

Contract Routing Form

printed on: 06/21/2021

ROUTING: Urgent Rush

Contract between: J.P. Cullen & Sons Inc.
and Dept. or Division: Engineering Division
Name/Phone Number:

Project: Metro Transit Phase 3A- Maintenance and Driver Facility

Contract No.: 8981
Enactment No.: RES-21-00422
Dollar Amount: 9,412,947.00

File No.: 11230
Enactment Date: 06/18/2021

(Please DATE before routing)

Signatures Required	Date Received	Date Signed
City Clerk	6/22/21	6/22/21
Director of Civil Rights	6/25/21	6/25/21
Risk Manager	6/28/2021	6/28/2021 RN
Finance Director	6/28/2021	6/25/2021
City Attorney	6/28/2021	6/28/2021
Mayor	6/28/2021	6/30/2021

Please return signed Contracts to the City Clerk's Office
Room 103, City-County Building for filing.

Original + 2 Copies

06/21/2021 16:17:50 enjls - Jon Evans 243-5893



Demographics

Company Name: Travelers Casually and Surety Company of America	NAIC CoCode: 31194	Short Name:
SBS Company Number: 54218780	State of Domicile: Connecticut	FEIN: 06-0907370
Domicile Type: Foreign	Organization Type: Stock	Country of Domicile: United States
NAIC Group Number: 3548 - Travelers Grp		Date of Incorporation: 07/18/1974
Merger Flag: Yes		

Address

Business Address ONE TOWER SQ HARTFORD, CT 06183 United States	Mailing Address ONE TOWER SQ HARTFORD, CT 06183 United States	Statutory Home Office Address ONE TOWER SQ HARTFORD, CT 06183 United States	Main Administrative Office Address ONE TOWER SQ HARTFORD, CT 06183 United States
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Phone, Email, Website

Phone	Email	Website						
<table border="1"> <thead> <tr> <th>Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Business Primary Phone</td> <td>(860) 277-0111</td> </tr> <tr> <td>Fax Phone</td> <td>(844) 816-9447</td> </tr> </tbody> </table>	Type	Number	Business Primary Phone	(860) 277-0111	Fax Phone	(844) 816-9447	No results found.	No results found.
Type	Number							
Business Primary Phone	(860) 277-0111							
Fax Phone	(844) 816-9447							

Company Type

Company Type: Property and Casually	Status Reason:	Status Date: 09/10/1975
Status: Active	Legacy State ID: 110846	Expiration Date:
Effective Date: 07/01/1997	Approval Date:	File Date:
Issue Date: 09/10/1975	Article No:	COA Number:
Articles of Incorporation Received: No		

Appointments

Show entries Showing 1 to 2 of 4767 entries

Licensee Name	License Number	NPN	License Type	Line of Authority	Appointment Date	Effective Date	Expiration Date
TINA DOMASK	17584644	17584644	Intermediary (Agent) Individual	Casualty	12/22/2015	02/19/2021	03/15/2022
TINA DOMASK	17584644	17584644	Intermediary (Agent) Individual	Property	12/22/2015	02/19/2021	03/15/2022

Line Of Business

Show entries Showing 1 to 10 of 11 entries

Line of Business	Citation Type	Effective Date
Aircraft	Aircraft	09/10/1975
Automobile	Automobile	09/10/1975
Credit Insurance	Credit Insurance	09/10/1975
Disability Insurance	Disability Insurance	09/10/1975
Fidelity Insurance	Fidelity Insurance	09/10/1975
Fire, Inland Marine and Other Property Insurance	Fire, Inland Marine and Other Property Insurance	09/10/1975
Liability and Incidental Medical Expense Insurance (other than automobile)	Liability and Incidental Medical Expense Insurance (other than automobile)	09/10/1975
Miscellaneous	Miscellaneous	09/10/1975
Ocean Marine Insurance	Ocean Marine Insurance	09/10/1975
Surety Insurance	Surety Insurance	09/10/1975

Contact

Contact Type	Preferred Name	Name	E-mail	Phone	Address



City of Madison

City of Madison
Madison, WI 53703
www.cityofmadison.com

Legislation Details (With Text)

File #: 65646 **Version:** 1 **Name:** Awarding Public Works Contract No. 8981, Madison Metro Transit Phase 3A - Maintenance and Driver Facility Improvements.

Type: Resolution **Status:** Passed

File created: 5/24/2021 **In control:** Engineering Division

On agenda: 6/15/2021 **Final action:** 6/15/2021

Enactment date: 6/18/2021 **Enactment #:** RES-21-00422

Title: Awarding Public Works Contract No. 8981, Madison Metro Transit Phase 3A - Maintenance and Driver Facility Improvements. (6th AD)

Sponsors: BOARD OF PUBLIC WORKS

Indexes:

Code sections:

Attachments: 1. 8981BidOpeningTab.pdf, 2. 8981 contract.pdf

Date	Ver.	Action By	Action	Result
6/15/2021	1	COMMON COUNCIL	Adopt Under Suspension of Rules 2.04, 2.05, 2.24, and 2.25	Pass
6/2/2021	1	BOARD OF PUBLIC WORKS	RECOMMEND TO COUNCIL TO ADOPT UNDER SUSPENSION OF RULES 2.04, 2.05, 2.24, & 2.25 - REPORT OF OFFICER	Pass
5/24/2021	1	Engineering Division	Refer	

The proposed resolution awards a contract for improvements to the Metro Transit facility at 1101 East Washington Avenue. A 2018 study detailed a 4-phase construction plan for the Metro facility and this contract represents phase 3A. The contract price totals \$10,165,980. The 2021 adopted capital budget includes funding of \$10,805,000 within Metro's Facilities Repairs and Improvement program for the phase 3A remodel. No additional appropriation required.

Awarding Public Works Contract No. 8981, Madison Metro Transit Phase 3A - Maintenance and Driver Facility Improvements. (6th AD)

BE IT RESOLVED, that the following low bids for miscellaneous improvements be accepted and that the Mayor and City Clerk be and are hereby authorized and directed to enter into a contract with the low bidder contained herein, subject to the Contractor's compliance with Section 39.02 of the Madison General Ordinances concerning compliance with the Affirmative Action provisions **and subject to the Contractor's compliance with Section 33.07 of the Madison General Ordinances regarding Best Value Contracting:**

BE IT FURTHER RESOLVED, that the funds be encumbered to cover the cost of the projects contained herein.

See attached document (Contract No. 8981) for itemization of bids.

EN- Steve Danner-Rivers

PROJECT

CONTRACTOR

AMOUNT OF BID

CONTRACT NO. 8981

METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS

J. P. CULLEN & SONS, INC.

\$9,412,947.00

Acct. No. 11230-85-140-114403: 53310 (90924)
Contingency 8%±

\$9,412,947.00
753,033.00

GRAND TOTAL

\$10,165,980.00

\$9,412,947.00
ORIGINAL

BID OF J. P. CULLEN & SONS, INC.

2021

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY
IMPROVEMENTS

CONTRACT NO. 8981

PROJECT NO. 11230

MUNIS NO. 11230-85-140-114403

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON JUNE 15, 2021

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

<https://bidexpress.com/login>

**METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY
IMPROVEMENTS
CONTRACT NO. 8981**

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This Proposal, and Agreement have
been prepared by:

**CITY ENGINEERING DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN**

Robert F. Phillips

Robert F. Phillips, P.E., City Engineer

RFP: JCE

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

**REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION
CITY OF MADISON, WISCONSIN**

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
CONTRACT NO.:	8981
SBE GOAL	20%
BID BOND	5%
PRE BID BUILDING TOUR (9:00 A.M.)	WEDNESDAY APRIL 28, 2021
DEADLINE FOR BIDDER QUESTIONS, CLARIFICATIONS AND REQUESTS FOR SUBSTITUTIONS (2:00 P.M.)	THURSDAY MAY 6, 2021
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	THURSDAY MAY 13, 2021
SBE PRE BID MEETING	See Pre Bid Meeting info below
BID SUBMISSION (2:00 P.M.)	THURSDAY MAY 20, 2021
BID OPEN (2:30 P.M.)	THURSDAY MAY 20, 2021
PUBLISHED IN WSJ	FRIDAY APRIL 15, 22, 29 & MAY 6, 2021

PRE BID BUILDING /SITE TOUR:

The City of Madison is conducting one (1) Non mandatory Pre-Bid Walkthrough session at Metro Transit at 1101 E. Washington Ave, during the bidding period of this contract. All contractors are invited to attend a short introductory meeting, a short guided tour of the project area, and then will be allowed to more thoroughly review the project area at their own pace. Please note: this is an occupied building with constant bus traffic and requires high visibility vests to be worn at all times. This is the only time contractors shall be provided with guided access to non-public areas in the scope of the project. Masks and social distancing are mandatory if attending the Pre-Bid Walkthrough.

Additional site visits on a case by case basis are not guaranteed and can be scheduled by contacting the City Project Manager. Contractors may also review public areas at any time during normal working hours, but request that you contact the City Project Manager at least one working day prior to the visit, so staff at the building can be notified that visitors may be present.

Staff from Mead & Hunt, City Project Manager (CPM), and City Construction Manager (CCM) will be on hand to take questions related to the plans and specifications. Questions shall be recorded and responded to in the form of a published addendum.

BIDDER QUESTIONS, CLARIFICATIONS, AND REQUESTS FOR SUBSTITUTIONS:

If needed, Mead & Hunt and the CPM shall publish addenda to respond to any questions, clarifications, or requests for substitutions.

- Any questions or requests for clarifications regarding plans and specifications shall be submitted directly to Mead & Hunt and the CPM. Responses that change the contract scope and/or schedule will be published by Mead & Hunt and/or the CPM in the form of a bidding addendum.
- Requests for substitutions shall be done according to Specification 01 25 13 - Product Substitution Procedures and other specifications as necessary. Use the form at the end of the specification. Contractors are cautioned to review all specifications and note whether substitutions for specific products will be allowed or not.
- See the contract contact information at the end of Section D-Special Provisions for contact information. All questions and/or substitution requests shall be sent via email, reference Metro Transit Phase 3A – Maintenance and Driver Facility Improvements City Contract #8981.

- **The deadline for receiving all questions, clarifications, and requests for substitutions shall be as indicated in the schedule table above.**

SBE PRE BID MEETING: Small Business Enterprise Pre-Bid Meetings are not being held in person at this time. Contractors can schedule one-on-one phone calls with Juan Pablo Torres Meza in Affirmative Action to count towards good faith efforts. Juan Pablo can be reached at 608-261-9162 or by email, jtorresmeza@cityofmdison.com.

PREQUALIFICATION APPLICATION: Forms are available on our website, www.cityofmadison.com/business/pw/forms.cfm. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED: by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

The process for submission of bids has not changed. Bids may be submitted on line through Bid Express or in person at 1600 Emil St. Please note that the doors at 1600 Emil St. are locked, but there is a sign with phone numbers on the door. Please call one of the numbers and staff will come to the door to get your bid. Until further notice, the bid openings will be closed to the public to support the guidance of social distancing as the City responds to responsively to COVID-19 impacts to services. The bids will be posted on line after the bid opening. If you have any questions, please call Alane Boutelle at 608-267-1197, or John Fahrney at 608-266-9091.

STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2021 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, www.cityofmadison.com/Business/PW/specs.cfm.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a). of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as

defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express (www.bidexpress.com). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond (City of Madison form) equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

MINOR DISCREPENCIES

Bidder is responsible for submitting all forms necessary for the City to determine compliance with State and City bidding requirements. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion or performance of the contract.

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an

Building Demolition

- 101 Asbestos Removal
 120 House Mover

- 110 Building Demolition

Street, Utility and Site Construction

- 201 Asphalt Paving
 205 Blasting
 210 Boring/Pipe Jacking
 215 Concrete Paving
 220 Con. Sidewalk/Curb & Gutter/Misc. Flat Work
 221 Concrete Bases and Other Concrete Work
 222 Concrete Removal
 225 Dredging
 230 Fencing
 235 Fiber Optic Cable/Conduit Installation
 240 Grading and Earthwork
 241 Horizontal Saw Cutting of Sidewalk
 242 Infrared Seamless Patching
 245 Landscaping, Maintenance
 246 Ecological Restoration
 250 Landscaping, Site and Street
 251 Parking Ramp Maintenance
 252 Pavement Marking
 255 Pavement Sealcoating and Crack Sealing
 260 Petroleum Above/Below Ground Storage Tank Removal/Installation
 262 Playground Installer

- 265 Retaining Walls, Precast Modular Units
 270 Retaining Walls, Reinforced Concrete
 275 Sanitary, Storm Sewer and Water Main Construction
 276 Sawcutting
 280 Sewer Lateral Drain Cleaning/Internal TV Insp.
 285 Sewer Lining
 290 Sewer Pipe Bursting
 295 Soil Borings
 300 Soil Nailing
 305 Storm & Sanitary Sewer Laterals & Water Svc.
 310 Street Construction
 315 Street Lighting
 318 Tennis Court Resurfacing
 320 Traffic Signals
 325 Traffic Signing & Marking
 332 Tree pruning/removal
 333 Tree, pesticide treatment of
 335 Trucking
 340 Utility Transmission Lines including Natural Gas, Electrical & Communications
 399 Other _____

Bridge Construction

- 501 Bridge Construction and/or Repair

Building Construction

- 401 Floor Covering (including carpet, ceramic tile installation, rubber, VCT)
 402 Building Automation Systems
 403 Concrete
 404 Doors and Windows
 405 Electrical - Power, Lighting & Communications
 410 Elevator - Lifts
 412 Fire Suppression
 413 Furnishings - Furniture and Window Treatments
 415 General Building Construction, Equal or Less than \$250,000
 420 General Building Construction, \$250,000 to \$1,500,000
 425 General Building Construction, Over \$1,500,000
 428 Glass and/or Glazing
 429 Hazardous Material Removal
 430 Heating, Ventilating and Air Conditioning (HVAC)
 433 Insulation - Thermal
 435 Masonry/Tuck pointing

- 437 Metals
 440 Painting and Wallcovering
 445 Plumbing
 450 Pump Repair
 455 Pump Systems
 460 Roofing and Moisture Protection
 464 Tower Crane Operator
 461 Solar Photovoltaic/Hot Water Systems
 465 Soil/Groundwater Remediation
 466 Warning Sirens
 470 Water Supply Elevated Tanks
 475 Water Supply Wells
 480 Wood, Plastics & Composites - Structural & Architectural
 499 Other _____

State of Wisconsin Certifications

- 1 Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
 2 Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
 3 Class 7 Blaster - Blasting Operations and Activities for structures greater than 15' in height, bridges, towers, and any of the objects or purposes listed as "Class 5 Blaster or Class 6 Blaster".
 4 Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
 5 Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
 6 Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
 7 Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
 8 State of Wisconsin Master Plumbers License.

SECTION B: PROPOSAL

Please refer to the
Bid Express Website
at <https://bidexpress.com>
look up contract number
and go to
Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders City of Madison SBE Program Information

2 Small Business Enterprise (SBE) Program Information

2.1 Policy and Goal

The City of Madison reaffirms its policy of nondiscrimination in the conduct of City business by maintaining a procurement process which remains open to all who have the potential and ability to sell goods and services to the City. It is the policy of the City of Madison to allow Small Business Enterprises (SBE) maximum feasible opportunity to participate in City of Madison contracting. The bidder acknowledges that its bid has been submitted in accordance with the SBE program and is for the public's protection and welfare.

Please refer to the "ADVERTISEMENT FOR BIDS" for the goal for the utilization of SBEs on this project. SBEs may participate as subcontractors, vendors and/or suppliers, which provide a commercially useful function. The dollar value for SBE suppliers or 'materials only' vendors shall be discounted to 60% for purposes of meeting SBE goals.

A bidder which achieves or exceeds the SBE goal will be in compliance with the SBE requirements of this project. In the event that the bidder is unable to achieve the SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Failure to either achieve the goal or demonstrate a good faith effort to do so will be grounds for the bidder being deemed a non-responsible contractor ineligible for award of this contract.

A bidder may count towards its attainment of the SBE goal only those expenditures to SBEs that perform a commercially useful function. For purposes of evaluating a bidder's responsiveness to the attainment of the SBE goal, the contract participation by an SBE is based on the percentage of the total base bid proposed by the Contractor. The total base bid price is inclusive of all addenda.

Work performed by an SBE firm in a particular transaction can be counted toward the goal only if it involves a commercially useful function. That is, in light of industry practices and other relevant considerations, does the SBE firm have a necessary and useful role in the transaction, of a kind for which there is a market outside the context of the SBE Program, or is the firm's role a superfluous step added in an attempt to obtain credit towards goals? If, in the judgment of the Affirmative Action Division, the SBE firm will not perform a commercially useful function in the transaction, no credit towards goals will be awarded.

The question of whether a firm is performing a commercially useful function is completely separate from the question of whether the firm is an eligible SBE. A firm is eligible if it meets the definitional criteria and ownership and control requirements, as set forth in the City of Madison's SBE Program.

If the City of Madison determines that the SBE firm is performing a commercially useful function, then the City of Madison must then decide what that function is. If the commercially useful function is that of an SBE vendor / supplier that regularly transacts business with the respective product, then the City of Madison will count 60% of the value of the product supplied toward SBE goals.

To be counted, the SBE vendor / supplier must be engaged in selling the product in question to the public. This is important in distinguishing an SBE vendor / supplier, which has a regular trade with a variety of customers, from a firm which performs supplier-like functions on an ad hoc basis or for only one or two contractors with whom it has a special relationship.

A supplier of bulk goods may qualify as an eligible SBE vendor / supplier if it either maintains an inventory or owns or operates distribution equipment. With respect to the distribution equipment; e.g., a fleet of trucks, the term "operates" is intended to cover a situation in which the supplier leases the equipment on a regular basis for its entire business. It is not intended to cover a situation in which the firm simply provides drivers for trucks owned or leased by another party; e.g., a prime contractor, or leases such a party's trucks on an ad hoc basis for a specific job.

If the commercially useful function being performed is not that of a qualified SBE vendor / supplier, but rather that of delivery of products, obtaining bonding or insurance, procurement of personnel, acting as a broker or manufacturer's representative in the procurement of supplies, facilities, or materials, etc., only the fees or commissions will apply towards the goal.

For example, a business that simply transfers title of a product from manufacturer to ultimate purchaser; e. g., a sales representative who re-invoices a steel product from the steel company to the Contractor, or a firm that puts a product into a container for delivery would not be considered a qualified SBE vendor / supplier. The Contractor would not receive credit based on a percentage of the cost of the product for working with such firms.

Concerning the use of services that help the Contractor obtain needed supplies, personnel, materials or equipment to perform a contract: only the fee received by the service provider will be counted toward the goal. For example, use of a SBE sales representative or distributor for a steel company, if performing a commercially useful function at all, would entitle the Contractor receiving the steel to count only the fee paid to the representative or distributor toward the goal. This provision would also govern fees for professional and other services obtained expressly and solely to perform work relating to a specific contract.

Concerning transportation or delivery services: if an SBE trucking company picks up a product from a manufacturer or a qualified vendor / supplier and delivers the product to the Contractor, the commercially useful function it is performing is not that of a supplier, but simply that of a transporter of goods. Unless the trucking company is itself the manufacturer or a qualified vendor / supplier in the product, credit cannot be given based on a percentage of the cost of the product. Rather, credit would be allowed for the cost of the transportation service.

The City is aware that the rule's language does not explicitly mention every kind of business that may contribute work on this project. In administering these programs, the City would, on a case-by-case basis, determine the appropriate counting formula to apply in a particular situation.

2.2 Contract Compliance

Questions concerning the SBE Program shall be directed to the Contract Compliance Officer of the City of Madison Department of Civil Rights, Affirmative Action Division, 210 Martin Luther King, Jr. Blvd., Room 523, Madison, WI 53703; telephone (608) 266-4910.

2.3 Certification of SBE by City of Madison

The Affirmative Action Division maintains a directory of SBEs which are currently certified as such by the City of Madison. Contact the Contract Compliance Officer as indicated in Section 2.2 to receive a copy of the SBE Directory or you may access the SBE Directory online at www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise.

All contractors, subcontractors, vendors and suppliers seeking SBE status must complete and submit the **Targeted Business Certification Application** to the City of Madison Affirmative Action Division by the time and date established for receipt of bids. A copy of the Targeted Business Certification Application is available by contacting the Contract Compliance Officer at the address and telephone indicated in Section 2.2 or you may access the Targeted Business Certification Application online at www.cityofmadison.com/civil-rights/contract-compliance/targeted-business-enterprise-programs/targeted-business-enterprise. Submittal of the Targeted Business Certification Application by the time specified does not guarantee that the applicant will be certified as a SBE eligible to be utilized towards meeting the SBE goal for this project.

2.4 Small Business Enterprise Compliance Report

2.4.1 Good Faith Efforts

Bidders shall take all necessary affirmative steps to assure that SBEs are utilized when possible and that the established SBE goal for this project is achieved. A contractor who self performs a portion of the work, and is pre-qualified to perform that category of work, may subcontract that portion of the work, but shall not be required to do so. When a bidder is unable to achieve the established SBE goal, the bidder must demonstrate that a good faith effort to do so was made. Such a good faith effort should include the following:

- 2.4.1.1 Attendance at the pre-bid meeting.
- 2.4.1.2 Using the City of Madison's directory of certified SBEs to identify SBEs from which to solicit bids.
- 2.4.1.3 Assuring that SBEs are solicited whenever they are potential sources.
- 2.4.1.4 Referring prospective SBEs to the City of Madison Affirmative Action Division for certification.
- 2.4.1.5 Dividing total project requirements into smaller tasks and/or quantities, where economically feasible, to permit maximum feasible SBE participation.
- 2.4.1.6 Establishing delivery schedules, where requirements permit, which will encourage participation by SBEs.
- 2.4.1.7 Providing SBEs with specific information regarding the work to be performed.
- 2.4.1.8 Contacting SBEs in advance of the deadline to allow such businesses sufficient time to prepare a bid.
- 2.4.1.9 Utilizing the bid of a qualified and competent SBE when the bid of such a business is deemed reasonable (i.e. 5% above the lowest bidder), although not necessarily low.
- 2.4.1.10 Contacting SBEs which submit a bid, to inquire about the details of the bid and confirm that the scope of the work was interpreted as intended.
- 2.4.1.11 Completion of Cover Page (page C-6), Summary Sheet (page C-7) and SBE Contact Reports (pages C-8 and C9) if applicable.

2.4.2 Reporting SBE Utilization and Good Faith Efforts

The Small Business Enterprise Compliance Report is to be submitted by the bidder with the bid: This report is due by the specified bid closing time and date. Bids submitted without a completed SBE Compliance Report as outlined below may be deemed non-responsible and the bidder ineligible for award of this contract. Notwithstanding any language to the contrary contained herein, the City may exercise its discretion to allow bidders to correct or supplement submissions after bid opening, if the minor discrepancy, bid irregularity or omission is insignificant and not one related to price, quality, quantity, time of completion, performance of the contract, or percentage of SBE utilization.

2.4.2.1 If the Bidder meets or exceeds the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.1.1 **Cover Page**, Page C-6; and

2.4.2.1.2 **Summary Sheet**, C-7.

2.4.2.2 If the bidder does not meet the goal established for SBE utilization, the Small Business Enterprise Compliance Report shall consist of the following:

2.4.2.2.1 **Cover Page**, Page C-6;

2.4.2.2.2 **Summary Sheet**, C-7; and

2.4.2.2.3 **SBE Contact Report**, C-8 and C-9. (A separate Contact Report must be completed for each applicable SBE which is not utilized.)

2.5 Appeal Procedure

A bidder which does not achieve the established goal and is found non-responsible for failure to demonstrate a good faith effort to achieve such goal and subsequently denied eligibility for award of contract may appeal that decision to the Small Business Enterprises Appeals Committee. All appeals shall be made in writing, and shall be delivered to and received by the City Engineer no later than 4:30 PM on the third business day following the bidder's receipt of the written notification of ineligibility by the Affirmative Action Division Manager. Postmark not acceptable. The notice of appeal shall state the basis for the appeal of the decision of the Affirmative Action Division Manager. The Appeal shall take place in accordance with Madison General Ordinance 33.54.

2.6 SBE Requirements After Award of the Contract

The successful bidder shall identify SBE subcontractors, suppliers and vendors on the subcontractor list in accordance with the specifications. The Contractor shall submit a detailed explanation of any variances between the listing of SBE subcontractors, vendors and/or suppliers on the subcontractor list and the Contractor's SBE Compliance Report for SBE participation.

No change in SBE subcontractors, vendors and/or suppliers from those SBEs indicated in the SBE Compliance Report will be allowed without prior approval from the Engineer and the Affirmative Action Division. The contractor shall submit in writing to the City of Madison Affirmative Action Division a request to change any SBE citing specific reasons which necessitate such a change. The Affirmative Action Division will use a general test of reasonableness in approving or rejecting the contractor's request for change. If the request is approved, the Contractor will make every effort to utilize another SBE if available.

The City will monitor the project to ensure that the actual percentage commitment to SBE firms is carried out.

2.7 SBE Definition and Eligibility Guidelines

A Small Business Enterprise is a business concern awarded certification by the City of Madison. For the purposes of this program a Small Business Enterprise is defined as:

- A. An independent business operated under a single management. The business may not be a subsidiary of any other business and the stock or ownership may not be held by any individual or any business operating in the same or a similar field. In determining whether an entity qualifies as a SBE, the City shall consider all factors relevant to being an independent business including, but not limited to, the date the business was established, adequacy of its resources for the work in which it proposes to involve itself, the degree to which financial, equipment leasing and other relationships exist with other ineligible firms in the same or similar lines of work. SBE owner(s) shall enjoy the customary incidents of ownership and shall share in the risks and profits commensurate with their enjoyment interests, as demonstrated by an examination of the substance rather than form or arrangements that may be reflected in its ownership documents.
- B. A business that has averaged no more than \$4.0 million in annual gross receipts over the prior three year period and the principal owner(s) do not have a personal net worth in excess of \$1.32 million.

Firm and/or individuals that submit fraudulent documents/testimony may be barred from doing business with the City and/or forfeit existing contracts.

SBE certification is valid for one (1) year unless revoked.

SECTION D: SPECIAL PROVISIONS

METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS CONTRACT NO. 8981

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.9: BIDDER'S UNDERSTANDING

Tax Exempt Status. Effective with all contracts executed after January 1, 2016, the sales price from the sale, storage, use or other consumption of tangible personal property that is used in conjunction with a public works improvement for a tax exempt entity (including the City of Madison), is exempt from State sales tax. Said property must become a component of the project owned by the tax exempt entity and includes: any building; shelter; parking lot; parking garage; athletic field; storm sewer; water supply system; or sewerage and waste water treatment facility, but does not include a highway, street or road.

The contractor shall ensure that the exemption for sales and use tax available under Wis. Stat. Sec.77.54(9m) applies where available. The contractor shall provide all necessary documentation as required by the State of Wisconsin and the City of Madison to comply with this exemption.

See link to [Wisconsin Department of Revenue Tax Bulletin, January 2016, Number 192](#) and [2015 Wis. Act 126](#) for additional information.

Contractors wishing to sub contract with a non-union Small Business Enterprise (SBE) may encourage the non-union SBE subcontractor to consider entering into a Project Labor Agreement with the subject union specific to the Metro Transit Phase 3A – Maintenance and Driver Facility Improvements, to enable the General Contractor to count the participation of the non-union SBE for SBE Goal achievement. Interested SBE Subcontractors may contact the Executive Director, Building and Construction Trades Council of South Central Wisconsin at btrades@sbcglobal.net or at (608) 256-3161 to discuss entering into such an agreement.

SECTION 102.11: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than \$65,000 for a single trade contract; or equal to or greater than \$318,000 for a multi-trade contract pursuant to MGO 33.07(7).

ARTICLE 103: AWARD AND EXECUTION OF THE CONTRACT

The awarded Contractor shall completely execute the signing of all contract documents and submit them to City Engineering (Attn: Alane Boutelle, 1600 Emil Street, Madison, WI 53703) prior to **12:00pm on Thursday, June 17, 2021**. Delays by the Contractor in submitting the required completed contract documents will not adjust the project completion date. Payment and Performance Bonds shall be dated no sooner than **Wednesday, June 16, 2021**.

The bidder must completely fill in the base bid and the alternate. After the initial bid advertisement and prior to bid opening the City will establish a Construction Budget Dollar Value. If any responsible bidder submits a base bid plus alternate one (1) that is below the Construction Budget Dollar Value, the City will award the contract based on the base bid plus alternate one (1). If no responsible bidder submits a base bid plus alternate one (1) that is below the Construction Budget Dollar Value, the City will award the contract based on the base bid only. The City shall have the right to proceed or not proceed with

alternate one (1) regardless of how the bid was awarded. The City shall have the right to reject all bids regardless of the value of the bids submitted.

ARTICLE 104: SCOPE OF WORK

This contract is for the Metro Transit Phase 3A – Maintenance and Driver Facility Improvements (approx. 55,000 sf) at 1101 E. Washington Ave as identified in drawings. Work includes phasing to allow for continuous owner occupancy and 24-hour operations. The improvement work includes, but is not limited to, selective demolition; structural modifications; below grade piping, MEP FP T upgrades including a new generator, new electrical service, and new water service; new maintenance equipment and lifts; some site civil work to facilitate the remodeling and new generator; and new finished spaces to support drivers and maintenance staff (bathrooms, break room, training room, parts room and offices).

The roof on this facility was replaced in 2018 and is under warranty. Roof patching work is to comply with manufacturer requirements per **Exhibit C – Specification Volume 1 Dated April 8, 2021 – Section 07 01 53**

The scope of work includes the furnishing of all labor, materials, equipment, tools, and other services necessary to complete the work in accordance with the intent of this contract. The Contractor shall use properly functioning equipment capable of performing the tasks required. The Contractor shall furnish workers who perform quality work and who are experienced and knowledgeable in the work proposed.

SECTION 104.1: LANDS FOR WORK

General outlines for the Lands for Work for this contract are represented on the **Exhibit A– Plans Dated April 8, 2021** and generally include the interior, roof and a limited portion of the exterior of the property at 1101 E. Washington Ave. All use of the City Lands for Work – by the Contractor - shall be reviewed and approved by the City’s Construction Manager.

The Contractor for this Work must also coordinate the work so as not to interfere with Metro Transit operations. Vehicles can only be parked on site for deliveries. Onsite storage, staging and office space will be limited.

No tobacco product use is allowed on the Lands for Work.

SECTION 104.2: INTENT AND COORDINATION OF CONTRACT DOCUMENTS

The contract documents are complimentary of each other and consist of all of the following:

- The City Standard Specifications for Public Works Construction, 2021 Edition
- These Special Provisions including all plans and specifications as noted by the exhibits listed below.
- All Addenda to the bidding documents.

EXHIBITS FOR BIDDING PURPOSES:

- Exhibit A – Plans Volume 1 Dated April 8, 2021
- Exhibit B – Plans Volume 2 Dated April 8, 2021
- Exhibit C – Specification Volume 1 Dated April 8, 2021
- Exhibit D - Specification Volume 2 Dated April 8, 2021

SECTION 105.5: INSPECTION OF WORK

The Contractor shall coordinate directly with any and all regulatory agencies having jurisdiction over the licensing, permitting, and inspection of work as described in the construction documents.

All Contractors shall be familiar with Specification 01 45 16 – Field Quality Control Procedures regarding City of Madison policies and procedures for Quality Assurance and Quality Control.

SECTION 105.6: CONTRACTORS RESPONSIBILITY FOR WORK

The Contractor shall not take advantage of any discrepancy in the plans or specifications. This shall include but not be limited to apparent errors, omissions, and interpretations involving codes, regulations, and standards.

Any Contractor who identifies such a discrepancy during the bidding process shall notify Mead & Hunt and the City Project Manager (CPM) of the discrepancy prior to the "Questions and Clarifications Deadline" as noted in Section A of the bid documents.

Any Contractor who identifies such a discrepancy after the bidding process and/or after contract signing shall immediately notify Mead & Hunt, the CPM, and the CCM in writing and request clarification on how to proceed. See Specification 01 26 13 – Request for Information (RFI).

SECTION 105.7: CONTRACT DOCUMENTS

The General Contractor is responsible for reproducing all construction documents necessary to complete the Work at their own cost. This shall include plans, specifications, and addenda for the General Contractor and all Sub-contractors. The Contractor shall keep one copy of all drawings and Specifications on the project site, in good order, available to the Project Designers and all City representatives.

SECTION 105.9: SURVEYS, POINTS, AND INSTRUCTIONS

The General Contractor is responsible for providing all survey, benchmarks, points, and elevations required for this project.

SECTION 105.12: COOPERATION BY THE CONTRACTOR

Any Work outside the specified Lands for Work will need to be coordinated with CCM for City of Madison Engineering.

- Provide an anticipated work schedule including number of people, type of access, equipment, and duration. Schedule shall be supplied at least five (5) working days prior to the date access will be required.
- All tools, equipment, and materials shall be mobile and shall be moved back to within the Lands for Work at the end of each work day or otherwise coordinated with Metro Transit.
- All adjacent spaces will be hermetically sealed to minimize dust and debris from entering adjacent spaces. Any common areas including but limited to drive aisles, hallways, and roof access (if utilized) shall be cleaned of dust and debris at the end of each work day

All excessive noisy activities will need to be coordinated and scheduled with the CCM for City of Madison Engineering.

The General Contractor shall be responsible for the sequencing of the project.

The Contractor shall review all other specifications within the construction documents and Additional Reference Documents for other requirements and coordination of work associated with this contract.

SECTION 107.2: PROTECTION AND RESTORATION OF PROPERTY

The Contractor shall be responsible for the protection and restoration of all new and existing work according to Specification 01 76 00 – Protecting Installed Construction.

SECTION 108.2: PERMITS AND LICENSING

See 01 31 46 - Permits.

The Contractor is responsible for obtaining all required permits. The Contractor is not responsible for paying for the City Building, City HVAC, City Electrical, City Plumbing, Madison Fire Department Sprinkler and Madison Fire Department Fire Alarm permits. The Contractor is responsible for paying for other permits not explicitly stated here.

The Contractor shall be responsible for any fines issued due to non-compliance with the project permits.

SECTION 109.7: TIME OF COMPLETION

Work shall only begin after the contract is completely executed and the start work letter is received. It is anticipated that the start work letter shall be issued on or about **July 5, 2021**.

The Contractor shall have reached a level of Construction Closeout **NO LATER THAN Friday, August 26, 2022**

The Contractor shall review Specifications 01 29 76 - Progress Payment Procedures and 01 77 00 - Closeout Procedures and be completely familiar with the progress payment milestones and definitions related to construction closeout and contract closeout.

SECTION 109.9: LIQUIDATED DAMAGES

The fixed, agreed upon, liquidated damages for failure to complete all work within the Contract Time, shall be calculated in accordance with Article 109 of Standard Specifications, per working day.

NON STANDARD BID ITEMS

BID ITEM 90000 – BASE BID

DESCRIPTION: The BASE BID shall include the complete installation of all building, mechanical, site, and utility components; the accepted testing, and commissioning of all systems; and the completion, and turn-in of all deliverables as outlined in the plans and specifications.

METHOD OF MEASUREMENT: The BASE BID shall be measured as Lump Sum of the required construction and installations described in the plans and specifications. Partial Payments shall be requested as indicated in Specifications 01 29 73 - Schedule of Values and 01 29 76 - Progress Payment Procedures.

BASIS OF PAYMENT: The BASE BID shall be paid at the contract lump sum price. Partial payments shall be reviewed and authorized as described in the above referenced specifications.

BID ITEM 90001 – ALTERNATE 1

DESCRIPTION: ALTERNATE NO. 1: See Specification 012300 – Alternates and Drawings AD101F and A-101F. All Work Associated with Area F, First Floor only, as identified per Drawing G131.

METHOD OF MEASUREMENT: The ALTERNATE NO. 1 shall be measured as Lump Sum of the required construction and installations described in the plans and specifications. Partial Payments shall be requested as indicated in Specifications 01 29 73-Schedule of Values and 01 29 76-Progress Payment Procedures.

BASIS OF PAYMENT: The ALTERNATE NO. 1 shall be paid at the contract lump sum price. Partial payments shall be reviewed and authorized as described in the above referenced specifications.

POINTS OF CONTACT

We ask all Contractors with questions and concerns regarding the bidding documents shall contact the Project Architect by e-mail so we may properly log, track, and respond to all issues.

* Please reference **Metro Transit Phase 3A –Maintenance and Driver Facility Improvements #8981.**

The Project Architect for this contract is:

Mead & Hunt

Richard Lundeen, AIA

PH: 608-443-0529

Email: Richard.Lundeen@meadhunt.com

The City Project Manager (CPM) for this contract is:

City of Madison

Jon Evans, PE

PH: 608-243-5893

Email: jevans@cityofmadison.com



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Engineering Division
Robert F. Phillips, P.E., City Engineer
City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4751
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engineering@cityofmadison.com
www.cityofmadison.com/engineering

Deputy City Engineer
Gregory T. Fries, P.E.
Deputy Division Manager
Kathleen M. Cryan
Principal Engineer 2
John S. Fahrney, P.E.
Christopher J. Petykowski, P.E.
Janet Schmidt, P.E.
Principal Engineer 1
Christina M. Bachmann, P.E.
Mark D. Moder, P.E.
James M. Wolfe, P.E.
Facilities & Sustainability
Bryan Cooper, Principal Architect
Mapping Section Manager
Eric T. Pederson, P.S.
Financial Manager
Steven B. Danner-Rivers

May 6, 2021

NOTICE OF ADDENDUM
ADDENDUM NO. 1
City of Madison, Engineering Department

CONTRACT NO. 8981
METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS

This addendum is issued to modify, explain or correct the original Drawings, Specifications, or Contract Documents marked as *Metro Transit Phase 3A–Maintenance and Driver Facility Improvements, City of Madison, Contract #8981, as issued on April 8th, 2021* and is hereby made a part of the contract documents.

This addendum consists of the following documents:

Please attach these Addendum documents to the Drawings (Exhibits A and B), Specifications (Exhibits C and D), and Proposal Specifications in your possession.

Please note that Addendum 2 will contain technical addendum information and is expected to be published the week of May 10th, 2021

1. **GENERAL CONTRACT CONDITIONS**
 - A. The Bid date is to be changed from May 20th to May 27th, 2021.
2. **GENERAL QUESTIONS AND ANSWERS**
 - A. Pre-Bid Walk Through sign-in sheet from April 28th, 2021
3. **ACCEPTABLE EQUIVALENTS**
 - A. None
4. **SPECIFICATIONS**
 - A. None
5. **DRAWINGS**
 - A. None
6. **PROPOSAL AND CONTRACT SPECIFICATIONS**
 - A. Revised bid date – see revised page A1 of the Contract Specifications.



Please acknowledge this addendum in Section E on page E-1: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at <https://www.bidexpress.com/> and the City of Madison web site at <http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 to receive the material by another method.

For questions regarding this bid, contact:

Mead & Hunt, Inc.

Rich Lundeen, AIA, Project Manager
PH: 608-443-0529
Email: richard.lundeen@meadhunt.com

City of Madison

Jon Evans, PE, Project Manager
PH: 608-243-5893
Email: jevans@cityofmadison.com

Sincerely,

A handwritten signature in black ink, appearing to read "Robert F. Phillips".

for:

Robert F. Phillips, P.E., City Engineer

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
CONTRACT NO.:	8981
SBE GOAL	20%
BID BOND	5%
PRE BID BUILDING TOUR (9:00 A.M.)	WEDNESDAY APRIL 28, 2021
DEADLINE FOR BIDDER QUESTIONS, CLARIFICATIONS AND REQUESTS FOR SUBSTITUTIONS (2:00 P.M.)	THURSDAY MAY 6, 2021
PREQUALIFICATION APPLICATION DUE (2:00 P.M.)	THURSDAY MAY 20, 2021
SBE PRE BID MEETING	See Pre Bid Meeting info below
BID SUBMISSION (2:00 P.M.)	THURSDAY MAY 27, 2021
BID OPEN (2:30 P.M.)	THURSDAY MAY 27, 2021
PUBLISHED IN WSJ	FRIDAY APRIL 15, 22, 29 & MAY 6, 13, 20 2021

PRE BID BUILDING /SITE TOUR:

The City of Madison is conducting one (1) Non mandatory Pre-Bid Walkthrough session at Metro Transit at 1101 E. Washington Ave, during the bidding period of this contract. All contractors are invited to attend a short introductory meeting, a short guided tour of the project area, and then will be allowed to more thoroughly review the project area at their own pace. Please note: this is an occupied building with constant bus traffic and requires high visibility vests to be worn at all times. This is the only time contractors shall be provided with guided access to non-public areas in the scope of the project. Masks and social distancing are mandatory if attending the Pre-Bid Walkthrough.

Additional site visits on a case by case basis are not guaranteed and can be scheduled by contacting the City Project Manager. Contractors may also review public areas at any time during normal working hours, but request that you contact the City Project Manager at least one working day prior to the visit, so staff at the building can be notified that visitors may be present.

Staff from Mead & Hunt, City Project Manager (CPM), and City Construction Manager (CCM) will be on hand to take questions related to the plans and specifications. Questions shall be recorded and responded to in the form of a published addendum.

BIDDER QUESTIONS, CLARIFICATIONS, AND REQUESTS FOR SUBSTITUTIONS:

If needed, Mead & Hunt and the CPM shall publish addenda to respond to any questions, clarifications, or requests for substitutions.

- Any questions or requests for clarifications regarding plans and specifications shall be submitted directly to Mead & Hunt and the CPM. Responses that change the contract scope and/or schedule will be published by Mead & Hunt and/or the CPM in the form of a bidding addendum.
- Requests for substitutions shall be done according to Specification 01 25 13 - Product Substitution Procedures and other specifications as necessary. Use the form at the end of the specification. Contractors are cautioned to review all specifications and note whether substitutions for specific products will be allowed or not.
- See the contract contact information at the end of Section D-Special Provisions for contact information. All questions and/or substitution requests shall be sent via email, reference Metro Transit Phase 3A – Maintenance and Driver Facility Improvements City Contract #8981.

Madison Metro Transit Phase 3A - Maintenance and Driver Improvements

Contract 8981

Pre-Bid Building Tour

Wednesday, April 28, 2021, 9:00 am

ATTENDEES

PLEASE SIGN-IN

NAME	COMPANY	EMAIL	PHONE
Lance Egner	midwest Equipment	midwestequipmentspecialist@gmail	608-838-8151
MATT LEUNEMANN	STERILE KOOL	matl@stertl-kool.com	410 643 9001
Pete Lurbeer	Mid Start	Peters, Lurbeer@midstart.com	608.395.7191
Carl Klein	Ram Jack Wisconsin	carlk@ramjackwisconsin.com	920.450.7030
JACOB CATES	JOE DANIELS	JCATES@DANIELSCO.COM	608-271-4800
Tim Martin	Fluo Aire Dynamics	tim.martin@FAADCORR.com	414.242.9201
JR SZABO	Ahern	jszabo@JFAhern.com	608 354 4612
KEVIN JUDY	INTEGEE BLDG SYSTEMS	kevin@ibsystemsinc.com	608-668-3501
Thomas McCleley	Piper Power	Thomas.McCleley@Piperpower.com	608-289-6411
ROBERT KAPSNER	Mega Hunt	robert.kapsner@megahunt.com	608 877 445 0510

~~PTZ LINDSEY~~

"

Madison Metro Transit Phase 3A - Maintenance and Driver Improvements

Contract 8981

Pre-Bid Building Tour

Wednesday, April 28, 2021, 9:00 am

ATTENDEES
PLEASE SIGN-IN

Math Hewitt	HJ Rutzborn	mathew@hijrutzborn.com	756-3900
Chio matty	METCO	cmatty@metcofb.com	604-2945
Jeremy DeBeer	Van Ert	jdebeer@ward.com	385-9008
Jason Pierson	TERRA	JPierson@whyterra.com	608-396-1125
Sean Gibbons	TERRA	Sgibbons@whyterra.com	608-210-3913
Garvin Jesmer	Tri-North	gjjesmer@tri-north.com	608 204 7239
Robison Rutzborn	Harbold	brian@hartwigsplumbing.com	815.560.1323
Jason Harvad	J. M Harvad	jharvad@charter.net	1-608-751-7369
SCOTT BOTTA	J.M. Harvad	sbottam@harvad.com	608-681-4903
Kyle Wehrwein	Hooper Corporation	KWehrwein@hooper.corp.com	608 201-5807
Shane Rogoff	KVA Electric	Shane@kva-electric.com	608-475-9708

MIKE VOSS
JOSH PEARSON
DAVID BARAN

MILTON
JP CURRIN
JP CURRIN

ESTIMATING @ MILTON-CONSTRUCTION.COM
JOSH. PEARSON @ JPCURRIN.COM
DAVID. BARAN @ JPCURRIN.COM

920-969-7341
608-421-3410
608-754-6601

Madison Metro Transit Phase 3A - Maintenance and Driver Improvements

Contract 8981

Pre-Bid Building Tour

Wednesday, April 28, 2021, 9:00 am

ATTENDEES

PLEASE SIGN-IN

MIKE SCHWARTZ	USA FIRE PROTECTION	920-378-0941	MIKE.SCHWARTZ@USAFIRE.US
LeRoy Nordmeyer	Walt's Petrol	715-370-0138	loroy@walthepetrol.com
Jordan Quackebuss	SF Ahern	608-234-3998	jquackebuss@sfahern.com
BRIAN THESBOLD	FOX AGENSSION	608-663-6244	Brian.Thesbold@foxagency.com
Chryane Brandt	HM Brandt Dmco	262-538-1548 / 414-397-8908	estimating@humboldt.com
MITCH COOPER	GHAG	608-212-1091	MCOOPER@GENERALHENTZ.COM
Eric Delker	SES Engineers	608 444-3934	edelkers@sesengineers.com
Bill Handt	Alliance Dmco	847 783 6585	Brandt@AllianceSecuring.com



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Deputy Division Manager
Kathleen M. Cryan
Principal Engineer 2
John S. Fahrney, P.E.
Christopher J. Petykowski, P.E.
Janet Schmidt, P.E.
Principal Engineer 1
Christina M. Bachmann, P.E.
Mark D. Moder, P.E.
James M. Wolfe, P.E.
Facilities & Sustainability
Bryan Cooper, Principal Architect
Mapping Section Manager
Eric T. Pederson, P.S.
Financial Manager
Steven B. Danner-Rivers

May 13, 2021

NOTICE OF ADDENDUM
ADDENDUM NO. 2
City of Madison, Engineering Department

CONTRACT NO. 8981
METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS

This addendum is issued to modify, explain or correct the original Drawings, Specifications, or Contract Documents marked as *Metro Transit Phase 3A–Maintenance and Driver Facility Improvements, City of Madison, Contract #8981, as issued on April 8th, 2021* and is hereby made a part of the contract documents.

This addendum consists of the following documents:

Please attach these Addendum documents to the Drawings (Exhibits A and B), Specifications (Exhibits C and D), and Proposal Specifications in your possession.

1. **GENERAL CONTRACT CONDITIONS**

A. None.

2. **GENERAL QUESTIONS AND ANSWERS**

- A. Is it possible to receive the Sprinkler As-Builts as an exhibit with the addendum.
- i. Yes, attached – see *Exhibit E Fire Suppr As-Builts* provided with Addendum 2.
- B. Can the “sprinkler reconfiguration” for zones 6 and 4A be better defined? Much of the area was modified in Phase 2, is this necessary.
- i. The current zoning does not meet current code compliance. The modification in zoning is part of the scope of work as noted. If contractor has a suggestion to reconfigure in a different way and still meet current code compliance, we are open to suggestions.
- C. Is there a OH door on Metro big enough to get concrete trucks in? I seem to recall there isn’t and I’m checking with Kevin to confirm but I believe we had to buggy every cy of concrete into the building. I’m thinking about the congestion that is created at the main entrance and keeping them in operation.
- i. Correct, the door heights limit the concrete truck access inside the building.
- D. Also, I am wondering about the exterior wall panels that contain asbestos and where the line is drawn between what we are responsible for and what the abatement contractor needs to do. I imagine we would take the panels down and stack them on site someplace for them to strip mastic or do what ever they need to do but what happens after that? Do they get thrown in a metals dumpster by them that we would provide?
- i. The intent was to approach this the same way as Phase 1. The abatement contractor handles it turn key and are listed in the spec (AA Environmental). Timing coordinated with the GC. The building walls should not be open for too long, especially along Ingersoll. In Phase 1, AA Environmental just took the entire panel and disposed of it as ACM since the caulking



was pretty extensive at every joint – so the clips holding the panels on were cut and then the entire assembly was removed in full sections.

- E. Sheet A-101C show Helical Piers in the lower right corner of this area. It is our understanding that this work was already completed in the past and what is shown is not part of this project. Please confirm. If it is part of this project, please provide sheet S-101c as some of what is shown crosses over the match line to Area-E. There is no sheet S-101E to better show this area. Please confirm the extent of this work area. If what is shown on S-101C is all we need to worry about, even the helical piers on the other side of the match line, then please confirm.
 - i. All of the helical piles east of column line 13 are existing. S-101C shows this work as grey linework, indicating it is existing. There is no structural work in Area E.

- F. Does the piping, for the generator system, inside the building from the current underground tank location have to be removed?
 - i. Yes. Refer to keynote 8.017 on sheets MD102C, MD102D, and MD102F. Contractor shall also refer to key notes 8.001, 8.002, 8.003 and 8.012 on sheet MD402. Section 23 11 13 has summary of demolition of fuel-oil piping inside the building.

- G. Is the temporary piping for the fuel control system allowed to tie into the existing line?
 - i. It is allowed to tie into the existing 4 tanks that serve the fueling pumps. These tanks are south of the building, just west of the Phase 1 Service Lane addition.

- H. Please provide spec section with manufacturer and/or model number for the Aluminum Bar Grille called out in detail 8/I-502.
 - i. For aluminum bar grille, refer to HVAC LD-1 per keynote 7.102 on sheet M-101A. This references detail 15/M-511 and is scheduled on sheet M-602.

- I. Specifications indicate load testing is to occur with the helical piles. How many load tests are expected?
 - i. Specification section 31 66 15 does not require in-situ pile testing. References are made to in-situ pile testing in the spec for the possibility that unforeseen conditions may arise where in-situ testing is required. With the current conditions, it is not expected that in-situ pile load tests are required.

- J. Sheet G101 has a “CONSTRUCTION SEQUENCE SCOPES OF WORK” area on this sheet. I assume that the CONSTRUCTION SEQUENCE is the same as the PHASED CONSTRUCTION listed on page 01 1000 – 3 of the Spec book (IE: are PHASES the same as SEQUENCES?). Please advise.
 - i. Correct, sequence and phases are the same.

- K. On 1/G131 it states that the drawing is of OVERALL BASE BID FIRST FLOOR PLAN. One of the notes on this 1/G131 says BASE BID AREA F SECOND FLOOR. On 2/G131 there are two notes on the drawing .. one is for first floor and one is for second floor. I am confused regarding the notes on this sheet referencing both first and second floor on the same plan. Please advise.
 - i. 1/G-131 shows the existing first floor of Maintenance B to remain unaltered. Second floor work reconfigurations and infrastructure are still required as base bid.
 - ii. 2/G-131 shows the new reconfiguration of first floor Maintenance B as an alternate.

- L. Sheet C021 is titled OVERALL EXISTING SITE PLAN. It appears to me that there are items of new construction on this sheet (example ... 30” RCP STORM MINIMUM NEW PIPE SLOPE). Please advise.
 - i. The sheet shows existing conditions only. The elements shown are all existing and no new work is required on this sheet.



- M. Specification Section 01 32 33 Photographic Documentation Item 2.1 requires a web-based camera service and time lapse construction camera for the project. Please confirm the Owner would like bidders to include this expense given the nature of this project.
- i. Yes, provide cameras for the project as specified.
- N. 1.4 E Talks about the mounting of the lube reel banks. After looking through the drawings, I see where Q102 notes that the mounting details are with the structural drawings. I went through the structural drawings and have been unable to find any specific info on the reel bracketing required for the lube reel banks that are to be hung from the ceiling. My experience tells me that these brackets could be very expensive depending on what is intended. Hoping you can provide a drawing of what is required.
- i. S-151C & S-151D show Structural Framing with keynote 3.507 and details are on 12 & 16/S-541.
- O. Sheet A-101A at intersection of axis G and 1, it references detail 1/A-501 (shown below). It does not list a material for the space noted in Red. Also shown similarly at other wall sections. Please confirm this is empty space.
- i. This is an open space created by the depth/projection of the grade beam below the stud wall. Fill cavity full with insulation as shown.
- P. Note 4.130 relates to maintenance paint preparation and appear on A-101A, A-101C, A-101D, and A-101F. In most cases the note references an enclosed room or space. On sheets A-101C&D there is no traditional room partitions and there is no defined delineation of the extent of the application of this note. There are multiple vehicle circulation rooms, service bays, and other adjacent rooms on the sheets. Could you please define the extent of this note on these sheets.
- i. The extent of work for maintenance paint preparation generally follows the extent of concrete replacement to define the plan area of the spaces for ceilings and adjacent wall work.

3. ACCEPTABLE EQUIVALENTS

- A. 07 27 26 Fluid Applied Membrane Air Barrier
 - i. Product: W.R. Meadows Air-Shield LSR
- B. 08 41 13 Aluminum-Framed Entrances and Storefronts
 - i. Product: Tubelite
- C. 09 51 13 Acoustical Panel Ceilings
 - i. Product: Armstrong Panels
- D. 09 54 23 Linear Metal Soffits
 - i. Hunter Douglas 150F Linear Metal Soffit
- E. 09 80 00 Acoustic Felt
 - i. CSI Wall Panels: Soundcore Plus 1" Acoustical Panel
- F. 10 21 13.19 Plastic Toilet Compartments
 - i. Scranton Products Hiny Hiders
- G. 12 24 13 Roller Window Shades
 - i. Draper



4. SPECIFICATIONS

Not attached

- A. Specification 06 40 23 (NOT attached)
 - i. Revise 2.2.b.1 Wood Species and cut: Natural Ash cladding – prefinished, classic slat wood wall panel <https://urbanevolutions.com/product/slatted-wall-panel-3/>
- B. Specification 09 65 13 (NOT attached) Resilient and Metal Base and Accessories
 - i. Part 2.1.A: revise (WB-1) to be “(RB-1).”
 - ii. Add
 - 2.1.B: Resilient Base (RB-2)
 - 1. Manufacturer and Product:
 - a. Mannington 4” coved base Burkebase Type TP or equal.
<https://www.manningtoncommercial.com/products/accessories/burke/burkebase-type-tp/>
- C. Specification 09 91 23 (NOT Attached) Interior Painting
 - i. Replace Part 3.3.E. with, “Painting Mechanical and Electrical Work: Paint items exposed in finished occupied spaces (Rooms 1101 through 1119) including, but not limited to, the following:”
- D. Specification 12 64 00 (NOT attached) Upholstery Fabric
 - i. Part 2.2A: Upholstery Fabric UPH-1 is Architex Billow in the color Makena Beach (<https://www.architex-ljh.com/billow-makena-beach/>)

Attached

- E. Specification 01 32 26 (attached) Construction Progress Reporting
 - i. Added section 3.0, which requires reporting of daily sign in sheets
- F. Specification 02 65 00 (attached) Removal and Disposal of Storage Tanks
 - i. Replace specification in its entirety for modified requirements.
- G. Specification 08 91 19 (attached) Fixed Louvers and Grilles
 - i. Replace specification in its entirety to provide manufacturer and grille information for exterior soffit vent grilles.
- H. Specification 10 22 39 (attached) Folding Panel Partitions
 - i. Replace specification in its entirety for modified requirements of the panels.
- I. Specification 14 40 00 (attached), Lifts (Hoists) and Vertical Storage Units
 - i. Replace specification in its entirety to address lift requirements for length of travel and beacon stack light.
- J. Specification 22 15 19 (attached), Air Compressors and Receivers
 - i. Replace specifications in its entirety to remove “oil-free” and replace with “oil-lubricated” in Part 2.2.A.3
- K. Specification 22 31 00 (attached), Domestic Water Softeners
 - i. Replace specification in its entirety to remove Part 2.1.B.5: ASME requirement for the FRP pressure vessel.
- L. Specification 22 34 00 (attached), Fuel-Fired, Domestic Water Heaters
 - i. Replace specification in its entirety to remove:



- Part 1.5.C: ASME Compliance
- Part 2.1.3.: ASME requirement for the Storage Tank Construction
- Part 2.2.3.a: ASME requirement.

5. DRAWINGS

A. Civil

- i. Drawing C-101 (attached); Removed additional note to replace concrete sidewalk.
- ii. Drawing C-102 (attached); Provided a viewport for the bollards along the perimeter of the generator. Added annotation references for the viewport, detail reference, and separation distances.
- iii. Drawing C-141 (attached); Changed proposed 18” storm pipe to 12” and existing to 10”.
- iv. Drawing C-502 (attached); Added a 6” galvanized bollard detail.

B. Structural

- i. Drawing S-001 (attached); Note TI-2 modified.
- ii. Drawing SD101A (attached); Provide paving demolition at the end of the truck dock.
- iii. Drawing SD101D (attached); Removed errant instance of keyed note.
- iv. Drawing S-101A (attached); Strip footing schedule added, foundation added at end of truck dock.
- v. Drawing S-101B (attached); Added foundation for electrical room.
- vi. Drawing S-101C (attached); Added dimensions for pit foundations.
- vii. Drawing S-101D (attached); Added dimensions for pit foundations.
- viii. Drawing S-111A (attached); Paving added at end of truck dock.
- ix. Drawing S-131A (attached);
 - Added referenced to spandrel connection 20/S-531.
 - Added spandrel in breakroom.
 - Adjusted wall in parts room.
- x. Drawing S-142A (attached); Added platform connections to existing.
- xi. Drawing S-401 (attached); Removed extraneous detail reference.
- xii. Drawing S-441 (attached);
 - Details 1,2; Added detail reference.
 - Added detail 14/S-441.
- xiii. Drawing S-501 (attached); Within detail 6; added section for GB1240
- xiv. Drawing S-531 (attached); Added detail 20.
- xv. Drawing S-541 (attached);
 - Modified detail 18.
 - Changed detail name ‘B’ to 22.
 - Added details 19 and 23.
- xvi. Drawing S-551 (attached); Added detail 9.

C. Architectural

- i. Drawing AD101A (attached)
 - Room E135, add overhead crane demo and keynote.
 - Add Demo Keynote 4.062.
- ii. Drawing AD102A (attached)
 - Revise keynote 4.036.
- iii. Drawing A-602 (NOT attached), Door Type FC, add to the title “High Speed Rubber Roll-up Doors”
- iv. Add sheet A-801 (attached) Signage Plan and Types

D. Interiors

- i. Drawing I-401 (attached); Change “RFT-1 (Color 5316)” to “RFT-1 (Color 5307)” in all instances and change brown hatch to gray hatch.



- ii. Drawing I-601 (attached), Interior finishes schedule;
 - Remove row for finish number RFT-3. RFT-3 will not be used in this project.
 - Finish number PAB-3, change product description manufacturer from “Armstrong” to “CSI Wall Panels”, model number from “8246” to “SCCPLU4601”, style from “Feltworks Acoustical Panel” to “Soundcore Plus 1” Acoustical Panel”, and color from “FBL” to “SND902”.
 - Finish number UPH-1, change product description manufacturer from “Momentum” to “Architex”, style from “Site Line” to “Billow”, and color from “Mineral” to “Makena Beach”.
 - Finish number RFT-1, change first color listed from “5316” to “5307”.
 - Finish number WSHD-1, change product description manufacturer from “Mechoshade” to “Draper Inc.”, style from “Thermoveil 1300” to “PW3570”, color from “Black Brown” to “Ebony”, and remove remark “Mechoshade or equal. Black/brown color or similar standard color in series”
 - Finish number WSHD-2, change product description manufacturer from “Mechoshade” to “Draper Inc.”, style from “Thermoveil 1300” to “SW7000-V40”, and remove remark “Mechoshade or equal. Onyx color or similar standard color in series”
 - Finish number WD-1, change style from “Urban Elm” to “Urban Ash” and add remark “Custom Slat Wall Panels”.
 - Add finish number “RB-2” with finish description “Rubber Base – Type 2”, manufacturer “Mannington”, color “523”, size “4”, and remarks “Burkebase Type TP Coved or equal. See sheet I-102F”

E. Equipment

- i. Drawings QD101A, QD101C, QD101D, Q101A, Q101C, Q101D, Q101F & Q401 (attached)
 - Revise Equipment Schedule as shown.

F. Plumbing

- i. Drawing PD131D (attached); Added additional compressed air and water supply pipe demolition.
- ii. Drawing P-100A (attached); Provide underground plumbing for future vending in Greeting 1112.
- iii. Drawing P-101A (attached); Provide aboveground plumbing for future vending in Greeting 1112.
- iv. Drawing P-131A (attached); Provide supply plumbing for future vending in Greeting 1112
- v. Drawing P-131D (attached);
 - Added new pipe connection to for existing compressed air and supply pipe lines.
 - Re-routed ESEW-1 piping plan south of the door.
 - Added new keyed note 6.158.
- vi. Drawing P-131F (attached); Provided additional Hose Reels for air and water, additional air drops.
- vii. Drawing P-431 (attached); Piping changes on Detail 3 and 4.

G. HVAC

- i. Drawing M-603 (attached): Change Ductwork Finish to “Mill” in the HVAC Duct Schedule on M-603

H. Electrical (ALL NOT attached)

- i. Drawing E-101F; In Vehicle Storage E177, along column line F and between column lines 19 and 20 delete Temporary Generator Connection Cabinet (TGCC)
- ii. Drawing E-601; In Luminaire Schedule add the following acceptable manufactures as



- follows: Des. A1; Cooper Lighting, Des. D1; Lightolier, Des. DK1; Solas-Ray, Des. K21; Daybright, Des. L3; CONTECH, Des. N6; Daybrite, Des. N11; Viscor, Des. OA1; Lightolier, Des. OA2; Gardco, Des. P1; Betacalco, Des. P2; GLighting, Scott, Des. P2, P3 and P4; Scott, Des. S1; Halo Lighting, Des. Q1; Omni Light and Q-Tran, Des. Q2; Prizm, Des. X1 and X2; EMGI-Lite. DES. N2, N3, N5 and N7; Viscor LHBD series.
- iii. Drawing E-604; In panel schedule 1ROL6 change enclosure type from NEMA 12 to NEMA
 - iv. Drawing E-701; On switchboard MSBNH1, change minimum breaker IC rating from 25,000 to 35,000 RMS SYM @480V.
 - v. Drawing E-703;
 - On distribution panel MDOH1, change minimum breaker IC rating from 25,000 to 35,000 RMS SYM @480V.
 - On ATS-EM, change “SCCR =14,000A” to “WCR=30,000A.”
 - On ATS-OP, change “SCCR =14,000A” to “WCR 50,000A.”
 - On Generator Connection Cabinet (GCC), change “SCCR =25,000A” to “Calculated Fault Current RMS Sym. @480V= 25,000 AIC.”
 - Add keyed note 9.320 to read: Service Entrance Conductors from CT/Meter Cabinet to Switchboard are to be routed within masonry chase provided within Parts Storage 1237 to meet the requirements of NEC 230.6.
 - Add keyed note 9.321 to read: Feeder conductors from generator to Bussed Gutter and feeder from Generator Connection Cabinet (GCC) to ATS-EM shall utilize masonry chase provided within Parts Storage 1237 to get to second floor Mechanical room 220.

6. PROPOSAL AND CONTRACT SPECIFICATIONS

A. None

Please acknowledge this addendum in Section E on page E-1: Bidder’s Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at <https://www.bidexpress.com/> and the City of Madison web site at <http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 to receive the material by another method.

For questions regarding this bid, contact:

Mead & Hunt, Inc.
Rich Lundeen, AIA, Project Manager
PH: 608-443-0529
Email: richard.lundeen@meadhunt.com

City of Madison
Jon Evans, PE, Project Manager
PH: 608-243-5893
Email: jevans@cityofmadison.com

Sincerely,

Robert F. Phillips, P.E., City Engineer

**SECTION 01 32 26
CONSTRUCTION PROGRESS REPORTING**

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PART 1 – GENERAL

1.1. SUMMARY

- A. Daily records of project activities, resources used, weather conditions, and other information related to the ongoing progress of the project are extremely important at all levels of Construction Management.
- B. Daily records provide the base for weekly progress reports and updating progress schedules.

1.2. RELATED SPECIFICATION SECTIONS

- A. Section 01 31 19 Project Meetings
- B. Section 01 31 23 Project Management Web Site
- C. Section 01 32 23 Photographic Documentation

1.3. PERFORMANCE AND QUALITY ASSURANCE REQUIREMENTS

- A. The General Contractor (GC) shall be responsible for all Construction Progress Reporting as outlined in this and other specifications as noted.
- B. The GC shall maintain daily progress journals in a format of his/her choosing provided it is legible and contains the information as outlined in Section 3.1 below.
- C. The journal shall be located in the job trailer and shall be reviewable by the Project Architect or City Project Manager if so requested.

PART 2 – PRODUCTS - THIS SECTION NOT USED

PART 3 - EXECUTION

3.0 DAILY SIGN-IN SHEET

- A. The GC shall provide and maintain a daily sign-in sheet and require all workers and visitors to sign in/out each work day. These daily sign-in sheet reports shall include name/company/time-in/time-out. These reports can be submitted daily or at the end of each week to the City Project Manager or as directed by City Staff.

3.1. CONTRACTOR JOURNAL

- A. The GC shall maintain a journal of daily progress on which Work is performed by any employee or entity for which the GC is responsible. Such reports shall include all relevant data concerning the progress of Work activities the GC and Subcontractors are responsible for and the effect of that activity on the time of performance of the Contract.
 - 1. Some projects may not require weekly journals be kept instead of daily journals. This is at the sole discretion of the City Project Manager. A daily journal will generally be required when the contract has a significant amount of site work. A weekly journal will generally be used when a contract is interior work only.
- B. Journal entries shall be made on the Contractor Daily/Weekly Report Form located in the Construction Progress-Daily Journal Library on the Project Management Web Site. The form consists of the following areas:
 - 1. Weather; include temperature, humidity, precipitation, wind and other related information such as significant storm events, times, and details.
 - 2. Work completed by trade
 - 3. Delays encountered
 - 4. Deliveries received or delayed

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- 13 **3.2. CONSTRUCTION PROGRESS MEETINGS**
- 14 A. The GC shall provide a verbal summary of the previous two (2) weeks progress reports at each bi-weekly
- 15 construction progress meeting.
- 16
- 17
- 18 **END OF SECTION**
- 19

**SECTION 02 65 00
REMOVAL AND DISPOSAL OF STORAGE TANKS**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. The Contractor shall furnish all labor, material, tools, transportation and equipment necessary to remove the existing Underground Storage Tank (UST), associated electrical, structural, and product equipment, (e.g., dead men, anchor straps, piping, manways, piping, pumps, and dispenser(s), if present). This section specifies requirements for the permitting and removal of the UST and is intended to supplement the construction/installation specifications. Generally, the work shall include, but not be limited to:

1. File all necessary notices, obtain all permits and licenses, and pay for all governmental taxes, fees, and other costs in connection with the work. Obtain all necessary approvals of all governmental departments having jurisdiction.
2. Coordinate removal activities with SCS Engineers, 2830 Dairy Drive, Madison, WI. (608) 224-2830. SCS Engineers is the City of Madison approved vendor for these activities and will provide Wisconsin DATCP-Certified UST Tank System Remover Cleaner to oversee the operation.
3. After SCS has determined the tank atmosphere is safe, , remove, the of UST(s), and appurtenant piping for the tank(s) and set aside onsite for cleaning and removal by SCS.. The work shall include the removal of the tank and associated piping between the tank and the building. Removal of piping and associated contents within the building is addressed in the Mechanical drawings.
4. SCS will provide a Wisconsin DATCP-certified Tank System Site Assessor to perform the required site assessment soil sampling and documentation.
5. Comply with the Contractor's submitted Health and Safety Plan

1.3 DEFINITIONS

- A. LEL: Lower Explosive Limit
- B. OSHA: Occupational, Health and Safety Administration
- C. PID: Photoionization Detector

1.4 REGULATORY REQUIREMENTS

- A. Tank closure shall be carried out in accordance with the Agriculture, Trade and Consumer Protection (DATCP), as well as any other applicable local, state and City of Madison regulations. Wherever there is a conflict or overlap of requirements, the most stringent provisions shall apply.
- B. The Contractor shall obtain and pay for all local and state permits and make necessary arrangements with the local Fire Department prior to the removal of tanks.

- C. The Contractor shall keep the local Fire Department informed of all activities throughout the performance of the work. This task may be delegated to SCS.
- D. For work that will be sub-contracted, the Contractor is responsible to ensure that the Sub-contractor has reviewed and will strictly adhere to this specification, all reference documents, and with all local, state and federal regulations.
- E. All Contractors and/or Sub-contractors must have current, applicable licenses for all work performed.

1.5 SAFETY REQUIREMENTS

- A. All personnel shall be trained in the proper use and maintenance of the appropriate protective equipment used on this project. Smoking will not be allowed in the work area or loading area during the course of the work.
- B. Personnel working inside and in the general vicinity of the tanks shall be trained and thoroughly familiar with the safety precautions, procedures, and equipment required for controlling the potential hazards associated with this work, including training for confined space entry. Personnel shall use proper protection and safety equipment during work in and around the tanks, including instruments to monitor air quality, explosive atmospheres and oxygen content.
- C. All provisions of the site Health and Safety Plan included shall be in force during tank removal activities, unless modified in writing by the Contractor's Site Safety Officer.
- D. Warning signs and devices shall be placed at regular intervals along the work area perimeter, and establish restricted work zones, support areas and decontamination areas as needed. Contractor shall furnish, install and maintain fencing or other appropriate barricades at open excavations, including illumination if left over night.
- E. Prior to ending operations on any working day or at any time the Contractor is not on site, the Contractor shall secure all areas of work by erecting temporary safety fencing in accordance with Section 01 50 00 – TEMPORARY FACILITIES AND CONTROLS.
- F. Cutting of steel or other metals by thermal methods shall, at all times, occur in a non-explosive environment. During such work, percent of lower explosive limit in the tanks, piping of the surrounding atmosphere shall be continuously monitored. The Contractor shall note that residual pockets of oils or residues may exist in some of the pipelines and the Contractor shall exercise care to prevent release to the environment and harm to workers, facility staff or the public resulting from potential explosive nature of the contained materials.
- G. The Contractor shall provide and maintain an adequate supply of fire extinguishers and other required safety equipment in close proximity to all tank cleaning and removal activities.

1.6 COORDINATION

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.
- B. See Construction Sequencing Drawing G-101 for detailed sequencing requirements.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ASSE A10.6 and NFPA 241.
- C. Standards: Comply with CH. ATCP 93 and any other state and federal tank laws.
- D. Reference Standards can be found at:
https://datcp.wi.gov/Pages/Programs_Services/PetroleumHazStorageTanksLawsRegulations.aspx

PART 3 - EXECUTION

3.1 GENERAL

- A. Provide suitable personnel, material and equipment to remove the fuel piping and tank and all sludge and liquids that may be in the piping prior to removal. Take all necessary precautions during removal of the tanks to prevent damage to utilities adjacent to the area. All fuel fill, boiler supply and other fuel lines and vents shall be removed.

3.2 PERMITTING

- A. Prior to initiating storage tank removal activities, the Contractor shall notify the local fire department. The Contractor shall apply for and obtain a Permit for storage tank removal and transportation to approved tank disposal yard in accordance with the provisions of state, local and federal requirements.

3.3 TANK CLEANING

- A. SCS will clean and dispose the tank following removal by the Contractor and will contract directly with the owner for these services: SCS Engineers, 2830 Dairy Drive, Madison, WI. (608) 224-2830. SCS Engineers is the City of Madison. The contractor will be responsible for draining and removing petroleum piping inside the building. Piping shall be drained back into the tank.
- B. The Contractor shall perform the following activities prior to closure of the tank:
 - 1. Notify the local fire department.
 - 2. Contact Digger's Hotline to obtain information on underground utilities, a minimum of 72 hours prior to excavation.
 - 3. Obtain all necessary permits, as previously detailed within this Section.
- C. Inspect the work area prior to excavation, decontamination and removal activities to the extent required to safely perform the work.
- D. The Contractor shall protect existing site surfaces, materials, and structures from inadvertent Contamination from cleaning operations. Should such contamination occur, the Contractor shall not be reimbursed for costs associated with replacement or proper disposal of contaminated materials.

- E. Assure that any electrical power connected to the tanks or its ancillary equipment (pumps) has been deactivated and the actual wiring properly dismantled at the circuit breaker(s).
- F. Collect, containerize and dispose of all residual oils, other product, and sludge remaining in the piping prior to tank cleaning and removal.
- G. T SCS shall use a suitably calibrated instrument to determine if the atmosphere within the tanks exceeds ten percent of the Lower Explosive Limit (LEL). Readings shall be taken throughout the tanks depth wherever access is possible. If the vapors within the tanks exceed ten percent of the LEL, the atmosphere shall be purged or interted followed by a recheck of the LEL until the vapors are less than 10 percent of the LEL.
- H. After acceptable LEL levels have been reached, excavation of tanks may begin after approval of the Owner's Representative.

3.4 TANK EXCAVATION

- A. The Contractor shall provide all labor, permitting, tools, material, services, and equipment necessary to properly demolish the concrete vault, excavate the tank(s), and associated mechanical piping and appurtenances, after pipe and tank cleaning and disposal activities.
- B. After the tank and mechanical piping have been purged, cleaned, and gas freed of vapors, but prior to removal, the Contractor shall plug all holes and inert the tanks and piping, as specified by the Board of Fire Prevention regulations.
- C. Once the tanks are cleaned and inert, the Contractor must be careful to excavate around the tank, exposing as much of the tank as possible, to allow for a visual inspection of the tank surface. The inspection is performed to identify possible holes, cracks, etc. and other evidence that a leak may have occurred. Remove the tank hold-down straps, if any, lift the tank out of the excavation, place on a level surface, and block the tank to prevent movement. The exterior of each tank and pipe shall be cleaned, and if contaminated soil or groundwater conditions exist, the cleaning wastes contained for proper disposal. Methods for removal shall be predetermined by Contractor and approved by the Owner or their representative.
- D. The SCS shall monitor the excavations and every 20 feet along pipe trenches for visual indications of the release of petroleum and shall use a PID for headspace screening of samples and to conduct ambient air readings during all excavation activities. The Contractor shall assist the SCS in collecting appropriate soil samples during post excavation from excavation graves. These samples will be submitted by SCS for analysis at an analytical laboratory. Headspace screening of soil samples will performed by SCS The City of Madison will coordinate reporting obligations as well as any further environmental remediation. As a result, the Contractor may be required to perform additional excavation in the area.]
- E. If large areas of petroleum impacted soils are encountered in the UST excavation, or greater than one-half inch (1/2") of free oil on a groundwater surface, work shall stop and the City of Madison Project Manager shall be immediately notified. Subsequent earthwork and/or groundwater handling work will be under the direction of SCS.
- F. Incidental volumes of visually (or by field PID) contaminated soils may be expected during excavation of the USTs and piping. These soils shall be segregated and stored

during characterization and preparation for offsite disposal by the Contractor. Apparently clean soils shall be stockpiled separately for future reuse at the site. Reuse of these soils will be directed by City of Madison or SCS.

3.5 TANK REMOVAL

- A. The tanks shall be removed from the excavation and the exterior cleaned to remove all soil and inspected for signs of corrosion, structural damage, or leakage.
- B. Tank anchoring structures such as concrete deadmen or hold down slabs shall be removed, unless otherwise directed by the Owner.
- C. All piping including electrical conduit associated with the tanks shall be completely removed to the interior face of any associated building wall. Piping shall be reduced to appropriate lengths and cleaned of all contaminated materials. Sleeves and piping passing through wall shall be flushed clean and then permanently capped and plugged on the outside in a manner approved by the Owner.
- D. All level monitoring and control equipment shall be completely removed to the interior face of any associated building wall. This includes transmitters, indicators, conduit, wiring, pumps and dispensers.

3.6 DISPOSAL

- A. All concrete associated with existing buried tanks shall be broken up and re-used/disposed in accordance with Section 01 74 19 CONSTRUCTION AND WASTE MANAGEMENT AND DISPOSAL.

END OF SECTION 02 65 00

SECTION 08 91 19 FIXED LOUVERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:

1. Fixed drainable louvers with blank-off panels, bird, and insect screens.
2. Aluminum eggcrate return grille

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of louver, vent and accessory indicated.
- B. Shop Drawings: Show layouts of louver and vents, including plans, elevations, sections, details, and attachments metal wall panels and other work.
- C. Color Chart: Provide Manufacturer's color chart with full range of standard colors.

1.4 QUALITY ASSURANCE

- A. Source Limitation: Obtain louvers and vents through one source from a single manufacturer.
- B. Installer Qualifications: An employer of workers trained and approved by manufacturer.
1. Installer's responsibilities include fabricating and installing louvers and vents integral to metal wall panel assemblies and providing professional engineering services needed to assume engineering responsibility.

PART 2 - PRODUCTS

2.1 LOUVERS

- A. Manufacturers:

1. Basis-of-design manufacturer and product:
 - a. Manufacturer: Greenheck
 - b. Product: ESD-603
 - 1) 150-mm (6 inches) extruded aluminum stationary blade exterior louver.

- B. Louvers shall be horizontal, extruded-aluminum, drainable-blade louvers:
 - 1. Aluminum Thickness: 2.06-mm (0.081 inches) for both blades and frames.
 - 2. Six-inch-deep frames and drainable blades.
- C. Reference Louver Schedule on the mechanical drawing sheets for quantity and size of louvers.

2.2 ALUMINUM EGGCRATE RETURN GRILLE

- A. Manufacturers:
 - 1. Basis-of-design manufacturer and product:
 - a. Manufacturer: Titus
 - b. Product: 50F
 - 1) Aluminum border and aluminum grid construction
 - 2) ½" x ½" x 1 inch
 - c. Size: 24 inch x 24 inch

2.3 ACCESSORIES

- A. Louver Screens: Provide removable bird screens at interior face of each exterior louver. Fabricate screen frames from same kind and form of metal as indicated for louver to which screens are attached.
- B. Provide manufacturer's standard insulated blank-off panels at all areas of louvers not being utilized for air intake and exhaust.

2.4 FINISHES

- A. Color Anodic Finish: AAMA 611, AA-M10C22A42, 0.0018-mm (0.07 mil) thicker.
 - 1. Color: As selected by Architect from full range of manufacturer's standard colors.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install louvers level, plumb, and at indicated alignment with adjacent work.
- B. Use concealed anchorages where possible.
- C. Protect metal surfaces from corrosion or galvanic action by applying a heavy coating of bituminous paint on surfaces that will be in contact with concrete, masonry, or dissimilar metals.

END OF SECTION 08 91 19

SECTION 10 22 39 FOLDING PANEL PARTITIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Electrically operated, acoustical panel partitions.

- B. Related Requirements:

1. Section 05 50 00 "Metal Fabrications" for supports that attach supporting tracks to overhead structural system.
2. Section 09 29 00 "Gypsum Board" for fire-rated assemblies and sound barrier construction above the ceiling at track.
3. Electrical and communications Sections for electrical service and connections for motor operators, controls, and limit switches and for system disconnect switches.

1.3 DEFINITIONS

- A. NIC: Noise Isolation Class.
- B. NRC: Noise Reduction Coefficient.
- C. STC: Sound Transmission Class.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1. Include plans, elevations, sections, attachment details.
2. Indicate stacking and operating clearances. Indicate location and installation requirements for hardware and track, blocking, and direction of travel.
3. Include diagrams for power, signal, and control wiring.

- B. Samples for Initial Selection: For each type of exposed material, finish, covering, or facing.

1. Include Samples of accessories involving color selection.

- C. Samples for Verification: For each type of exposed material, finish, covering, or facing, prepared on Samples of size indicated below:
1. Textile Facing Material: Full width by not less than 36-inch- (914-mm-) long section of fabric from dye lot to be used for the Work, with specified treatments applied. Show complete pattern repeat.
 2. Panel Facing Material: Manufacturer's standard-size unit, not less than 3 inches (75 mm) square.
 3. Panel Edge Material: Not less than 3 inches (75 mm) long.
 4. Hardware: One of each exposed door-operating device.

1.6 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
1. Partition track, track supports and bracing, switches, turning space, and storage layout.
 2. Suspended ceiling components.
 3. Structural members to which suspension systems will be attached.
 4. Size and location of initial access modules for acoustical tile.
 5. Items penetrating finished ceiling including the following:
 - a. Lighting fixtures.
 - b. HVAC ductwork, outlets, and inlets.
 - c. Speakers.
 - d. Sprinklers.
 - e. Smoke detectors.
 - f. Access panels.
 6. Plenum –fire, smoke, and acoustical barriers.
- B. Setting Drawings: For embedded items and cutouts required in other work.
- C. Qualification Data: For Installer.
- D. Product Certificates: For each type of operable panel partition.
- E. Product Test Reports: For each operable panel partition, for tests performed by a qualified testing agency.
- F. Field quality-control reports.
- G. Sample Warranty: For manufacturer's special warranty.

1.7 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For operable panel partitions to include in maintenance manuals.

1. In addition to items specified in Section 01 78 23 "Operation and Maintenance Data," include the following:
 - a. Panel finish facings and finishes for exposed trim and accessories. Include precautions for cleaning materials and methods that could be detrimental to finishes and performance.
 - b. Seals, hardware, track, track switches, carriers, and other operating components.
 - c. Electric operator and controls.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Protectively package and sequence panels in order for installation. Clearly mark packages and panels with numbering system used on Shop Drawings. Do not use permanent markings on panels.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of operable panel partitions that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Faulty operation of operable panel partitions.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal use.
 2. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Acoustical Performance: Provide operable panel partitions tested by a qualified testing agency for the following acoustical properties according to test methods indicated:
 1. Sound-Transmission Requirements: Operable panel partition assembly tested for laboratory sound-transmission loss performance according to ASTM E90, determined by ASTM E413, and rated for not less than the STC indicated.
 2. Noise-Isolation Requirements: Installed operable panel partition assembly, identical to partition tested for STC, tested for NIC according to ASTM E336, determined by ASTM E413, and rated for 10 dB less than STC value indicated.

- B. Fire-Test-Response Characteristics: Provide panels with finishes complying with one of the following as determined by testing identical products by a testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 450 or less.
 - 2. Fire Growth Contribution: Complying with acceptance criteria of local code and authorities having jurisdiction when tested according to NFPA 286.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 OPERABLE ACOUSTICAL PANELS

- A. Operable Acoustical Panels: Partition system, including panels, seals, finish facing, suspension system, operators, and accessories.
 - 1. Basis of Design:
 - a. North Wall of 1104: Skyfold, Zenith Premium Model C.
 - b. Dividing Wall of 1104: Skyfold, Zenith Model B
- B. Panel Operation: Electrically operated, vertical lift panels.
- C. Panel Construction: As required to support panel from suspension components and with reinforcement for hardware attachment. Fabricate panels with tight hairline joints and concealed fasteners. Fabricate panels so finished in-place partition is rigid; level; plumb; aligned, with tight joints and uniform appearance; and free of bow, warp, twist, deformation, and surface and finish irregularities.
- D. Dimensions: Fabricate operable acoustical panel partitions to form an assembled system of dimensions indicated and verified by field measurements.
 - 1. Panel Width: As indicated in the Drawings.
- E. STC: Not less than 51.
- F. Panel Weight: 6.2 lb/sq. ft. (55 kg/sq. m) maximum.
- G. Panel Thickness: Nominal dimension of 12 inches (102 mm).
- H. Panel Materials: Manufacturer's standard, unless otherwise indicated in the Drawings.
- I. Panel Closure: Manufacturer's standard unless otherwise indicated.

- J. Hardware: Manufacturer's standard as required to operate operable panel partition and accessories; with decorative, protective finish.
- K. Finish Facing: as indicated in the Drawings and Finish Schedule.

2.3 SEALS

- A. Description: Seals that produce operable panel partitions complying with performance requirements and the following:
 - 1. Manufacturer's standard seals unless otherwise indicated.
 - 2. Seals made from materials and in profiles that minimize sound leakage.
 - 3. Seals fitting tight at contact surfaces and sealing continuously between adjacent panels and between operable panel partition perimeter and adjacent surfaces, when operable panel partition is extended and closed.

2.4 PANEL FINISH FACINGS

- A. Description: Finish facings for panels that comply with indicated fire-test-response characteristics and that are factory applied to operable panel partitions with appropriate backing, using mildew-resistant non-staining adhesive as recommended by facing manufacturer's written instructions.
- B. Fabric Wall Covering: Manufacturer's standard fabric, from same dye lot, treated to resist stains.
 - 1. Color/Pattern: Provide HPL, Marker Boards and Fabric for walls per the Finish Schedule.
- C. Trimless Edges: Fabricate exposed panel edges so finish facing wraps uninterrupted around panel, covering edge and resulting in an installed partition with facing visible on vertical panel edges, without trim, for minimal sightlines at panel-to-panel joints.

2.5 ELECTRIC OPERATORS

- A. Factory-assembled electric operation system of size and capacity recommended and provided by operable panel partition manufacturer for partition specified; with electric motor and factory-rewired motor controls, speed reducer, chain drive, control stations, control devices, and accessories required for operation. Include wiring from control stations to motor. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
- B. Comply with NFPA 70.
- C. Control Equipment: Comply with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6.
- D. Motor Electrical Characteristics:
 - 1. Horsepower: Manufacturer's standard.
 - 2. Volts: 230.
 - 3. Phase: Polyphase.

4. Hertz: 60.
- E. Control Stations: Two single-key-operated, constant-pressure control stations located remotely from each other on opposite sides and opposite ends of partition run. Wire in series to require simultaneous activation of both key stations to operate partition. Each three-position control station labeled "Open," "Close," and " Stop." Furnish two keys per station.
- F. Obstruction-Detection Devices: Equip each motorized operable panel partition with indicated automatic safety sensor that causes operator to immediately stop and reverse direction.
 1. Sensor Edge: Contact-pressure-sensitive safety edge along partition's leading edge.
- G. Safety Requirements:
 1. The operable wall shall employ an electromagnetic type of brake which shall activate firmly, without hesitation, when power is lost to the system. This brake shall have a minimum retarding torque rating equal to 200% of the motor drive's full load torque. The drive system shall be equipped with a manual override and a brake release lever.
 2. The operable wall shall employ a dynamic brake, distinct and separate from the brake in 2.2.4.1, in order to lower the operable wall at a controlled speed of no more than approximately 150% of the normal down speed, in the case of a catastrophic failure in the motor drive's power train. Alternately, the operable wall shall employ a brake, distinct and separate from the brake in 2.2.4.1, in order to completely halt the downward motion of the wall in the case of a catastrophic failure in the power train.
 3. The operable wall shall employ electrical or other limit switches in order to stop the wall at it's up and down travel limits.
 4. The operable wall shall employ an over torque detector in order to sense a jam in the system and to act as an over travel limit in the up direction should the primary limit switch fail to act in 1.3.2.4. This over torque sensor shall be mechanical, using the motor's torque arm in it's over torque detection.
 5. The entire length of the bottom edge of the operable wall shall be equipped with a continuous pressure sensing strip which shall cut power to the motor drive and shall activate the brake outlined in 2.2.4.1, if the sensing edge comes in firm contact with an object, before the operable wall is in the full down (closed) position. The operable wall will automatically reverse direction and ascend for approximately 3 seconds to clear the obstruction. The power shall remain cut to the motor drive until the switches have been released. The operation of the operable wall can resume once the obstruction is removed.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine flooring, floor levelness, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable panel partitions.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install operable panel partitions and accessories after other finishing operations, including painting, have been completed in area of partition installation.
- B. Install panels in numbered sequence indicated on Shop Drawings.
- C. Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.
- D. Broken, cracked, deformed, or unmatched gasketing or gasketing with gaps at butted ends is not acceptable.
- E. Light-Leakage Test: Illuminate one side of partition installation and observe vertical joints and top and bottom seals for voids. Adjust partitions for alignment and full closure of vertical joints and full closure along top and bottom seals.

3.3 FIELD QUALITY CONTROL

- A. NIC Testing: Engage a qualified testing agency to perform tests and inspections.
 - 1. Testing Extent: Testing agency shall randomly select one operable panel partition installation(s) for testing.
 - 2. Testing Methodology: Perform testing of installed operable panel partition for noise isolation according to ASTM E336, determined by ASTM E413, and rated for not less than NIC indicated. Adjust and fit partitions to comply with NIC test method requirements.
- B. An operable panel partition installation will be considered defective if it does not pass tests and inspections.
- C. Prepare test and inspection reports.

3.4 ADJUSTING

- A. Adjust operable panel partitions, hardware, and other moving parts to function smoothly, and lubricate as recommended by manufacturer.
- B. Adjust panels to operate smoothly and easily, without binding or warping.
- C. Verify that safety devices are properly functioning.

3.5 MAINTENANCE SERVICE

- A. Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 12 months' full maintenance by manufacturer's authorized service representative. Include quarterly preventive maintenance, repair or replacement of worn

or defective components, lubrication, cleaning, and adjusting as required for proper operable-partition operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.

3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain operable panel partitions.

END OF SECTION 10 22 39

**SECTION 14 40 00
LIFTS (HOISTS) AND VERTICAL STORAGE UNITS**

PART 1 - GENERAL

1.1 SCOPE

- A. Applicable provisions of the General and Supplementary Conditions and Division 01 govern work under this Section.

1.2 DESCRIPTION

A. Work Included:

1. Nine (9) vehicle lifts: ECO 60
2. One (1) ECO 90
3. Two (2) vertical storage units:
 - a. one (1) for tire storage and
 - b. one (1) for parts inventory.

B. Related Work Specified Elsewhere

1. Cast-In Place Concrete Section 03 30 00
2. Plumbing Systems Division 22
3. Electrical Division 26

1.3 SUBMITTALS

- A. Within 35 days after award of Contract, and before any of the materials of this Section are delivered to the job site, submit complete to the Owner in accordance with these Specifications; the following:

1. Shop Drawings: Shop drawings shall include, but not necessarily be limited to, the following:
 - a. Wiring and control schematic and detail diagrams
 - b. Maximum electrical requirements
 - c. Outline dimensions of equipment
 - d. Equipment and component layout
 - e. Details of equipment and controls
 - f. Installation detail
2. Operation and Maintenance Manuals.

1.4 Product Delivery, Storage and Handling

- A. Protection: Use all means necessary to protect the materials of this Section before, during and after installation and to protect the installed work and materials of all other trades.

B. Delivery and Storage of Materials

1. Deliver materials in manufacturer's original sealed containers.

C. Replacements: In the event of damage, immediately make all repairs and replacements necessary to the approval of the Owner and at no additional cost to the Owner.

1.5 QUALITY ASSURANCE

A. Manufacturer shall be a reputable manufacturing firm, regularly engaged in the design and manufacture of lifts. All similar items shall be the product of a single manufacturer.

B. A manufacturer's field service representative shall install the equipment, conduct acceptance testing and train the Owner's personnel in the proper operation and maintenance of the equipment.

C. The following information shall be provided with the bid documents regarding the manufacturer's experience and qualifications:

1. Provide a minimum of three locations where similar equipment has been provided/installed including the date placed in service.
2. Provide the name and telephone number of individuals at above locations who are familiar with the operation and maintenance of the lift equipment.

1.6 CERTIFICATION REQUIREMENTS

A. Materials shall comply with ISO, E.N. and meet or exceed 9000 quality standards.

B. The lift installer shall be certified as a factory authorized installer, trained and authorized by the manufacturer supplying the lift equipment. Certification shall be provided with the bid documents.

C. The lift manufacturer shall comply with all applicable requirements of the "Buy America" provisions of the Surface Transportation Act as outlined by the Federal Transit Administration and U.S. Department of Transportation.

D. The Lift Manufacturer shall be held in good standings with the Automobile Lift Institute (ALI).

E. The lift or lifts, shall be labeled and listed by a Nationally Recognized Testing Laboratory as established by OSHA for conformance to ANSI/ALI ALCTV-1998 Automotive Lifts, "Safety Requirements for the Construction, Care and Use of Automotive Lifts," as published by the American National Standards Institute. The lifts shall be Gold labeled certified with the ALI/ETL certification. The lift company's Quality Management System shall be ISO9001. The lift manufacturer shall comply with all applicable requirements of the Buy America Act.

1.7 APPLICABLE STANDARDS

A. In addition to the requirements outlined herein, the lift or lifts shall comply with all applicable requirements of Automotive Lift Institute (ALI), American National Standards

Institute (ANSI), and “Safety Requirements for the Construction, Care and Use of Automobile Lifts”, as published by the American National Standards Institute. All electrical apparatus shall be UL Listed.

1.8 WARRANTY

- A. Following completion of installation and start up of lift equipment, the manufacturer shall provide a one (1) year warranty against manufacturing defects in materials, function and workmanship.
- B. Warranty shall include materials and labor necessary to correct defects.
- C. All parts shall be readily available locally in the United States.

PART 2 - PRODUCTS

2.1 SCISSORS IN-GROUND LIFTS

A. Model:

- 1. ECO- 60 as manufactured by Stertil-Koni USA Inc.
 - a. General Description: lift shall consist of two lifting units in line with the longitudinal axis of the vehicle, each lifting unit so equipped as to engage the axle and/or suspension as specified herein. One of the two lifting units will be movable fore and aft to affect variable spacing between lifting mechanisms. The other lifting unit shall be fixed.
 - b. Lifting Capacity:
 - 1) Lift shall be capable of raising 60,000 lbs. (27,216 kg), 30,000 lbs. (13,608 kg) Fixed/ 30,000 lbs. (13,608 kg) Moveable.
 - 2) Unbalanced Loads, Moveable to Fixed: Lift shall be capable of raising 30,000 lbs (13,608 kg) on one unit and 0 lbs (0 kg) on the other unit.
 - c. Travel range for the movable lifting unit is as follows, depending on selected model:
 - 1) ~~204 inches (ECO-60-17)~~ 120 inches (ECO-60-10)
- 2. Dimensions:
 - a. Lifting height shall be no less than 70 inches (1,780 mm) as measured from the bolster at full rise to the finished floor.
 - b. Lifting Rate: 90 seconds; 45 inches (1,140 mm) per minute, minimum.
 - c. Maximum depth below finished floor for any structural component or member: 34 inches (864 mm) maximum.
 - d. Movable and fixed lifting unit synchronization: 2 inches (51 mm).
 - e. Lift Units:

- 1) Lift units and continuous recess insert shall be completely removable with no lift components or structural framing permanently embedded in the concrete.
- 2) Lift unit shall be a hydraulically powered, mechanically articulating scissor lift, complete with a mechanical locking system.
- 3) All steel surfaces shall be powder coated.
- 4) By means of a centering link, the lifting unit structure shall articulate symmetrically about the center axis of the lift unit as it raises and lowers.

3. Movable Lifting Unit:

- a. Movable lifting unit shall relocate horizontally fore and aft while in the fully retracted position.
- b. When the entire travel frame insert has the covers in place and the lift is operational, it forms a continuous recess that shall meet the following design and performance criteria:
 - 1) The movable lifting unit shall not be required to recess, or park, in only one "pocketed" location, providing increased productivity in servicing fleet vehicles of varying wheelbases.
 - 2) The movable lifting unit may be recessed below finished floor at any position between the minimum and maximum dimensions of the travel range.
 - 3) The movable lifting unit shall be capable of fore and aft travel while recessed below floor.
- c. Maximum depth below finished floor for the continuous recess insert, rear lifting unit or any fixed or movable component shall be 34 inches (864 mm).
- d. The movable steel box insert shall have an open floor design, mounted off the concrete floor of the trench to allow for the collection, cleaning and drainage of all liquids and solids that accumulate in the trench.
- e. Aluminum covers for moveable mechanism is anodized structural 6061 aluminum extrusions engineered to accept a 7,500 lb. (3,402 kg) point load on a contact area of 2 x 2 inches (50 x 50 mm) and shaped to include a full-length interlocking hinge. Covers shall fit together tightly and uniformly to promote smooth travel so as to prevent jamming and twisting. Covers shall be able to accept a 13,500 lb. (6,123 kg.) drive over load on a 6 x 9 inch (152 x 228 mm) contact area.
- f. Aluminum covers for the moveable mechanism are attached to UHMW slider blocks for reduced friction and increased longevity. These slider blocks shall keep the covers properly centered at all times. Horizontal grooves in the UHMW sliders shall, together with essentially half moon shaped guide rails in the end section of lift's steel box insert, securely guide the covers as they travel in and out of the recess.
- g. Aluminum covers for the moveable mechanism shall be flush with finished floor within a tolerance of less than 1/8 inch. Covers that are lower than the finished floor are not be acceptable.
- h. Movable lifting unit and the covers shall bear on and slide over UHMW surfaces for low friction and minimal maintenance.

- i. Hydraulically powered carriage drive shall utilize a rack and gear arrangement on both left and right sides for smooth and even fore-aft travel without binding.
 - j. Rack shall be inverted and positioned under the load channel of the movable lifting unit insert where it is protected so as not to collect dirt, grease etc.
 - k. All hydraulic and compressed air service lines are fed from control console to moveable lifting unit insert through one PVC chase way per unit.
 - l. All low voltage, intrinsically safe electric service lines shall be fed from the control console to the moveable lifting unit insert through one 3/4 inch rigid conduit per unit, installed to meet local requirements.
4. Fixed Lifting Unit:
- a. Fixed lifting unit shall be drop-in, and bolted in-place with eight 7/8 inch (22 mm) stainless steel anchors.
5. Hydraulic System:
- a. System shall be comprised of high pressure, low volume, single acting, 7 inch (178 mm) diameter cylinders, one in each lifting unit.
 - b. The hydraulic system shall be a power up / gravity down design. Lifts that rely on the power units to run during the lowering cycle shall not be acceptable due to increased power consumption.
 - c. High pressure seals shall be internal to the cylinder, where they are protected from salt, dirt, etc.
 - d. Combined, the two cylinders shall only require 7 gallons (26.5 l) of AW 15 hydraulic oil for lifting to full height.
 - e. Each pistons requires 3.5 gallons (13.25 Liters) of hydraulic oil for lifting to full height.
 - f. Each cylinder shall have a hose break velocity fuse (safety check valve) integrally mounted to prevent excessive loss of fluid from the cylinder.
 - g. The hoses shall be of reinforced construction and utilize JIC fittings throughout.
 - h. The hoses feeding the front movable lift carriage shall be supported and contained by a cable carrier to prevent the hoses from dragging or tangling.
 - i. The lift shall be driven by two individual power units, readily available as an off-the-shelf component.
6. Adapters:
- a. The lift system shall include a variety of axle engaging accessory adapters designed to raise heavy vehicles by the axles or chassis. The accessory adapters shall be easily removed for storage and/or change out.
 - b. Adapter Adjustment: Minimum 13.25 inches (337 mm); Maximum 56 inches (1422 mm).
 - c. Bolster Width: 40 inches (1016 mm) minimum.

- d. Bolster and Base Adapters for all lifting units shall recess below finished floor.
- e. Base adapters shall be restrained to prevent over extension.
- f. Removal of base adapters shall be accomplished by pulling-up a spring loaded pin and sliding the base adapter off the bolster.
- g. The base adapter shall have at least a five hole pattern that will allow every accessory adapter to be used in the reverse direction, allowing up to eight positions of the accessory adapter on the base adapter.

7. Controls:

- a. The control system shall conform to all current NEC, UL 201 and OSHA codes.
- b. The control system shall be PCB operated and continuously monitor all operating functions and safety systems of the lifting units. The control system shall utilize intrinsically safe inclinometers to constantly monitor the elevation of the lifting units to ensure synchronized operation. Synchronization through flow control valves is not acceptable. Control systems that do not constantly monitor the elevation of all lifting units are not acceptable.
- c. The control system shall have a provision to allow the operator to electronically restrict the maximum lifting height.
- d. The control system shall provide audio and visual feedback that communicates with the operator. The control system shall facilitate troubleshooting by providing no less than 44 fault codes displayed in numeric fashion on the PCB.
- e. The enclosure for electrical control components shall be IP 54 rated and have the following controls mounted on the front cover
 - 1) Disconnect switch, 3 phase
 - 2) Push buttons for Lift Raise, Lower and Unlock
 - 3) Selector button for synchronized, moveable, or fixed lifting
 - 4) Push buttons for hydraulic moveable carriage drive
- f. The control console shall be equipped with a main power disconnect switch which interrupts all incoming power. Main power disconnect shall be lock-out capable.
- g. Console access panels shall have key-hole slots and recessed handles for easy removal and installation.
- h. The control system shall include, on the control box face, a blue HOME indicator lamp. This lamp shall illuminate when all lifting units are fully retracted to inform the operator that the bay is clear to allow entry and exit by the vehicle.
- i. The control system shall automatically prohibit horizontal movement of the moveable lifting unit when raised above 12 inches A.F.F.
- j. The control system shall have a provision to allow the operator to open the mechanical locks during rising to reduce noise emission.
- k. The lift, when fitted with the proper electrical motor, shall operate at the following voltages: 208 (3 phase)

8. Automatic Wheel Base Positioning

- a. The control system shall be equipped with an AWBP (automatic wheel base positioning) system that allows the operator to program not less than 16 wheelbase positions into the control system for reduced set up times. The AWBP system shall include a min. 4 inch color touch screen to allow the operator to select and program vehicle wheel bases. The AWBP system shall allow the operator to store wheel base positions by vehicle brand and year or license plate for ease of use and safety to avoid selection of the incorrect vehicle. Additionally, the color LCD touch screen shall be utilized to display AWBP related error messages and instructions. Once a vehicle has been selected, the moveable lifting unit shall travel to the pre-programmed position without interruptions or stops.

9. Wired Remote Control:

- a. The lift shall be equipped with an ergonomic industrial remote control, rated for use in NEC Class 1, Div. 2, hazardous locations.
- b. Remote control shall be connected to the control console through a multi-conductor cable with military-style DIN connector. Standard cable length shall be 35 feet. (10.6 m)
- c. Remote control shall allow full function control of the lift, with the following:
 - 1) Push/Pull E-Stop Button
 - 2) Push buttons for Lift Raise, Lower and Unlock
 - 3) Selector button for synchronized lifting
 - 4) Push buttons for hydraulic moveable carriage drive
- d. Remote control shall be equipped with an emergency E-Stop button that de-energizes power to all outputs of the PCB. Re-activation of the control system requires resetting the E-Stop and re-energizing the control system.
- e. The control box shall have a provision to disable operation of the remote control during lowering when the bolster is below 12 inches A.F.F.

10. Safety Devices:

- a. Each lifting unit shall be equipped with double lock jaw, gravity engaging, mechanical locks with the first lock position engaging at a minimum height of 18 inches (457 mm).
- b. Number of Mechanical Lock Stops: 12, minimum.
- c. Vertical height spacing between each lock stop: 6 inches (152 mm), maximum.
- d. The mechanical locks shall be made of high strength T-1 steel.
- e. All push buttons shall be of momentary contact, dead man type.

11. HOME Beacon Stack Light:

- a. The lift shall be equipped with an external HOME beacon stack light. This beacon light shall turn green when all lifting units are fully retracted to inform the operator that the bay is clear to allow entry and exit by the vehicle. When one or more lifting units are not fully lowered the beacon

light shall turn red to inform the operator that the bay is not clear and it is not safe to move the vehicle into or out of the bay.

- b. The beacon light shall have the option to be mounted in a remote location (e.g. by the bay door) for optimum visibility.

2.2 SCISSORS STYLE IN-GROUND LIFTS

A. Scissor style in-ground Lift Model ECO90 as manufactured by Stertil-Koni USA, Inc.

1. General Description:

- a. The lift shall consist of three lifting units in line with the longitudinal axis of the vehicle, each lifting unit so equipped as to engage the axle, suspension, and/or frame as specified herein. Two of the two lifting units shall be movable fore and aft to affect variable spacing between lifting mechanisms. The other lifting unit shall be fixed.

2. Lifting Capacity:

- a. Lift shall be capable of raising 90,000 lbs. (40,826 kg), 30,000 lbs. (13,608 kg) each fixed/ 30,000 lbs. (13,608 kg) each movable lifting unit.
- b. Unbalanced Loads, Movable to Fixed: Lift shall be capable of raising 30,000 lbs (13,608 kg) on one unit and 0 lbs (0 kg) on the other unit.

3. Dimensions:

- a. The lifting height shall be no less than 70 inches (1,780 mm) as measured from the point of adapter contact at full rise to the finished floor.
- b. Lifting Rate: 90 seconds; 45 inches (1,140 mm) per minute, minimum.
- c. Maximum depth below finished floor for any structural component or member: 34 inches (864 mm) maximum.
- d. Movable and fixed lifting unit synchronization: 2 inches (51 mm).
- e. Travel range for the movable lifting unit shall be as follows, depending on selected model:

- 1) ECO 90-17-xx: 204 inches (5,182 mm)

4. Lifting Units:

- a. Lifting units and continuous recess inserts shall be completely removable with no lift components or structural framing permanently embedded in the concrete.
- b. Lifting units shall be hydraulically powered, mechanically articulating scissors, complete with a mechanical locking system.
- c. All steel surfaces shall be powder coated.
- d. By means of a centering link, the lifting unit structure shall articulate symmetrically about the center axis of the lift unit as it raises and lowers.

5. Movable Lifting Units:

- a. The movable lifting unit shall relocate horizontally fore and aft while in the fully retracted position.
- b. When the entire continuous recess insert has the covers in place and the lift is operational, it shall form a continuous recess that shall meet the following design and performance criteria:
 - 1) The movable lifting unit shall not be required to recess, or park, in only one "pocketed" location, providing increased productivity in servicing fleet vehicles of varying wheelbases.
 - 2) The movable lifting unit may be recessed below finished floor at any position between the minimum and maximum dimensions of the travel range.
 - 3) The movable lifting unit shall be capable of fore and aft travel while recessed below floor.
- c. Maximum depth below finished floor for the continuous recess insert, rear lifting unit or any fixed or movable component shall be 34 inches (864 mm).
- d. The movable steel box insert shall have an open floor design, mounted off the concrete floor of the trench to allow for the collection, cleaning and drainage of all liquids and solids that accumulate in the trench.
- e. The aluminum covers for the movable mechanism shall be anodized structural 6061 aluminum extrusions engineered to accept a 7,500 lb. (3,402 kg) point load on a contact area of 2 x 2 inches (50 x 50 mm) and shall be shaped to include a full-length interlocking hinge. Covers shall fit together tightly and uniformly to promote smooth travel so as to prevent jamming and twisting. The covers shall be able to accept a 13,500 lb. (6,123 kg.) drive over load on a 6 x 9 inch (152 x 228 mm) contact area.
- f. The aluminum covers for the movable mechanism shall be attached to UHMW slider blocks for reduced friction and increased longevity. These slider blocks shall keep the covers properly centered at all times. Horizontal grooves in the UHMW sliders shall, together with half-moon shaped guide rails in the end section of the lift's steel box insert, securely guide the covers as they travel in and out of the recess.
- g. Transition plates shall be bolted to the continuous recess insert to provide for a flush and smooth transition from the shop floor to the aluminum covers. The transition plates also shall assist the cover travel by holding the covers down so they can't buckle during horizontal travel.
- h. The aluminum covers for the movable mechanism shall be flush with the finished floor within a tolerance of less than 1/8 inch. Covers that are lower than the finished floor shall not be acceptable.
- i. The movable lifting unit and the covers shall bear on and slide over UHMW surfaces for low friction and minimal maintenance.
- j. The hydraulically powered carriage drive shall utilize a rack and gear arrangement on both the left and right sides for smooth and even fore-aft travel without binding.
- k. The rack shall be inverted and positioned under the load channel of the movable lifting unit insert where it is protected so as not to collect dirt, grease etc.

- i. All hydraulic and compressed air service lines shall be fed from the control console to the movable lifting unit insert through one PVC chase way per lifting unit.
 - m. All low voltage, intrinsically safe electric service lines shall be fed from the control console to the movable lifting unit insert through one $\frac{3}{4}$ inch rigid conduit per lifting unit, installed to meet local requirements.
- 6. Fixed Lifting Unit:
 - a. The fixed lifting unit shall be bolted in place with eight each 7/8 inch (22 mm) stainless steel anchors.
- 7. Hydraulic System:
 - a. System shall be comprised of three high pressure, low volume, single acting, 7 inch (178 mm) diameter cylinders, one in each lifting unit.
 - b. The hydraulic system shall be a power up / gravity down design. Lifts that rely on the power units to run during the lowering cycle shall not be acceptable due to increased power consumption and wear.
 - c. High pressure seals shall be internal to the cylinder, where they are protected from salt, dirt, etc.
 - d. Each cylinder shall require no more than 3.5 gallons (13.25 liters) of hydraulic fluid for lifting to full height.
 - e. Combined, the three cylinders shall only require 10.5 gallons (39.75 l) of AW 15 hydraulic fluid for lifting to full height.
 - f. Each cylinder shall have a hose break velocity fuse (safety check valve) integrally mounted to prevent excessive loss of fluid from the cylinder.
 - g. The hoses shall be of reinforced construction and utilize JIC fittings throughout.
 - h. The hoses feeding the movable lift carriage shall be supported and contained by a cable carrier to prevent the hoses from dragging or tangling.
 - i. The lift shall be driven by three individual power units, readily available as an off-the-shelf component.
- 8. Adapters:
 - a. The lift system shall include a variety of axle engaging accessory adapters designed to raise heavy vehicles by the axles or frame. Adapters shall be either axle or frame oriented. Spinning adapters shall not be acceptable due to risk of accidental rotation during vehicle spotting and setup.
 - b. The base adapter shall have at least a five hole pattern that will allow every accessory adapter to be used in the reverse direction, allowing up to eight positions of the accessory adapter on the base adapter.
 - c. Sliding base adapters shall be restrained to prevent over extension.
 - d. Bolster and base adapters for all lifting units shall recess below finished floor.
 - e. Adapter Adjustment: Minimum 13.25 inches (337 mm); Maximum 56 inches (1,422 mm).
 - f. Bolster Width: 40 inches (1,016 mm) minimum.

9. Controls:

- a. The control system shall conform to all current NEC, UL 201 and OSHA codes.
- b. The control system shall be PCB operated and continuously monitor all operating functions and safety systems of the lifting units.
- c. The control system shall utilize intrinsically safe inclinometers to constantly monitor the elevation of the lifting units to ensure synchronized operation.
- d. The control system shall allow the user to adjust the sensitivity of the electronic synchronization without the use of special tools, within the absolute limits of ANSI/ALI ALCTV standard.
- e. The control system shall have the ability to receive regular software updates/upgrades as control system advances become available. All updates/upgrades shall be possible through data transfer without the need for component replacement.
- f. On the face of the control console, control elements shall include:
 - 1) "UP" button.
 - 2) "Down" button.
 - 3) "Lock release" button.
 - 4) "Confirm" button
 - 5) A high definition 7 inch (178 mm) LCD screen touch screen. The touch screen shall be specifically designed for a harsh workshop environment. The touch screen shall provide systems information, but operation of the lift shall be initiated by the primary operational buttons. The touch screen shall include a removable micro-SD memory card for storage of user configurable information. The touch screen shall be capable of providing the following functions:
 - a) "Lifting unit selection" indicator: displays to the operator which lifting units in the lift have been selected for operation. The display illustrates the ability to operate the lifting units singularly, or groups of lifting units as synchronized sets.
 - b) "Lifting unit height" indicator: displays to the operator the height of each individual lifting unit. The height indicator shall also provide, on the touch screen, a clear indicator if the lifting unit has been set to stop at a restricted lifting height.
 - c) "Lifting units fully lowered" indicator: displays to the operator that all lifting units are fully retracted into the ground to inform the operator that the bay is clear to allow entry and exit by the vehicle.
 - d) "Error message" indicator: displays to the operator when a fault code has been registered by the control system, the touch screen shall inform the operator of any fault situations being present in the lift. The control system shall have the ability to display error messages including fault description on the screen.
 - e) One-touch access to the Guide screen: This area of the touch screen provides to the operator:

- i. Owner information
- f) One-touch access to the Information screen: This area of the touch screen provides to all users:
 - i. Owner information
 - ii. Contact information for service provider
 - iii. Equipment time log including lifting unit run times
- g) One-touch access to the Settings screen which displays various options. The settings screen shall allow control of:
 - i. Settings screen option (1): authorized users shall have the ability to change the language (English, Spanish, French) displayed on the screen as well as the units of measure for height and weight (imperial or metric units).
 - ii. Settings screen option (2): authorized users shall have the ability to retract the mechanical locks during raising for reduced noise, as well as to set a restricted maximum lifting height.
 - iii. Access to the Shop and Assistance screens: from the Settings screen, authorized users shall have the ability to control the service settings.
- h) One-touch access to the Shop configuration screen options which is PIN protected. The shop configuration screen shall allow adjustment of:
 - i. Edit of owner's details: allows the ability to edit the information displayed on the Owner's field.
- i) One-touch access to the Assistance configuration screen which displays various options and is PIN protected. The maintenance configuration screen shall allow adjustment of:

Screen 1

- i. Initiation of crush protection which guards against a crushing hazard during lowering when using the optional remote control. This safety system, when enabled, will interrupt lowering as the lift reaches 18 inches (457 mm) above finished floor. At that time, the operator needs to return to the control console and continue the lowering cycle by utilizing the control buttons located on the face of the control console.
- ii. Ability to disable height difference monitoring to aid in trouble shooting. Once initiated, this control system option allows the maintainer to operate the lifting system outside normal safety

limits. This system is only for use by the lift system maintainer during repair procedures. This system option will automatically be disabled and the control system returned to default operating parameters after 10 minutes.

Screen 2

- i. Ability to view lift system run time to properly plan for lift system maintenance.
- ii. Ability to view individual lifting unit motor run time to properly plan for lift system maintenance.

Screen 6

- i. This screen shall allow back up of the operating system

Screen 7

- i. This screen shall display operating system information

- g. The enclosure for electrical control components shall be IP 54 rated.
- h. The control console shall be equipped with a main power disconnect switch which interrupts all incoming power. Main power disconnect shall be lock-out capable.
- i. Control console access panels shall have key-hole slots and recessed handles for easy removal and installation.
- j. The control system shall automatically prohibit horizontal movement of the movable lifting unit when raised above 12 inches (305 mm) above finished floor. This parameter shall be user programmable without the use of special tools.
- k. The lift, when fitted with the proper electrical motors, shall operate at the following voltages: 208 (3 phase)

10. Safety Devices:

- a. Each lifting unit shall be equipped with double lock jaw, gravity engaged, mechanical locks with the first lock position engaging at a minimum height of 18 inches (457 mm).
- b. Number of Mechanical Lock Stops: 12, minimum.
- c. Vertical height spacing between each lock stop: 6 inches (152 mm), maximum.
- d. The mechanical locks shall be made of high strength T-1 steel.
- e. All push buttons shall be of momentary contact, dead man type.

11. Automatic Wheel Base Positioning:

- a. The control system shall be equipped with an AWBP (automatic wheel base positioning) system that allows the operator to program an infinite number of wheelbase positions into the control system for reduced set up times. The AWBP system shall be controlled via the 7 inch (178 mm)

color touch screen to allow the operator to select and program vehicle wheel bases. The AWBP system shall allow the operator to store wheel base positions by vehicle brand and year or license plate for ease of use and safety to avoid selection of the incorrect vehicle.

- b. Once a vehicle has been selected, the movable lifting unit shall travel to the pre-programmed position without interruptions or stops.

12. Wired Remote Control:

- a. The lift shall be equipped with an ergonomic industrial remote control, rated for use in NEC Class 1, Div. 2, hazardous locations.
- b. Remote control shall be connected to the control console through a multi-conductor cable with military-style DIN connector. Standard cable length shall be 35 feet. (10.6 m)
- c. Remote control shall allow full function control of the lift, with the following:
 - 1) Push/Pull E-Stop Button
 - 2) Push buttons for Lift Raise, Lower and Unlock
 - 3) Selector button for synchronized (group) or single operation
 - 4) Push buttons for hydraulic movable carriage drive
- d. Remote control shall be equipped with an emergency E-Stop button that de-energizes power to all outputs of the PCB. Re-activation of the control system requires resetting the E-Stop and re-energizing the control system.
- e. The control box shall have a provision to disable operation of the remote control during lowering when the bolster is below 18 inches (457 mm) above finished floor.

13. HOME Beacon Stack Light:

- a. The lift shall be equipped with an external HOME beacon stack light. This beacon light shall turn green when all lifting units are fully retraced to inform the operator that the bay is clear to allow entry and exit by the vehicle. When one or more lifting units are not fully lowered the beacon light shall turn red to inform the operator that the bay is not clear and it is not safe to move the vehicle into or out of the bay.
- b. The beacon light shall have the option to be mounted in a remote location (e.g. by the bay door) for optimum visibility.

2.3 VERTICAL STORAGE UNIT #1 – TIRES

A. Motorized Carousel

- a. Model: #HT54288-0963-SV12 - Custom
- b. Capacity: Max per size
- c. Carrier width: 15'-0"
- d. Height: 15'-0"
- e. Carousel width: 14'-11"
- f. Depth: 9'-4"

2.4 VERTICAL STORAGE UNIT #2 – PARTS

A. Motorized Carousel

- a. Model: #P1812-24-120 - Custom
- b. Height: 16'-3"
- c. Width: 12'-0"
- d. Depth: 6'-3"
- e. Carrier QTY: Max per size

2.5 ACCEPTABLE MANUFACTURERS:

- A. Stertil Koni - Lifts
- B. Vidmar – Vertical Storage Units

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until supporting structures have been properly prepared.
- B. If supporting structures preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Transmit submittals and deliverables required by this section.
- B. Furnish product as indicated.
- C. Ensure that substrates are in suitable condition to receive the work of this section.
- D. Clean surfaces thoroughly prior to installation.
- E. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 FABRICATION

- A. Fabricate equipment in accordance with all specifications and approved drawings.

3.4 INSTALLATION

- A. Prior to commencing any on-site work, contractor shall provide facility all the construction details for the lift along with requirements for any specialty embedded items associated with lifts. The contractor and lift installer will closely coordinate requirements during installation phase. Installer shall provide and install materials required for complete and operable installation as indicated on manufacturer's installation drawings.
- B. Provide 3-inch high concrete service pad with chamfered edges under control console.

- C. Install in accordance with manufacturer's instructions.
- D. Test for proper operation, and re-test if necessary, until satisfactory results are obtained.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before substantial completion.

3.6 START-UP DEMONSTRATION

- A. Following installation, the equipment installer shall perform an acceptance test as recommended by the manufacturer. Prior to the test, submit a testing program for approval. The program shall show that the equipment meets all of the conditions described by this specification and that the equipment will perform as intended. Notification of Start-Up Demonstration will be scheduled two weeks in advance of the estimated date.

3.7 TRAINING

- A. After completion of installation the installer shall provide a training program to all operating personnel to correctly demonstrate operation and maintenance procedures of the equipment.
- B. As a minimum training shall include: (1) Proper use and maintenance procedures of the lift; (2) safety features; (3) Cleaning procedures; (4) Proper methods for storage and handling of materials, including troubleshooting; and (5) Servicing, adjusting, routine preventative maintenance.

END OF SECTION 14 40 00

SECTION 221519 - AIR COMPRESSORS AND RECEIVERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Standard Specifications, Proposal Documents, Special Provisions, Supplemental Specifications, Bid Item Manual and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Lubricated, reciprocating air compressors.

1.3 DEFINITIONS

- A. Actual Air: Air delivered from air compressors. Flow rate is delivered compressed air measured in acfm.
- B. Standard Air: Free air at 68 deg F and 1 atmosphere (29.92 in. Hg) before compression or expansion and measured in scfm.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Operation and Maintenance Data: For compressed-air equipment to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. ASME Compliance: Fabricate and label receivers to comply with ASME Boiler and Pressure

Vessel Code.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR PACKAGED AIR COMPRESSORS AND RECEIVERS

- A. General Description: Factory-assembled, -wired, -piped, and -tested; electric-motor-driven; air-cooled; continuous-duty air compressors and receivers that deliver air of quality equal to intake air.
- B. Control Panels: Automatic control station with load control and protection functions. Comply with NEMA ICS 2 and UL 508.
 - 1. Enclosure: NEMA ICS 6, Type 12 control panel unless otherwise indicated.
 - 2. Motor Controllers: Full-voltage, combination magnetic type with under voltage release feature and motor-circuit-protector-type disconnecting means and short-circuit protective device.
 - 3. Control Voltage: 120-V ac or less, using integral control power transformer.
 - 4. Motor Overload Protection: Overload relay in each phase.
 - 5. Starting Devices: Hand-off-automatic selector switch in cover of control panel, plus pilot device for automatic control.
- C. Receivers: Steel tank constructed according to ASME Boiler and Pressure Vessel Code: Section VIII, Division 1.
 - 1. Pressure Rating: At least as high as highest discharge pressure of connected compressors, and bearing appropriate code symbols.
 - 2. Interior Finish: Corrosion-resistant coating.
 - 3. Accessories: Include safety valve, pressure gage, drain, and pressure-reducing valve.
- D. Mounting Frame: Fabricate mounting and attachment to pressure vessel with reinforcement strong enough to resist packaged equipment movement during a seismic event when base is anchored to building structure.

2.2 ROTARY-SCREW AIR COMPRESSORS

- A. Rotary-Screw Air Compressors:

AIR COMPRESSORS AND RECEIVERS

221519 - 2

MEAD & HUNT, Inc.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:

- a. Ingersoll Rand.
- b. Kaeser.
- c. Quincy.

2. Description: Packaged unit.

3. Air Compressor(s): Single-stage, oil-lubricated rotary-screw type with lubricated helical screws and lubricated gearbox, and of construction that prohibits oil from entering compression chamber.

- a. Cooling/Lubrication System: Unit-mounted, air-cooled exchanger package pre-piped to unit; with air-pressure circulation system with coolant stop valve, full-flow coolant filter, and thermal-bypass valve.
- b. Air Filter: Dry type, with maintenance indicator and cleanable replaceable filter element.
- c. Air/Coolant Receiver and Separation System: 150-psig- rated steel tank with ASME safety valve, coolant-level gage, multistage air-coolant separator element, minimum pressure valve, blowdown valve, discharge check valve, coolant stop valve, full-flow coolant filter, and thermal-bypass valve.
- d. Capacity Control: Capacity modulation between zero and 100 percent air delivery, with operating pressures between 50 and 100 psig. Include necessary control to hold constant pressure. When air demand is zero, unload compressor by using pressure switch and blowdown valve.
- e. Mounting: Freestanding.

4. Sound-attenuation enclosure.

B. Capacities and Characteristics:

- 1. Compressed-Air Service: Shop air.
- 2. Air Compressor(s): One.
- 3. Standard-Air Capacity of Each Air Compressor: 335 scfm free air.
- 4. Actual-Air Capacity of Each Air Compressor: 300 acfm delivered.
- 5. Discharge-Air Pressure: 135.
- 6. Discharge-Air Temperature: 100° F or less.
- 7. Motor (Each Air Compressor):
 - a. Horsepower: 75.
 - b. Speed: 1531 rpm.
- 8. Electrical Characteristics:
 - a. Volts: 460.

- b. Phase(s): Three.
 - c. Hertz: 60.
 - d. Full-Load Amperes: 101.
 - e. Maximum Overcurrent Protection: 150 amperage.
9. Receiver: ASME construction steel tank.
- a. Orientation: Vertical arrangement.
 - b. Capacity: See drawing schedule
 - c. Interior Finish: Epoxy.
 - d. Pressure Rating: 150 psig minimum.
 - e. Pressure Regulator Setting: See drawing schedule
 - f. Pressure Relief Valve Setting: 135 psig.
 - g. Drain: Automatic valve.

2.3 INLET-AIR FILTERS

- A. Description: Combination inlet-air filter-silencer, suitable for remote installation, for each air compressor.
- 1. Construction: Weatherproof housing for replaceable, dry-type filter element, with silencer tubes or other method of sound reduction.
 - 2. Capacity: Match capacity of air compressor, with filter having collection efficiency of 99 percent retention of particles larger than 10 micrometers.

2.4 Refrigerant Compressed-Air Dryers

- A. Description: Noncycling, air-cooled, electric-motor-driven unit with steel enclosure and capability to deliver 35 deg F, 100-psig air at dew point. Include automatic ejection of condensate from airstream, step-down transformers, disconnect switches, inlet and outlet pressure gages, thermometers, automatic controls, and filters.

2.5 MOTORS

- A. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified in Division 22 Section "Common Motor Requirements for Plumbing Equipment."
- 1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
 - 2. Controllers, Electrical Devices, and Wiring: Comply with requirements for electrical devices and connections specified in Division 26 Sections.

PART 3 - EXECUTION

3.1 EQUIPMENT INSTALLATION

- A. Equipment Mounting: Install air compressors and air dryers anchored to concrete bases using elastomeric pads. Comply with requirements in Division 03 Section "Cast-in-Place Concrete."
- B. Arrange equipment so controls and devices are accessible for servicing.
- C. Maintain manufacturer's recommended clearances for service and maintenance.
- D. Install the following devices on compressed-air equipment:
 - 1. Pressure Gage and Safety Valve: Install on each compressed-air receiver.
 - 2. Pressure Regulators: Install downstream from air compressors and dryers.
 - 3. Automatic Drain Valves: Install on filters and dryers. Discharge condensate over nearest floor or open site drain.

3.2 CONNECTIONS

- A. Comply with requirements for piping specified in Division 22 Section "General-Service Compressed-Air Piping." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to machine to allow service and maintenance.

3.3 IDENTIFICATION

- A. Identify general-service air compressors and components. Comply with requirements for identification specified in Division 22 Section "Identification for Plumbing Piping and Equipment."

3.4 STARTUP SERVICE

- A. Perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.

2. Verify that air-compressor inlet filters and piping are clear.
3. Check for equipment vibration-control supports and flexible pipe connectors and verify that equipment is properly attached to substrate.
4. Check safety valves for correct settings. Ensure that settings are higher than air-compressor discharge pressure but not higher than rating of system components.
5. Drain receiver tanks.
6. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
7. Test and adjust controls and safeties.

3.5 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain air compressors and dryers.

END OF SECTION 221519

**SECTION 22 31 00
DOMESTIC WATER SOFTENERS**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
1. Commercial Water softeners.
 2. Chemicals.
 3. Water-testing sets.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for water softeners.
 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
 3. Wiring Diagrams: For power, signal, and control wiring.
- B. Operation and Maintenance Data: For water softeners to include in emergency, operation, and maintenance manuals.

1.4 QUALITY ASSURANCE

- A. Product Options: Drawings indicate size, profiles, and dimensional requirements of water softeners and are based on the specific system indicated. Refer to Division 01 Section "Product Requirements."
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended application.
- C. UL Compliance: Fabricate and label water softeners to comply with UL 979, "Water Treatment Appliances."

1.5 COORDINATION

- A. Coordinate size and location of concrete bases. Cast anchor-bolt inserts into bases. Concrete, reinforcement, and formwork requirements are specified in Division 03.

1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of water softeners that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
 - a. Structural failures of mineral and brine tanks.
 - b. Faulty operation of controls.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal use.
 - d. Attrition loss of resin exceeding 3 percent per year.
 - e. Mineral washed out of system during service run or backwashing period.
 - f. Effluent turbidity greater and color darker than incoming water.
 - g. Fouling of underdrain system, gravel, and resin with turbidity or by dirt, rust, or scale from water softener or soft water, while operating according to manufacturer's written operating instructions.
 2. Warranty Period: 5 years from date of Substantial Completion.

1.7 MAINTENANCE SERVICE

- A. Maintenance: Submit four copies of manufacturer's "Agreement for Continued Service and Maintenance," before Substantial Completion, for Owner's acceptance. Offer terms and conditions for furnishing chemicals and providing continued testing and servicing to include replacing materials and equipment. Include one-year term of agreement with option for one-year renewal.

PART 2 - PRODUCTS

2.1 WATER SOFTENERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Culligan International Company.
 2. Diamond Water Systems, Inc.
 3. Hellenbrand Inc.
- B. Description: Factory-assembled, pressure-type water softener.
1. Standard: Comply with NSF 61 Annex, "Drinking Water System Components - Health Effects."
 2. Model: progressive/metered water softening system.
 3. Configuration: Twin unit with two mineral tanks and two brine tanks.
 4. Mounting: On housekeeping pad.
 5. Mineral Tanks: FRP, pressure-vessel quality.
 - a. Pressure Rating: 125 psig minimum.
 - b. Freeboard: 50 percent minimum for backwash expansion above normal resin bed level.

- c. Distribution System: Hub and radial-arm or header-lateral type; fabricated from nonmetallic pipe and fittings with individual, fine-slotted, non-clogging plastic strainers, and arranged for even flow distribution through resin bed.
- 6. Controls: Electronic programmable, fully automatic; factory wired, and factory mounted on unit.
 - a. Adjustable duration of various regeneration steps.
 - b. Push-button start and complete manual operation.
 - c. Electric time clock and switch for fully automatic operation, adjustable to initiate regeneration at any hour of day and any day of week or at fixed intervals.
 - d. Electronic water meter, adjustable to initiate regeneration according to time clock schedule or by volume override.
 - 7. Flow Control: Automatic, to control backwash and flush rates over wide variations in operating pressure; does not require field adjustments.
 - a. Demand-Initiated Control: Each mineral tank of twin mineral-tank unit is equipped with automatic-reset-head water meter that electrically activates cycle controllers to initiate regeneration at preset total in gallons. Head automatically resets to preset total in gallons for next service run. Electrical lockout prevents simultaneous regeneration of both tanks.
 - 8. Brine Tank: Combination measuring and wet-salt storing system.
 - a. Tank and Cover Material: Fiberglass, 3/16 inch thick; or molded PE, 3/8 inch thick.
 - b. Brine Valve: Float operated, and plastic fitted for automatic control of brine withdrawal and freshwater refill.
 - c. Size: 330lb each.
 - 9. Factory-Installed Accessories:
 - a. Piping, valves, tubing, and drains.
 - b. Sampling cocks.
 - c. Main-operating-valve position indicators.
 - d. Water meters.
- C. Capacities and Characteristics:
- 1. Water Analysis:
 - a. Hardness: 25 grains/gal. or ppm.

2.2 WATER-TESTING SETS

- A. Description: Manufacturer's standard water-hardness testing apparatus and chemicals with testing procedure instructions. Include metal container suitable for wall mounting.

PART 3 - EXECUTION

3.1 WATER SOFTENER INSTALLATION

- A. Equipment Mounting:
 - 1. Install water softeners on cast-in-place concrete equipment base(s).
- B. Install brine lines and fittings furnished by equipment manufacturer but not specified to be factory installed.
- C. Prepare mineral-tank distribution system and underbed for minerals and place specified mineral into mineral tanks.
- D. Install remote salt delivery system to the top of brine tanks and have delivery system piping piped to the outside of the building in a location a delivery truck can access.
- E. Install water-testing sets mounted on wall, unless otherwise indicated, and near water softeners.

3.2 CONNECTIONS

- A. Comply with requirements for piping specified in Section 22 11 16 "Supply Piping for Plumbing." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Where piping is installed adjacent to equipment, allow space for service and maintenance of equipment.
- C. Install shutoff valves on raw-water inlet and soft-water outlet piping of each mineral tank, and on inlet and outlet headers.
 - 1. Metal and plastic valves are specified in Section 22 05 23 "General-Duty Valves for Plumbing."
 - 2. Exception: Water softeners with factory-installed shutoff valves at locations indicated.
- D. Install pressure gages on raw-water inlet and soft-water outlet piping of each mineral tank. Pressure gages are specified in Section 22 05 19 "Meters and Gages for Plumbing."
 - 1. Exception: Water softeners with factory-installed pressure gages at locations indicated.
- E. Install valved bypass in water piping around water softeners.
 - 1. Metal and plastic valves are specified in Section 22 05 23 "General-Duty Valves for Plumbing." Water piping is specified in Section 22 11 16 "Supply Piping for Plumbing."
- F. Install drains as indirect wastes to spill into open drains or over floor drains or floor sinks.

3.3 IDENTIFICATION

- A. Identify system components. Comply with requirements for identification specified in Section 22 05 53 "Identification for Plumbing."

3.4 FIELD QUALITY CONTROL

- A. Tests and Inspections:
 - 1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 2. Operational Test: After electrical circuitry has been energized, start units to confirm proper unit operation.
 - 3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Water softeners will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

3.5 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.
- B. Add water to brine tanks and fill with salt:
- C. Sample water softener effluent after startup and at three consecutive seven-day intervals (total of four samples) and prepare certified test reports for required water performance characteristics. Comply with the following:
 - 1. ASTM D 859, "Test Method for Silica in Water."
 - 2. ASTM D 1067, "Test Methods for Acidity or Alkalinity of Water."
 - 3. ASTM D 1068, "Test Methods for Iron in Water."
 - 4. ASTM D 1126, "Test Method for Hardness in Water."
 - 5. ASTM D 1129, "Terminology Relating to Water."
 - 6. ASTM D 3370, "Practices for Sampling Water from Closed Conduits."

3.6 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain water softeners.

END OF SECTION 22 31 00

**SECTION 22 34 00
FUEL-FIRED, DOMESTIC-WATER HEATERS**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Commercial, gas-fired, high-efficiency, storage, domestic-water heaters.
2. Domestic-water heater accessories.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type and size of domestic-water heater indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fuel-fired, domestic-water heaters to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. ASHRAE/IESNA Compliance: Fabricate and label fuel-fired, domestic-water heaters to comply with ASHRAE/IESNA 90.1.
- C. NSF Compliance: Fabricate and label equipment components that will be in contact with potable water to comply with NSF 61 Annex G, "Drinking Water System Components - Health Effects."

1.6 COORDINATION

- A. Coordinate sizes and locations of concrete bases with actual equipment provided.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of fuel-fired, domestic-water heaters that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:
 - a. Structural failures including storage tank and supports.
 - b. Faulty operation of controls.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal use.
2. Warranty Periods: From date of Substantial Completion.
 - a. Commercial, Gas-Fired, Storage, Domestic-Water Heaters:
 - 1) Storage Tank: Five years.
 - 2) Controls and Other Components: Three year(s).
 - b. Compression Tanks: Five years.

PART 2 - PRODUCTS

2.1 COMMERCIAL, GAS-FIRED, STORAGE, DOMESTIC-WATER HEATERS

- A. Commercial, Gas-Fired, High-Efficiency, Storage, Domestic-Water Heaters:
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Bock Water Heaters.
 - b. Bradford White Corporation.
 - c. Heat Transfer Products, Inc.
 - d. Smith, A. O. Corporation.
 2. Description: Manufacturer's proprietary design to provide at least 95 percent combustion efficiency at optimum operating conditions.
 3. Storage-Tank Construction: Steel with 150-psig minimum working-pressure rating.
 - a. Tappings: Factory fabricated of materials compatible with tank. Attach tappings to tank before testing.
 - b. Interior Finish: Comply with NSF 61 Annex G barrier materials for potable-water tank linings, including extending finish into and through tank fittings and outlets.
 4. Factory-Installed Storage-Tank Appurtenances:
 - a. Anode Rod: Electronic anode system or replaceable magnesium anode.
 - b. Dip Tube: Required unless cold-water inlet is near bottom of tank.
 - c. Drain Valve: Corrosion-resistant metal complying with ASSE 1005.
 - d. Insulation: Comply with ASHRAE/IESNA 90.1. Surround entire storage tank except connections and controls.
 - e. Jacket: Steel with enameled finish.

- f. Burner or Heat Exchanger: Comply with UL 795 or approved testing agency requirements for gas-fired, high-efficiency, domestic-water heaters, and natural-gas fuel.
- g. Temperature Control: Adjustable thermostat.
- h. Safety Controls: Automatic, high-temperature-limit and low-water cutoff devices or systems.
- i. Combination Temperature-and-Pressure Relief Valves: ANSI Z21.22/CSA 4.4-M. Include one or more relief valves with total relieving capacity at least as great as heat input, and include pressure setting less than domestic-water heater working-pressure rating. Select one relief valve with sensing element that extends into storage tank.

2.2 DOMESTIC-WATER HEATER ACCESSORIES

- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. AMTROL, Inc.
 - b. Smith, A. O. Corporation.
 - c. Watts.
- 2. Description: Steel pressure-rated tank constructed with welded joints and factory-installed butyl-rubber diaphragm. Include air pre-charged to minimum system-operating pressure at tank.
- 3. Construction:
 - a. Tappings: Factory-fabricated steel, welded to tank before testing and labeling.
 - b. Interior Finish: Comply with NSF 61 Annex G barrier materials for potable-water tank linings, including extending finish into and through tank fittings and outlets.
 - c. Air-Charging Valve: Factory installed.

2.3 COMMERCIAL, GAS-FIRED, PRESSURE WASHER

A. Commercial, Gas-Fired, Pressure Washer:

- 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Hotsy.
 - b. Landa.
 - c. Alkota Cleaning Systems, Inc.
- 2. Description:
 - a. Burner: NG Fired, 365,000btu minimum capacity, AGA listed controls, ring type with aspirating spuds, natural gas.
 - b. All open flames and fire rings shall be mounted at minimum of 18 inches above the finished floor.

- c. Heating Coil: Vertically-fired, one inch outside diameter, hydrostatic-pressured tested; 14,900psi burst rating
 - d. Water pump: Triplex water pump with positive displacement, ceramic pluggers, brass manifold, and oil bath crankcase.
 - e. Fabrication: Welded angle iron Frame shall have heavy gauge tank and cabinet.
 - f. Supplier shall provide 1/2"inch outside diameter ASTM-A-312 Schedule 38 stainless steel piping. Provide ANSI/ASME B 31.3 stainless steel fittings. Provide piping from high-pressure wash unit to each trigger gun wand for a complete operable system.
 - g. Manufacturer shall supply all necessary soap system equipment including piping, fittings, distribution hose, and connections for a complete operable soap distribution system.
 - h. Programmable smart relay feature shall control over run time, auto start/stop and shut down functionality.
3. Controls:
- a. Adjustable temperature controller, safety pressure relief valve, pressure switch, ON/OFF electric motor switch with overload protection, unloader, water heater switch, detergent valve and automatic non-contaminating float valve.
 - b. 24v backdraft diverter in exhaust duct wired to PLC controls.
4. Accessories:
- a. Trigger gun (one trigger for each location)
 - b. Wall mounted remote control for hot/cold water.
 - c. 36 inch wand (one each per trigger gun location)
 - d. Nozzle (one each per trigger gun location)
 - e. Quick coupler (one each per trigger gun location)
 - f. Soap Solenoid and switch ((one each per trigger gun location)
 - g. Replacement nozzle: (one pack per trigger gun, pack of four, 4-1/2" millimeter with quick disconnect)
 - h. Draft diverter: (one per unit)
 - i. Reel (one each per trigger gun location)
 - j.

PART 3 - EXECUTION

3.1 DOMESTIC-WATER HEATER INSTALLATION

- A. Commercial, Domestic-Water Heater Mounting: Install commercial domestic-water heaters on concrete base. Comply with requirements for concrete base specified in Division 3.
- 1. Exception: Omit concrete bases for commercial domestic-water heaters if installation on stand, bracket, suspended platform, or directly on floor is indicated.

2. Maintain manufacturer's recommended clearances.
 3. Arrange units so controls and devices that require servicing are accessible.
 4. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around the full perimeter of concrete base.
 5. For supported equipment, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete floor.
 6. Place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
 7. Install anchor bolts to elevations required for proper attachment to supported equipment.
 8. Anchor domestic-water heaters to substrate.
- B. Install domestic-water heaters level and plumb, according to layout drawings, original design, and referenced standards. Maintain manufacturer's recommended clearances. Arrange units so controls and devices needing service are accessible.
1. Install shutoff valves on domestic-water-supply piping to domestic-water heaters and on domestic-hot-water outlet piping. Comply with requirements for shutoff valves specified in Section 22 05 23 "General-Duty Valves for Plumbing."
- C. Install gas-fired, domestic-water heaters according to NFPA 54.
1. Install gas shutoff valves on gas supply piping to gas-fired, domestic-water heaters without shutoff valves.
 2. Install gas pressure regulators on gas supplies to gas-fired, domestic-water heaters without gas pressure regulators if gas pressure regulators are required to reduce gas pressure at burner.
 3. Install automatic gas valves on gas supplies to gas-fired, domestic-water heaters if required for operation of safety control.
 4. Comply with requirements for gas shutoff valves, gas pressure regulators, and automatic gas valves specified in Section 23 11 23 "Facility Natural-Gas Piping."
- D. Install combination temperature-and-pressure relief valves in top portion of storage tanks. Use relief valves with sensing elements that extend into tanks. Extend commercial-water-heater relief-valve outlet, with drain piping same as domestic-water piping in continuous downward pitch, and discharge by positive air gap onto closest floor drain.
- E. Install water-heater drain piping as indirect waste to spill by positive air gap into open drains or over floor drains. Install hose-end drain valves at low points in water piping for domestic-water heaters that do not have tank drains. Comply with requirements for hose-end drain valves specified in Section 22 11 19 "Supply Piping Specialties for Plumbing."
- F. Install thermometer on outlet piping of domestic-water heaters. Comply with requirements for thermometers specified in Section 22 05 19 "Meters and Gages for Plumbing."
- G. Install piping-type heat traps on inlet and outlet piping of domestic-water heater storage tanks without integral or fitting-type heat traps.

- H. Fill domestic-water heaters with water.
- I. Charge domestic-water thermal expansion tanks with air.

3.2 CONNECTIONS

- A. Comply with requirements for domestic-water piping specified in Section 22 11 16 "Supply Piping for Plumbing."
- B. Comply with requirements for gas piping specified in Section 23 11 23 "Facility Natural-Gas Piping."
- C. Drawings indicate general arrangement of piping, fittings, and specialties.
- D. Where installing piping adjacent to fuel-fired, domestic-water heaters, allow space for service and maintenance of water heaters. Arrange piping for easy removal of domestic-water heaters.

3.3 IDENTIFICATION

- A. Identify system components. Comply with requirements for identification specified in Section 22 05 53 "Identification for Plumbing."

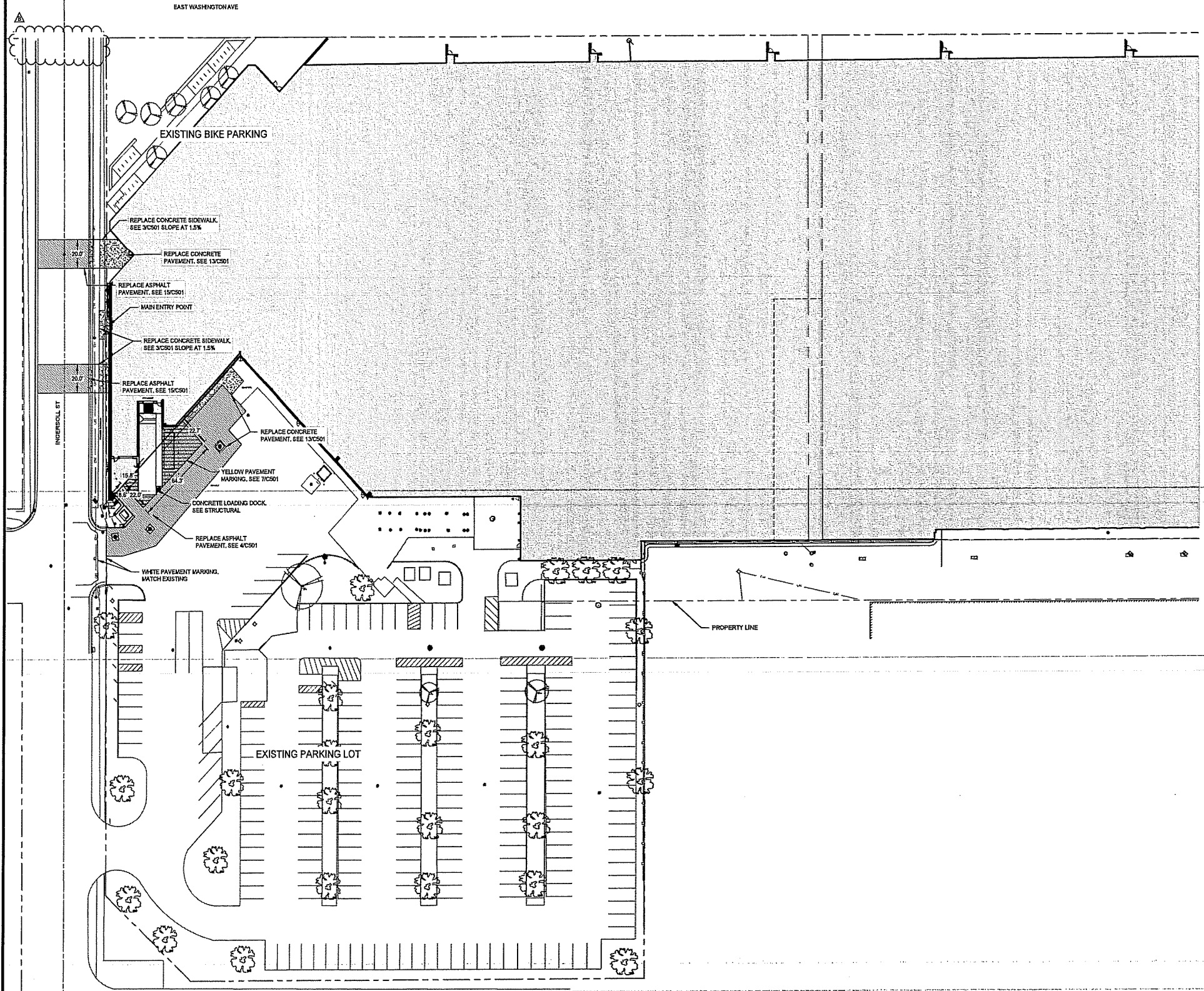
3.4 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
 - 2. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Domestic-water heaters will be considered defective if they do not pass tests and inspections.
- C. Prepare test and inspection reports.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain domestic-water heaters.

END OF SECTION 22 34 00

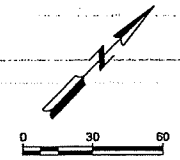
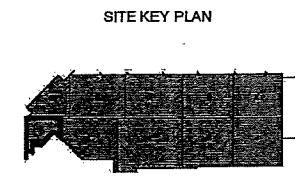


NOTES:

- 1) REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2) REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3) REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

LEGEND:

	BOLLARD
	FIRE HYDRANT
	LIGHT POLE
	STORM INLET, ROUND
	STORM SEWER MANHOLE
	WATER VALVE
	FENCE
	TEMPORARY CONSTRUCTION FENCE
	STORM SEWER / CULVERT
	WATER
	ASPHALT
	CONCRETE



Mead & Hunt
 Mead and Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com

KUENY ARCHITECTS, LLC



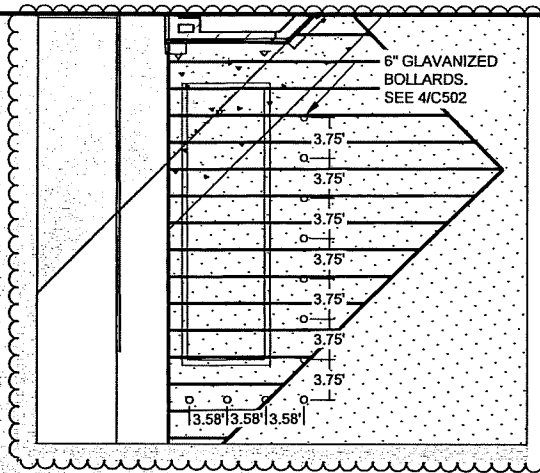
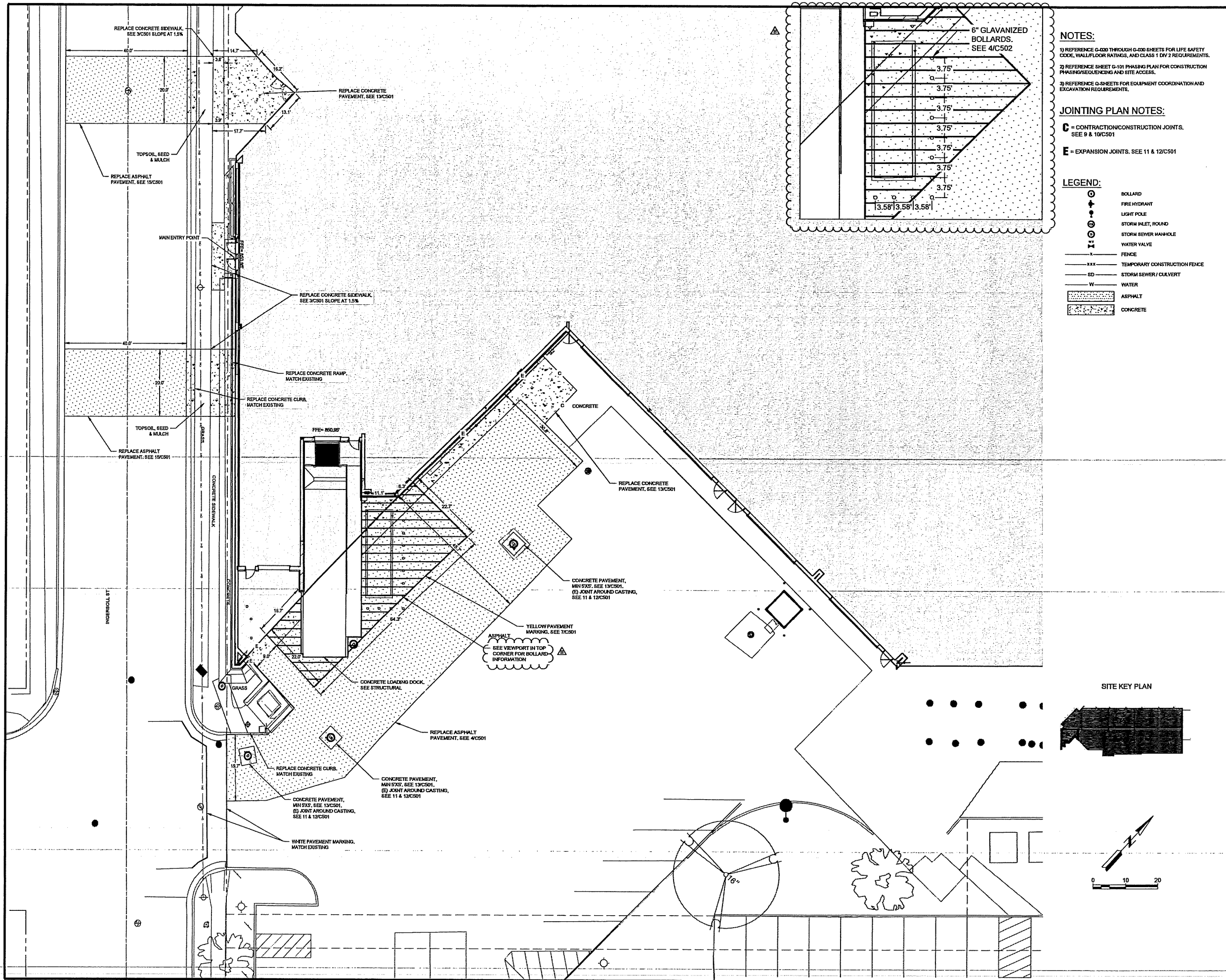
CITY OF MADISON
 METRO TRANSIT - PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1 SOUTH INGERSOLL ST.
 MADISON, WI 53708

04/08/21 BID SET
 05/13/21 ADDENDUM #2

CONTRACT NO: 8881
 PROJECT NO: 2020000-1-0000003
 DATE: APRIL 8, 2021
 DRAWN BY: ACA
 CHECKED BY: ACA
 DO NOT SCALE DRAWINGS

OVERALL SITE IMPROVEMENT PLAN
 SHEET NO.
C-101

ADDENDUM - 2



- NOTES:**
- 1) REFERENCE G-020 THROUGH G-020 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 - 2) REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 - 3) REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

- JOINTING PLAN NOTES:**
- C** = CONTRACTION/CONSTRUCTION JOINTS. SEE 9 & 10/C501
 - E** = EXPANSION JOINTS. SEE 11 & 12/C501

LEGEND:

	BOLLARD
	FIRE HYDRANT
	LIGHT POLE
	STORM INLET, ROUND
	STORM SEWER MANHOLE
	WATER VALVE
	FENCE
	TEMPORARY CONSTRUCTION FENCE
	STORM SEWER / CULVERT
	WATER
	ASPHALT
	CONCRETE

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FLUENT ARCHITECTS, LLC

**CITY OF MADISON
METRO TRANSIT - PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1 SOUTH INGERSOLL ST.
MADISON, WI 53703**

DATE: 04/09/21 BID SET
DATE: 05/13/21 ADDENDUM #2

CONTRACT NO. 8081
PROJECT NO. 4503500-15000001.03
DATE: APRIL 8, 2021
DRAWN BY: ACA
CHECKED BY: ACA
DO NOT SCALE DRAWINGS
BASED ON THE
SITE IMPROVEMENTS PLAN

C-102

ADDENDUM 2

These drawings shall not be used for any purpose other than that intended. The user assumes all liability for any use of these drawings for any purpose other than that intended. The user shall indemnify and hold Mead and Hunt, Inc. harmless from and against all claims, damages, losses, and expenses, including reasonable attorneys' fees, arising out of or from the use of these drawings for any purpose other than that intended. No warranty is made, in whole or in part, by Mead and Hunt, Inc.



**CITY OF MADISON
METRO TRANSIT - PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1 SOUTH INGERSOLL ST.
MADISON, WI 53703**

DATE: 04/06/21 BD SET
05/13/21 ADDENDUM #2

CONTRACT NO: B381
PROJECT NO: 4503500-150896.03
DATE: APRIL 8, 2021
DESIGNED BY: ACA
DRAWN BY: KSD
CHECKED BY: ACA
03/01/2021 BSCALE 03/01/2021

PROJECT CONTENTS
SITE UTILITY PLAN

PROJECT NO.

C-141

ADDENDUM 2

SITE KEY PLAN



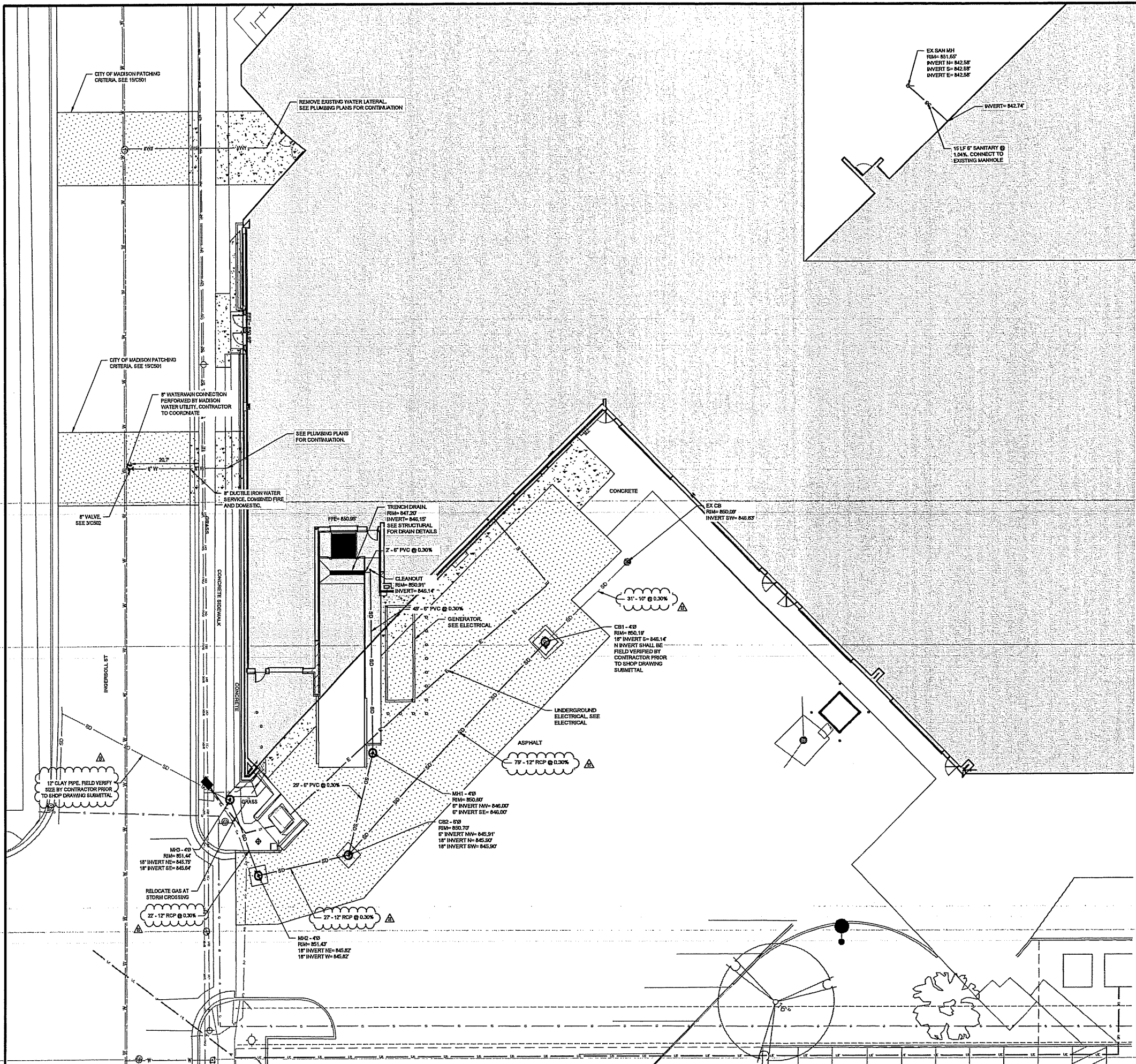
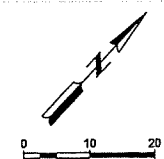
NOTES:

- 1) REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2) REFERENCE SHEET C-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3) REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

LEGEND:

- BOLLARD
- FIRE HYDRANT
- ⊙ LIGHT POLE
- STORM INLET, ROUND
- STORM SEWER MANHOLE
- WATER VALVE
- FENCE
- TEMPORARY CONSTRUCTION FENCE
- SD — STORM SEWER / CULVERT
- W — WATER
- W/WH — WATER REMOVAL
- ▨ ASPHALT
- ▩ CONCRETE

SITE KEY PLAN



CITY OF MADISON PATCHING CRITERIA, SEE 19C501

REMOVE EXISTING WATER LATERAL. SEE PLUMBING PLANS FOR CONTINUATION

CITY OF MADISON PATCHING CRITERIA, SEE 19C501

8" WATERMAIN CONNECTION PERFORMED BY MADISON WATER UTILITY. CONTRACTOR TO COORDINATE

SEE PLUMBING PLANS FOR CONTINUATION

6" VALVE. SEE 19C502

8" DUCTILE IRON WATER SERVICE, CONDENSED FIRE AND DOMESTIC.

TRENCH DRAIN. RIM= 841.20' INVERT= 840.15' SEE STRUCTURAL FOR DRAIN DETAILS
Z - 6" PVC @ 0.30%

CLEANOUT RIM= 850.91' INVERT= 848.14'

48" - 6" PVC @ 0.30%

GENERATOR. SEE ELECTRICAL

CONCRETE

31' - 10" @ 0.30%

ASPHALT

70' - 12" RCP @ 0.30%

29' - 6" PVC @ 0.30%

MH1 - 48" RIM= 850.89' 6" INVERT NW= 846.00' 6" INVERT SE= 846.00'

CE2 - 60" RIM= 850.70' 6" INVERT NW= 845.91' 6" INVERT SE= 845.90'

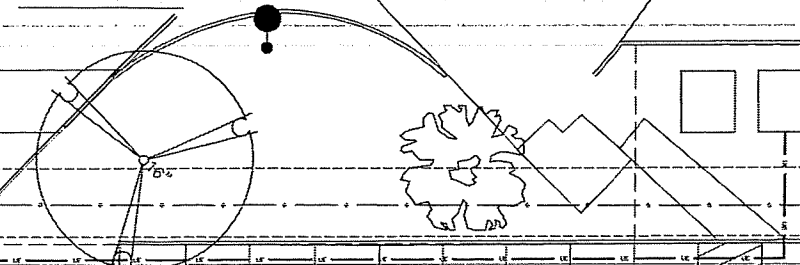
MH3 - 48" RIM= 851.44' 18" INVERT NE= 845.79' 18" INVERT SE= 845.84'

RELOCATE GAS AT STORM CROSSING

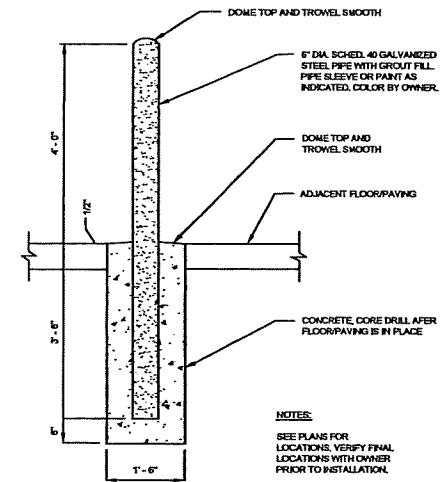
22' - 12" RCP @ 0.30%

27' - 12" RCP @ 0.30%

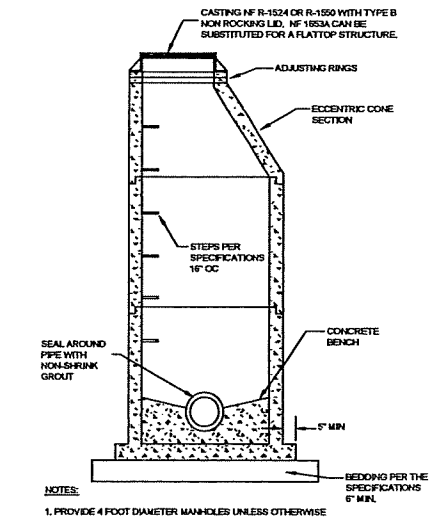
MH2 - 48" RIM= 851.43' 18" INVERT NE= 845.82' 18" INVERT SW= 845.82'



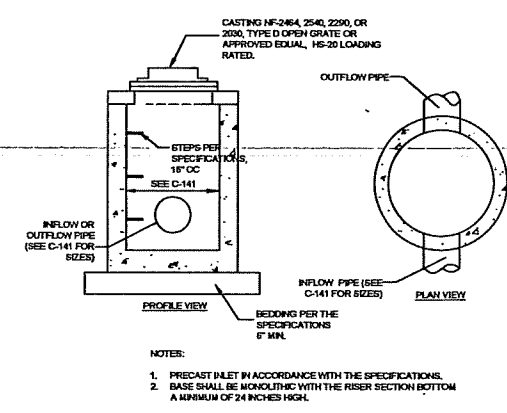
B



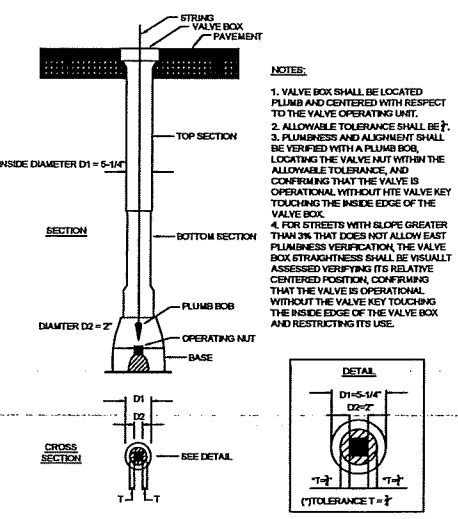
4 6" DIAMETER GALVANIZED BOLLARD POST DETAIL NOT TO SCALE



1 STORM MANHOLE DETAIL NOT TO SCALE



2 CATCH BASIN DETAIL NOT TO SCALE



3 WATER VALVE BOX ALIGNMENT DETAIL NOT TO SCALE

Mead & Hunt

Mead and Hunt, Inc. 2440 Deming Way Middleton, WI 53562 phone: 608-273-6380 meadhunt.com

LEWNEY ARCHITECTS, LLC

These drawings shall not be used for any purpose other than that for which they were prepared. No liability shall be assumed by the drafter for any errors or omissions, including those resulting from the use of these drawings for any purpose other than that for which they were prepared.



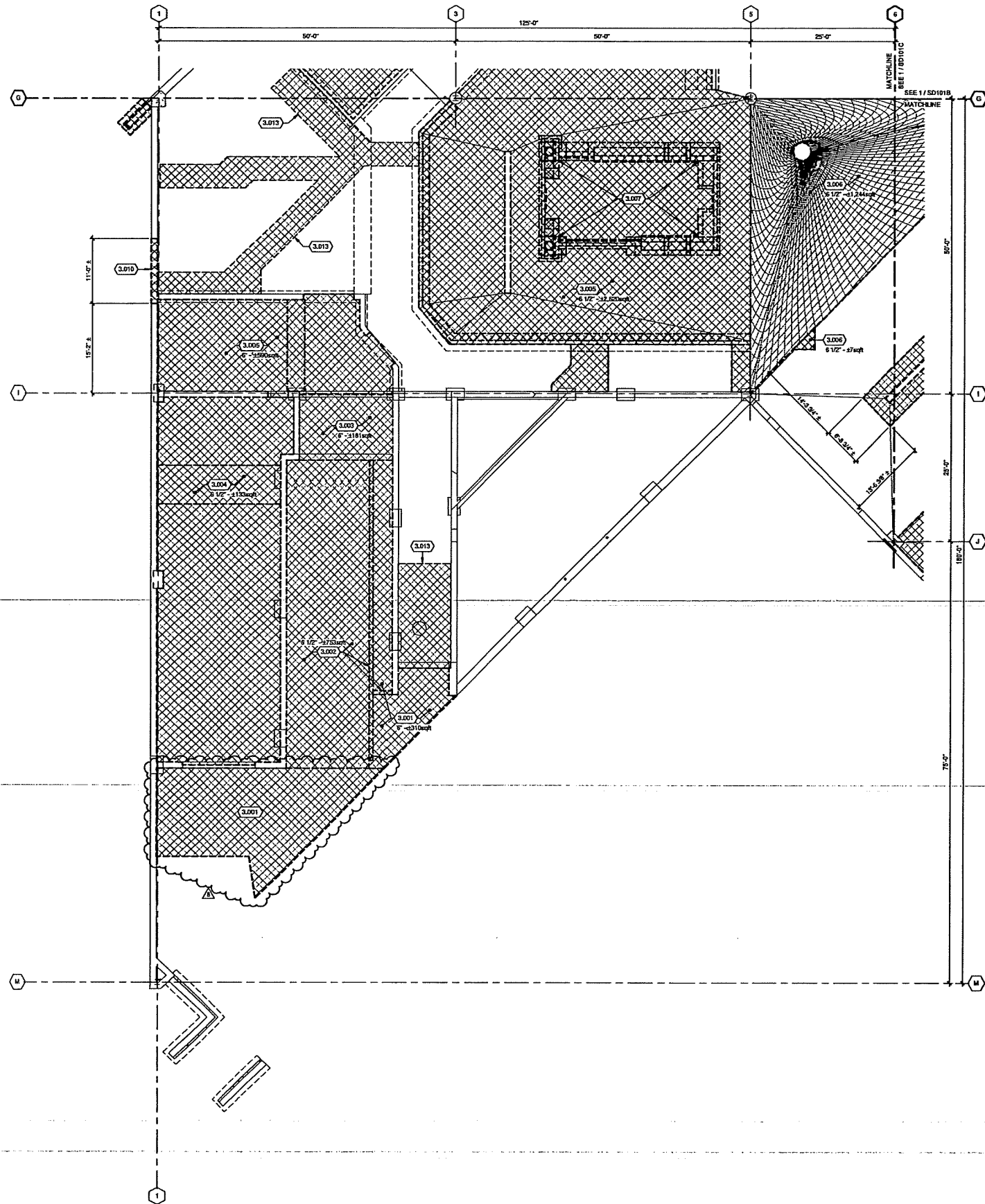
CITY OF MADISON METRO TRANSIT - PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS 1 SOUTH INGERSOLL ST. MADISON, WI 53703

04/08/21 BID SET 05/13/21 ADDENDUM #2

CONTRACT NO: 8091 DRAWING NO: 805000-1000000-0000 DATE: APRIL 8, 2021 DRAWN BY: ACA CHECKED BY: ACA DESIGNED BY: ACA (S) TOLERANCE T = 1/8"

C-502

ADD ENDUM 2



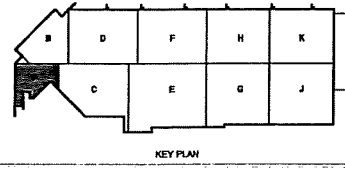
**FOUNDATION AND FLATWORK
DEMOLITION PLAN GENERAL NOTES:**

1. REFERENCE G-020 THROUGH G-026 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. *ATTENTION* FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.001 REMOVE EXISTING EXTERIOR SLAB AS SHOWN.
- 3.002 REMOVE EXISTING LOADING DOCK SLAB AND RETAINING WALLS AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.003 REMOVE EXISTING 2-WAY LOADING DOCK SLAB AS SHOWN, EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.004 REMOVE EXISTING INTERIOR SLAB AS SHOWN FOR NEW FOUNDATION INSTALLATION. EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.005 REMOVE EXISTING INTERIOR SLAB AND THICKENED SLAB AS SHOWN. EXISTING GRADE BEAMS AND FOOTINGS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.006 REMOVE EXISTING INTERIOR SLAB AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.007 REMOVE EXISTING VEHICLE LIFT AND ASSOCIATED CONCRETE SLAB AND FOUNDATIONS, EXISTING STEEL PILES TO REMAIN. TURN OVER LIFT AND ASSOCIATED COMPONENTS TO OWNER AS REQUIRED.
- 3.010 CUT DOWN AND REMOVE EXISTING CONCRETE WALL/GRADE BEAM AS REQUIRED FOR NEW DOORS. TOP OF WALL/GRADE BEAM SHALL BE CUT DOWN TO ELEVATION 98'-0". PREP TOP OF WALL FOR NEW FLOOR FINISH. COORDINATE WITH ARCHITECTURAL. PATCH CONCRETE TO FINISHED FLOOR. COORDINATE WITH OTHER MATERIALS FOR FINISH AND EXACT ELEVATION.
- 3.013 REMOVE EXISTING SLAB AS REQUIRED FOR DEMONSTRATION OF PLUMBING. COORDINATE LOCATIONS WITH PLUMBING. REPLACE SLAB AFTER COMPLETION OF PLUMBING WORK WITH SLAB TYPE SLAB. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.

TRUE PLAN
NORTH NORTH
FOUNDATION/FLATWORK DEMOLITION PLAN - AREA A
1/8" = 1'-0"



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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/09/21 ESD SET
05/19/21 ADDENDUM #2

CONTRACT NO. 8081
SHEET NO. 430320-1000105
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: HJB/MAE
CHECKED BY: DRM
SHEET SCALE: DRAWINGS
PROJECT: FOUNDATION AND FLATWORK DEMOLITION PLAN - AREA A

SD101A

ADDENDUM 2

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ADDENDUM 2

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METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

ISSUE
04/06/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO: 8981
DRAWING NO: 4500300-100866.03
DATE: APRIL 8, 2021
DESIGNED BY: DJC
DRAWN BY: NLS/MAE
CHECKED BY: DRM
DO NOT SCALE DRAWINGS

BEST COPY AVAILABLE
FOUNDATION AND
FLATWORK
DEMOLITION PLAN -
AREA D

SHEET NO:

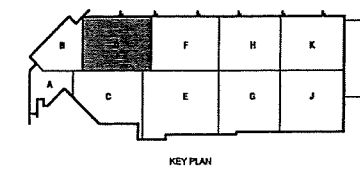
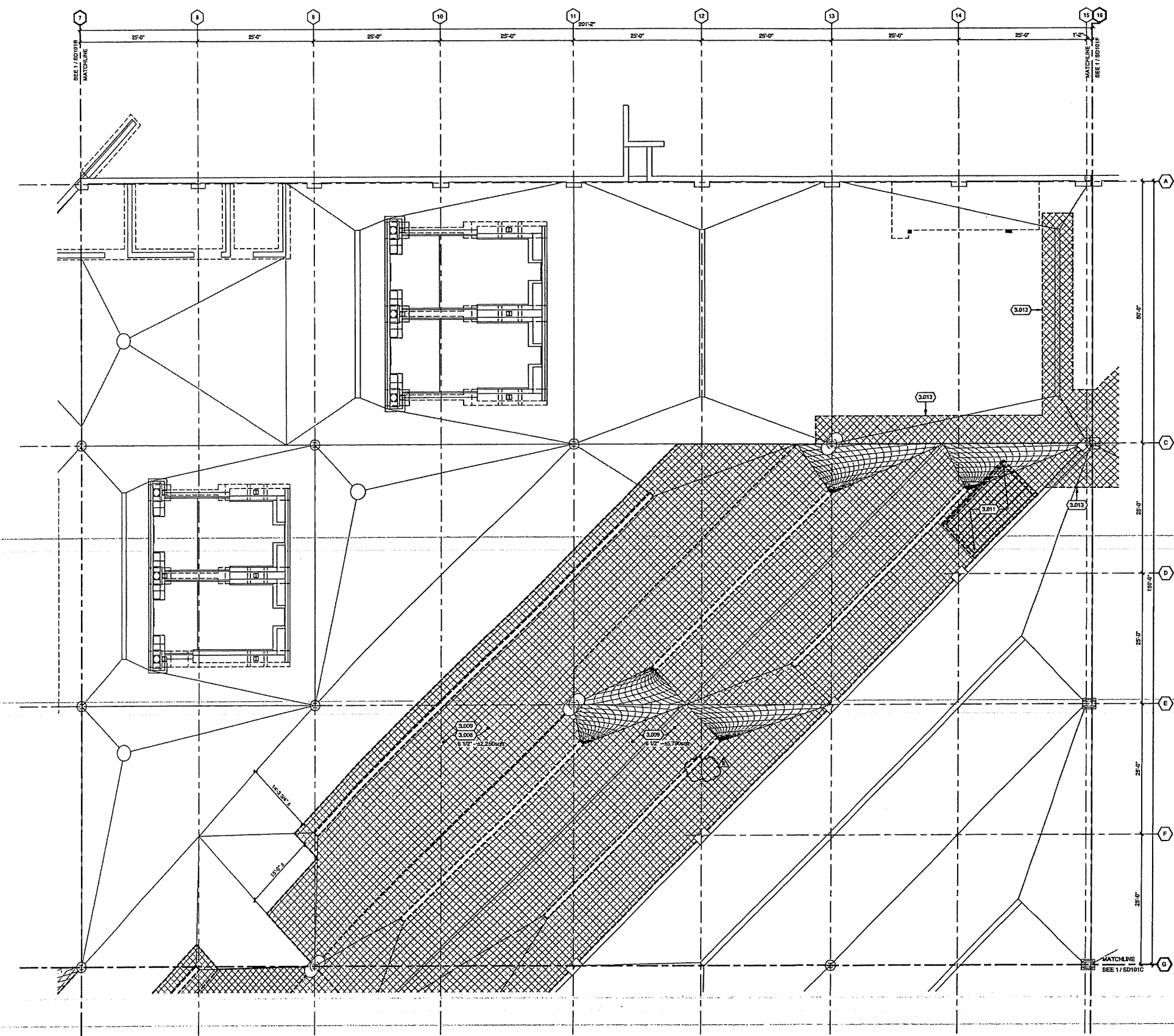
SD101D

**FOUNDATION AND FLATWORK
DEMOLITION PLAN GENERAL NOTES:**

1. REFERENCE G-200 THROUGH G-200 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET G-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. **ATTENTION:** FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.008 REMOVE EXISTING INTERIOR SLAB AND TRENCH DRAIN AS SHOWN FOR INSTALLATION OF NEW CATCH BASIN AND TRENCH DRAINS. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.009 REMOVE EXISTING INTERIOR SLAB AND TRENCH DRAINS AS SHOWN FOR INSTALLATION OF NEW VEHICLE LIFTS AND LIFT PITS. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.011 EXISTING CONCRETE TANK, 8' WIDE X 1' LONG X 6' DEEP BELOW SLAB. REMOVE TANK LID AND TOP 1/2" OF TANK WALLS. FILL VOID WITH ENGINEERED FILL. COMPACT FILL TO 95% MODIFIED PROCTOR.
- 3.013 REMOVE EXISTING SLAB AS REQUIRED FOR DEMONSTRATION OF PLUMBING. COORDINATE LOCATIONS WITH PLUMBING. REPLACE SLAB AFTER COMPLETION OF PLUMBING WORK WITH SLAB TYPE SL806. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.



TRUE PLAN
NORTH NORTH
1
FOUNDATION/FLATWORK DEMOLITION PLAN - AREA D
1/8" = 1'-0"

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APPENDUM 2

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DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/09/21 BID SET
 B 05/13/21 ADDENDUM #2

CONTRACT NO. 8501
 PROJ. NO. 4500000-190696.00
 DATE: APRIL 8, 2021
 DESIGNED BY: DXD
 DRAWN BY: ALB/LAL/E
 CHECKED BY: DRM
 50 MET SCALE DIMENSIONS

PROJECT CONTENTS
 FOUNDATION PLAN - AREA A

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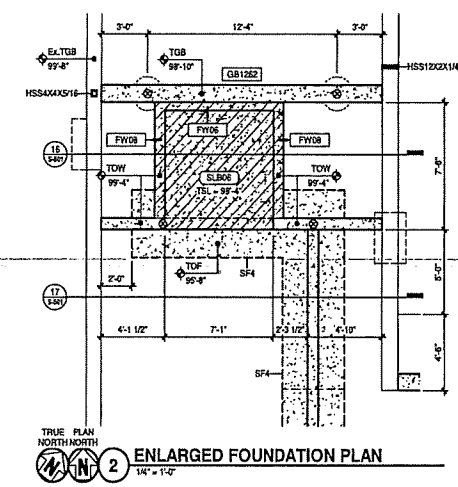
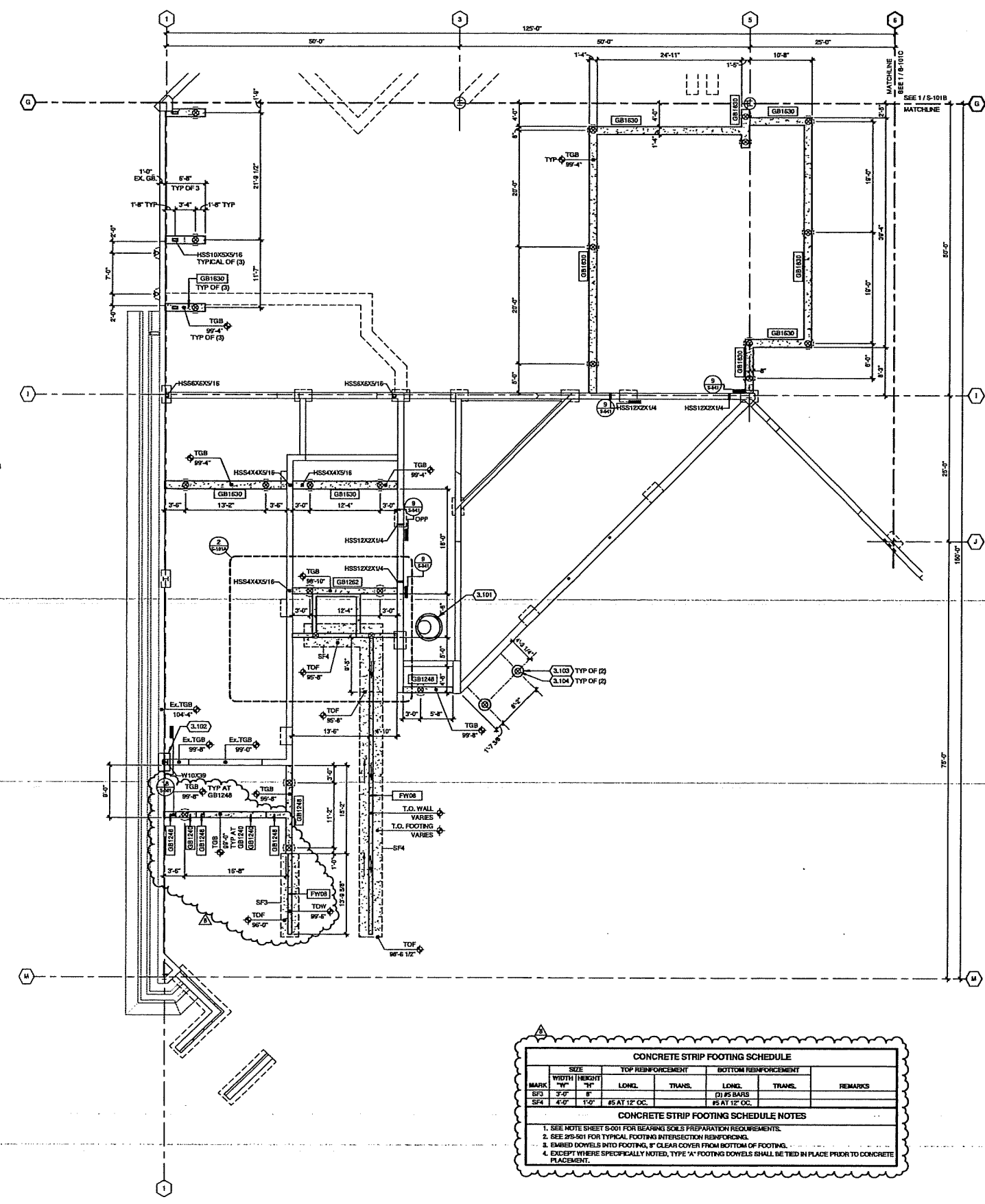
S-101A

FOUNDATION PLAN GENERAL NOTES:

- REFERENCE G-020 THROUGH G-028 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS.
- REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- TOP OF FOOTING ELEVATION = 86'-0" UNLESS NOTED OTHERWISE.
- TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
- STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
- (A) = RETROFIT HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"
- (B) = NEW HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

- 3.101 4'-0" DIAMETER X 8'-0" DEEP MANHOLE WITH SOLID BOTTOM FLAT TOP WITH 24" DIAMETER OFFSET MANWAY HOLE. CAST IRON CASTING WITH SLOTTED CAST IRON GRATE. FILL BOTTOM 3'-0" WITH CLEAR WASHED 3/4" LIMESTONE, LESS THAN 5% PASSING 3/8". MANHOLE MUST BE LIMESTONE FOR NEUTRALIZATION OF SPILLED BATTERY ACID.
- 3.102 NEW PIER AT EXISTING GRADE BEAM, SEE DETAIL 145-501.
- 3.103 24" DIAMETER CONCRETE PIER, FULL 8'-0" HEIGHT TO BE POURED AT THE SAME TIME. REINFORCING SHALL BE (5) #5 VERTICAL BARS, #2 TIES SPACED AT 12" VERTICALLY, AND TRIPLE TOP REIN TOP 12" OF PIER, DOME TOP OF PIER WITH SLOPE OF 1/4" PER FOOT MINIMUM.
- 3.104 HELICAL PIER, 10 KIP COMPRESSION CAPACITY.

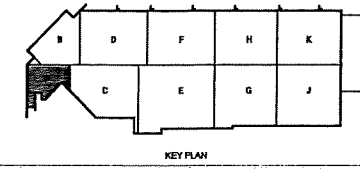


CONCRETE STRIP FOOTING SCHEDULE						
MARK	SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		REMARKS
		LONG.	TRANS.	LONG.	TRANS.	
SF3	3'-0" x 8"			(3) #5 BARS		
SF4	4'-0" x 1'-0"	#5 AT 12" OC.		#5 AT 12" OC.		

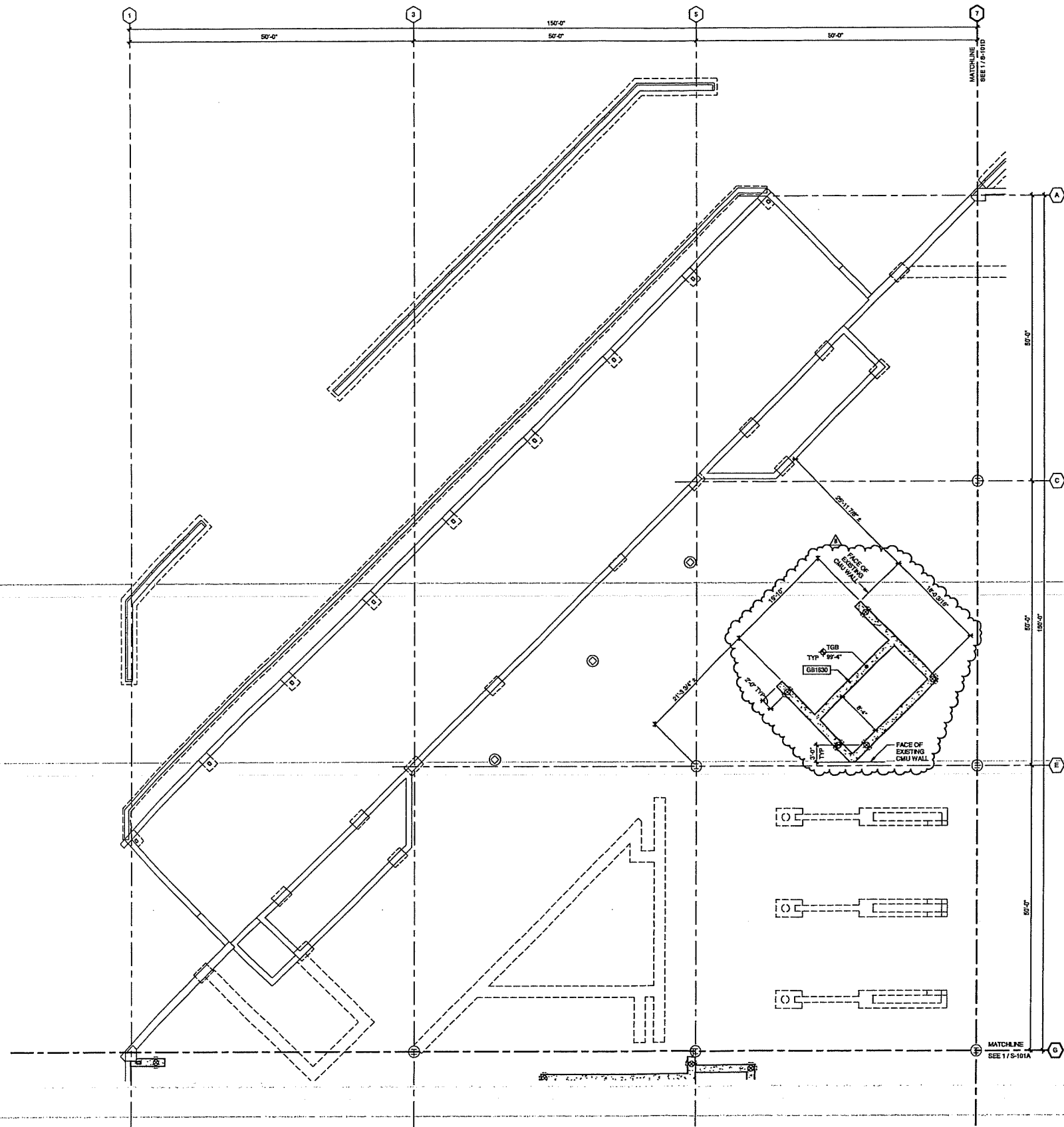
CONCRETE STRIP FOOTING SCHEDULE NOTES

- SEE NOTE SHEET S-001 FOR BEARING SOILS PREPARATION REQUIREMENTS.
- SEE SFS-501 FOR TYPICAL FOOTING INTERSECTION REINFORCEMENT.
- EMBED DOWELS INTO FOOTING, 6" CLEAR COVER FROM BOTTOM OF FOOTING.
- EXCEPT WHERE SPECIFICALLY NOTED, TYPE 'A' FOOTING DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE PLACEMENT.

FOUNDATION PLAN - AREA A
 TRUE PLAN NORTH NORTH
 1/8" = 1'-0"



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- FOUNDATION PLAN GENERAL NOTES:**
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
 4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
 5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
 6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
 7. REFER TO SHEET S-001 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
 8. TOP OF FOOTING ELEVATION = 96'-0" UNLESS NOTED OTHERWISE.
 9. TOP OF FOUNDATION WALL ELEVATION = 107'-0" UNLESS NOTED OTHERWISE.
 10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
 11. (A) = RETROFIT HELICAL PIER
 - 32 KP SERVICE LEVEL CAPACITY
 - MINIMUM EMBEDMENT DEPTH = 27'-0"
 12. (B) = NEW HELICAL PIER
 - 32 KP SERVICE LEVEL CAPACITY
 - MINIMUM EMBEDMENT DEPTH = 27'-0"

KEYED NOTES

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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

DATE: 04/08/21 BID SET
 B 05/13/21 ADDENDUM #2

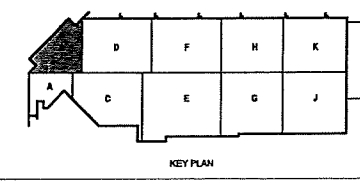
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 DRAWING NO: 4503500-190896.DWG
 DATE: APRIL 8, 2021
 DESIGNED BY: DJC
 DRAWN BY: MJS/HAJE
 CHECKED BY: DRM
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SHEET CONTAINS
**FOUNDATION PLAN -
 AREA B**

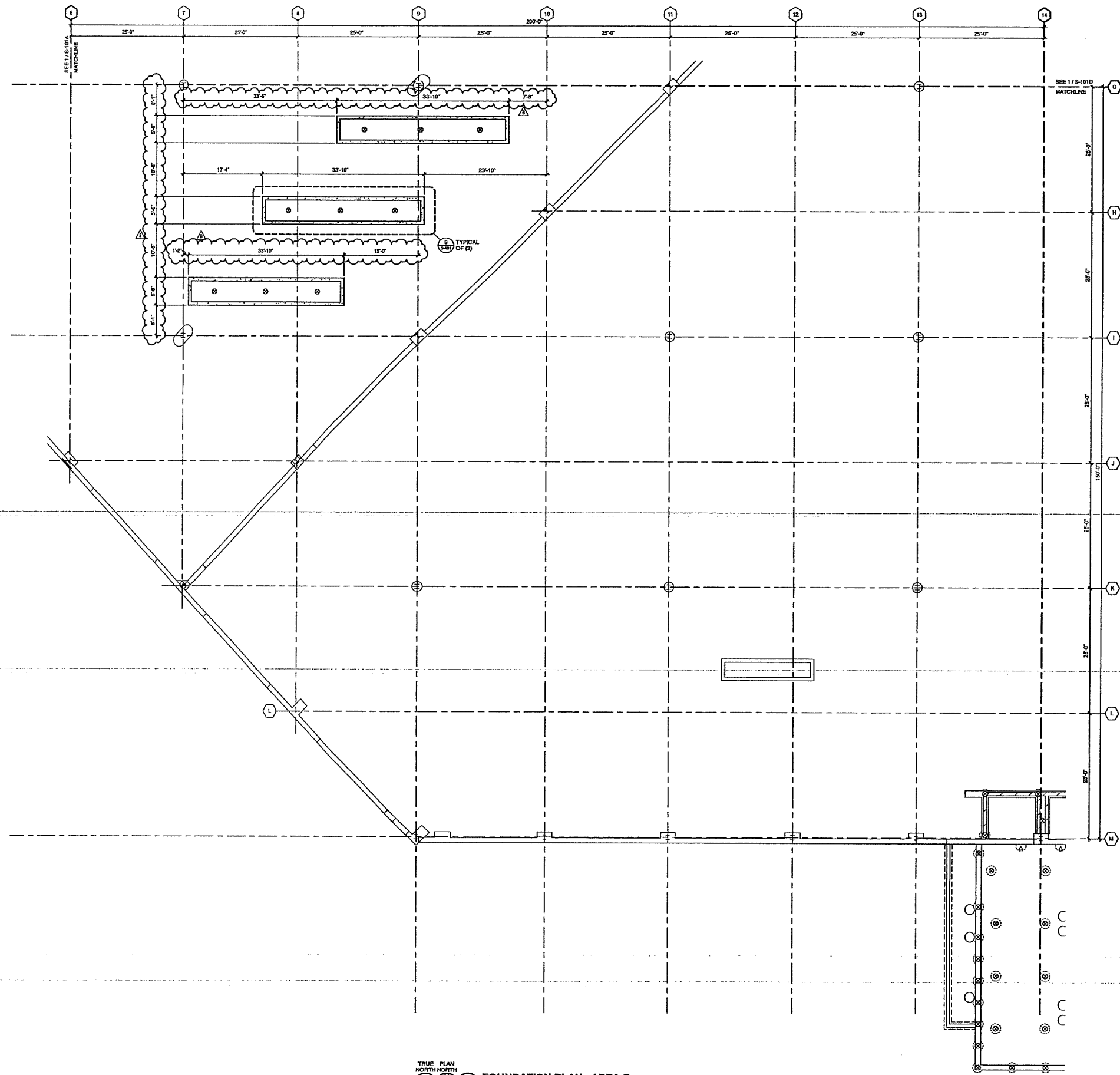
SHEET NO:
S-101B

TRUE PLAN
 NORTH NORTH

1 FOUNDATION PLAN - AREA B
 1/8" = 1'-0"



ADDENDUM 2



**FOUNDATION
PLAN GENERAL NOTES:**

1. REFERENCE G-000 THROUGH G-006 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DW 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-001 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. TOP OF FOOTING ELEVATION = 96'-0" UNLESS NOTED OTHERWISE.
9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
11. (A) = RETROFIT HELICAL PIER
 • 32 KP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"
12. (B) = NEW HELICAL PIER
 • 32 KP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

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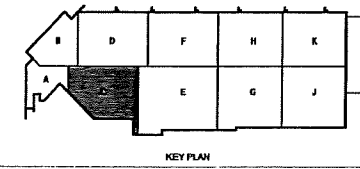
**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

04/06/21 BID SET
 05/13/21 ADDENDUM #2

CONTRACT NO: 8581
 DRAWING NO: 4502500-190096L03
 DATE: APRIL 8, 2021
 DESIGNED BY: DJC
 DRAWN BY: NJS / MAE
 CHECKED BY: DJM
 DO NOT SCALE DIMENSIONS

SHEET CONTAINS
 FOUNDATION PLAN -
 AREA C

S-101C

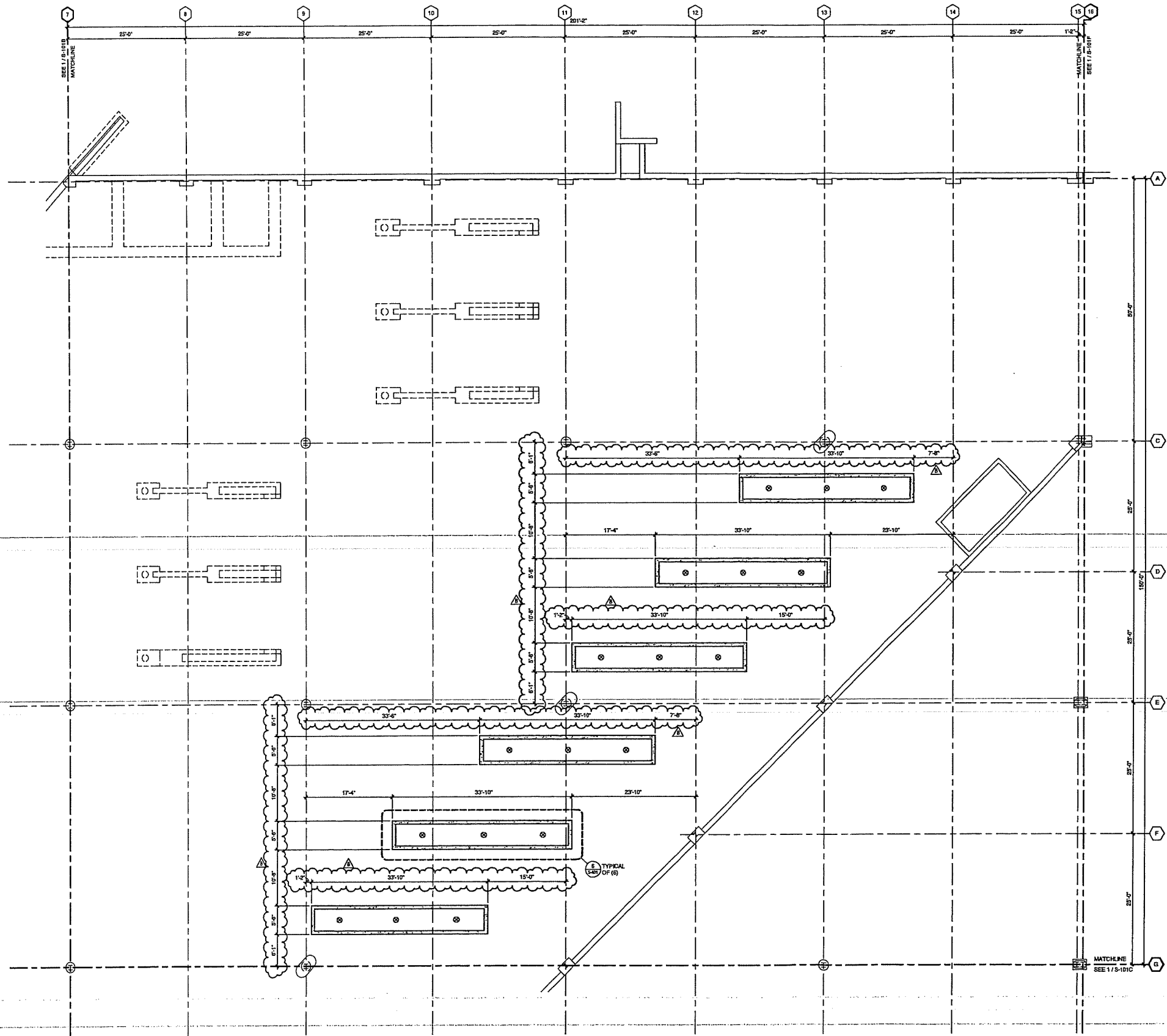


TRUE PLAN
 NORTH NORTH

FOUNDATION PLAN - AREA C
 1/8" = 1'-0"

ADDENDUM 2

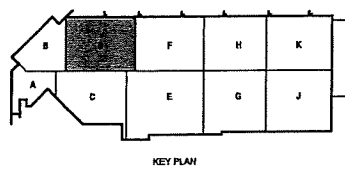
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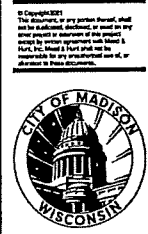
- FOUNDATION PLAN GENERAL NOTES:**
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DY 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
 4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
 5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
 6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
 7. REFER TO SHEET S-601 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
 8. TOP OF FOOTING ELEVATION = 96'-0" UNLESS NOTED OTHERWISE.
 9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
 10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
 11. (A) = RETROFIT HELICAL PIER
 • 32 KP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"
 12. (B) = NEW HELICAL PIER
 • 32 KP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

TRUE PLAN
 NORTH NORTH
 1 FOUNDATION PLAN - AREA D
 1/8" = 1'-0"



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 MADISON, WI 53703

BIDD
 04/06/21 BID SET
 B 05/13/21 ADDENDUM #2

CONTRACT NO: 8981
 MAX BIDD: 4503500-180896.LD
 DATE: APRIL 8, 2021
 DRAWN BY: DJD
 CHECKED BY: NJS / MJJ
 CHECKED BY: DRM
 DO NOT SCALE DIMENSIONS

SHEET CONTENTS
 FOUNDATION PLAN - AREA D

SHEET NO:
S-101D

ADDENDUM 2

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DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

PROJ: 04/09/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO: 8381
SHEET NO: 4500500-190096.03
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: NJB/MAE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS

SHEET CONTAINS:
FIRST FLOOR
FLATWORK PLAN -
AREA A

SHEET NO:

S-111A

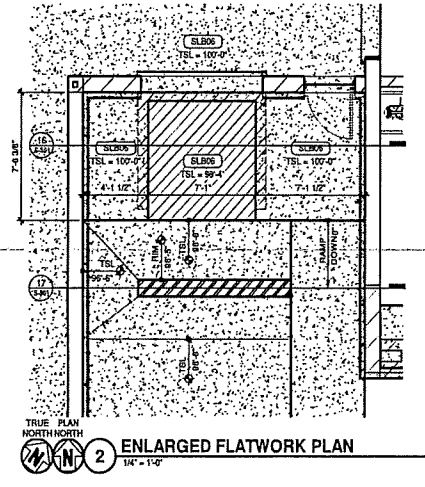
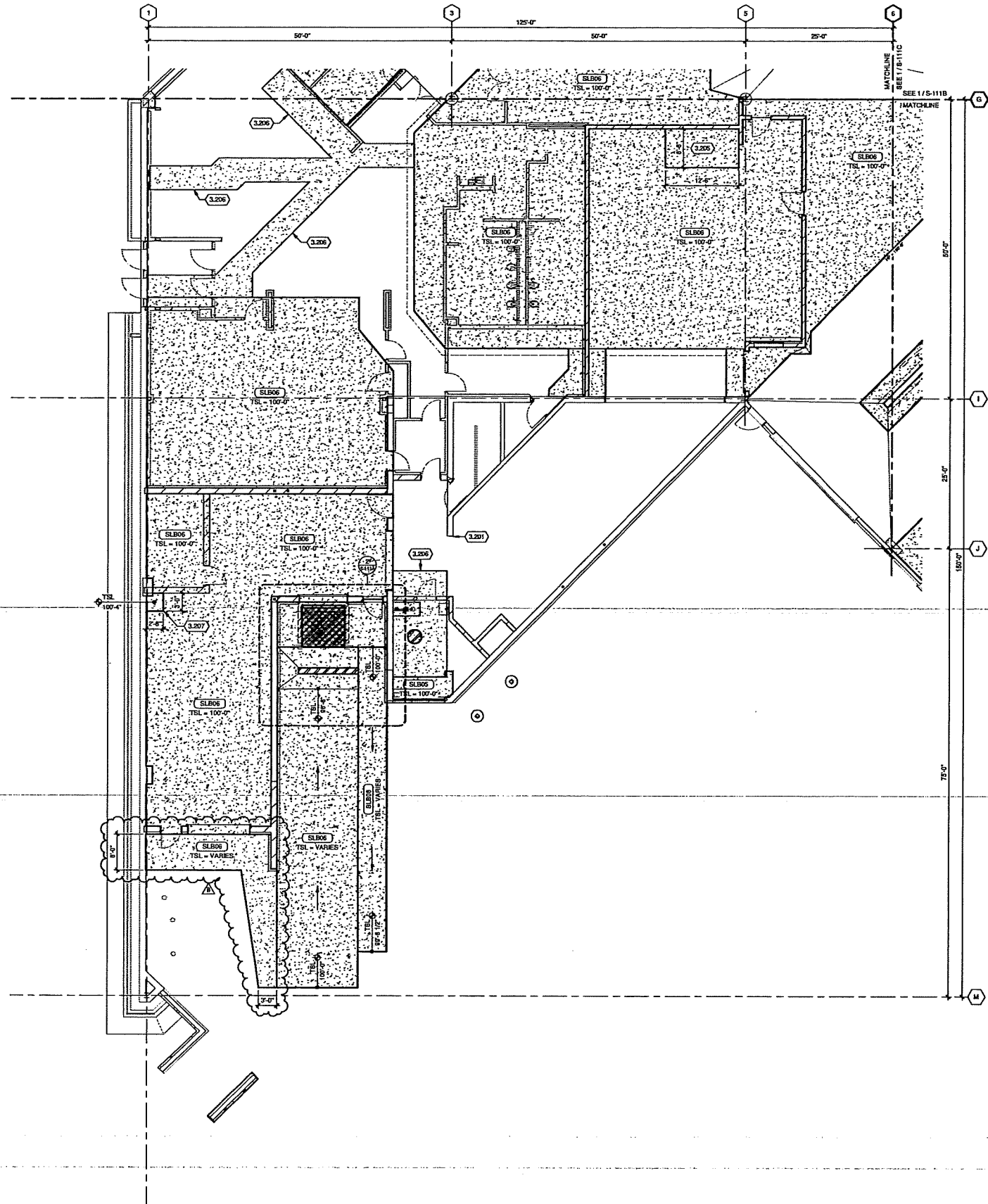
ADDENDUM 2

**FLATWORK
PLAN GENERAL NOTES:**

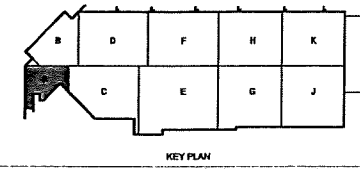
1. REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DW 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. REFER TO DETAIL 1/5-511 FOR STRUCTURAL SLAB TYPES.
9. FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
10. (D) DASHED LINES - - - - - INDICATE (D) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.
11. DOWEL ALL NEW SLAB/FILL TO EXISTING PER DETAIL 9/5-511, UNLESS INDICATED OTHERWISE.
12. "ATTENTION" FULL EXTENT OF SLAB REPLACEMENT REQUIRED DUE TO OTHER DISCIPLINES DEMOLITION MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED SLAB REPLACEMENT WITH OTHER DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

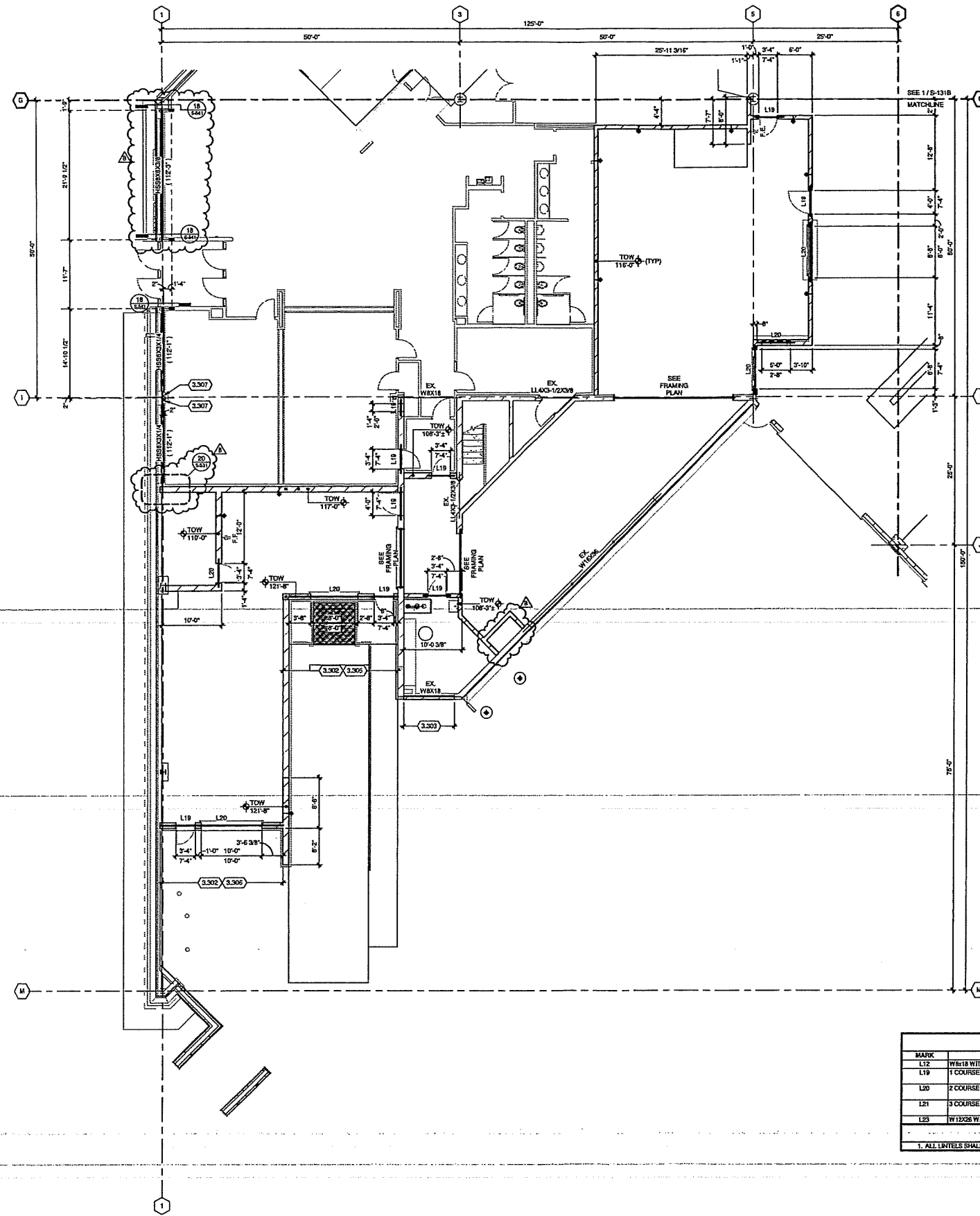
- 3.201 PATCH SLAB AT WALL REMOVAL, MATCH EXISTING THICKNESS, DOWEL PER DETAIL 9/5-511.
- 3.205 12" ISOLATED EQUIPMENT PAD, SEE DETAIL 7/5-511, TOP OF SLAB ELEVATION = 100'-0".
- 3.206 SLAB REPLACEMENT AFTER COMPLETION OF PLUMBING DEMONSTRATION, COORDINATE LOCATIONS WITH PLUMBING, REPLACE WITH SLAB TYPE SLB06, MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.
- 3.207 NEW EQUIPMENT PAD, SEE DETAIL 6/5-511, COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING EQUIPMENT SUPPLIER.



TRUE PLAN NORTH NORTH
1 FIRST FLOOR FLATWORK PLAN - AREA A
1/4" = 1'-0"



S:\040921\4500500_Plan_Civil\1101ESBIM\04-08-21\1101-Area_A-Floor\meadhunt.com.rvt



STRUCTURAL FLOOR PLAN GENERAL NOTES:

- REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLS.
- REFER TO SHEET S-131A FOR LINTEL SCHEDULE.
- REFER TO SHEET S-031 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- ALL MASONRY WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48" O.C., CENTERED IN WALL, UNLESS INDICATED OTHERWISE.
- GROUT ALL MASONRY SOLID BELOW FINISHED FLOOR ELEVATION AND 1 FULL COURSE ABOVE FINISHED FLOOR.
- ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
- STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED EXCEEDING 1'-0" (4'-0" MAX) IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
- COORDINATE RECORDED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
- CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.

KEYED NOTES

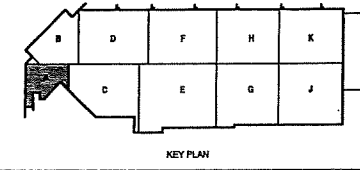
- NEW 12" CMU WALL FULLY GROUTED, FULL HEIGHT, WITH JAMB REINFORCING PER DETAIL 6/S-521.
- NEW 8" CMU INRILL FULLY GROUTED WITH #5 VERTICAL BAR EACH CORNER.
- LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL.
- LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL, FULL LENGTH BOND BEAM WITH (2) #5 BARS AT 4'-0" VERTICAL SPACING ABOVE OPENING.
- FIELD WELD HSS LINTEL BEAM TO HSS COLUMN WITH 1/4" FILLET WELD, THREE SIDES.

LINTEL SCHEDULE				
MARK	DESCRIPTION	BEARING	DETAIL	REMARKS
L12	W8X18 WITH PLATE	8" E.E.		
L19	1 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	8" E.E.		NO BOTTOM PLATE
L20	2 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	4" E.E.		NO BOTTOM PLATE
L21	3 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	24" E.E.		NO BOTTOM PLATE
L23	W12X28 WITH PL14X11-1/2	8" E.E.		

LINTEL SCHEDULE GENERAL NOTES

- ALL LINTELS SHALL HAVE 1/4" THICK BOTTOM PLATE TO MATCH WIDTH OF WALL MINUS 1/4" EACH SIDE U/L.O.

TRUE PLAN NORTH NORTH
 1
STRUCTURAL FIRST FLOOR PLAN - AREA A
 1/8" = 1'-0"



Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53556
 phone: 608-273-6380
 meadhunt.com

**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS**
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/06/21 BID SET
 02/13/21 ADDENDUM #2

CONTRACT NO. 8561
 DRAWING NO. 4520500-100896.DWG
 DATE: APRIL 8, 2021
 DESIGNED BY: DXC
 DRAWN BY: AUB FAUPE
 CHECKED BY: DNM
 SHEET SCALE: DRAWINGS

SHEET CONTENTS
STRUCTURAL FIRST FLOOR PLAN - AREA A

SHEET NO.:
S-131A

ADDENDUM 2

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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

040821 BID SET
051321 ADDENDUM #2

CONTRACT NO. 8081
PROJ. NO. 450500-190896.03
DATE APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NJR / KJE
CHECKED BY: DRM

DRY COPY RIGHTS
MEZZANINE
FRAMING PLAN -
AREA A

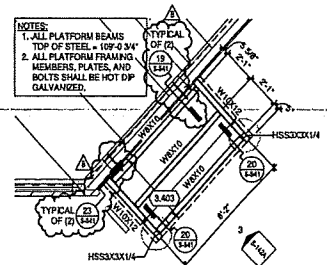
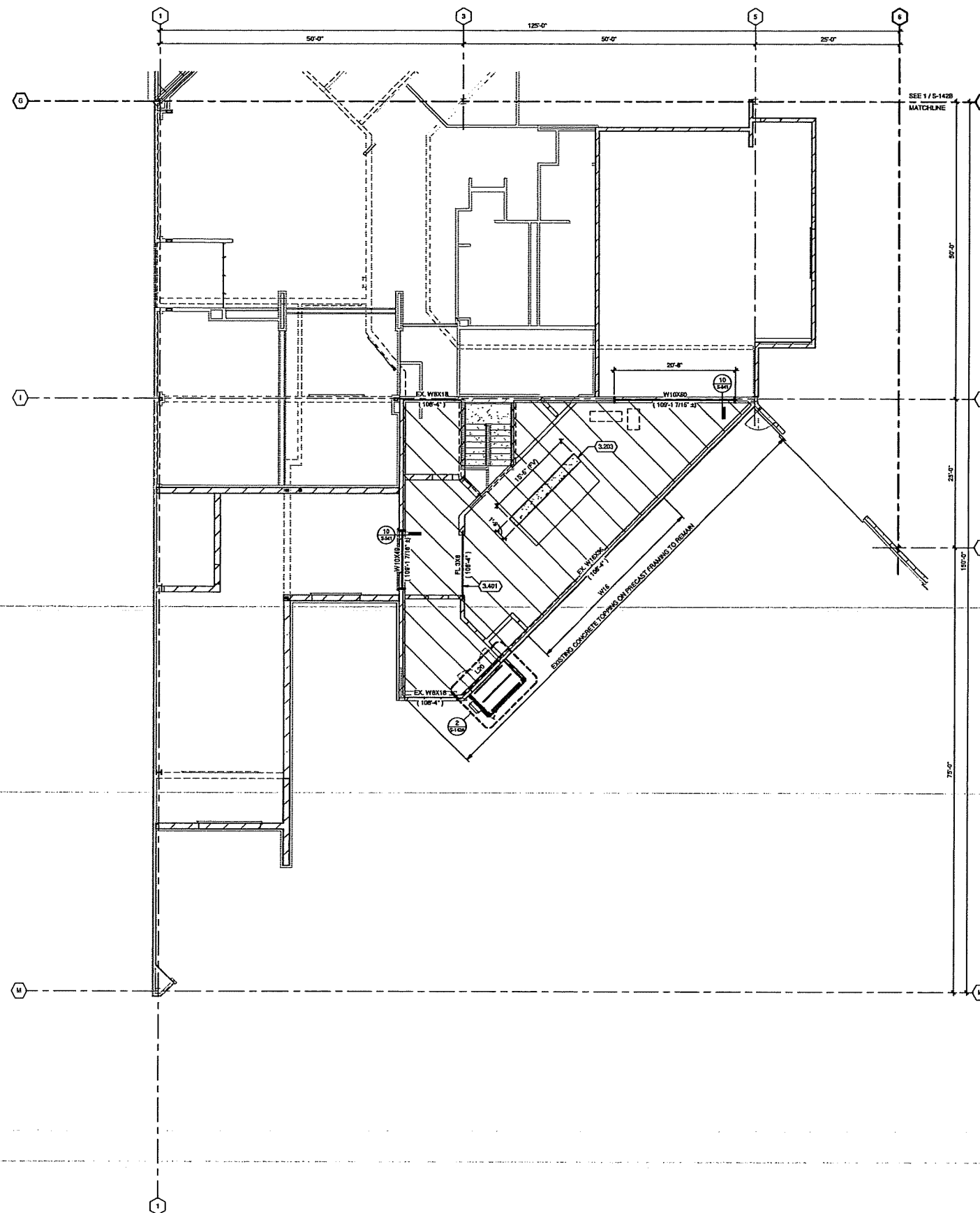
SHEET NO.:
S-142A

FRAMING PLAN GENERAL NOTES:

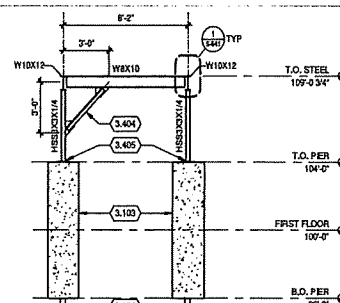
1. REFERENCE G-400 THROUGH G-430 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DW 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS.
7. REFER TO SHEET S-541 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.

KEYED NOTES

- 3.100 24" DIAMETER CONCRETE PIER, FULL 8'-0" HEIGHT TO BE POURED AT THE SAME TIME. REINFORCING SHALL BE (5) #5 VERTICAL BARS, #3 TIES SPACED AT 12" VERTICALLY, AND TRIPLE TOP TIE IN THE TOP 12" OF PIER, DOME TOP OF PIER WITH SLOPE OF 1/4" PER FOOT MINIMUM.
- 3.104 HELICAL PIER, 10 KIP COMPRESSION CAPACITY.
- 3.200 NEW EQUIPMENT PAD EXTENSION TO EXISTING. SEE DETAIL 13/5-611. MATCH ELEVATION OF EXISTING PAD.
- 3.401 NEW 8X3 STEEL BAR PLATYISE, GR 36 MINIMUM.
- 3.402 BAR GRATING 1-1/4" X 1/8" BEARING BARS AT 19 1/2" O.C. SPACING. CROSS RODS AT 2" O.C. CROSS RODS WELDED. HOT DP GALVANIZED. CORRECT GRATING TO SUPPORT BEAMS WITH HOT DP GALVANIZED G-CLIPS. NO FIELD DRILLING ALLOWED.
- 3.404 2LX2X1/4 L188 BRACE BOLTED TO 3/8" GUSSET PLATE EACH END WITH (2) 3/4" DIAMETER A325 SLIP CRITICAL BOLTS.
- 3.405 3/4" THICK COLUMN BASE PLATE (SEE DETAIL 75-641) WITH (3) 3/4" DIAMETER CAST IN PLACE HEADED ANCHOR RODS, HOT DP GALVANIZED. NO GROUT BED.

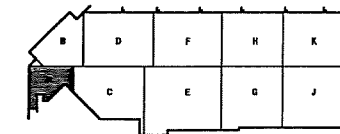


TRUE PLAN NORTH NORTH
2 ENLARGED FRAMING PLAN
1/4" = 1'-0"



3 PLATFORM FRAMING ELEVATION
1/4" = 1'-0"

TRUE PLAN NORTH NORTH
1 MEZZANINE FRAMING PLAN - AREA A
1/8" = 1'-0"



KEY PLAN

ADDENDUM 2

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

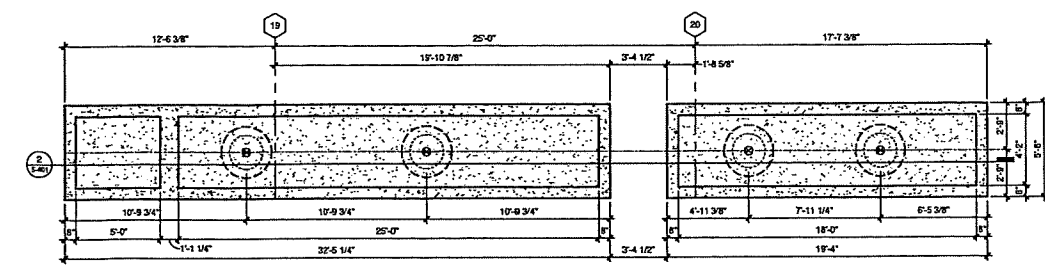
ISSUE
04/06/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO. 8981
SHEET NO. 450300-1908R6.03
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NLR/MAE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS

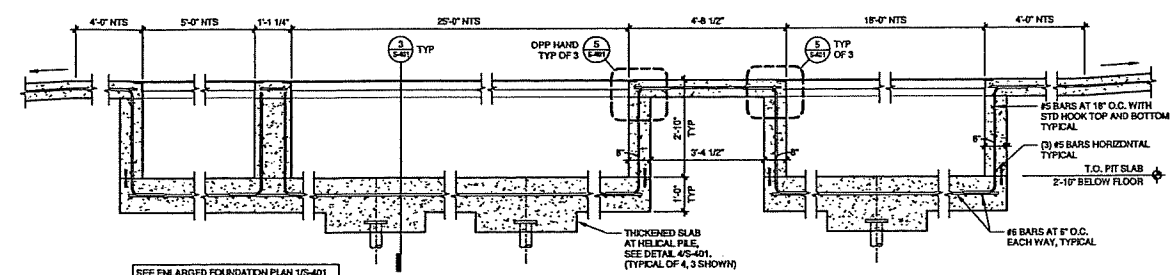
SHEET CONTENTS
ENLARGED
FOUNDATION PLANS
AND DETAILS

SHEET NO.
S-401

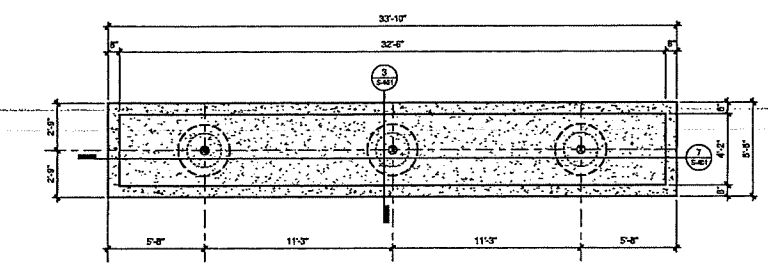
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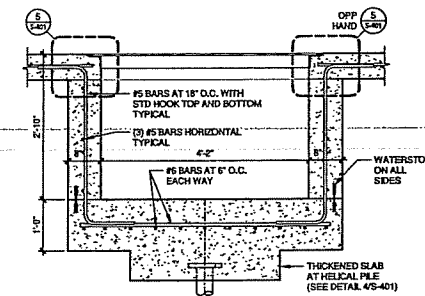
1 ENLARGED FOUNDATION PLAN - LIFT
1/4" = 1'-0"



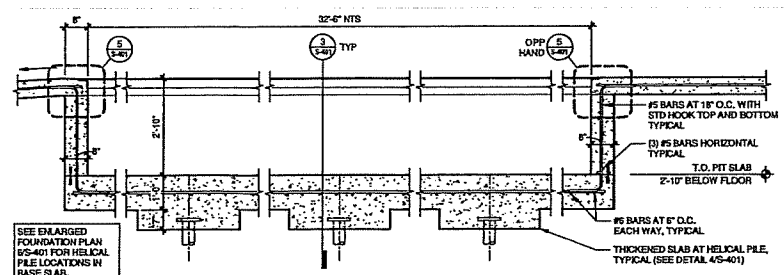
2 FOUNDATION SECTION - LIFT
1/2" = 1'-0"



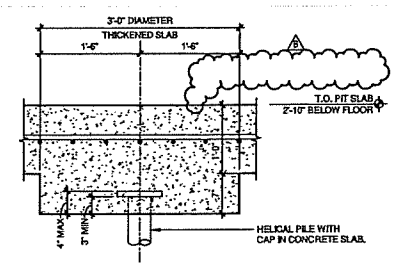
6 ENLARGED FOUNDATION PLAN - ECO 60-13 LIFT
1/4" = 1'-0"



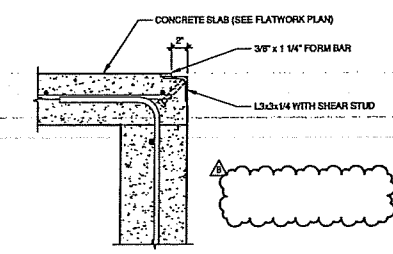
3 FOUNDATION SECTION - LIFTS
3/4" = 1'-0"



7 FOUNDATION SECTION - ECO LIFT
1/2" = 1'-0"

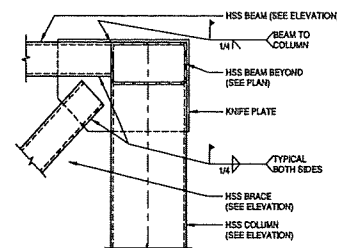


4 HELICAL PILE AT SLAB - LIFTS
1" = 1'-0"

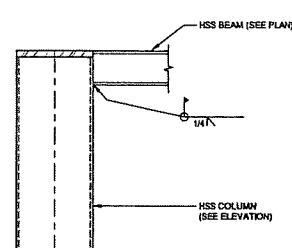


5 FOUNDATION DETAIL - LIFTS
1 1/2" = 1'-0"

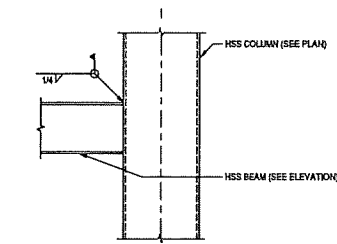
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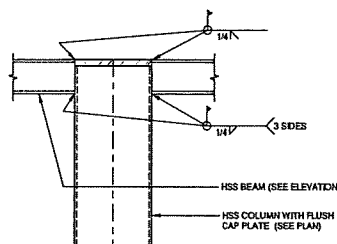
11 OVERHANG FRAMING CONNECTION
1 1/2" x 1'-0"



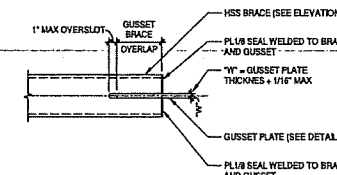
7 OVERHANG FRAMING CONNECTION
1 1/2" x 1'-0"



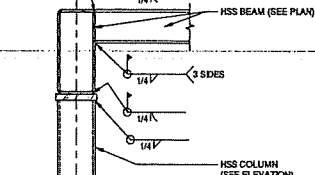
12 OVERHANG FRAMING CONNECTION
1 1/2" x 1'-0"



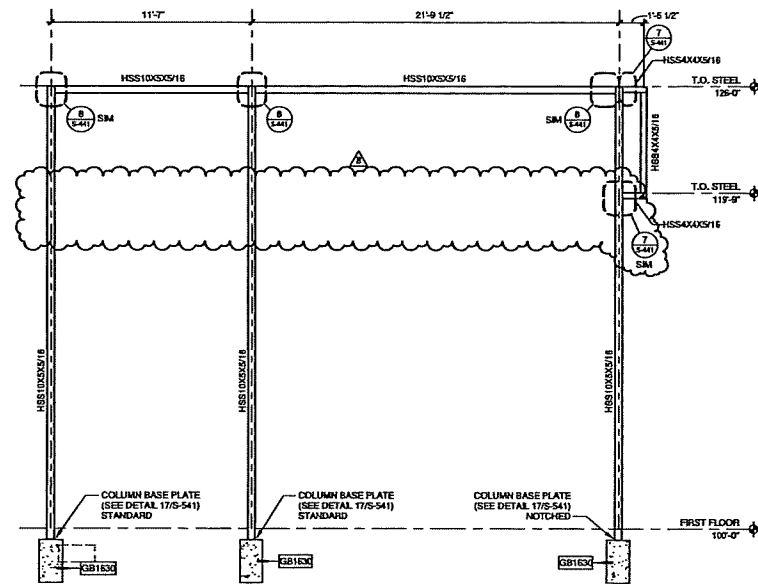
8 OVERHANG FRAMING CONNECTION
1 1/2" x 1'-0"



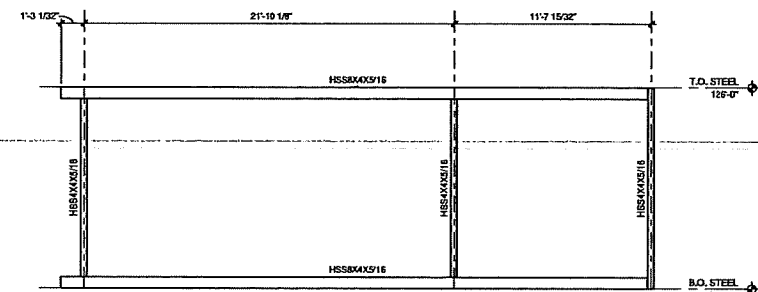
13 BRACED FRAME SLOT CUT
1 1/2" x 1'-0"



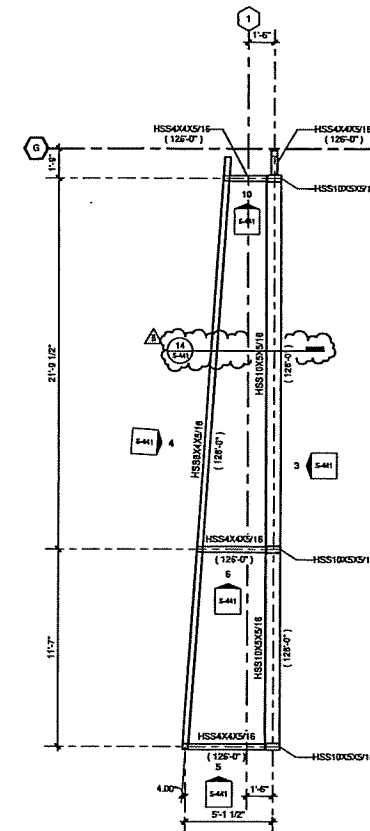
9 OVERHANG FRAMING CONNECTION
1 1/2" x 1'-0"



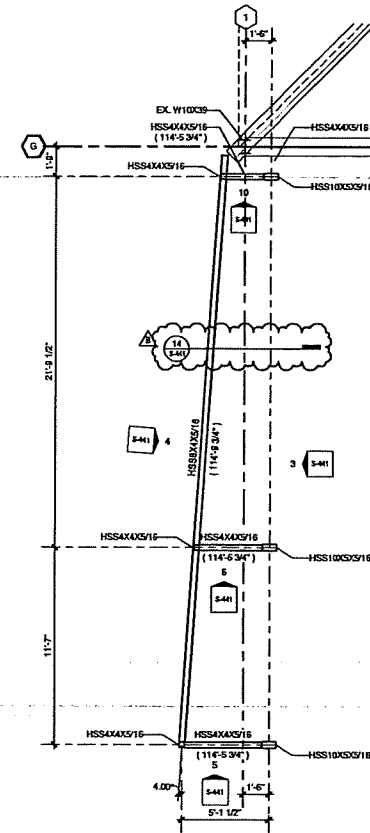
3 OVERHANG FRAMING ELEVATION
1/4" x 1'-0"



4 OVERHANG FRAMING ELEVATION
1/4" x 1'-0"



1 ENLARGED FRAMING PLAN
1/4" x 1'-0"

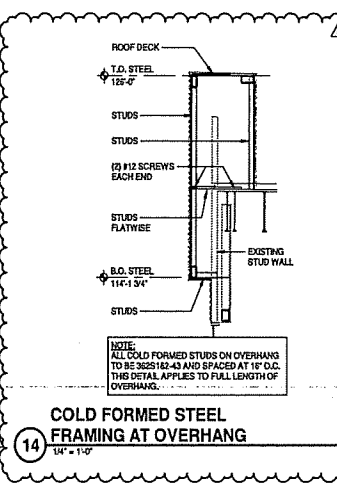


2 ENLARGED FRAMING PLAN
1/4" x 1'-0"

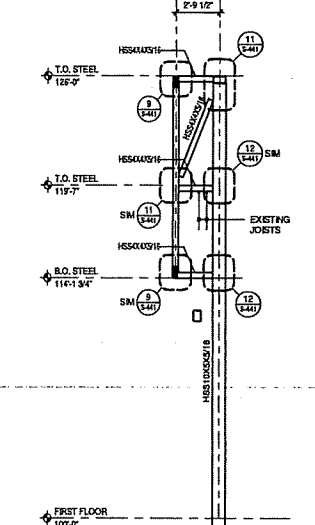
ROOF FRAMING PLAN GENERAL NOTES:

- REFERENCE G-020 THROUGH G-020 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS.
- REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
- REFER TO SHEETS S-041 AND S-051 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - A. AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "KS" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "KS" SERIES - MINIMUM 2 1/2"
- ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
- BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-S51. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
- REINFORCING JOIST GRIDDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GRIDDERS AND INSTALLING SISTER JOIST.
- CUT BRACING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRACING AND BRACING TO ORIGINAL CONDITIONS OR AS MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
- BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
- NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
- FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTION(S) TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
- PLACEMENT OF BALLAST SHALL NOT EXCEED 12" SF.
- VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
- DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

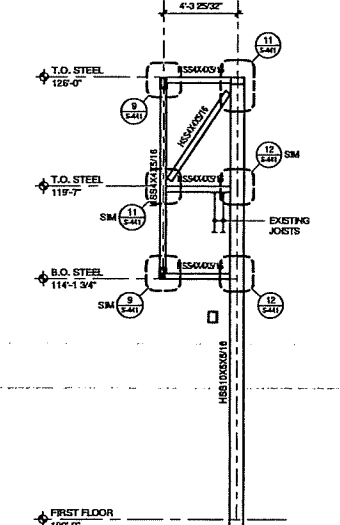
KEYED NOTES



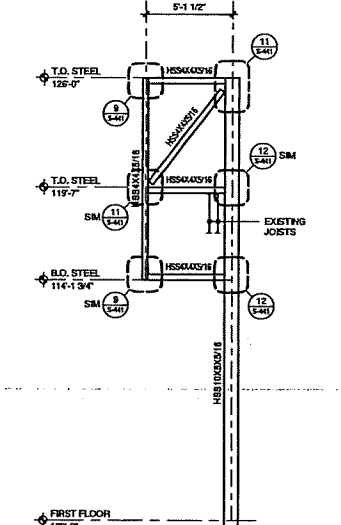
14 COLD FORMED STEEL FRAMING AT OVERHANG
1/4" x 1'-0"



10 OVERHANG FRAMING ELEVATION
1/4" x 1'-0"



6 OVERHANG FRAMING ELEVATION
1/4" x 1'-0"



5 OVERHANG FRAMING ELEVATION
1/4" x 1'-0"

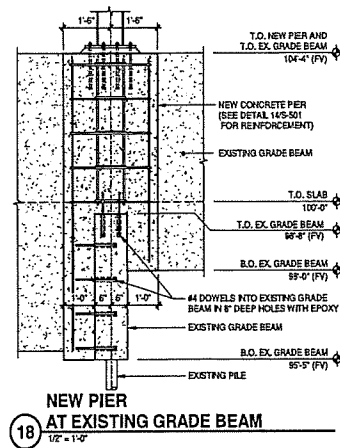


04/08/21 BID SET
05/13/21 ADDENDUM #2

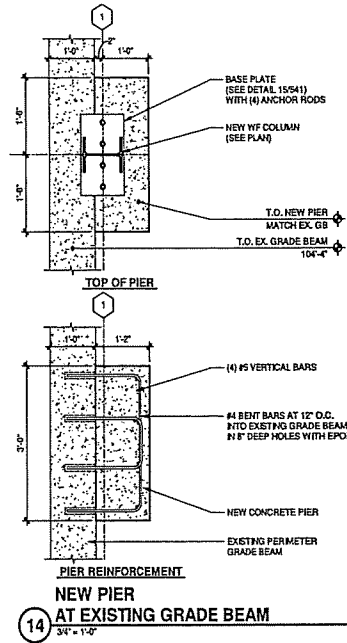
CONTRACT NO. 8981
SHEET NO. 4525500-19068E.02
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: MAE
CHECKED BY: DFM
3/27/21 SCALE: 3/8"=1'-0"

ENLARGED FRAMING PLANS AND ELEVATIONS
SHEET NO. S-441

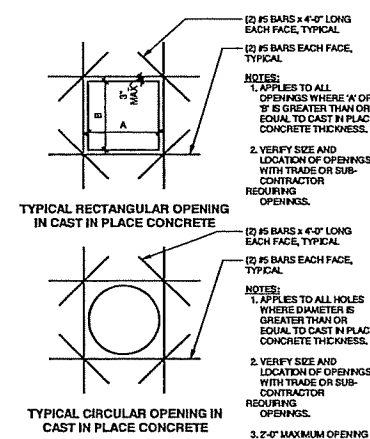
ADDENDUM 2



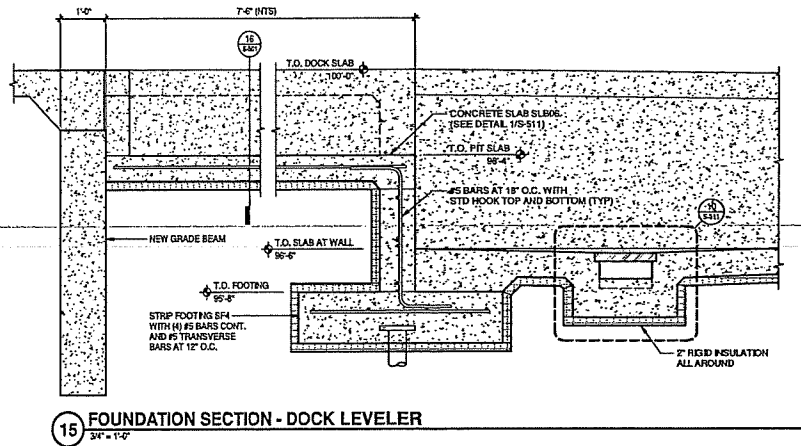
18 NEW PIER AT EXISTING GRADE BEAM
1/2" = 1'-0"



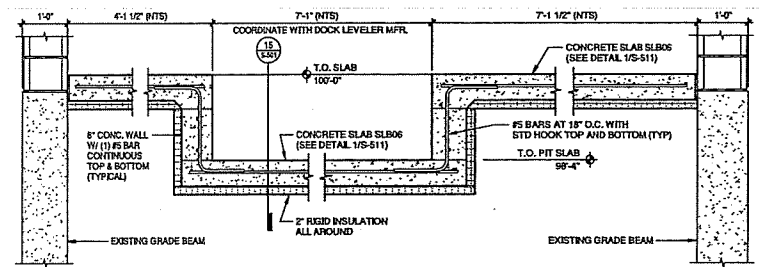
14 PIER REINFORCEMENT NEW PIER AT EXISTING GRADE BEAM
3/4" = 1'-0"



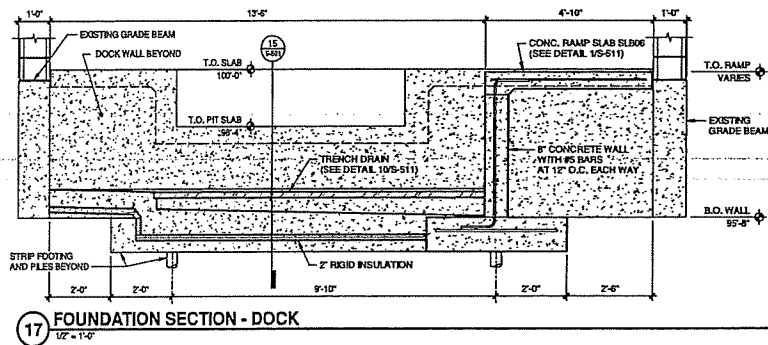
13 TYPICAL CONCRETE PENETRATION REINFORCEMENT
NO SCALE



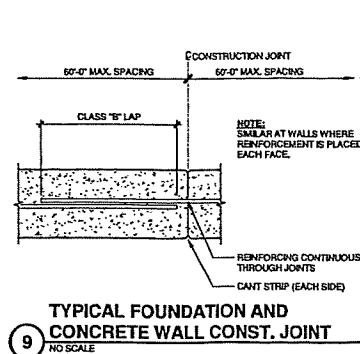
15 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



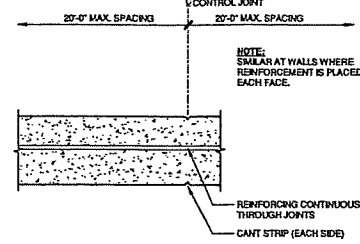
16 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



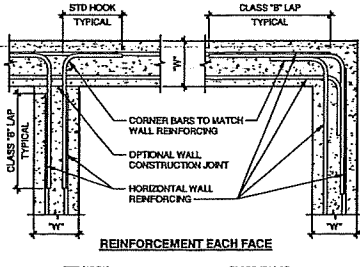
17 FOUNDATION SECTION - DOCK
1/2" = 1'-0"



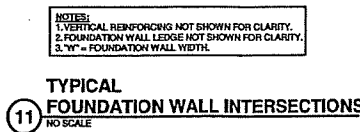
9 TYPICAL FOUNDATION AND CONCRETE WALL CONST. JOINT
NO SCALE



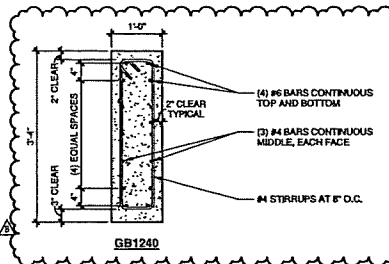
10 TYPICAL FOUNDATION AND CONCRETE WALL CONTROL JOINT
NO SCALE



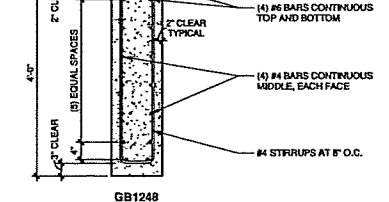
11 TYPICAL FOUNDATION WALL INTERSECTIONS
NO SCALE



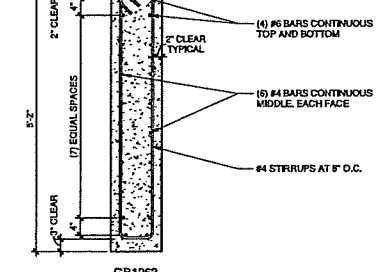
12 GRADE BEAM/FOUNDATION WALL PENETRATION
NO SCALE



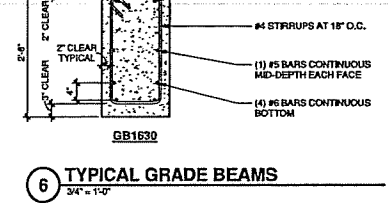
6 TYPICAL GRADE BEAMS
3/4" = 1'-0"



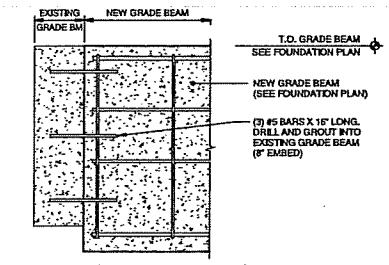
7 TYPICAL NEW TO EXISTING GRADE BEAM CONNECTION
NO SCALE



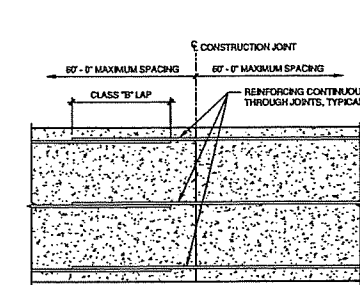
8 TYPICAL MASONRY WALL AT GRADE BEAM
3/4" = 1'-0"



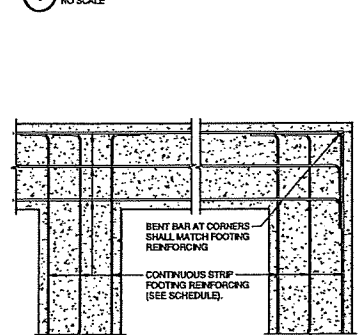
4 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE



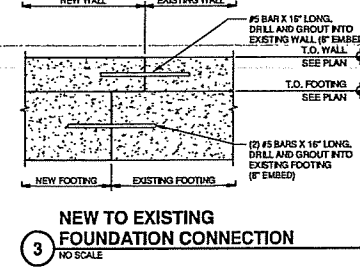
5 TYPICAL GRADE BEAM CORNER/END
NO SCALE



1 TYPICAL FOOTING CONSTRUCTION JOINT
NO SCALE



2 TYPICAL FOOTING INTERSECTIONS
NO SCALE



3 NEW TO EXISTING FOUNDATION CONNECTION
NO SCALE



NO. 04/06/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO. 8981
INSTR. NO. 4503300-190896LD
DATE: APRIL 8, 2021
DRAWN BY: DYC
CHECKED BY: DRM
DO NOT SCALE DRAWINGS

SEE CONTENTS FOR FOUNDATION DETAILS

8457140

APPENDUM 2

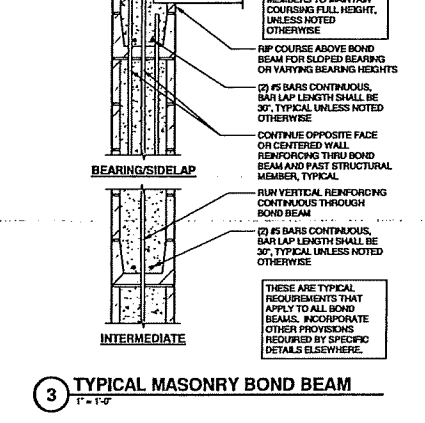
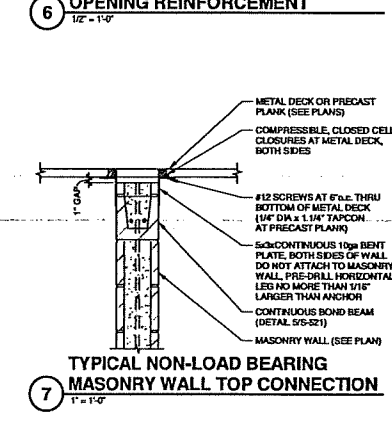
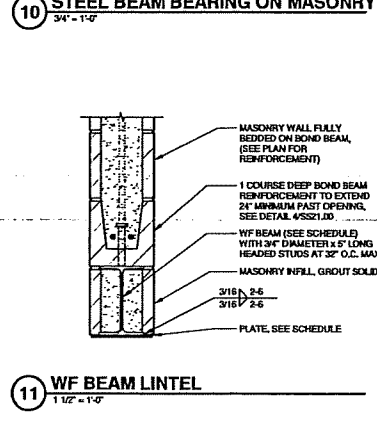
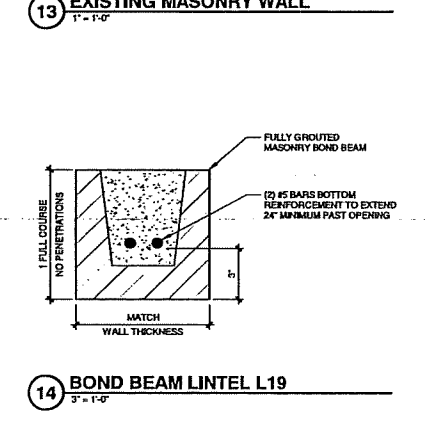
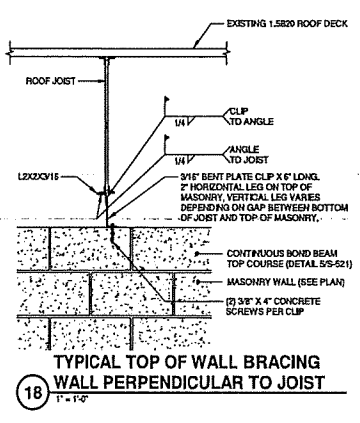
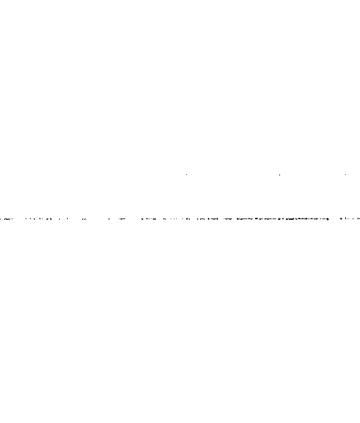
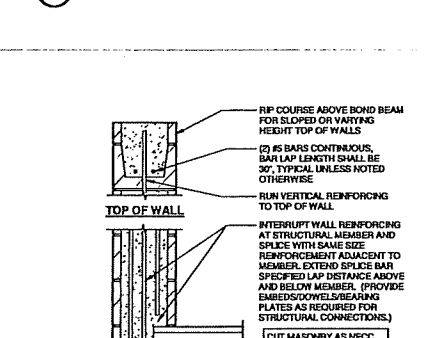
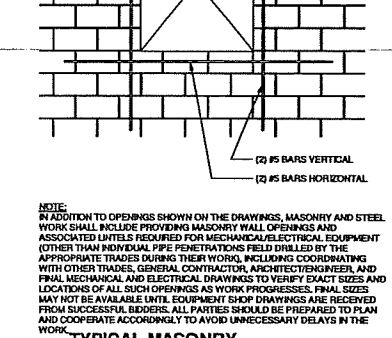
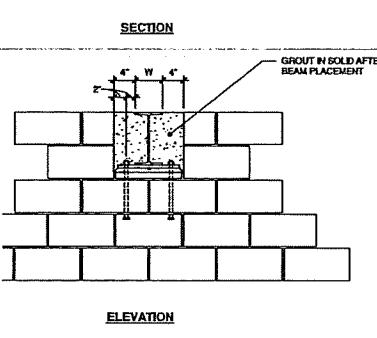
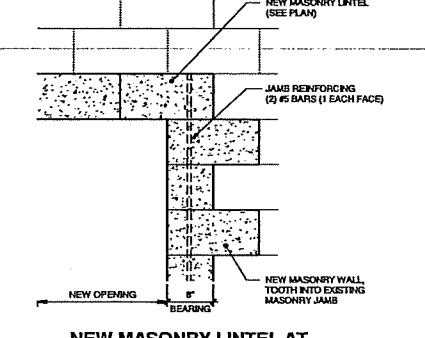
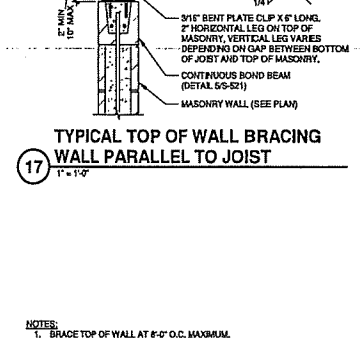
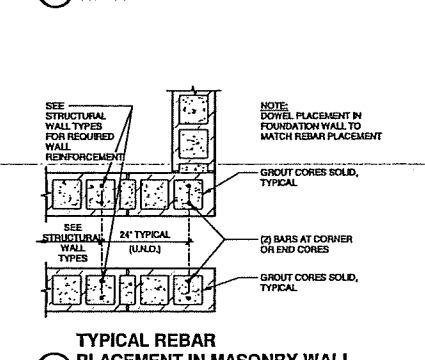
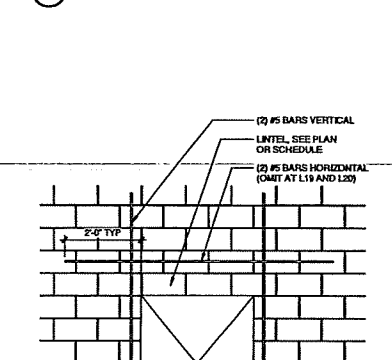
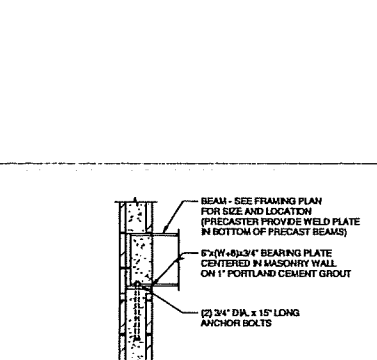
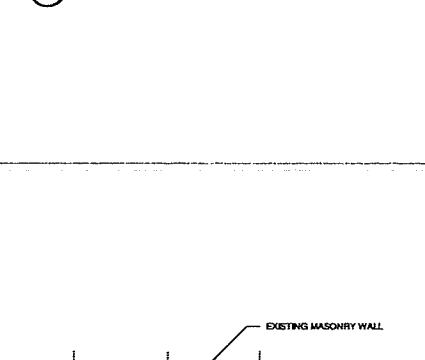
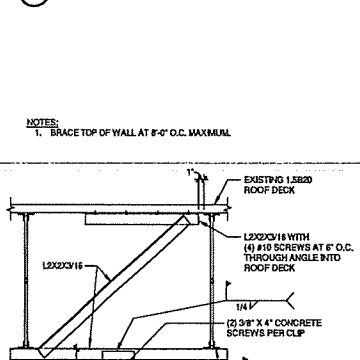
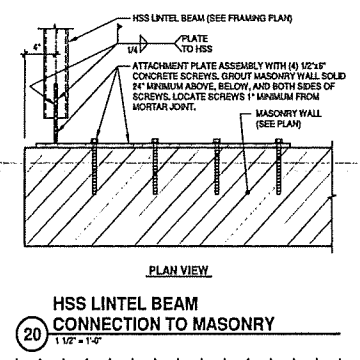
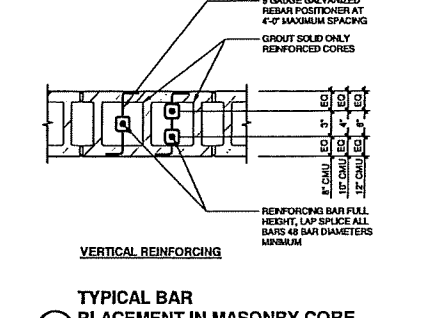
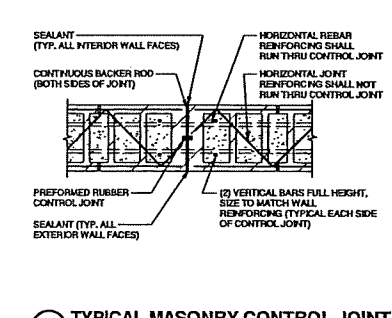
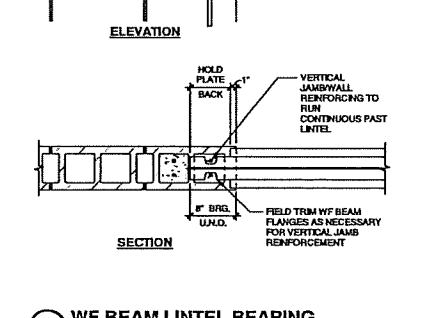
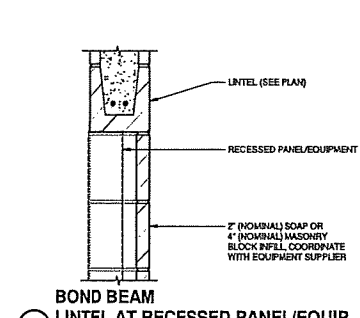
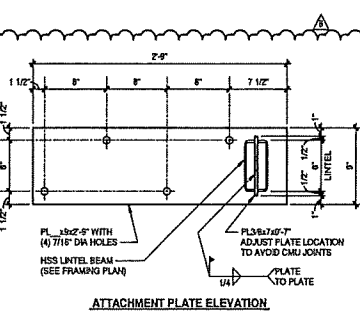
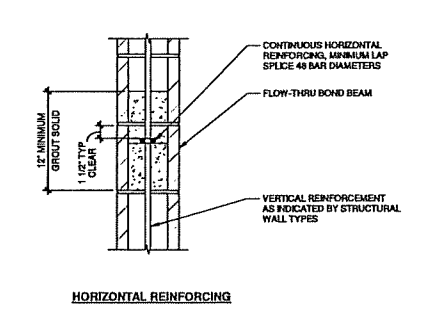
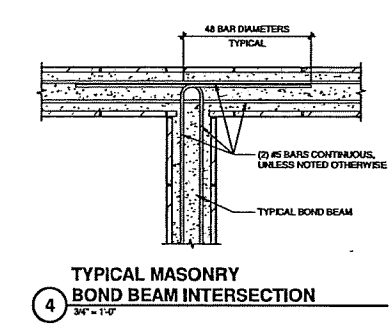
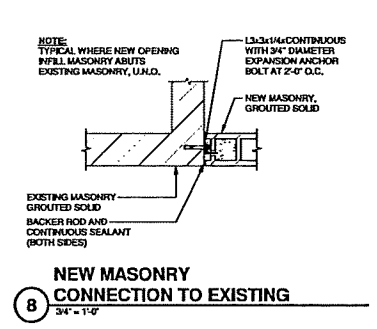
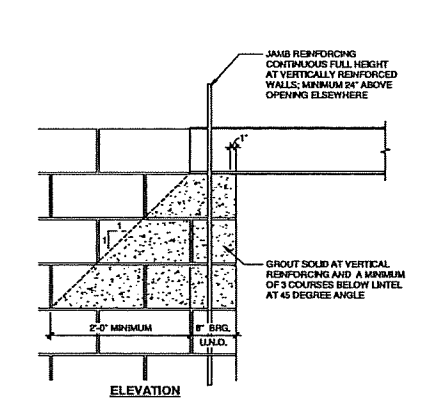
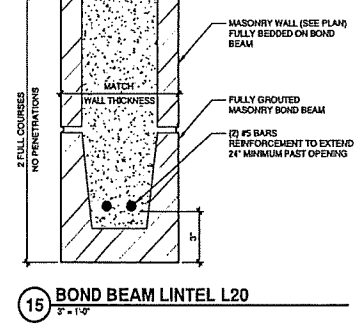
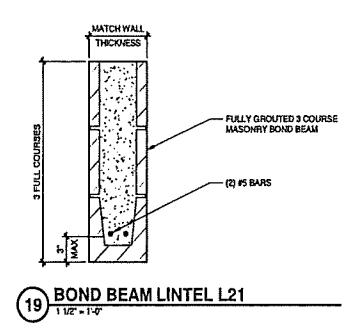
ADDENDUM 2



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/08/21 BDD SET
05/19/21 ADDENDUM #2

03/01/21 (088)
04/08/21 4525500-15086.02
DATE: APRIL 8, 2021
DRAWN BY: DDC
CHECKED BY: NAB / AJE
DATE: 04/08/21
SCALE: AS SHOWN
MASONRY DETAILS



04/08/21 4:57:52 PM C:\Users\lcom\OneDrive\03-08-2020\Arms_msk_sls@meadhunt.com



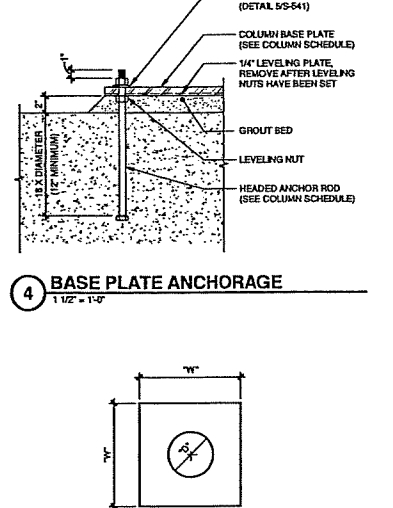
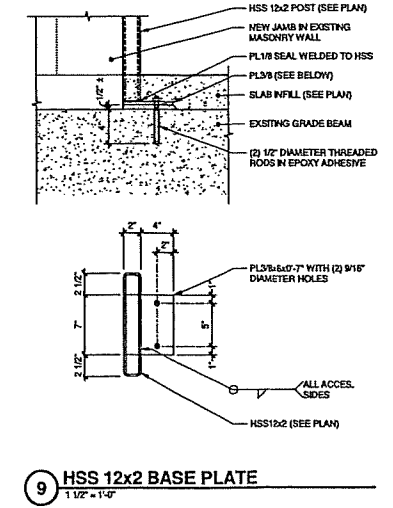
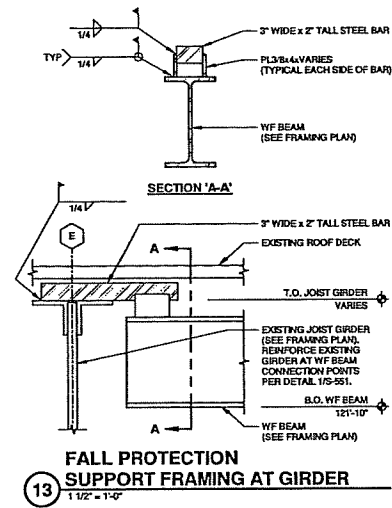
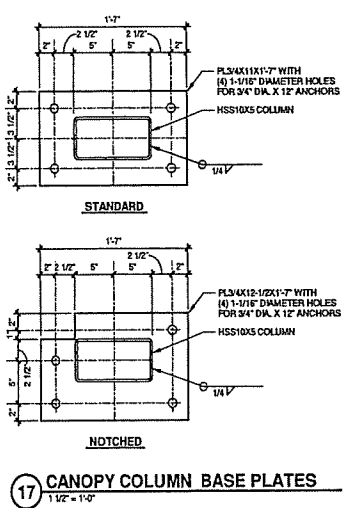
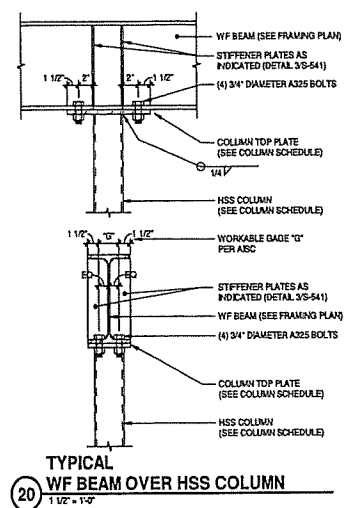
**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

ISSUED:
04/06/21 BID SET
05/13/21 ADDENDUM #2

CONTRACT NO: 8981
MAIN NO: 430320-10096.LD
DATE: APRIL 8, 2021
DESIGNED BY: DFC
DRAWN BY: NAB / MAJE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS
BID SET CONTENTS
FRAMING DETAILS

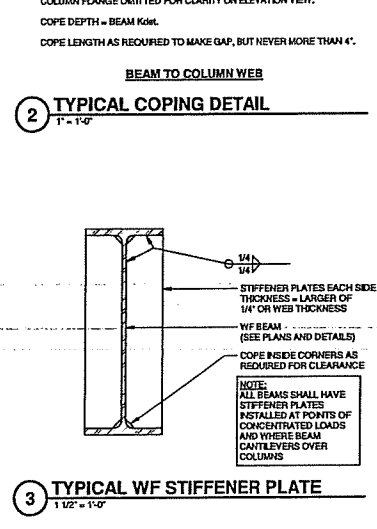
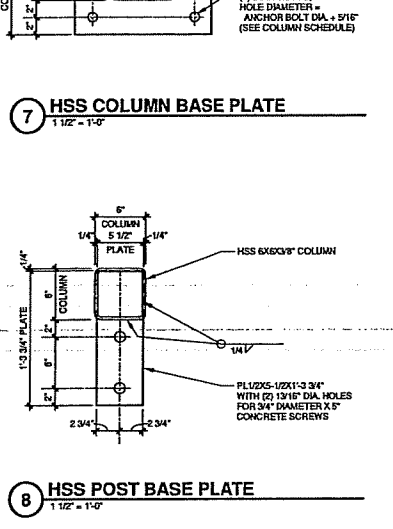
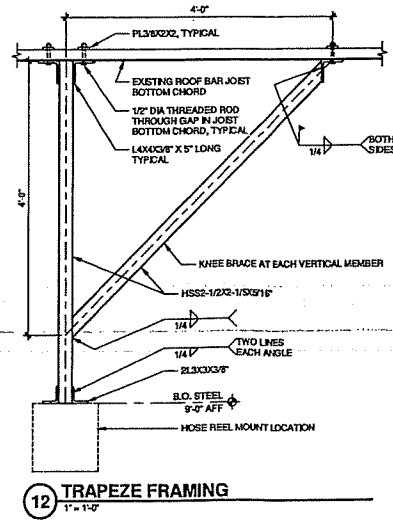
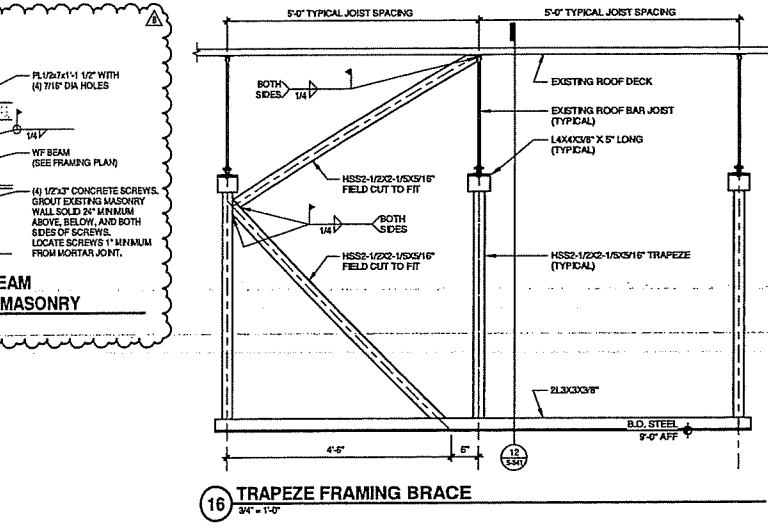
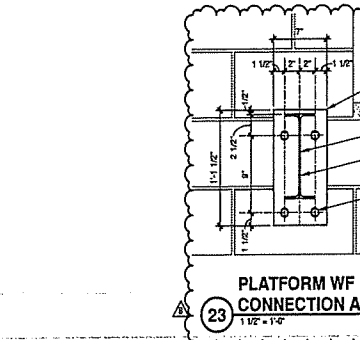
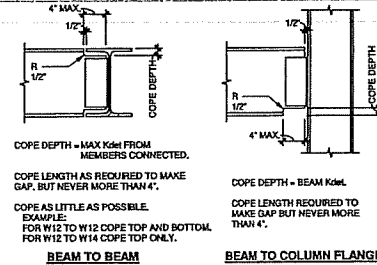
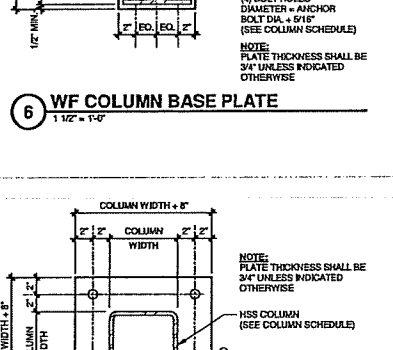
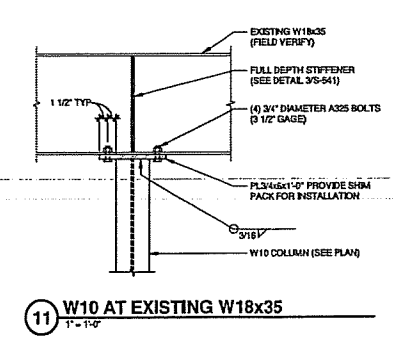
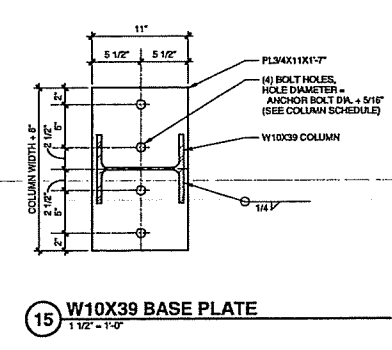
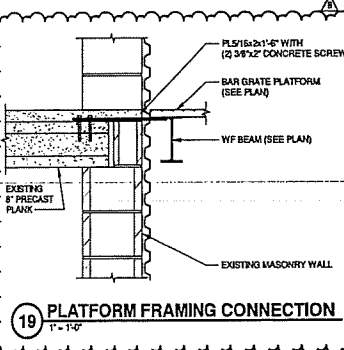
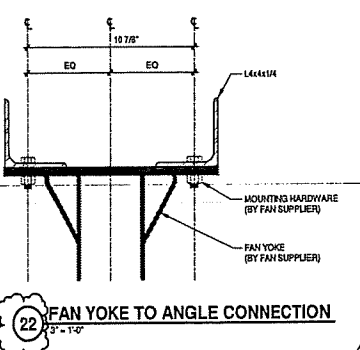
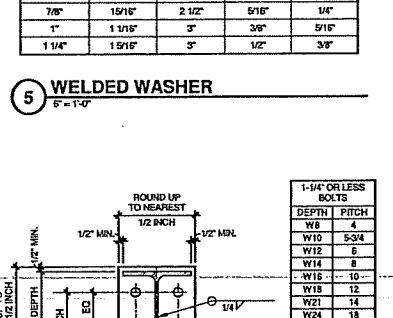
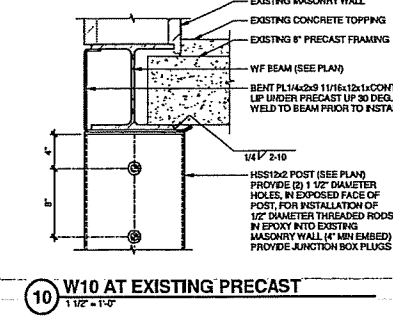
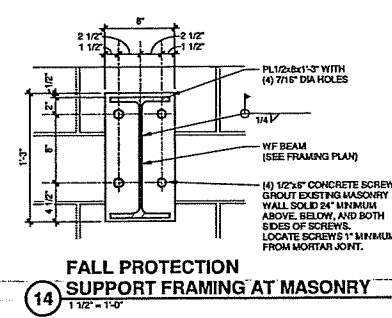
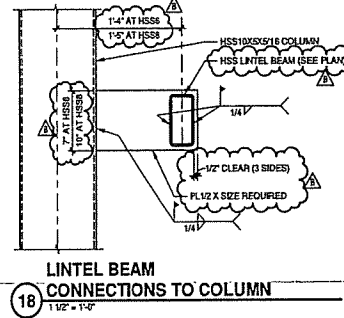
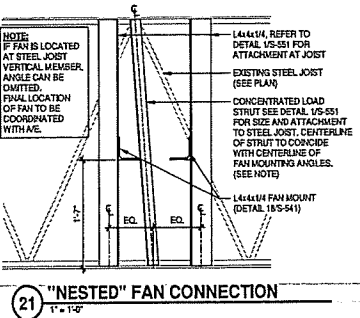
S-541

ADDENDUM 2



NOMINAL BEAM DEPTH (INCHES)	ROWS OF BOLTS (R)	LENGTH OF ANGLE
W30	10	29 1/2"
W33	9	26 1/2"
W36	8	23 1/2"
W40	7	20 1/2"
W44	6	17 1/2"
W48	5	14 1/2"
W54	4	11 1/2"
W60	3	8 1/2"
W66	2	5 1/2"

- SINGLE PLATE SHEAR CONNECTION NOTES**
- ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OR NOTED OTHERWISE.
 - STANDARD HOLES OR HORIZONTAL SHORT SLOT HOLES MAY BE UTILIZED AT CONTRACTOR'S OPTION IN EITHER THE CONNECTION ANGLE OR THE FRAMING MEMBERS.
 - WELD "A" MAY BE USED IN LIEU OF "A" SIDE BOLTS AT CONTRACTOR'S OPTION. WELD SHALL BE ON ALL 3 SIDES.
 - FOR MISS-ALIGNED BOLT HOLES, PROVIDE FIELD WELDS. NOTIFY THE ARCHITECT/ENGINEER OF LOCATIONS USING FIELD WELDED CONNECTION.
 - REFER TO TYPICAL COPING DETAIL 95-541 FOR CONNECTIONS WHERE COPING IS REQUIRED.
 - THIS DETAIL IS NOT INTENDED FOR EVERY WF SECTION. CHECK RIDING THE FLLET AND COPE DEPTH PRIOR TO FABRICATION.



C:\Users\james@meadhunt.com\Documents\2021\10096.LD\10096.LD.dwg

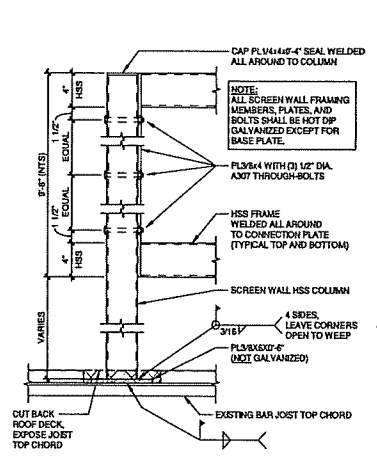


**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

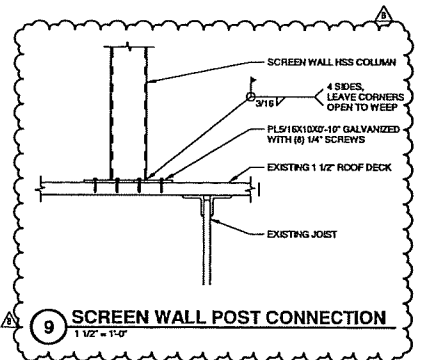
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 05/13/21 ADDENDUM #2

CONTRACT NO: 8581
 DRAWING NO: 4503300-190896.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DND
 DRAWN BY: HJB / MJE
 CHECKED BY: DRM
 DO NOT SCALE DRAWINGS

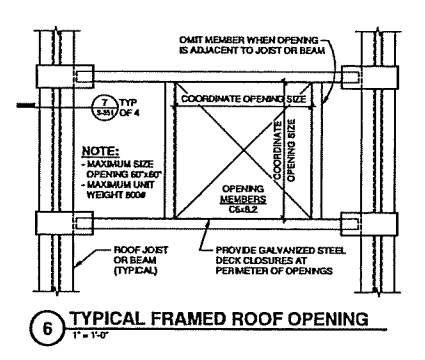
APPENDUM 2



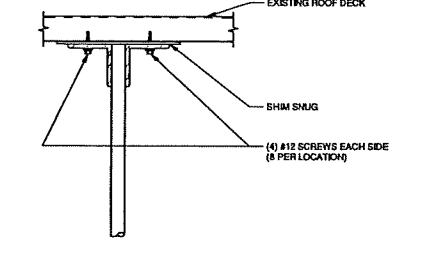
14 SCREEN WALL POST CONNECTIONS
 1/2" = 1'-0"



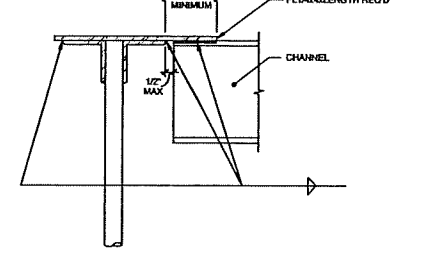
9 SCREEN WALL POST CONNECTION
 1/2" = 1'-0"



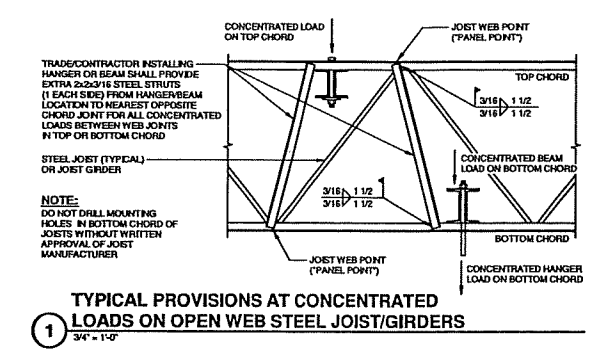
6 TYPICAL FRAMED ROOF OPENING
 1" = 1'-0"



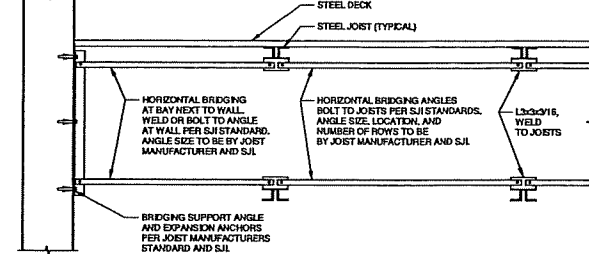
10 JOIST TO DECK CONNECTION
 3" = 1'-0"



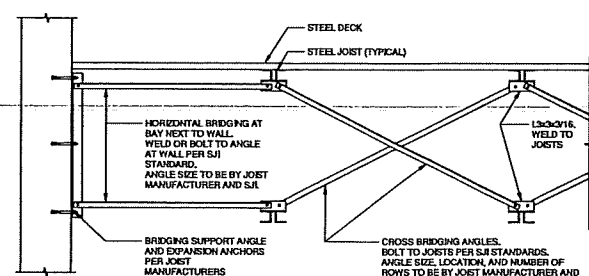
7 CHANNEL TO JOIST CONNECTION
 3" = 1'-0"



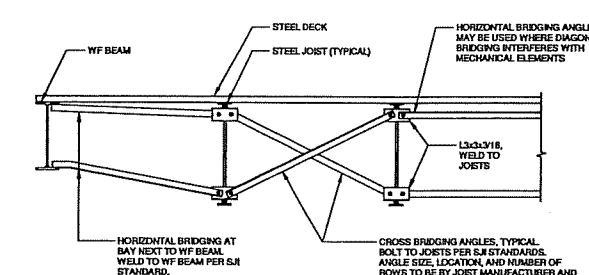
1 TYPICAL PROVISIONS AT CONCENTRATED LOADS ON OPEN WEB STEEL JOIST/GIRDERS
 3/4" = 1'-0"



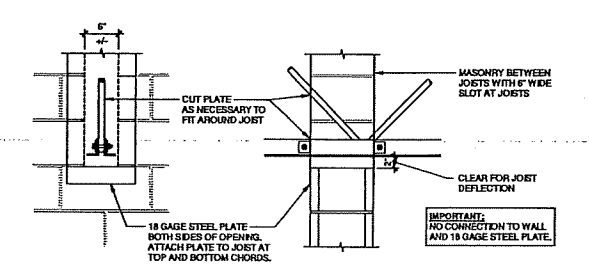
2 HORIZONTAL JOIST BRIDGING AT WALL
 3/4" = 1'-0"



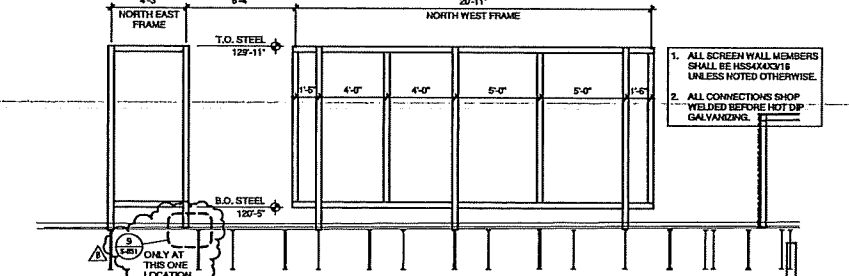
3 DIAGONAL JOIST BRIDGING AT WALL
 3/4" = 1'-0"



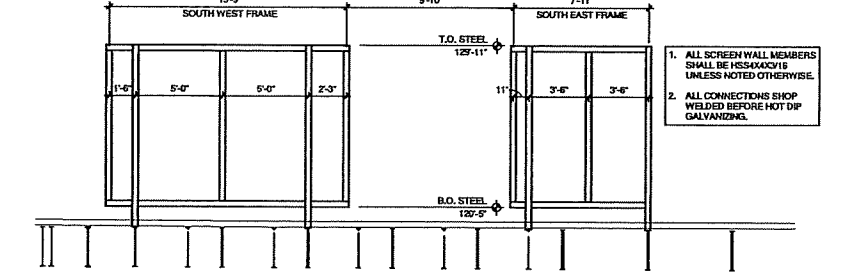
4 JOIST BRIDGING AT WF BEAM
 3/4" = 1'-0"



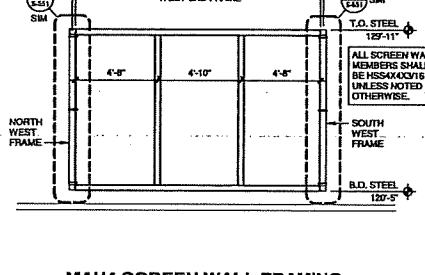
5 JOIST DEFLECTION PROVISIONS AT NON-LOAD BEARING MASONRY, TYPICAL
 1" = 1'-0"



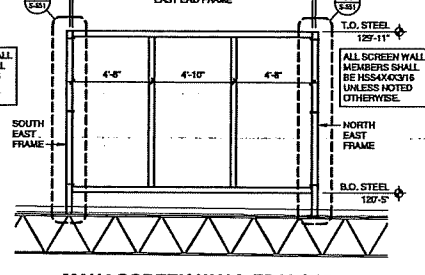
11 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING SOUTH)
 1/4" = 1'-0"



12 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING NORTH)
 1/4" = 1'-0"



13 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING EAST)
 1/4" = 1'-0"



8 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING WEST)
 1/4" = 1'-0"

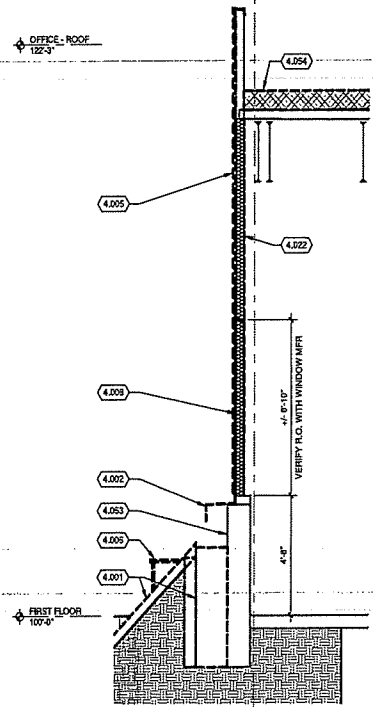
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DEMOLITION PLAN GENERAL NOTES:

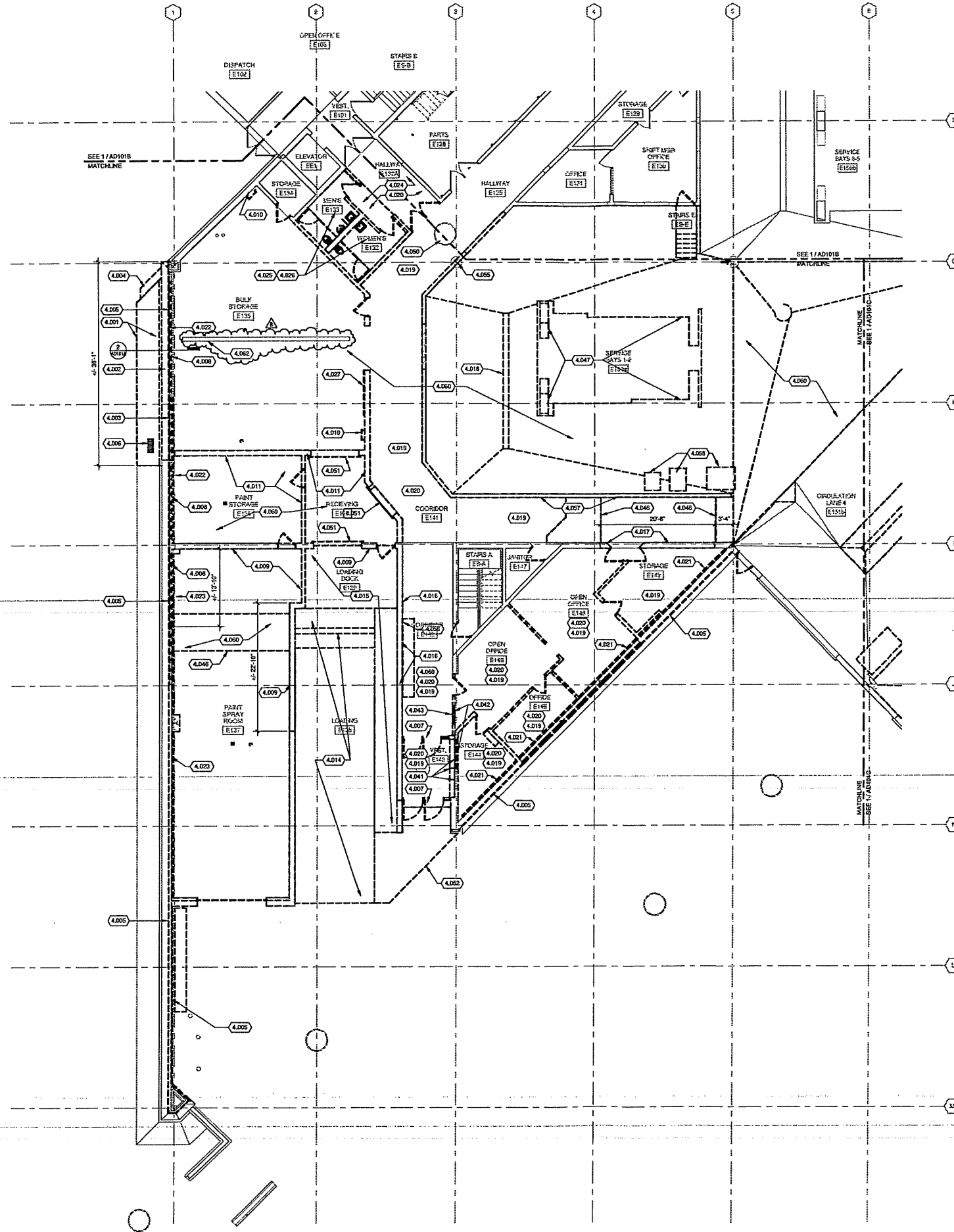
1. THE GENERAL CONTRACTOR SHALL VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH SCHEDULED DEMOLITION WORK.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND ALL SUBCONTRACTORS FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVEYS, SIGNAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DEPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PLASTER, BEAMS, AND SLABS.
6. EXISTING EXTERIOR WALL STRUCTURE CONSISTS OF METAL PANEL OVER METAL STUDS THAT SET ON AN ELEVATED GRADE BEAM WITH A TOTAL HEIGHT OF 4'-2 1/2"."
7. EXISTING INTERIOR WALLS IN THE WORK AREAS ARE TYPICALLY CMU CONSTRUCTION THAT EXTEND TO THE ROOF DECK AT 22'-3" TALL. LIMITED CMU PARTITIONS STAND AT 12'-4"."
8. SECOND STORIES AND MEZZANINE CONSIST OF PRECAST PLANK - USE CAUTION WITH REMOVALS AND CORING TO PREVENT DAMAGE TO THEIR STRUCTURAL INTEGRITY. REF STRUCTURAL.
9. THE EXISTING MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED FOR FULL REPLACEMENT WITHIN THE WORK AREAS. FOR AREAS OUTSIDE OF THE WORK AREAS, SYSTEMS ARE TO REMAIN AND RECONNECTED TO NEW SERVICES IN THE AREAS OUTSIDE OF THE WORK AREAS. SEE SPECIFIC DISCIPLINE SHEETS FOR COORDINATION.
10. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS. REF: STRUCTURAL, EQUIPMENT, ELECTRICAL, AND PLUMBING DRAWINGS.
11. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
12. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILING, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH IN KIND.
13. COORDINATE WITH OWNER-CONTRACTED ASBESTOS ABATEMENT CONTRACTOR FOR REMOVAL OF SEALANTS CONTAINING ASBESTOS.
14. REFERENCE SHEET A-001 NOTES & SYMBOLS FOR DEMOLITION LEGEND.
15. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING / SEQUENCING AND SITE ACCESS.
16. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

DEMOLITION LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- - - EXISTING CONSTRUCTION TO BE DEMOLISHED, TYP (U/L/O)
- EXISTING DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (U/L/O)



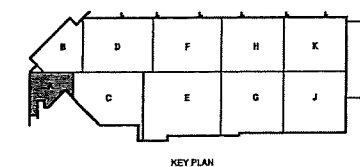
2 DEMOLITION WALL SECTION
3/8" = 1'-0"



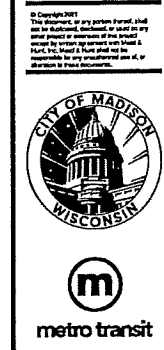
1 FIRST FLOOR DEMOLITION PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES

- 4.001 SAW CUT AND REMOVE PORTION OF SLOPED CONCRETE BARRIER WALL WITH GRAVEL INFILL AT ENTRY LOCATION. USE CAUTION TO NOT DAMAGE ADJACENT CONCRETE GRADE BEAM. PROVIDE SHORING AT END OF WALL FOR REPLACEMENT END CAP.
- 4.002 SAW CUT AND REMOVE PORTION OF BENT PLATE AT ENTRY DOOR TO THE PLAN NORTH CORNER.
- 4.003 SAW CUT AND REMOVE PORTION OF WALL AND GRADE BEAM - REF PLAN SHEETS.
- 4.004 SAW CUT AND REMOVE BRICK WING WALL IN ITS ENTIRETY. CUT FOUNDATION WALL IF BELOW GRADE FOR CIVIL WORK. USE CAUTION TO NOT DAMAGE BRICK VENEER WALL TO REMAIN.
- 4.005 REMOVE METAL PANELS BY FULL SECTIONS TO VERTICAL JOINT OVER EXISTING WALL FRAMING AND CONCRETE GRADE BEAM TO REMAIN. METAL PANEL MASTIC CONTAINS ASBESTOS. COORDINATE WITH ASBESTOS REMOVAL CONTRACTOR BY SEPARATE CONTRACT.
- 4.006 REMOVE AND SALVAGE METAL STEP FOR RELOCATION AT NEW SERVICE ENTRY LOCATION.
- 4.007 REMOVE DOOR VESTIBULE STOREFRONT, DOOR, AND FRAME.
- 4.008 REMOVE PORTION OF WALL FOR WINDOW OPENINGS - REF PLAN SHEETS.
- 4.009 REMOVE PORTION OF STRUCTURAL WALL UP TO 17'-0" APT. PROVIDE ADEQUATE SHORING TO PREVENT DAMAGE TO STRUCTURE. SEE STRUCTURAL FOR DETAILS.
- 4.010 REMOVE LADDER AND ASSOCIATED FASTENERS.
- 4.011 REMOVE WALLS AND ASSOCIATED PRECAST MEZZANINE COMPLETE.
- 4.012 REMOVE WATER AND FIRE PROTECTION SERVICE ENTRY PIPING AND CAP FOR RELOCATION. SEE PLUMBING.
- 4.013 CORE DRILL SLOPED CONCRETE BASE AND GRADE BEAM FOR RELOCATED WATER SERVICE ENTRY. SEE PLUMBING.
- 4.014 REMOVE SLOPED CONCRETE LOADING DOCK DRIVE, TRENCH DRAIN AND SEWER CAP - REF CIVIL AND STRUCTURAL.
- 4.015 REMOVE LOADING DOCK CONCRETE LANDINGS, RAILINGS, DOCK LEVELER, AND BUMPERS COMPLETE.
- 4.016 REMOVE PORTION OF WALL FOR NEW OPENING. PROVIDE SHORING TO PREVENT DAMAGE TO ADJACENT STRUCTURE.
- 4.017 REMOVE PORTION OF STRUCTURAL WALL. PROVIDE ADEQUATE SHORING TO PREVENT DAMAGE TO STRUCTURE. SEE STRUCTURAL FOR DETAILS.
- 4.018 REMOVE TRENCH DRAIN COMPLETE AND CAP PIPING - REF PLUMBING.
- 4.019 REMOVE VINYL TILE FLOOR COMPLETE.
- 4.020 REMOVE ACOUSTIC TILE CEILING AND GRID COMPLETE.
- 4.021 REMOVE GYP WALL FURRING AT PRIMARY WALL STRUCTURE TO REMAIN.
- 4.022 REMOVE INTERIOR GYPSUM PANEL AND ANY INTERIOR INSULATION AT THE FULL EXTENT OF WEST WALL IN ROOM. EXISTING METAL STUDS TO REMAIN.
- 4.023 REMOVE INTERIOR METAL PANEL AND INSULATION FULL HEIGHT. SALVAGE PANELS FROM FOR REINSTALLATION IN WATER SERVICE ENTRY AND THE ROOM.
- 4.024 REMOVE RUBBER SHEET FLOORING COMPLETE.
- 4.025 REMOVE TOILET ROOMS WALLS, PORCELAIN TILE FLOOR & BASE, PLUMBING FIXTURES, PARTITIONS, LOCKERS, AND ACCESSORIES COMPLETE FOR NEW CONFIGURATION. CAP PLUMBING AT REMOVED FIXTURES. CUT CONCRETE FLOOR FOR NEW FIXTURES - REF LAYOUT DRAWINGS.
- 4.026 REMOVE PRECAST LID OVER TOILET ROOMS.
- 4.027 REMOVE SLIDING DOOR AND ASSOCIATED HARDWARE.
- 4.041 REMOVE COUNTERSHELF, DISPLAY CASE AND TACK BOARD.
- 4.042 REMOVE ALUMINUM WINDOW AND FRAME COMPLETE.
- 4.043 REMOVE TV DISPLAY CASE AND ALL ASSOCIATED EQUIPMENT. SALVAGE ELECTRONIC EQUIPMENT AND BRACKETS TO OWNER.
- 4.046 REMOVE CONCRETE FLOOR REQUIRED TO INSTALL NEW CMU WALL - SEE STRUCTURAL.
- 4.047 REMOVE EQUIPMENT LIFTS AND FOUNDATIONS.
- 4.050 CATCH BASIN TO REMAIN. SEE PLUMBING DRAWINGS.
- 4.051 REMOVE OVERHEAD DOOR, RAIS, AND MOTORS, COMPLETE.
- 4.052 REMOVE CONCRETE SLAB.
- 4.053 EXISTING GRADE BEAM TO REMAIN INTACT.
- 4.054 REMOVE PORTION OF ROOFING AND INSULATION SYSTEM DOWN TO DECK FOR STRUCTURAL REINFORCEMENT AT OVERHANG AREA. WORK SHALL BE COMPLIANT TO MAINTAIN ROOF WARRANTY.
- 4.055 PROTECT EXISTING COLUMN AT WALL REMOVAL, TYP.
- 4.056 REMOVE COUNTERTOP COMPLETE.
- 4.057 REMOVE MULTIPLE TACK BOARDS AND SALVAGE TO OWNER.
- 4.058 EQUIPMENT REMOVAL - REF O-SHEETS FOR SCOPE OF WORK.
- 4.060 REMOVE PORTION OF SLAB TO ACCOMMODATE NEW LAYOUT AND INFRASTRUCTURE - REF STRUCTURAL.
- 4.062 REMOVE OVERHEAD CRANE AND RAILS COMPLETE. SALVAGE TO OWNER.



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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

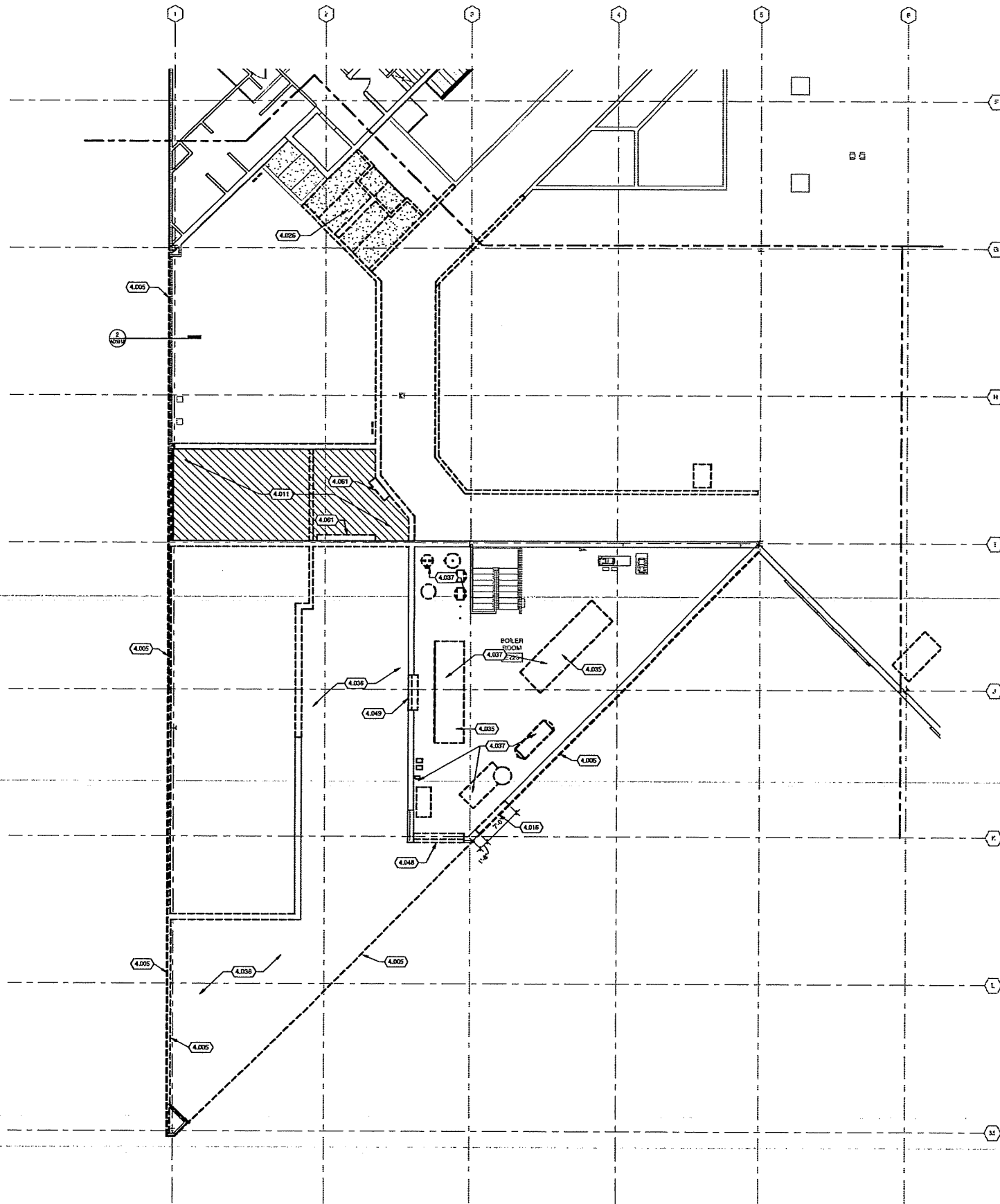
ISSUED
04/06/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO: B981
PLAN NO.: 4502500-150096.03
DATE: APR. 6, 2021
DESIGNED BY: SZK
DRAWN BY: NRD, DJM
CHECKED BY: RCL, REK
DO NOT SCALE DRAWINGS

SHEET CONTAINS
FIRST FLOOR
DEMOLITION PLAN-
AREA A

AD101A

ADDENDUM 2



DEMOLITION PLAN GENERAL NOTES:

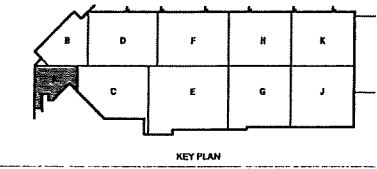
1. THE GENERAL CONTRACTOR SHALL VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH SCHEDULED DEMOLITION WORK.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND ALL SUBCONTRACTORS FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVING, SEWAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DISPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PLASTER, BEAMS, AND SLABS.
6. EXISTING EXTERIOR WALL STRUCTURE CONSISTS OF METAL PANEL OVER METAL STUDS THAT SIT ON AN ELEVATED GRADE BEAM WITH A TOTAL HEIGHT OF 4'-2 1/2".
7. EXISTING INTERIOR WALLS IN THE WORK AREAS ARE TYPICALLY CMU CONSTRUCTION THAT EXTEND TO THE ROOF DECK AT 22'-3" TALL. LIMITED CMU PARTITIONS STAND AT 12'-4".
8. SECOND STORES AND MEZZANINE CONSIST OF PRECAST PLANK - USE CAUTION WITH REMOVALS AND CORING TO PREVENT DAMAGE TO THEIR STRUCTURAL INTEGRITY. REF: STRUCTURAL.
9. THE EXISTING MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED FOR FULL REPLACEMENT WITHIN THE WORK AREAS. FOR AREAS OUTSIDE OF THE WORK AREAS, SYSTEMS ARE TO REMAIN AND RECONNECTED TO NEW SERVICES IN THE AREAS OUTSIDE OF THE WORK AREAS. SEE SPECIFIC CORING SHEETS FOR COORDINATION.
10. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS. REF: STRUCTURAL, EQUIPMENT, ELECTRICAL, AND PLUMBING DRAWINGS.
11. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
12. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILINGS, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH IN KIND.
13. COORDINATE WITH OWNER-CONTRACTED ASBESTOS ABATEMENT CONTRACTOR FOR REMOVAL OF SEALANTS CONTAINING ASBESTOS.
14. REFERENCE SHEET A-001 NOTES & SYMBOLS FOR DEMOLITION LEGEND.
15. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING / SEQUENCING AND SITE ACCESS.
16. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

DEMOLITION LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE DEMOLISHED, TYP (U/L/O.)
- EXISTING DOOR TO REMAIN
- DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (U/L/O.)

KEYED NOTES

- 4.005 REMOVE METAL PANELS BY FULL SECTIONS TO VERTICAL JOINT OVER EXISTING WALL FRAMING AND CONCRETE GRADE BEAM TO REPAIR METAL PANEL MASTIC CONTAINS ASBESTOS. COORDINATE WITH ASBESTOS REMOVAL CONTRACTOR BY SEPARATE CONTRACT.
- 4.011 REMOVE WALLS AND ASSOCIATED PRECAST MEZZANINE COMPLETE
- 4.015 REMOVE PORTION OF WALL FOR NEW OPENING. PROVIDE SHORING TO PREVENT DAMAGE TO ADJACENT STRUCTURE
- 4.025 REMOVE PRECAST LID OVER TOILET ROOMS
- 4.035 REMOVE CONCRETE EQUIPMENT PADS - GRIND FOR SMOOTH FLOOR PATCH TRANSITION
- 4.038 AT SOFFIT ABOVE, REMOVE PLASTER AND LATH COMPLETE WITH STRUCTURAL FRAMING TO REMAIN FOR NEW SOFFIT SYSTEM
- 4.037 REMOVE EQUIPMENT FOR REPLACEMENTS, TYP - REF G-101 FOR SEQUENCING AND MEP FOR SPECIFIC REQUIREMENTS.
- 4.044 REMOVE MECHANICAL LOUVER, INSTALL NEW LOUVER IN SAME OPENING
- 4.049 REMOVE MECHANICAL LOUVER, INFILL CMU TO MATCH WALL CONDITION
- 4.061 SOLAR COLLECTORS TO BE REMOVED BY THE CITY. SEE G-101 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.



TRUE PLAN NORTH NORTH

1 SECOND FLOOR DEMOLITION PLAN - AREA A
 1/8" = 1'-0"

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**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

DATE: 04/08/21 BID SET
 B 05/13/21 ADDENDUM #2

CONTRACT NO: 5581
 SHEET NO: 400000-190096.03
 DATE: APRIL 8, 2021
 DESIGNED BY: SDK
 DRAWN BY: NJD, DJM
 CHECKED BY: RCL, REK
 DO NOT SCALE DRAWINGS

SHEET CONTAINS:
 SECOND FLOOR
 DEMOLITION PLAN -
 AREA A

SHEET NO:
AD102A

Addendum 2

04/11/2021 10:25:43 AM C:\Users\lucy110888\OneDrive\My Documents\Projects\NWD\102A\102A.dwg

ADDENDUM 2

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

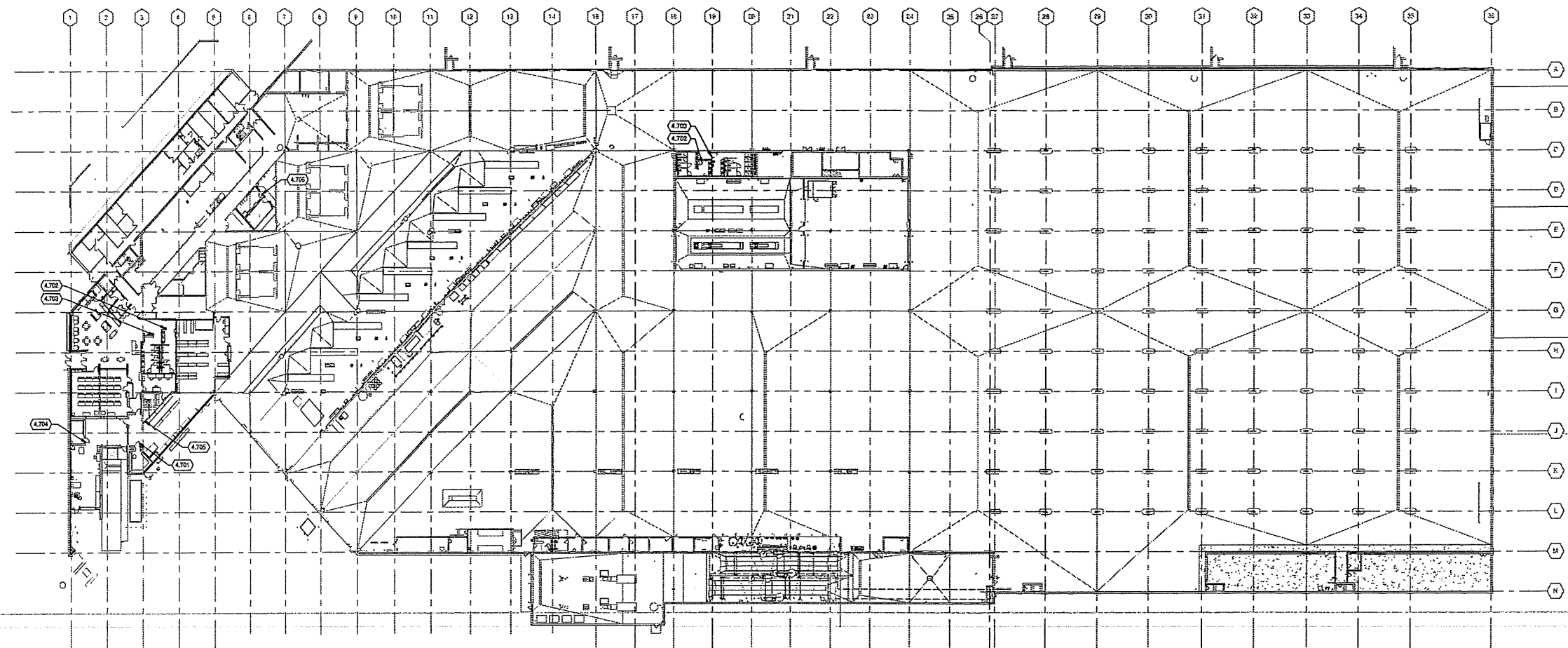
CONTRACT NO. 8981
SHEET NO. 4502300-190896.03

DATE: APRIL 8, 2021
DESIGNED BY: SCW
DRAWN BY: NJD, DAM
CHECKED BY: RCL, REK
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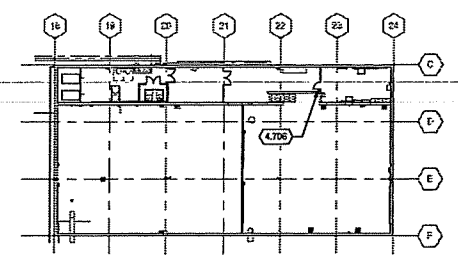
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SIGNAGE PLANS
AND TYPES

SHEET NO.

A-801



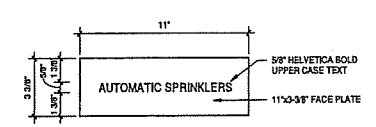
1 FIRST FLOOR SIGNAGE PLAN
1/4" = 1'-0"



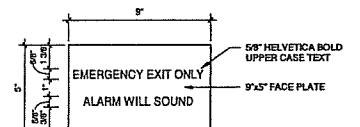
2 PARTIAL SECOND FLOOR SIGNAGE PLAN
1/4" = 1'-0"

KEYED NOTES

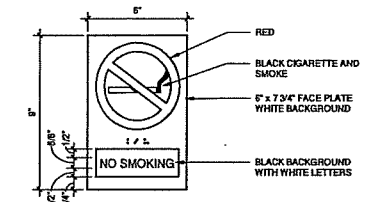
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- 4.702 PROVIDE SIGN TYPE: ID-02
- 4.703 PROVIDE SIGN TYPE: ID-03
- 4.704 PROVIDE SIGN TYPE: ID-07
- 4.705 PROVIDE SIGN TYPE: ID-08 & ID-09
- 4.706 PROVIDE SIGN TYPE: ID-08



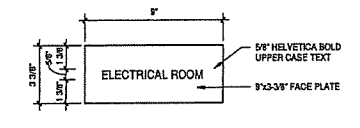
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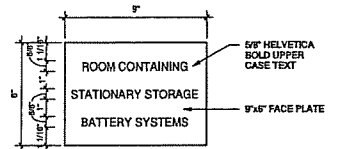
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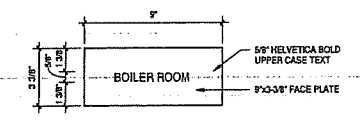
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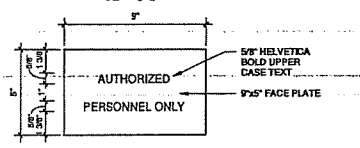
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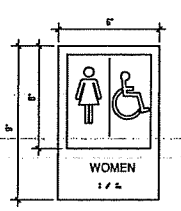
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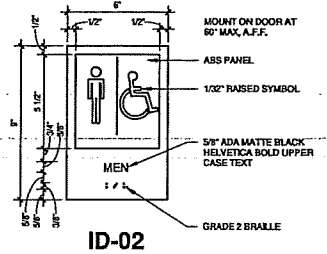
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ID-06



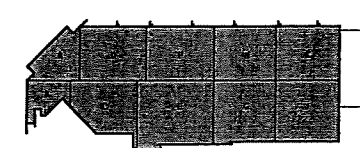
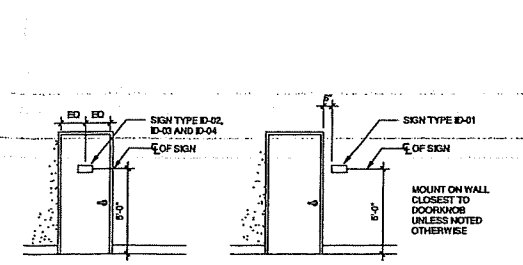
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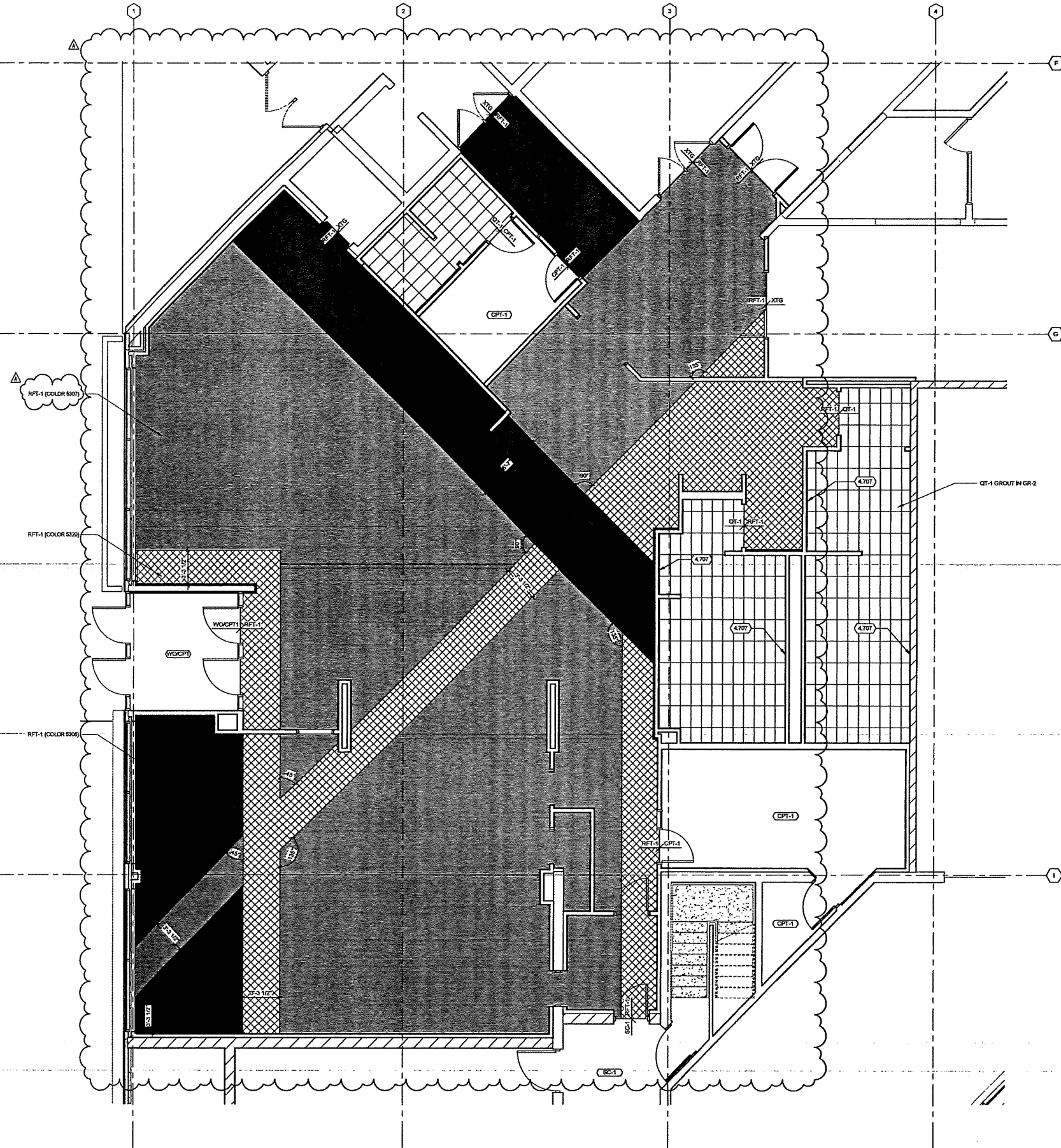
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4 SIGNAGE DETAILS
3/4" = 1'-0"

3 SIGN MOUNTING
1/4" = 1'-0"



KEY PLAN



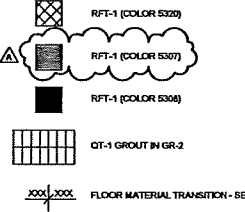
FLOOR FINISH GENERAL NOTES:

1. REFER TO FINISH SCHEDULE, SHEET 1401 FOR MATERIAL SELECTION AND COLOR.
2. REFER TO SHEET 1401 FOR "INTERIORS FINISH" ABBREVIATIONS.
3. REFER TO ROOM FINISH SCHEDULE, SHEET 1401 FOR ALL ROOM FINISHES NOT NOTED ON PLAN.
4. SEE "ARCHITECTURAL FINISH LIST" IN SPECIFICATIONS FOR MATERIAL INFORMATION.
5. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR IN CLOSED POSITION U.I.L.O. REFER TO SHEET 1401 FOR FLOORING PATTERN PLAN AND FLOORING TRANSITIONS. REFER TO SHEET 1401 FOR TYPICAL TRANSITION DETAILS.
6. ALL CONCRETE FLOORS NOT TO RECEIVE ADDITIONAL FINISH SHALL BE SEALED, U.I.L.O.

KEYED NOTES

A.707 BASE COVE DETAIL SEE 04-501

FLOORING PATTERN LEGEND:



Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-4380
meadhunt.com

DESTREE
architects & design

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

33,800
04/06/21 BID SET
A 05/06/21 ADDENDUM #1

CONTRACT NO: 0991
SHEET NO: 025000-190086LD
DATE: APRIL 8, 2021
DESIGNED BY: SZK
DRAWN BY: RLD, EJM
CHECKED BY: RIC, REK
SCALE: AS SHOWN

PROJECT: METRO TRANSIT
FLOORING PATTERN PLAN

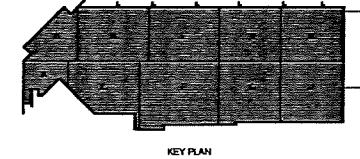
SHEET NO:

1-401

ADDENDUM 2

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1 FIRST FLOOR PATTERN PLAN - AREA A
1/4" = 1'-0"



ROOM FINISH SCHEDULE table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WALLS (NORTH, EAST, SOUTH, WEST), CEILING (MTL, HEIGHT), REMARKS. Includes rooms like 1101 VESTIBULE, 1102 HALLWAY, 1103 GENERAL BREAK ROOM, etc.

ROOM FINISH SCHEDULE 3A ALTERNATE NO. 1 table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WALLS (NORTH, EAST, SOUTH, WEST), CEILING (MTL, HEIGHT), REMARKS. Includes rooms like 1301 WEST, 1302 MEN'S, 1303 WOMEN'S, etc.

INTERIOR FINISHES SCHEDULE table with columns: FINISH NUMBER, FINISH DESCRIPTION, MANUFACTURER, MODEL NUMBER, STYLE, COLOR, SIZE, REMARKS. Lists materials like acoustic ceiling tile, aluminum trim, wall panels, etc.

GENERAL FINISH NOTES:

- 1. ALL INTERIOR HM DOOR FRAME FINISHES AND METAL DOORS TO BE PAINTED PT-4 UNLESS OTHERWISE NOTED.
2. ALL PLAM-1 TO RUN IN THE VERTICAL DIRECTION UNLESS NOTED OTHERWISE.
3. SEE FINISH PLAN 1-101A, ELEVATION 44-004 (TYPICAL), AND ELEVATION M-404 FOR VERTICAL PARTITION FINISHES.
4. ALL CORNER GUARDS TO MATCH WALL PAINT COLOR.
5. WWC-2 TO BE OWNER SUPPLIED, OWNER INSTALLED.
6. STAIR nosings WITH YELLOW VISUALLY IMPAIRED STRIPS AT THE TOP OF STAIR FLIGHTS. ALL OTHER STAIRS TO HAVE STAIR TREADS WITH YELLOW VISUALLY IMPAIRED STRIPS.

INTERIORS FINISH ABBREVIATIONS:

- ACT = ACOUSTICAL CEILING TILE
APT = ALUMINUM PERIMETER TRIM
CG = CORNER GUARD
CONC = CONCRETE
CMU = CONCRETE MASONRY UNIT
CPT = CARPET
CT = CERAMIC TILE
EXP = EXPOSED
GR = GROUT
DWB = GYPSUM WALL BOARD
LWC = LINEAR METAL CEILING
MB = MARKER BOARD
PAB = POLYESTER ACOUSTICAL BOARD
PLAM = PLASTIC LAMINATE
PMTL = PERFORATED METAL
PT = QUARRY TILE
RB = RUBBER BASE
RFT = RUBBER FLOOR TILE
RT = RUBBER TRANSITION
SCH = SEALED CONCRETE
SCHL = SCHLUTER
SSM = SOLID SURFACE MATERIAL
TB = TACKBOARD
UPH = UPHOLSTERY
WVC = VINYL WALLCOVERING
WD = WOOD
WDF = WOOL DESIGN FELT
WOCPT = WALK OFF CARPET



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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

DATE: 04/06/21 BID SET
A 05/06/21 ADDENDUM #1

CONTRACT NO: 8981
ISSUE NO: 4503500-190696.00
DATE: APRIL 6, 2021
DESIGNED BY: SE
DRAWN BY: NJD, DJM
CHECKED BY: RCL, REK
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

ADDENDUM 2

ADDENDUM 2

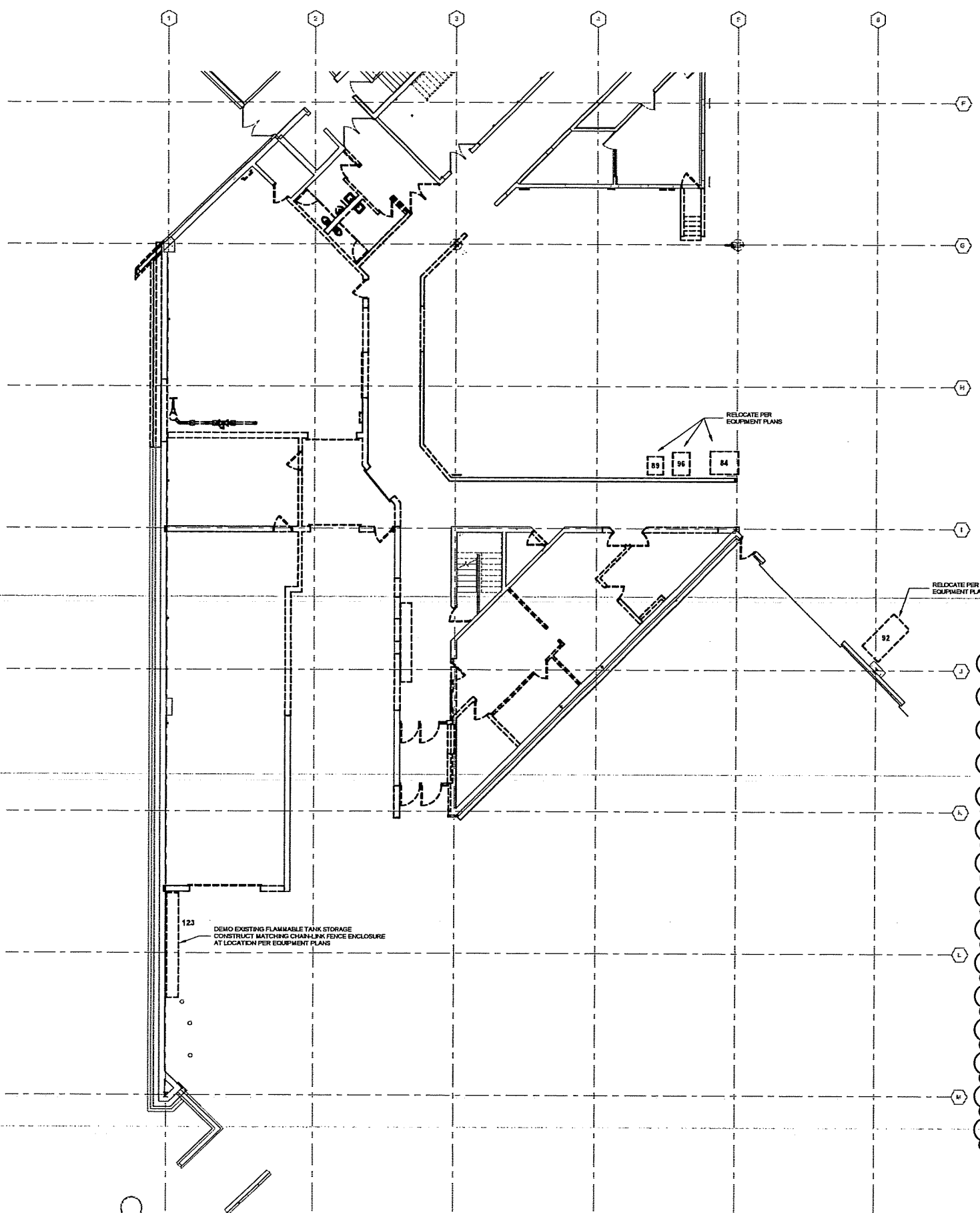


CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

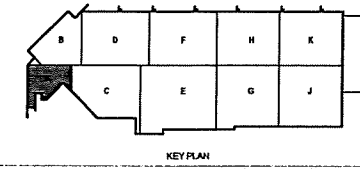
04/06/21 BID SET
 B 05/13/21 ADDENDUM #2

CONTRACT NO: 8561
 DRAWING NO: 4503500-100095.00
 DATE: APRIL 9, 2021
 DESIGNED BY: JFW
 DRAWN BY: RES
 CHECKED BY: Checkat
 DO NOT SCALE DRAWINGS
 SHEET CONTAINS:
 FIRST FLOOR DEMOLITION PLAN - AREA A

QD101A



Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rem Clamp Tire Machine	1	X	X		
3	Desk 60"W x 30"D	3			X	X
6	Tire Cage	1	X	X		
9	2-Tier Locker - 12"x15"x 7"	6			X	X
20	Tool Cabinet	30	X	X		
21	Work Benches 5'-0"W x 3'-0"D x 3'-0"H	18			X	X
34	Snow/Washer SW-57	9			X	X
35	Oil King 25 gal Used-Oil Receiver	11			X	X
45	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1	X	X		
58	Battery Charging Bench	1	X	X		
80	Pallet Storage Floor Space	1	X	X		
83	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X	X		X
89	Bulk Fluid Storage Tank #2	1	X	X		X
91	Dumping Hopper	1	X	X		X
92	Isator	1	X	X		X
96	Oil Filter Crusher	1	X	X		X
101	Bulk Fluid Storage Tank #3	1	X	X		X
106	Rack Shelving - 3D x 10W x 8H	3	X	X		X
113	Rack Shelving - 3D x 10W x 8H	1	X	X		X
119	Rack Shelving - 3D x 10W x 8H	2	X	X		X
122	Tire Machine	1	X	X		X
123	Flammable Tank Storage	1	X	X	X	X
127	Oil Press	1	X	X	X	X
128	Horizontal Band Saw	1	X	X	X	X
129	Tire Carousel	1			X	X
130	Parts Carousel	1			X	X
131-13	ECCO-40-10	1			X	X
131-14	ECCO-40-10	1			X	X
131-15	ECCO-40-10	1			X	X
131-16	ECCO-40-10	1			X	X
131-17	ECCO-40-10	1			X	X
131-18	ECCO-40-10	1			X	X
131-19	ECCO-40-10	1			X	X
131-20	ECCO-40-10	1			X	X
131-21	ECCO-40-10	1			X	X
131-22	ECCO-40-17	1			X	X
133-13	ECCO-40 Control Console	1			X	X
133-14	ECCO-40 Control Console	1			X	X
133-15	ECCO-40 Control Console	1			X	X
133-16	ECCO-40 Control Console	1			X	X
133-17	ECCO-40 Control Console	1			X	X
133-18	ECCO-40 Control Console	1			X	X
133-19	ECCO-40 Control Console	1			X	X
133-20	ECCO-40 Control Console	1			X	X
133-21	ECCO-40 Control Console	1			X	X
133-22	ECCO-40 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6				
B	Rack Shelving - 2D x 8W x 8H	26				
C	Rack Shelving - 3D x 10W x 8H	5				



TRUE PLAN NORTH NORTH
1/8" First Floor Demo Equipment Plan - Area A
 VP = 1/4"

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 04/14/2021 12:55:59 AM

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**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

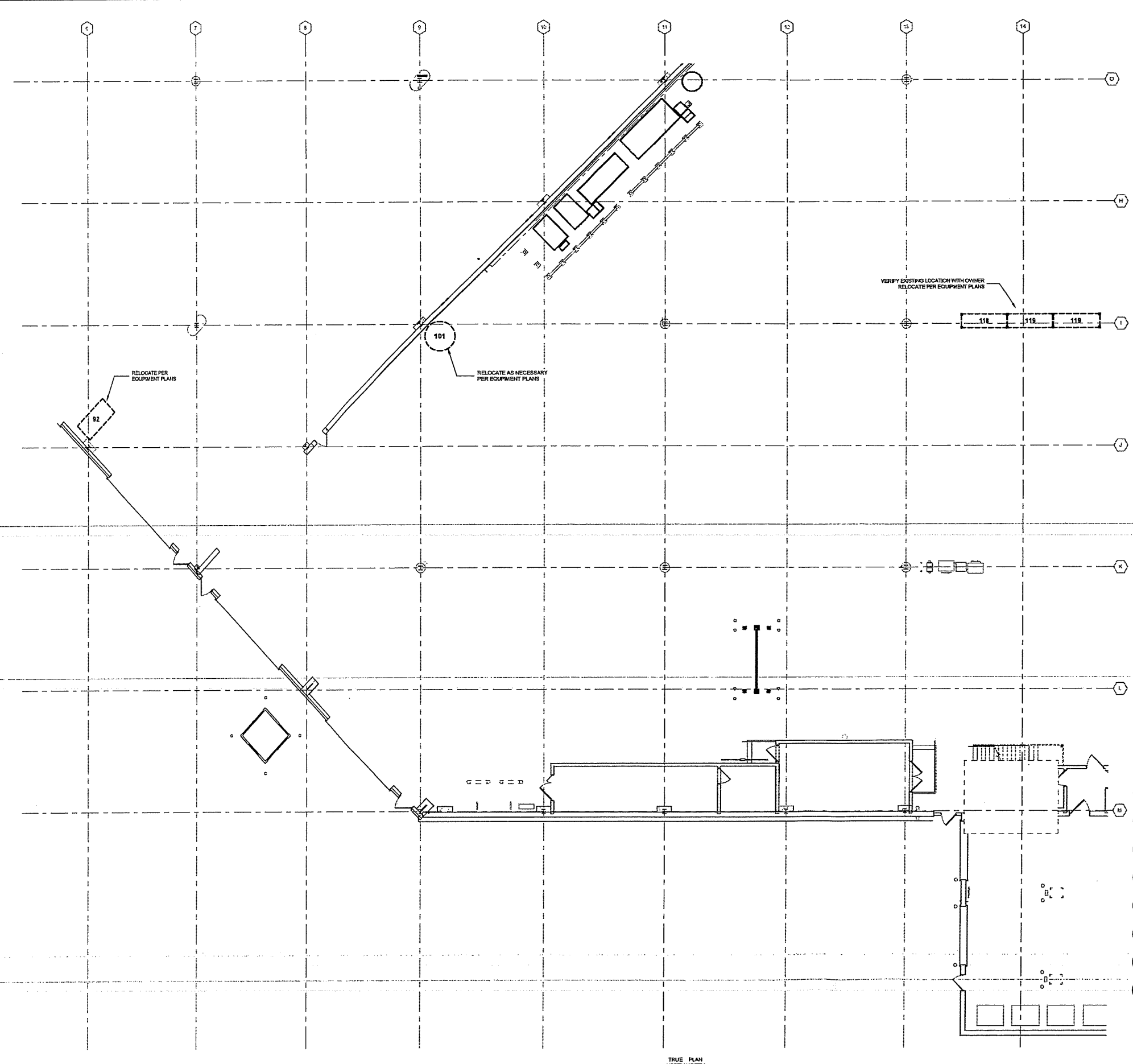
040021 BID SET
 B 05/13/21 ADDENDUM B2

CONTRACT NO: B991
 MAIN NO.: 400000-190695.03
 DATE: APRIL 8, 2021
 DESIGNED BY: JPH
 DRAWN BY: RES
 CHECKED BY: Checker
 80 HIG SCALE DRAWINGS

SHEET CONTAINS
 FIRST FLOOR
 DEMOLITION PLAN -
 AREA C

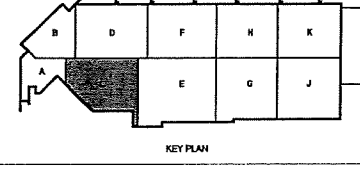
SHEET NO:
QD101C

ADDENDUM 2



EQUIPMENT SCHEDULE

Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rim Clamp Tire Machine	1	X	X		
3	Desk 60"W x 30"D	3		X	X	
6	Tire Cage	1	X	X		
9	2-Tier Locker - 12"x15"x7"	6		X	X	
20	Tool Cabinet	20	X	X		
21	Work Bench 9'-0"W x 3'-0"D x 3'-0"H	18		X	X	
34	SmartWasher SW-37	9		X	X	
45	Oil King 25 gal Used-Oil Receiver	11		X	X	
46	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1		X	X	
59	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
64	Used Oil Tank	1	X	X		X
89	Bulk Fluid Storage Tank #2	1	X	X		X
91	Dumping Hopper	1	X	X		X
92	Bin	1	X	X		X
96	Oil Filter Crusher	1	X	X		X
101	Bulk Fluid Storage Tank #3	1	X	X		X
105	Rack Shelving - 3D x 10W x 8H	3	X	X		X
118	Rack Shelving - 3D x 10W x 8H	1	X	X		X
119	Rack Shelving - 3D x 10W x 8H	2	X	X		X
122	Tire Machine	1	X	X		X
123	Flammable Tank Storage	1	X	X		X
127	Die Press	1	X	X		X
128	Horizontal Band Saw	1	X	X		X
129	Tire Carousel	1		X	X	
130	Parts Carousel	1		X	X	
131-13	ECCO-60-10	1		X	X	
131-14	ECCO-60-10	1		X	X	
131-15	ECCO-60-10	1		X	X	
131-16	ECCO-60-10	1		X	X	
131-17	ECCO-60-10	1		X	X	
131-18	ECCO-60-10	1		X	X	
131-19	ECCO-60-10	1		X	X	
131-20	ECCO-60-10	1		X	X	
131-21	ECCO-60-10	1		X	X	
132-22	ECCO-60-17	1		X	X	
133-13	ECCO-60 Control Console	1		X	X	
133-14	ECCO-60 Control Console	1		X	X	
133-15	ECCO-60 Control Console	1		X	X	
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133-18	ECCO-60 Control Console	1		X	X	
133-19	ECCO-60 Control Console	1		X	X	
133-20	ECCO-60 Control Console	1		X	X	
133-21	ECCO-60 Control Console	1		X	X	
133-22	ECCO-60 Control Console	1		X	X	
134	Oil Filter Trash Receptacle	1	X	X		X
135	Wash Oil Pump	2		X	X	
A	Rack Shelving - 2D x 8W x 8H	6				
B	Rack Shelving - 2D x 8W x 8H	26				
C	Rack Shelving - 2D x 10W x 8H	5				



TRUE PLAN
 NORTH NORTH
 1
1/8" First Floor Demo Equipment Plan - Area C
 1/8" = 1'-0"

P:\110201\110201.dwg 12:25:48 AM C:\Users\mehall\OneDrive\Documents\2021\QD101C.dwg m_ehall@meadhunt.com

APPENDUM 2

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com

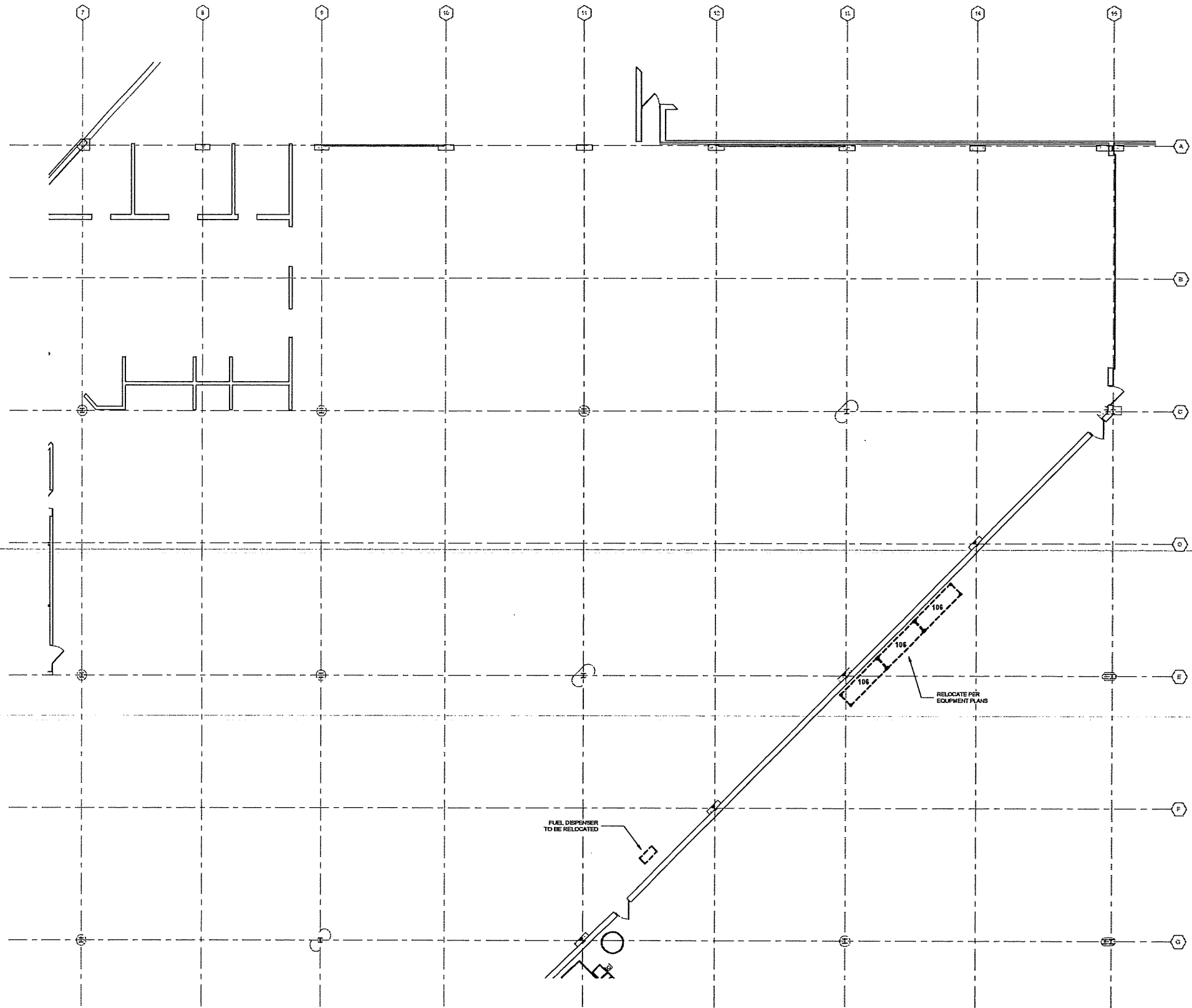


CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/09/21 BID SET
 05/15/21 ADDENDUM #2

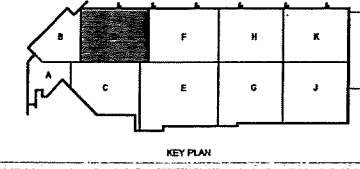
CONTRACT NO: 8881
 SHEET NO: 40000-D-100861-D
 DATE: APRIL 8, 2021
 DESIGNED BY: JPW
 DRAWN BY: RES
 CHECKED BY: Checker
 FIRST FLOOR DEMOLITION PLAN - AREA D

QD101D



TRUE PLAN NORTH NORTH
 1/8" First Floor Demo Equipment Plan - Area D
 1/8" = 1'-0"

EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner (Provided)	Owner (Installed)	GC (Provided)	GC (Installed)
2	Rim Clamp Tire Machine	1	X	X		
3	Deck 60"W x 30"D	3		X	X	
5	Tire Case	1	X	X		
9	2-Tier Locker - 12"x15"x7"	6				
20	Tool Cabinet	30	X	X		
21	Work Bench 5'-0"W x 3'-0"D x 3'-0"H	18				
34	SmartWasher SW-37	9				
35	Oil King 25 gal Used-Oil Receiver	11				
40	Tool Cabinet	1	X	X		
47	Battery Charging Bench	1				
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X	X		X
89	Bulk Fluid Storage Tank #2	1	X	X		X
91	Dumping Hopper	1	X	X		X
92	Scale	1	X	X		X
95	Oil Filter Crusher	1	X	X		X
101	Bulk Fluid Storage Tank #3	1	X	X		X
106	Rack Shelving - 3D x 10W x 8H	3	X			X
118	Rack Shelving - 2D x 10W x 8H	1	X			X
119	Rack Shelving - 2D x 10W x 8H	2	X			X
122	Tire Machine	1	X	X		X
123	Flammable Tank Storage	1	X	X	X	X
127	Oil Press	1	X	X		X
128	Horizontal Band Saw	1	X	X		X
129	Tire Carousel	1			X	X
130	Pallet Carousel	1			X	X
131-13	ECO-60-10	1			X	X
131-14	ECO-60-10	1			X	X
131-15	ECO-60-10	1			X	X
131-16	ECO-60-10	1			X	X
131-17	ECO-60-10	1			X	X
131-18	ECO-60-10	1			X	X
131-19	ECO-60-10	1			X	X
131-20	ECO-60-10	1			X	X
131-21	ECO-60-10	1			X	X
132-22	ECO-60-17	1			X	X
133-13	ECO-60 Control Console	1			X	X
133-14	ECO-60 Control Console	1			X	X
133-15	ECO-60 Control Console	1			X	X
133-16	ECO-60 Control Console	1			X	X
133-17	ECO-60 Control Console	1			X	X
133-18	ECO-60 Control Console	1			X	X
133-19	ECO-60 Control Console	1			X	X
133-20	ECO-60 Control Console	1			X	X
133-21	ECO-60 Control Console	1			X	X
133-22	ECO-60 Control Console	1			X	X
134	Oil Filter/Trash Receipts	1	X	X		X
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6				
B	Rack Shelving - 2D x 8W x 8H	26				
C	Rack Shelving - 2D x 10W x 8H	6				



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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/06/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO: 8581

PLAN NO: 4523500-100896.03

DATE: APRIL 8, 2021

DESIGNED BY: JPW

DRAWN BY: RES

CHECKED BY: Checkra

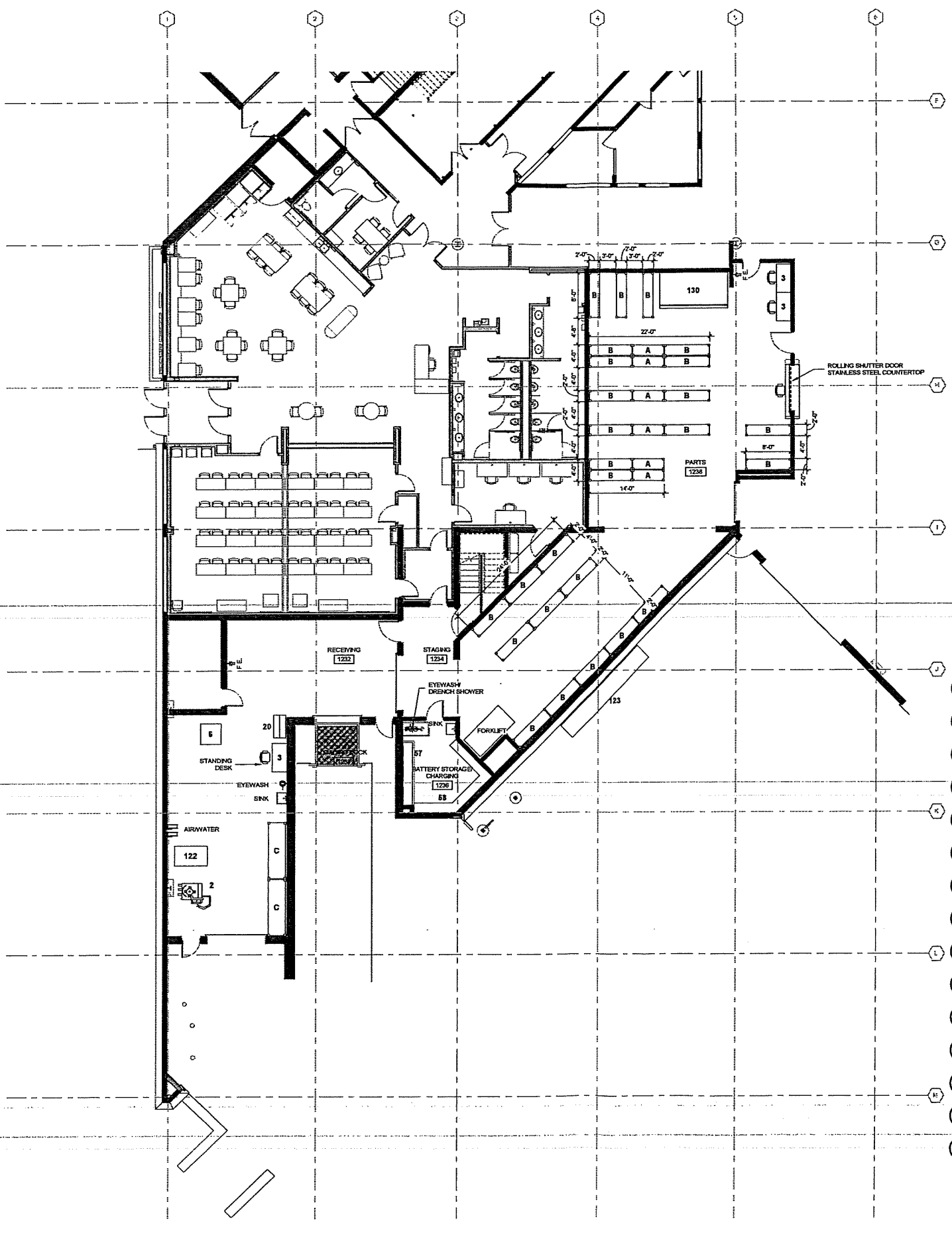
DO NOT SCALE DRAWINGS

SHEET CONTENTS

FIRST FLOOR PLAN -

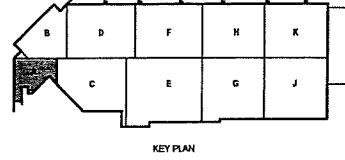
AREA A

Q-101A



EQUIPMENT SCHEDULE

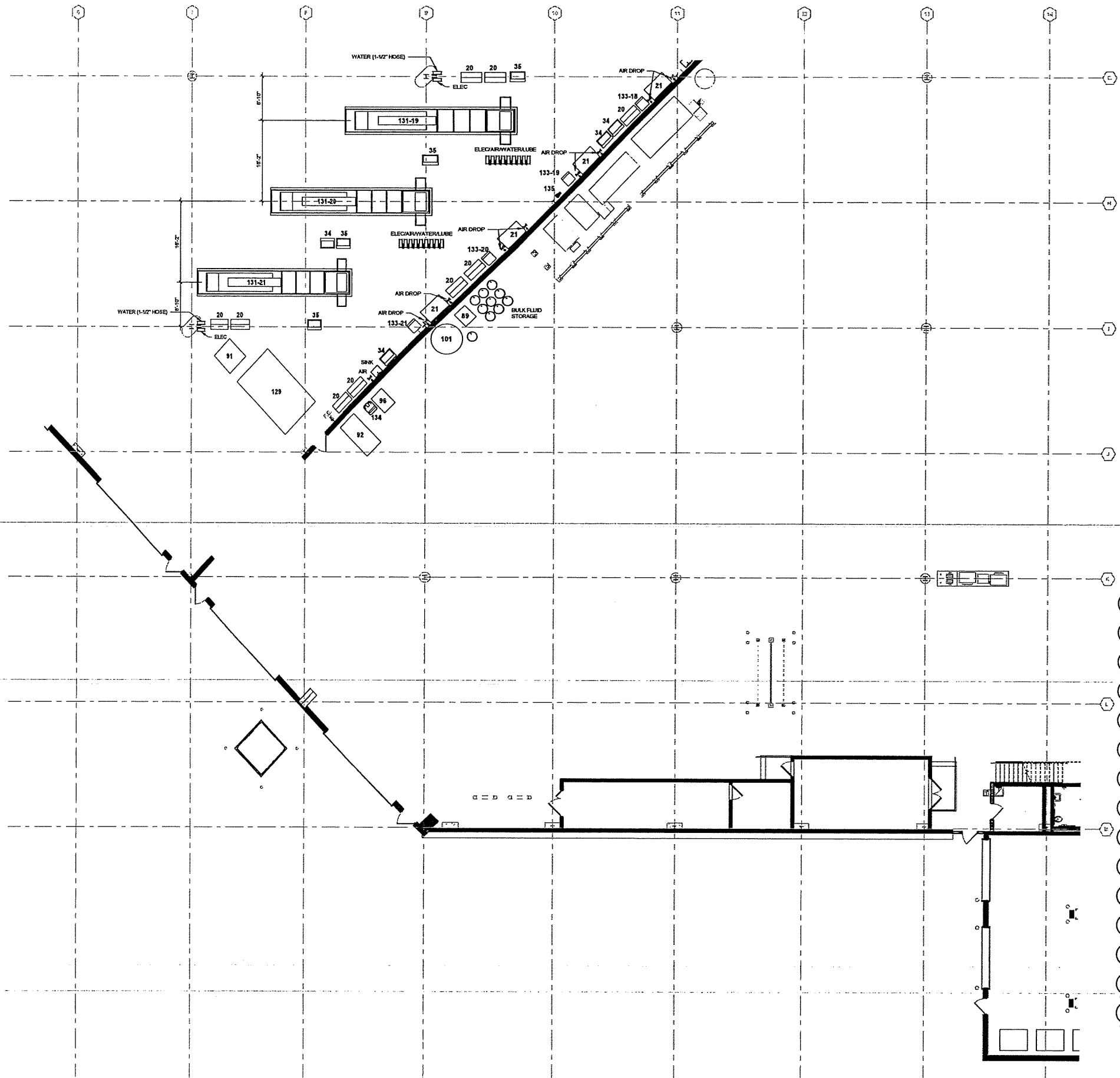
Mark	Type	Count	Owner Provided	Contractor Provided	GC Provided	GC Installed
2	Rim Clamp Tire Machine	1	X	X		
3	Desk 60"W x 30"D	3		X	X	
6	Tire Cage	1	X	X		
8	2-Tier Locker - 12"x15"x78"	6		X	X	
20	Tire Cabinet	30	X	X		
21	Work Bench 36"W x 34"D x 34"H	15		X	X	
34	SmartWasher SW-37	8		X	X	
38	Oil King 25 gal Used-Oil Receiver	11		X	X	
40	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1	X	X		
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
61	Pallet Storage Floor Space	1	X	X		
64	Used Oil Tank	1	X	X	X	
80	Bulk Fluid Storage Tank #2	1	X	X	X	
91	Dumping Hopper	1	X	X	X	
92	Scale	1	X	X	X	
96	Oil Filter Crusher	1	X	X	X	
101	Bulk Fluid Storage Tank #3	1	X	X	X	
108	Rack Shelving - 3D x 10W x 8H	3	X	X	X	
118	Rack Shelving - 3D x 10W x 8H	1	X	X	X	
119	Rack Shelving - 3D x 10W x 8H	2	X	X	X	
122	Tire Machine	1	X	X	X	
123	Flammable Tank Storage	1		X	X	X
127	Oil Press	1	X	X	X	
128	Horizontal Band Saw	1	X	X	X	
129	Tire Carousel	1		X	X	X
130	Parts Carousel	1		X	X	X
131-13	ECCO-40-10	1		X	X	
131-14	ECCO-40-10	1		X	X	
131-15	ECCO-40-10	1		X	X	
131-16	ECCO-40-10	1		X	X	
131-17	ECCO-40-10	1		X	X	
131-18	ECCO-40-10	1		X	X	
131-19	ECCO-40-10	1		X	X	
131-20	ECCO-40-10	1		X	X	
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133-17	ECCO-40 Control Console	1		X	X	
133-18	ECCO-40 Control Console	1		X	X	
133-19	ECCO-40 Control Console	1		X	X	
133-20	ECCO-40 Control Console	1		X	X	
133-21	ECCO-40 Control Console	1		X	X	
133-22	ECCO-50 Control Console	1		X	X	
134	Oil Filter Trash Receipts	1	X	X	X	
135	Waste Oil Pump	2		X	X	
A	Rack Shelving - 2D x 8W x 8H	6		X	X	
B	Rack Shelving - 2D x 8W x 8H	26		X	X	
C	Rack Shelving - 3D x 10W x 8H	5		X	X	



TRUE PLAN NORTH IS NORTH
1 1/8" First Floor Equipment Plan - Area A
1/8" = 1'-0"

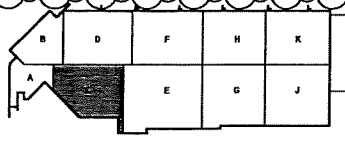
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ADDENDUM 2



EQUIPMENT SCHEDULE

Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Iron Clamp Tire Machine	1	X	X		
3	Desk 67 W x 30 D	3		X	X	
6	Tire Cage	1	X	X		
9	2 Tier Locker - 12 x 15 x 7 1/2"	6		X	X	
20	Tool Cabinet	30	X	X		
21	Work Bench 9'-2 1/2" W x 3'-0" D x 3'-0" H	18		X	X	
34	Small Heater SW-37	9		X	X	
35	Oil King 25 gal Used Oil Receiver	11		X	X	
45	Tool Cabinet	1	X	X		
97	Battery Charging Bench	1	X	X		
58	Battery Charging Bench	1	X	X		
80	Pallet Storage Floor Space	1	X	X		
83	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X	X		X
85	Bulk Fluid Storage Tank #2	1	X	X		X
91	Dumping Hopper	1	X	X		X
92	Baler	1	X	X		X
96	Oil Filter Canister	1	X	X		X
101	Bulk Fluid Storage Tank #3	1	X	X		X
106	Rack Shelving - 3D x 10W x 8H	3	X	X		X
118	Rack Shelving - 3D x 10W x 8H	1	X	X		X
119	Rack Shelving - 3D x 10W x 8H	2	X	X		X
122	Tire Machine	1	X	X		X
123	Flammable Tank Storage	1	X	X	X	X
127	Drill Press	1	X	X		X
128	Horizontal Band Saw	1	X	X		X
129	Tire Carousel	1		X	X	X
130	Parts Carousel	1		X	X	X
131-13	ECCO-40-10	1		X	X	X
131-14	ECCO-40-10	1		X	X	X
131-15	ECCO-40-10	1		X	X	X
131-16	ECCO-40-10	1		X	X	X
131-17	ECCO-40-10	1		X	X	X
131-18	ECCO-40-10	1		X	X	X
131-19	ECCO-40-10	1		X	X	X
131-20	ECCO-40-10	1		X	X	X
131-21	ECCO-40-10	1		X	X	X
132-22	ECCO-40-17	1		X	X	X
133-13	ECCO-40 Control Console	1		X	X	X
133-14	ECCO-40 Control Console	1		X	X	X
133-15	ECCO-40 Control Console	1		X	X	X
133-16	ECCO-40 Control Console	1		X	X	X
133-17	ECCO-40 Control Console	1		X	X	X
133-18	ECCO-40 Control Console	1		X	X	X
133-19	ECCO-40 Control Console	1		X	X	X
133-20	ECCO-40 Control Console	1		X	X	X
133-21	ECCO-40 Control Console	1		X	X	X
133-22	ECCO-40 Control Console	1		X	X	X
134	Oil Filter Trash Receptacle	1	X	X	X	X
135	Waste Oil Pump	2		X	X	X
A	Rack Shelving - 2D x 6W x 8H	6				
B	Rack Shelving - 2D x 6W x 8H	26				
C	Rack Shelving - 3D x 10W x 8H	5				



TRUE PLAN NORTH NORTH
 1/8" First Floor Equipment Plan - Area C
 1/8" = 1'-0"

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Dering Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com

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CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/02/21 BID SET
 B 05/13/21 ADDENDUM #2

CONTRACT NO: 8591
 DRAWING NO: 4003500-100956.DWG
 DATE: APRIL 8, 2021
 DESIGNED BY: JFW
 DRAWN BY: RES
 CHECKED BY: Checker
 50 NOT SCALE DRAWING

SHEET CONTENTS
 FIRST FLOOR PLAN - AREA C
 SHEET NO: Q-101C

ADDENDUM 2

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

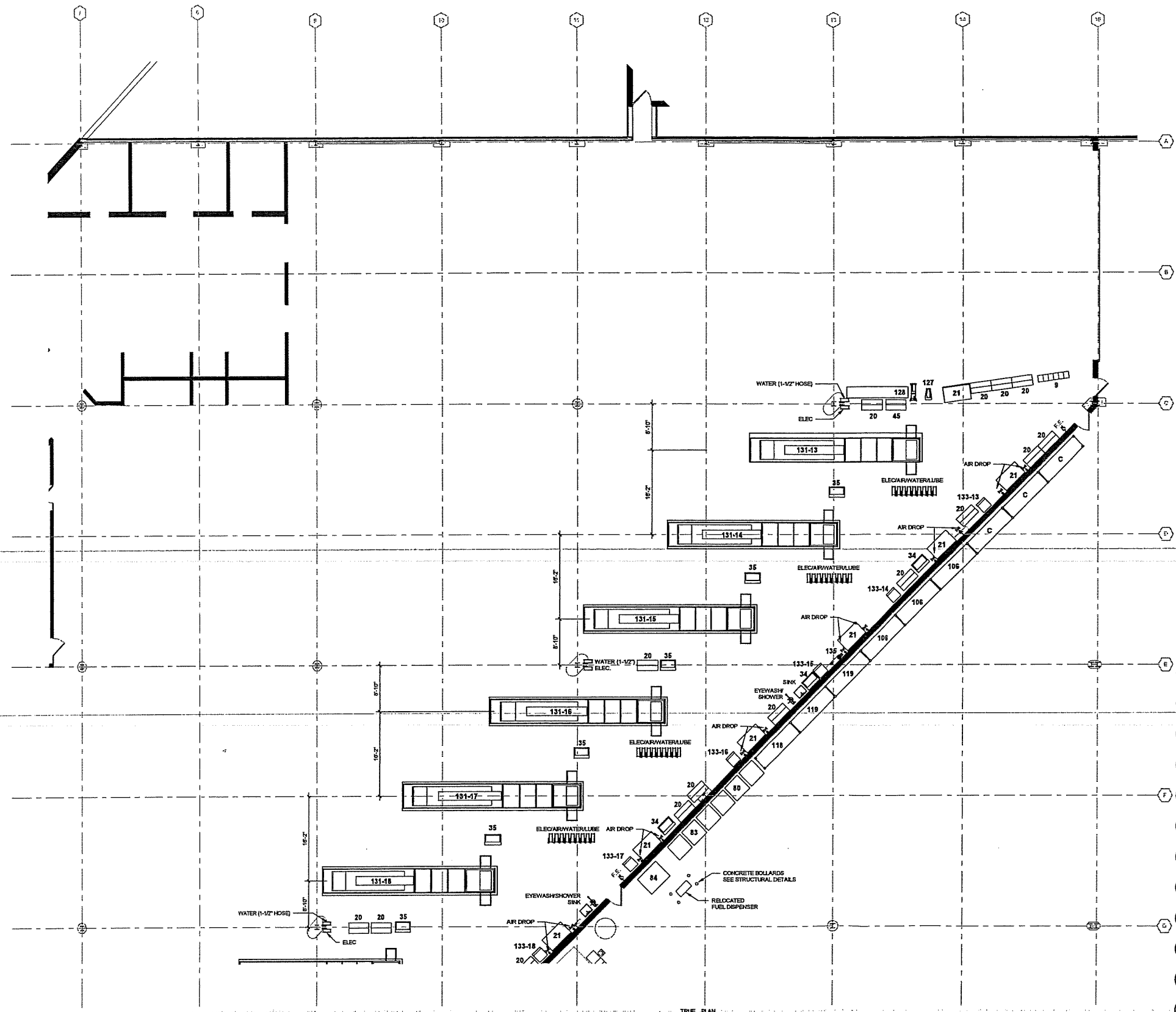
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ISSUE DATE: 05/13/21
ISSUE DESCRIPTION: ADDENDUM #2

CONTRACT NO: 8081
PROJECT NO: 4503500-10086.03
DATE: APRIL 8, 2021
DESIGNED BY: JPV
DRAWN BY: RES
CHECKED BY: Checker
DO NOT SCALE DRAWINGS

SHEET CONTAINS
FIRST FLOOR PLAN -
AREA D

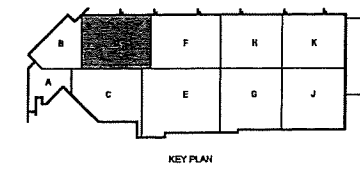
SHEET NO:
Q-101D

ADDENDUM 2



TRUE PLAN NORTH NORTH
1/8" First Floor Equipment Plan - Area D
1/8" = 1'-0"

EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
5	Risk Check Fire Machine	1	X	X		
1	Desk 60" W x 30" D	3		X		
6	Tire Cage	1	X	X		
7	2-Tier Locker - 12"x15"x7"	8		X		
20	Tool Cabinet	30	X	X		
21	Work Bench 5'-0" W x 3'-0" D x 3'-0" H	18		X		
34	SmartWasher SW-37	6		X		
35	Oil King 25 gal Used-Oil Receiver	11		X		
45	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1	X	X		
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X	X		X
89	Bulk Fluid Storage Tank #2	1	X	X		X
91	Dumping Hopper	1	X	X		X
92	Baler	1	X	X		X
96	Oil Filter Crusher	1	X	X		X
101	Bulk Fluid Storage Tank #3	1	X	X		X
108	Rack Shelving - 3D x 10' W x 8' H	3	X	X		X
118	Rack Shelving - 3D x 10' W x 8' H	1	X	X		X
119	Rack Shelving - 3D x 10' W x 8' H	2	X	X		X
122	Tire Machine	1	X	X		X
123	Flammable Tank Storage	1	X	X		X
127	Oil Press	1	X	X		X
128	Horizontal Band Saw	1	X	X		X
129	Tire Carousel	1		X	X	
130	Park Camcorder	1		X	X	
131-13	ECO-40-10	1		X	X	
131-14	ECO-40-10	1		X	X	
131-15	ECO-40-10	1		X	X	
131-16	ECO-40-10	1		X	X	
131-17	ECO-40-10	1		X	X	
131-18	ECO-40-10	1		X	X	
131-19	ECO-40-10	1		X	X	
131-20	ECO-40-10	1		X	X	
131-21	ECO-40-10	1		X	X	
131-22	ECO-40-10	1		X	X	
132-22	ECO-40-17	1		X	X	
133-13	ECO-40 Control Console	1		X	X	
133-14	ECO-40 Control Console	1		X	X	
133-15	ECO-40 Control Console	1		X	X	
133-16	ECO-40 Control Console	1		X	X	
133-17	ECO-40 Control Console	1		X	X	
133-18	ECO-40 Control Console	1		X	X	
133-19	ECO-40 Control Console	1		X	X	
133-20	ECO-40 Control Console	1		X	X	
133-21	ECO-40 Control Console	1		X	X	
133-22	ECO-40 Control Console	1		X	X	
134	Oil Filter Trash Receptacle	1	X	X		X
135	Waste Oil Pump	2		X	X	
A	Rack Shelving - 2D x 8' W x 8' H	6		X	X	
B	Rack Shelving - 2D x 8' W x 8' H	26		X	X	
C	Rack Shelving - 3D x 10' W x 8' H	5		X	X	



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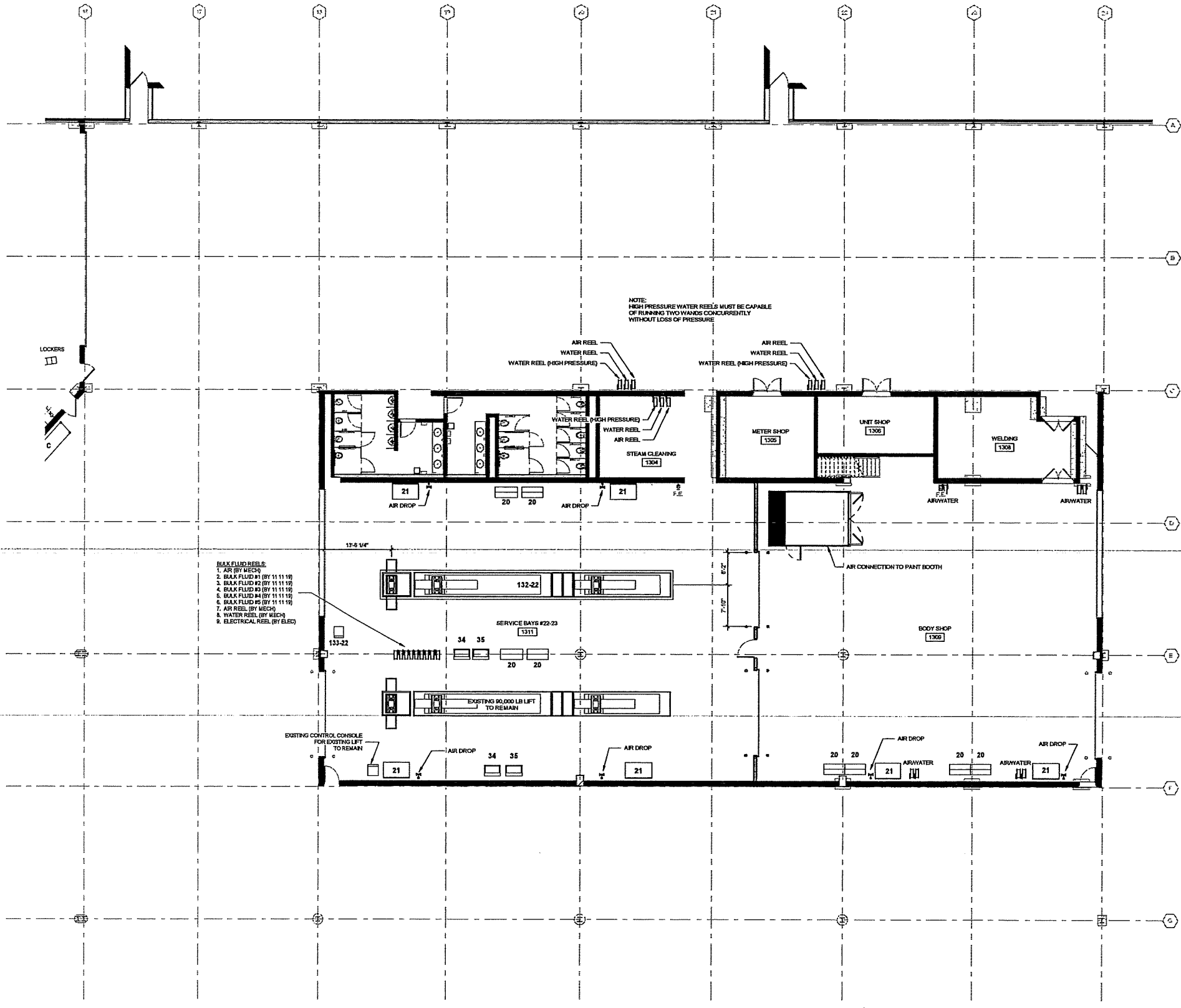
**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/06/21 BID SET
05/13/21 ADDENDUM #2

CONTRACT #1: 2021
DRAWING #1: 2021-10-000-10-000-00
DATE: APRIL 8, 2021
DESIGNED BY: JFW
DRAWN BY: RES
CHECKED BY: Checker
2021-10-000-10-000-00

SHEET TITLE:
FIRST FLOOR PLAN - AREA F
SHEET NO.:
Q-101F

ADDENDUM #2

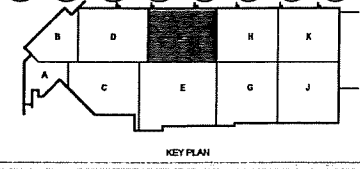


- BULK FLUID REELS:**
1. AIR (BY MECH)
 2. BULK FLUID #1 (BY 11 11 19)
 3. BULK FLUID #2 (BY 11 11 19)
 4. BULK FLUID #3 (BY 11 11 19)
 5. BULK FLUID #4 (BY 11 11 19)
 6. BULK FLUID #5 (BY 11 11 19)
 7. AIR REEL (BY MECH)
 8. WATER REEL (BY MECH)
 9. ELECTRICAL REEL (BY ELEC)

NOTE:
HIGH PRESSURE WATER REELS MUST BE CAPABLE OF RUNNING TWO WANDS CONCURRENTLY WITHOUT LOSS OF PRESSURE

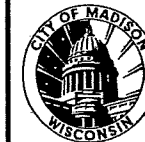
EQUIPMENT SCHEDULE							
Mark	Type	Count	Owner Provided	GC Installed	GC Provided	GC Installed	GC Provided
2	Rim Clamp Tire Machine	1	X	X			
3	Deck 60"W x 30"D	3					
4	Tire Cage	1	X	X			
5	2-Tier Locker - 12"x15"x18"	6					
20	Tool Cabinet	30	X	X			
21	Work Bench 5'-0"W x 3'-0"D x 3'-0"H	16					
34	SmartWasher SW-37	9					
35	Oil King 25 gal Used Oil Reserver	11					
46	Tool Cabinet	1	X	X			
57	Battery Charging Bench	1					
58	Battery Charging Bench	1	X	X			
60	Paint Storage Floor Space	1	X	X			
63	Paint Storage Floor Space	1	X	X			
64	Used Oil Tank	1	X	X			
69	Bulk Fluid Storage Tank #2	1	X	X			
91	Dumping Hopper	1	X	X			
92	Shoe	1	X	X			
96	Oil Filter Changer	1	X	X			
101	Bulk Fluid Storage Tank #3	1	X	X			
106	Rack Shelving - 3D x 10W x 8H	3	X	X			
116	Rack Shelving - 2D x 10W x 8H	1	X	X			
119	Rack Shelving - 3D x 10W x 8H	2	X	X			
122	Tire Machine	1	X	X			
123	Flammable Tank Storage	1			X	X	
127	Oil Press	1	X	X			
128	Horizontal Band Saw	1	X	X			
129	Tire Carcass	1			X	X	
130	Parts Cabinet	1			X	X	
131-13	ECCO-60-10	1			X	X	
131-14	ECCO-60-10	1			X	X	
131-15	ECCO-60-10	1			X	X	
131-16	ECCO-60-10	1			X	X	
131-17	ECCO-60-10	1			X	X	
131-18	ECCO-60-10	1			X	X	
131-19	ECCO-60-10	1			X	X	
131-20	ECCO-60-10	1			X	X	
131-21	ECCO-60-10	1			X	X	
132-22	ECCO-60-10	1			X	X	
133-13	ECCO-60 Control Console	1			X	X	
133-14	ECCO-60 Control Console	1			X	X	
133-15	ECCO-60 Control Console	1			X	X	
133-16	ECCO-60 Control Console	1			X	X	
133-17	ECCO-60 Control Console	1			X	X	
133-18	ECCO-60 Control Console	1			X	X	
133-19	ECCO-60 Control Console	1			X	X	
133-20	ECCO-60 Control Console	1			X	X	
133-21	ECCO-60 Control Console	1			X	X	
133-22	ECCO-60 Control Console	1			X	X	
134	Oil Filter Trash Receptacle	1	X	X			
135	Waste Oil Pump	2			X	X	
A	Rack Shelving - 2D x 6W x 8H	6					
B	Rack Shelving - 2D x 8W x 8H	26					
C	Rack Shelving - 3D x 10W x 8H	5					

TRUE PLAN NORTH NORTH
1 1/8" First Floor Equipment Plan - Area F
1/8" = 1'-0"



11/11/2021 12:55:59 AM C:\Users\mhall\OneDrive\Documents\10088-10-000-10-000-00\10-000-10-000-00.dwg

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1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

NO. 040621 BID SET
B 05/13/21 ADDENDUM #2

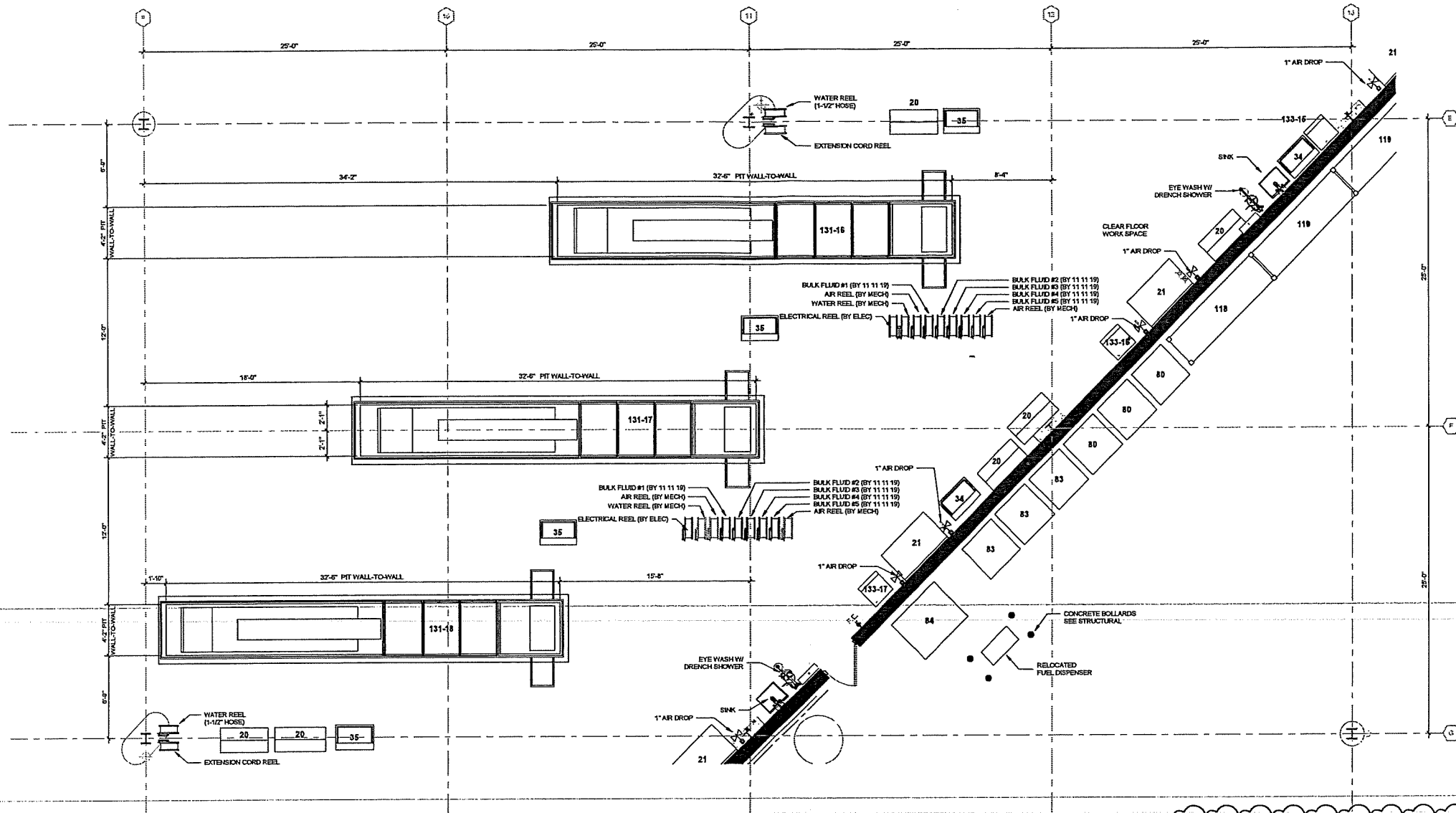
CONTRACT NO. 8581
DRAWING NO. 4503500-100896.03
DATE: APRIL 8, 2021
DESIGNED BY: JFW
DRAWN BY: RES
CHECKED BY: Checker
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PROJECT LOCATION:
FIRST FLOOR PLAN -
ENLARGED REPAIR
BAY LAYOUT

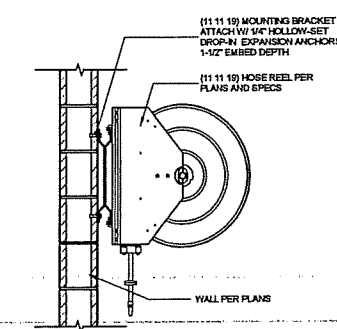
NO. Q-401

Q-401

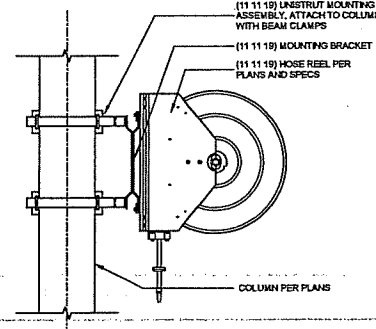
ADDENDUM 2



1 First Floor Equipment Plan - Typ Repair Bay Layout
1/4" = 1'-0"



2 Hose Reel Mounting @ CMU Wall
1/4" = 1'-0"



3 Hose Reel Mounting @ Columns
1/4" = 1'-0"

EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rim Clamp Tire Machine	1	X		X	
3	Desk 60"W x 30"D	3				
6	Tire Cap	1	X		X	
9	2-Tier Locker - 12"x15"x7"	6				
20	Tool Cabinet	30	X		X	
21	Work Bench 9'-0"W x 3'-0"D x 3'-0"H	16				
34	Small Washer 5/8"x21"	9				
35	Oil King 25 gal Used-Oil Receiver	11				
45	Tool Cabinet	1	X		X	
57	Battery Charging Bench	1	X		X	
58	Battery Charging Bench	1	X		X	
80	Pallet Storage Floor Space	1	X		X	
83	Pallet Storage Floor Space	1	X		X	
84	Used Oil Tank	1	X		X	
85	Bulk Fluid Storage Tank #2	1	X		X	
81	Dumping Hopper	1	X		X	
92	Blower	1	X		X	
95	Oil Filter Changer	1	X		X	
101	Bulk Fluid Storage Tank #3	1	X		X	
106	Rack Shelving - 3D x 10W x 8H	3	X		X	
118	Rack Shelving - 3D x 10W x 8H	1	X		X	
119	Rack Shelving - 3D x 10W x 8H	2	X		X	
122	Tire Machine	1	X		X	
123	Flammable Tank Storage	1			X	X
127	Oil Press	1	X		X	
128	Horizontal Band Saw	1	X		X	
129	Tire Carousel	1			X	X
130	Parts Carousel	1			X	X
131-13	ECCO-40	1			X	X
131-14	ECCO-40	1			X	X
131-15	ECCO-40	1			X	X
131-16	ECCO-40	1			X	X
131-17	ECCO-40	1			X	X
131-18	ECCO-40	1			X	X
131-19	ECCO-40	1			X	X
131-20	ECCO-40	1			X	X
131-21	ECCO-40	1			X	X
132-22	ECCO-40-17	1			X	X
133-13	ECCO-40 Control Console	1			X	X
133-14	ECCO-40 Control Console	1			X	X
133-15	ECCO-40 Control Console	1			X	X
133-16	ECCO-40 Control Console	1			X	X
133-17	ECCO-40 Control Console	1			X	X
133-18	ECCO-40 Control Console	1			X	X
133-19	ECCO-40 Control Console	1			X	X
133-20	ECCO-40 Control Console	1			X	X
133-21	ECCO-40 Control Console	1			X	X
133-22	ECCO-40 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X		X	X
136	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 6W x 8H	6				
B	Rack Shelving - 2D x 6W x 8H	26				
C	Rack Shelving - 3D x 10W x 8H	5				

5/11/2021 12:28:48 AM C:\Users\mead\OneDrive\Documents\100896.03-Q-401-Arns_mead@meadhunt.com.rvt

APPENDUM 2

GENERAL NOTES

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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metro transit

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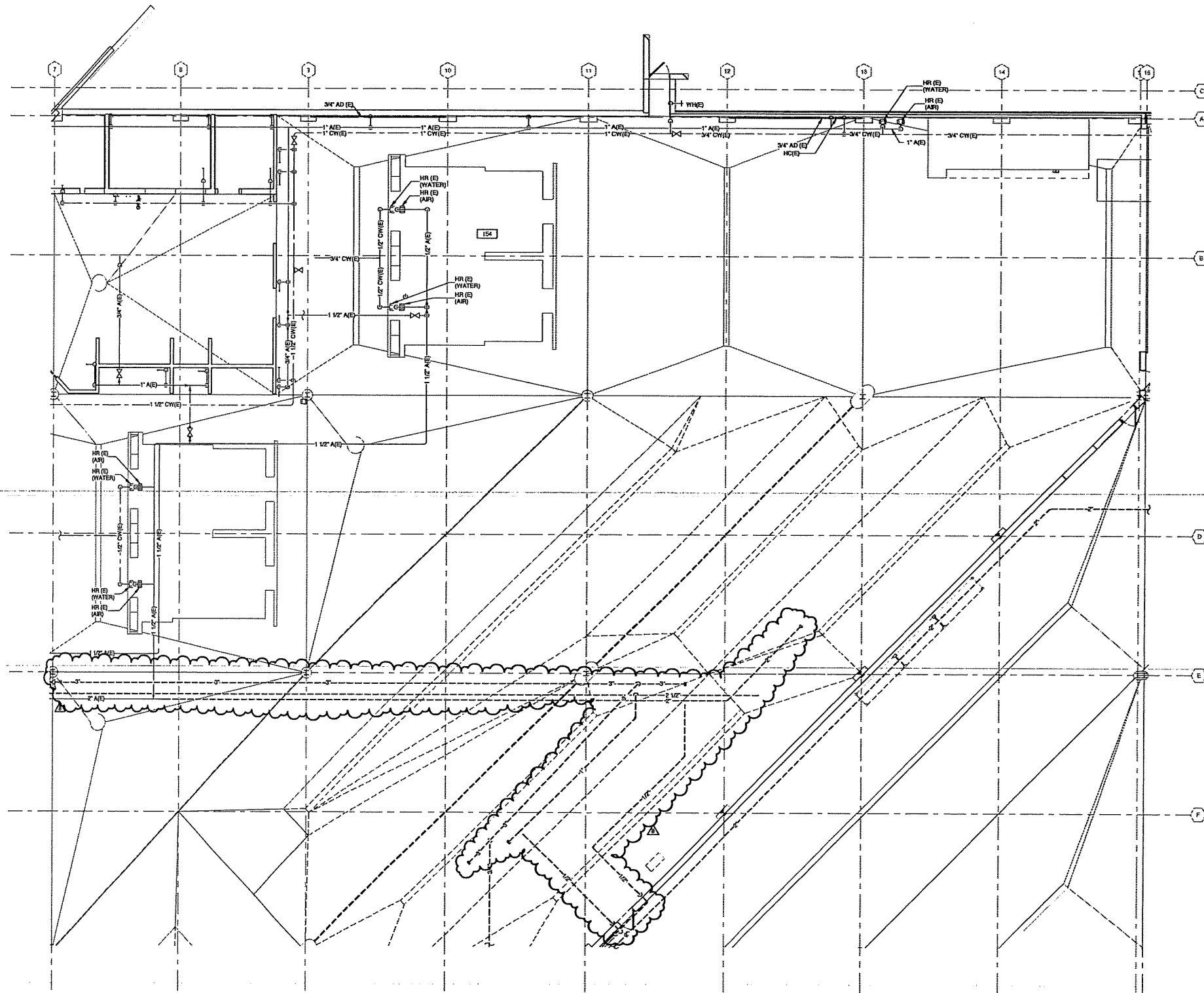
04/08/21 BID SET
B 05/13/21 ADDENDUM #2

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PLAN NO.: 4550500-19086103
DATE: April 8, 2021
DESIGNED BY: JET
DRAWN BY: JET
CHECKED BY: RMM
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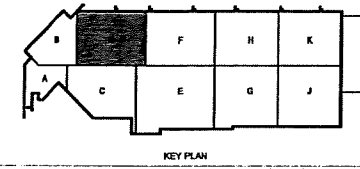
SHEET CONTENTS
FIRST FLOOR
SUPPLY DEMOLITION
PLAN - AREA D

SHEET NO.:

PD131D

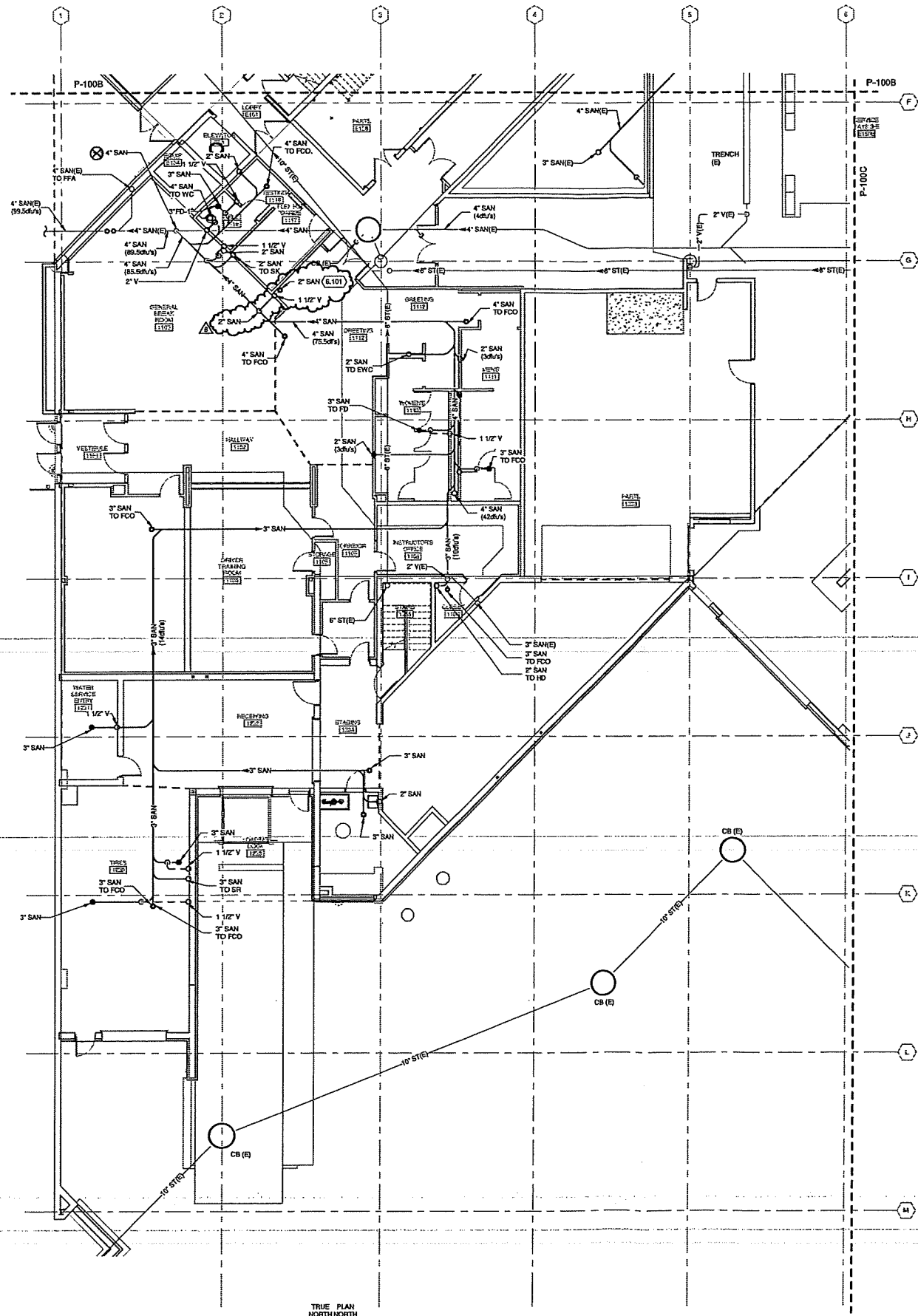


TRUE PLAN
NORTH NORTH
1 FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA D
1/8" = 1'-0"

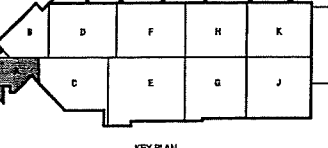


KEY PLAN

04/08/21 2:52:57 PM C:\Users\Lowell.LOSBROOK\Desktop\Area_D.mxd Mead & Hunt, Inc.



TRUE PLAN NORTH NORTH
1 UNDERGROUND DRAIN AND VENT PLAN - AREA A
 1/8" = 1'-0"



KEY PLAN

- GENERAL NOTES**
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DW 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING SEQUENCING AND SITE ACCESS.
 3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

04/06/21 BID SET
 B 05/13/21 ADDENDUM #2

CONTRACT NO. 181
 PROJECT NO. 450350-190866.03
 DATE: April 8, 2021
 DESIGNED BY: JET
 DRAWN BY: JET
 CHECKED BY: RMB
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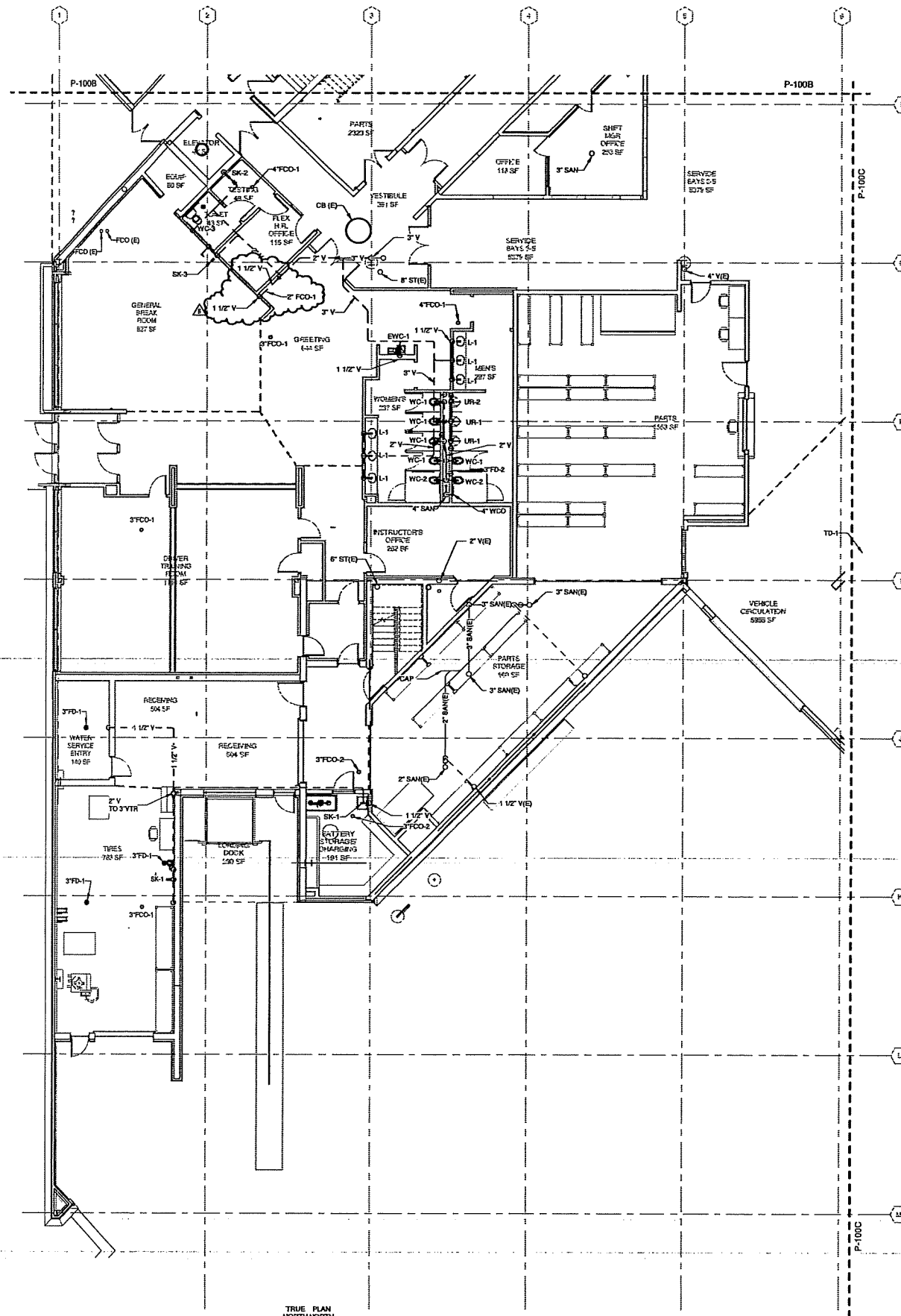
SHEET OWNERS:
 UNDERGROUND
 DRAIN AND VENT
 PLAN - AREA A

SHEET NO.:

P-100A

Addendum 2

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TRUE PLAN NORTH
1 FIRST FLOOR DRAIN AND VENT PLAN - AREA B
 1/8" = 1'-0"

- GENERAL NOTES**
1. REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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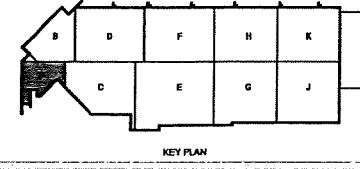


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NO. 040821 BID SET
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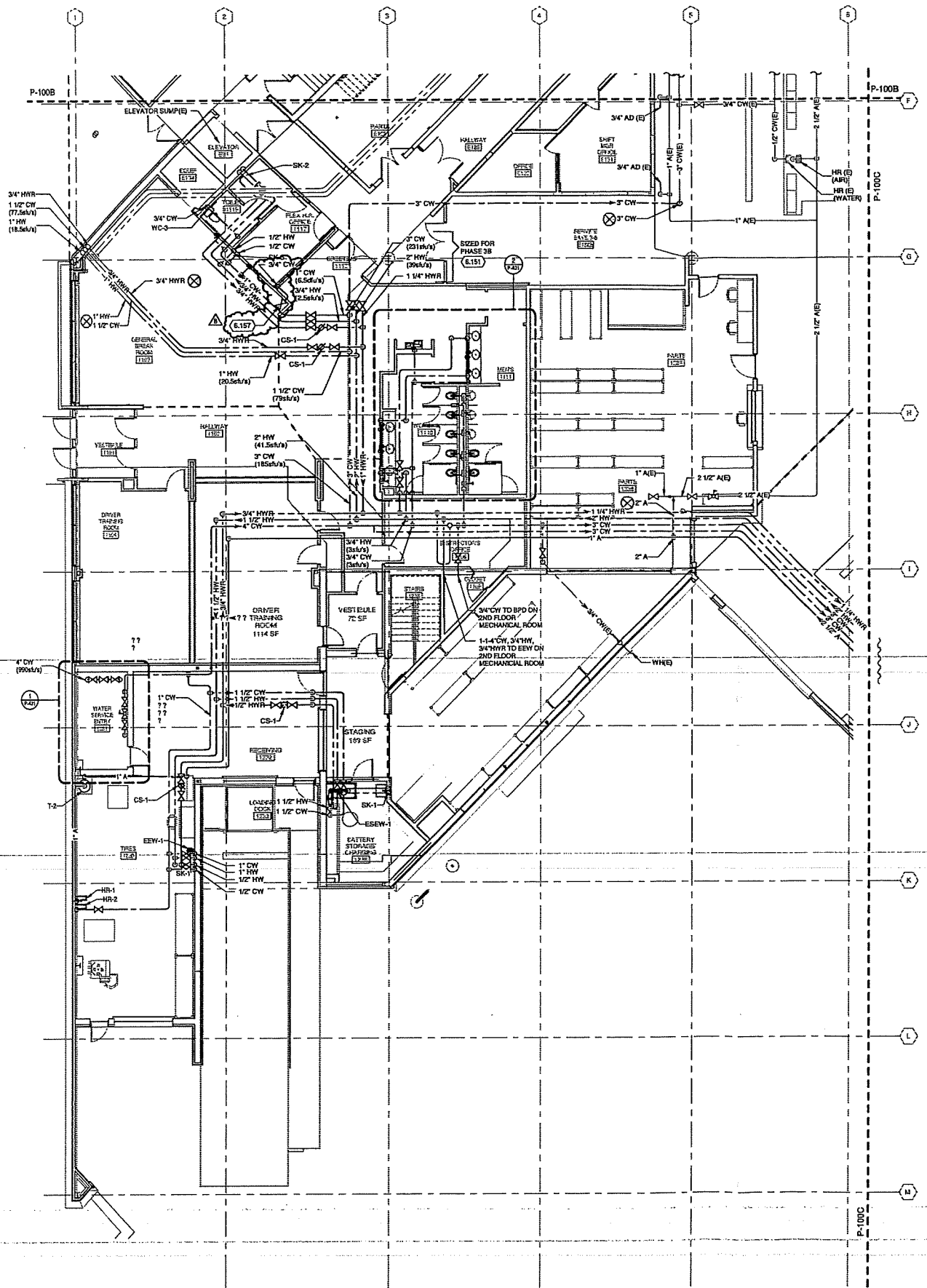
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 DRAWN BY: JET
 CHECKED BY: ITMM
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 SHEET CONTAINS
 FIRST FLOOR DRAIN
 AND VENT PLAN -
 AREA A

SHEET NO.
P-101A



ADDENDUM 2

01/12/2021 11:58:25 AM C:\P\1\1\Drawings\040821 BID SET\Area_B\Area_B.dwg Mead & Hunt, Inc.



TRUE PLAN NORTH NORTH
 1 FIRST FLOOR SUPPLY PIPING PLAN - AREA B
 1/8" = 1'-0"

- GENERAL NOTES**
1. REFERENCE G-200 THROUGH G-200 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE O SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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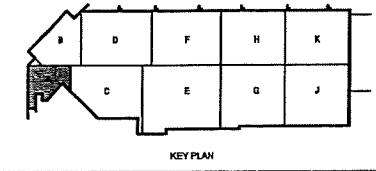
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CONTRACT NO. 040821
 DRAWING NO. 450000-1000000
 DATE: April 8, 2021
 DESIGNED BY: JET
 DRAWN BY: JET
 CHECKED BY: RMM

EDUCATION SCALE DRAWINGS
 SHEET NUMBER
 FIRST FLOOR
 SUPPLY PLAN - AREA A

SHEET NO.:

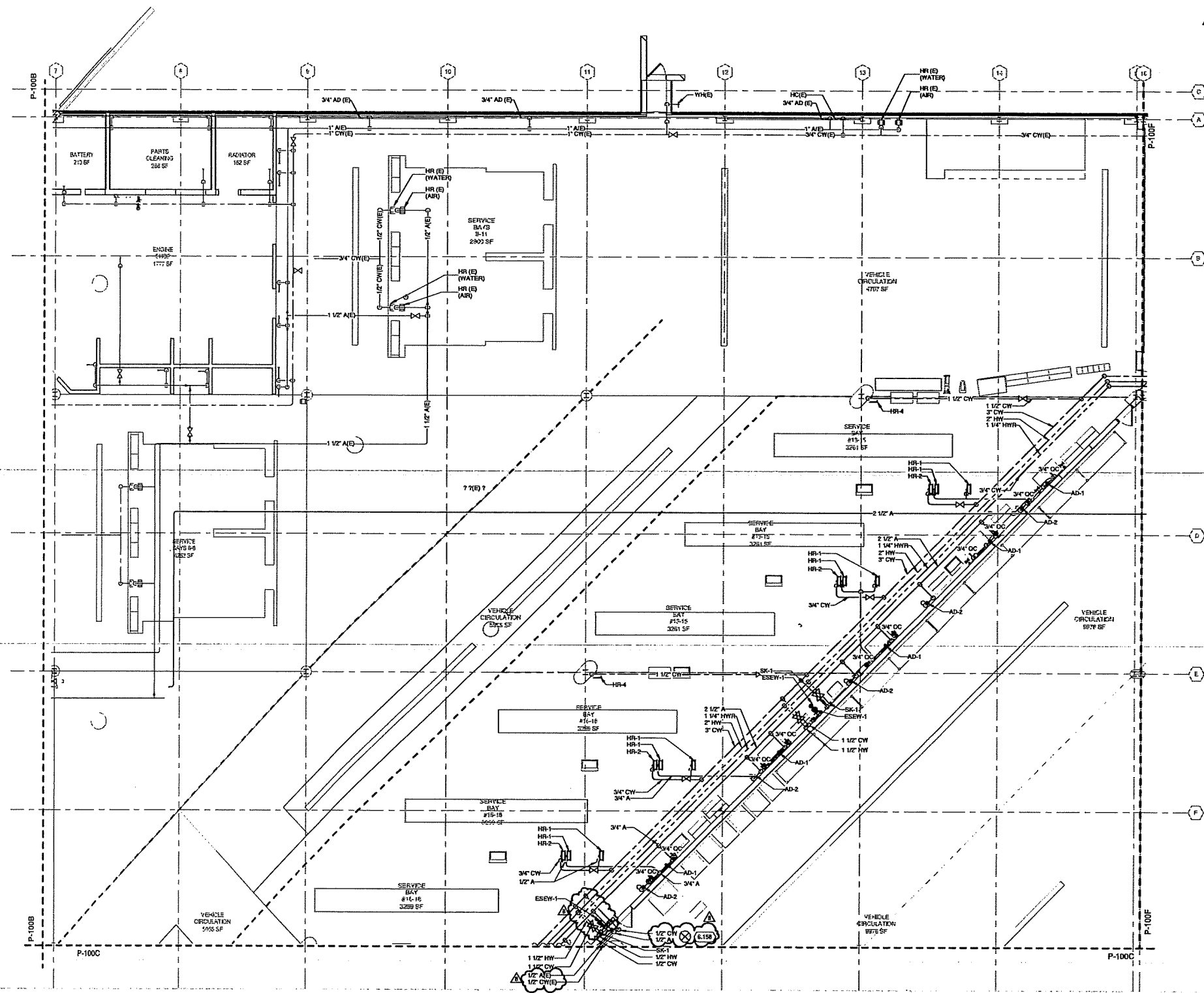
P-131A



KEY PLAN

ADDENDUM 2

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TRUE PLAN NORTH NORTH
1 FIRST FLOOR SUPPLY PIPING PLAN - AREA D
 1/8" = 1'-0"

- GENERAL NOTES**
- REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DM 2 REQUIREMENTS.
 - REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 - REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- KEYED NOTES**
- 6.15B CONNECT EXISTING SUPPLY PIPE AND COMPRESSED AIR PIPE TO NEW SERVICES.

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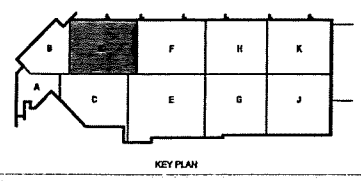
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 MADISON, WI 53703

PROJ: 04/08/21 BID SET
 B: 05/13/21 ADDENDUM #2

CONTRACT NO.: 402000-190806.03
 DATE: April 8, 2021
 DESIGNED BY: JET
 DRAWN BY: JET
 CHECKED BY: FMM

SHEET NUMBER: FIRST FLOOR SUPPLY PLAN - AREA D

SHEET NO.: P-131D



Addendum 2

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ADDENDUM 2

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Madison, WI 53752
phone: 608-273-6380
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GENERAL NOTES

1. REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR FINISHS, AND CLASS 1 DW 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

FIRST FLOOR - AREA F - ALTERNATE BID #1

1. SEE SPECIFICATION 01200 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

KEYED NOTES

- 6.154 PROVIDE REMOTE HOT/COLD CONTROL AT EACH HPW HOSE REEL.
- 6.155 COORDINATE WITH OWNER THE LOCATION OF THE SOAP DISPENSING CONTAINER.

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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

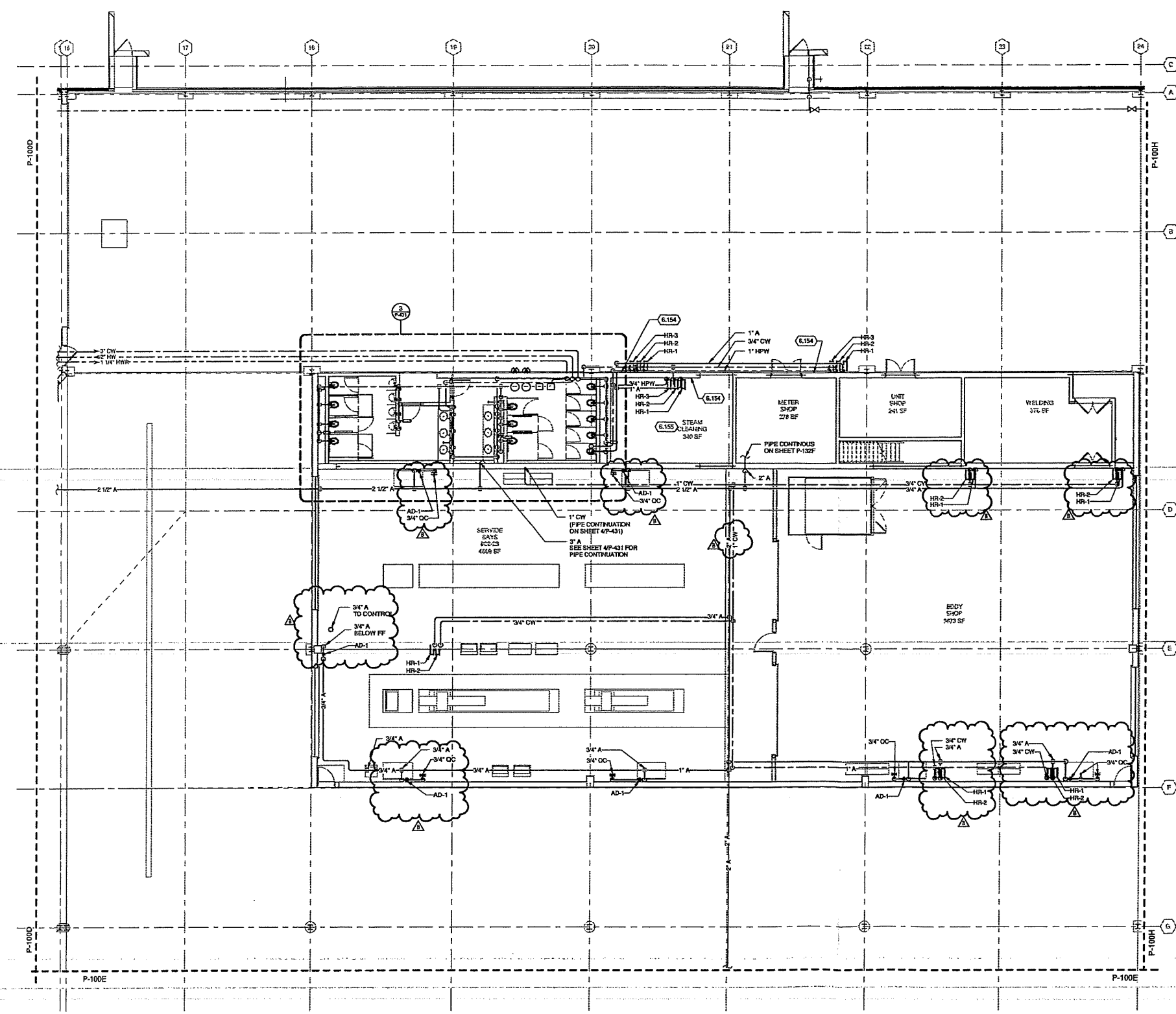
8000
04/08/21 BID SET
B 05/13/21 ADDENDUM #2

CONTRACT NO: 801
MAP NO.: 4503500-180856.03
DATE: April 8, 2021
DESIGNED BY: JET
DRAWN BY: JET
CHECKED BY: RMM
DO NOT SCALE DRAWINGS

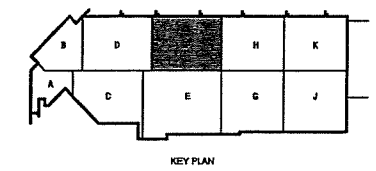
SHEET CONTAINS
FIRST FLOOR
SUPPLY PLAN - AREA
F

SHEET NO:

P-131F



TRUE PLAN
NORTH NORTH
1 FIRST FLOOR SUPPLY PIPING PLAN - AREA F
1/8" = 1'-0"



KEY PLAN

04/11/2021 10:57:24 AM C:\new1\locat1101818103\F-131P_Area_F.mxd

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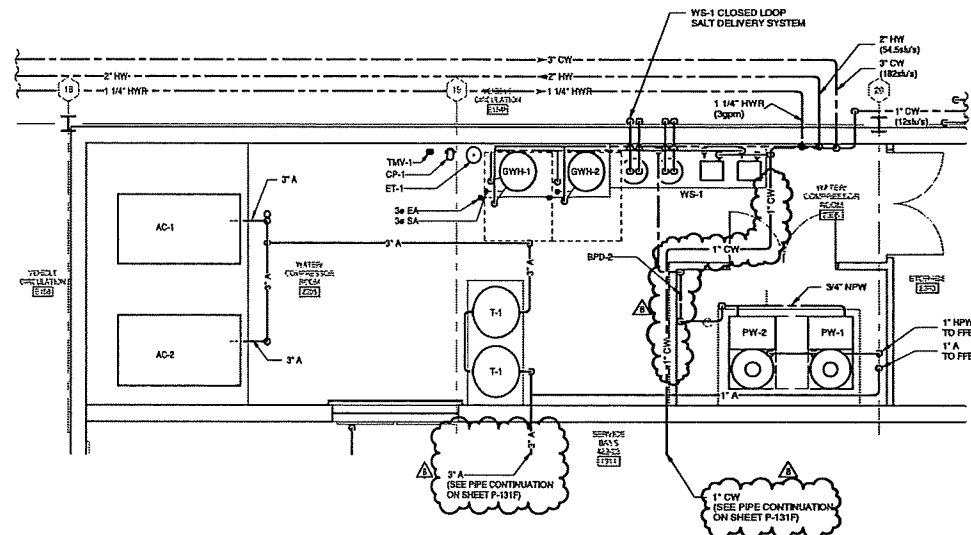


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1101 EAST WASHINGTON AVE.
MADISON, WI 53703

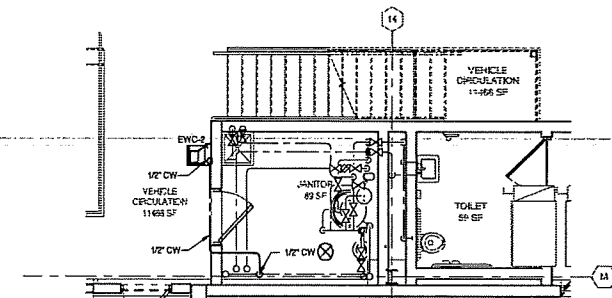
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B 051321 ADDENDUM #2

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PROJECT NO. 433000-100066.03
DATE: April 8, 2021
DESIGNED BY: JET
DRAWN BY: JET
CHECKED BY: FMM
SCALE: AS SHOWN
SHEET CONTENTS:
ENLARGED PLANS
SUPPLY PLUMBING

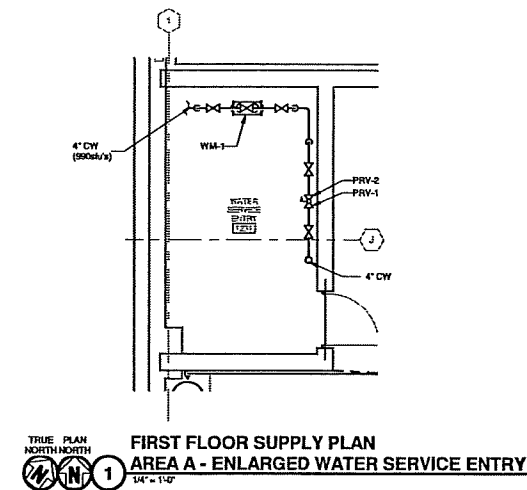
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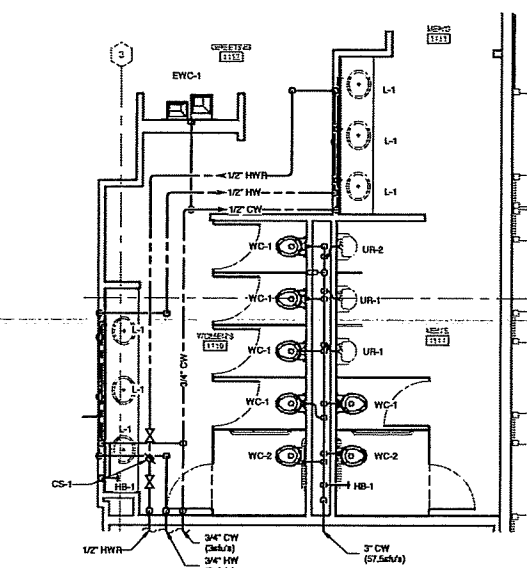
TRUE PLAN NORTH NORTH
4 SECOND FLOOR DRAIN AND VENT PLAN
AREA F - ENLARGED WATER COMPRESSOR ROOM
1/4" = 1'-0"



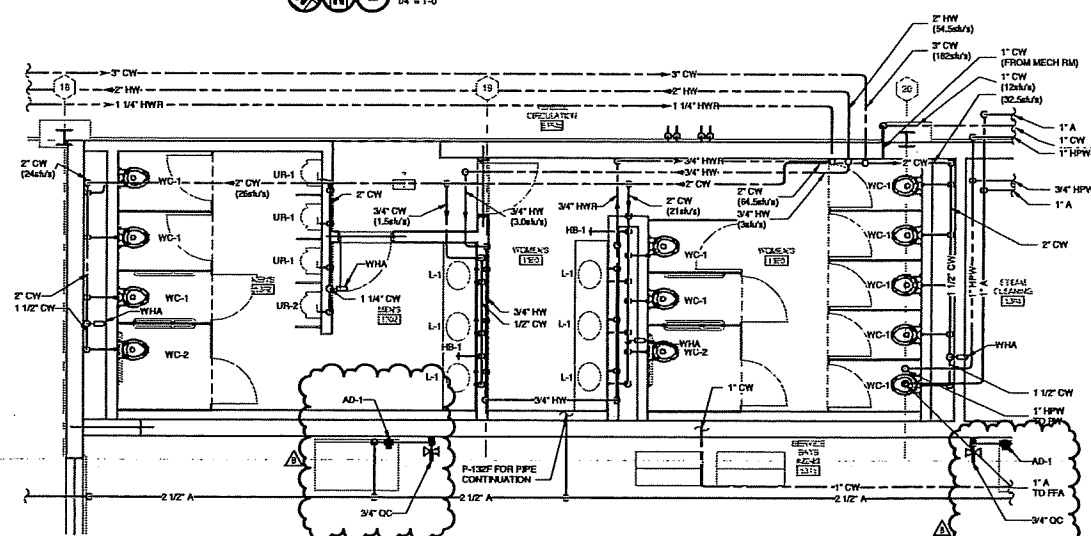
TRUE PLAN NORTH NORTH
5 ABOVEGROUND SUPPLY PLAN
AREA C - ENLARGED EWC
1/4" = 1'-0"



TRUE PLAN NORTH NORTH
1 FIRST FLOOR SUPPLY PLAN
AREA A - ENLARGED WATER SERVICE ENTRY
1/4" = 1'-0"



TRUE PLAN NORTH NORTH
2 FIRST FLOOR SUPPLY PLAN
AREA A - ENLARGED BATHROOM
1/4" = 1'-0"



FIRST FLOOR - AREA F - ALTERNATE BID #1

1. SEE SPECIFICATION 01200 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM, LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

TRUE PLAN NORTH NORTH
3 FIRST FLOOR SUPPLY PLAN
AREA F - ENLARGED BATHROOM
1/4" = 1'-0"

ADDENDUM 2

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**CITY OF MADISON
METRO TRANSIT - PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1 SOUTH INGERSOLL ST.
MADISON, WI 53703**

04/06/21 BID SET

CONTRACT NO: 8981
M&H NO: 4502500-190895L03
DATE: APRIL 8, 2021
DESIGNED BY: ACA
DRAWN BY: KSD
CHECKED BY: ACA
CITY OF MADISON

OVERALL SITE IMPROVEMENT PLAN

SHEET NO.

C-101

ORIGINAL

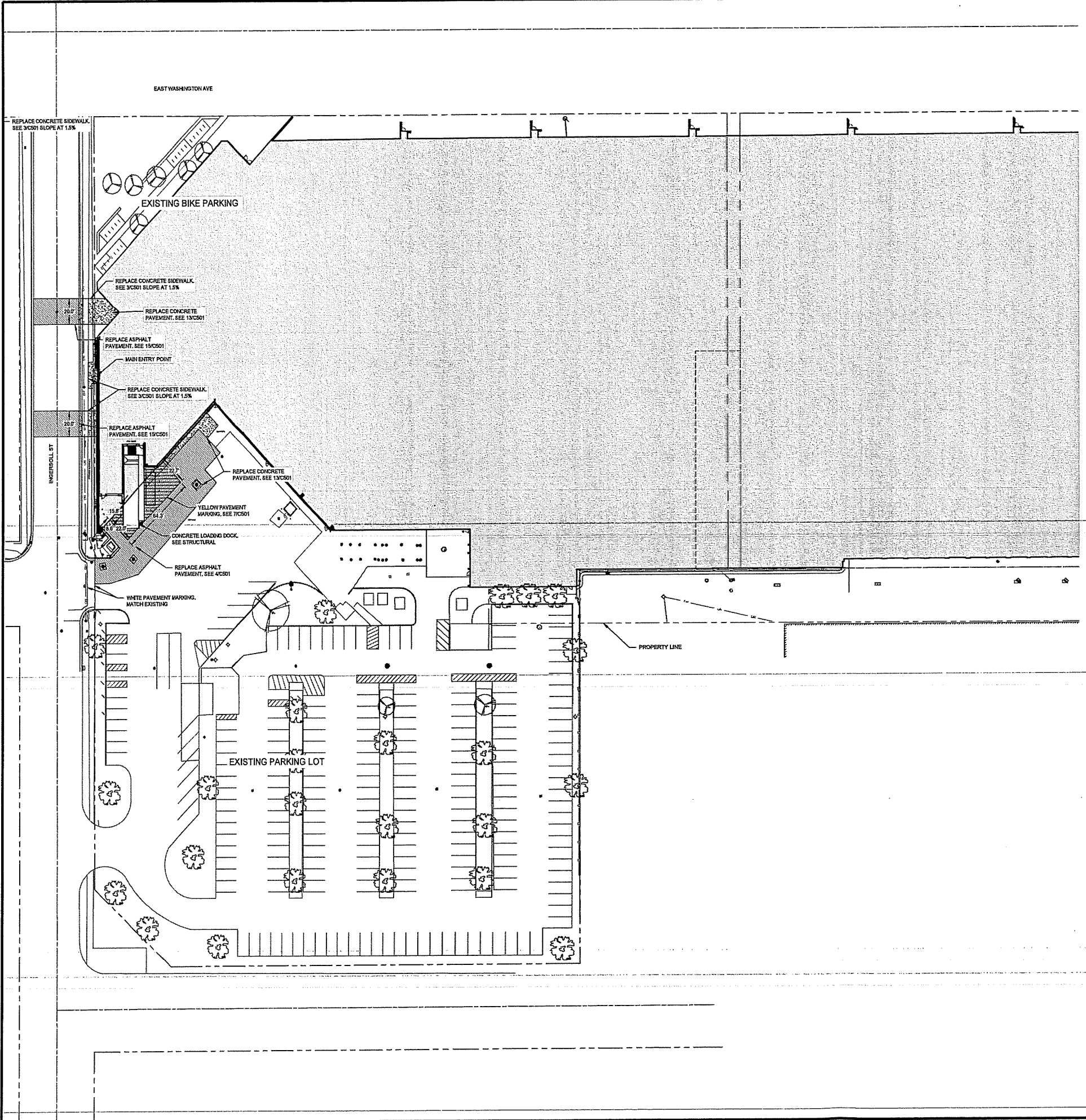
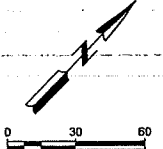
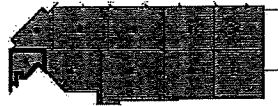
NOTES:

- 1) REFERENCE C-020 THROUGH C-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2) REFERENCE SHEET C-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3) REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

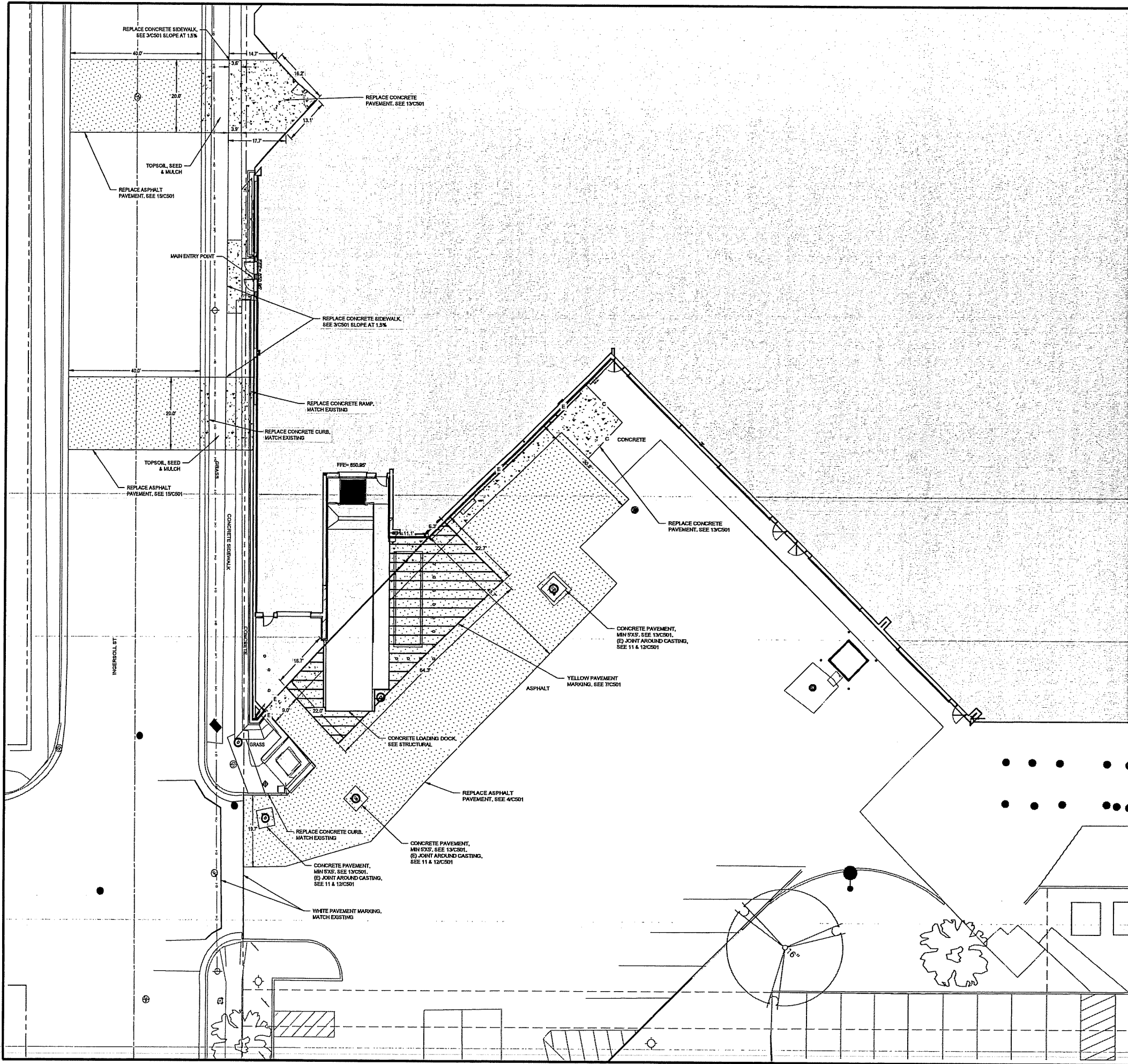
LEGEND:

- ⊙ BOLLARD
- ⦿ FIRE HYDRANT
- ⊕ LIGHT POLE
- ⊙ STORM INLET, ROUND
- ⊙ STORM SEWER MANHOLE
- ⊕ WATER VALVE
- FENCE
- - - - - TEMPORARY CONSTRUCTION FENCE
- SD — STORM SEWER / CULVERT
- W — WATER
- ▨ ASPHALT
- ▩ CONCRETE

SITE KEY PLAN



021619a-2



NOTES:

- 1) REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2) REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3) REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

JOINING PLAN NOTES:

- C = CONTRACTION/CONSTRUCTION JOINTS. SEE 9 & 10/C501
- E = EXPANSION JOINTS. SEE 11 & 12/C501

LEGEND:

- BOLLARD
- FIRE HYDRANT
- LIGHT POLE
- STORM INLET, ROUND
- STORM SEWER MANHOLE
- WATER VALVE
- FENCE
- TEMPORARY CONSTRUCTION FENCE
- STORM SEWER / CULVERT
- WATER
- ASPHALT
- CONCRETE

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

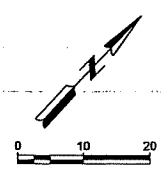
LEUSHY ARCHITECTS, LLC

These drawings shall not be used for any project unless they are accompanied by a signed and sealed professional engineer's stamp and the engineer's license number. The engineer shall be responsible for the design and construction of any structure shown on these drawings. The engineer shall not be responsible for the design and construction of any structure shown on these drawings that is not shown on these drawings.



CITY OF MADISON
METRO TRANSIT - PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1 SOUTH INGERSOLL ST.
MADISON, WI 53703

SITE KEY PLAN



04/08/21 BID SET

CONTRACT NO: 8581
 WPM NO: 450000-190895.03
 DATE: APRIL 8, 2021
 DESIGNED BY: ACA
 DRAWN BY: KSD
 CHECKED BY: ACA
 PROJECT NUMBER: 8581

SHEET CONTENTS
SITE IMPROVEMENTS PLAN

SHEET NO.

C-102

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**CITY OF MADISON
METRO TRANSIT - PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1 SOUTH INGERSOLL ST.
MADISON, WI 53703**

04/08/21 BID SET

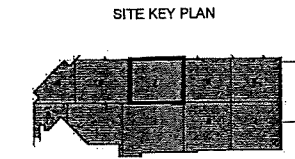
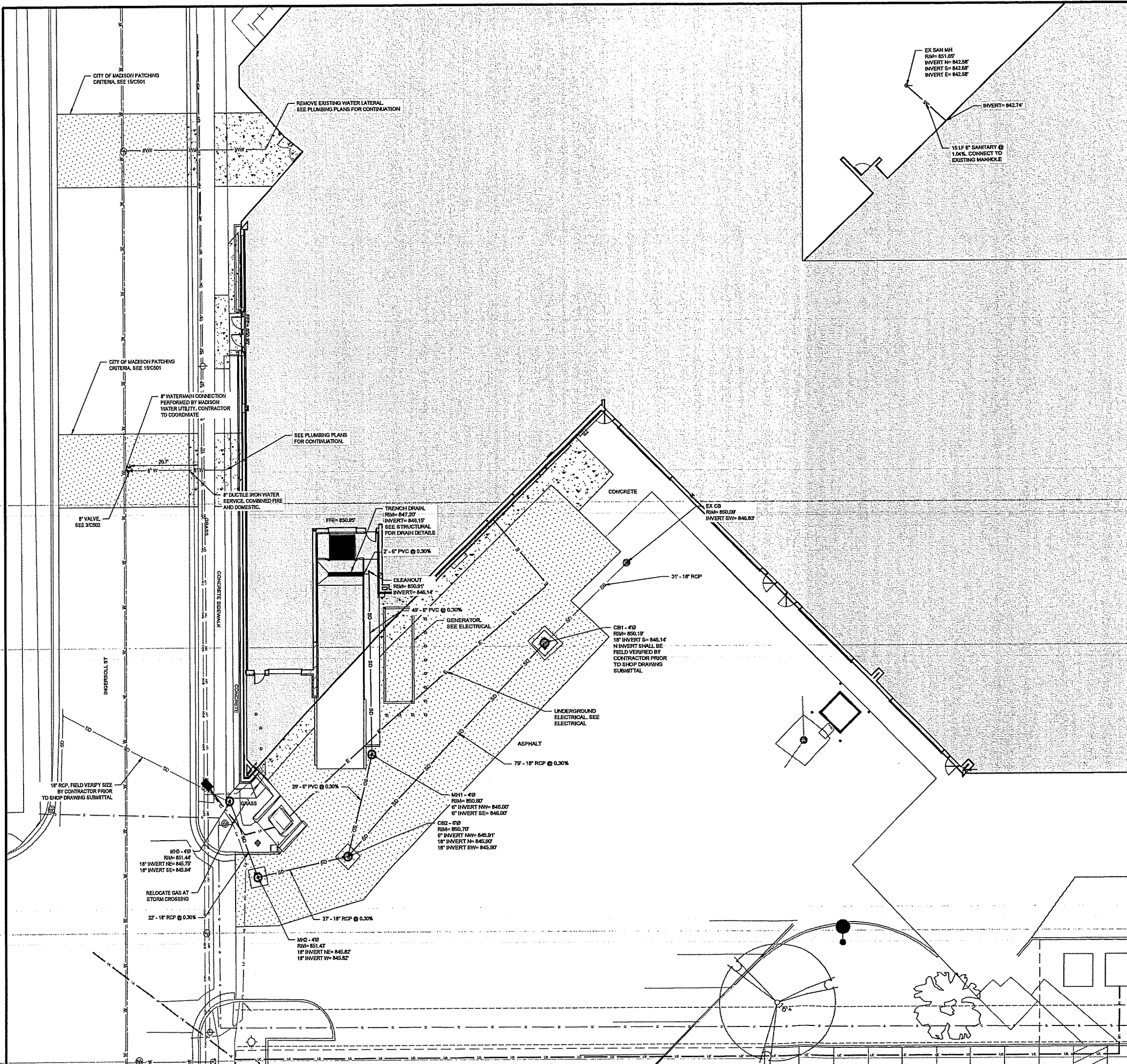
CONTRACT NO.: 8981
SHEET NO.: 4500000-100596.00
DATE: APRIL 8, 2021
DRAWN BY: ACA
CHECKED BY: KSD
DESIGNED BY: ACA
PROJECT: METRO TRANSIT PHASE 3A

SITE UTILITY PLAN

SHEET NO.

C-141

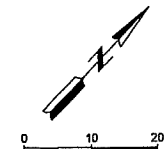
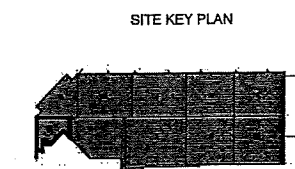
ORIGINAL - 2



- NOTES:**
- 1) REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 - 2) REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 - 3) REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

LEGEND:

	BOLLARD
	FIRE HYDRANT
	LIGHT POLE
	STORM INLET, ROUND
	STORM SEWER MANHOLE
	WATER VALVE
	FENCE
	TEMPORARY CONSTRUCTION FENCE
	STORM SEWER / CULVERT
	WATER
	WATER REMOVAL
	ASPHALT
	CONCRETE



ORIGINAL

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EVENT ARCHITECTS, LLC

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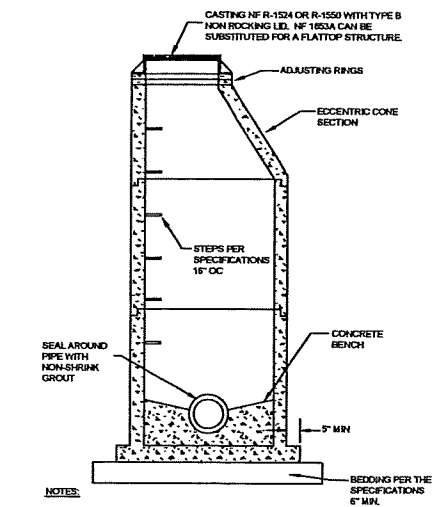


CITY OF MADISON
 METRO TRANSIT - PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1 SOUTH INGERSOLL ST.
 MADISON, WI 53703

DATE: 04/08/21 END SET

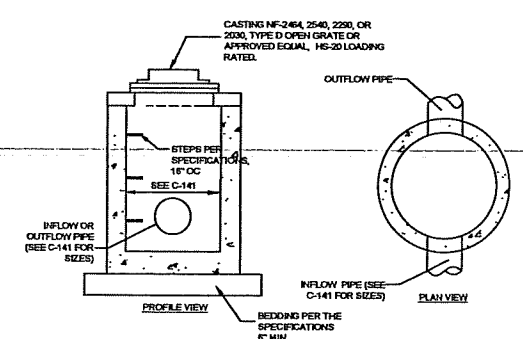
CONTRACT NO: B561
 SHEET NO: 4003500-190898.03
 DATE: APRIL 8, 2021
 PREPARED BY: ACA
 DRAWN BY: KSD
 CHECKED BY: ACA
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 DETAILS



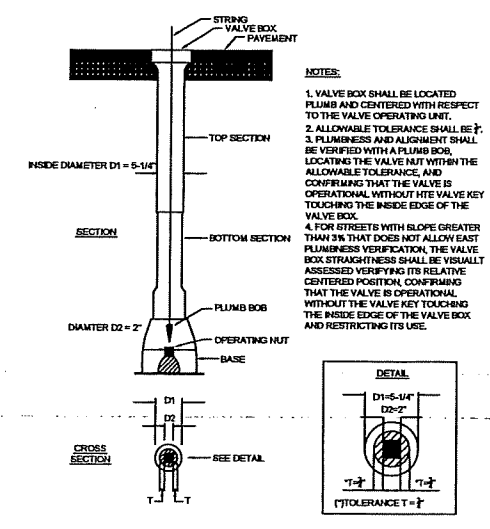
- NOTES:**
1. PROVIDE 4 FOOT DIAMETER MANHOLES UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 2. MANHOLE BASE SHALL BE CAST MONOLITHICALLY WITH THE BARREL SECTION. BOTTOM BARREL SECTION SHALL BE A MINIMUM OF 28 INCHES HIGH.
 3. PROVIDE A MINIMUM OF 4 INCHES OF RING ADJUSTMENT.
 4. WHEN ADDITIONAL ADJUSTMENT IS REQUIRED, IT SHALL BE DONE WITH A COMBINATION OF RINGS THICKER THAN 2 INCHES.

1 STORM MANHOLE DETAIL
 NOT TO SCALE



- NOTES:**
1. PRECAST INLET IN ACCORDANCE WITH THE SPECIFICATIONS.
 2. BASE SHALL BE MONOLITHIC WITH THE RISER SECTION BOTTOM A MINIMUM OF 24 INCHES HIGH.

2 CATCH BASIN DETAIL
 NOT TO SCALE



- NOTES:**
1. VALVE BOX SHALL BE LOCATED PLUMB AND CENTERED WITH RESPECT TO THE VALVE OPERATING UNIT.
 2. ALLOWABLE TOLERANCE SHALL BE ± 1/4\"/>

3 WATER VALVE BOX ALIGNMENT DETAIL
 NOT TO SCALE

STRUCTURAL DESIGN CRITERIA

Table with 2 columns: Criteria Number and Description. Includes governing code (Wisconsin Commercial Building Code), risk category, floor live load, roof live load, wind design data, and seismic design data.

Table with 2 columns: Criteria Number and Description. Includes ultimate wind speed, wind exposure, spectral response coefficient, and seismic design data.

GENERAL NOTES

- 1. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH ARCHITECT/ENGINEER. DO NOT SCALE DRAWINGS!!!
- 2. FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN FOR EXACT DIMENSIONS, LOCATIONS, JOINTS AND SCORE LINES, SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS.

EARTHWORK NOTES

- EN-1. REFERENCE GEOTECHNICAL DATA AND EARTH MOVING SPECIFICATION FOR DEFINITION OF MATERIALS AND COMPACTION REQUIREMENTS.
- EN-2. REFERENCE GEOTECHNICAL DATA AND EARTH MOVING SPECIFICATION FOR REQUIREMENTS FOR EXCAVATION AND CONTROL OF SURFACE WATER AND GROUND WATER.

FOUNDATION NOTES

- F-1. FOOTING SURFACES SHALL BE CLEAN AND FREE OF DEBRIS, STANDING WATER, AND LOOSE SOIL.
- F-2. ALL COLUMN FOOTINGS ARE TO BE CENTERED UNDER COLUMN CENTERLINES, UNLESS INDICATED OTHERWISE.

CONCRETE & REINFORCING STEEL NOTES

- MATERIAL PROPERTIES (U.I.) COMPRESSIVE STRENGTH - Fc = 4 KSI CONCRETE REINFORCEMENT - Fr = 60 KSI (A615 GR 60)
- CR-1. PROVIDE HOTDIP WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

MASONRY NOTES

- MATERIAL PROPERTIES (U.I.) COMPRESSIVE STRENGTH - Fm = 2000 PSI MASONRY REINFORCEMENT - Fr = 60 KSI (A615 GR 60) MORTAR - TYPE S (ASTM C270)
- M-1. PROVIDE HOT AND COLD WEATHER PROCEDURES AND TEMPORARY MOISTURE PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

SHOP DRAWINGS

- SD-1. SHOP DRAWINGS SHALL BE SUBMITTED FOR STRUCTURAL ITEMS AS REQUIRED BY THE SPECIFICATIONS. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- SD-2. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTAL. REVIEWED SUBMITTALS SHALL BE STAMPED BY THE CONTRACTOR. ANY SHOP DRAWING OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE REJECTED.

DELEGATED DESIGN SUBMITTALS

- DD-1. HELICAL PILES - SPECIFICATION SECTION 316615.
- DD-2. PPE AND TUBE RAILINGS - SPECIFICATION SECTION 052513.
- DD-3. COIL FORMED METAL FRAMING - SPECIFICATION SECTION 054000.

STRUCTURAL STEEL NOTES

- MATERIAL PROPERTIES (U.I.) W-SHAPES - Fy = 50 KSI (A99 OR A572 Gr 50) C-SHAPES & ANGLES - Fy = 36 KSI (A36) PLATES & BARS - Fy = 36 KSI (A36)
- S-1. STEEL BEAMS WITH RESIDUAL CAMBER RESULTING FROM MILL FABRICATION OR ROLLING SHALL BE SHOP FABRICATED AND TREATED SUCH THAT THIS RESIDUAL CAMBER COUNTERACTS GRAVITY LOAD DEFLECTION.

STEEL BAR JOISTS

- J-1. BAR JOISTS SHALL BE DESIGNED TO RESIST FORCES INDICATED ON DRAWINGS AND SPECIFICATIONS.
- J-2. TYPICAL BAR JOISTS ARE NOT DESIGNED FOR CONCENTRATED LOADS. PLACE LOADS AT PANEL POINTS OR WELL IN BETWEEN DOUBLE END MEMBERS ONE EACH SIDE FROM POINT OF CONCENTRATED LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD.

METAL DECK

- MD-1. SEE PLAN FOR DEPTH AND GAUGE.
- MD-2. METAL DECKING SHALL BE CONTINUOUS OVER 3 SPANS AND HAVE JOINTS OVER SUPPORTING MEMBERS, UNLESS INDICATED OTHERWISE.

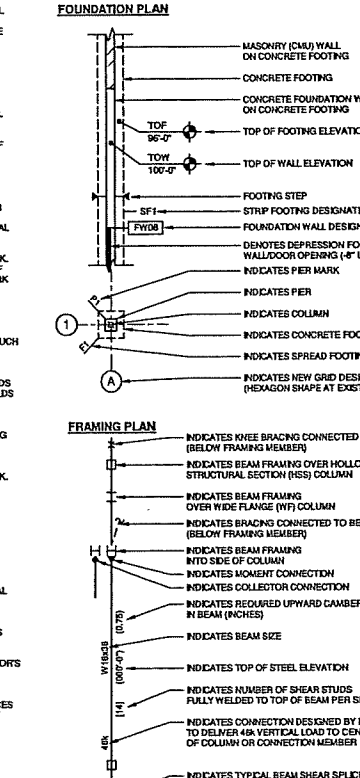
OBSERVATION AND INSPECTION

- T-1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL STRUCTURAL WORK IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY STRUCTURAL INSPECTOR OR INSPECTION AGENCY DOES NOT BELIEVE THE CONTRACTOR OF THE RESPONSIBILITY. ANY STRUCTURAL DEVIATIONS FROM THE CONTRACT DOCUMENTS THAT ARE FOUND AT A LATER DATE SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT COST OR ANY DELAY TO THE PROJECT SCHEDULE.

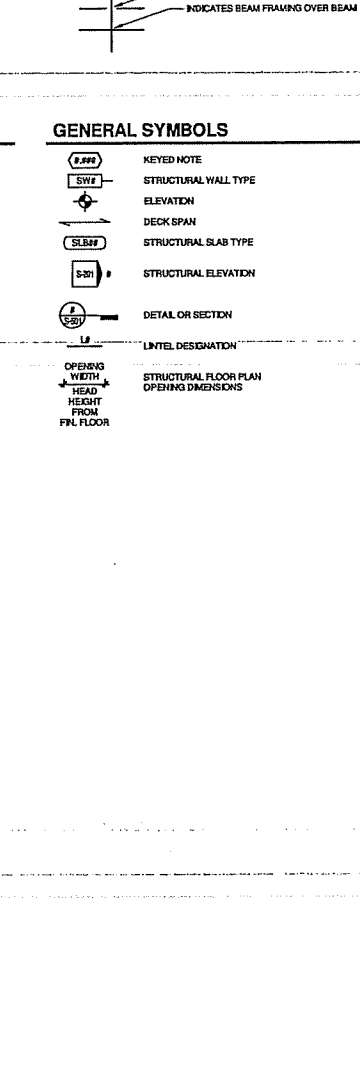
ABBREVIATIONS

- B.O. = BOTTOM OF
- BTM = BOTTOM
- BP = BASE PLATE TYPE
- BRG = BEARING
- C = CENTER TO CENTER
- C.C. = CONSTRUCTION CONTROL JOINT

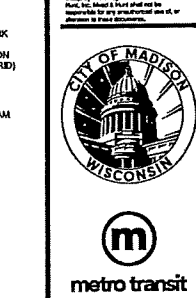
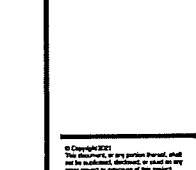
STRUCTURAL SYMBOLOLOGY



GENERAL SYMBOLS



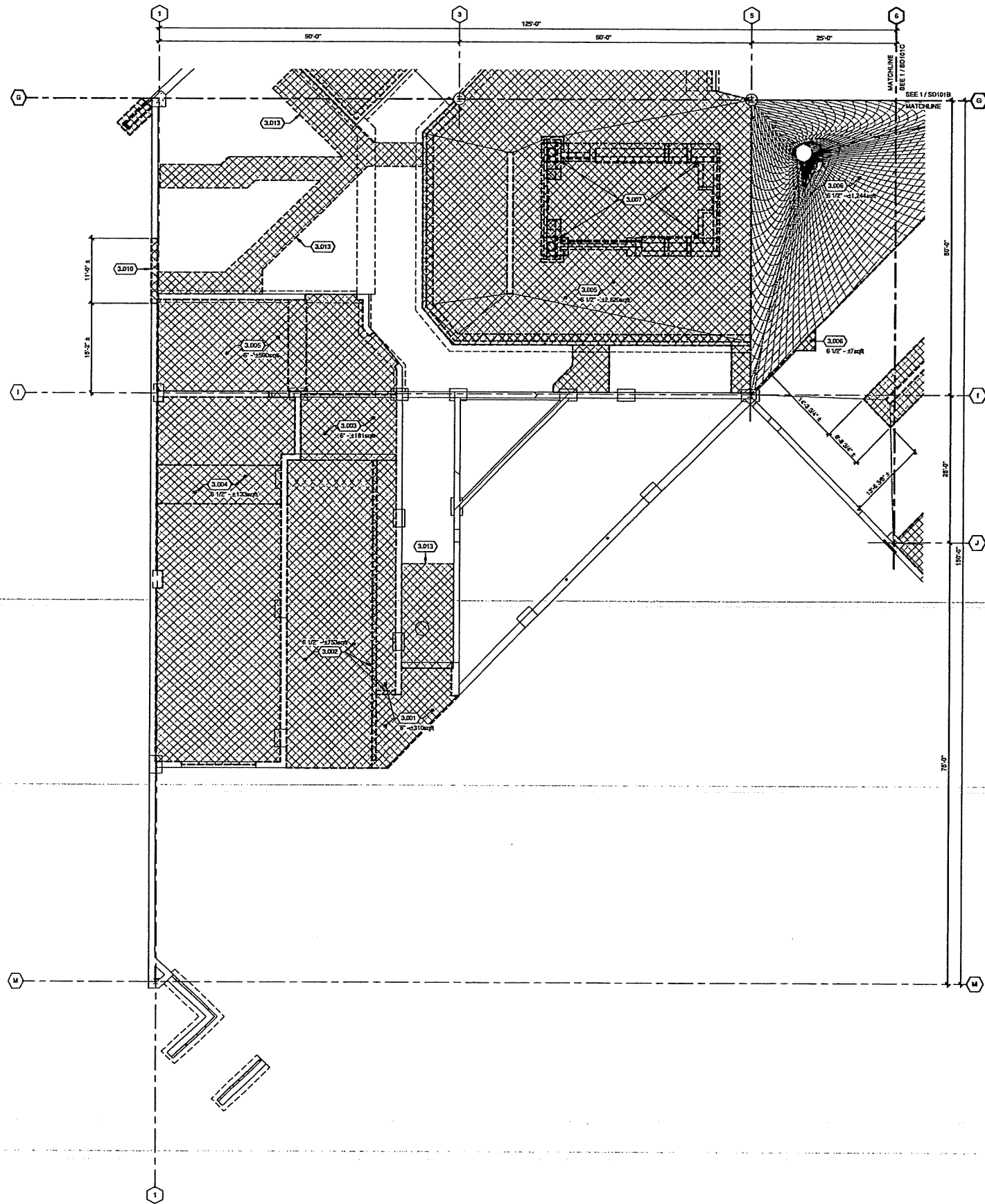
Mead & Hunt, Inc. 2440 Deming Way Middleton, WI 53562 phone: 608-273-6380 meadhunt.com



CITY OF MADISON METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS 1101 EAST WASHINGTON AVE. MADISON, WI 53703

Table with 2 columns: Field and Description. Includes contract number (0901), date (APRIL 8, 2021), designer (DJG), checker (DRM), and sheet title (STRUCTURAL NOTES).

S-001



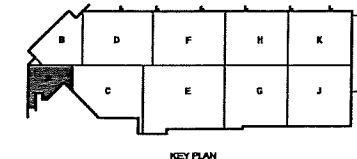
**FOUNDATION AND FLATWORK
DEMOLITION PLAN GENERAL NOTES:**

1. REFERENCE Q-200 THROUGH Q-209 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET Q-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. ATTENTION: FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.001 REMOVE EXISTING EXTERIOR SLAB AS SHOWN.
- 3.002 REMOVE EXISTING LOADING DOCK SLAB AND RETAINING WALLS AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.003 REMOVE EXISTING 2-WAY LOADING DOCK SLAB AS SHOWN. EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.004 REMOVE EXISTING INTERIOR SLAB AS SHOWN FOR NEW FOUNDATION INSTALLATION. EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.005 REMOVE EXISTING INTERIOR SLAB AND THICKENED SLAB AS SHOWN. EXISTING GRADE BEAMS AND FOOTINGS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.006 REMOVE EXISTING INTERIOR SLAB AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.007 REMOVE EXISTING VEHICLE LIFT AND ASSOCIATED CONCRETE SLAB AND FOUNDATIONS. EXISTING STEEL PILES TO REMAIN. TURN OVER LIFT AND ASSOCIATED COMPONENTS TO OWNER AS REQUIRED.
- 3.010 CUT DOWN AND REMOVE EXISTING CONCRETE WALL/GRADE BEAM AS REQUIRED FOR NEW DOORS. TOP OF WALL/GRADE BEAM SHALL BE CUT DOWN TO ELEVATION 99'-6". PREP TOP OF WALL FOR NEW FLOOR FINISH. COORDINATE WITH ARCHITECTURAL PATCH CONCRETE TO FINISHED FLOOR. COORDINATE WITH OTHER MATERIALS FOR FINISH AND EXACT ELEVATION.
- 3.013 REMOVE EXISTING SLAB AS REQUIRED FOR DEMONSTRATION OF PLUMBING. COORDINATE LOCATIONS WITH PLUMBING. REPLACE SLAB AFTER COMPLETION OF PLUMBING WORK WITH SLAB TYPE S1806. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.

TRUE PLAN
NORTH NORTH
FOUNDATION/FLATWORK DEMOLITION PLAN - AREA A
1/8" = 1'-0"



Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
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1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

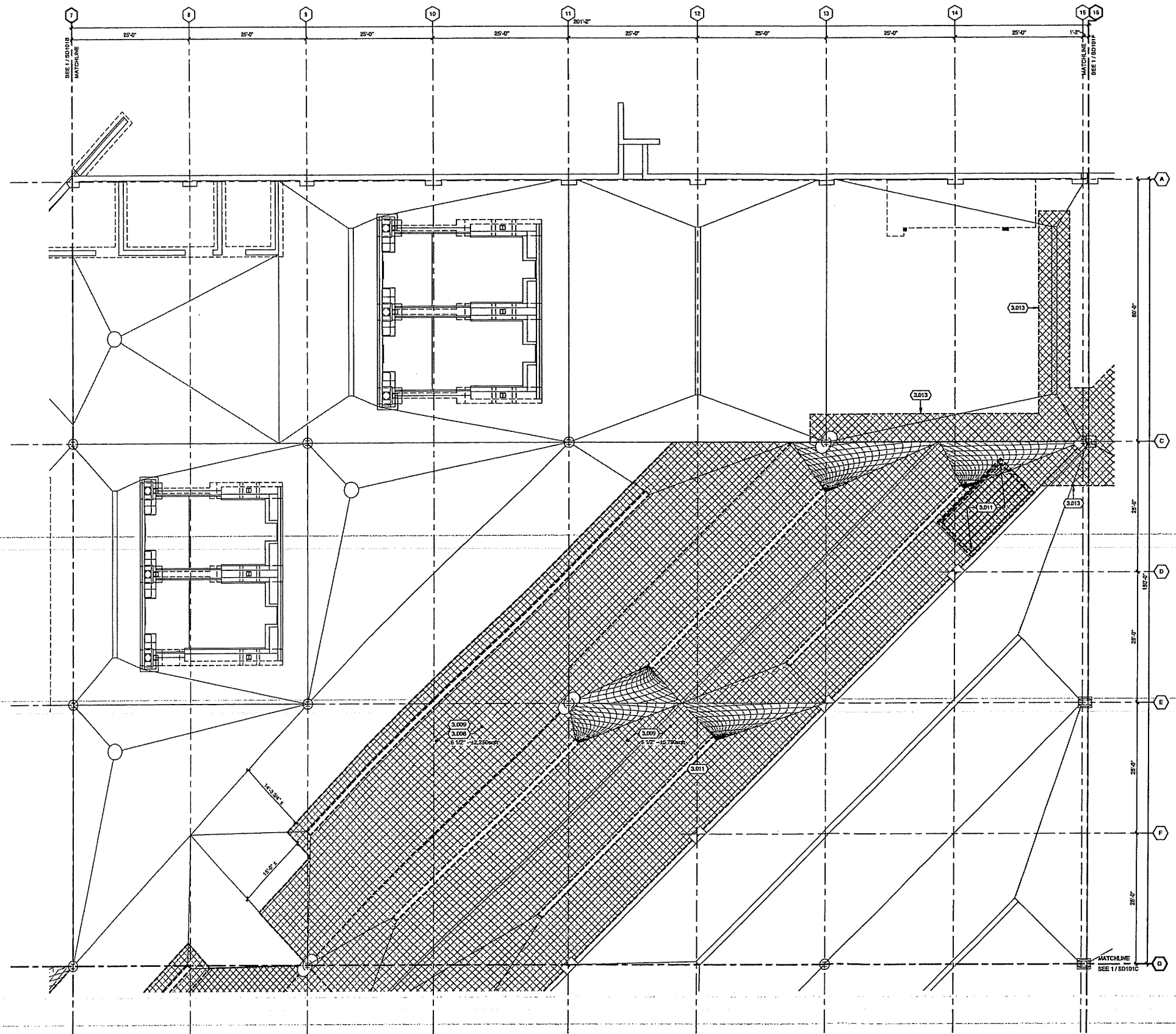
040821 BID SET

CONTRACT NO: 8581
SHEET NO: 4502000-1009620
DATE: APRIL 8, 2021
DESIGNED BY: GXC
DRAWN BY: HLB/MJE
CHECKED BY: DFM
BY NEW SCALE DRAWINGS

SHEET CONTENTS
FOUNDATION AND
FLATWORK
DEMOLITION PLAN -
AREA A
SHEET NO: SD101A

011671244-2

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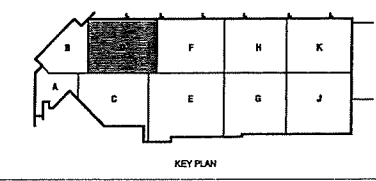


FOUNDATION AND FLATWORK DEMOLITION PLAN GENERAL NOTES:

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. **ATTENTION:** FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.008 REMOVE EXISTING INTERIOR SLAB AND TRENCH DRAIN AS SHOWN FOR INSTALLATION OF NEW CATCH BASIN AND TRENCH DRAINS. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.009 REMOVE EXISTING INTERIOR SLAB AND TRENCH DRAIN(S) AS SHOWN FOR INSTALLATION OF NEW VEHICLE LIFTS AND LIFT PITS. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.011 EXISTING CONCRETE TANK (8' WIDE X 16' LONG X 8' DEEP) BELOW SLAB. REMOVE TANK LID AND TOP 1'-0" OF TANK WALLS. FILL VOID WITH ENGINEERED FILL. COMPACT FILL TO 95% MODIFIED PROCTOR.
- 3.013 REMOVE EXISTING SLAB AS REQUIRED FOR DEMONSTRATION OF PLUMBING. COORDINATE LOCATIONS WITH PLUMBING. REPLACE SLAB AFTER COMPLETION OF PLUMBING WORK WITH SLAB TYPE SLAB. MATCH ADJACENT FLOOR ELEVATIONS AND SLDPEL.



TRUE PLAN NORTH NORTH

FOUNDATION/FLATWORK DEMOLITION PLAN - AREA D
 1/8" = 1'-0"

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53552
 phone: 608-273-6380
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**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS**
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

CONTRACT NO: 8581
 MWD NO.: 420520-190896.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DJD
 DRAWN BY: HAJ/AJE
 CHECKED BY: DRM
 DO NOT SCALE DIMENSIONS

SHEET NO.: **SD101D**

ORIGINAL-2

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

045921 BID SET

CONTRACT NO.: 5581
SHEET NO.: 4502000-10086.00
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NJB/MAE
CHECKED BY: DRM
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SHEET COMMENTS
FOUNDATION PLAN -
AREA A

SHEET NO.:

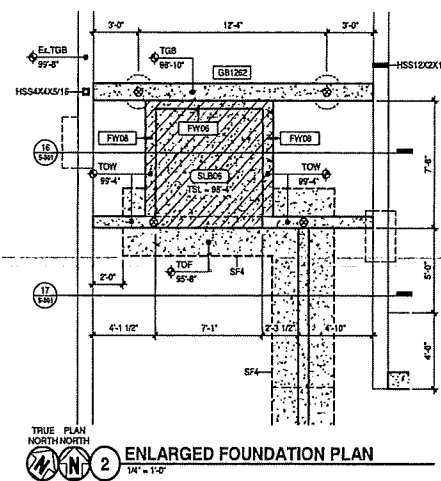
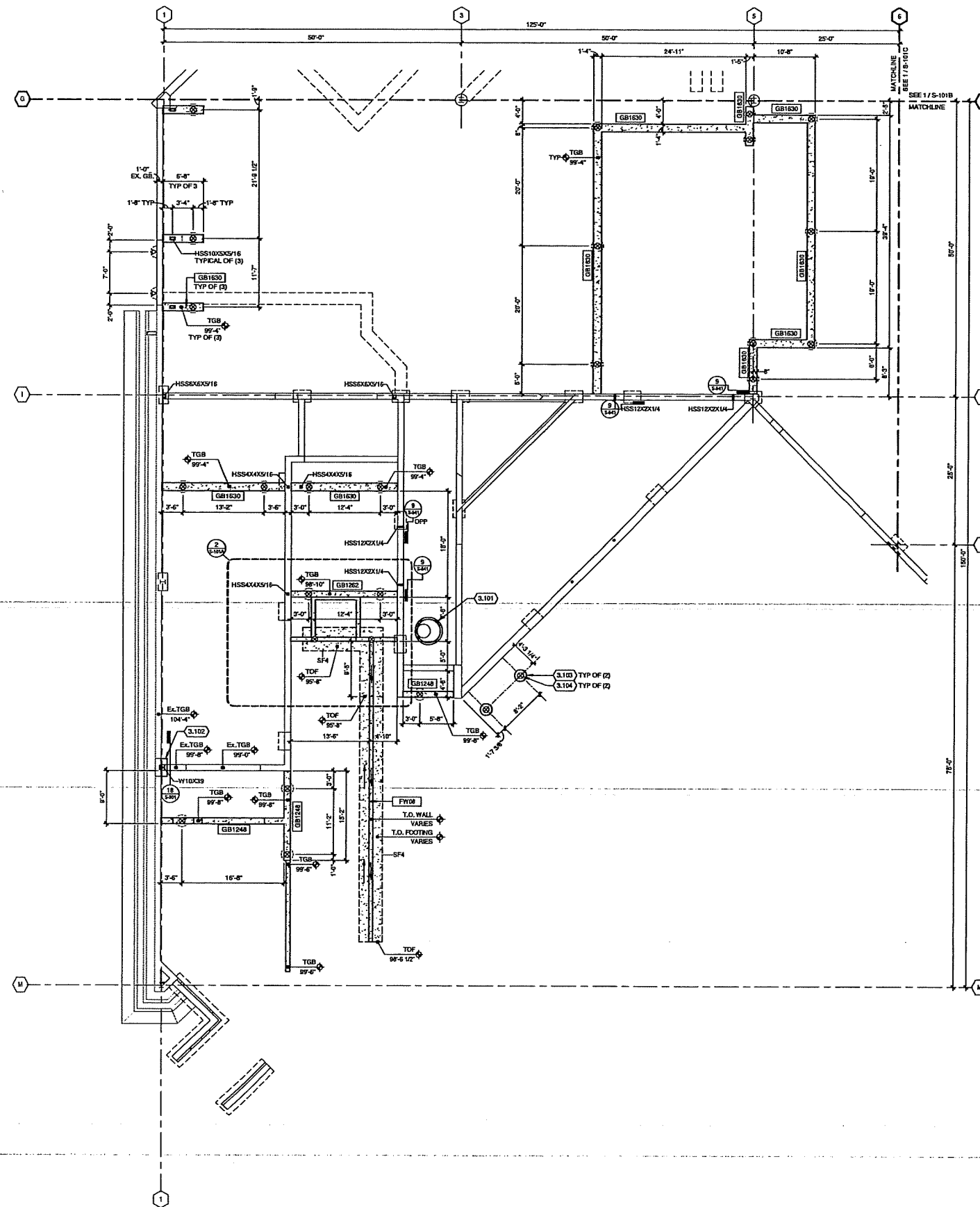
S-101A

**FOUNDATION
PLAN GENERAL NOTES:**

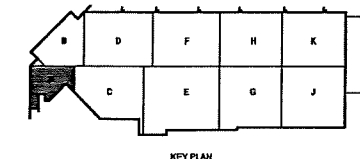
1. REFERENCE C-200 THROUGH C-208 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET C-101 FINISHING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. TOP OF FOOTING ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
11. (A) = RETROFIT HELICAL PIER
• 32 KP SERVICE LEVEL CAPACITY
• MINIMUM EMBEDMENT DEPTH = 25'-0"
12. (B) = NEW HELICAL PIER
• 32 KP SERVICE LEVEL CAPACITY
• MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

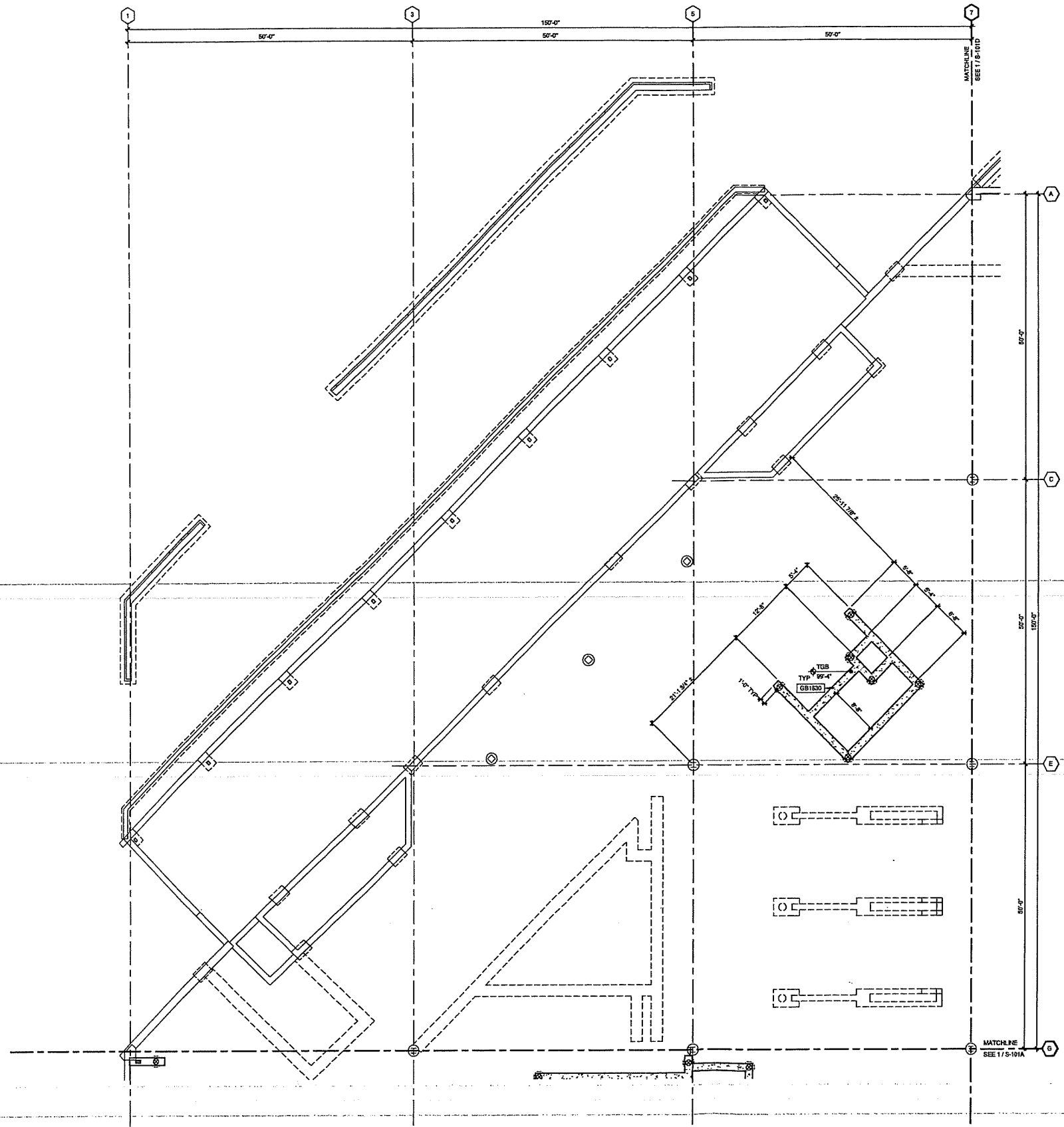
- 3.101 4'-0" DIAMETER X 6'-0" DEEP MANHOLE WITH SOLID BOTTOM FLAT TOP WITH 20" DIAMETER OFFSET MANWAY HOLE. CAST IRON CASTING WITH SLOTTED CAST IRON GRATE. FILL BOTTOM 3'-0" WITH CLEAR, WASHED 3/4" LIMESTONE, LESS THAN 5% PASSING 3/8". MANHOLE MUST BE LIMESTONE FOR NEUTRALIZATION OF SPILLED BATTERY ACID.
- 3.102 NEW PIER AT EXISTING GRADE BEAM, SEE DETAIL 14S-501.
- 3.103 24" DIAMETER CONCRETE PIER, FULL 8'-0" HEIGHT TO BE POURED AT THE SAME TIME. REINFORCING SHALL BE 6# VERTICAL BARS, #2 TIES SPACED AT 12" VERTICALLY, AND TRIPLE TOP TIE IN THE TOP 12" OF PIER. DOME TOP OF PIER WITH SLOPE OF 1/4" PER FOOT MINIMUM.
- 3.104 HELICAL PIER, 10 KP COMPRESSION CAPACITY.



TRUE PLAN NORTH NORTH
1
FOUNDATION PLAN - AREA A
1/8" = 1'-0"



ORIGINAL-2



- FOUNDATION PLAN GENERAL NOTES:**
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING SEQUENCING AND SITE ACCESS.
 3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
 4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
 5. FIELD VERIFY ALL DIMENSIONS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
 6. REFER TO SHEET G-091 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
 7. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
 8. TOP OF FOOTING ELEVATION = 96'-0" UNLESS NOTED OTHERWISE.
 9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
 10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
 11. (A) = RETROFIT HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"
 12. (B) = NEW HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

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 meadandhunt.com

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**CITY OF MADISON
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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

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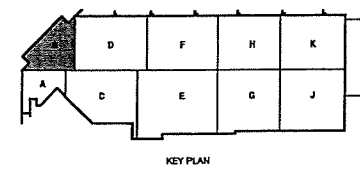
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 DRAWN BY: NRB / MAE
 CHECKED BY: DRM
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BEST COPY AVAILABLE
 FOUNDATION PLAN -
 AREA B

SHEET NO:
S-101B

TRUE PLAN
 NORTH NORTH

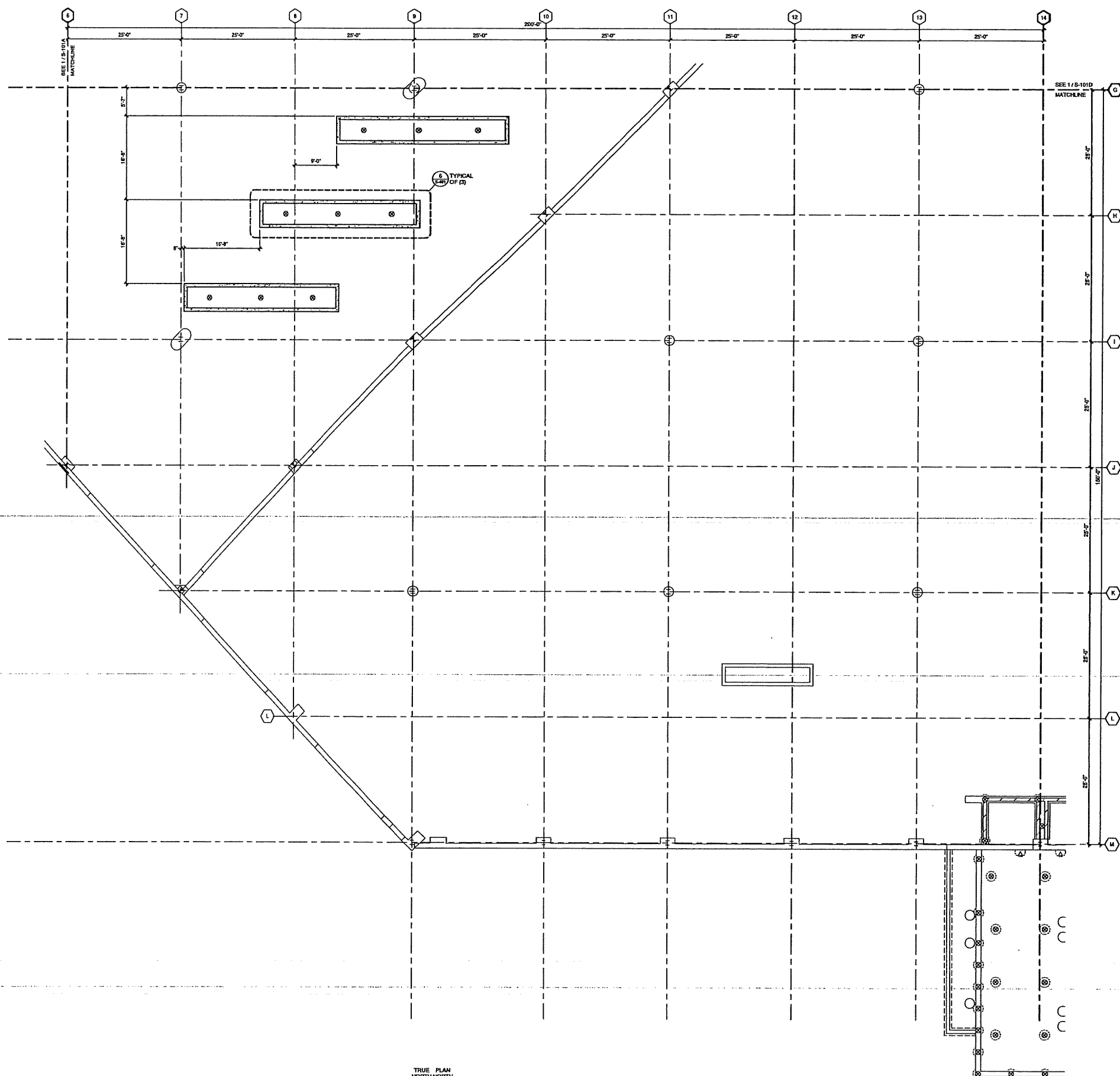
1 FOUNDATION PLAN - AREA B
 1/8" = 1'-0"



KEY PLAN

ORIGINAL - 2

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FOUNDATION PLAN GENERAL NOTES:

1. REFERENCE G-200 THROUGH G-208 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. TOP OF FOOTING ELEVATION = 96'-0" UNLESS NOTED OTHERWISE.
9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
11. (A) = RETROFIT HELICAL PIER
 - 32 KP SERVICE LEVEL CAPACITY
 - MINIMUM EMBEDMENT DEPTH = 25'-0"
12. (B) = NEW HELICAL PIER
 - 32 KP SERVICE LEVEL CAPACITY
 - MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

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 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
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 METRO TRANSIT PHASE 3A - MAINTENANCE AND
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 1101 EAST WASHINGTON AVE.
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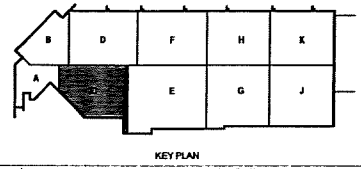
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CONTRACT NO. 2001
 PROJ. NO.: 4500000-19086602
 DATE: APRIL 8, 2021
 DESIGNED BY: DDC
 DRAWN BY: NUB/MAE
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SHEET CONTENTS
 FOUNDATION PLAN - AREA C

SHEET NO.:

S-101C

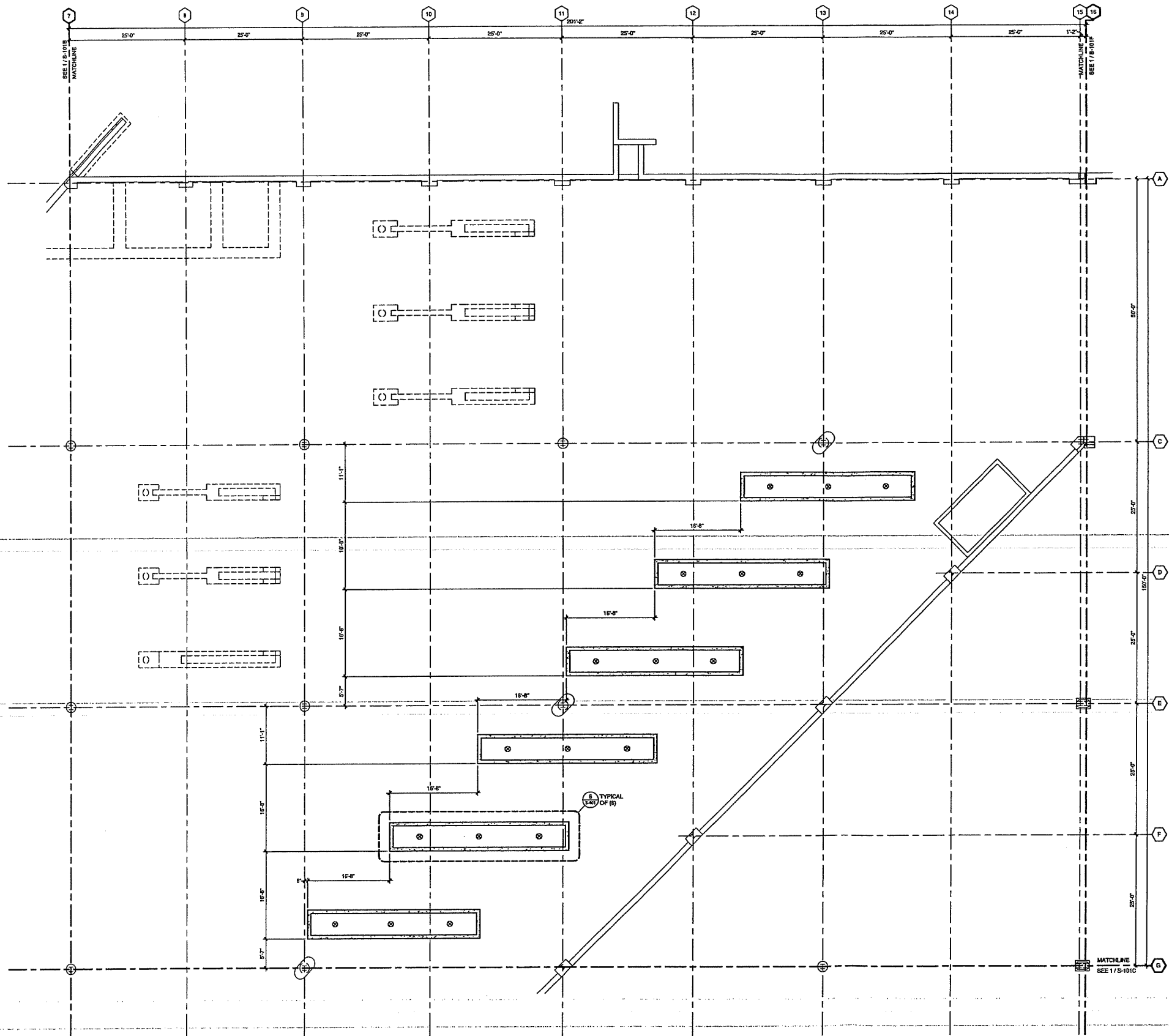


TRUE PLAN
 NORTH NORTH

1 FOUNDATION PLAN - AREA C
 1/8" = 1'-0"

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ORIGINAL - 2



**FOUNDATION
PLAN GENERAL NOTES:**

1. REFERENCE G-400 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. TOP OF FOOTING ELEVATION = 85'-0" UNLESS NOTED OTHERWISE.
9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
11. (R) = RETROFIT HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"
12. (N) = NEW HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

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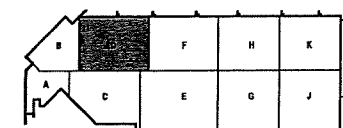
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CONTRACT NO: 8981
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DATE: APRIL 8, 2021
DESIGNED BY: DAX
DRAWN BY: NJB/JAE
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SHEET CONTENTS
FOUNDATION PLAN -
AREA D

SHEET NO.
S-101D

TRUE PLAN
NORTH NORTH
1 FOUNDATION PLAN - AREA D
1/8" = 1'-0"



KEY PLAN

ORIGINAL-2

ORIG. N/A - 2

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1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

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CONTRACT NO: 6981
PLAN NO: 4503500-100036.02
DATE: APRIL 8, 2021
DESIGNED BY: DMC
DRAWN BY: NJS / MJE
CHECKED BY: DRM
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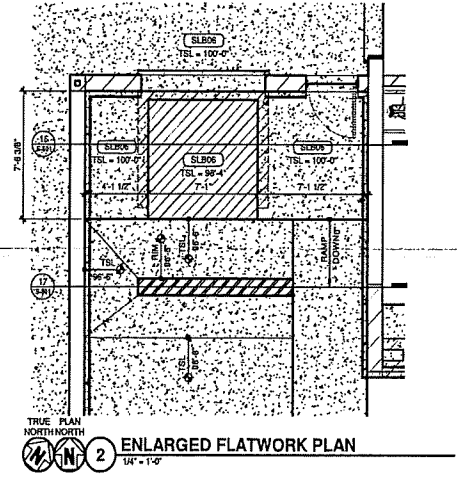
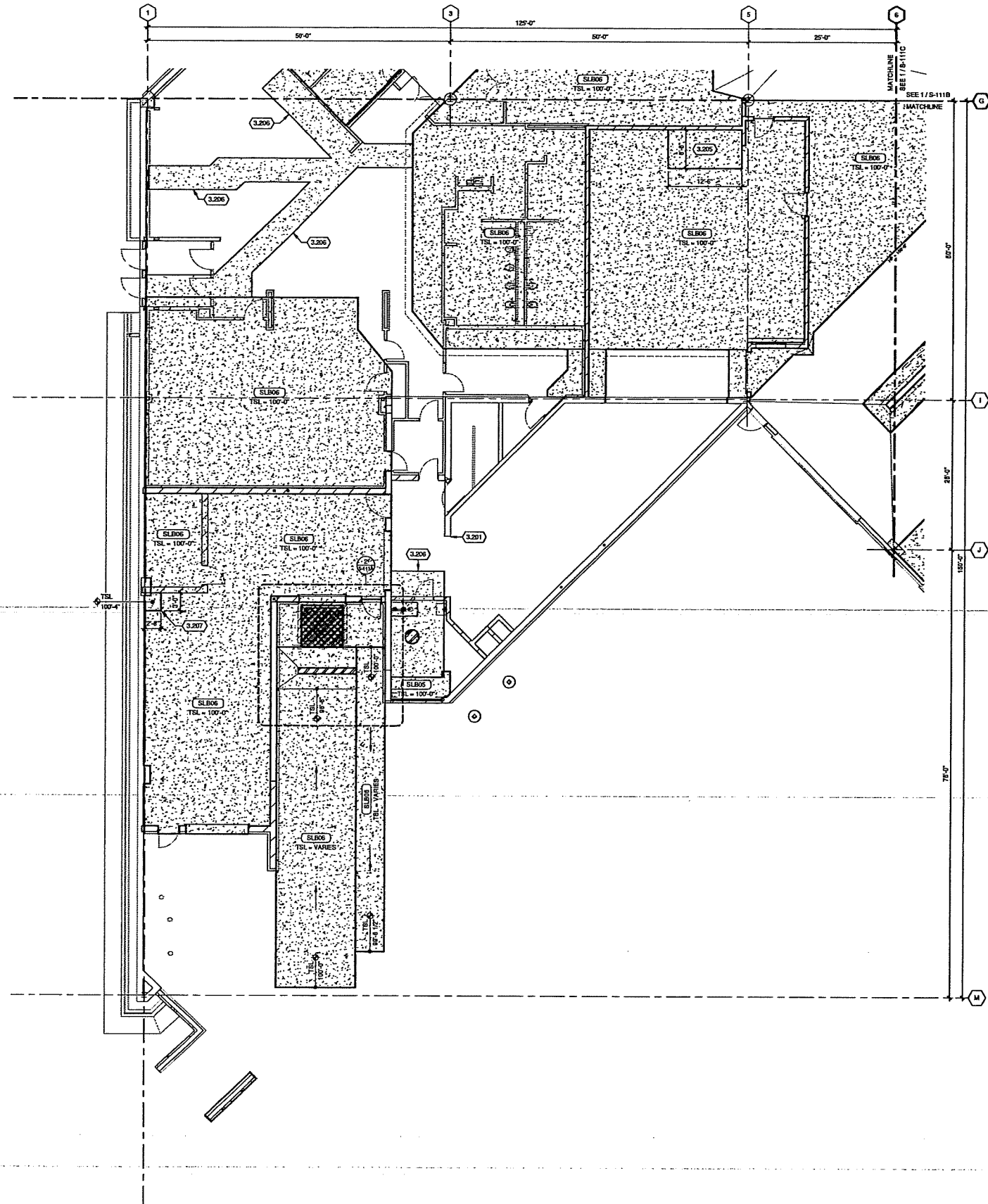
SHEET CONTAINS
FIRST FLOOR
FLATWORK PLAN -
AREA A

SHEET NO:

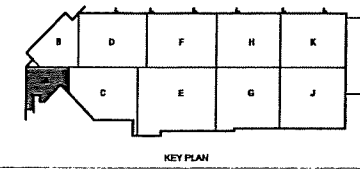
S-111A

- FLATWORK
PLAN GENERAL NOTES:**
1. REFERENCE G-200 THROUGH G-400 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR FINISHES, AND CLASS 1 DW 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
 4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
 5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
 6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
 7. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
 8. REFER TO DETAIL 1/S-511 FOR STRUCTURAL SLAB TYPES.
 9. FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
 10. (2) DASHED LINES $\text{---} \text{---}$ INDICATE (2) ADDITIONAL #4 BARS (2" LONG) DIAGONAL @ FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.
 11. DOWEL ALL NEW SLAB/FILL TO EXISTING PER DETAIL 9/S-511, UNLESS INDICATED OTHERWISE.
 12. **ATTENTION:** FULL EXTENT OF SLAB REPLACEMENT REQUIRED DUE TO OTHER DISCIPLINES DEMOLITION MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED SLAB REPLACEMENT WITH OTHER DISCIPLINES AND IN-FIELD CONDITIONS.

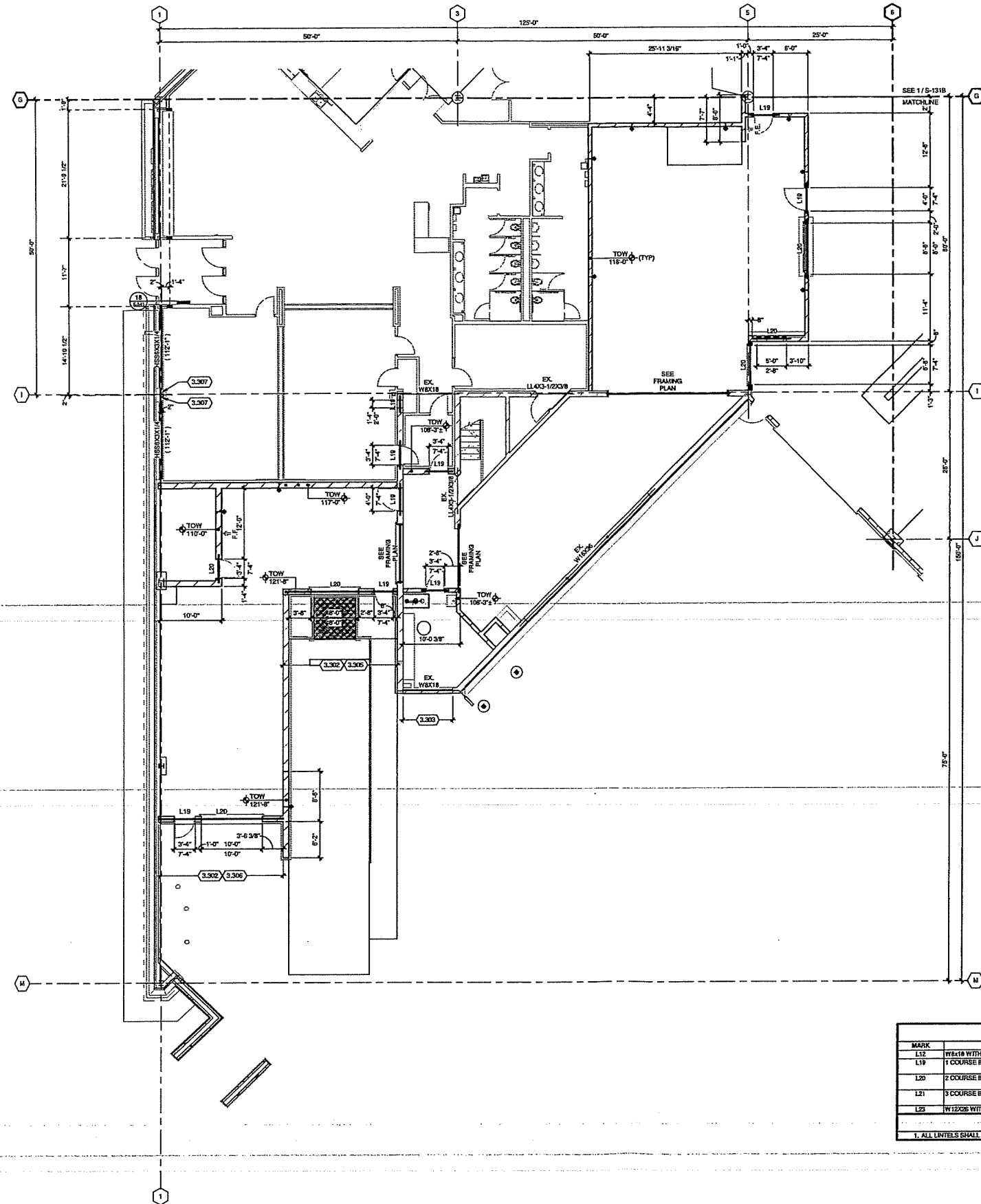
- KEYED NOTES**
- 3.201 PATCH SLAB AT WALL REMOVAL, MATCH EXISTING THICKNESS, DOWEL PER DETAIL 9/S-511.
 - 3.205 12" ISOLATED EQUIPMENT PAD, SEE DETAIL 7/S-511, TOP OF SLAB ELEVATION = 100'-0".
 - 3.206 SLAB REPLACEMENT AFTER COMPLETION OF PLUMBING DEMONSTRATION, COORDINATE LOCATIONS WITH PLUMBING. REPLACE WITH SLAB TYPE SLB06. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.
 - 3.207 NEW EQUIPMENT PAD, SEE DETAIL 6/S-511, COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING EQUIPMENT SUPPLIER.



TRUE PLAN NORTH NORTH **1** FIRST FLOOR FLATWORK PLAN - AREA A 1/8" = 1'-0"



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STRUCTURAL FLOOR PLAN GENERAL NOTES:

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DW 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOLOGY.
7. REFER TO SHEET S-131A FOR LINTEL SCHEDULE.
8. REFER TO SHEET S-031 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
9. ALL MASONRY WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48" O.C., CENTERED IN WALL, UNLESS INDICATED OTHERWISE.
10. GROUT ALL MASONRY SOLID BELOW FINISHED FLOOR ELEVATION AND 1 FULL COURSE ABOVE FINISHED FLOOR.
11. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
12. STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
13. PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED EXCEEDING 14'-0" HANG IN WIDTH). COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
14. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
15. CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.

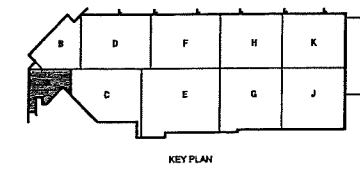
KEYED NOTES

- 3.302 NEW 8" CMU WALL FULLY GROUTED, FULL HEIGHT, WITH JAMB REINFORCING PER DETAIL S-5-S21.
- 3.303 NEW 8" CMU INFILL FULLY GROUTED WITH #5 VERTICAL BAR EACH CORE.
- 3.305 LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL.
- 3.306 LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL, FULL LENGTH BOND BEAM WITH (2) #5 BARS AT 4'-0" VERTICAL SPACING ABOVE OPENINGS.
- 3.307 FIELD WELD HSS LINTEL BEAM TO HSS COLUMN WITH 1/4" FILLET WELD, THREE SIDES.

LINTEL SCHEDULE				
MARK	DESCRIPTION	BEARING	DETAIL	REMARKS
L12	W8x18 WITH PLATE	8" E.E.		
L19	1 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	8" E.E.		NO BOTTOM PLATE
L20	2 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	4" E.E.		NO BOTTOM PLATE
L21	3 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	24" E.E.		NO BOTTOM PLATE
L22	W12x26 WITH PL14x11-1/2	8" E.E.		

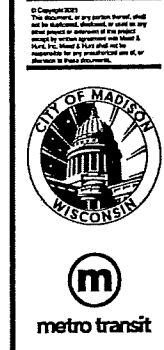
LINTEL SCHEDULE GENERAL NOTES

1. ALL LINTELS SHALL HAVE 1/4" THICK BOTTOM PLATE TO MATCH WIDTH OF WALL MINUS 1/4" EACH SIDE UNLESS NOTED OTHERWISE.



TRUE PLAN NORTH NORTH
1 STRUCTURAL FIRST FLOOR PLAN - AREA A
 1/8" = 1'-0"

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadandhunt.com



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

DATE: 04/08/21 BID SET
 CONTRACT NO.: 8581
 DRAWING NO.: 4302500-100866103
 DATE: APRIL 8, 2021
 DESIGNED BY: DMC
 ENGINEER: NJB / AUE
 CHECKED BY: DRM
 PROJECT SCALE DIMENSIONS
 SHEET CONTAINS: STRUCTURAL FIRST FLOOR PLAN - AREA A
 SHEET NO.: **S-131A**

ORIGINAL - 2



**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/06/21 BID SET

CONTRACT NO. 8981
M&H NO. 4502900-190095L03
DATE: APRIL 8, 2021
DESIGNED BY: DXD
DRAWN BY: NUB/MAE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS

SHEET CONTAINS:
MEZZANINE
FRAMING PLAN -
AREA A

SHEET NO.:

S-142A

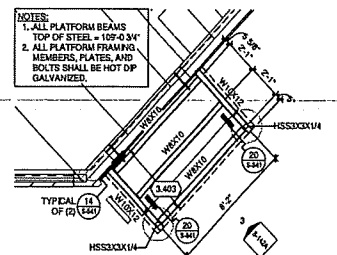
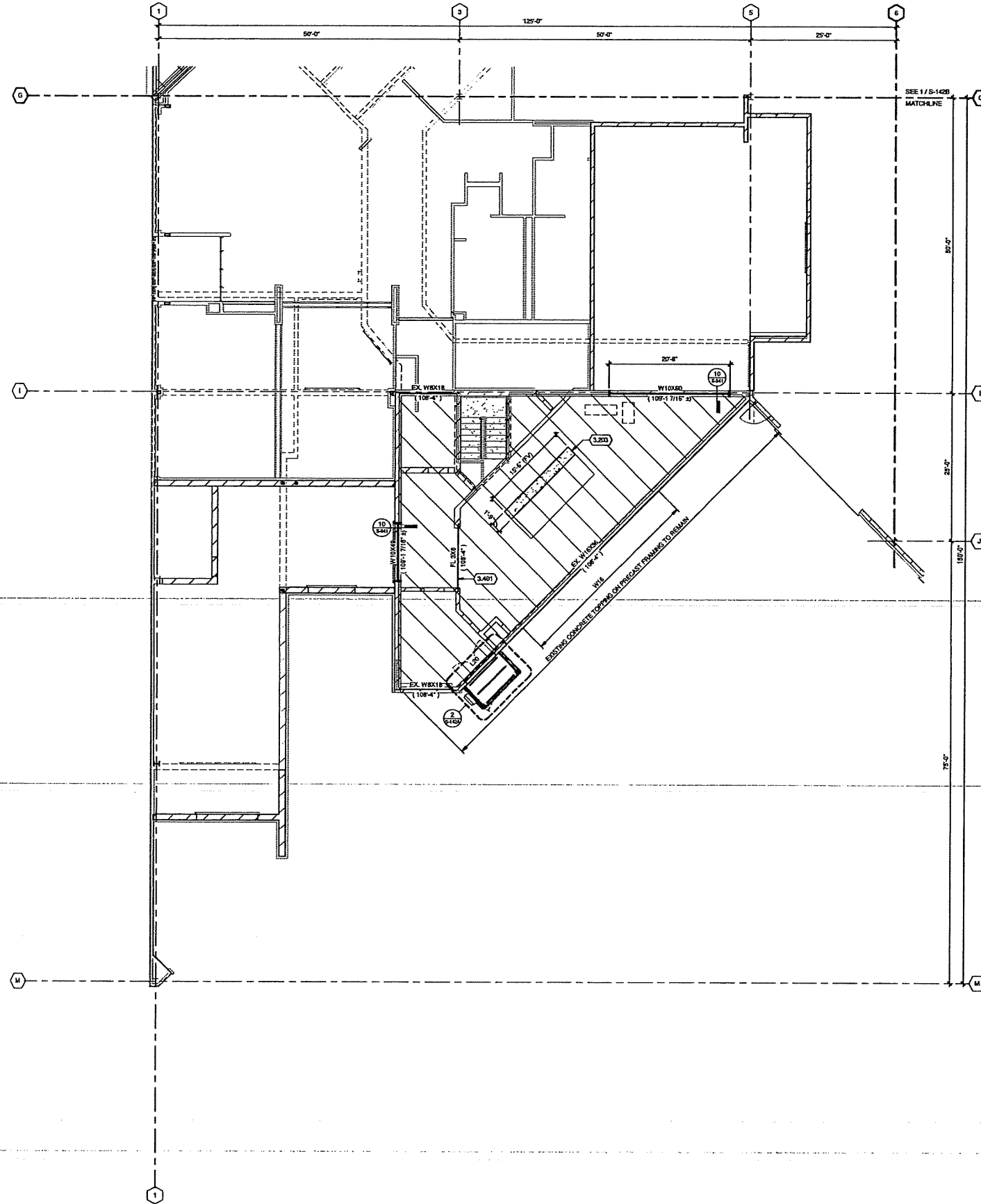
ORIGINAL - 2

FRAMING PLAN GENERAL NOTES:

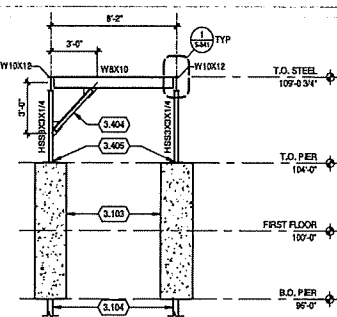
1. REFERENCE G-00 THROUGH G-026 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE O-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 107'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS.
7. REFER TO SHEET S-041 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.

KEYED NOTES

- 3.100 24" DIAMETER CONCRETE PIER, FULL 8'-0" HEIGHT TO BE POURED AT THE SAME TIME. REINFORCING SHALL BE (6) #5 VERTICAL BARS, #2 TIES SPACED AT 12" VERTICALLY, AND TRIPLE TOP TIE IN THE TOP 12" OF PIER. DOME TOP OF PIER WITH SLOPE OF 1/4" PER FOOT MINIMUM.
- 3.104 HELICAL PIER, 10 KIP COMPRESSION CAPACITY.
- 3.203 NEW EQUIPMENT PAD EXTENSION TO EXISTING. SEE DETAIL 13'S-611. MATCH ELEVATION OF EXISTING PAD.
- 3.401 NEW #33 STEEL BAR FLATWISE, GR 36 MINIMUM.
- 3.403 BAR GRATING 1-1/4" X 1/4" BEARING BARS AT 15/16" O.C. SPACING. CROSS RODS AT 2" O.C. CROSS RODS WELDED. HOT DIP GALVANIZED. CONNECT GRATING TO SUPPORT BEAMS WITH HOT DIP GALVANIZED G-CLIPS. NO FIELD DRILLING ALLOWED.
- 3.404 2L3X2X1/4 LBS BRACE BOLTED TO 3/8" GUSSET PLATE EACH END WITH (2) 3/4" DIAMETER A325 BLP CRITICAL BOLTS.
- 3.405 3/4" THICK COLUMN BASE PLATE (SEE DETAIL 7'S-641) WITH (3) 3/4" DIAMETER CAST IN PLACE HEADED ANCHOR RODS, HOT DIP GALVANIZED, NO GROUT BED.

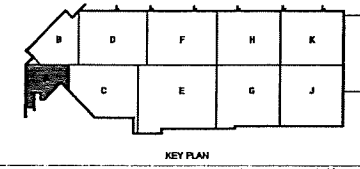


2 ENLARGED FRAMING PLAN
1/4" = 1'-0"



3 PLATFORM FRAMING ELEVATION
1/4" = 1'-0"

1 MEZZANINE FRAMING PLAN - AREA A
1/4" = 1'-0"





CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

ISSUE
04/09/21 BID SET

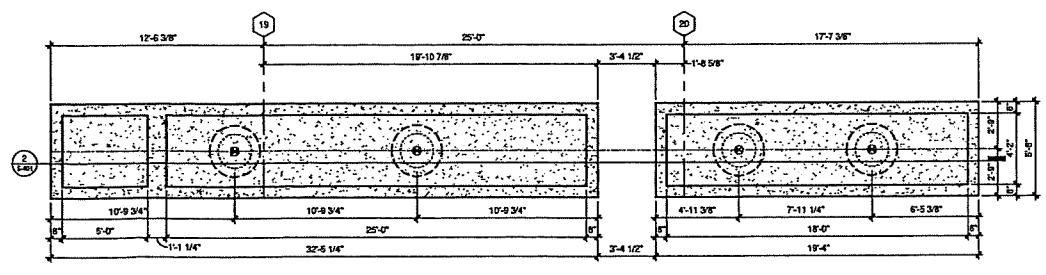
CONTRACT NO: 8581
MANUAL: 4503200-190886.03
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NJS/MJE
CHECKED BY: DRM
SCALE: DRAWINGS

SHEET CONTENTS
ENLARGED
FOUNDATION PLANS
AND DETAILS

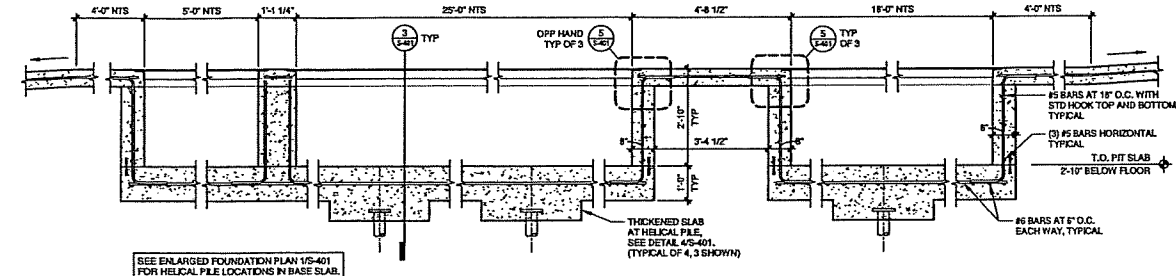
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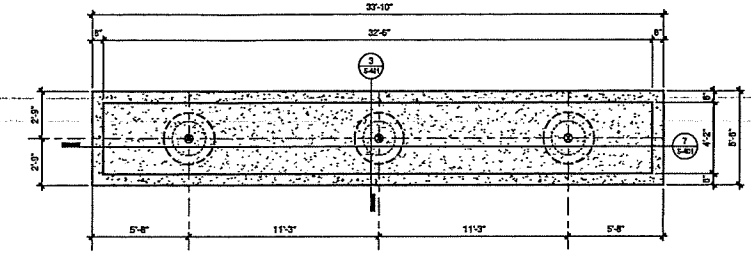
ORIGINAL - 2



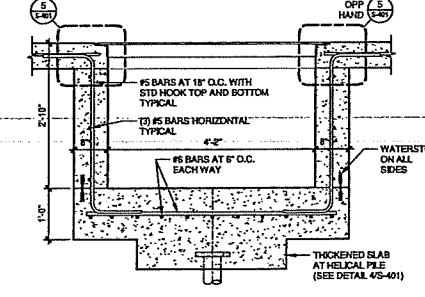
TRUE PLAN NORTH NORTH
1 ENLARGED FOUNDATION PLAN - LIFT
1/4" = 1'-0"



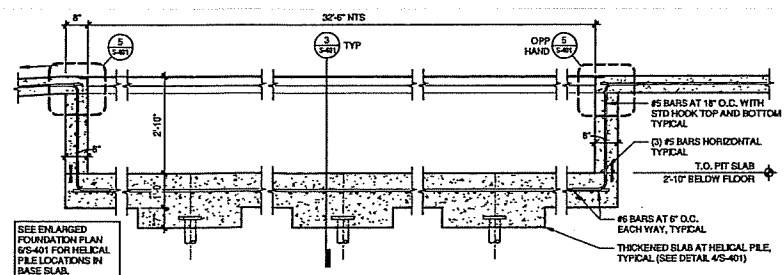
2 FOUNDATION SECTION - LIFT
1/2" = 1'-0"



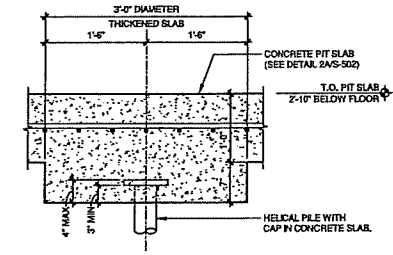
TRUE PLAN NORTH NORTH
6 ENLARGED FOUNDATION PLAN - ECO 60-13 LIFT
1/4" = 1'-0"



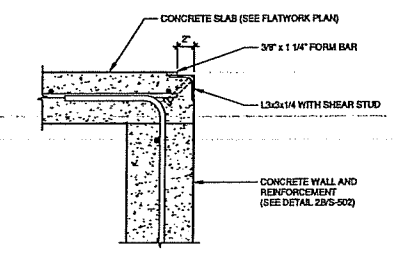
3 FOUNDATION SECTION - LIFTS
3/4" = 1'-0"



7 FOUNDATION SECTION - ECO LIFT
1/2" = 1'-0"

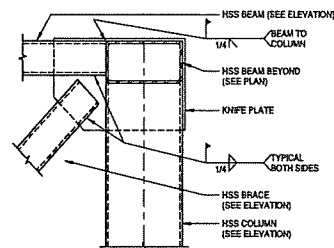


4 HELICAL PILE AT SLAB - LIFTS
1" = 1'-0"

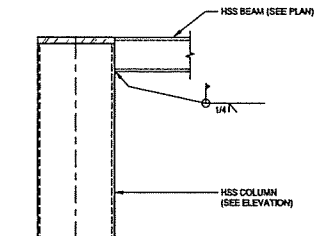


5 FOUNDATION DETAIL - LIFTS
1 1/2" = 1'-0"

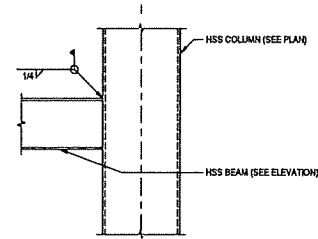
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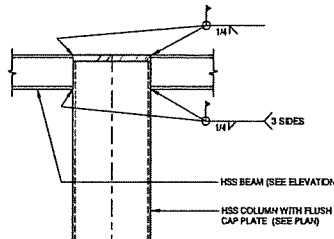
11 OVERHANG FRAMING CONNECTION
1/2" = 1'-0"



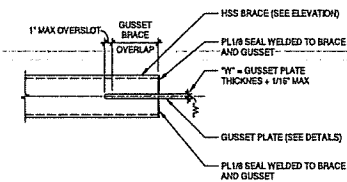
7 OVERHANG FRAMING CONNECTION
1/2" = 1'-0"



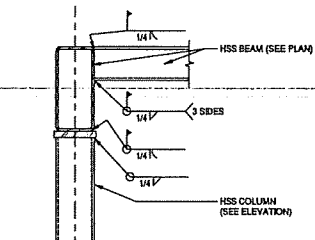
12 OVERHANG FRAMING CONNECTION
1/2" = 1'-0"



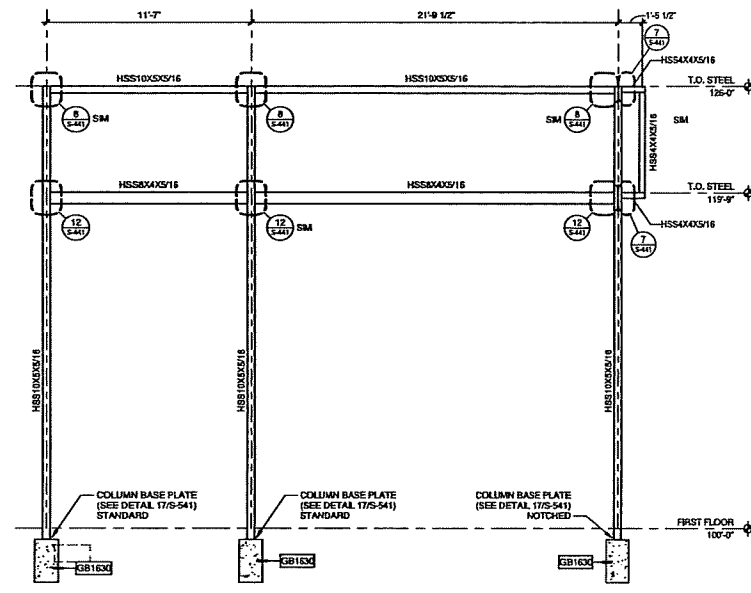
8 OVERHANG FRAMING CONNECTION
1/2" = 1'-0"



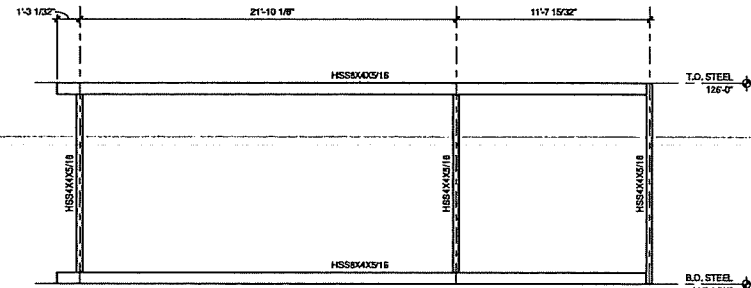
13 BRACED FRAME SLOT CUT
1/2" = 1'-0"



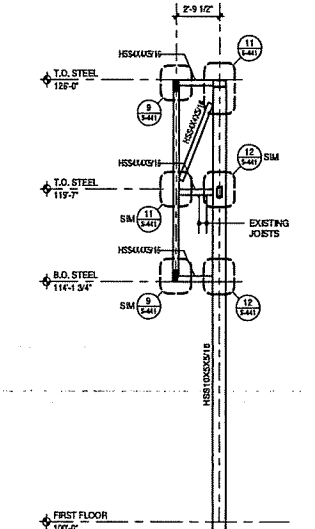
9 OVERHANG FRAMING CONNECTION
1/2" = 1'-0"



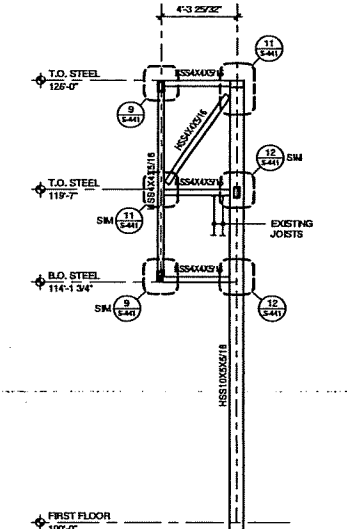
3 OVERHANG FRAMING ELEVATION
1/4" = 1'-0"



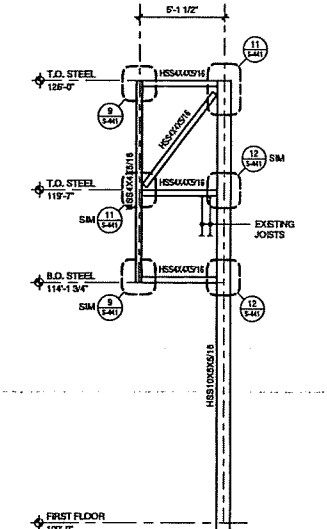
4 OVERHANG FRAMING ELEVATION
1/4" = 1'-0"



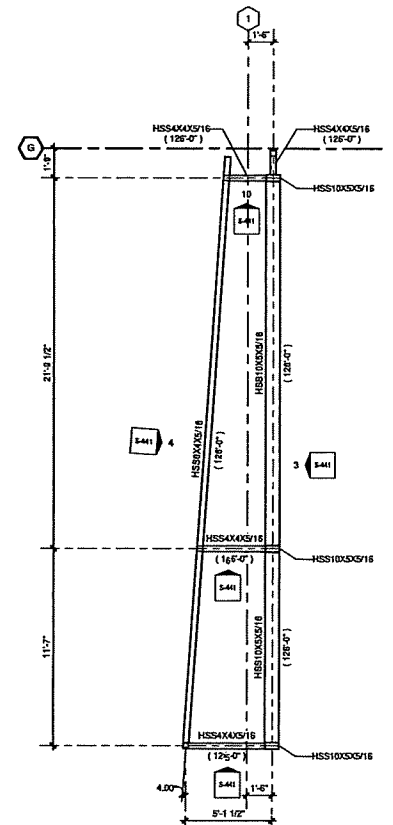
10 OVERHANG FRAMING ELEVATION
1/4" = 1'-0"



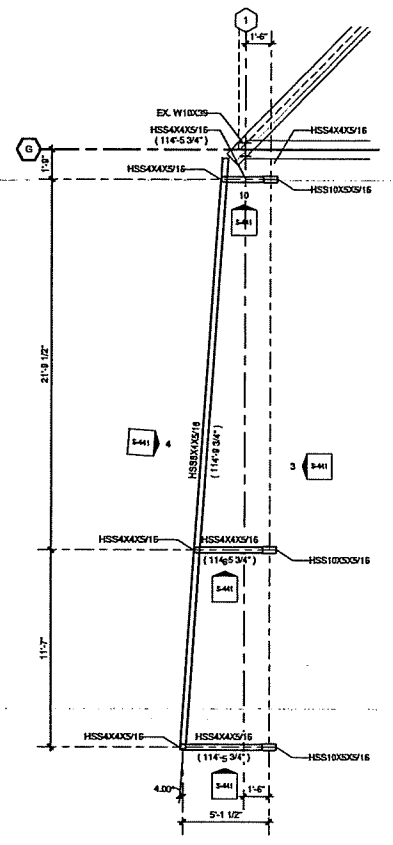
6 OVERHANG FRAMING ELEVATION
1/4" = 1'-0"



5 OVERHANG FRAMING ELEVATION
1/4" = 1'-0"



1 ENLARGED FRAMING PLAN
1/4" = 1'-0"



2 ENLARGED FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING PLAN GENERAL NOTES:

1. REFERENCE G-200 THROUGH G-209 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
8. REFER TO SHEETS S-541 AND S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
9. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - A. AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "KC" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "KC" SERIES - MINIMUM 2 1/2"
10. ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
11. BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-551. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
12. REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST.
13. CUT BRIDGING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRIDGING AND BRACING TO ORIGINAL CONDITIONS OR SJ MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
14. BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
15. NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
16. FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTION(S) TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
17. PLACEMENT OF BALLAST SHALL NOT EXCEED 12PSF.
18. VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
19. DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

KEYED NOTES

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

ISSUED 04/08/21 BID SET

CONTRACT NO: [66]
PROJECT: 435030-1000010
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: MAE
CHECKED BY: DFM

S-441

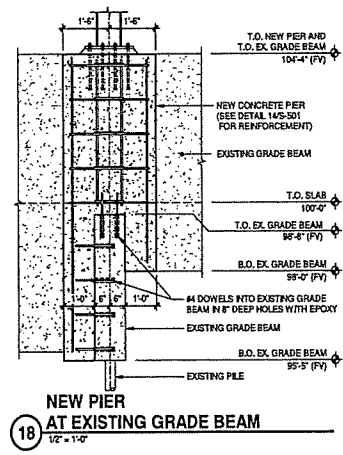
ORIGINAL - 2



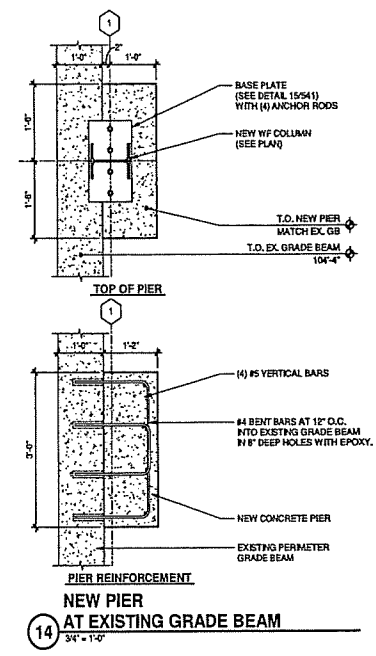
CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

CONTRACT NO. 891
MAIN NO. 4503500-100686L03
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: KRS / MAJE
CHECKED BY: DRM
50% SCALE DRAWINGS
SHEET CONTENTS
FOUNDATION
DETAILS
SHEET NO.:

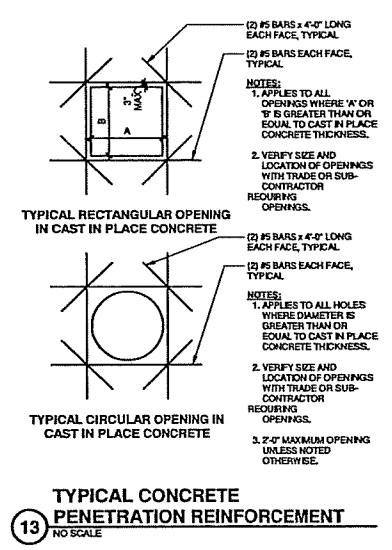
ORIGINAL - 2



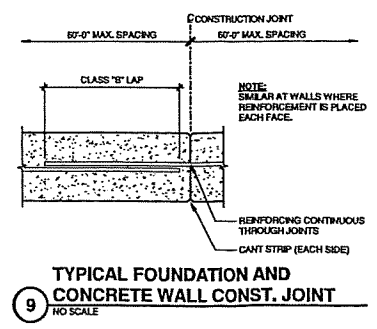
18 NEW PIER AT EXISTING GRADE BEAM
1/2" = 1'-0"



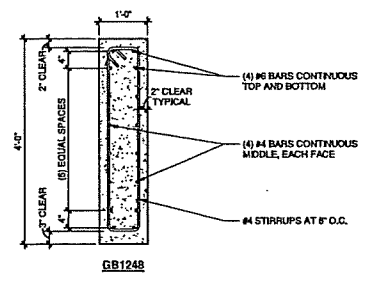
14 NEW PIER AT EXISTING GRADE BEAM
3/4" = 1'-0"



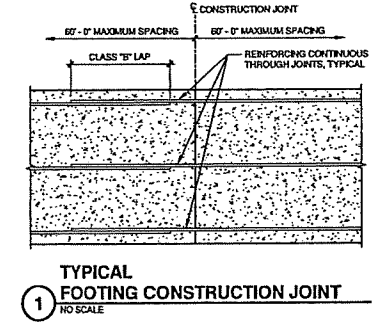
13 TYPICAL CONCRETE PENETRATION REINFORCEMENT
NO SCALE



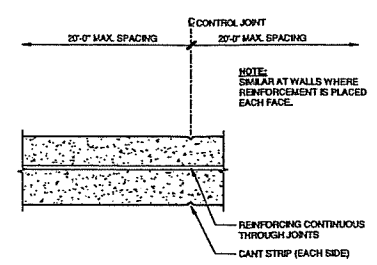
9 TYPICAL FOUNDATION AND CONCRETE WALL CONST. JOINT
NO SCALE



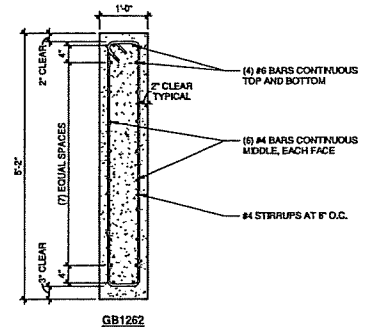
GB1248 TYPICAL GRADE BEAM



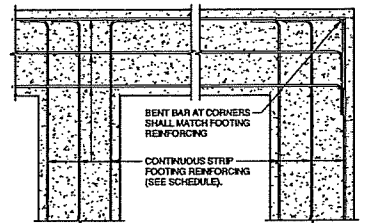
1 TYPICAL FOOTING CONSTRUCTION JOINT
NO SCALE



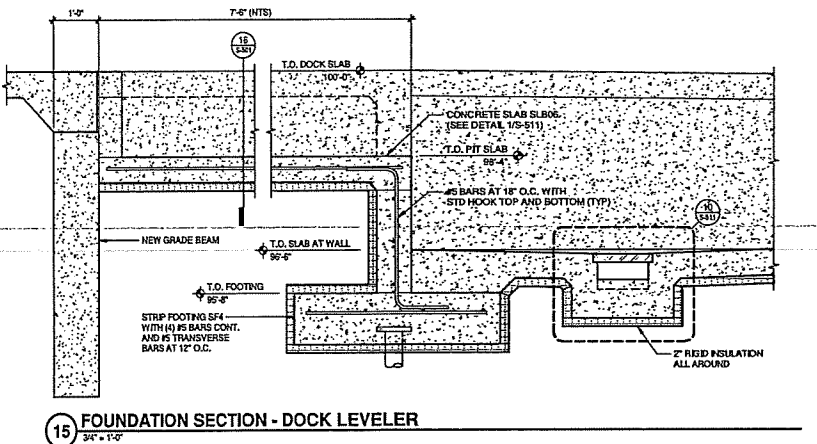
10 TYPICAL FOUNDATION AND CONCRETE WALL CONTROL JOINT
NO SCALE



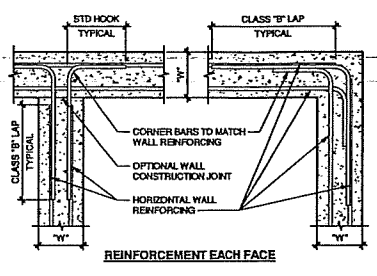
GB1262 TYPICAL GRADE BEAM



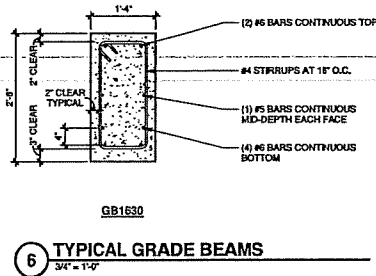
2 TYPICAL FOOTING INTERSECTIONS
NO SCALE



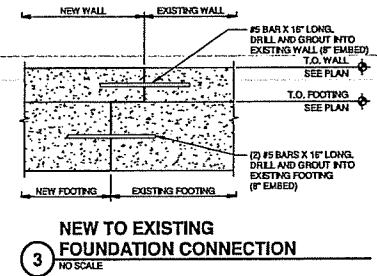
15 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



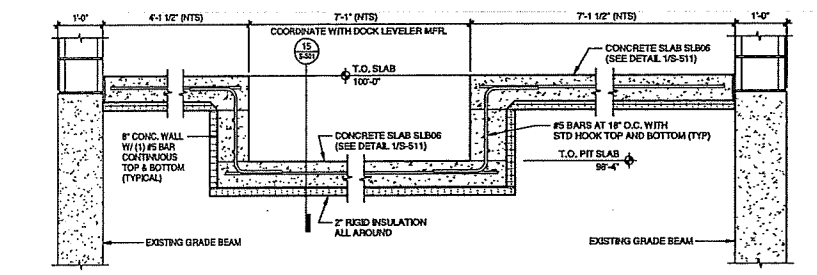
6 TYPICAL GRADE BEAMS
3/4" = 1'-0"



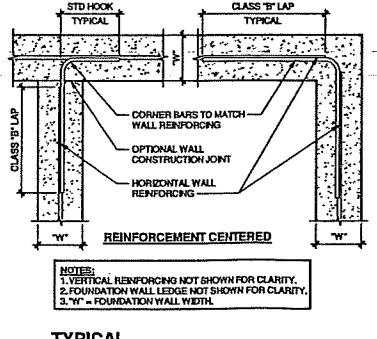
7 TYPICAL NEW TO EXISTING GRADE BEAM CONNECTION
NO SCALE



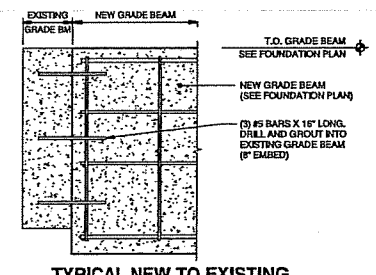
3 NEW TO EXISTING FOUNDATION CONNECTION
NO SCALE



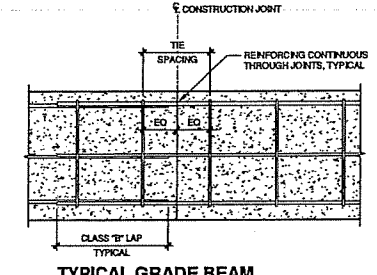
16 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



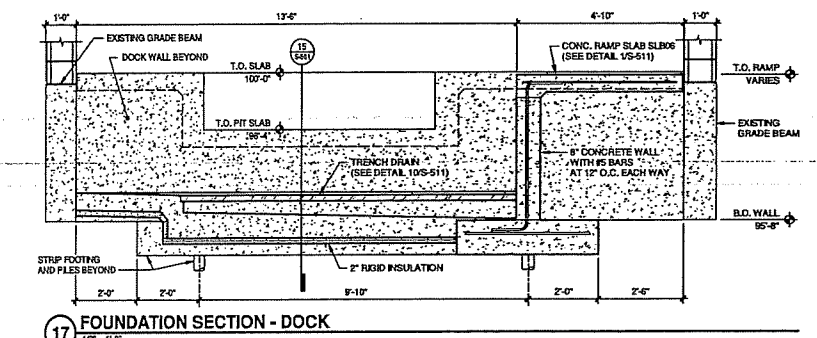
11 TYPICAL FOUNDATION WALL INTERSECTIONS
NO SCALE



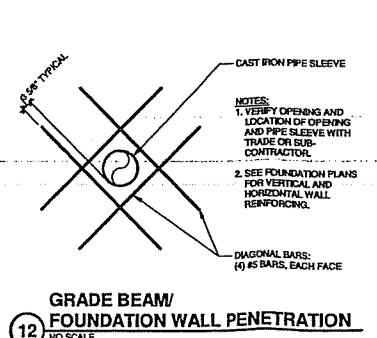
8 TYPICAL MASONRY WALL AT GRADE BEAM
3/4" = 1'-0"



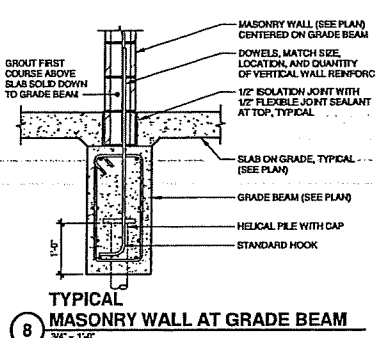
4 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE



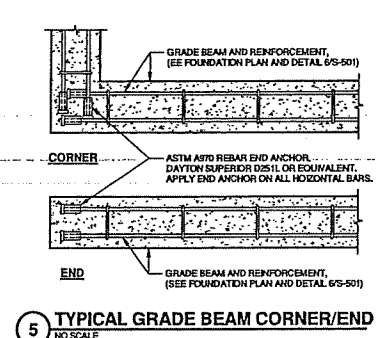
17 FOUNDATION SECTION - DOCK
1/2" = 1'-0"



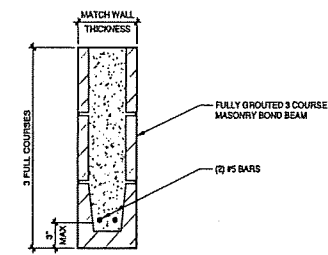
12 GRADE BEAM/FOUNDATION WALL PENETRATION
NO SCALE



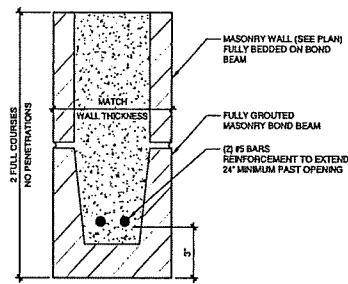
8 TYPICAL MASONRY WALL AT GRADE BEAM
3/4" = 1'-0"



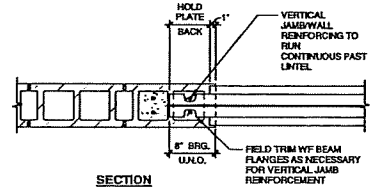
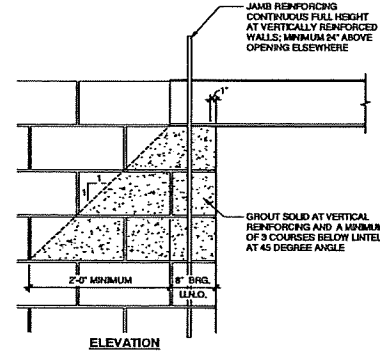
5 TYPICAL GRADE BEAM CORNER/END
NO SCALE



19 BOND BEAM LINTEL L21
1 1/2" = 1'-0"

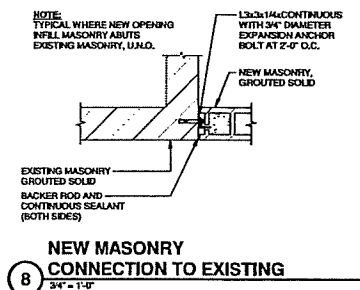


15 BOND BEAM LINTEL L20
3" = 1'-0"

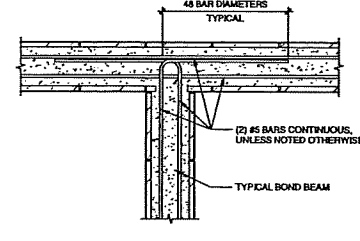


16 BOND BEAM LINTEL AT RECESSED PANEL/EQUIP
1 1/2" = 1'-0"

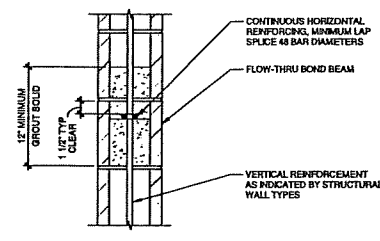
12 WF BEAM LINTEL BEARING
1" = 1'-0"



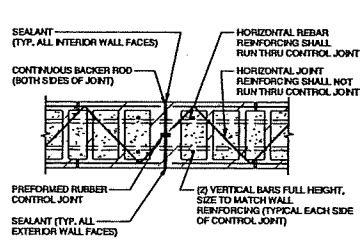
8 NEW MASONRY CONNECTION TO EXISTING
3/4" = 1'-0"



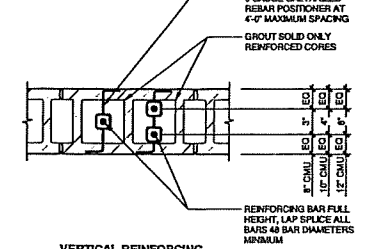
4 TYPICAL MASONRY BOND BEAM INTERSECTION
3/4" = 1'-0"



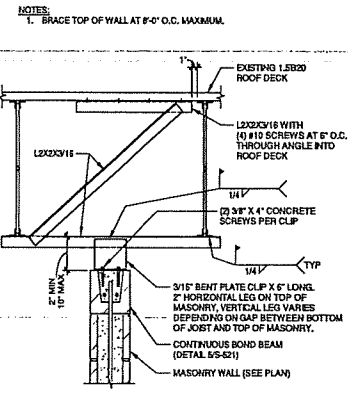
1 TYPICAL BAR PLACEMENT IN MASONRY CORE
1 1/2" = 1'-0"



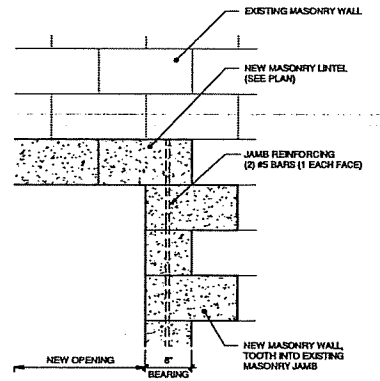
5 TYPICAL MASONRY CONTROL JOINT
1" = 1'-0"



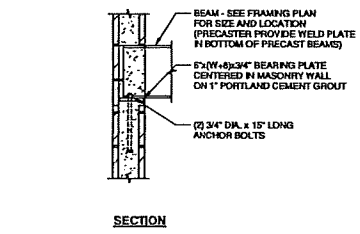
3 TYPICAL MASONRY BOND BEAM
1" = 1'-0"



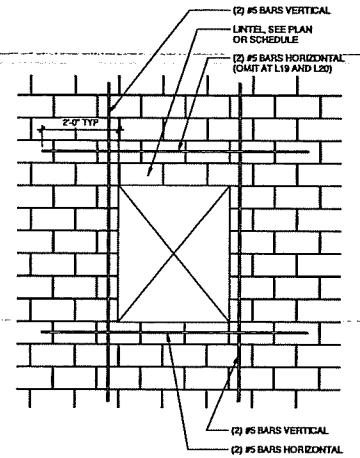
17 TYPICAL TOP OF WALL BRACING WALL PARALLEL TO JOIST
1" = 1'-0"



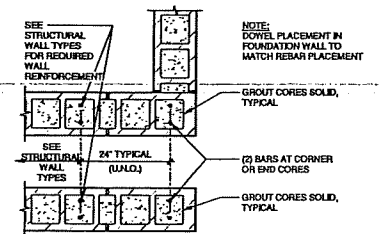
13 NEW MASONRY LINTEL AT EXISTING MASONRY WALL
1" = 1'-0"



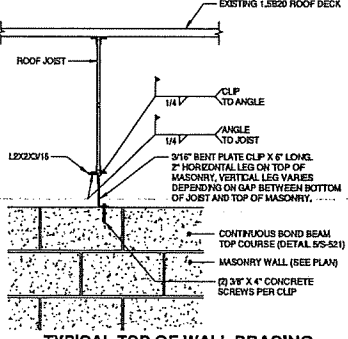
10 STEEL BEAM BEARING ON MASONRY
3/4" = 1'-0"



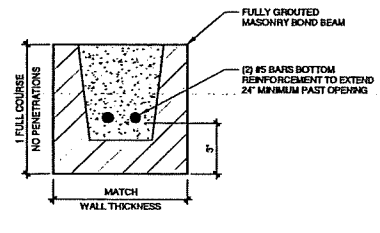
6 TYPICAL MASONRY OPENING REINFORCEMENT
1/2" = 1'-0"



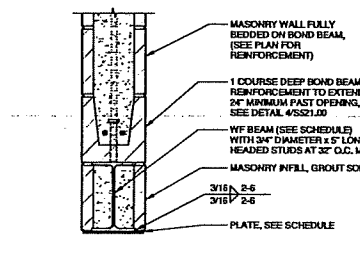
2 TYPICAL REBAR PLACEMENT IN MASONRY WALL
1" = 1'-0"



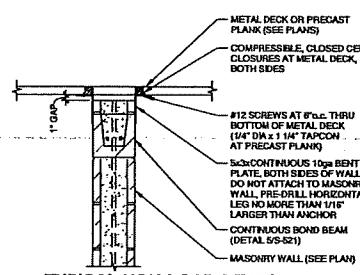
18 TYPICAL TOP OF WALL BRACING WALL PERPENDICULAR TO JOIST
1" = 1'-0"



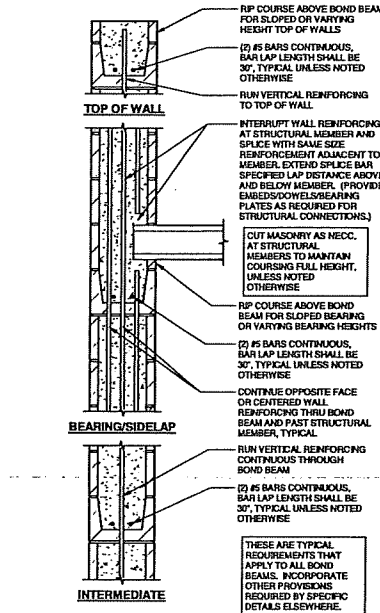
14 BOND BEAM LINTEL L19
3" = 1'-0"



11 WF BEAM LINTEL
1 1/2" = 1'-0"



7 TYPICAL NON-LOAD BEARING MASONRY WALL TOP CONNECTION
1" = 1'-0"



3 TYPICAL MASONRY BOND BEAM
1" = 1'-0"

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City of Madison
Wisconsin



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/06/21 BID SET

CONTRACT NO: 8981
DATE: APRIL 6, 2021
DESIGNED BY: D/C
DRAWN BY: N/B / M/E
CHECKED BY: D/M
SCALE: AS SHOWN

S-531

ORIGINAL-2



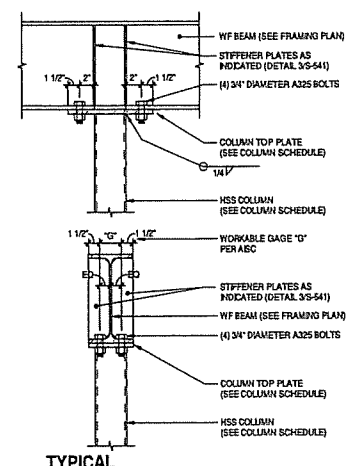
CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

040921 BID SET

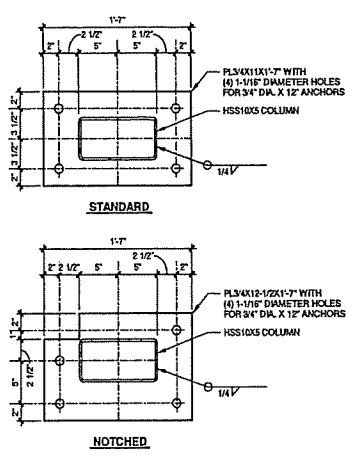
CONTRACT NO. 8981
 MAIN NO. 4.03000-10086.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DDC
 DRAWN BY: HSB/MAE
 CHECKED BY: DRM
 DO NOT SCALE DIMENSIONS
 SHEET CONTENTS
 FRAMING DETAILS

SHEET NO.:

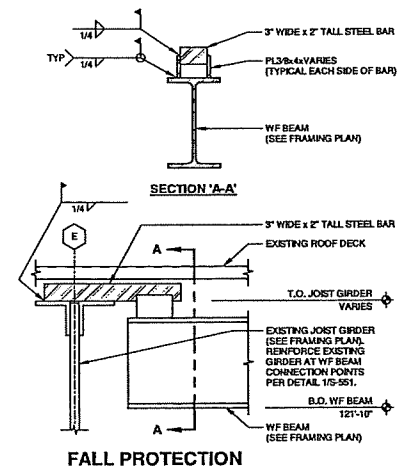
ORIGINAL - 2



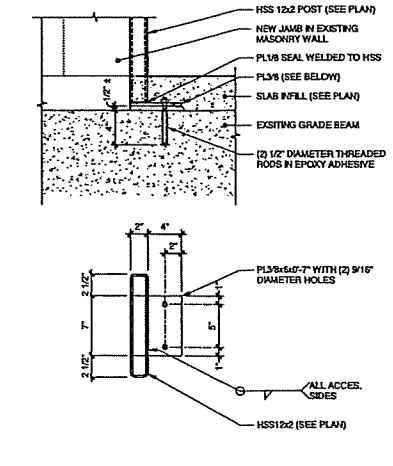
20 TYPICAL WF BEAM OVER HSS COLUMN
1 1/2\"/>



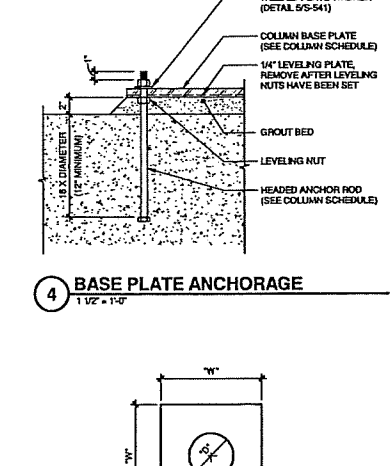
17 CANOPY COLUMN BASE PLATES
1 1/2\"/>



13 FALL PROTECTION SUPPORT FRAMING AT GIRDER
1 1/2\"/>



9 HSS 12x2 BASE PLATE
1 1/2\"/>



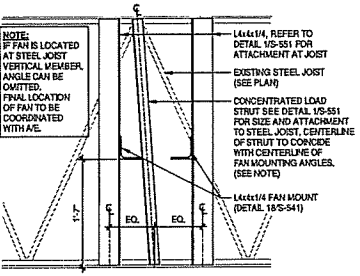
4 BASE PLATE ANCHORAGE
1 1/2\"/>

NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS (N)	LENGTH OF ANGLE
W8	2	25 1/2"
W10	3	28 1/2"
W12	4	31 1/2"
W14	5	34 1/2"
W16	6	37 1/2"
W18	7	40 1/2"
W20	8	43 1/2"
W24	10	51 1/2"

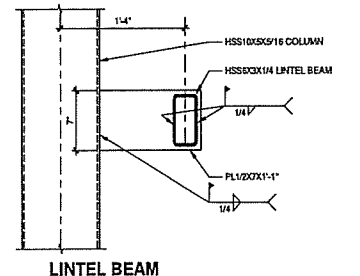
SINGLE PLATE SHEAR CONNECTION NOTES

- ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OR NOTED OTHERWISE.
- STANDARD HOLES OR NON-HORIZONTAL SHORT SLOT HOLES MAY BE UTILIZED AT CONTRACTOR'S OPTION IN EITHER THE CORNER OR ANGLE OR THE FRAMING MEMBERS.
- WELD 'A' MAY BE USED IN LIEU OF 'A' SIDE BOLTS AT CONTRACTOR'S OPTION. WELD SHALL BE ON ALL 3 SIDES.
- FOR MISS-ALIGNED BOLT HOLES, PROVIDE FIELD WELDS. NOTIFY THE ARCHITECT/ENGINEER OF LOCATIONS USING FIELD WELDED CONNECTION. REFER TO TYPICAL COPING DETAIL S-541 FOR CONNECTIONS WHERE COPING IS REQUIRED.
- THIS DETAIL IS NOT INTENDED FOR EVERY WF SECTION. CHECK RIBSING THE FILLET AND COPE DEPTH PRIOR TO FABRICATION.

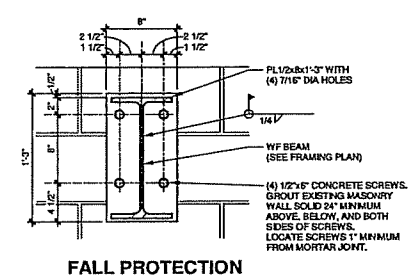
1 TYPICAL SINGLE PLATE SHEAR FRAMING CONNECTION
1\"/>



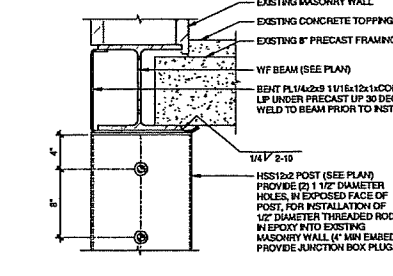
21 "NESTED" FAN CONNECTION
1\"/>



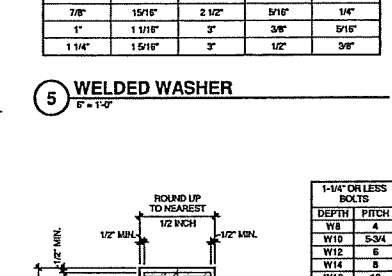
18 LINTEL BEAM CONNECTIONS TO COLUMN
1 1/2\"/>



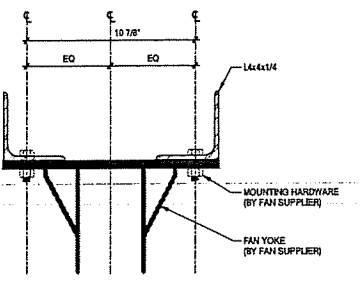
14 FALL PROTECTION SUPPORT FRAMING AT MASONRY
1 1/2\"/>



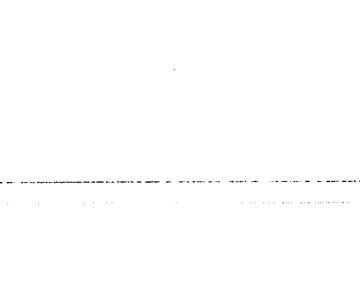
10 W10 AT EXISTING PRECAST
1 1/2\"/>



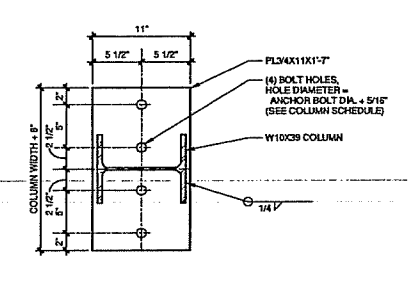
5 WELDED WASHER
1\"/>



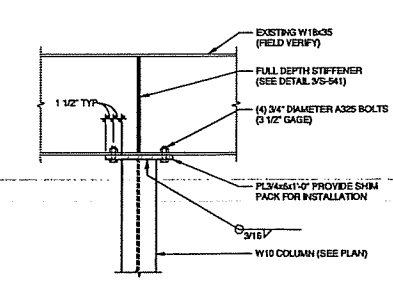
B FAN YOKE TO ANGLE CONNECTION
3\"/>



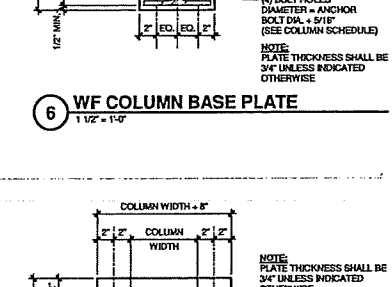
15 W10x39 BASE PLATE
1 1/2\"/>



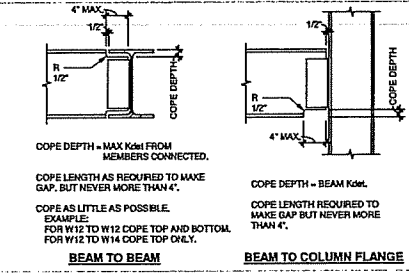
11 W10 AT EXISTING W18x35
1\"/>



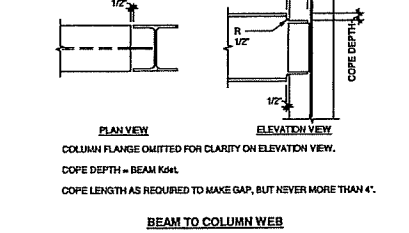
6 WF COLUMN BASE PLATE
1 1/2\"/>



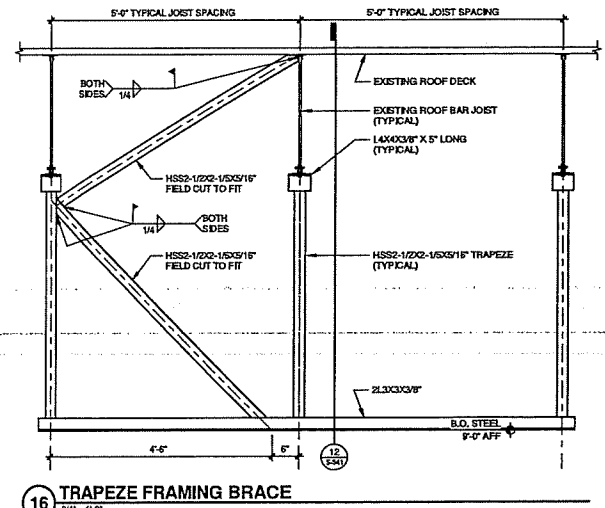
7 HSS COLUMN BASE PLATE
1 1/2\"/>



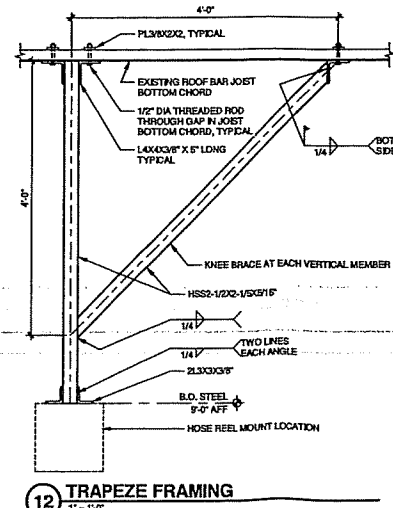
2 TYPICAL COPING DETAIL
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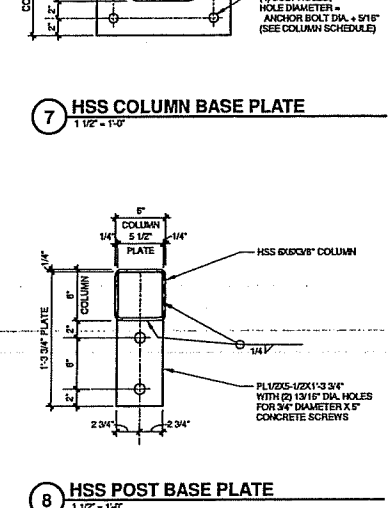
3 TYPICAL WF STIFFENER PLATE
1 1/2\"/>



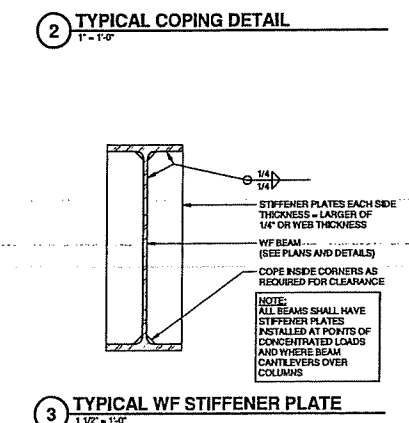
16 TRAPEZE FRAMING BRACE
3/4\"/>



12 TRAPEZE FRAMING
1\"/>

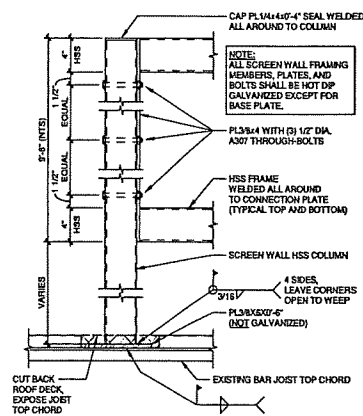


8 HSS POST BASE PLATE
1 1/2\"/>

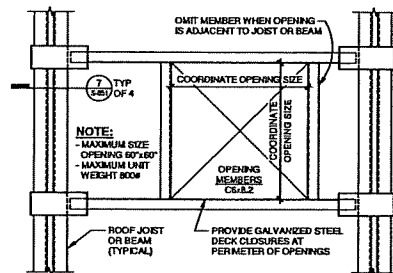


2 TYPICAL COPING DETAIL
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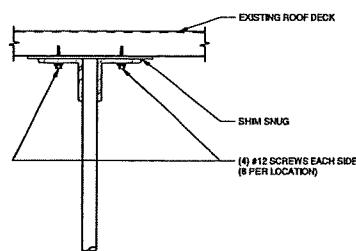
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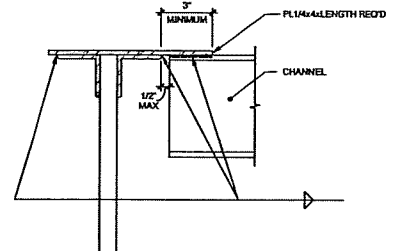
14 SCREEN WALL POST CONNECTIONS
1/2" = 1'-0"



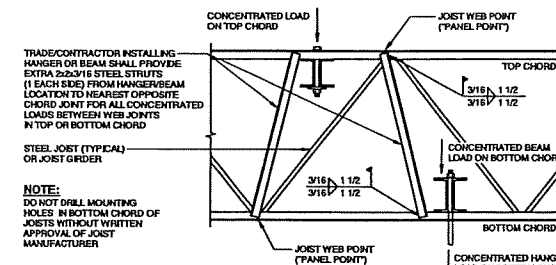
6 TYPICAL FRAMED ROOF OPENING
1" = 1'-0"



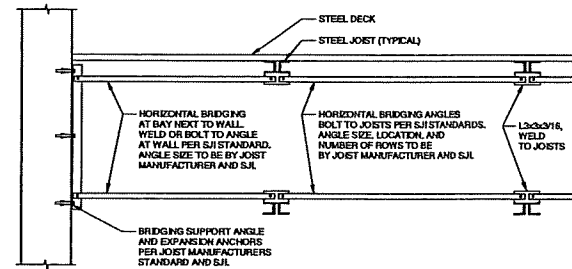
10 JOIST TO DECK CONNECTION
3" = 1'-0"



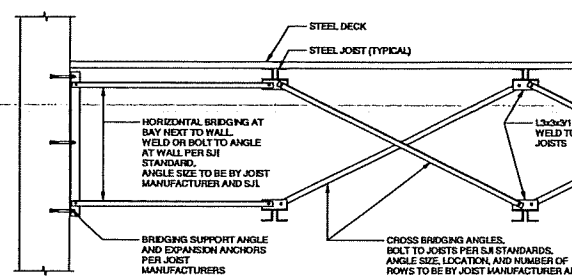
7 CHANNEL TO JOIST CONNECTION
3" = 1'-0"



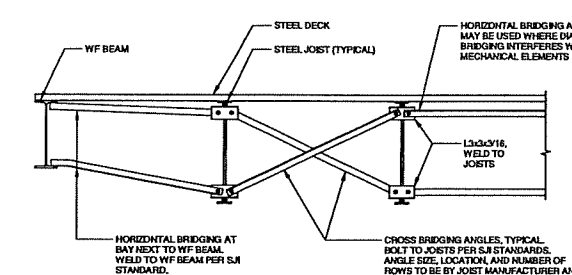
1 TYPICAL PROVISIONS AT CONCENTRATED LOADS ON OPEN WEB STEEL JOIST/GIRDERS
3/4" = 1'-0"



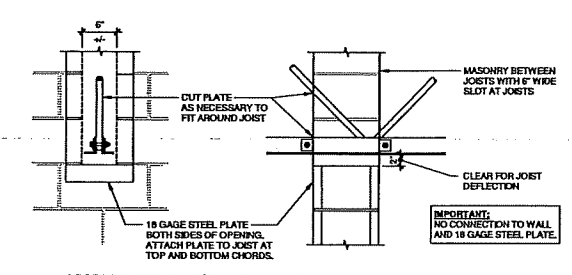
2 HORIZONTAL JOIST BRIDGING AT WALL
3/4" = 1'-0"



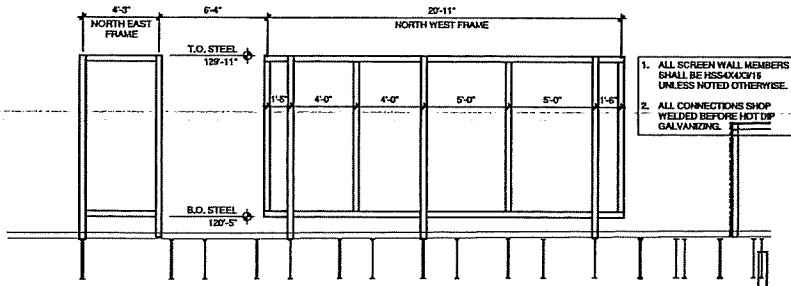
3 DIAGONAL JOIST BRIDGING AT WALL
3/4" = 1'-0"



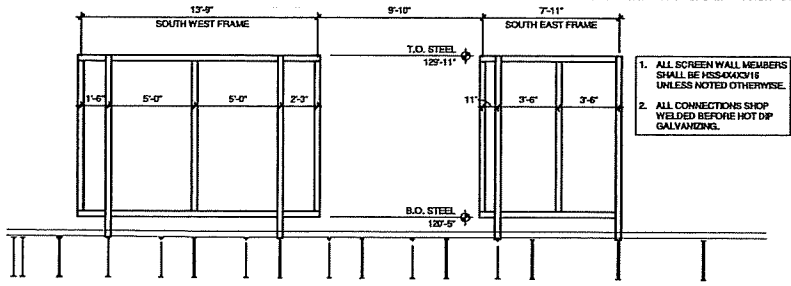
4 JOIST BRIDGING AT WF BEAM
3/4" = 1'-0"



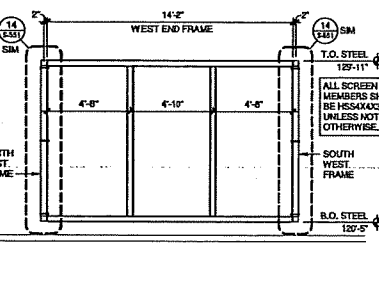
5 JOIST DEFLECTION PROVISIONS AT NON-LOAD BEARING MASONRY, TYPICAL
1" = 1'-0"



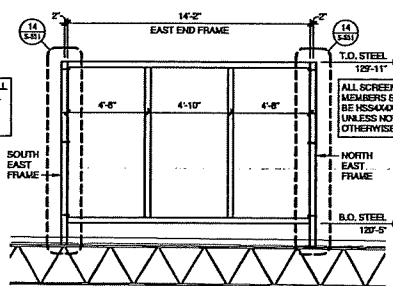
11 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING SOUTH)
1/4" = 1'-0"



12 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING NORTH)
1/4" = 1'-0"



13 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING EAST)
1/4" = 1'-0"



8 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING WEST)
1/4" = 1'-0"

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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

CONTRACT NO: 0981
SHEET NO: 450300-1-0099(2)
DATE: APRIL 8, 2021
DESIGNED BY: DCC
DRAWN BY: NAB/MAE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS

S-551

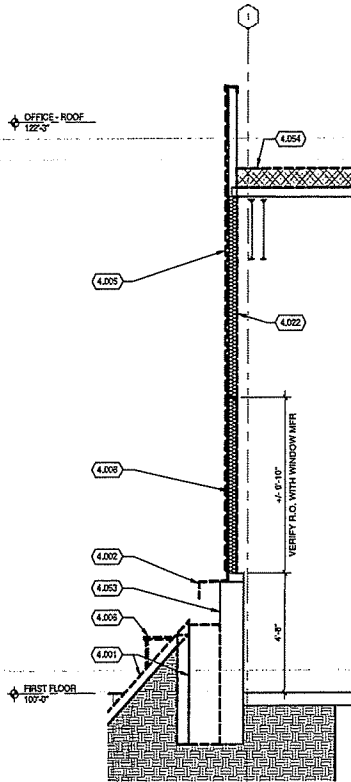
016 mlt-2

DEMOLITION PLAN GENERAL NOTES:

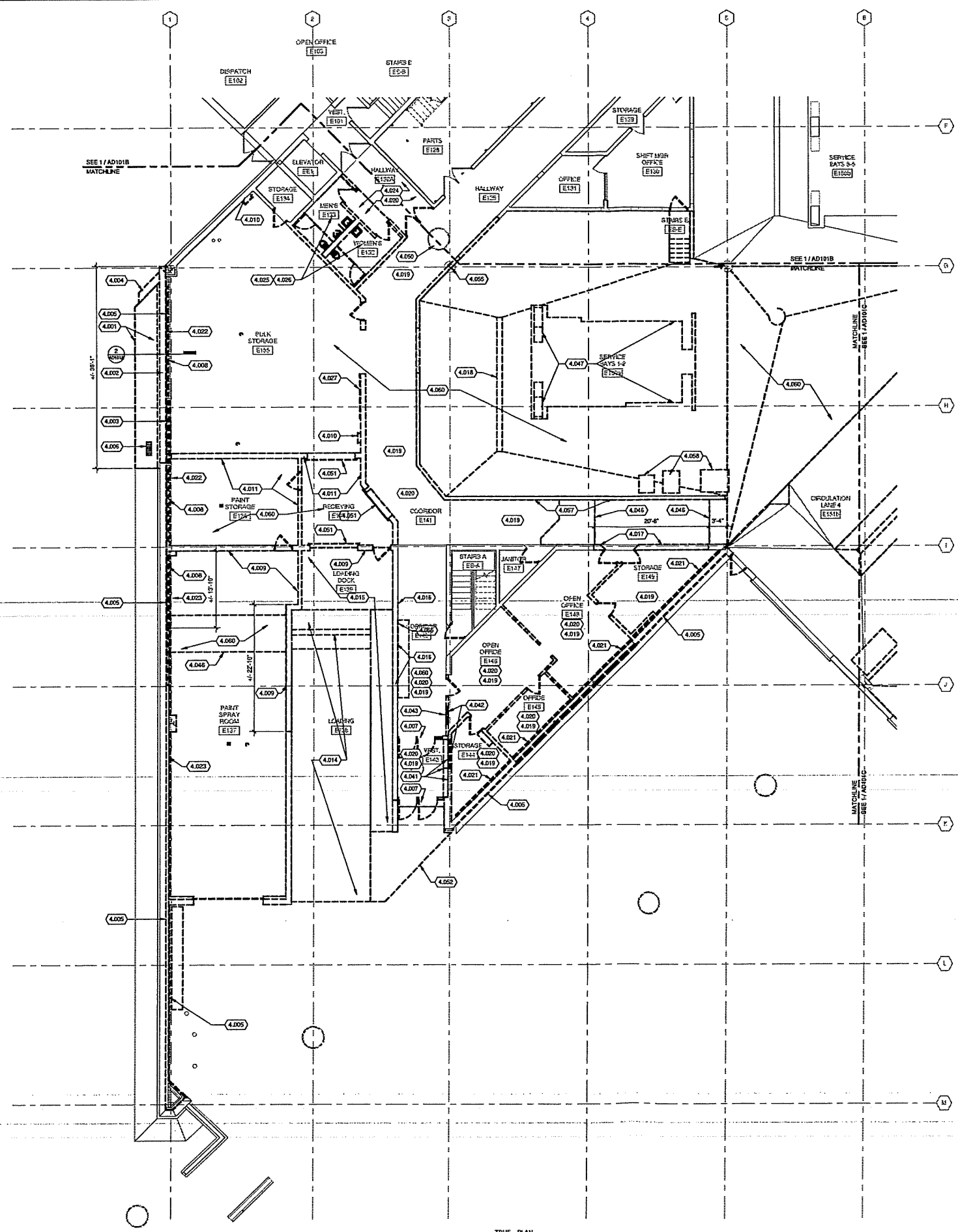
1. THE GENERAL CONTRACTOR SHALL VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH SCHEDULED DEMOLITION WORK.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND ALL SUBCONTRACTORS FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVEYS, SIGNAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DISPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PLASTER, BEAMS, AND SLABS.
6. EXISTING EXTERIOR WALL STRUCTURE CONSISTS OF METAL PANEL OVER METAL STUDS THAT SIT ON AN ELEVATED GRADE BEAM WITH A TOTAL HEIGHT OF 4'-2 1/2" ±.
7. EXISTING INTERIOR WALLS IN THE WORK AREAS ARE TYPICALLY CMU CONSTRUCTION THAT EXTEND TO THE ROOF DECK AT 22'-0" TALL. LIMITED CMU PARTITIONS STAND AT 12'-4".
8. SECOND STORIES AND MEZZANINE CONSIST OF PRECAST PLANK - USE CAUTION WITH REMOVALS AND CORING TO PREVENT DAMAGE TO THEIR STRUCTURAL INTEGRITY. REF STRUCTURAL.
9. THE EXISTING MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED FOR FULL REPLACEMENT WITH THE WORK AREAS. FOR AREAS OUTSIDE OF THE WORK AREAS, SYSTEMS ARE TO REMAIN AND RECONNECTED TO NEW SERVICES IN THE AREAS OUTSIDE OF THE WORK AREAS. SEE SPECIFIC DISCIPLINE SHEETS FOR COORDINATION.
10. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS. REF: STRUCTURAL, EQUIPMENT, ELECTRICAL, AND PLUMBING DRAWINGS.
11. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
12. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILINGS, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACE MATERIAL SHALL MATCH IN KIND.
13. COORDINATE WITH OWNER-CONTRACTED ASBESTOS ABATEMENT CONTRACTOR FOR REMOVAL OF SEALANTS CONTAINING ASBESTOS.
14. REFERENCE SHEET A-001 NOTES & SYMBOLS FOR DEMOLITION LEGEND.
15. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING / SEQUENCING AND SITE ACCESS.
16. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

DEMOLITION LEGEND:

- EXISTING CONSTRUCTION TO REMAIN
- - - EXISTING CONSTRUCTION TO BE DEMOLISHED, TYP (UNLD.)
- ⌞ EXISTING DOOR TO REMAIN
- ⌘ DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (UNLD.)



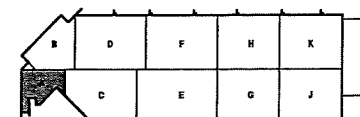
2 DEMOLITION WALL SECTION
3/8" = 1'-0"



FIRST FLOOR DEMOLITION PLAN - AREA A
1/8" = 1'-0"

KEYED NOTES

- 4.001 SAWCUT AND REMOVE PORTION OF SLOPED CONCRETE BARRIER WALL WITH GRAVEL INFILL AT ENTRY LOCATION. USE CAUTION TO NOT DAMAGE ADJACENT CONCRETE GRADE BEAM. PROVIDE SHORING AT END OF WALL FOR REPLACEMENT END CAP.
- 4.002 SAWCUT AND REMOVE PORTION OF BENT PLATE AT ENTRY DOOR TO THE PLANT NORTH CORNER.
- 4.003 SAWCUT AND REMOVE PORTION OF WALL AND GRADE BEAM - REF PLAN SHEETS.
- 4.004 SAWCUT AND REMOVE BRICK WALL IN ITS ENTIRETY. CUT FOUNDATION WALL 6" BELOW GRADE FOR CIVIL WORK. USE CAUTION TO NOT DAMAGE BRICK VENEER WALL TO REMAIN.
- 4.005 REMOVE METAL PANELS BY FULL SECTIONS TO VERTICAL JOINT OVER EXISTING WALL FRAMING AND CONCRETE GRADE BEAM TO REMAIN. METAL PANEL MASTIC CONTAINS ASBESTOS. COORDINATE WITH ASBESTOS REMOVAL CONTRACTOR BY SEPARATE CONTRACT.
- 4.006 REMOVE AND SALVAGE METAL STEP FOR RELOCATION AT NEW SERVICE ENTRY LOCATION.
- 4.007 REMOVE DOOR VESTIBULE STOREFRONT, DOOR, AND FRAME.
- 4.008 REMOVE PORTION OF WALL FOR WINDOW OPENINGS - REF PLAN SHEETS.
- 4.009 REMOVE PORTION OF STRUCTURAL WALL UP TO 17'-0" AFF. PROVIDE ADEQUATE SHORING TO PREVENT DAMAGE TO STRUCTURE. SEE STRUCTURAL FOR DETAILS.
- 4.010 REMOVE LADDER AND ASSOCIATED FASTENERS.
- 4.011 REMOVE WALLS AND ASSOCIATED PRECAST MEZZANINE COMPLETE.
- 4.012 REMOVE WATER AND FIRE PROTECTION SERVICE ENTRY PIPING AND CAP FOR RELOCATION. SEE PLUMBING.
- 4.013 CORE DRILL SLOPED CONCRETE BASE AND GRADE BEAM FOR RELOCATED WATER SERVICE ENTRY. SEE PLUMBING.
- 4.014 REMOVE SLOPED CONCRETE LOADING DOCK DRIVE, TRENCH DRAIN, AND SERVER CAP - REF CIVIL AND STRUCTURAL.
- 4.015 REMOVE LOADING DOCK CONCRETE LANDINGS, RAILINGS, DOCK LEVELER, AND BUMPERS COMPLETE.
- 4.016 REMOVE PORTION OF WALL FOR NEW OPENING. PROVIDE SHORING TO PREVENT DAMAGE TO ADJACENT STRUCTURE.
- 4.017 REMOVE PORTION OF STRUCTURAL WALL. PROVIDE ADEQUATE SHORING TO PREVENT DAMAGE TO STRUCTURE. SEE STRUCTURAL FOR DETAILS.
- 4.018 REMOVE TRENCH DRAIN COMPLETE AND CAP PIPING - REF PLUMBING.
- 4.019 REMOVE VINYL TILE FLOOR COMPLETE.
- 4.020 REMOVE ACOUSTIC TILE CEILING AND GRID COMPLETE.
- 4.021 REMOVE GYP WALL FURRING AT PRIMARY WALL STRUCTURE TO REMAIN.
- 4.022 REMOVE INTERIOR GYPSUM PANEL AND ANY INTERIOR INSULATION AT THE FULL EXTENT OF WEST WALL IN ROOM. EXISTING METAL STUDS TO REMAIN.
- 4.023 REMOVE INTERIOR METAL PANEL AND INSULATION FULL HEIGHT. SALVAGE PANELS FROM FOR REINSTALLATION IN WATER SERVICE ENTRY AND TIRE ROOM.
- 4.024 REMOVE RUBBER SHEET FLOORING COMPLETE.
- 4.025 REMOVE TOILET ROOMS WALLS, PORCELAIN TILE FLOOR & BASE, PLUMBING FIXTURES, PARTITIONS, LOCKERS, AND ACCESSORIES COMPLETE FOR NEW CONFIGURATION. CAP PLUMBING AT REMOVED FIXTURES. CUT CONCRETE FLOOR FOR NEW FIXTURES - REF LAYOUT DRAWINGS.
- 4.026 REMOVE PRECAST LID OVER TOILET ROOMS.
- 4.027 REMOVE SLIDING DOOR AND ASSOCIATED HARDWARE.
- 4.041 REMOVE COUNTERSHELF, DISPLAY CASE AND TACK BOARD.
- 4.042 REMOVE ALUMINUM WINDOW AND FRAME COMPLETE.
- 4.043 REMOVE TV DISPLAY CASE AND ALL ASSOCIATED EQUIPMENT. SALVAGE ELECTRONIC EQUIPMENT AND BRACKETS TO OWNER.
- 4.046 REMOVE CONCRETE FLOOR REQUIRED TO INSTALL NEW CMU WALL - SEE STRUCTURAL.
- 4.047 REMOVE EQUIPMENT LIFTS AND FOUNDATIONS.
- 4.050 CATCH BASIN TO REMAIN. SEE PLUMBING DRAWINGS.
- 4.051 REMOVE OVERHEAD DOOR, RAILS, AND MOTORS, COMPLETE.
- 4.052 REMOVE CONCRETE SLAB.
- 4.053 EXISTING GRADE BEAM TO REMAIN INTACT.
- 4.054 REMOVE PORTION OF ROOFING AND INSULATION SYSTEM DOWN TO DECK FOR STRUCTURAL REINFORCEMENT AT OVERHANG AREA. WORK SHALL BE COMPLIANT TO MAINTAIN ROOF WARRANTY.
- 4.055 PROTECT EXISTING COLUMN AT WALL REMOVAL, TYP.
- 4.056 REMOVE COUNTERTOP COMPLETE.
- 4.057 REMOVE MULTIPLE TACK BOARDS AND SALVAGE TO OWNER.
- 4.058 EQUIPMENT REMOVAL - REF Q-SHEETS FOR SCOPE OF WORK.
- 4.060 REMOVE PORTION OF SLAB TO ACCOMMODATE NEW LAYOUT AND INFRASTRUCTURE - REF STRUCTURAL.



KEY PLAN

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Madison, WI 53762
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CITY OF MADISON WISCONSIN

metro transit

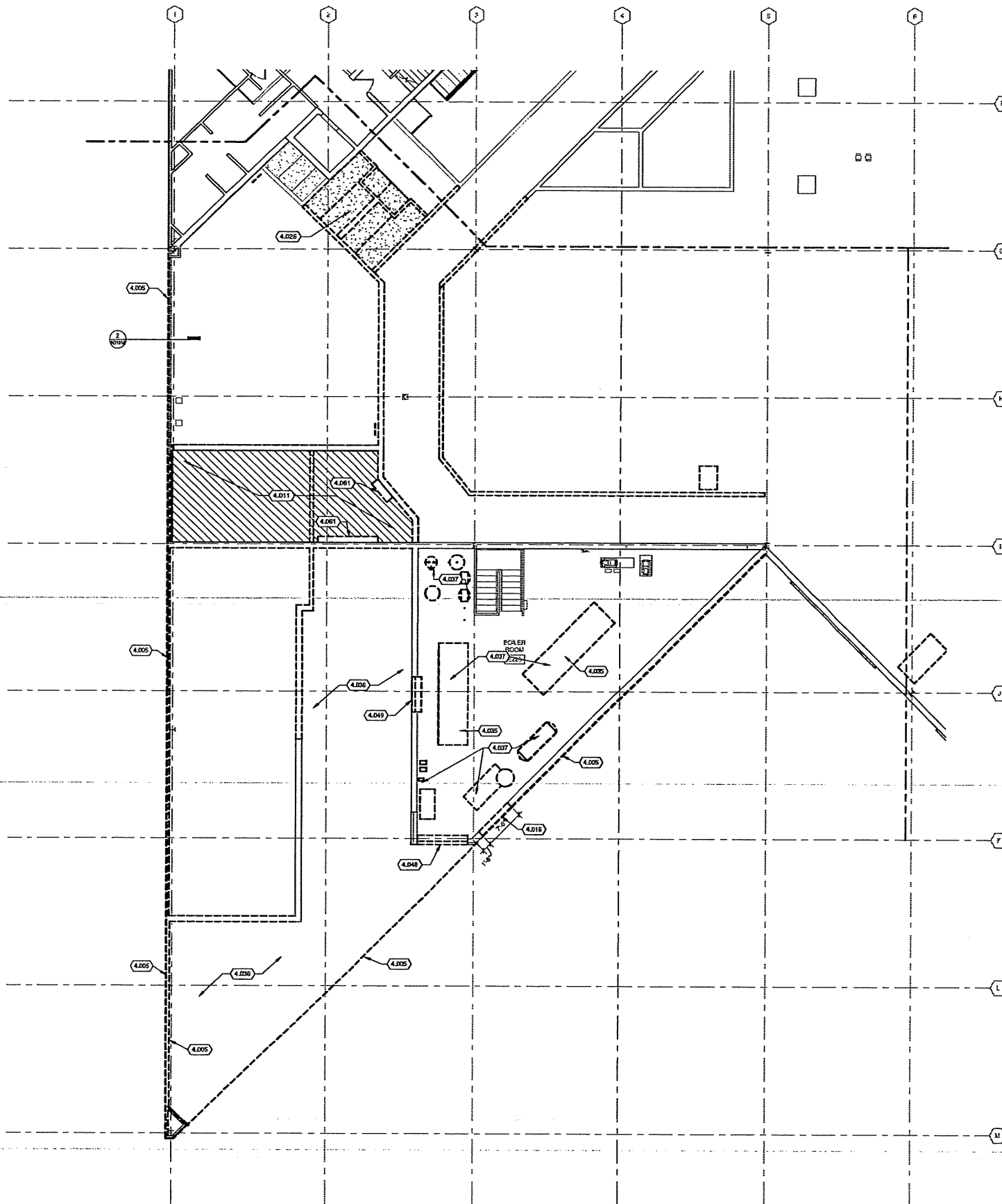
**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

SHEET NO: **AD101A**
 CONTRACT NO: 8981
 PLAN NO: 4503300-13036.L03
 DATE: APRIL 8, 2021
 DESIGNED BY: SK
 DRAWN BY: NLD, DBA
 CHECKED BY: RCL, REK
 1/8" NOT SCALE DRAWINGS
 SHEET CONTAINS
**FIRST FLOOR
DEMOLITION PLAN -
AREA A**
 SHEET NO:

ORIGINAL - 2

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ORIGINAL - 2



DEMOLITION PLAN GENERAL NOTES:

1. THE GENERAL CONTRACTOR SHALL VERIFY BUILDING AND SITE CONDITIONS AND REPORT DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH SCHEDULED DEMOLITION WORK.
2. THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING WORK AND ALL SUBCONTRACTORS FOR DEMOLITION AND REPAIR WORK.
3. IT IS THE INTENT OF THESE DRAWINGS TO INDICATE THE REMOVAL OF ITEMS WHICH INTERFERE WITH THE FINAL CONSTRUCTION AS SHOWN ON THE FLOOR PLANS, ELEVATIONS, DETAILS, AND SCHEDULES. FLOOR FINISHES, BASE, ABANDONED FURNITURE, WINDOW TREATMENTS, SHELVING, SIGNAGE, AND ROOFING MATERIALS SHALL BE DEMOLISHED IN THEIR ENTIRETY.
4. REMOVE ITEMS OF DEMOLITION WORK FROM THE PROJECT DAILY AND DISPOSE OF PROPERLY.
5. EXISTING CONCRETE AND STEEL STRUCTURE TO REMAIN, TYP. PROTECT COLUMNS, PLASTERS, BEAMS, AND SLABS.
6. EXISTING EXTERIOR WALL STRUCTURE CONSISTS OF METAL PANEL OVER METAL STUDS THAT SIT ON AN ELEVATED GRADE BEAM WITH A TOTAL HEIGHT OF 4'-2 1/2"."
7. EXISTING INTERIOR WALLS IN THE WORK AREAS ARE TYPICALLY CMU CONSTRUCTION THAT EXTEND TO THE ROOF DECK AT 22'-3" TALL. LIMITED CMU PARTITIONS STAND AT 12'-4"."
8. SECOND STORIES AND MEZZANINE CONSIST OF PRECAST PLANK - USE CAUTION WITH REMOVALS AND CORING TO PREVENT DAMAGE TO THEIR STRUCTURAL INTEGRITY. REF STRUCTURAL.
9. THE EXISTING MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING ITEMS AND/OR SYSTEMS, AND GAS, WATER AND ELECTRICAL METERS ARE GENERALLY INTENDED FOR FULL REPLACEMENT WITHIN THE WORK AREAS. FOR AREAS OUTSIDE OF THE WORK AREAS, SYSTEMS ARE TO REMAIN AND RECONNECTED TO NEW SERVICES IN THE AREAS OUTSIDE OF THE WORK AREAS. SEE SPECIFIC DISCIPLINE SHEETS FOR COORDINATION.
10. DEMOLISH CONCRETE FLOOR SLABS AS REQUIRED TO INSTALL NEW EQUIPMENT, UNDERGROUND CONDUIT, PLUMBING SYSTEMS, AND FLOOR DRAINS. REF: STRUCTURAL, EQUIPMENT, ELECTRICAL, AND PLUMBING DRAWINGS.
11. PROTECT EXISTING SURFACES TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
12. REPAIR OR REPLACE EXISTING CONSTRUCTION (WINDOWS, WALLS, DOORS, CEILING, FLOORS, ETC.) TO REMAIN WHICH ARE DAMAGED DURING CONSTRUCTION. REPLACEMENT MATERIAL SHALL MATCH IN KIND.

DEMOLITION LEGEND - ASBESTOS ABATEMENT

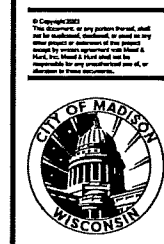
14. REFER TO SHEET 04-100 FOR ASBESTOS ABATEMENT REQUIREMENTS.
15. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING / SEQUENCING AND MEP FOR SPECIFIC REQUIREMENTS.
16. REFER TO SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

- DOOR, FRAME, AND HARDWARE TO BE DEMOLISHED COMPLETE, TYP (UNL.G.)

KEYED NOTES

- 4.005 REMOVE METAL PANELS BY FULL SECTIONS TO VERTICAL JOINT OVER EXISTING WALL FRAMING AND CONCRETE GRADE BEAM TO REMAIN. METAL PANEL MASTIC CONTAINS ASBESTOS. COORDINATE WITH ASBESTOS REMOVAL CONTRACTOR BY SEPARATE CONTRACT.
- 4.011 REMOVE WALLS AND ASSOCIATED PRECAST MEZZANINE COMPLETE
- 4.016 REMOVE PORTION OF WALL FOR NEW OPENING. PROVIDE SHORING TO PREVENT DAMAGE TO ADJACENT STRUCTURE
- 4.026 REMOVE PRECAST LID OVER TOILET ROOMS
- 4.028 REMOVE CONCRETE EQUIPMENT PADS - GRIND FOR SMOOTH FLOOR PATCH TRANSITION
- 4.026 REMOVE PLASTER SOFFIT COMPLETE
- 4.027 REMOVE EQUIPMENT FOR REPLACEMENTS, TYP - REF G-101 FOR SEQUENCING AND MEP FOR SPECIFIC REQUIREMENTS.
- 4.048 REMOVE MECHANICAL LOUVER, INSTALL NEW LOUVER IN SAME OPENING
- 4.049 REMOVE MECHANICAL LOUVER, INFILL CMU TO MATCH WALL CONDITION
- 4.061 SOLAR COLLECTORS TO BE REMOVED BY THE CITY. SEE G-101 FOR CONSTRUCTION SEQUENCING REQUIREMENTS.

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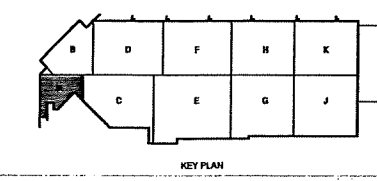
CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/08/21 BID SET

CONTRACT NO: 6981
 DRAWING NO: 4555000-10000000
 DATE: APRIL 8, 2021
 DESIGNED BY: SDK
 DRAWN BY: NLD, DJM
 CHECKED BY: RCL, REK
 SHEET COMPLETION: 02 MAY 2021 09:45 AM

SHEET COMPLETION: SECOND FLOOR DEMOLITION PLAN - AREA A

AD102A



TRUE PLAN NORTH NORTH
1 SECOND FLOOR DEMOLITION PLAN - AREA A
 1/8" = 1'-0"

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ORIGINAL - 2






FLOOR FINISH GENERAL NOTES:

1. REFER TO FINISH SCHEDULE, SHEET 1401 FOR MATERIAL SELECTION AND COLOR.
2. REFER TO SHEET 1401 FOR "INTERIORS FINISH" ABBREVIATIONS.
3. REFER TO ROOM FINISH SCHEDULE, SHEET 1401 FOR ALL ROOM FINISHES NOT NOTED ON PLAN.
4. SEE "ARCHITECTURAL FINISH LIST" IN SPECIFICATIONS FOR MATERIAL INFORMATION.
5. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR IN CLOSED POSITION U.N.D. REFER TO SHEET 1401 FOR FLOORING PATTERN PLAN AND FLOORING TRANSITIONS. REFER TO SHEET 1401 FOR TYPICAL TRANSITION DETAILS.
6. ALL CONCRETE FLOORS NOT TO RECEIVE ADDITIONAL FINISH SHALL BE SEALED, U.N.D.

KEYED NOTES

4.T07 BASE COVE DETAIL SEE 01501

FLOORING PATTERN LEGEND:

-  RFT-1 (COLOR 5320)
-  RFT-1 (COLOR 5316)
-  RFT-1 (COLOR 5308)
-  QT-1 GROUT IN GR-2
-  FLOOR MATERIAL TRANSITION - SEE

Mead & Hunt

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DESTREE
architecture & design

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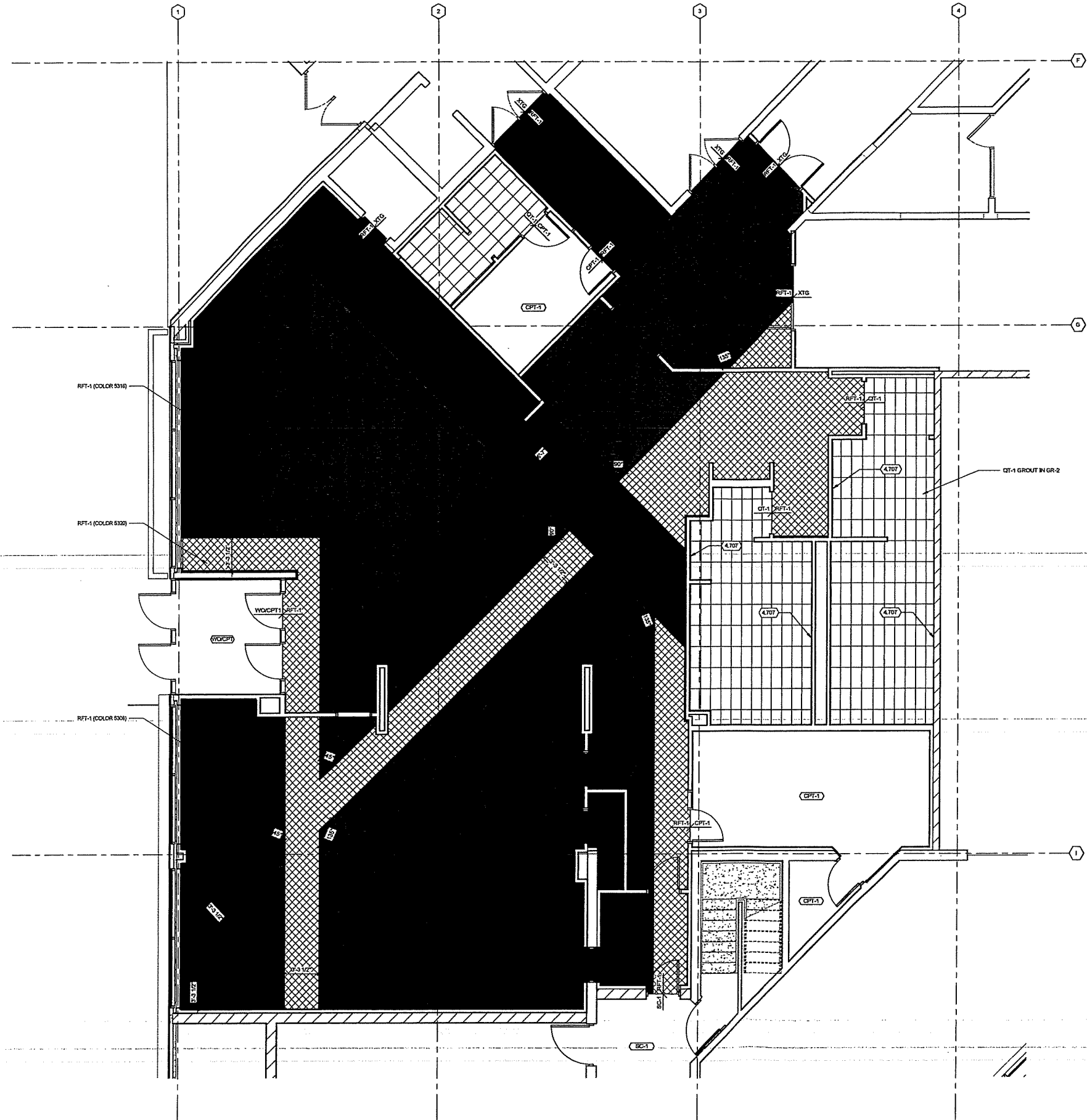
**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS**
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

ISSUE: 04/08/21 BID SET

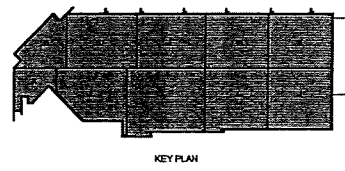
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DATE: APRIL 8, 2021
DESIGNED BY: GSK
DRAWN BY: NJO, DJM
CHECKED BY: RCL, REK
DO NOT SCALE DRAWINGS

SHEET CONTENTS
FLOORING PATTERN PLAN

SHEET NO.: **I-401**



1 FIRST FLOOR PATTERN PLAN - AREA A
1/4" = 1'-0"



KEY PLAN

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

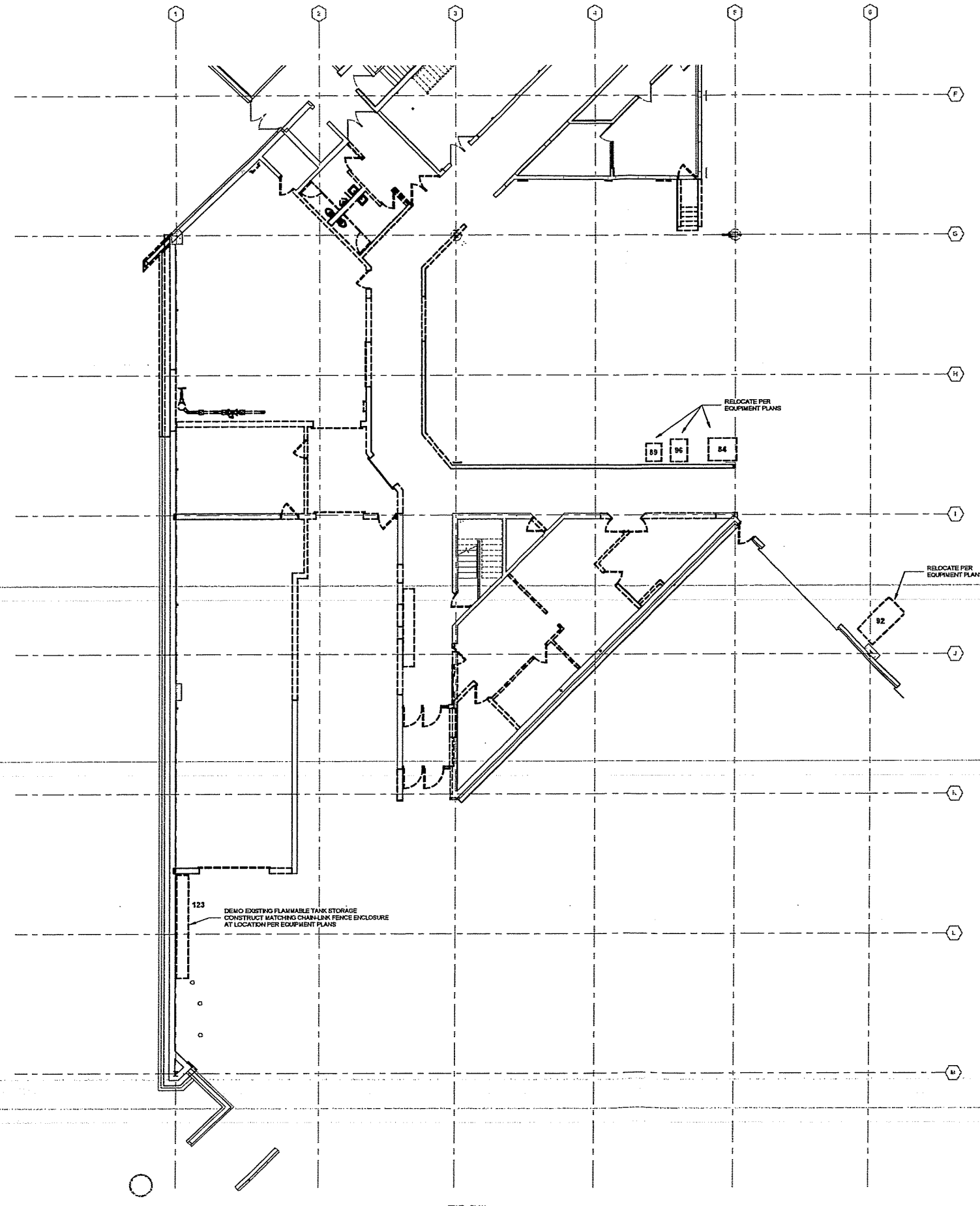
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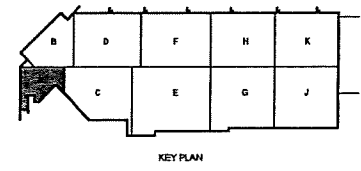
SHEET CONTENTS:
FIRST FLOOR
DEMOLITION PLAN -
AREA A

SHEET NO:
QD101A

ORIGINAL - 2



EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
82	Rim Clamp Tire Machine	1	X	X		
86	Deck 67W x 30D	3	X	X	X	X
88	Tire Cage	1	X	X		
89	2-Tier Locker - 12x15x 76"	6			X	X
90	Tool Cabinet	30	X	X		
91	Work Bench 54W x 3-4FT x 3-4FH	18			X	X
94	Screw Washer 8W-37	9			X	X
95	Oil King 25 gal Used-Oil Receiver	11			X	X
96	Tool Cabinet	1	X	X		
97	Battery Charging Bench	1	X	X	X	X
98	Battery Charging Bench	1	X	X		
99	Pallet Storage Floor Space	1	X	X		
100	Pallet Storage Floor Space	1	X	X		
104	Used Oil Tank	1	X	X		
105	Bulk Fluid Storage Tank #1	1	X	X		
106	Bulk Fluid Storage Tank #2	1	X	X		
107	Dumping Hopper	1	X	X		
108	Baler	1	X	X		
109	Oil Filter Crusher	1	X	X		
110	Bulk Fluid Storage Tank #3	1	X	X		
111	Rack Shelving - 3D x 10W x 8H	3	X	X		
112	Rack Shelving - 3D x 10W x 8H	1	X	X		
113	Rack Shelving - 3D x 10W x 8H	2	X	X		
114	Tire Machine	1	X	X		
115	Flammable Tank Storage	1	X	X	X	X
116	Oil Filter	1	X	X		
117	Horizontal Band Saw	1	X	X		
118	Tire Chisel	1			X	X
119	Pack Canister	1			X	X
120	ECCO-10	1			X	X
121	ECCO-10	1			X	X
122	ECCO-10	1			X	X
123	ECCO-10	1			X	X
124	ECCO-10	1			X	X
125	ECCO-10	1			X	X
126	ECCO-10	1			X	X
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132-22	ECCO-17	1			X	X
133-13	ECCO-60 Control Console	1			X	X
133-14	ECCO-60 Control Console	1			X	X
133-15	ECCO-60 Control Console	1			X	X
133-16	ECCO-60 Control Console	1			X	X
133-17	ECCO-60 Control Console	1			X	X
133-18	ECCO-60 Control Console	1			X	X
133-19	ECCO-60 Control Console	1			X	X
133-20	ECCO-60 Control Console	1			X	X
133-21	ECCO-60 Control Console	1			X	X
133-22	ECCO-60 Control Console	1			X	X
134	Oil Filter Tank Receipts	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6			X	X
B	Rack Shelving - 2D x 8W x 8H	20			X	X
C	Rack Shelving - 3D x 10W x 8H	5			X	X



TRUE PLAN NORTH NORTH
1 1/8" First Floor Demo Equipment Plan - Area A
VP - 11/17

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**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

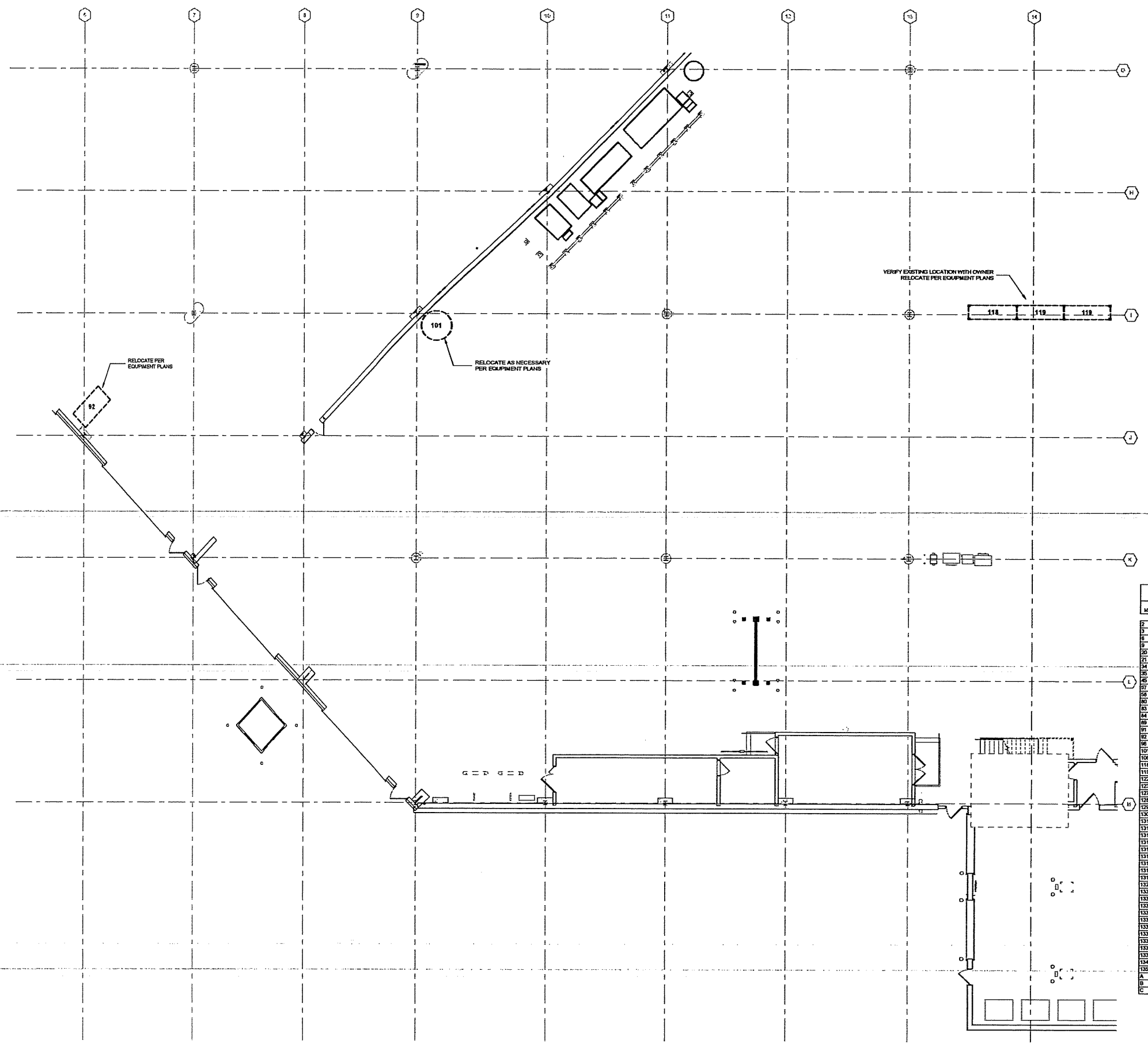
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CONTRACT NO.: 5591
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 DATE: APRIL 8, 2021
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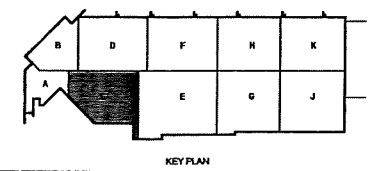
PROJECT: FIRST FLOOR DEMOLITION PLAN - AREA C

PROJECT NO.: QD101C

ORIGINAL - 2



EQUIPMENT SCHEDULE					
Mark	Type	Count	Owner Provided	GC Provided	GC Installed
2	Rim Clamp Tire Machine	1	X	X	
3	Desk 60" W x 30" D	3		X	X
5	Tire Cages	1	X	X	
6	3" Tire Locker - 12"x15"x 78"	6		X	X
20	Tool Cabinet	30	X	X	
21	Work Bench 5'-0" W x 3'-0" D x 3'-0" H	18		X	X
34	Power Washer 5/8" 37	9		X	X
35	Oil King 25 gal Used-Oil Receiver	11		X	X
45	Tool Cabinet	1	X	X	
47	Battery Charging Bench	1	X	X	X
48	Battery Charging Bench	1	X	X	
80	Pallet Storage Floor Space	1	X	X	
83	Pallet Storage Floor Space	1	X	X	
84	Used Oil Tank	1	X		X
88	Bulk Fluid Storage Tank #2	1	X		X
91	Dumping Hopper	1	X	X	
92	Baler	1	X		X
98	Oil Filter Cranes	1	X		X
101	Bulk Fluid Storage Tank #3	1	X		X
106	Rack Shaking - 3D x 10W x 8H	3	X		X
116	Rack Shaking - 3D x 10W x 8H	1	X		X
119	Rack Shaking - 3D x 10W x 8H	2	X		X
122	Tire Machine	1	X	X	
123	Flammable Tank Storage	1		X	X
127	Oil Press	1	X	X	
129	Horizontal Band Saw	1	X	X	
129	Tire Carousel	1		X	X
130	Parts Carousel	1		X	X
131-13	ECCO-40	1		X	X
131-14	ECCO-40	1		X	X
131-15	ECCO-40	1		X	X
131-16	ECCO-40	1		X	X
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131-19	ECCO-40	1		X	X
131-20	ECCO-40	1		X	X
131-21	ECCO-40	1		X	X
131-22	ECCO-40	1		X	X
132-22	ECCO-40-77	1		X	X
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133-15	ECCO-40 Control Console	1		X	X
133-16	ECCO-40 Control Console	1		X	X
133-17	ECCO-40 Control Console	1		X	X
133-18	ECCO-40 Control Console	1		X	X
133-19	ECCO-40 Control Console	1		X	X
133-20	ECCO-40 Control Console	1		X	X
133-21	ECCO-40 Control Console	1		X	X
133-22	ECCO-40 Control Console	1		X	X
134	Oil Filter Trash Receptacle	1	X	X	
135	Waste Oil Pump	2		X	X
A	Rack Shaking - 2D x 8W x 8H	8		X	X
B	Rack Shaking - 2D x 8W x 8H	26		X	X
C	Rack Shaking - 3D x 10W x 8H	5		X	X



TRUE PLAN NORTH/NORTH
 1/8" First Floor Demo Equipment Plan - Area C
 1/8" = 1'-0"

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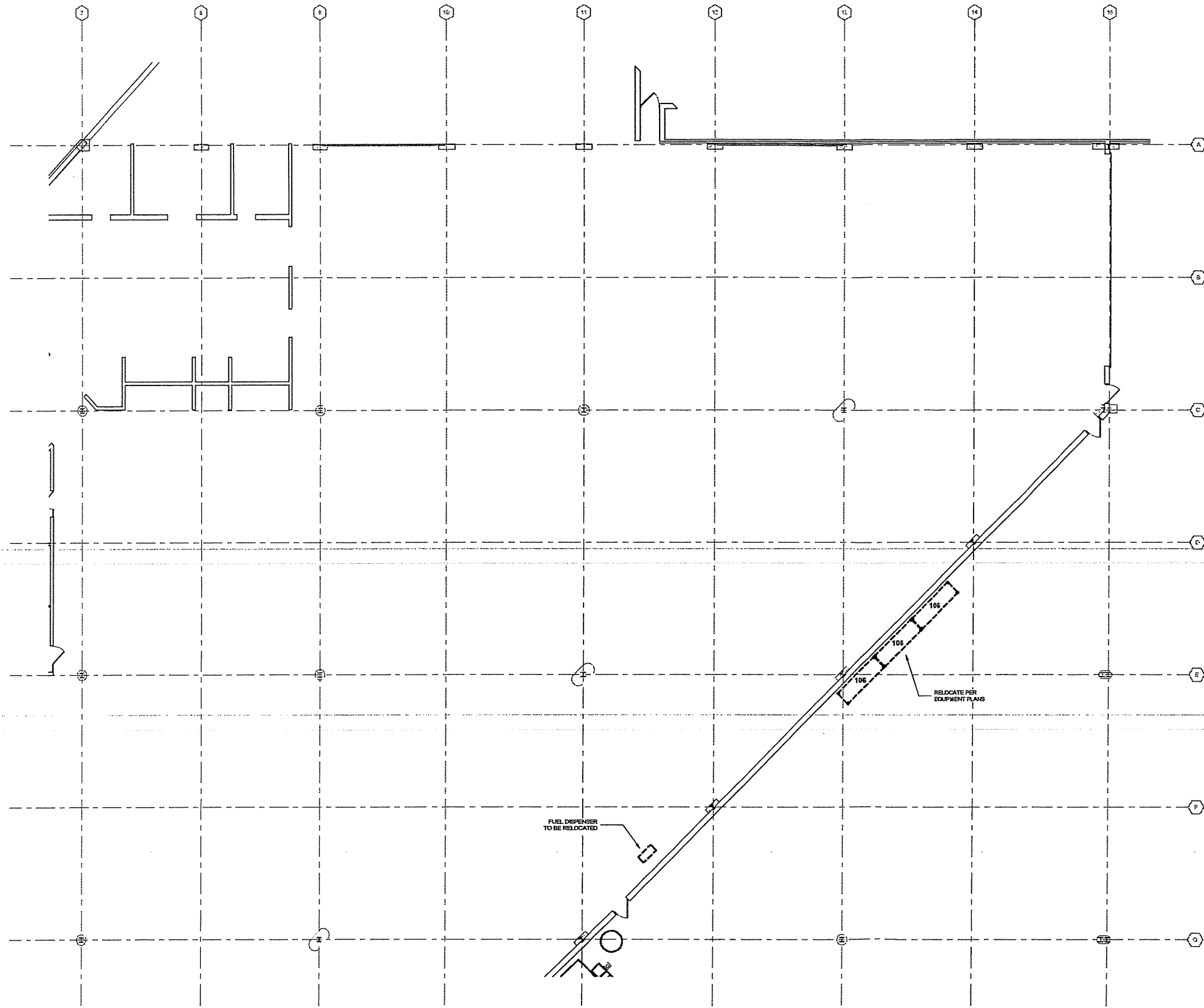
**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

ISSUE:
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 DEMOLITION PLAN -
 AREA D
 SHEET NO.:

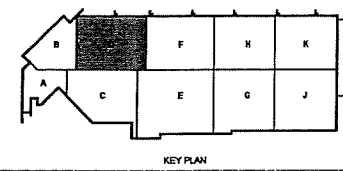
QD101D

ORIGINAL - 2



EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rim Clamp Tire Machine	1	X	X		
3	Desk 60W x 30D	3			X	X
6	Tire Cage	1	X	X	X	X
9	2-Tier Locker - 12x15x7F	6			X	X
20	Tool Cabinet	30	X	X		
21	Work Bench 6'0"W x 3'-0"D x 3'-0"H	16			X	X
34	Sheet Washer 6'0"W	9			X	X
35	Oil King 25 gal Used Oil Receiver	11			X	X
40	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1	X	X	X	X
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X			X
87	Oil Filter Storage Tank #2	1	X			X
91	Dumping Hopper	1	X	X		
92	Baler	1	X			X
96	Oil Filter Crusher	1	X			X
101	Oil Filter Storage Tank #3	1	X			X
106	Rack Shelving - 2D x 10W x 6H	3	X			X
118	Rack Shelving - 2D x 10W x 6H	1	X			X
119	Rack Shelving - 2D x 10W x 6H	2	X			X
122	Tire Machine	1	X	X		
123	Flammable Tank Storage	1			X	X
127	Oil Press	1	X	X		
128	Horizontal Band Saw	1	X	X		
129	Tire Carousel	1			X	X
130	Parts Carousel	1			X	X
131-13	ECCO-60-10	1			X	X
131-14	ECCO-60-10	1			X	X
131-15	ECCO-60-10	1			X	X
131-16	ECCO-60-10	1			X	X
131-17	ECCO-60-10	1			X	X
131-18	ECCO-60-10	1			X	X
131-19	ECCO-60-10	1			X	X
131-20	ECCO-60-10	1			X	X
131-21	ECCO-60-10	1			X	X
131-22	ECCO-60-10	1			X	X
133-13	ECCO-60 Control Console	1			X	X
133-14	ECCO-60 Control Console	1			X	X
133-15	ECCO-60 Control Console	1			X	X
133-16	ECCO-60 Control Console	1			X	X
133-17	ECCO-60 Control Console	1			X	X
133-18	ECCO-60 Control Console	1			X	X
133-19	ECCO-60 Control Console	1			X	X
133-20	ECCO-60 Control Console	1			X	X
133-21	ECCO-60 Control Console	1			X	X
133-22	ECCO-60 Control Console	1			X	X
134	Oil Filter Trash Separator	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 6W x 6H	6			X	X
B	Rack Shelving - 2D x 6W x 6H	26			X	X
C	Rack Shelving - 2D x 10W x 6H	5			X	X

TRUE PLAN NORTH NORTH
 1/8" First Floor Demo Equipment Plan - Area D
 1/8" = 1'-0"



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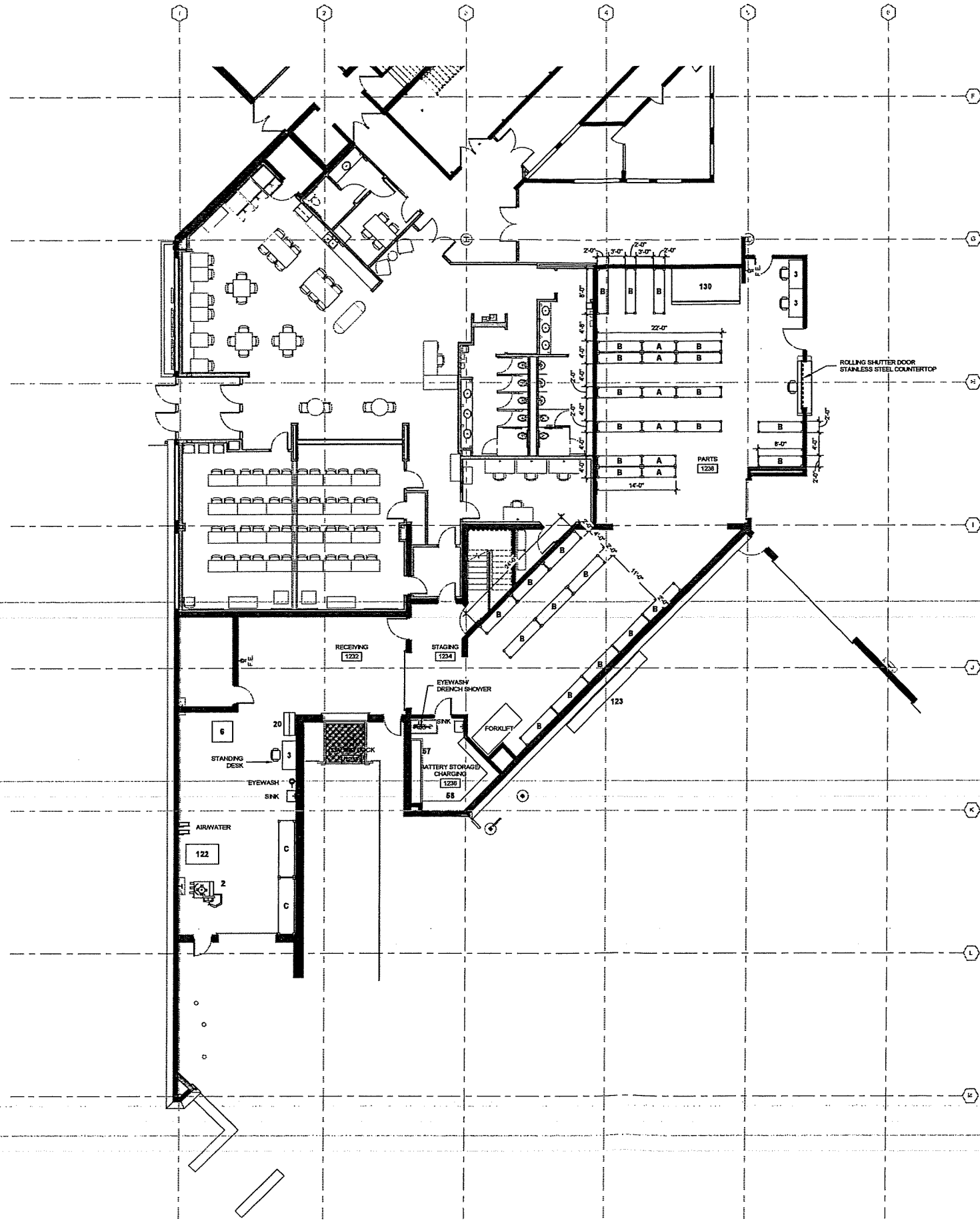


**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

SCALE
04/08/21 MD SET

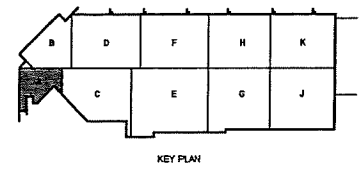
CONTRACT NO: 8981
PROJECT NO: 4000000-1000000
DATE: APRIL 8, 2021
DESIGNED BY: JFW
DRAWN BY: RES
CHECKED BY: Checker
30 MET SCALE DRAWINGS
FIRST FLOOR PLAN -
AREA A

SHEET NO:
Q-101A



EQUIPMENT SCHEDULE

Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rm Clamp Tire Machine	1	X	X		
3	Desk 80"W x 30"D	3			X	X
5	Tire Caps	1	X	X	X	X
9	2-Tier Locker - 12"x15"x16"	6			X	X
20	Tool Cabinet	30	X	X		
21	Work Bench 54"W x 3'-0"D x 3'-0"H	18			X	X
34	Flow Washer 50"x37"	9			X	X
35	Oil King 25 gal Used-Oil Receiver	11			X	X
45	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1	X	X	X	X
60	Battery Charging Bench	1	X	X	X	X
80	Pallet Storage Floor Space	1	X	X		
83	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X			X
89	Bulk Fluid Storage Tank #2	1	X			X
91	Dumping Hopper	1	X	X		
92	Baler	1	X			X
96	Oil Filter Crusher	1	X			X
101	Bulk Fluid Storage Tank #3	1	X			X
106	Rack Shaking - 3D x 10W x 8H	3	X			X
118	Rack Shaking - 3D x 10W x 8H	1	X			X
119	Rack Shaking - 3D x 10W x 8H	2	X			X
122	Tire Machine	1	X	X		
123	Flammable Tank Storage	1			X	X
127	Oil Press	1	X	X		
129	Horizontal Band Saw	1	X	X		
129	Tire Carousel	1			X	X
130	Pallet Carousel	1			X	X
131-13	ECD-60-10	1			X	X
131-14	ECD-60-10	1			X	X
131-15	ECD-60-10	1			X	X
131-16	ECD-60-10	1			X	X
131-17	ECD-60-10	1			X	X
131-18	ECD-60-10	1			X	X
131-19	ECD-60-10	1			X	X
131-20	ECD-60-10	1			X	X
131-21	ECD-60-10	1			X	X
132-22	ECD-60-17	1			X	X
133-13	ECD-60 Control Console	1			X	X
133-14	ECD-60 Control Console	1			X	X
133-15	ECD-60 Control Console	1			X	X
133-16	ECD-60 Control Console	1			X	X
133-17	ECD-60 Control Console	1			X	X
133-18	ECD-60 Control Console	1			X	X
133-19	ECD-60 Control Console	1			X	X
133-20	ECD-60 Control Console	1			X	X
133-21	ECD-60 Control Console	1			X	X
133-22	ECD-60 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X	X	X	X
135	Waste Oil Pump	2			X	X
A	Rack Shaking - 2D x 8W x 8H	6			X	X
B	Rack Shaking - 2D x 8W x 8H	25			X	X
C	Rack Shaking - 3D x 10W x 8H	5			X	X



TRUE PLAN
NORTH NORTH
1/8" First Floor Equipment Plan - Area A
1/8" = 1'-0"

ORIGINAL - 2



**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

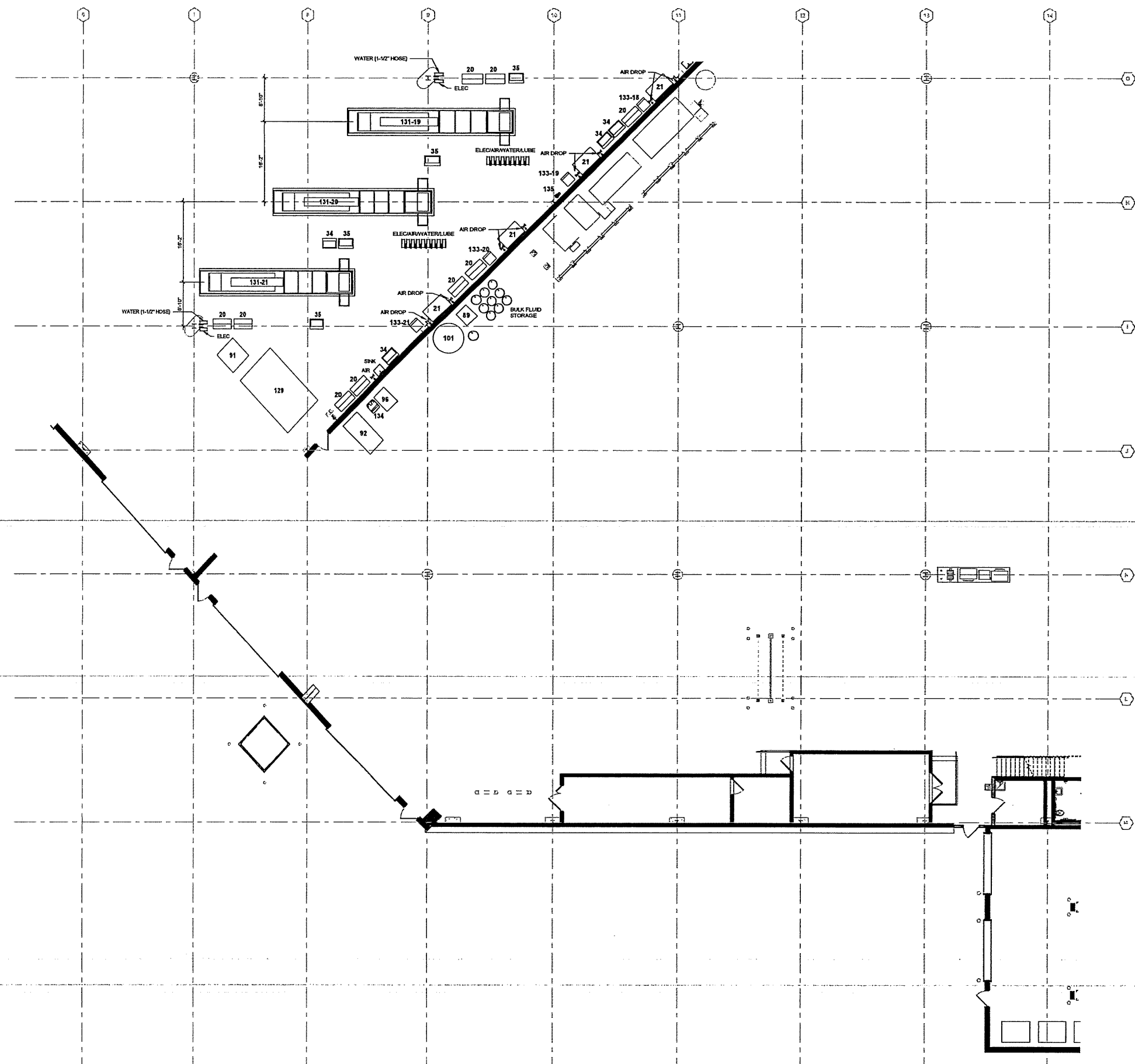
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CONTRACT NO. 2021
 PROJECT NO. 400000-10088.03
 DATE: APRIL 8, 2021
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 CHECKED BY: [Signature]
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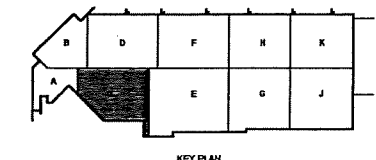
SHEET CONTENTS
 FIRST FLOOR PLAN -
 AREA C

Q-101C

ORIGINAL - 2



EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Roll Clamp Tire Machine	1	X	X		
3	Deck 60W x 30D	3			X	X
6	Tire Cage	1	X	X	X	X
9	2-Tier Locker - 12"x15"x 78"	6			X	X
20	Tire Cabinet	30	X	X		
21	Work Bench 30" W x 3' 0" D x 3' 0" H	15			X	X
34	SmartWasher SW-37	1			X	X
35	Oil King 25 gal Used-Oil Receiver	11			X	X
45	Tire Cabinet	1	X	X	X	X
57	Battery Charging Bench	1	X	X	X	X
58	Battery Charging Bench	1	X	X	X	X
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
64	Used Oil Tank	1	X	X	X	X
69	Bulk Fluid Storage Tank #2	1	X	X	X	X
91	Dumping Hopper	1	X	X	X	X
92	Bin	1	X	X	X	X
96	Oil Filter Crusher	1	X	X		
101	Bulk Fluid Storage Tank #3	1	X	X	X	X
106	Rack Shelving - 2D x 10W x 8H	3	X	X	X	X
118	Rack Shelving - 2D x 10W x 8H	1	X	X	X	X
119	Rack Shelving - 2D x 10W x 8H	2	X	X		
122	Tire Machine	1	X	X		
123	Flammable Tank Storage	1	X	X	X	X
127	Oil Press	1	X	X	X	X
128	Horizontal Band Saw	1	X	X		
129	Tire Cannon	1			X	X
130	Tire Cannon	1			X	X
131-13	ECD-60-10	1			X	X
131-14	ECD-60-10	1			X	X
131-15	ECD-60-10	1			X	X
131-16	ECD-60-10	1			X	X
131-17	ECD-60-10	1			X	X
131-18	ECD-60-10	1			X	X
131-19	ECD-60-10	1			X	X
131-20	ECD-60-10	1			X	X
131-21	ECD-60-10	1			X	X
132-22	ECD-60-17	1			X	X
133-13	ECD-60 Control Console	1			X	X
133-14	ECD-60 Control Console	1			X	X
133-15	ECD-60 Control Console	1			X	X
133-16	ECD-60 Control Console	1			X	X
133-17	ECD-60 Control Console	1			X	X
133-18	ECD-60 Control Console	1			X	X
133-19	ECD-60 Control Console	1			X	X
133-20	ECD-60 Control Console	1			X	X
133-21	ECD-60 Control Console	1			X	X
133-22	ECD-60 Control Console	1			X	X
134	Oil Filter Trash Raceplate	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6			X	X
B	Rack Shelving - 2D x 8W x 8H	26			X	X
C	Rack Shelving - 2D x 10W x 8H	5			X	X



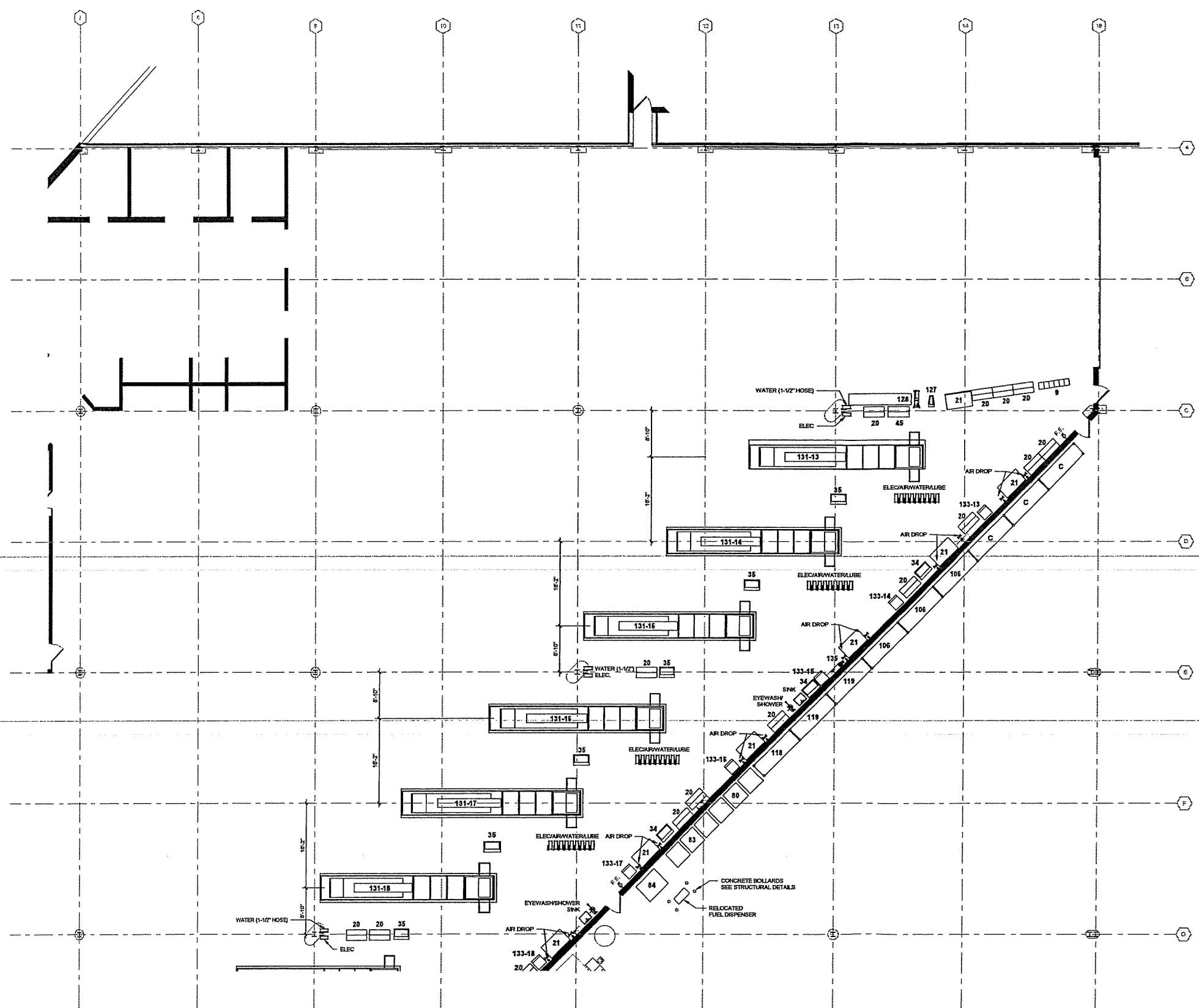
TRUE PLAN
 NORTH NORTH
 1
 1/8" First Floor Equipment Plan - Area C
 1/8" = 1'-0"

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ORIGINAL - 2

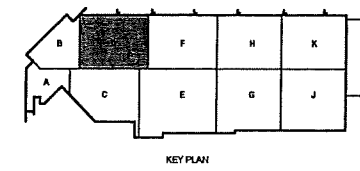


**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**



EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Roll Clamp Tire Machine	1	X	X		
3	Desk 60"W x 30"D	3			X	X
6	Tire Cages	1	X	X		
9	2-Tier Locker - 12"x15"x76"	6			X	X
20	Tool Cabinet	30	X	X		
21	Work Bench 5'-0"W x 3'-0"D x 3'-0"H	16			X	X
34	General Purpose Sink	9			X	X
35	Oil King 25 gal Used-Oil Receiver	11			X	X
45	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1			X	X
58	Battery Charging Bench	1	X	X		
80	Pallet Storage Floor Space	1	X	X		
83	Pallet Storage Floor Space	1	X	X		
84	Used Oil Tank	1	X			X
89	Bulk Fuel Storage Tank #2	1	X	X		
91	Dumping Hopper	1	X	X		
92	Baler	1	X	X		X
96	Oil Filter Crainer	1	X	X		X
101	Bulk Fuel Storage Tank #3	1	X			X
106	Rack Shelving - 3D x 10W x 8H	3	X			X
118	Rack Shelving - 3D x 10W x 8H	1	X			X
119	Rack Shelving - 3D x 10W x 8H	2	X			X
122	Fire Machine	1	X	X		
123	Flammable Tank Storage	1			X	X
127	Drill Press	1	X	X		
129	Horizontal Band Saw	1	X	X		
129	Tire Carousel	1	X	X		X
130	Parts Carousel	1			X	X
131-13	ECCO-60-10	1			X	X
131-14	ECCO-60-10	1			X	X
131-15	ECCO-60-10	1			X	X
131-16	ECCO-60-10	1			X	X
131-17	ECCO-60-10	1			X	X
131-18	ECCO-60-10	1			X	X
131-19	ECCO-60-10	1			X	X
131-20	ECCO-60-10	1			X	X
131-21	ECCO-60-10	1			X	X
133-22	ECCO-60-17	1			X	X
133-43	ECCO-60 Control Console	1			X	X
133-14	ECCO-60 Control Console	1			X	X
133-15	ECCO-60 Control Console	1			X	X
133-16	ECCO-60 Control Console	1			X	X
133-17	ECCO-60 Control Console	1			X	X
133-18	ECCO-60 Control Console	1			X	X
133-19	ECCO-60 Control Console	1			X	X
133-20	ECCO-60 Control Console	1			X	X
133-21	ECCO-60 Control Console	1			X	X
133-22	ECCO-60 Control Console	1			X	X
134	Oil Filter Truck Receptacle	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6			X	X
B	Rack Shelving - 2D x 8W x 8H	26			X	X
C	Rack Shelving - 3D x 10W x 8H	5			X	X

TRUE PLAN NORTH NORTH
 1/8" = 1'-0"
1/8" First Floor Equipment Plan - Area D



CONTRACT NO: 0981
 DRAWING NO: 4503000-100606.00
 DATE: APRIL 8, 2021
 DESIGNED BY: JFW
 DRAWN BY: RES
 CHECKED BY: Checkat
 50 HKT SCALE DRAWINGS
 SHEET CONTENTS
 FIRST FLOOR PLAN - AREA D
 SHEET NO: Q-101D



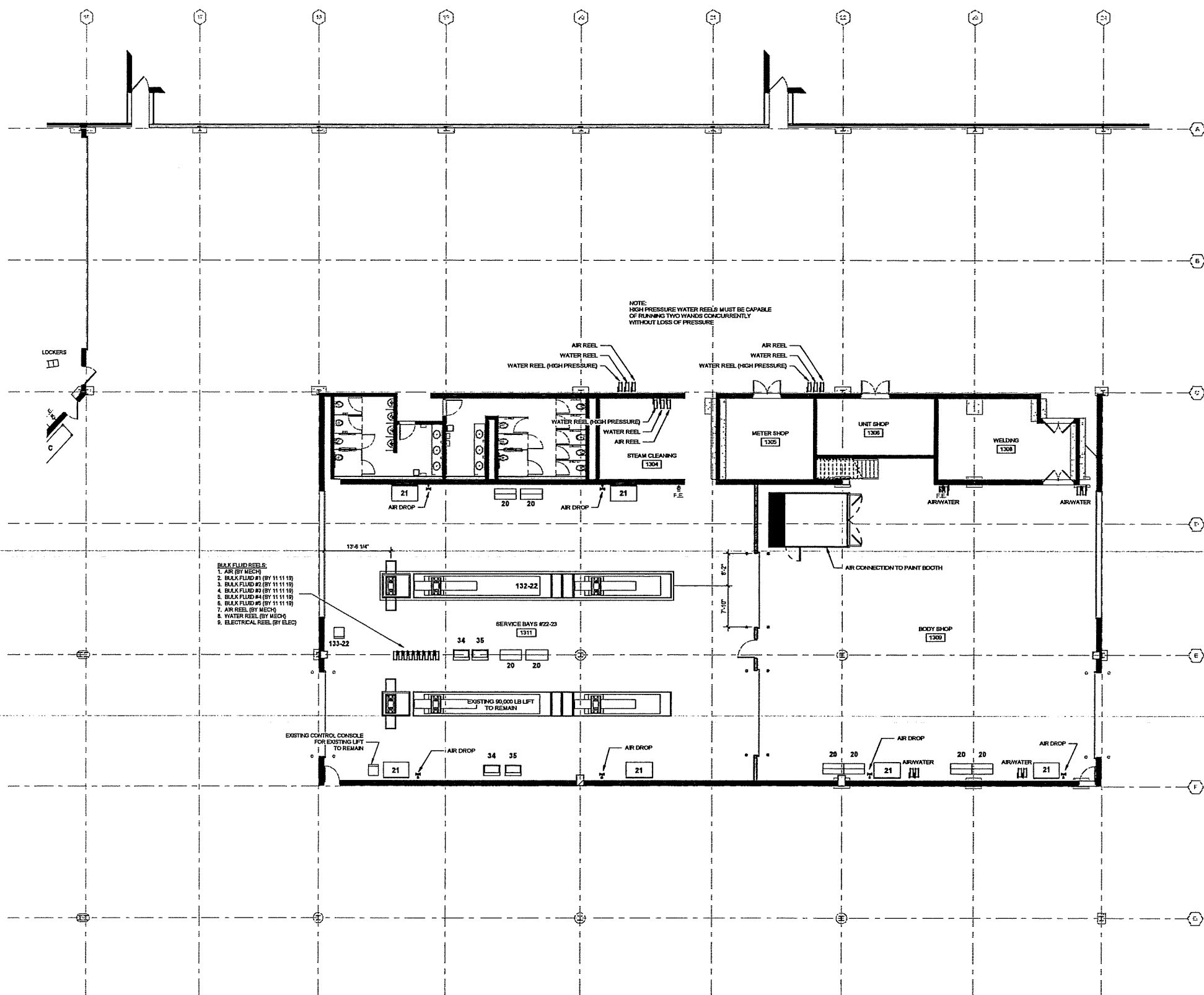
**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

ISSUE
 04/06/21 BLD SET

CONTRACT NO: 0991
 DRAWING NO: 455000-19006L03
 DATE: APRIL 8, 2021
 DESIGNED BY: JFW
 CHECKED BY: RES
 CHECKED BY: [Signature]
 DO NOT SCALE DRAWINGS
 SHEET COMMENTS
 FIRST FLOOR PLAN -
 AREA F

Q-101F

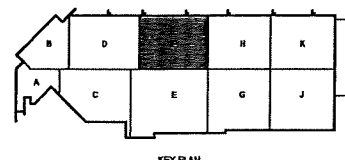
ORIG INTL - 2



- BULK FLUID REELS**
 1. AIR (BY MECH)
 2. BULK FLUID #1 (BY 11 11 19)
 3. BULK FLUID #2 (BY 11 11 19)
 4. BULK FLUID #3 (BY 11 11 19)
 5. BULK FLUID #4 (BY 11 11 19)
 6. BULK FLUID #5 (BY 11 11 19)
 7. AIR REEL (BY MECH)
 8. WATER REEL (BY MECH)
 9. ELECTRICAL REEL (BY ELEC)

EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rim Clamp Tire Machine	1	X	X		
3	Desk 60W x 30D	3			X	X
6	Tire Cage	1	X	X		
9	2-Tier Locker - 12x15x78"	6			X	X
10	Tool Cabinet	30	X	X		
21	Work Bench 5'-0"W x 3'-0"D x 3'-0"H	18			X	X
34	SmartWasher BW-37	9			X	X
25	Oil King 25 gal Used-Oil Receiver	11			X	X
42	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1			X	X
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
64	Used Oil Tank	1	X	X		
69	Bulk Fluid Storage Tank #2	1	X	X		
91	Dumping Hopper	1	X	X		
92	Baler	1	X	X		
96	Oil Filter Crusher	1	X	X		
101	Bulk Fluid Storage Tank #3	1	X	X		
106	Rack Shelving - 3D x 10W x 8H	3	X	X		
118	Rack Shelving - 3D x 10W x 8H	1	X	X		
119	Rack Shelving - 3D x 10W x 8H	2	X	X		
122	Tire Machine	1	X	X		
123	Flammable Tank Storage	1	X	X	X	X
127	Oil Press	1	X	X		
128	Horizontal Band Saw	1	X	X		
129	Tire Caswell	1			X	X
130	Parts Caswell	1			X	X
131-13	ECCO-80-10	1			X	X
131-14	ECCO-80-10	1			X	X
131-15	ECCO-80-10	1			X	X
131-16	ECCO-80-10	1			X	X
131-17	ECCO-80-10	1			X	X
131-18	ECCO-80-10	1			X	X
131-19	ECCO-80-10	1			X	X
131-20	ECCO-80-10	1			X	X
131-21	ECCO-80-10	1			X	X
133-22	ECCO-80-17	1			X	X
133-13	ECCO-80 Control Console	1			X	X
133-14	ECCO-80 Control Console	1			X	X
133-15	ECCO-80 Control Console	1			X	X
133-16	ECCO-80 Control Console	1			X	X
133-17	ECCO-80 Control Console	1			X	X
133-18	ECCO-80 Control Console	1			X	X
133-19	ECCO-80 Control Console	1			X	X
133-20	ECCO-80 Control Console	1			X	X
133-21	ECCO-80 Control Console	1			X	X
133-22	ECCO-80 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X	X		
135	Waste Oil Pump	2	X	X		
A	Rack Shelving - 2D x 8W x 8H	6			X	X
B	Rack Shelving - 2D x 8W x 8H	25			X	X
C	Rack Shelving - 3D x 10W x 8H	6			X	X

TRUE PLAN
 NORTH ARROW
1/8" First Floor Equipment Plan - Area F
 1/8" = 1'-0"



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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

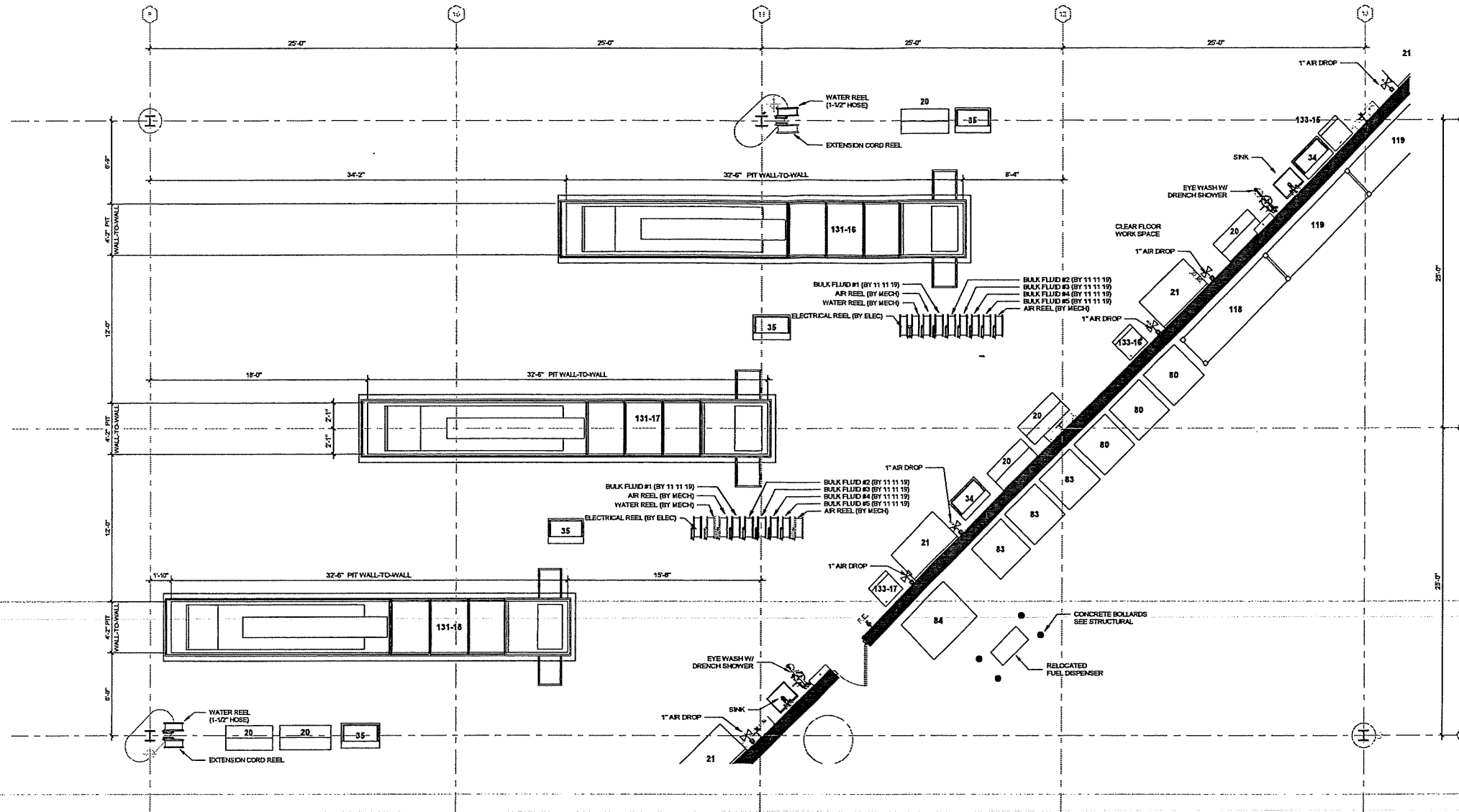
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M&H NO: 450000-190856.03
DATE: APRIL 8, 2021
DESIGNED BY: JPH
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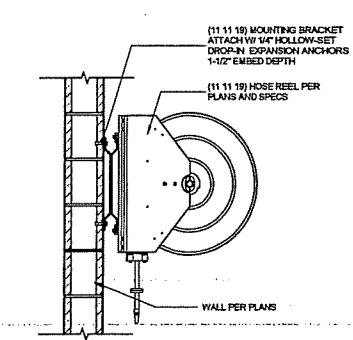
SHEET CONTENTS
FIRST FLOOR PLAN -
ENLARGED REPAIR
BAY LAYOUT

SHEET NO:
Q-401

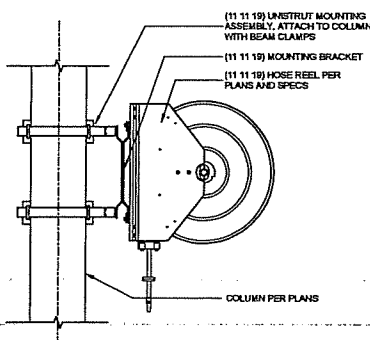
ORIGINAL - 2



TRUE PLAN NORTH
1 First Floor Equipment Plan - Typ Repair Bay Layout
1/4" = 1'-0"



2 Hose Reel Mounting @ CMU Wall
1/4" = 1'-0"



3 Hose Reel Mounting @ Columns
1/4" = 1'-0"

EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Bin Clamp Tire Machine	1	X	X		
3	Desk 60W x 30D	3			X	X
6	Tire Cage	1	X	X		
9	2-Tier Locker - 12"x19"x7"	6			X	X
20	Tool Cabinet	20	X	X		
21	Work Bench 6'-0"W x 3'-0"D x 3'-0"H	16			X	X
34	SmearWasher SW-37	9			X	X
35	Oil King 25 gal Used-Oil Receiver	11			X	X
45	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1			X	X
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
64	Used Oil Tank	1	X			X
69	Bulk Fluid Storage Tank #2	1	X			X
92	Dumping Hopper	1	X	X		X
96	Oil Filter Crusher	1	X			X
101	Bulk Fluid Storage Tank #3	1	X			X
108	Rack Shelving - 3D x 10W x 8H	3	X			X
118	Rack Shelving - 3D x 10W x 8H	1	X			X
119	Rack Shelving - 3D x 10W x 8H	2	X			X
122	Tire Machine	1	X	X		
123	Flammable Tank Storage	1			X	X
127	DVB Press	1	X	X		
128	Horizontal Band Saw	1	X	X		
129	Tire Carousel	1			X	X
130	Parts Carousel	1			X	X
131-13	ECCO-60-10	1			X	X
131-14	ECCO-60-10	1			X	X
131-15	ECCO-60-10	1			X	X
131-16	ECCO-60-10	1			X	X
131-17	ECCO-60-10	1			X	X
131-18	ECCO-60-10	1			X	X
131-19	ECCO-60-10	1			X	X
131-20	ECCO-60-10	1			X	X
131-21	ECCO-60-10	1			X	X
131-22	ECCO-60-10	1			X	X
131-23	ECCO-60-17	1			X	X
131-24	ECCO-60-17	1			X	X
131-25	ECCO-60 Control Console	1			X	X
131-26	ECCO-60 Control Console	1			X	X
131-27	ECCO-60 Control Console	1			X	X
131-28	ECCO-60 Control Console	1			X	X
131-29	ECCO-60 Control Console	1			X	X
131-30	ECCO-60 Control Console	1			X	X
131-31	ECCO-60 Control Console	1			X	X
131-32	ECCO-60 Control Console	1			X	X
131-33	ECCO-60 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X	X		
135	Waste Oil Pails	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6			X	X
B	Rack Shelving - 2D x 8W x 8H	26			X	X
C	Rack Shelving - 3D x 10W x 8H	5			X	X

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ORIGINAL-2

GENERAL NOTES

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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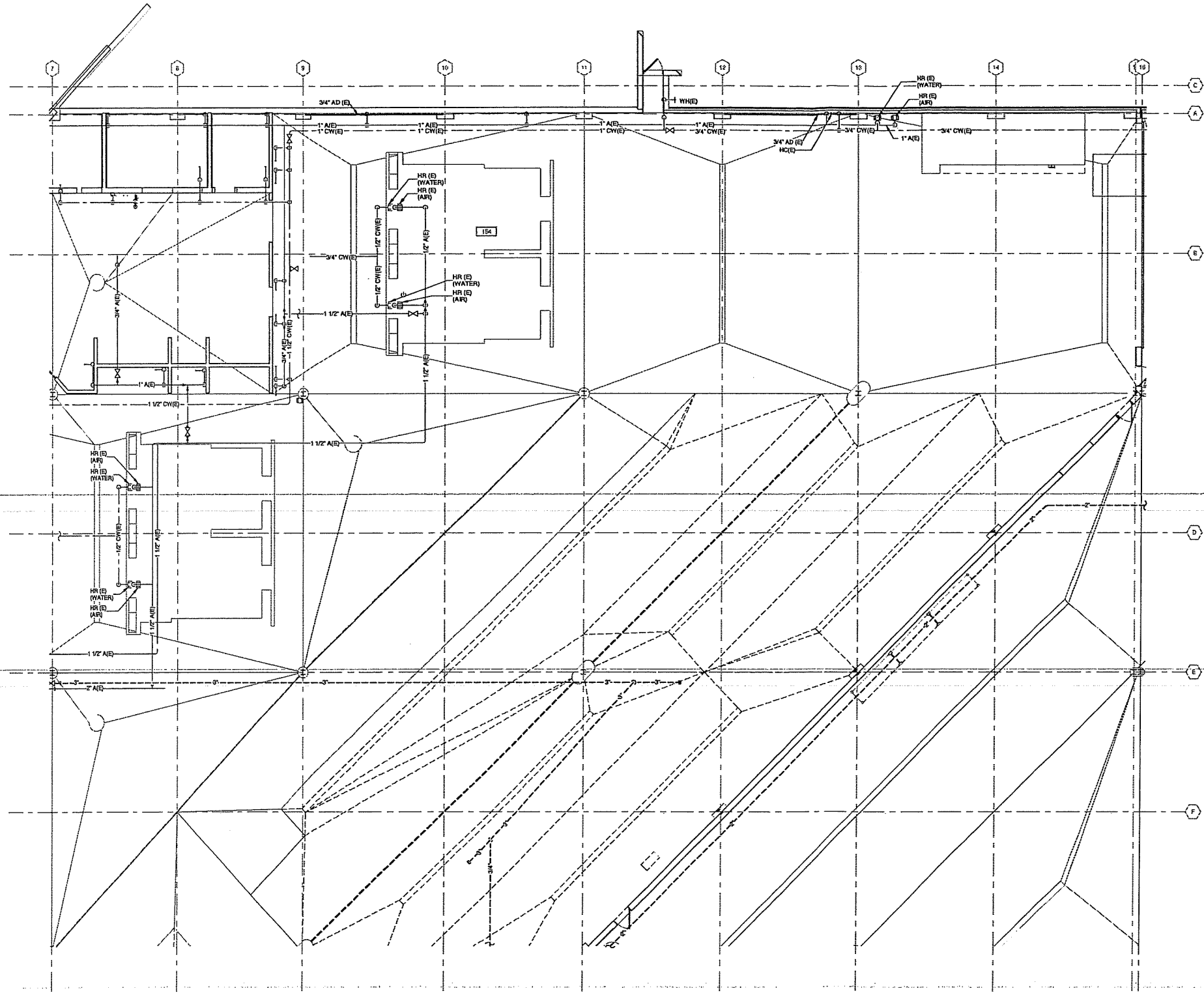


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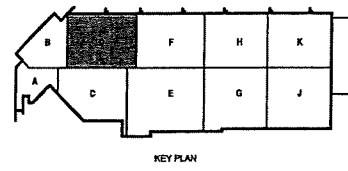
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 DATE: April 8, 2021
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 CHECKED BY: RMM
 SHEET DESCRIPTION:
**FIRST FLOOR
 SUPPLY DEMOLITION
 PLAN - AREA D**

SHEET NO:
PD131D



TRUE PLAN NORTH NORTH
1 FIRST FLOOR SUPPLY PIPING DEMOLITION PLAN - AREA D
 1/8\"/>



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DR(6)124-2

GENERAL NOTES

1. REFERENCE G-020 THROUGH G-025 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASES/SEQUENCING AND SITE ACCESS.
3. REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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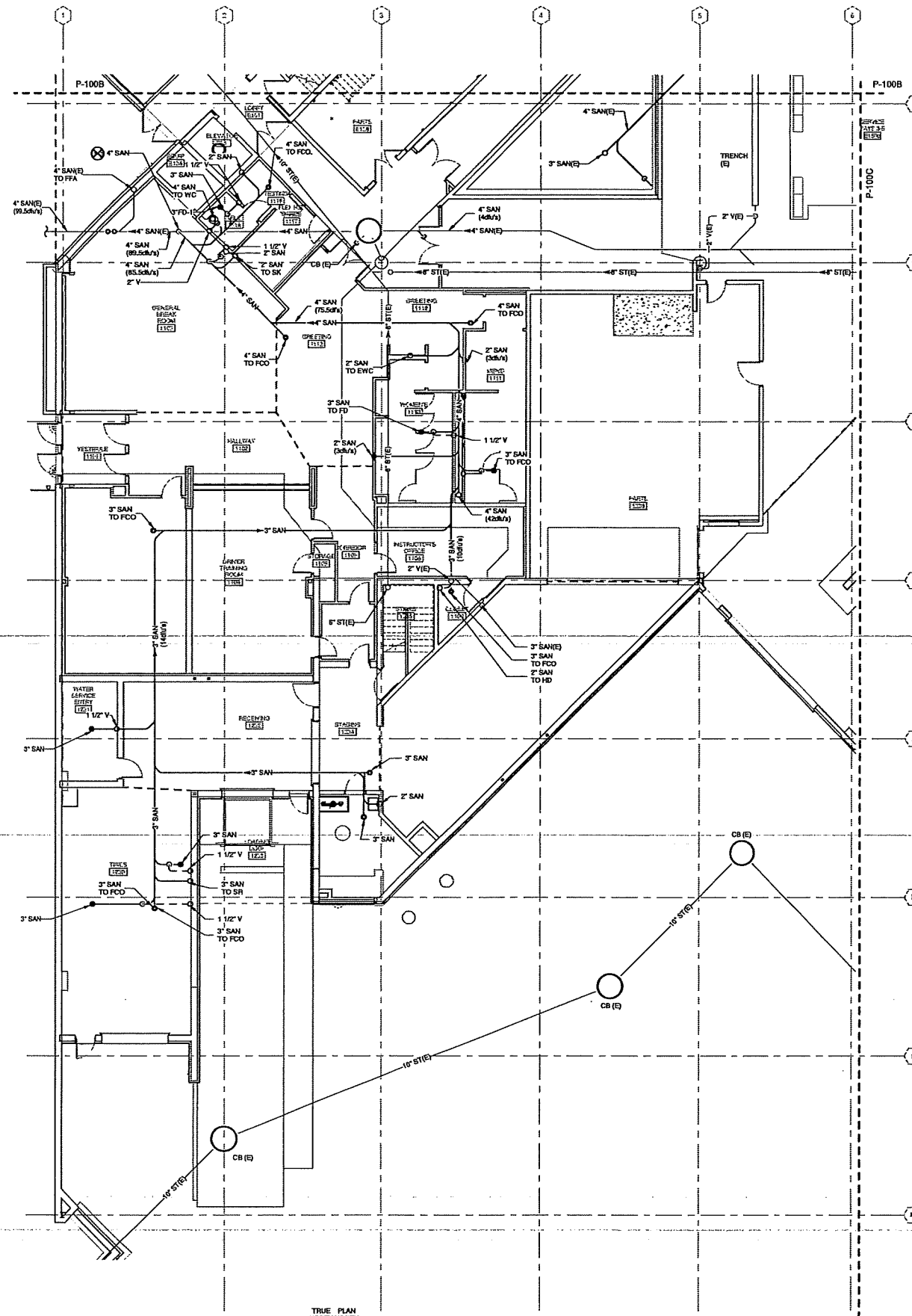
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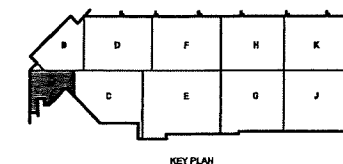
SHEET CONTENTS
 UNDERGROUND
 DRAIN AND VENT
 PLAN - AREA A

SHEET NO.:

P-100A

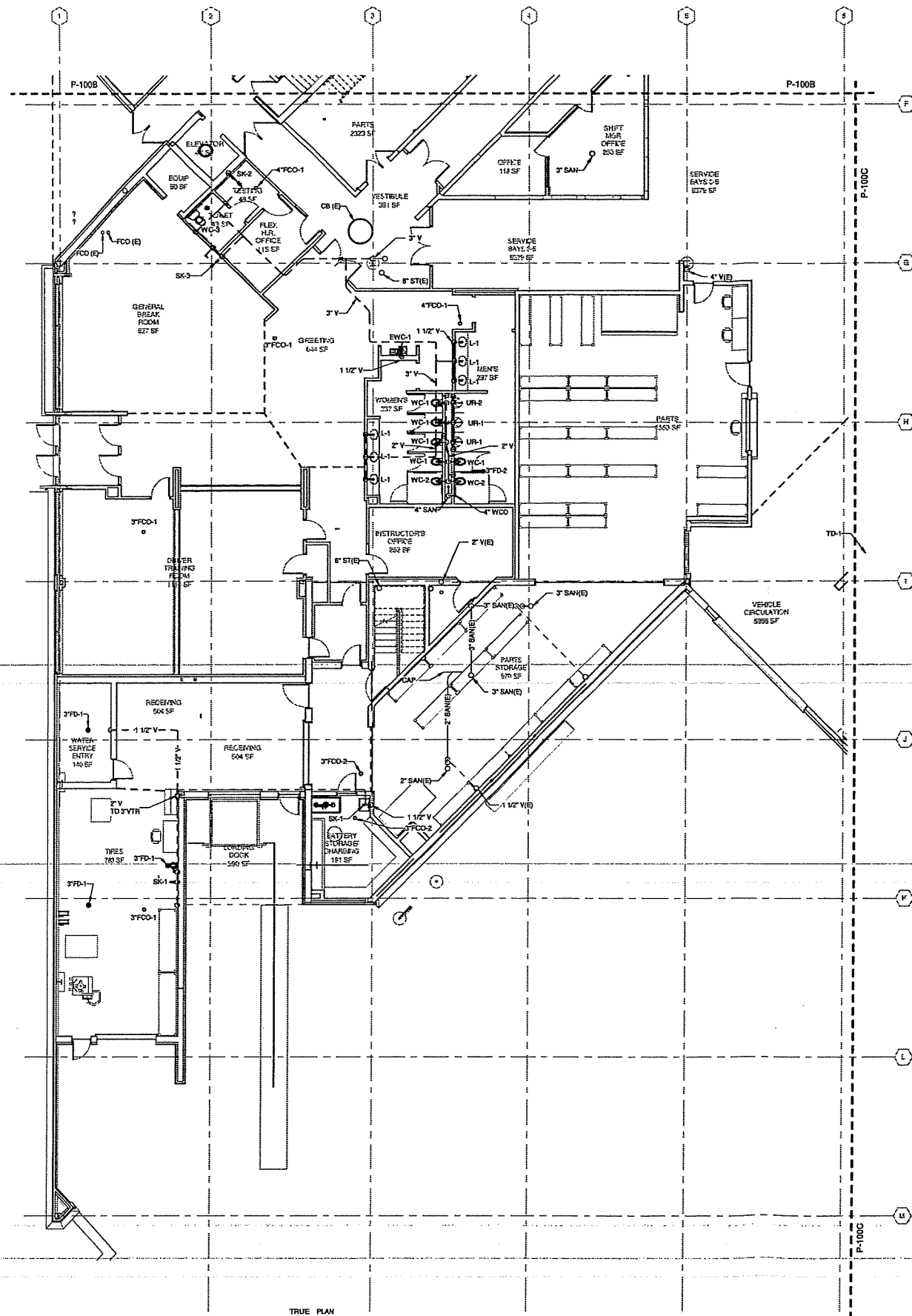


TRUE PLAN
 NORTH NORTH
1 UNDERGROUND DRAIN AND VENT PLAN - AREA A
 1/8" = 1'-0"

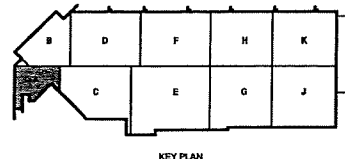


KEY PLAN

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TRUE PLAN NORTH NORTH
FIRST FLOOR DRAIN AND VENT PLAN - AREA B
 1/8" = 1'-0"



KEY PLAN

- GENERAL NOTES**
1. REFERENCE G-200 THROUGH G-200 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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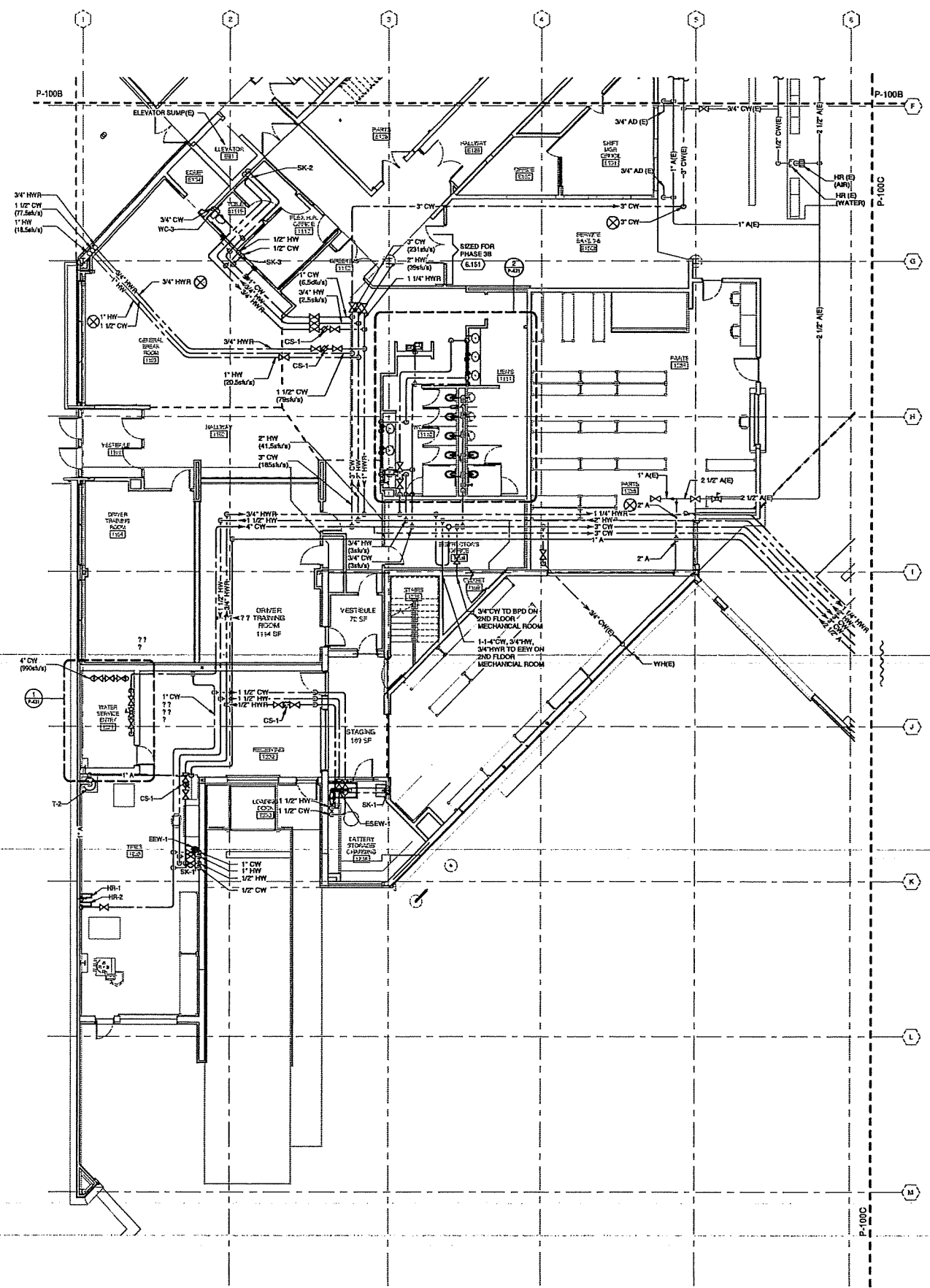
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 DATE: April 8, 2021
 DESIGNED BY: JET
 DRAWN BY: JET
 CHECKED BY: RWB
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SHEET CONTENTS
 FIRST FLOOR DRAIN
 AND VENT PLAN -
 AREA A

SHEET NO.:
P-101A

ORIGINAL-2

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- GENERAL NOTES**
1. REFERENCE G-020 THROUGH G-026 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
 3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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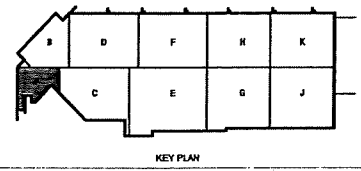
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CONTRACT NO. 881
 WORK NO. 4302500-100696.00
 DATE: April 8, 2021
 DRAWN BY: JET
 CHECKED BY: RMM
 EDUCATION SCALE DIMENSIONS
 SHEET CONTENTS
 FIRST FLOOR
 SUPPLY PLAN - AREA A

SHEET NO.:
P-131A

TRUE PLAN NORTH NORTH
1 FIRST FLOOR SUPPLY PIPING PLAN - AREA B
 1/8" = 1'-0"



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ORIGINAL-2

GENERAL NOTES

1. REFERENCE G-020 THROUGH G-029 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

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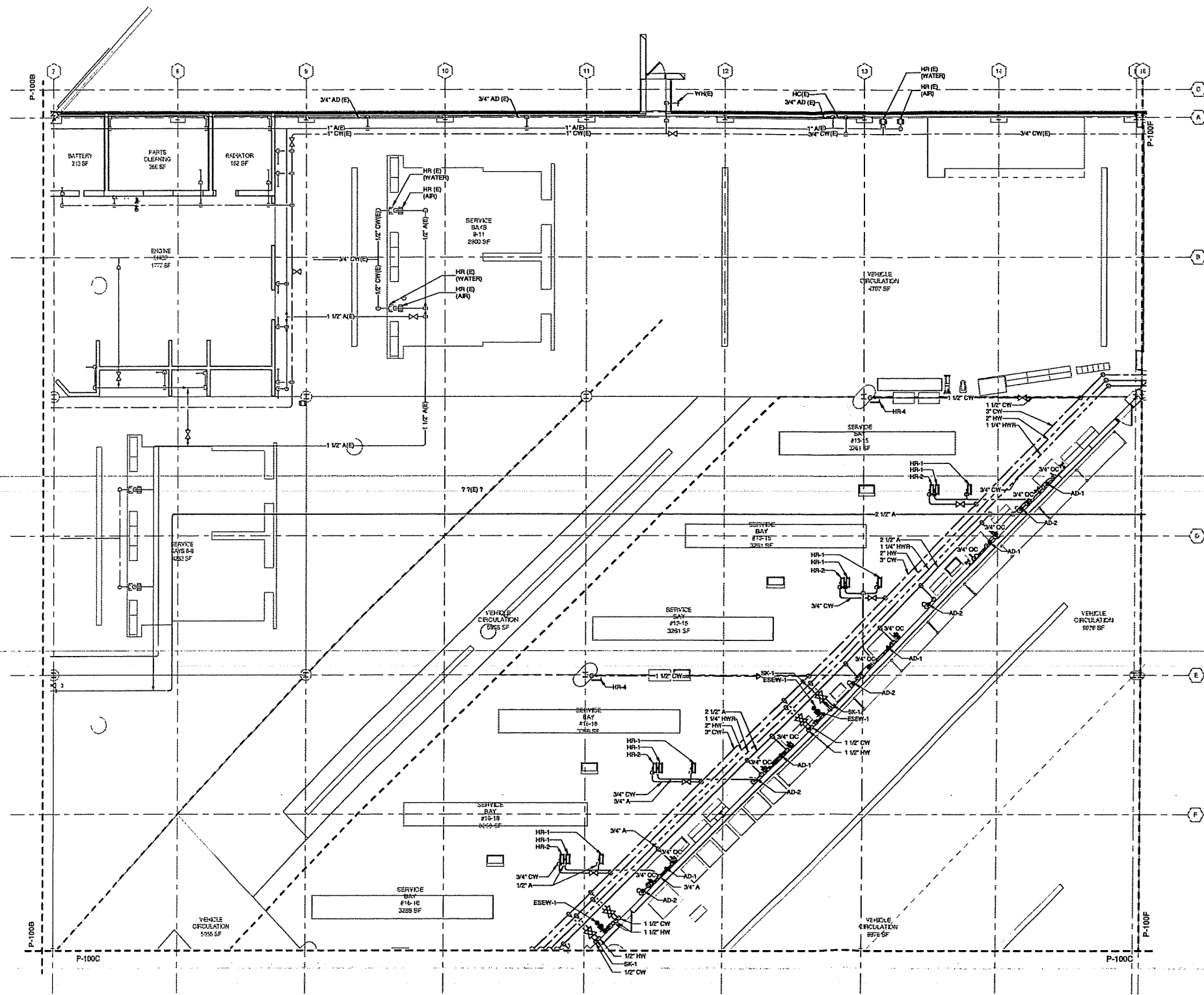
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MUNICIPALITY: MADISON
DATE: April 8, 2021
DESIGNED BY: JET
DRAWN BY: JET
CHECKED BY: RVM
60 1/2" SCALE DRAWINGS

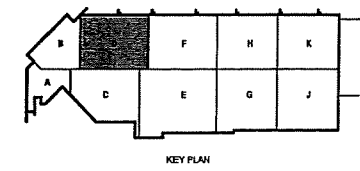
SHEET CONTENTS
FIRST FLOOR
SUPPLY PLAN - AREA D

SHEET NO.:

P-131D

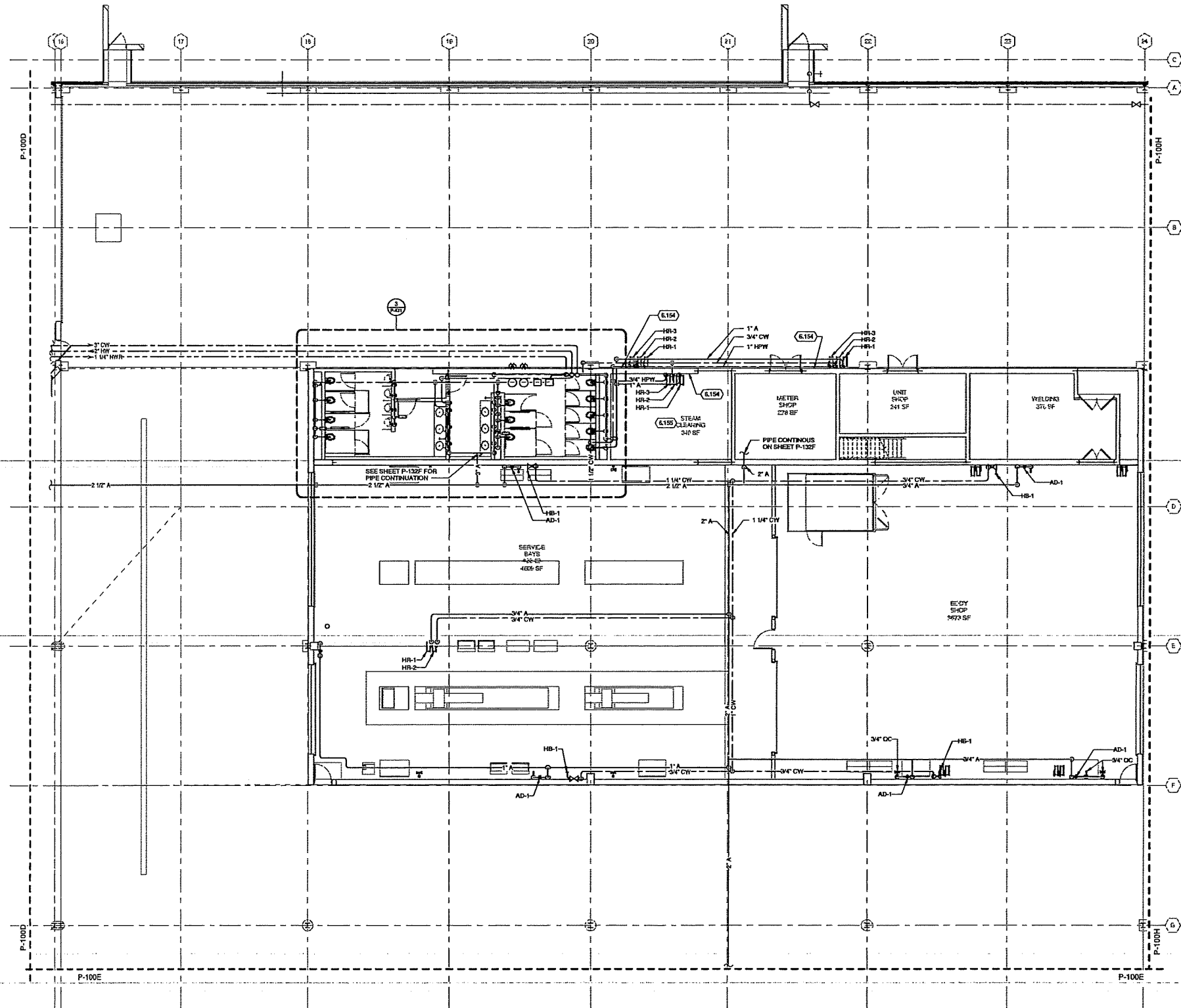


TRUE PLAN
NORTH
1 FIRST FLOOR SUPPLY PIPING PLAN - AREA D
1/8" = 1'-0"



KEY PLAN

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TRUE PLAN NORTH NORTH

1 FIRST FLOOR SUPPLY PIPING PLAN - AREA F
 1/8" = 1'-0"

GENERAL NOTES

- 1. REFERENCE G-020 THROUGH G-026 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR FINISHES, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

FIRST FLOOR - AREA F - ALTERNATE BID #1

- 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKERROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

KEYED NOTES

- 6.154 PROVIDE REMOTE HOT/COLD CONTROL AT EACH HPW HOSE REEL.
- 6.155 COORDINATE WITH OWNER THE LOCATION OF THE SOAP DISPENSING CONTAINER.

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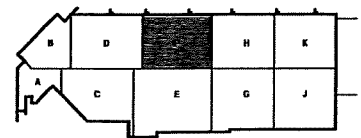
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040621 BID SET

CONTRACT NO. 040621
 DRAWING NO. 4521500-190896.03
 DATE: April 8, 2021
 DESIGNED BY: JET
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SHEET CONTENTS
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 SUPPLY PLAN - AREA F

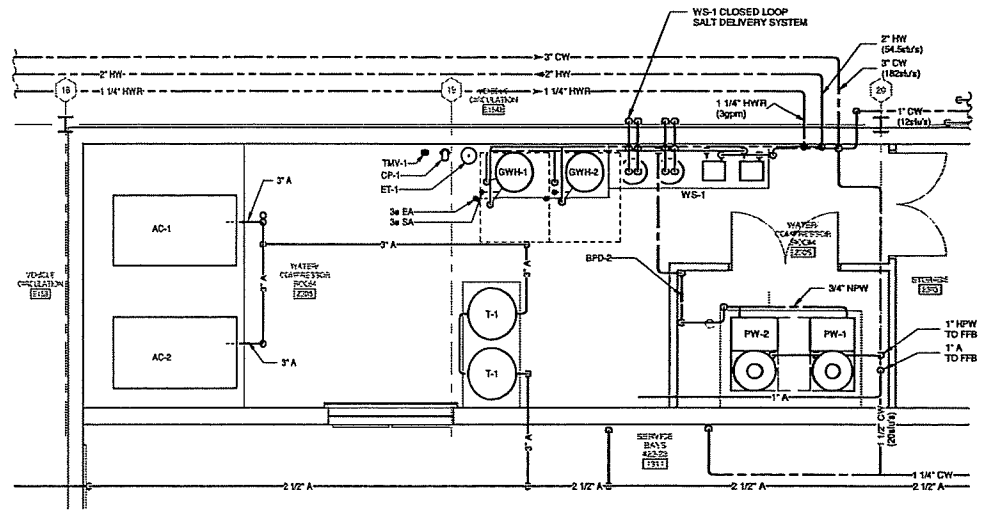
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P-131F



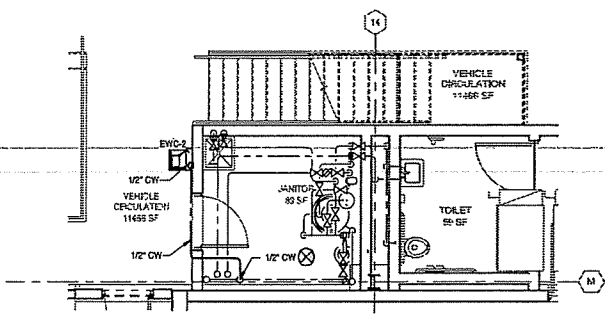
KEY PLAN

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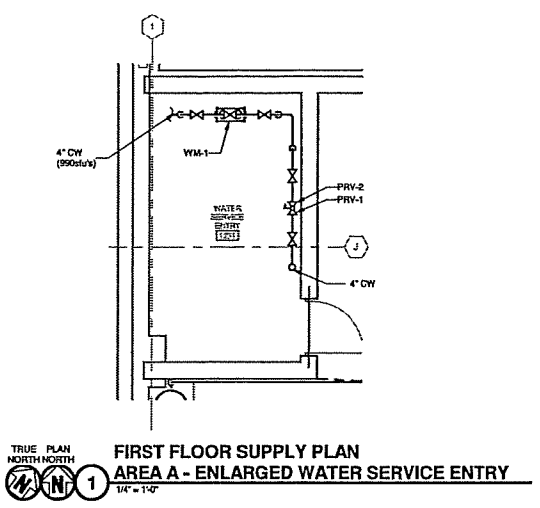
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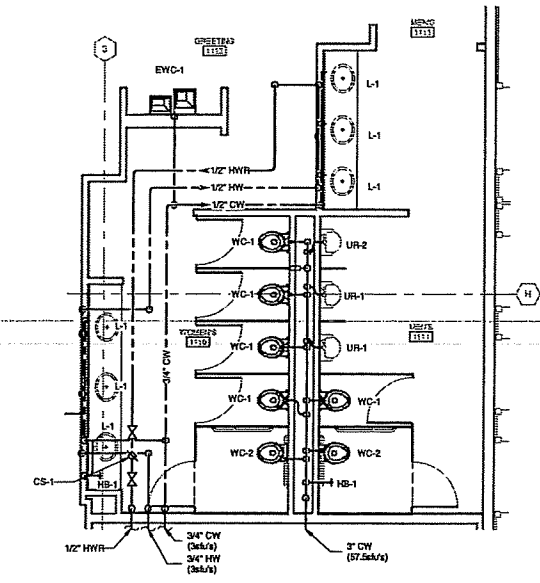
TRUE PLAN NORTH NORTH
4
 SECOND FLOOR DRAIN AND VENT PLAN
 AREA F - ENLARGED WATER COMPRESSOR ROOM
 1/4" = 1'-0"



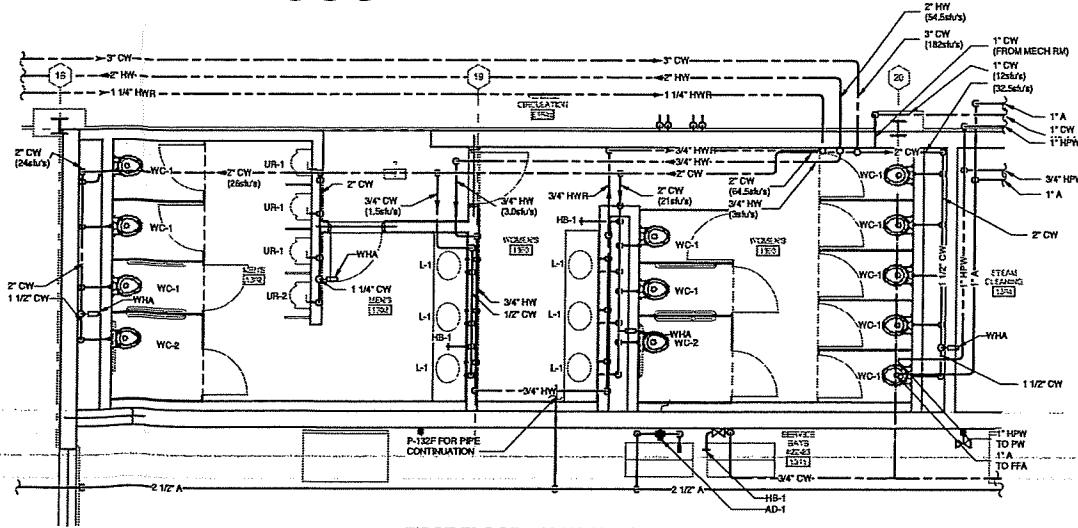
TRUE PLAN NORTH NORTH
5
 ABOVEGROUND SUPPLY PLAN
 AREA C - ENLARGED EWC
 1/4" = 1'-0"



TRUE PLAN NORTH NORTH
1
 FIRST FLOOR SUPPLY PLAN
 AREA A - ENLARGED WATER SERVICE ENTRY
 1/4" = 1'-0"



TRUE PLAN NORTH NORTH
2
 FIRST FLOOR SUPPLY PLAN
 AREA A - ENLARGED BATHROOM
 1/4" = 1'-0"



FIRST FLOOR - AREA F - ALTERNATE BID #1

1. SEE SPECIFICATION 01200 - ALTERNATES AND DRAWING G131, ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

TRUE PLAN NORTH NORTH
3
 FIRST FLOOR SUPPLY PLAN
 AREA F - ENLARGED BATHROOM
 1/4" = 1'-0"

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CONTRACT NO. 001
 MAX. NO. 450000-100866.03
 DATE: April 8, 2021
 DESIGNED BY: JET
 DRAWN BY: JHAM
 CHECKED BY: JHAM

SHEET CONTENTS
 ENLARGED PLANS
 SUPPLY PLUMBING

SHEET NO.:

P-431

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Engineering Division
Robert F. Phillips, P.E., City Engineer

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Deputy Division Manager
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Janet Schmidt, P.E.

Principal Engineer 1
Christina M. Bachmann, P.E.
Mark D. Moder, P.E.
James M. Wolfe, P.E.

Facilities & Sustainability
Bryan Cooper, Principal Architect

Mapping Section Manager
Eric T. Pederson, P.S.

Financial Manager
Steven B. Danner-Rivers

May 19, 2021

NOTICE OF ADDENDUM
ADDENDUM NO. 3
City of Madison, Engineering Department

CONTRACT NO. 8981

METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS

This addendum is issued to modify, explain or correct the original Drawings, Specifications, or Contract Documents marked as *Metro Transit Phase 3A–Maintenance and Driver Facility Improvements, City of Madison, Contract #8981, as issued on April 8th, 2021* and is hereby made a part of the contract documents.

This addendum consists of the following documents:

Please attach these Addendum documents to the Drawings (Exhibits A and B), Specifications (Exhibits B and C), and Proposal Specifications in your possession.

1. **GENERAL CONTRACT CONDITIONS**

A. None

2. **GENERAL QUESTIONS AND ANSWERS**

- A. On sheet S-151A, between grids G-I and 3-5 there are joists being added between the existing joists. During the walkthrough, it was observed that there are several mechanical, electrical, and plumbing conflicts in the spaces between the joists where new joists are to be added. See photo below as an example. The MEP drawings do not identify or address these conflicts. Please clarify what is to happen in these locations.
- i. Note 10 of the Roof Framing General Notes states "IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS.
 - ii. Most of the conduit shown is planned for demo. Coordinate trades to determine the appropriate course of work.
- B. Please clarify based on past phases and/or existing building information if the existing concrete slab on grade contains concrete reinforcement, welded wire reinforcement or no reinforcement.
- i. The 1979 drawings show: 6 ½" slab on compacted fill with WWF 66x44.
- C. Please clarify the following concerning Room 2121 on sheet A-102B
- i. Drawings seem to indicate a new partition (along with a dashed line) on the plan southwest of room. We can find indication of what this is to be.



- The indication for the partition is noted for information for the current communications room equipment layout. Partition will be provided in forthcoming project and is not part of the current construction package.
 - ii. The walk through did not go to this area. Can you confirm the construction of the existing plan northwest wall that contains call out note 4.117
 - Wall is of gypsum and metal stud construction.
 - iii. Note 4.116 is referenced. Can you confirm that intent of note is to mount panels “up to” 7’-0” AFF in lieu of “@” noted. Also considering question item a). above if just the perimeter walls get plywood or potentially the new “partition” on both sides too?
 - Plywood panels are to be mounted with the top at 7’-0.” Future wall is not part of the current project and will not require plywood.
- D. Please provide the TOW elevations for the loading dock retaining wall on drawing S-101A?
- i. The top of the foundation wall is the bottom of the slab. The slab is shown on S-111A. Top of wall elevations will be added to S-101A.
- E. Detail 15/S-501 calls out 2” rigid around the trench drain and dock ramp slab; however, on S-111A the dock slab is called out as SLB06. Should this slab be SLB06R or disregard the insulation requirement?
- i. The slab around the low end of the loading dock will stay SLB06. The underslab insulation is required as shown on details 15, 16 and 17 on S-501. SLB06R includes 2" of sand that is only needed for hydronic heating conduit. Hydronic heating is not needed at the loading dock and so the sand is not needed.
- F. Under the compressed air piping in 22 15 13 2.1A, would either the Champion Quick Lock and/or the Rapidair Fastpipe Aluminum piping systems be acceptable in lieu of the SCH40 steel currently called out?
- i. No. Provide 40 steel pipe as specified. Existing system is steel pipe and will need to be maintained until future phases occur.
- G. Will alternate vehicle lift manufacturers be acceptable?
- i. No. Steril-Koni is the only approved manufacturer for the in-ground lifts as the established building standard.
- H. Does the project want dual shades (both mesh and blackout) in the Training Room? And mesh only in the Breakroom? The only powered shades are in the Training Room, correct?
- i. Correct, Driver Training #1104 should have dual shades with 5% open mesh and black out fabric. Breakroom #1103 will only have the 5% open mesh - no black out fabric. You are also correct about powered shades only in the Training room.
- I. On sheet QD-101A note at 1.L line there is a note that states to “Demo Existing Flammable Tank Storage Construct Matching Chain Link Fence Enclosure at Location Per Equipment Plans”. There is also a mark note of #123 which just states flammable tank storage. We are unable to find “...at location per equipment plans” per the stated note on equipment plans or any reference on architectural plans. Please clarify what the flammable tank storage is, what size it is to be, what materials it is comprised of, and provide a specification section for chain link fence/posts if that is part of the storage construction.
- i. Existing flammable tank storage (denoted by #123 on sheet QD101A) is a chain link fence enclosure, and shall be demolished. A new flammable tank storage enclosure shall be constructed at the location shown on sheet Q101A, also denoted by #123. See sheet Q101A for typical fencing detail and enclosure layout. Material from the existing chain link fence



enclosure may be reused if they are in excellent condition (free of rust, defects, etc.) and compatible with new construction.

J. Spec Section 11 11 19 Lubrication Systems

- i. 1.4 E Talks about the mounting of the lube reel banks. After looking through the drawings, I see where Q102 notes that the mounting details are with the structural drawings. I went through the structural drawings and have been unable to find any specific info on the reel bracketing required for the lube reel banks that are to be hung from the ceiling. My experience tells me that these brackets could be very expensive depending on what is intended. Hoping you can provide a drawing of what is required.
 - Each reel will require a Lincoln Model 85242 Heavy Duty Reel Mounting Kit. This mounting kit will attach to the structural angles provided in detail 16/S-541 at each reel bank (also see sheets S-151C and S-151D, keyed note 3.507). Alternate reel manufacturers may require a unique mounting bracket.
- ii. 2.1 D states e-stops are to be supplied for a lube dispensing station. I do not see a tapper or other dispensing station shown. Can you clarify?
 - No tapping dispenser station is required.
- iii. 2.1 D 5 suggests that the Waste Oil tank requires an E-stop as well. But then 2.1 G 1 calls for a Lincoln Overfill Valve. Both of these seem redundant, and incorrect. A BJ Enterprise 007 Alarm with a 007SV solenoid valve at each pump would ensure the tank cannot be overfilled from the remote pumps.
 - The BJ Enterprise 007 Alarm with a 007SV solenoid valve at each waste air pump can be used to control overfill, no E-stop needed.
- iv. 2.1 G 1 calls for two Waste oil Eyac pumps (#135 on the equip schedule). I was able to locate these on Q101 C&D. I don't however see anything in area F. Assuming they do not want to manually transport waste oil from area F back to the other areas, should there be a pump station in area F also?
 - The only waste oil pumps required are the two shown. No pump is needed in the Maintenance B area.
- v. Is the lube piping required to be supported at a specific dimension? Typically the tubing Mfg states no more than 10' between supports, but I have seen jobs where they go over and above at as little as 4', which of course adds significant costs.
 - Tubing supports must meet the manufacturer's minimum requirements.

3. ACCEPTABLE EQUIVALENTS

- A. 11 11 19 Lubrication System
 - i. Samson
 - ii. Balcrank
- B. 12 24 13 Roller Window Shades
 - i. Springs
 - ii. WT
- C. 22 15 19 Air Compressors and Receivers
 - i. Part 2 – Products 2.2.A.1.d: PneuTech

4. SPECIFICATIONS

- A. Delete specification sections 07 95 00 Expansion Control and 07 95 13 Expansion Joint Cover Assemblies. Project does not include Expansion Joints.
- B. Specification section 11 11 19 Lubrication Systems (attached).



- i. Replace entire specification for modified requirements.
- C. Specification 22 15 19 Air Compressors and Receivers (attached),
 - i. Add PneuTech to list of acceptable manufacturers.
- D. Specification 27 15 13 Communications Copper Horizontal Cabling (attached),
 - i. Replace entire specification for modified requirements.
- E. Add Specification 27 51 16 Public Address Systems (attached).

5. DRAWINGS

A. Civil

- i. Drawing C-141 (attached), revise notes regarding water lateral connection detail requirements.

B. Structural

- i. Drawing S-001 (attached); Add control joint symbol to General Symbols
- ii. Drawing SD-101A (attached);
 - Add demolition of grade beam
 - Add demolition of additional slab on grade
- iii. Drawing SD-151A (attached); Add demolition of roof for mechanical opening
- iv. Drawing S-101A (attached)
 - Add top of retaining wall elevations at loading dock
 - Add short grade beams
- v. Drawing S-111A (attached)
 - Add slab on grade, interior
 - Add concrete end cap to landscape feature, exterior, at main employee entrance
- vi. Drawing S-131A (attached)
 - Added framing for vertical lift partitions; plan view and KN 3.321, 3.322, 3.323
 - Modified keyed note 3.302 (corrected sheet reference to S-531)
 - Modified Lintel Schedule (changed L20 bearing to 8")
- vii. Drawing S-151A (attached)
 - Added keyed notes; signage, framing clearance.
 - Change W24 beam size.
 - Modify keyed note 3.506
 - Add roof framed opening
 - Changed elevation of (3) W12x40 beams
- viii. Drawing S-151C (attached)
 - Modified keyed note 3.507 – added detail reference for Trapeze Framing.
- ix. Drawing S-151D (attached)
 - Modified keyed note 3.507 – added detail reference for Trapeze Framing.
- x. Drawing S-151F (attached)
 - Added Trapeze Framing near grid E19.
 - Added keyed note 3.507
- xi. Drawing S-501 (attached); Deleted rebar terminations on detail 5
- xii. Drawing S-511 (attached); Added detail 14
- xiii. Drawing S-541 (attached); Add weld to detail 12
- xiv. Drawing S-551 (attached); Added details 15, 16 and 18

C. Architectural

- i. Drawing A-101A (attached),
 - Add the coordination and details for the folding panel partitions.



- Add keynote 4.138 to concrete end of landscape wall near door 1101B.
- Add keynote 4.138.
- ii. Drawing A-102F (attached),
 - Revise keynote pointing at railings by door 2305B to 4.125.
 - Add keynote 4.125.
- iii. Drawing A-201 (attached),
 - West building elevation 1, revise keynote near door 1101B to 4.138.
 - Add keynote 4.138.
- iv. Drawing A-301 (attached), building section 4, revise detail to coordinate structural modification.
- v. Drawing A-312 (attached),
 - Revise Wall Section 4 for coordination of structure for the folding panel partition.
 - Add Wall Section 5 for coordination of structure for the folding panel partition.
- vi. Drawing A-501 (attached), revise detail 15 to coordinate structural modification.

D. Interiors

- i. Drawing I-101A (attached);
 - Add interior elevation symbol 10/I-403
 - Add enlarged plan detail symbol 22/I-501
 - Add enlarged plan detail symbol 23/I-501
- ii. Drawing I-121A (attached);
 - Remove all existing ceiling hatches from areas outside of work scope.
 - Add ACT-1 at 13'2 1/2" A.F.F. on both sides of operable vertical partition in Driver Training Room 1104.
- iii. Drawing I-403 (attached);
 - Add interior elevation 10/I-403 and label the elevation "General Break Room Wood Wall"
- iv. Drawing I-404 (attached);
 - Detail 1, change text "Powered double roller w/ black out and mesh window shades" to "Powered double roller WSHD-1 and WSHD-2"
 - Detail 5, add section cut 20/I-501 showing WD-1 @ GWB ceiling.
 - Detail 6, change text "Banquette base PMTL-1" to "Banquette base WB-1"
 - Detail 6, add label "Electrical outlets in toe; see electrical for locations and spacing" pointing to electrical outlet.
 - Detail 6, remove furniture in elevation, show routed wood toe base pattern and electrical outlets, and dimension distance from routed openings to electrical outlets.
- v. Drawing I-501 (attached);
 - Detail 8, show routed wood toe base and change text "Perforated PMTL-1 base" to "Routed WB-1 base".
 - Detail 8, add detail call out at routed toe base.
 - Add detail 18/I-501 and label the detail "WD-1 @ ACT-1"
 - Add detail 19/I-501 and label the detail "WD-1 @ Banquette Ceiling Element"
 - Add detail 20/I-501 and label the detail "WD-1 @ GWB"
 - Add detail 21/I-501 and label the detail "Banquette Routed Base".
 - Add detail 22/I-501 and label the detail "WD-1 @ Mullion Wall & Corner".
 - Add detail 23/I-501 and label the detail "WD-1 @ GWB Wall".
- vi. Drawing I-601 (attached);
 - Interior finishes schedule
 - Remove row for finish number PMTL-1. PMTL-1 will not be used in this project.
 - Add finish number "WB-1" with finish description "Wood Base – Type



- 1”, color “Stain black/brown”, size “6”, and remarks “Banquette routed toe base with marine wood finish; stain color to be approved”.
 - o Finish number WSHD-1 add remarks “Draper Inc. PW3570 or equal”.
 - o Finish number WSHD-2 add remarks “Draper Inc. SW7000-V40 or equal”.
- Add General Finish Note 6, “Stair treads, risers, and landings to be RFT-2”.

E. Equipment

- i. Drawings Q-101A (attached), provide fenced flammable storage area as shown.

F. Electrical

- i. Drawing E-601 (attached): In Luminaire Schedule add the following acceptable manufactures as follows: Des; A1, D1, DK1, J1, K2, L1, L3, N6, N11 and S1: Elite Lighting, Des; L2 and L4: Metalumen Manufacturing Inc., Des; OA1: Atlantic Lighting, Des; OA2; LSI Industries, DES; P1: National Lighting Company, Des; P2, P3 and P4: Lightway Industries, Des; Q1: TPR Enterprises and Des; X1, X2: LightAlarms.

G. Technology

- i. Drawing T-101A (attached), room 1108, remove extraneous outlet.

6. PROPOSAL AND CONTRACT SPECIFICATIONS

- A. None.

Please acknowledge this addendum in Section E on page E-1: Bidder’s Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at <https://www.bidexpress.com/> and the City of Madison web site at <http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 to receive the material by another method.

For questions regarding this bid, contact:

Mead & Hunt, Inc.

Rich Lundeen, AIA, Project Manager
PH: 608-443-0529
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City of Madison

Jon Evans, PE, Project Manager
PH: 608-243-5893
Email: jevans@cityofmadison.com

Sincerely,

Robert F. Phillips, P.E., City Engineer

**SECTION 11 11 19
LUBRICATION SYSTEMS**

PART 1 - GENERAL

1.1 SCOPE

- A. Applicable provisions of the General and Supplementary Conditions and Division 01 govern work under this Section.

1.2 RELATED WORK

- A. Division 22
B. Division 26

1.3 DESCRIPTION

- A. Furnish and install a complete inside "lubrication system" as herein described and shown on drawings. The system is an extension of the existing system. This shall include all items necessary to complete the installation and as usually included in similar work whether specifically mentioned in the Contract Documents or not, including:

1. Lubrication reels
2. Piping, fittings and valves
3. Pipe support
4. Equipment mounting and support
5. Lube pumps
6. Lube tanks (existing to be reused)
7. Installation
8. Adapters
9. Emergency Shut Off
10. Vehicle Oil Pump (Waste Oil System)
11. Low voltage wiring and components for controls/alarms

- B. The entire project shall be designed, fabricated and installed by a contractor with not less than five years of installation experience with projects of this type and size.
- C. This Contractor shall hire all other trades as required to complete this project.
- D. All piping in building to run as high as possible, verify locations of all HVAC, electrical, plumbing, piping, ductwork, and fire protection piping.
- E. Component and coordination of this system with fluid control system.

1.4 MISCELLANEOUS EQUIPMENT AND INSTALLATION SPECIFICATIONS

- A. This system shall be bid on an installed basis by a qualified and experienced contractor with five years experience in the installation of centralized lubrication systems.

- B. Lubrication system piping shall be of size required for proper function of systems, piping shall be annealed steel tubing and matching fittings.
- C. All reels and pumps shall have shut-off valves and union connections.
- D. The piping shall be installed as per the manufacturer's installation instructions and good practice as noted on the plans. The manufacturers' installation procedure shall be completely followed by the contractor.
- E. The reels shall be mounted and secured to a heavy duty mounting assembly attached directly to the wall, structure, or column and extending down to 16' above the floor in the repair shop and on the supports in the vehicle parking area. One portion of the procedure is being emphasized as follows, but in no way minimizes the remaining manufacturers' installation instructions.
- F. One portion of the procedure is being emphasized as follows, but in no way minimizes the remaining manufacturers' installation instructions.
 - 1. Blow all air lines clean before making final equipment connections.
 - 2. Flush lubricant lines with non-flammable cleaner to remove foreign materials.
 - 3. Do not install control valves before flushing.
 - 4. Each line shall be flushed with the pump to be used on the line.
 - 5. After the lines are flushed, install control valves and pressure test with line under pressure. Check all connections and fittings for leakage.
 - 6. Adjust the hose ball stops so valves hang 7' from floor.

1.5 DRAWINGS

- A. Contractor shall design a system based on equipment locations shown on drawings. Contractors shall use Architectural and Mechanical drawings to do so, coordinate locations with all other contractors, verify equipment, duct, electrical and plumbing locations.
- B. Intent: It is the intent and the requirement of these Contract Documents, including Specifications, to provide finished work, complete in all respects and ready for operation by the Owner.
- C. It is the Contractor's responsibility to review all materials and equipment hereinafter specified or indicated on the Architectural drawings with regard to their proper operation and compliance with all governing Codes and then include in his bid proposal all materials required to provide the Owner with a completely approved and operating system whether or not all items have been specifically mentioned herein.
- D. Any dimensions given in figures on the drawings and details regarding the locations and configuration of any part of this work shall take precedence over dimensions and locations obtained by scaling the drawings. All dimensions, whether given in figures or scaled from the drawings, shall be field verified by the Contractor prior to fabricating any materials or ordering any equipment.
- E. The contractor shall design working shop drawings for review and coordination.

1.6 CODES AND APPROVALS

- A. Comply with all codes, laws and ordinances of all governing bodies having jurisdiction over this work. In the event that the requirements of any of the codes, laws or ordinances conflict with these Contract Documents the more stringent requirements shall govern the Contractor.
- B. This entire installation shall be in complete compliance with guidelines set forth in:
 - 1. N.F.P.A. - latest edition and all other applicable N.F.P.A. Standards.
 - 2. Applicable Local Codes.
 - 3. Fire insurance requirements. (Rating Bureau and Owners)
 - 4. State Codes.
 - 5. Local Codes.
- C. Secure all required permits and pay all fees.

1.7 SUBMITTALS

- A. Submit to the Engineer, preliminary layout and detail drawings with pipe locations and sizes, as specified hereinafter, for approval as to compliance with contract intent.
- B. Submit layout drawings, details and calculations of the system design to Engineer. Engineer shall approve these submittals prior to fabrication or installation of any materials by the contractor and proof of such approval shall be submitted to the Architect.
- C. The above-mentioned submittal shall be submitted in triplicate and shall include catalog cut sheets on the following:
 - 1. All equipment, fittings, pipe, hangers, etc.

1.8 MATERIALS AND WORKMANSHIP

- A. All materials furnished for this work shall be suitable for use on this type of installation.
- B. All work shall be guaranteed for one year from the date of final acceptance by the Owner against defective materials and careless workmanship.
- C. Contractor shall patch the holes made necessary by this work and provide sleeves and waterproof members for any protrusions of the exterior building walls.

1.9 RECORD DRAWINGS

- A. Upon completion of the project the Contractor shall provide the Owner with three (3) sets of Record Drawings updated to reflect any field changes that may have been made to the shop drawings.
- B. Contractor shall review the system installation with the Owner or his representative and instruct him as to the proper care and maintenance procedures. This instruction should include providing all instruction charts describing operation and proper maintenance.

PART 2 - PRODUCTS

2.1 EQUIPMENT

A. General:

1. All hose reels located in the lube reel banks, Lube dispensing Station, control valves and pumps shall be matched to a single source manufacturer.

B. Equipment by Lincoln, Graco, Samson, Balcrank or pre-approved equal shall be used.

C. Reels:

1. Reels shall be rated "heavy duty" with single pedestal and hose roller arms, permanently lubricated bearings, extra-large ratchet latch, fully ported swivel, be capable of retracting a minimum of 50' x 1/2" hose, carry a minimum one year limited parts and labor warranty, and have metal product identification tags.
2. Bulk Fluid #1, Bulk Fluid #2, Bulk Fluid #3, Bulk Fluid #4 and Anti Freeze.

- a. #83464-50 Lincoln 50' x 1/2" 2250 psi WP hose
- b. Lincoln Hose Inlet Kit
- c. #769 Lincoln Control valve
- d. #768 Lincoln Control valve
- e. ~~#Lincoln Solenoid valve with ready lights at all reels~~
- f. #Lincoln Medium pressure inlet hose kit (comes with hose Reel)
- g. #Lincoln Lubricant Filter
- h. #66084 Lincoln 2,000 psi shut-off ball valve
- i. #Lincoln Non-metered dispensing valve
- j. #3867 Lincoln metering control valve, 60 quart, preset countdown.(to be used at each Stations, 35 reels)
- k. #85242 Lincoln Heavy Duty Reel Mounting Kit

D. Emergency Shut off for Each Set of Hose Reels, Lube Dispensing Station and Waste Oil Tank:

1. This contractor shall add normally open air solenoid valves, panic push button for shut off and wiring from push button to solenoid valves to shut off supply air to air pumps. Connect solenoid to nearest power circuit.
2. System shall operate by closing air solenoid valves at air pump inlets when panic button is pushed. Shutting down the air system is also an acceptable emergency shut off method.
3. Include sign indicating "emergency shut off for lubrication reels." (d)
4. Locations: Mount panic button on wall or support at 4' above floor near lube areas. Two panic buttons will be required: one on the column at grid lines G and 9, and a second panic button in maintenance B along the west wall, between the two overhead doors
5. The waste oil tank should have an auto shut off when it reaches 95% full. This should be done by interrupting the air supply only to the waste oil tank via an air solenoid at the tank and each pump station.

E. Pumps

1. At EACH group of lube reels (7 locations)
2. All pumps shall have a minimum 4" diameter air motor size and the lubrication pumps shall have a limited parts and labor warranty.
3. General Lubrication: Fluid #1, Bulk Fluid #2, Bulk Fluid #3, Bulk #4 and Anti Freeze

Quantity	Part #	Description
4	2014	Lincoln Powermaster 3, 10:1 ratio stub pump with 4" diameter air motor and 6" stroke and built-in air muffler with remote wall mount brackets/supports
1	85627	For antifreeze, 1:1 air-operated diaphragm pump with wall mount brackets/supports
5	74024	Lincoln 2' air connect hose
4	1230060	Lincoln 5' x 3/4" product hose
1	1625060	for antifreeze, Lincoln 5' x 1" product hose
5	83132	Lincoln Bung adapter
5	82439	Lincoln low-level cut off
5		Thermal relief valves
5	Local	Suction tubes for between pump and low level cutoff High pressure valves

- a. As needed: suction and pressure hosed for remote location of pumps.
- b. Other miscellaneous items for proper system function.

4. Miscellaneous Pump Accessories

Quantity	Part #	Description
5	83168	Lincoln 1/2" air regulator and gauge
5	70332	Lincoln 3/4" product shut off ball valve
5	66084	Lincoln 1/2" pump air shut off ball valve
5	6600112	Lincoln 3/4" airline filter
5	600212	Lincoln 3/4" airline lubricator
5	70332	Lincoln 3/4" shut-off ball valve for main airline

F. Above Ground Tanks (existing Tank will be reused)

G. Vehicle Oil Pump (Waste Oil pump), 2 Stations,

1. A UL listed evacuation pump is to be mounted on wall 48" above the floor and include air filter, regulator, oiler, 6' x 3/4" suction hose, quick disconnect couplers, shut off valves and back check valves.

Quantity	Part #	Description
2	4100	Lincoln UL evacuation kit. Includes: a 1" inlet UL double
2	256200	Lincoln 1/4" air valve

2	84824	Lincoln overfill warning valve for double wall Tank or
2	72060	Lincoln 5' air connecting hose
2	Local	Local Y-strainer
2	241408	Lincoln 1" fluid coupler
2	613	Lincoln portable waste oil receiver
2	66493	Lincoln 16 gallon drum with threaded hole base
2	84714	Lincoln 20 gallon portable waste oil truck cart
2	241409	Lincoln 1" fluid nipple
2		Air shut off valves

- a. Other miscellaneous items required for proper system function

H. Piping:

1. Vehicle Oil Piping: Black steel ASTM A53 threaded pipe
2. All piping shall be as required for intended use and per industry standards.
3. Piping:

- a. Oil, etc.: 1" OD steel tubing with a wall thickness of 0.083" with matching joint systems is the minimum piping size – final size by this contractor.

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

- A. Inspection: Prior to all work of this Section, carefully inspect the installed Work of all other trades and verify that all such Work is complete to the point where this installation may properly commence. Verify that lubrication systems shall be installed in strict accord with all pertinent codes and regulations and the approved Shop Drawings.
- B. Discrepancies: In the event of discrepancy, immediately notify the Architect for clarification and await his decision before proceeding.

3.2 INSTALLATION

A. Openings, Cutting, Sleeves and Repairing:

1. The Contractor shall do all necessary openings, required to install all piping, fixtures and equipment. Only saw cutting or core drilling will be allowed. All piping shall be concealed wherever possible.
2. All openings or holes shall be sleeved.
3. Provide as necessary to permit installation of piping or any other part of the Work under this Section. Cooperate with other trades and adjust with them, subject to Architect's review, all questions of interference, right-of-way for piping, etc. Make all arrangements with various Contractors for any special framing or chases.
4. All openings or holes thru new walls, floors, ceiling or footings shall be sawcut or core drilled.

5. Openings around pipes penetrating required fire resistance rated floor, wall and roof assemblies shall be filled solidly with material of fire-resistance rating equal to the required rating of assembly penetrated.
6. On all pipes passing through floors, walls and ceilings, provide chrome plated brass escutcheons of approved design and finish having outside diameter to cover sleeved openings and inside diameter to fit pipe. Securely fasten in place to floors, walls and ceilings.
7. Holes through exterior walls shall be waterproofed and made watertight.
8. The Contractor shall patch and return to original condition all areas damaged, sawcut, core drilled, etc. on this project and site.
9. All holes, openings, etc. cut through any reinforced concrete must be drilled with care so as to avoid spalling and unnecessary damage or weakening of the structural members. Chopping or breaking out will not be permitted. BEFORE cutting or drilling, permission must be obtained from Architect and any damage shall be repaired to Architect's satisfaction. Holes for piping through floors and walls already in place will be by means of core drilling.
10. Provisions for openings, holes, chases and clearances through walls, floors, ceilings, etc. in new construction shall be made in advance of construction of such parts of the building. The openings shall be provided by others during construction of the building, but it shall be the responsibility of the Contractor to furnish the applicable Contractor with all openings, dimensions and sleeves where required for installing this Work. These dimensions shall size and locate the opening sites. If the Contractor neglects to inform the other Contractors of opening requirements before that portion of the building has been constructed, the Contractor shall, at his own expense, cut his own opening and provide framing and lintels as required and approved by the Architect.
11. Sleeves shall be SCH 40 galvanized iron, except pipes passing through floors shall have steel sleeves extended one inch above finished floors. Sleeve shall be 1/2 inch larger than piping. Seal in open space around sleeve with caulking rope and finish with caulking to level of sleeve. Sleeves in outside wall shall be galvanized steel pipe, Schedule 40. 1 inch larger than piping, seal with oakum and finish with caulking to level of sleeve. Take special care in core drilling thru concrete floors so as not to spill water below and cause damage.
12. This contractor shall protect existing/New building, structure, drives, walks, equipment, etc. and furnishings when sawcutting, core drilling or installing this work.

B. Electrical Work:

1. Contractor shall see that starters are properly located allowing for easy access and where ambient temperatures do not exceed normal room temperatures. Starters should not be secured to equipment, but instead to walls in close proximity to equipment.
2. Where walls are not available, provide steel sandwich panels mounted on pipe legs and floor flange.
3. Contractor shall furnish: All motors in connections with this work, starters for all motors, overload protection for all motors and wiring diagrams, mercury float switches with 20' wire.
4. This Contractor shall provide: All conduit, wiring and connectors of all requirements for all equipment requiring electrical service, all remote control devices including starters and final wiring connections.

C. Painting and Finishes:

1. Painting will be done by others.
2. Structural iron, iron pipe supports, platforms exposed pipe hangers, etc. provided by this Contractor and any equipment which is not furnished with an enamel finish shall be wire brushed free of rust, scale, etc., and given one coat of aluminum colored "Rustoleum" paint by a Journeyman Painter under the employ of the Contractor.
3. Any surfaces of equipment in these areas where finish has been rusted or destroyed shall be refinished.
4. The piping included as part of section (2.1)(H) of this specification section does not need to be painted.

D. General Pipe Work:

1. All piping shall be cleaned before installation by blowing out with compressed air or by other approved method. Provide temporary plugs or cap for all open ends of pipe and fixture when work is not being carried on to completion.

E. Lubrication System Layout:

1. General:

- a. Layout the lubrication system in careful coordination with the approved Shop Drawings, determining proper elevation for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system.
- b. Diagrammatic layouts for water, soil and vent piping are intended as a guide only and do not relieve the Contractor of any and all requirements of the State and Local Codes.

2. Information given herein and on Drawings is as exact as could be secured. Size and location shown are taken from the field survey. This Contractor must, therefore, examine location carefully and verify all measurements, distances, levels, etc. before starting work.
3. Wherever the location of piping of equipment is governed by architectural features, this Contractor shall establish their location by referring to the General Drawings; he shall not scale the Drawings for exact dimensions.
4. Services: Locations of services are approximate, and Contractor shall:
 - a. Check existing locations, elevations and pitches of present piping before making connections to same;
 - b. Report immediately to Architect in writing any existing conditions which will prohibit the installation of new work;
 - c. Await Architect's decision on approximate adjustment of line locations and elevations before proceeding.
5. In event Drawings and Specifications are not in full accord and alterations, additions or deductions are necessary or exception in regard to size of equipment, notify Architect immediately, in writing and await his decision.

6. These Specifications and the accompanying Drawings are intended to provide for a finished and complete lubrication system.

3.3 FIELD QUALITY CONTROL

A. Tests:

1. General:

- a. All tests and trials requested or directed by the Architect must be made by the Contractor without additional cost before acceptance of the Work.
- b. Furnish all test pumps, gauges, equipment, and personnel required and test as necessary to demonstrate the integrity of the finished lubrication installation to the approval of all pertinent authorities and the Architect.

2. The contractor shall conduct tests of systems as required by codes, regulatory agencies, and this specification. Tests shall be made with the medium and under pressure as stated in the test requirements. Notify the Engineer and regulatory agencies prior to conducting tests. Contractor shall complete the attached certification form and submit to the Engineer when tests have been completed.

Type of System	Gauge Pressure	Medium
Lube Piping	150% of Normal Static Pressure	Air

3. The pressure in pounds per square inch, gauge, are given as an initial pressure to be applied to lines being tested, together with test medium. Tests are to be applied for a minimum period of four (4) hours and until tests are complete. Final pressures at the end of test period may vary only by that caused by expansion of the test medium due to temperature changes.
4. Check of systems during application of test pressures should include visual check for water medium leakage, soap bubble or similar for air and nitrogen medium.
5. This Contractor shall include all temporary caps, plugs, valves, fittings, air bleeds, etc. as required for tests.
6. Architect's Right to Retesting
 - a. Should the Contractor refuse or neglect to make any tests necessary to demonstration of the integrity of the completed system, the Architect may retain the services of an outside consultant to make all such tests and their resulting adjustments and balance.
 - b. The cost for such tests shall be deducted from amounts owing to the Contractor and shall not be borne by the Owner.

3.4 ADJUSTMENT AND CLEANING

- A. As completion of the Work, remove protective material from all lubrication equipment and piping, all paint and plaster splatterings and clean the fixtures and equipment. They are to be left and ready for use.

- B. Make good and pay for glass breakage, plaster patching and repairs to all other finished Work caused by this installation. Contractor shall patch and return to original condition all floors, walls, ceiling, etc., damaged as a result of his work.
- C. Rubbish removal as directed by Architect during progress of Work and at time of completion. Leave building and premises in clean, orderly condition.

3.5 HOLES THRU FIRE WALLS

- A. Comply with all State and Local Codes with regard to all pipe types passing thru fire walls and rated rooms.

3.6 PIPE IDENTIFICATION

- A. Identify all mechanical equipment with nameplate bearing equipment name and number, using 1½" white Bakelite with ½" black letters permanently mounted in a conspicuous place. Use mechanical fasteners instead of adhesive to mount nameplates wherever possible.
- B. Markings. Each piping system furnished and installed shall be identified. The direction of flow shall be indicated by means of stenciled legends and flow arrows. The marking shall be applied after all painting and cleaning of the piping and insulation is completed.
- C. Location. The legend and flow arrow shall be applied at all valve locations at all points where piping enters or leaves a wall, partition, bulkhead, cluster of piping, or similar obstruction and at approximately 30 feet intervals on pipe runs with at least one in each space or room. Color shall be verified with Owner with stencils sized as follows: Over 2" - 1" high; 2" and under - ½" high. The marking shall be located so as to be conspicuous and legible at all times from any reasonable point.
- D. Valve Charts and Tags. Valve charts will be provided for each piping system. They shall consist of schematic drawings of piping layouts, which show and identify each valve and describes its function. Upon completion of the work, two copies of each chart, sealed to rigid backboard with clear lacquer under glass and framed, shall be mounted in the mechanical room where directed by the Owner. Valve lists shall be furnished as required. Provide 1 ¼" plastic or brass tags with ¼" letters for all valves. Attach tags to valve handles by chrome plated "S" hooks. Furnish printed lists showing valve number, service, and location in each copy of Owner's Service Manual. Tags equal to Seton #2960 are acceptable.
- E. Identification Symbol types and colors shall be verified with Owner.

3.7 PIPE HANGERS AND SUPPORTS

- A. This Contractor shall be responsible to support and hang this work in a proper manner as per all codes and jobsite requirements.

END OF SECTION 11 11 19

**SECTION 22 15 19
AIR COMPRESSORS AND RECEIVERS**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Standard Specifications, Proposal Documents, Special Provisions, Supplemental Specifications, Bid Item Manual and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
1. Lubricated, reciprocating air compressors.

1.3 DEFINITIONS

- A. Actual Air: Air delivered from air compressors. Flow rate is delivered compressed air measured in acfm.
- B. Standard Air: Free air at 68 deg F and 1 atmosphere (29.92 in. Hg) before compression or expansion and measured in scfm.

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Operation and Maintenance Data: For compressed-air equipment to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. ASME Compliance: Fabricate and label receivers to comply with ASME Boiler and Pressure Vessel Code.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR PACKAGED AIR COMPRESSORS AND RECEIVERS

- A. General Description: Factory-assembled, -wired, -piped, and -tested; electric-motor-driven; air-cooled; continuous-duty air compressors and receivers that deliver air of quality equal to intake air.
- B. Control Panels: Automatic control station with load control and protection functions. Comply with NEMA ICS 2 and UL 508.
 - 1. Enclosure: NEMA ICS 6, Type 12 control panel unless otherwise indicated.
 - 2. Motor Controllers: Full-voltage, combination magnetic type with under voltage release feature and motor-circuit-protector-type disconnecting means and short-circuit protective device.
 - 3. Control Voltage: 120-V ac or less, using integral control power transformer.
 - 4. Motor Overload Protection: Overload relay in each phase.
 - 5. Starting Devices: Hand-off-automatic selector switch in cover of control panel, plus pilot device for automatic control.
- C. Mounting Frame: Fabricate mounting and attachment to pressure vessel with reinforcement strong enough to resist packaged equipment movement during a seismic event when base is anchored to building structure.

2.2 ROTARY-SCREW AIR COMPRESSORS

A. Rotary-Screw Air Compressors:

- 1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Ingersoll Rand.
 - b. Kaeser.
 - c. Quincy.
 - d. PneuTech
- 2. Description: Packaged unit.
- 3. Air Compressor(s): Single-stage, oil-free, rotary-screw type with nonlubricated helical screws and lubricated gearbox, and of construction that prohibits oil from entering compression chamber.
 - a. Cooling/Lubrication System: Unit-mounted, air-cooled exchanger package pre-piped to unit; with air-pressure circulation system with coolant stop valve, full-flow coolant filter, and thermal-bypass valve.
 - b. Air Filter: Dry type, with maintenance indicator and cleanable replaceable filter element.
 - c. Air/Coolant Receiver and Separation System: 150-psig- (1035-kPa-) rated steel tank with ASME safety valve, coolant-level gage, multistage air-coolant separator element, minimum pressure valve, blowdown valve, discharge check valve, coolant stop valve, full-flow coolant filter, and thermal-bypass valve.
 - d. Capacity Control: Capacity modulation between zero and 100 percent air delivery, with operating pressures between 60 and 135 psig (345 and 690 kPa). Include necessary control to hold constant pressure. When air

demand is zero, unload compressor by using pressure switch and blowdown valve.

- e. Mounting: Freestanding.

4. Sound-attenuation enclosure.

B. Capacities and Characteristics:

- 1. Compressed-Air Service: Shop air.
- 2. Air Compressor(s): One.
- 3. Standard-Air Capacity of Each Air Compressor: 335 scfm (standard L/s) free air.
- 4. Actual-Air Capacity of Each Air Compressor: 300 acfm (actual L/s) delivered.
- 5. Discharge-Air Pressure: 135.
- 6. Discharge-Air Temperature: 100° F (deg C) or less.
- 7. Motor (Each Air Compressor):

- a. Horsepower: 75.
- b. Speed: 1531 rpm.

8. Electrical Characteristics:

- a. Volts: 460.
- b. Phase(s): Three.
- c. Hertz: 60.
- d. Full-Load Amperes: 101.
- e. Maximum Overcurrent Protection: 150 amperage.

2.3 RECEIVER TANK

A. Steel tank constructed according to ASME Boiler and Pressure Vessel Code: Section VIII, Division 1.

- 1. Orientation: Vertical Arrangement.
- 2. Capacity: See drawing schedule.
- 3. Interior finish: Epoxy.
- 4. Pressure Rating: 165psig minimum.
- 5. Pressure Regulator Setting: 135psig.
- 6. Pressure Relief Valve Setting: 137psig.
- 7. Accessories: Include safety valve, pressure gage, drain, and pressure-reducing valve.

2.4 MOTORS

A. Comply with NEMA designation, temperature rating, service factor, enclosure type, and efficiency requirements for motors specified.

- 1. Motor Sizes: Minimum size as indicated. If not indicated, large enough so driven load will not require motor to operate in service factor range above 1.0.
- 2. Controllers, Electrical Devices, and Wiring: Comply with requirements for electrical devices and connections specified in Division 26 Sections.

PART 3 - EXECUTION

3.1 EQUIPMENT INSTALLATION

- A. Equipment Mounting: Install air compressors and air dryers anchored to concrete bases using elastomeric pads. Comply with requirements in Division 03 Section "Cast-in-Place Concrete."
- B. Arrange equipment so controls and devices are accessible for servicing.
- C. Maintain manufacturer's recommended clearances for service and maintenance.
- D. Install the following devices on compressed-air equipment:
 - 1. Pressure Gage and Safety Valve: Install on each compressed-air receiver.
 - 2. Pressure Regulators: Install downstream from air compressors and dryers.
 - 3. Automatic Drain Valves: Install on filters and dryers. Discharge condensate over nearest floor or open site drain.

3.2 CONNECTIONS

- A. Comply with requirements for piping specified in Division 22 Section "Compressed Air Piping." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Install piping adjacent to machine to allow service and maintenance.

3.3 IDENTIFICATION

- A. Identify general-service air compressors and components. Comply with requirements for identification specified in Division 22 Section "Identification for Plumbing."

3.4 STARTUP SERVICE

- A. Perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.
 - 2. Verify that air-compressor inlet filters and piping are clear.
 - 3. Check for equipment vibration-control supports and flexible pipe connectors and verify that equipment is properly attached to substrate.
 - 4. Check safety valves for correct settings. Ensure that settings are higher than air-compressor discharge pressure but not higher than rating of system components.
 - 5. Drain receiver tanks.
 - 6. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - 7. Test and adjust controls and safeties.

3.5 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain air compressors and dryers.

END OF SECTION 22 15 19

**SECTION 27 15 13
COMMUNICATIONS COPPER HORIZONTAL CABLING**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:

1. Category 6 twisted pair cable.
2. Twisted pair cable hardware, including plugs and jacks.
3. Cable management system.
4. Cabling identification products.
5. Grounding provisions for twisted pair cable.
6. Source quality control requirements for twisted pair cable.

1.3 DEFINITIONS

- A. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.
- B. EMI: Electromagnetic interference.
- C. FTP: Shielded twisted pair.
- D. F/FTP: Overall foil screened cable with foil screened twisted pair.
- E. F/UTP: Overall foil screened cable with unscreened twisted pair.
- F. IDC: Insulation displacement connector.
- G. LAN: Local area network.
- H. Jack: Also commonly called an "outlet," it is the fixed, female connector.
- I. Plug: Also commonly called a "connector," it is the removable, male telecommunications connector.
- J. RCDD: Registered Communications Distribution Designer.
- K. Screen: A metallic layer, either a foil or braid, placed around a pair or group of conductors.
- L. Shield: A metallic layer, either a foil or braid, placed around a pair or group of conductors.

- M. S/FTP: Overall braid screened cable with foil screened twisted pair.
- N. S/UTP: Overall braid screened cable with unscreened twisted pairs.
- O. UTP: Unscreened (unshielded) twisted pair.

1.4 COPPER HORIZONTAL CABLING DESCRIPTION

- A. Horizontal cable cabling system shall provide interconnections between Distributor A, Distributor B, or Distributor C, and the equipment outlet, otherwise known as "Cabling Subsystem 1," in the telecommunications cabling system structure. Cabling system consists of horizontal cables, intermediate and main cross-connects, mechanical terminations, and patch cords or jumpers used for horizontal-to-horizontal cross-connection.
 - 1. TIA-568-C.1 requires that a minimum of two equipment outlets be installed for each work area.
 - 2. Horizontal cabling shall contain no more than one transition point or consolidation point between the horizontal cross-connect and the telecommunications equipment outlet.
 - 3. Bridged taps and splices shall not be installed in the horizontal cabling.
- B. A work area is approximately 100 sq. ft. (9.3 sq. m), and includes the components that extend from the equipment outlets to the station equipment.
- C. The maximum allowable horizontal cable length is 295 feet (90 m). This maximum allowable length does not include an allowance for the length of 16 feet (4.9 m) to the workstation equipment or in the horizontal cross-connect.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Reviewed and stamped by RCDD.
 - 1. System Labeling Schedules: Electronic copy of labeling schedules, in software and format selected by Owner.
 - 2. System Labeling Schedules: Electronic copy of labeling schedules that are part of the cabling and asset identification system of the software.
 - 3. Cabling administration Drawings and printouts.
 - 4. Wiring diagrams and installation details of telecommunications equipment, to show location and layout of telecommunications equipment, including the following:
 - a. Telecommunications rooms plans and elevations.
 - b. Telecommunications pathways.
 - c. Telecommunications system access points.
 - d. Telecommunications grounding system.
 - e. Telecommunications conductor drop locations.
 - f. Typical telecommunications details.
 - g. Mechanical, electrical, and plumbing systems.

- C. Twisted pair cable testing plan.
- D. Samples: For telecommunications jacks and plugs, in specified finish, one for each type and configuration.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For RCDD, installation supervisor, and field inspector.
- B. Product Certificates: For each type of product.
- C. Source quality-control reports.
- D. Field quality-control reports.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For splices and connectors to include in maintenance manuals.
- B. Software and Firmware Operational Documentation:
 - 1. Software operating and upgrade manuals.
 - 2. Program Software Backup: On USB media or compact disk, complete with data files.
 - 3. Device address list.
 - 4. Printout of software application and graphic screens.

1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Connecting Blocks: One of each type.
 - 2. Faceplates: One of each type.
 - 3. Jacks: Ten of each type.
 - 4. Patch-Panel Units: One of each type.
 - 5. Plugs: Ten of each type.

1.9 QUALITY ASSURANCE

- A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.
 - 1. Layout Responsibility: Preparation of Shop Drawings and cabling administration Drawings, cabling administration Drawings, and field testing program development by an RCDD.
 - 2. Installation Supervision: Installation shall be under the direct supervision of Technician, who shall be present at all times when Work of this Section is performed at Project site.
 - 3. Testing Supervisor: Currently certified by BICSI as an RCDD to supervise on-site testing.
 - 4. The Contractor shall have experience in the installation and testing of similar systems as specified in the plans and specifications for this contract.

5. The Contractor shall have completed at least 2 projects of similar size and scope within the last 24 months.
6. The contractor shall provide references upon request. Information to provide shall include project name, address, date of installation, client name, title, telephone number, and project description.
7. The Contractor shall be certified by the connectivity manufacturer to install, service and warranty the specified product from the time of bidding through the duration of the contract installation and warranty period.
8. The Contractor must maintain a State Contractors License as required by the State of Wisconsin.
9. All members of the Contractors installation team must be certified by the manufacturer as having completed the necessary training to complete their part of the installation. All personnel shall be adequately trained in the use of tools and equipment required for the complete installation.
10. The Contractor shall own and maintain tools, installation equipment, and testing equipment necessary for the successful installation and testing of Optical and Category 5E, 6, and 6A premise distribution systems.
11. The Owners reserves the right to require the Contractor to remove from the project any such employee the Owner deems to be incompetent, careless, or insubordinate.

B. Testing Agency Qualifications: Testing agency must have personnel certified by BICSI on staff.

1. Testing Agency's Field Supervisor: Currently certified by BICSI as an RCDD.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Test cables upon receipt at Project site.

1. Test each pair of twisted pair cable for open and short circuits.

1.11 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install cables and connecting materials until wet work in spaces is complete and dry, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

1.12 COORDINATION

A. Coordinate layout and installation of telecommunications pathways and cabling with Owner's telecommunications and LAN equipment and service suppliers.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Horizontal cabling system shall comply with transmission standards in TIA-568-C.1, when tested according to test procedures of this standard.

- B. Telecommunications Pathways and Spaces: Comply with TIA-569-D.
- C. Grounding: Comply with TIA-607-B.

2.2 GENERAL CABLE CHARACTERISTICS

- A. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with the applicable standard and NFPA 70 for the following types:
 - 1. Communications, Plenum Rated: Type CMP complying with UL 1685.
- B. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Flame-Spread Index: 25 or less.
 - 2. Smoke-Developed Index: 50 or less.
- C. RoHS compliant.

2.3 CATEGORY 6 TWISTED PAIR CABLE

- A. Plenum cable construction shall be four twisted pairs of 23AWG insulated solid conductors with a ripcord surrounded by a tight outer jacket.
- B. Non-plenum cable construction shall be four twisted pairs of 23AWG insulated solid conductors with a ripcord surrounded by a tight outer jacket.
- C. No minimum compliant cable will be accepted, this facility requires additional band width.
- D. The ripcord shall be directly underneath the outer jacket.
- E. Cable shall be marked with the manufacturer and pertinent information. UL, ETL, or CSA agency certification or verification markings shall be on the cable jacket according to the certifying agency's requirements.
- F. Color coding of pairs shall be as follows:
 - 1. Pair 1: white/blue; blue
 - 2. Pair 2: white/orange; orange
 - 3. Pair 3: white/green; green
 - 4. Pair 4: white/brown; brown
- G. Plenum or riser rated jackets
- H. Cable shall be supplied in 1000 foot spools or 1000 foot Reelex boxes.
- I. Cable shall exceed CAT6 transmission requirements specified in ANSI/TIA/EIA-568-C-2.
- J. Cable shall be UL and C(UL) listed.
- K. Cable shall exceed the requirements of TIA/TSB-155, 10 GB/S Ethernet operation over 37 meters channel length.

L. CAT6 UTP horizontal distribution cable as specified in the contract documents shall be

1. Mohawk Advancenet Cable

- a. Plenum M57193
- b. Riser M57202

2.4 TWISTED PAIR CABLE HARDWARE

A. Description: Hardware designed to connect, splice, and terminate twisted pair copper communications cable.

B. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Hubbell Premise Wiring; brand of Hubbell Electrical Solutions; Hubbell Incorporated.

C. Patch Panel: Modular panels housing numbered jack units with IDC-type connectors at each jack location for permanent termination of pair groups of installed cables.

- 1. CAT6 patch panels shall be standard 8-position, RJ-45 style, un-keyed, FCC-compliant receptacle in 24 and 48 port configurations.
- 2. Panel frames shall be black powder coated 14 gauge steel with rolled edges on top and bottom for proper stiffness.
- 3. Panels shall accommodate a minimum of 24 ports for each rack mount unit (1 RMU=1.75 inches). 48 ports are recommended.
- 4. Panels shall be designed for 4-pair, 100 ohm balanced unshielded twisted pair (UTP) cable.
- 5. Panels shall terminate 26-22 AWG solid connectors
- 6. Panels shall have individual port identification numbers on the front and rear of the panel. Panels shall have the CAT6 designation visible from the front when installed.
- 7. Printed circuit boards shall be fully enclosed front and rear for physical protection.
- 8. Panel contacts shall accept a minimum of 2000 mating cycles without degradation of electrical or mechanical performance.
- 9. Panel termination method shall follow the industry standard 110 IDC punch-down using a standard 110 impact termination tool.
- 10. CAT6 panels shall be backward compatible with existing category 3, 5, and 5E cabling systems for fit, form, and function.
- 11. CAT6 patch panels when installed shall exceed the link or channel performance requirements of ANSI/TIA/EIA-568-C.2.
- 12. CAT6 patch panels shall be able to accommodate 10G in a 37 meter channel per TSB-155.
- 13. CAT6 patch panels shall be:
 - a. Hubbell (Nextspeed 6 series)
 - b. 24 port – P6E24U
 - c. 48 port – P6E48UFeatures:

14. Construction: 16-gauge steel and mountable on 19-inch (483 mm) equipment racks.

D. Patch Cords: Factory-made, four-pair cables in 48-inch (1200-mm) lengths; terminated with an eight-position modular plug at each end.

1. Patch cords shall have bend-relief-compliant boots and color-coded icons to ensure performance. Patch cords shall have latch guards to protect against snagging.
2. Patch cords shall have color-coded boots for circuit identification.

E. Plugs and Plug Assemblies:

1. Male; eight position; color-coded modular telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
2. Standard: Comply with TIA-568-C.2.
3. Marked to indicate transmission performance.

F. Jacks and Jack Assemblies:

1. Female; eight position; modular; fixed telecommunications connector designed for termination of a single four-pair, 100-ohm, unshielded or shielded twisted pair cable.
2. Designed to snap-in to a patch panel or faceplate.
3. Standard: Comply with TIA-568-C.2.
4. Marked to indicate transmission performance.

G. Faceplate:

1. Two, and Four port, vertical single gang faceplates designed to mount to single gang wall boxes.
2. Plastic Faceplate: High-impact plastic. Coordinate color with Section 26 27 26 "Wiring Devices."
3. Metal Faceplate: Stainless steel, complying with requirements in Section 26 27 26 "Wiring Devices."
4. For use with snap-in jacks accommodating any combination of twisted pair, optical fiber, and coaxial work area cords.
 - a. Flush mounting jacks, positioning the cord at a 45-degree angle.

H. Legend:

1. Machine printed, in the field, using adhesive-tape label.
2. Snap-in, clear-label covers and machine-printed paper inserts.
3. UL 2043.

2.5 IDENTIFICATION PRODUCTS

- A. Comply with TIA-606-B and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

2.6 GROUNDING

- A. Comply with TIA-607-B.

2.7 SOURCE QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to evaluate cables.
- B. Factory test cables on reels according to TIA-568-C.1.
- C. Factory test twisted pair cables according to TIA-568-C.2.
- D. Cable will be considered defective if it does not pass tests and inspections.
- E. Prepare test and inspection reports.

PART 3 - EXECUTION

3.1 WIRING METHODS

- A. Wiring Method: Install cables in raceways and cable trays, except within consoles, cabinets, desks, and counters and except in accessible ceiling spaces, attics, and gypsum board partitions where unenclosed wiring method may be used. Conceal raceway and cables, except in unfinished spaces.
 - 1. Install plenum cable in environmental air spaces, including plenum ceilings.
- B. Wiring Method: Conceal conductors and cables in accessible ceilings, walls, and floors where possible.
- C. Wiring within Enclosures: Bundle, lace, and train cables within enclosures. Connect to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools. Install conductors parallel with or at right angles to sides and back of enclosure.

3.2 INSTALLATION OF PATHWAYS

- A. Comply with requirements for demarcation point, cabinets, and racks specified in Section 27 11 00 "Communications Equipment Room Fittings."
- B. Drawings indicate general arrangement of pathways and fittings.

3.3 INSTALLATION OF TWISTED-PAIR HORIZONTAL CABLES

- A. Comply with NECA 1 and NECA/BICSI 568.
- B. General Requirements for Cabling:
 - 1. Comply with TIA-568-C.0, TIA-568-C.1, and TIA-568-C.2.

2. Comply with BICSI's "Information Transport Systems Installation Methods Manual (ITSIMM)," "Copper Structured Cabling Systems," "Cable Termination Practices" Section.
 3. Install 110-style IDC termination hardware unless otherwise indicated.
 4. Do not untwist twisted pair cables more than 1/2 inch (12 mm) from the point of termination to maintain cable geometry.
 5. Terminate all conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels.
 6. Consolidation points may be used only for making a direct connection to equipment outlets:
 - a. Do not use consolidation point as a cross-connect point, as a patch connection, or for direct connection to workstation equipment.
 - b. Locate consolidation points for twisted-pair cables at least 49 feet (15 m) from communications equipment room.
 7. Cables may not be spliced. Secure and support cables at intervals not exceeding 30 inches (760 mm) and not more than 6 inches (150 mm) from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
 8. Install lacing bars to restrain cables, prevent straining connections, and prevent bending cables to smaller radii than minimums recommended by manufacturer.
 9. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI Information Transport Systems Installation Methods Manual, "Copper Structured Cabling Systems," "Cable Termination Practices" Section. Use lacing bars and distribution spools.
 10. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation, and replace it with new cable.
 11. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used for heating.
 12. In the communications equipment room, install a 10-foot- (3-m-) long service loop on each end of cable.
 13. Pulling Cable: Comply with BICSI Information Transport Systems Installation Methods Manual, "Copper Structured Cabling Systems," "Pulling and Installing Cable" Section. Monitor cable pull tensions.
- C. Open-Cable Installation:
1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
 2. Suspend twisted pair cabling, not in a wireway or pathway, a minimum of 8 inches (200 mm) above ceilings by cable supports not more than 60 inches (1524 mm) apart.
 3. Cable shall not be run through structural members or in contact with pipes, ducts, or other potentially damaging items.
- D. Installation of Cable Routed Exposed under Raised Floors:
1. Install plenum-rated cable only.

2. Install cabling after the flooring system has been installed in raised floor areas.
3. Coil cable 6 feet (1800 mm) long not less than 12 inches (300 mm) in diameter below each feed point.

E. Group connecting hardware for cables into separate logical fields.

F. Separation from EMI Sources:

1. Comply with recommendations from BICSI's "Telecommunications Distribution Methods Manual" and TIA-569-D for separating unshielded copper communication cable from potential EMI sources, including electrical power lines and equipment.
2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches (127 mm).
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches (300 mm).
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches (600 mm).
3. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches (64 mm).
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches (150 mm).
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches (300 mm).
4. Separation between communications cables in grounded metallic raceways, power lines, and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:
 - a. Electrical Equipment Rating Less Than 2 kVA: No requirement.
 - b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches (76 mm).
 - c. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches (150 mm).
5. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches (1200 mm).
6. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches (127 mm).

3.4 FIRESTOPPING

- A. Comply with TIA-569-D, Annex A, "Firestopping."

- B. Comply with "Firestopping Systems" Article in BICSI's "Telecommunications Distribution Methods Manual."

3.5 GROUNDING

- A. Install grounding according to the "Grounding, Bonding, and Electrical Protection" chapter in BICSI's "Telecommunications Distribution Methods Manual."
- B. Comply with TIA-607-B and NECA/BICSI-607.
- C. Locate grounding bus bar to minimize the length of bonding conductors. Fasten to wall, allowing at least a 2-inch (50-mm) clearance behind the grounding bus bar. Connect grounding bus bar to suitable electrical building ground, using a minimum No. 4 AWG grounding electrode conductor.
- D. Bond metallic equipment to the grounding bus bar, using not smaller than a No. 6 AWG equipment grounding conductor.

3.6 IDENTIFICATION

- A. Identify system components, wiring, and cabling complying with TIA-606-B. Comply with requirements for identification specified in Section 27 05 53 "Identification for Communications Systems."
 - 1. Administration Class: Class 3.
 - 2. Color-code cross-connect fields and apply colors to voice and data service backboards, connections, covers, and labels.
- B. Paint and label colors for equipment identification shall comply with TIA-606-B for Class 3 level of administration, including optional identification requirements of this standard.
- C. Cable Schedule: Install in a prominent location in each equipment room and wiring closet. List incoming and outgoing cables and their designations, origins, and destinations. Protect with rigid frame and clear plastic cover. Furnish an electronic copy of final comprehensive schedules for Project.
- D. Cabling Administration Drawings: Show building floor plans with cabling administration-point labeling. Identify labeling convention and show labels for telecommunications closets, terminal hardware and positions, horizontal cables, work areas and workstation terminal positions, grounding buses and pathways, and equipment grounding conductors.
- E. Cable and Wire Identification:
 - 1. Label each cable within 4 inches (100 mm) of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.
 - 2. Each wire connected to building-mounted devices is not required to be numbered at the device if wire color is consistent with associated wire connected and numbered within panel or cabinet.

3. Exposed Cables and Cables in Cable Trays and Wire Troughs: Label each cable at intervals not exceeding 15 feet (4.5 m).
4. Label each terminal strip, and screw terminal in each cabinet, rack, or panel.

- a. Individually number wiring conductors connected to terminal strips, and identify each cable or wiring group, extended from a panel or cabinet to a building-mounted device, with the name and number of a particular device.
- b. Label each unit and field within distribution racks and frames.

5. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Label each connector and each discrete unit of cable-terminating and -connecting hardware. Where similar jacks and plugs are used for both voice and data communication cabling, use a different color for jacks and plugs of each service.

- F. Labels shall be preprinted or computer-printed type, with a printing area and font color that contrast with cable jacket color but still comply with TIA-606-B requirements for the following:

1. Cables use flexible vinyl or polyester that flexes as cables are bent.

3.7 FIELD QUALITY CONTROL

- A. Perform tests and inspections with the assistance of a factory-authorized service representative.

B. Tests and Inspections:

1. Visually inspect jacket materials for NRTL certification markings. Inspect cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA-568-C.1.
2. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.
3. Test twisted pair cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection.

- a. Test instruments shall meet or exceed applicable requirements in TIA-568-C.2. Perform tests with a tester that complies with performance requirements in "Test Instruments (Normative)" Annex, complying with measurement accuracy specified in "Measurement Accuracy (Informative)" Annex. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.

- C. Data for each measurement shall be documented. Data for submittals shall be printed in a summary report that is formatted similarly to Table 10.1 in BICSI's "Telecommunications Distribution Methods Manual," or shall be transferred from the instrument to the computer, saved as text files, printed, and submitted.

- D. Remove and replace cabling where test results indicate that they do not comply with specified requirements.
- E. End-to-end cabling will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

END OF SECTION 27 15 13

**SECTION 27 51 16
PUBLIC ADDRESS SYSTEMS**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
1. Power amplifiers.
 2. Control system.
 3. Microphones.
 4. Telephone paging adapters.
 5. Tone generator.
 6. Monitor panel.
 7. Loudspeakers.
 8. Microphone and headphone outlets.
 9. Battery backup power unit.
 10. Conductors and cables.

1.3 DEFINITIONS

- A. Channels: Separate parallel signal paths, from sources to loudspeakers or loudspeaker zones, with separate amplification and switching that permit selection between paths for speaker alternative program signals.
- B. VU: Volume unit.
- C. Zone: Separate group of loudspeakers and associated supply wiring that may be arranged for selective switching between different channels.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Power, signal, and control wiring.
1. Include plans, elevations, sections, and attachment details.
 2. Include details of equipment assemblies. Indicate dimensions, weights, required clearances, method of field assembly, components, and location and size of each field connection.
 3. Console layouts.
 4. Control panels.
 5. Rack arrangements.
 6. Calculations: For sizing backup battery.

7. Wiring Diagrams: For power, signal, and control wiring.
 - a. Identify terminals to facilitate installation, operation, and maintenance.
 - b. Single-line diagram showing interconnection of components.
 - c. Cabling diagram showing cable routing.
- C. Delegated-Design Submittal: For supports and seismic restraints for control consoles, equipment cabinets and racks, and components indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
 1. Detail fabrication and assembly of supports and seismic restraints for control consoles, equipment cabinets and racks, and components.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings are shown and coordinated with each other, using input from installers of the items involved.
- B. Qualification Data: For Installer and testing agency.
- C. Seismic Qualification Certificates: For control consoles, equipment cabinets and racks, accessories, and components, from manufacturer.
 1. Basis for Certification: Indicate whether withstand certification is based on actual test of assembled components or on calculation. Include qualification data for testing agency.
 2. Dimensioned Outline Drawings of Equipment Unit: Identify center of gravity and locate and describe mounting and anchorage provisions.
 3. Detailed description of equipment anchorage devices on which the certification is based and their installation requirements.
- D. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For public address systems to include in emergency, operation, and maintenance manuals.
 1. In addition to items specified in Section 01 77 00 "Closeout Procedures" and Section 01 78 23 "Operation and Maintenance Data," include the following:
 - a. List of tools and replacement items recommended to be stored at Project for ready access. Include part and drawing numbers, current unit prices, and source of supply.
 - b. Operating instructions laminated and mounted adjacent to operating console location.
 - c. Training plan.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Testing Agency Qualifications: Qualified agency, with the experience and capability to conduct testing indicated.
 - 1. Testing Agency's Field Supervisor: Currently certified to supervise on-site testing.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. Bogen Communications, Inc.
 - 2. TOA Electronics.
 - 3. Valcom.
- B. Source Limitations: Obtain public address system from single source from single manufacturer.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. Comply with NFPA 70.

2.2 FUNCTIONAL DESCRIPTION OF SYSTEM

- A. System Functions:
 - 1. Selectively connect any zone to any available signal channel.
 - 2. Selectively control sound from microphone outlets and other inputs.
 - 3. "All-call" feature shall connect the all-call sound signal simultaneously to all zones regardless of zone or channel switch settings.
 - 4. Telephone paging adapter shall allow paging by dialing an extension from any local telephone instrument and speaking into the telephone.
 - 5. Produce a program-signal tone that is amplified and sounded over all speakers, overriding signals currently being distributed.
 - 6. Reproduce high-quality sound that is free of noise and distortion at all loudspeakers at all times during equipment operation including standby mode with inputs off; output free of nonuniform coverage of amplified sound.

2.3 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design supports and seismic restraints for control consoles, equipment cabinets and racks, and components, including comprehensive engineering

analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

- B. Seismic Performance: Supports and seismic restraints for control consoles, equipment cabinets and racks, and components shall withstand the effects of earthquake motions determined according to ASCE/SEI 7:
1. The term "withstand" means "the unit will remain in place without separation of any parts when subjected to the seismic forces specified and the unit will be fully operational after the seismic event."

2.4 SYSTEM DESCRIPTION

- A. Compatibility of Components: Coordinate component features to form an integrated system. Match components and interconnections for optimum performance of specified functions.
- B. Equipment: Comply with UL 813. Equipment shall be modular, using solid-state components, and fully rated for continuous duty unless otherwise indicated. Select equipment for normal operation on input power usually supplied at 110 to 130 V, 60 Hz.
- C. Equipment Mounting: Where rack, cabinet, or console mounting is indicated, equipment shall be designed to mount in a 19-inch housing complying with EIA/ECA-310-E.
- D. Weather-Resistant Equipment: Listed and labeled by a qualified testing agency for duty outdoors or in damp locations.

2.5 POWER AMPLIFIERS

- A. Mounting: Rack.
- B. Output Power: 70-V balanced line. 80 percent of the sum of wattage settings of connected for each station and speaker connected in all-call mode of operation, plus a 25 percent allowance for future stations.
- C. Total Harmonic Distortion: Less than 3 percent at rated power output from 50 to 12,000 Hz.
- D. Minimum Signal-to-Noise Ratio: 80 dB, at rated output.
- E. Frequency Response: Within plus or minus 3 dB from 20 to 12,000 Hz.
- F. Output Regulation: Less than 2 dB from full to no load.
- G. Controls: On-off, input levels, and low-cut filter.
- H. Input Sensitivity: Matched to preamplifier and to provide full-rated output with sound-pressure level of less than 10 dynes/sq. cm impinging on speaker microphone or handset transmitter.

2.6 MICROPHONES

A. Paging Microphone:

1. Type: Dynamic, with cardioid polar characteristic.
2. Impedance: 500 ohms.
3. Frequency Response: Uniform, 100 to 12,000 Hz.
4. Sensitivity: Minus 70 dB +/- 6 dB.
5. Output Level: Minus 58 dB, minimum.
6. Cable: Braided shield cable with XLR connectors. Coordinate impedance with microphone impedance.
7. Mounting: Desk stand with integral-locking, press-to-talk switch.

2.7 VOLUME LIMITER/COMPRESSOR

A. Minimum Performance Requirements:

1. Frequency Response: 45 to 15,000 Hz, plus or minus 1 dB minimum.
2. Reduction Ratio: Automatically vary compression ratio, and attack and release times for voice and music inputs.
 - a. Compression Ratio Range: 3:1 to 10:1 minimum.
 - b. Averaging Compressor Attack Time: Up to 500 milliseconds.
 - c. Signal Fast Compression Attack Time: Less than 10 milliseconds.
 - d. Release time: Up to 500 milliseconds.
3. Distortion: 0.5 percent, maximum.
4. Rated Output: Minimum of plus 14 dB.
5. Inputs: Minimum of two inputs with variable front-panel gain controls and VU or decibel meter for input adjustment.
6. Rack mounted.

2.8 CONTROL SYSTEM

A. Cabinet: Modular, rack-mount style; complying with EIA/ECA-310-E.

B. Panel for Equipment and Controls: Rack mounted.

C. Controls:

1. Switching devices to select signal sources for distribution channels.
2. Program selector switch to select source for each program channel.
3. Switching devices to select zones for paging.
4. All-call capability.
5. Emergency override over all-call.

D. Indicators: A visual annunciation for each distribution channel to indicate source being used.

E. Self-Contained Power and Control Unit: A single assembly of basic control, electronics, and power supply necessary to accomplish specified functions.

- F. Spare Positions: 20 percent spare zone control.
- G. Microphone jack.

2.9 TELEPHONE PAGING ADAPTER

- A. Adapters shall accept voice signals from telephone extension dialing access and automatically provide amplifier input and program override for preselected zones.
 - 1. Minimum Frequency Response: Flat, 200 to 2500 Hz.
 - 2. Impedance Matching: Adapter matches telephone line to public address equipment input.
 - 3. Rack mounted.

2.10 TONE GENERATOR

- A. Tone generator shall provide clock and program interface with public address system.
- B. Signals: Minimum of seven distinct, audible signal types including wail, warble, high/low, alarm, repeating and single-stroke chimes, and tone.
- C. Pitch Control: Chimes and tone.
- D. Volume Control: All outputs.
- E. Activation-Switch Network: Establishes priority and hierarchy of output signals produced by different activation setups.
- F. Mounting: Rack.

2.11 LOUDSPEAKERS

- A. Cone-Type Loudspeakers:
 - 1. Minimum Axial Sensitivity: 91 dB at 1 m, with 1-W input.
 - 2. Frequency Response: Within plus or minus 3 dB from 50 to 15,000 Hz.
 - 3. Size: 8 inches] with 1-inch voice coil and minimum 5-oz. ceramic magnet.
 - 4. Rated Output Level: 10 W.
 - 5. Minimum Dispersion Angle: 100 degrees.
 - 6. Matching Transformer: Full-power rated with four taps. Maximum insertion loss of 0.5 dB.
 - 7. Surface-Mounted Units: Ceiling, wall, or pendant mounted, as indicated, in steel back boxes, acoustically dampened. Front face of at least 0.0478-inch steel and whole assembly rust proofed and shop primed for field painting.
 - 8. Flush-Ceiling-Mounted Units: In steel back boxes, acoustically dampened. Metal ceiling grille with white baked enamel.
- B. Horn-Type Loudspeakers:
 - 1. Type: Single-horn units, double-reentrant design, with minimum full-range power rating of 15 W.

2. Matching Transformer: Full-power rated with four standard taps. Maximum insertion loss of 0.5 dB.
3. Frequency Response: Within plus or minus 3 dB from 250 to 12,000 Hz.
4. Dispersion Angle: 130 by 110 degrees.
5. Mounting: Integral bracket.
6. Units in Damp, Wet, or Outdoor Locations: Listed and labeled for environment in which they are located.
7. Units in Hazardous (Classified) Locations: Listed and labeled for environment in which they are located. Provide any accessories required to maintain listing.

2.12 OUTLETS

- A. Microphone Outlet: Three-pole, polarized, locking-type, microphone receptacles in single-gang boxes. Equip wall outlets with brushed stainless-steel device plates. Equip floor outlets with gray tapered rubber or plastic cable nozzles and fixed outlet covers.

2.13 CONDUCTORS AND CABLES

- A. Jacketed, twisted pair and twisted multipair, untinned solid copper.
 1. Insulation for Wire in Conduit: Thermoplastic, not less than 1/32 inch thick.
 2. Microphone Cables: Neoprene jacketed, not less than 2/64 inch thick, over shield with filled interstices. Shield No. 34 AWG, tinned, soft-copper strands formed into a braid or approved equivalent foil. Shielding coverage on conductors is not less than 60 percent.
 3. Plenum Cable: Listed and labeled for plenum installation.

PART 3 - EXECUTION

3.1 WIRING METHODS

- A. Wiring Method: Install cables in pathways and cable trays except within consoles, cabinets, desks, and counters, and except in accessible ceiling spaces and in gypsum board partitions where unenclosed wiring method may be used. Conceal pathway and cables except in unfinished spaces.
 1. Install plenum cable in environmental air spaces, including plenum ceilings.
- B. Wiring Method: Conceal conductors and cables in accessible ceilings, walls, and floors where possible.
- C. Wiring within Enclosures: Bundle, lace, and train cables to terminal points with no excess and without exceeding manufacturer's limitations on bending radii. Provide and use lacing bars and distribution spools.

3.2 INSTALLATION OF PATHWAYS

- A. Install manufactured conduit sweeps and long-radius elbows whenever possible.

3.3 INSTALLATION OF CABLES

A. Comply with NECA 1.

B. General Cable Installation Requirements:

1. Terminate conductors; no cable shall contain unterminated elements. Make terminations only at outlets and terminals.
2. Splices, Taps, and Terminations: Arrange on numbered terminal strips in junction, pull, and outlet boxes; terminal cabinets; and equipment enclosures. Cables may not be spliced.
3. Secure and support cables at intervals not exceeding 30 inches and not more than 6 inches from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
4. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii. Install lacing bars and distribution spools.
5. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
6. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used.

C. Open-Cable Installation:

1. Install cabling with horizontal and vertical cable guides in telecommunications spaces with terminating hardware and interconnection equipment.
2. Suspend speaker cable not in a wireway or pathway a minimum of 8 inches above ceiling by cable supports not more than 60 inches apart.
3. Cable shall not be run through structural members or be in contact with pipes, ducts, or other potentially damaging items.

D. Separation of Wires: Separate speaker-microphone, line-level, speaker-level, and power wiring runs. Install in separate pathways or, where exposed or in same enclosure, separate conductors at least 12 inches apart for speaker microphones and adjacent parallel power and telephone wiring. Separate other communication equipment conductors as recommended by equipment manufacturer.

3.4 INSTALLATION

A. Coordinate layout and installation of system components and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

B. Match input and output impedances and signal levels at signal interfaces. Provide matching networks where required.

C. Identification of Conductors and Cables: Color-code conductors and apply wire and cable marking tape to designate wires and cables so they identify media in coordination with system wiring diagrams.

D. Equipment Cabinets and Racks:

1. Group items of same function together, either vertically or side by side, and arrange controls symmetrically. Mount monitor panel above the amplifiers.
 2. Arrange all inputs, outputs, interconnections, and test points so they are accessible at rear of rack for maintenance and testing, with each item removable from rack without disturbing other items or connections.
 3. Blank Panels: Cover empty space in equipment racks so entire front of rack is occupied by panels.
- E. Volume Limiter/Compressor: Equip each zone with a volume limiter/compressor. Install in central equipment cabinet. Arrange to provide a constant input to power amplifiers.
- F. Wall-Mounted Outlets: Flush mounted.
- G. Floor-Mounted Outlets: Conceal in floor and install cable nozzles through outlet covers. Secure outlet covers in place. Trim with carpet in carpeted areas.
- H. Conductor Sizing: Unless otherwise indicated, size speaker circuit conductors from racks to loudspeaker outlets not smaller than No. 18 AWG and conductors from microphone receptacles to amplifiers not smaller than No. 22 AWG.
- I. Weatherproof Equipment: For units that are mounted outdoors, in damp locations, or where exposed to weather, install consistent with requirements of weatherproof rating.
- J. Speaker-Line Matching Transformer Connections: Make initial connections using lowest tap settings.

3.5 GROUNDING

- A. Ground cable shields and equipment to eliminate shock hazard and to minimize ground loops, common-mode returns, noise pickup, cross talk, and other impairments.
- B. Signal Ground Terminal: Locate at main equipment cabinet. Isolate from power system and equipment grounding.
- C. Install grounding electrodes as specified in Section 27 05 26 "Grounding and Bonding for Communications Systems."

3.6 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.
- C. Perform tests and inspections.
1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- D. Tests and Inspections:

1. Schedule tests with at least seven days' advance notice of test performance.
 2. After installing public address system and after electrical circuitry has been energized, test for compliance with requirements.
 3. Operational Test: Perform tests that include originating program and page messages at microphone outlets, preamplifier program inputs, and other inputs. Verify proper routing and volume levels and that system is free of noise and distortion.
 4. Signal-to-Noise Ratio Test: Measure signal-to-noise ratio of complete system at normal gain settings as follows:
 - a. Disconnect microphone at connector or jack closest to it and replace it in the circuit with a signal generator using a 1000-Hz signal. Replace all other microphones at corresponding connectors with dummy loads, each equal in impedance to microphone it replaces. Measure signal-to-noise ratio.
 - b. Repeat test for each separately controlled zone of loudspeakers.
 - c. Minimum acceptance ratio is 50 dB.
 5. Distortion Test: Measure distortion at normal gain settings and rated power. Feed signals at frequencies of 50, 200, 400, 1000, 3000, 8000, and 12,000 Hz into each preamplifier channel. For each frequency, measure distortion in the paging and all-call amplifier outputs. Maximum acceptable distortion at any frequency is 3 percent total harmonics.
 6. Acoustic Coverage Test: Feed pink noise into system using octaves centered at 500 and 4000 Hz. Use sound-level meter with octave-band filters to measure level at five locations in each zone. For spaces with seated audiences, maximum permissible variation in level is plus or minus 2 dB. In addition, the levels between locations in same zone and between locations in adjacent zones must not vary more than plus or minus 3 dB.
 7. Power Output Test: Measure electrical power output of each power amplifier at normal gain settings of 50, 1000, and 12,000 Hz. Maximum variation in power output at these frequencies must not exceed plus or minus 1 dB.
 8. Signal Ground Test: Measure and report ground resistance at public address equipment signal ground. Comply with testing requirements specified in Section 27 05 26 "Grounding and Bonding for Communications Systems."
- E. Inspection: Verify that units and controls are properly labeled and interconnecting wires and terminals are identified. Prepare a list of final tap settings of paging speaker-line matching transformers.
- F. Public address system will be considered defective if it does not pass tests and inspections.
- G. Prepare test and inspection reports.
1. Include a record of final speaker-line matching transformer-tap settings and signal ground-resistance measurement certified by Installer.

3.7 STARTUP SERVICE

- A. Perform startup service.

1. Verify that electrical wiring installation complies with manufacturer's submittal and installation requirements.
2. Complete installation and startup checks according to manufacturer's written instructions.

3.8 ADJUSTING

- A. On-Site Assistance: Engage a factory-authorized service representative to provide on-site assistance in adjusting sound levels, resetting transformer taps, and adjusting controls to meet occupancy conditions.
- B. Occupancy Adjustments: When requested within 12 months of date of Substantial Completion, provide on-site assistance in adjusting system to suit actual occupied conditions. Provide up to two visits to Project during other-than-normal occupancy hours for this purpose.

3.9 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain the public address system and equipment. Refer to Section 01 79 00 "Demonstration and Training."

END OF SECTION 27 51 16

These drawings shall not be used for any purpose other than that for which they were prepared. The user of these drawings shall be responsible for obtaining all necessary permits and for verifying the accuracy of the information provided. The user shall also be responsible for obtaining all necessary approvals from the appropriate authorities. The user shall also be responsible for obtaining all necessary approvals from the appropriate authorities.



**CITY OF MADISON
 METRO TRANSIT - PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1 SOUTH INGERSOLL ST.
 MADISON, WI 53703**

DATE: 04/08/21 (B) SET
 05/13/21 ADDENDUM #2
 05/20/21 ADDENDUM #3

PROJECT NO: 2291
 DRAWING NO: 425500-1-00056.03
 DATE: APRIL 8, 2021
 DESIGNED BY: ACA
 DRAWN BY: KSD
 CHECKED BY: ACA
 DO NOT SCALE DRAWINGS
 SHEET CONTENTS:
 SITE UTILITY PLAN

ADDENDUM-3 A3

SITE KEY PLAN



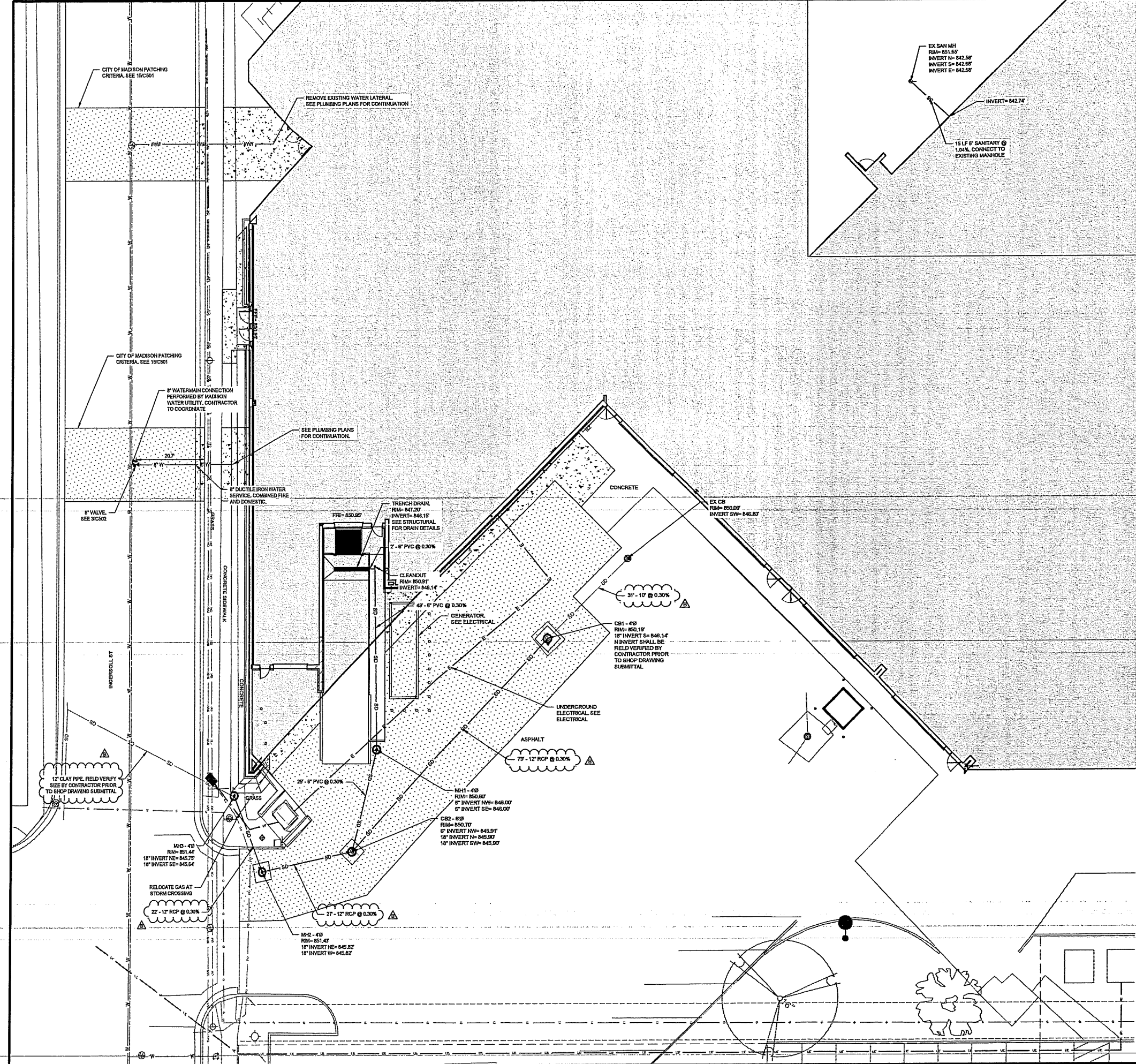
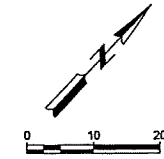
NOTES:

- 1) REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2) REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3) REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- 4) FOR WATER LATERAL CONNECTION, CONTRACTOR SHALL APPLY FOR A SERVICE CONNECTION APPLICATION EMAILED TO AMY.JONES.AJONES@MADISONWATER.ORG
 HTTPS://WWW.CITYOFMADISON.COM/WATER/PLUMBERS-CONTRACTORS.
 CONTRACTOR RESPONSIBLE FOR RIGHT-OF-WAY PERMIT, TRAFFIC CONTROL, SAW CUTS, EXCAVATION, BACKFILL, TESTING, AND COORDINATION. MADISON WATER UTILITY WILL FURNISH AND INSTALL LIVE TAP.

LEGEND:

- ⊙ BOLLARD
- ⊕ FIRE HYDRANT
- ⊙ LIGHT POLE
- ⊙ STORM INLET, ROUND
- ⊙ STORM SEWER MANHOLE
- ⊙ WATER VALVE
- X- FENCE
- XXX- TEMPORARY CONSTRUCTION FENCE
- SD- STORM SEWER/CULVERT
- W- WATER
- WET- WATER REMOVAL
- ASPHALT
- CONCRETE

SITE KEY PLAN



CITY OF MADISON PATCHING CRITERIA, SEE 15(C)501

REMOVE EXISTING WATER LATERAL. SEE PLUMBING PLANS FOR CONTINUATION.

CITY OF MADISON PATCHING CRITERIA, SEE 15(C)501

8" WATERMAIN CONNECTION PERFORMED BY MADISON WATER UTILITY. CONTRACTOR TO COORDINATE.

SEE PLUMBING PLANS FOR CONTINUATION.

8" DUCTILE IRON WATER SERVICE, COMBINED FIRE AND DOMESTIC.

8" VALVE SEE 3(C)502

TRENCH DRAIN
 2" x 4" PVC @ 0.30%
 SEE STRUCTURAL FOR DRAIN DETAILS

CLEANOUT
 2" x 4" PVC @ 0.30%
 INVERT=845.14'

GENERATOR
 SEE ELECTRICAL

CONCRETE

ASPHALT

UNDERGROUND ELECTRICAL SEE ELECTRICAL

1" CLAY PIPE. FIELD VERIFY SIZE BY CONTRACTOR PRIOR TO SHOP DRAWING SUBMITTAL.

RELOCATE GAS AT STORM CROSSING

CONCRETE SIDEWALK

MH1 - 49
 RIM= 850.19'
 18" INVERT S= 846.14'
 6" INVERT NW= 846.00'
 6" INVERT SE= 846.00'

MH2 - 69
 RIM= 850.70'
 6" INVERT NW= 845.91'
 18" INVERT N= 845.90'
 18" INVERT SW= 845.90'

MH3 - 49
 RIM= 851.44'
 18" INVERT NE= 845.79'
 18" INVERT SE= 845.64'

MH4 - 49
 RIM= 851.42'
 18" INVERT NE= 845.82'
 18" INVERT W= 845.82'

22" - 12" RCP @ 0.30%

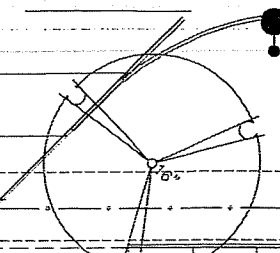
27" - 12" RCP @ 0.30%

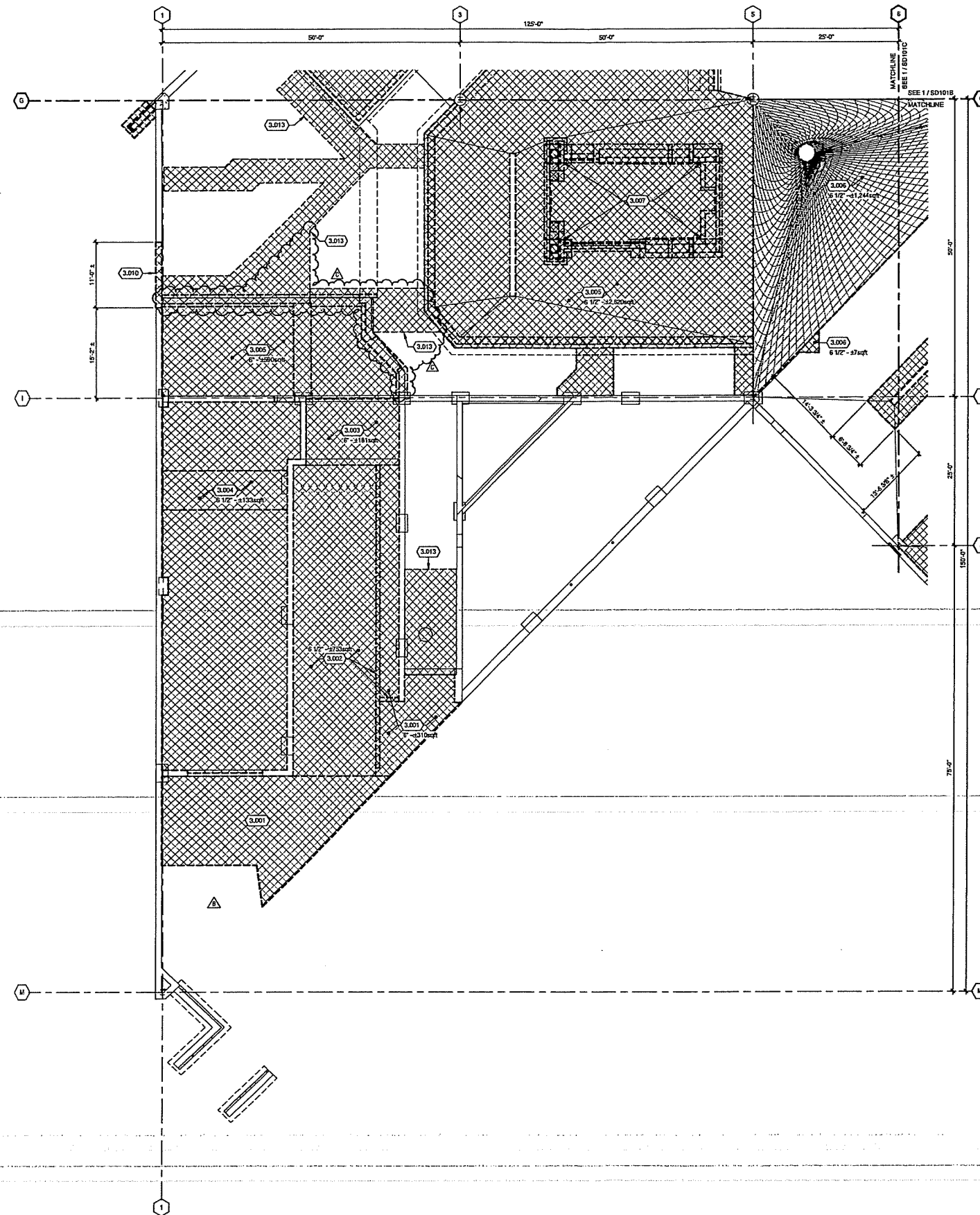
18" - 12" RCP @ 0.30%

EX SAN MH
 RIM= 851.85'
 INVERT N= 842.85'
 INVERT S= 842.85'
 INVERT E= 842.85'

INVERT= 842.74'

15" LF 8" SANITARY @ 1.5%
 CONNECT TO EXISTING MANHOLE





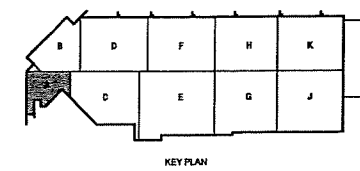
**FOUNDATION AND FLATWORK
DEMOLITION PLAN GENERAL NOTES:**

1. REFERENCE G-020 THROUGH G-026 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. "ATTENTION" FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

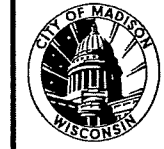
KEYED NOTES

- 3.001 REMOVE EXISTING EXTERIOR SLAB AS SHOWN.
- 3.002 REMOVE EXISTING LOADING DOCK SLAB AND RETAINING WALLS AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.003 REMOVE EXISTING 2-WAY LOADING DOCK SLAB AS SHOWN. EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.004 REMOVE EXISTING INTERIOR SLAB AS SHOWN FOR NEW FOUNDATION INSTALLATION. EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.005 REMOVE EXISTING INTERIOR SLAB AND THICKENED SLAB AS SHOWN. EXISTING GRADE BEAMS AND FOOTINGS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.006 REMOVE EXISTING INTERIOR SLAB AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.007 REMOVE EXISTING VEHICLE LIFT AND ASSOCIATED CONCRETE SLAB AND FOUNDATIONS. EXISTING STEEL PILES TO REMAIN. TURN OVER LIFT AND ASSOCIATED COMPONENTS TO OWNER AS REQUIRED.
- 3.010 CUT DOWN AND REMOVE EXISTING CONCRETE WALL/GRADE BEAM AS REQUIRED FOR NEW DOORS. TOP OF WALL/GRADE BEAM SHALL BE CUT DOWN TO ELEVATION 99'-6". PREP TOP OF WALL FOR NEW FLOOR FINISH. COORDINATE WITH ARCHITECTURAL PATCH CONCRETE TO FINISHED FLOOR. COORDINATE WITH OTHER MATERIALS FOR FINISH AND EXACT ELEVATION.
- 3.013 REMOVE EXISTING SLAB AS REQUIRED FOR DEMONSTRATION OF PILING. COORDINATE LOCATIONS WITH PLUMBERS. REPLACE SLAB AFTER COMPLETION OF PILING WORK WITH SLAB TYPE SLR06. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.

TRUE PLAN
NORTH NORTH
1 FOUNDATION/FLATWORK DEMOLITION PLAN - AREA A
1/8" = 1'-0"



Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

NO. 04/08/21 BID SET
B 05/13/21 ADDENDUM #2
C 05/20/21 ADDENDUM #3

CONTRACT NO. 8981
PROJECT NO. 430300-1008981D
DATE: APRIL 8, 2021
DRAWN BY: DRG
CHECKED BY: KJS / MJE
DESIGNED BY: DRG
DO NOT SCALE DIMENSIONS

SHEET CONTAINS
FOUNDATION AND
FLATWORK
DEMOLITION PLAN -
AREA A

SHEET NO.:

SD101A

ADDENDUM 3

04/08/21 2:50:25 PM C:\Users\lsm1150188\OneDrive\Documents\meadhunt\meadhunt.com\vt

Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/06/21 BID SET
C 05/20/21 ADDENDUM #3

CONTRACT NO. 8961
PROJECT NO. 1909620-1909620-03
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: NJS/AJE
CHECKED BY: DHM

SHEET CONTAINS
ROOF FRAMING
DEMOLITION PLAN -
AREA A

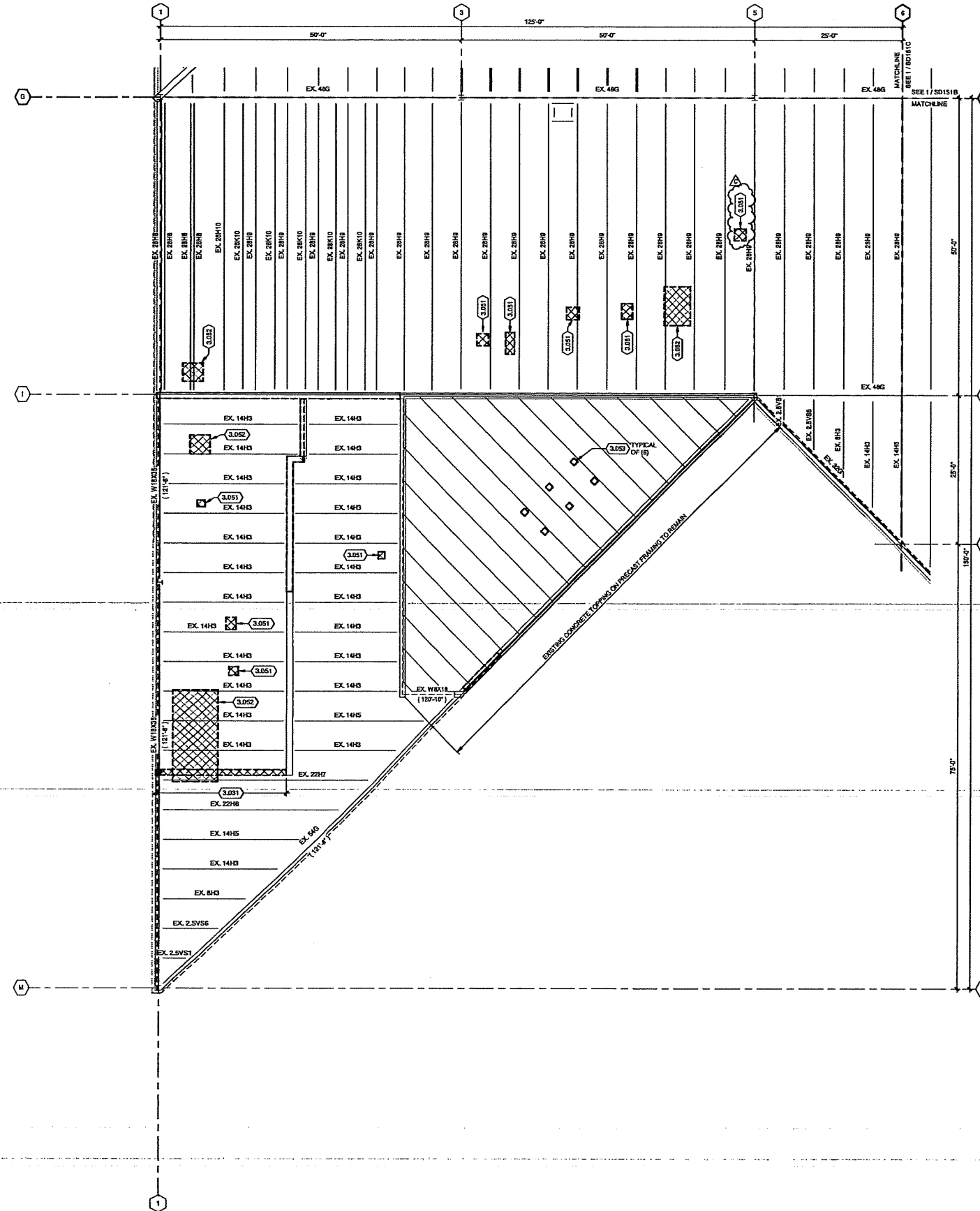
SHEET NO:
SD151A

**ROOF FRAMING
DEMOLITION PLAN GENERAL NOTES:**

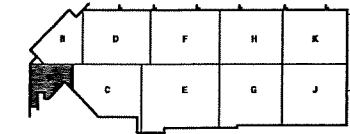
1. REFERENCE G-200 THROUGH G-208 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. "ATTENTION" FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.001 REMOVE EXISTING MASONRY WALL(S) FULL HEIGHT FROM FOUNDATION SLAB UP TO TOP OF EXISTING MASONRY WALL. FOUNDATIONS TO REMAIN UNLESS INDICATED OTHERWISE. COORDINATE EXTENTS WITH ARCHITECTURAL AND IN-FIELD CONDITIONS.
- 3.051 NEW OPENING IN ROOF FOR MECHANICAL EQUIPMENT. REFER TO NEW CONSTRUCTION DRAWINGS FOR FRAMED OPENING REQUIREMENTS. COORDINATE WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.052 REMOVE EXISTING MECHANICAL EQUIPMENT CURB AND PATCH OPENING.
- 3.053 NEW OPENING IN PRECAST CONCRETE PLANK ROOF FOR MECHANICAL. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL.



TRUE PLAN
NORTH NORTH
1 ROOF FRAMING DEMOLITION PLAN - AREA A
1/8" = 1'-0"



KEY PLAN

ADDENDUM 3

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

PROJECT:
04/06/21 BID SET
B 02/13/21 ADDENDUM #2
C 05/20/21 ADDENDUM #3

CONTRACT NO.: 8581
MAP NO.: 4520500-190366.03
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NLR / AJE
CHECKED BY: DRM
DO NOT SCALE DRAWINGS

SHEET CONTENTS:
FOUNDATION PLAN - AREA A

SHEET NO.:
S-101A

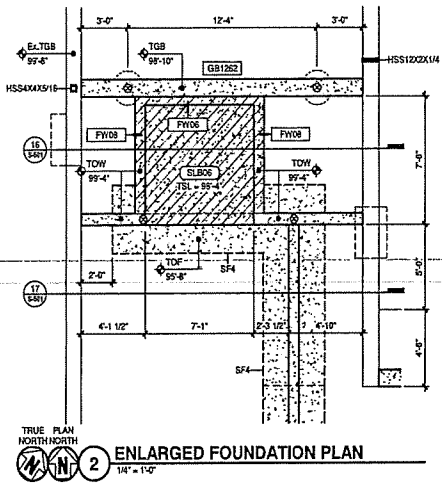
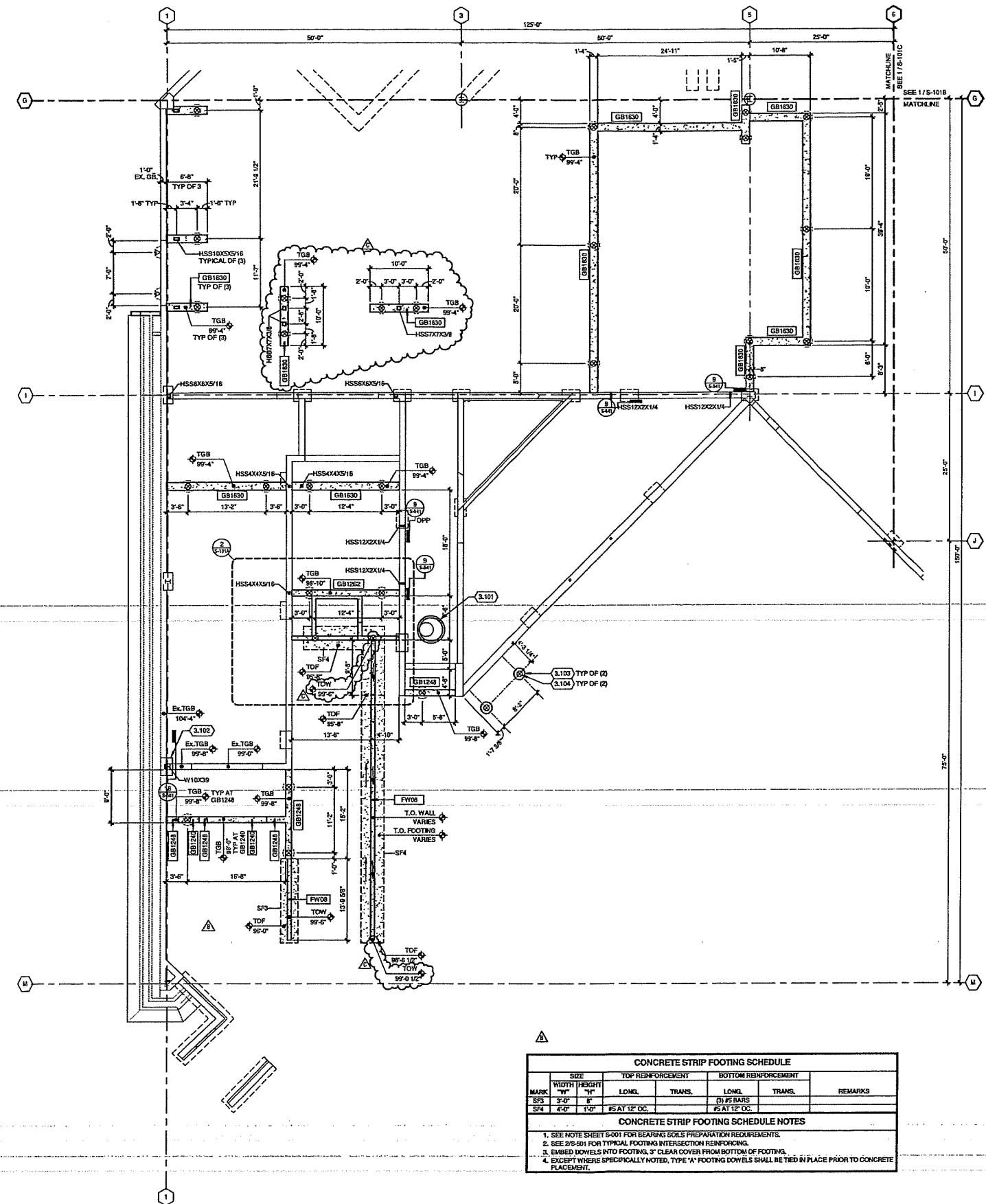
ADDENDUM 3

**FOUNDATION
PLAN GENERAL NOTES:**

- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 102'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- TOP OF FOOTING ELEVATION = 95'-0" UNLESS NOTED OTHERWISE.
- TOP OF FOUNDATION WALL ELEVATION = 107'-0" UNLESS NOTED OTHERWISE.
- STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
- Ⓐ = RETROFIT HELICAL PIER
 - 32 KP SERVICE LEVEL CAPACITY
 - MINIMUM EMBEDMENT DEPTH = 25'-0"
 - Ⓑ = NEW HELICAL PIER
 - 32 KP SERVICE LEVEL CAPACITY
 - MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

- 3.101 4'-0" DIAMETER X 6'-0" DEEP MANHOLE WITH SOLID BOTTOM, FLAT TOP WITH 20" DIAMETER OFFSET MANWAY HOLE. CAST IRON CASTING WITH SLOTTED CAST IRON GRATE. FILL BOTTOM 8'-0" WITH CLEAR, WASHED 3/4" LIMESTONE, LESS THAN 5% PASSING 30". MINERAL MUST BE LIMESTONE FOR NEUTRALIZATION OF SPILLED BATTERY ACID.
- 3.102 NEW PIER AT EXISTING GRADE BEAM, SEE DETAIL 14S-501.
- 3.103 24" DIAMETER CONCRETE PIER, FULL 8'-0" HEIGHT TO BE POURED AT THE SAME TIME. REINFORCING SHALL BE (5) #5 VERTICAL BARS, #3 TIES SPACED AT 12" VERTICALLY, AND TRIPLE TOP TIE IN THE TOP 12" OF PIER, DOME TOP OF PIER WITH SLOPE OF 1/4" PER FOOT MINIMUM.
- 3.104 HELICAL PIER, 10 KP COMPRESSION CAPACITY.

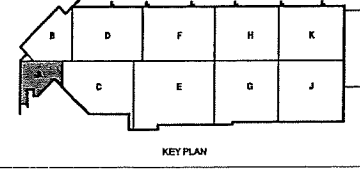


CONCRETE STRIP FOOTING SCHEDULE							
MARK	SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		REMARKS
	WIDTH "W"	HEIGHT "H"	LONG.	TRANS.	LONG.	TRANS.	
SF3	3'-0"	8"	#5 AT 12" OC.		(1) #5 BARS	#5 AT 12" OC.	
SF4	4'-0"	1'-0"	#5 AT 12" OC.		#5 AT 12" OC.		

CONCRETE STRIP FOOTING SCHEDULE NOTES

- SEE NOTE SHEET S-001 FOR BEARING SOILS PREPARATION REQUIREMENTS.
- SEE 2/S-501 FOR TYPICAL FOOTING INTERSECTION REINFORCING.
- EMBED DOWELS INTO FOOTING, 3" CLEAR COVER FROM BOTTOM OF FOOTING.
- EXCEPT WHERE SPECIFICALLY NOTED, TYPE "A" FOOTING DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE PLACEMENT.

TRUE PLAN
NORTH NORTH
1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"



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ADDENDUM 3

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
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 mead@mh.com

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CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

REVISIONS:
 A 04/08/21 BID SET
 B 05/13/21 ADDENDUM #2
 C 05/20/21 ADDENDUM #3

CONTRACT NO. 0581
 DRAWING NO. 4502000-19069.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DXC
 DRAWN BY: NLB/MAE
 CHECKED BY: DRM
 (50 NOT SCALE DIMENSIONS)

PROJECT LOCATION:
 FIRST FLOOR
 FLATWORK PLAN -
 AREA A

SHEET NO.:

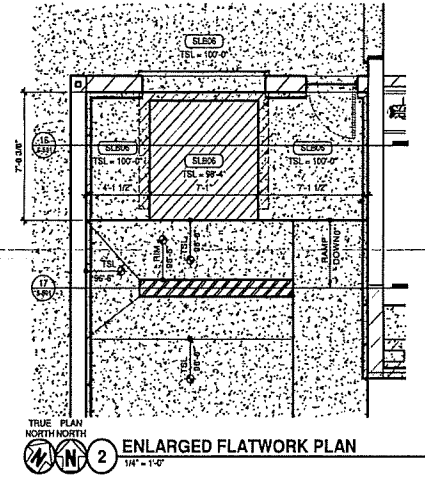
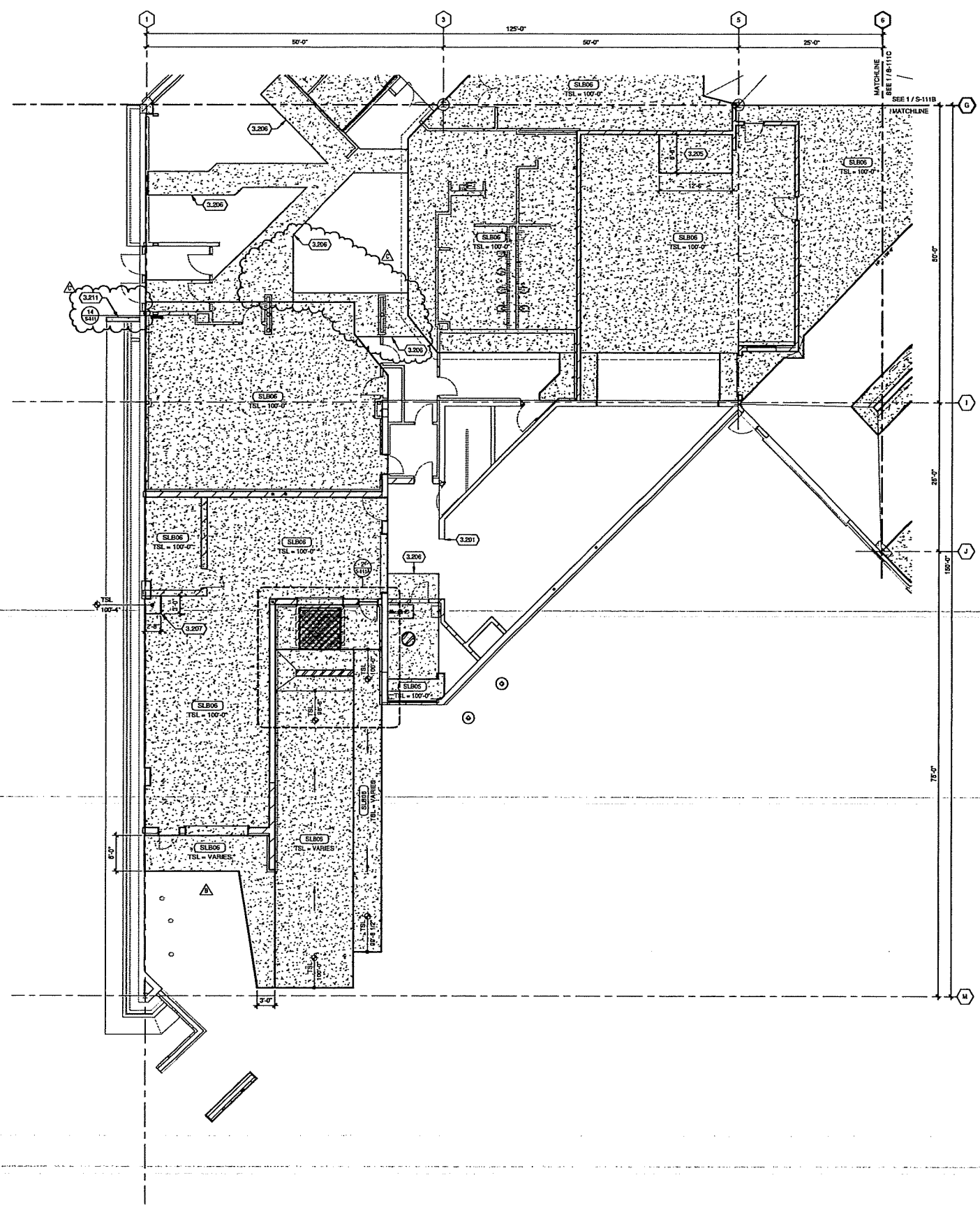
S-111A

**FLATWORK
 PLAN GENERAL NOTES:**

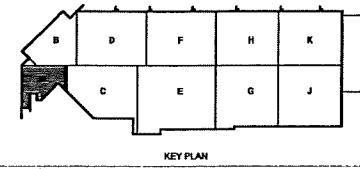
1. REFERENCE G-200 THROUGH G-230 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. REFER TO DETAIL US-511 FOR STRUCTURAL SLAB TYPES.
9. FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
10. (2) DASHED LINES --- INDICATE (2) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.
11. DOWEL ALL NEW SLAB/FFWL TO EXISTING PER DETAIL 9'S-511, UNLESS INDICATED OTHERWISE.
12. "ATTENTION" FULL EXTENT OF SLAB REPLACEMENT REQUIRED DUE TO OTHER DISCIPLINES DISMISSED ON MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED SLAB REPLACEMENT WITH OTHER DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.201 PATCH SLAB AT WALL REMOVAL, MATCH EXISTING THICKNESS, DOWEL PER DETAIL 9'S-511.
- 3.205 12" ISOLATED EQUIPMENT PAD, SEE DETAIL 7'S-511, TOP OF SLAB ELEVATION = 100'-0".
- 3.206 SLAB REPLACEMENT AFTER COMPLETION OF PLUMBING DEMO/INSTALLATION, COORDINATE LOCATIONS WITH PLUMBING. REPLACE WITH SLAB TYPE SLABS. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.
- 3.207 NEW EQUIPMENT PAD, SEE DETAIL 9'S-511, COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING EQUIPMENT SUPPLIER.
- 3.211 NEW 8" WIDE CONCRETE CAP ON EXISTING CONCRETE LANDSCAPE FEATURE, EXTEND DOWN TO ELEVATION 89'-4".

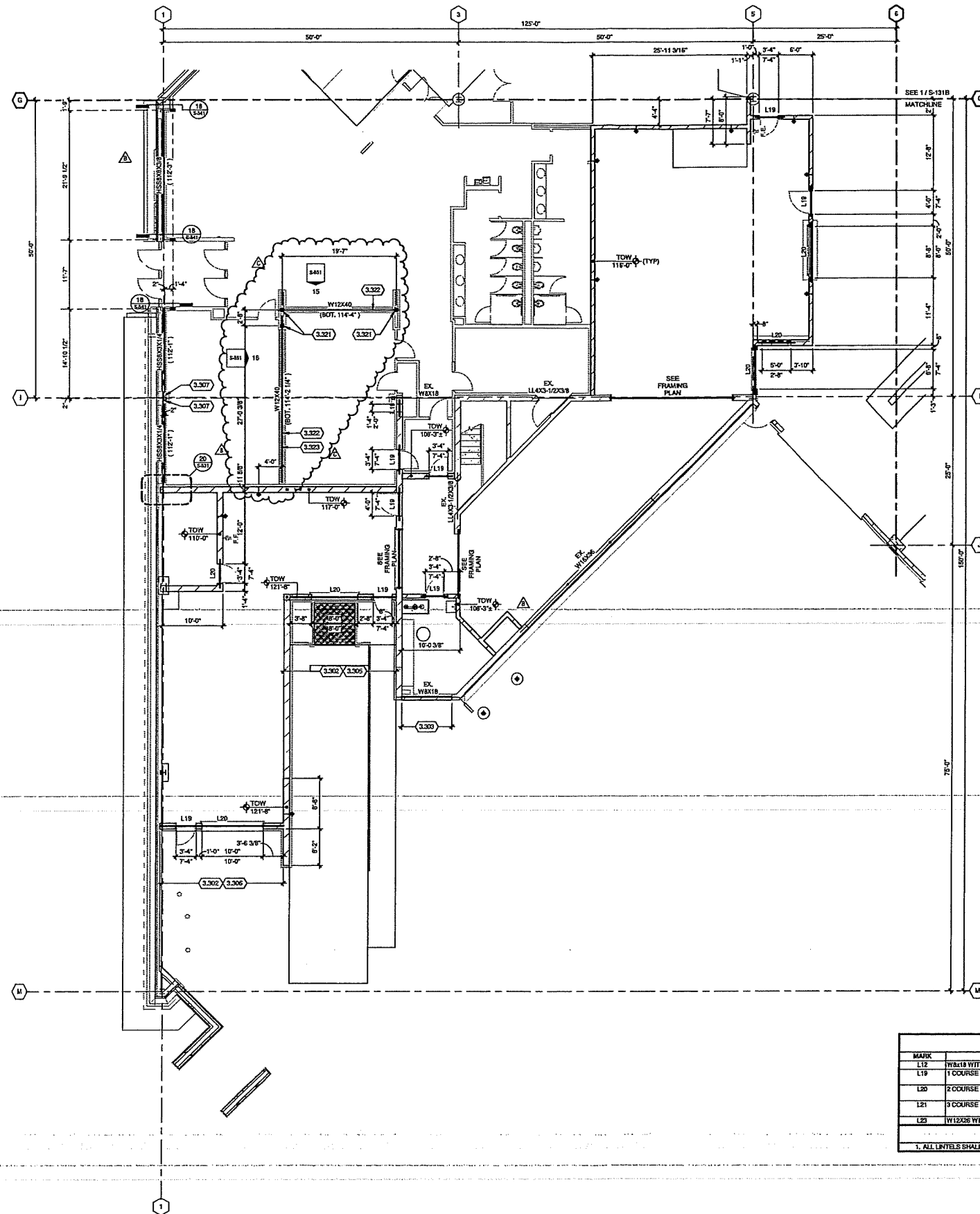


TRUE PLAN
 NORTH NORTH
1 FIRST FLOOR FLATWORK PLAN - AREA A
 1/8" = 1'-0"



KEY PLAN

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STRUCTURAL FLOOR PLAN GENERAL NOTES:

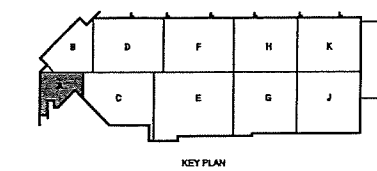
1. REFERENCE G-420 THROUGH G-430 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOLOGY.
7. REFER TO SHEET S-131A FOR LINTEL SCHEDULE.
8. REFER TO SHEET S-531 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
9. ALL MASONRY WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48" O.C., CENTERED IN WALL, UNLESS INDICATED OTHERWISE.
10. GROUT ALL MASONRY SOLID BELOW FINISHED FLOOR ELEVATION AND 1 FULL COURSE ABOVE FINISHED FLOOR.
11. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
12. STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
13. PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED EXCEEDING 1'-0" (4'-0" MAX) IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
14. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
15. CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.

KEYED NOTES

- 3.302 NEW 12" CMU WALL FULLY GROUTED, FULL HEIGHT, WITH JAMB REINFORCING PER DETAIL G5-531.
- 3.303 NEW 8" CMU INFILL FULLY GROUTED WITH #5 VERTICAL BAR EACH CORNER.
- 3.305 LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL.
- 3.306 LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL, FULL LENGTH BOND BEAM WITH (2) #5 BARS AT 4'-0" VERTICAL SPACING ABOVE OPENINGS.
- 3.307 FIELD WELD HSS LINTEL BEAM TO HSS COLUMN WITH 1/4" FILLET WELD, THREE SIDES.
- 3.321 HSS7X7X3/8 COLUMN, SEE DETAIL 18-5-561 FOR BASECAP PLATE.
- 3.322 MAKE NO CONNECTION BETWEEN THE W12 PARTITION SUPPORT FRAMING AND THE ROOF STRUCTURE.
- 3.323 MAKE NO CONNECTION BETWEEN THE W12 PARTITION SUPPORT FRAMING AND THE W24 BEAM ABOVE. ATTACH SIGNS TO BOTH SIDES OF W12 BEAM AT MIDSPAN OF BEAM. SIGNS SHALL HAVE 1" RAISED LETTERING THAT STATES "NO CONNECTION BETWEEN THIS W12 AND THE W24 ABOVE. DO NOT INSTALL ANYTHING BETWEEN THE BEAMS." PAINT SIGN YELLOW WITH RED LETTERING.

LINTEL SCHEDULE				
MARK	DESCRIPTION	BEARING	DETAIL	REMARKS
L18	WB18 WITH PLATE	8" E.E.		
L19	1 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	8" E.E.		NO BOTTOM PLATE
L20	2 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	8" E.E.		NO BOTTOM PLATE
L21	3 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	24" E.E.		NO BOTTOM PLATE
L23	W12X26 WITH PL1/4X11-1/2	8" E.E.		

LINTEL SCHEDULE GENERAL NOTES
 1. ALL LINTELS SHALL HAVE 1/4" THICK BOTTOM PLATE TO MATCH WIDTH OF WALL MINUS 1/4" EACH SIDE U/L/O.



TRUE PLAN NORTH/NORTH
1 STRUCTURAL FIRST FLOOR PLAN - AREA A
 1/8" = 1'-0"

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Madison, WI 53752
 phone: 608-273-6380
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**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

ISSUED:
 04/09/21 BID SET
 B 05/13/21 ADDENDUM #2
 C 05/20/21 ADDENDUM #3

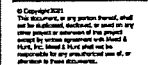
CONTRACT NO: 0981
 DRAWING NO: 4302500-190886.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DUC
 DRAWN BY: NLS / ALK
 CHECKED BY: DRM
 DO NOT SCALE DRAWINGS

KEY CONTRACTOR:
**STRUCTURAL FIRST
 FLOOR PLAN - AREA
 A**

SHEET NO:
S-131A

ADDENDUM 3

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

NO. 04/06/21 BID SET
C 05/02/21 ADDENDUM #3

CONTRACT NO. 8581
MANUAL: 4503500-190836.DWG
DATE: APRIL 8, 2021
DESIGNED BY: DYC
DRAWN BY: NLS / MUE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS

PROJECT NO. 190836
ROOF FRAMING
PLAN - AREA C

SHEET NO.

S-151C

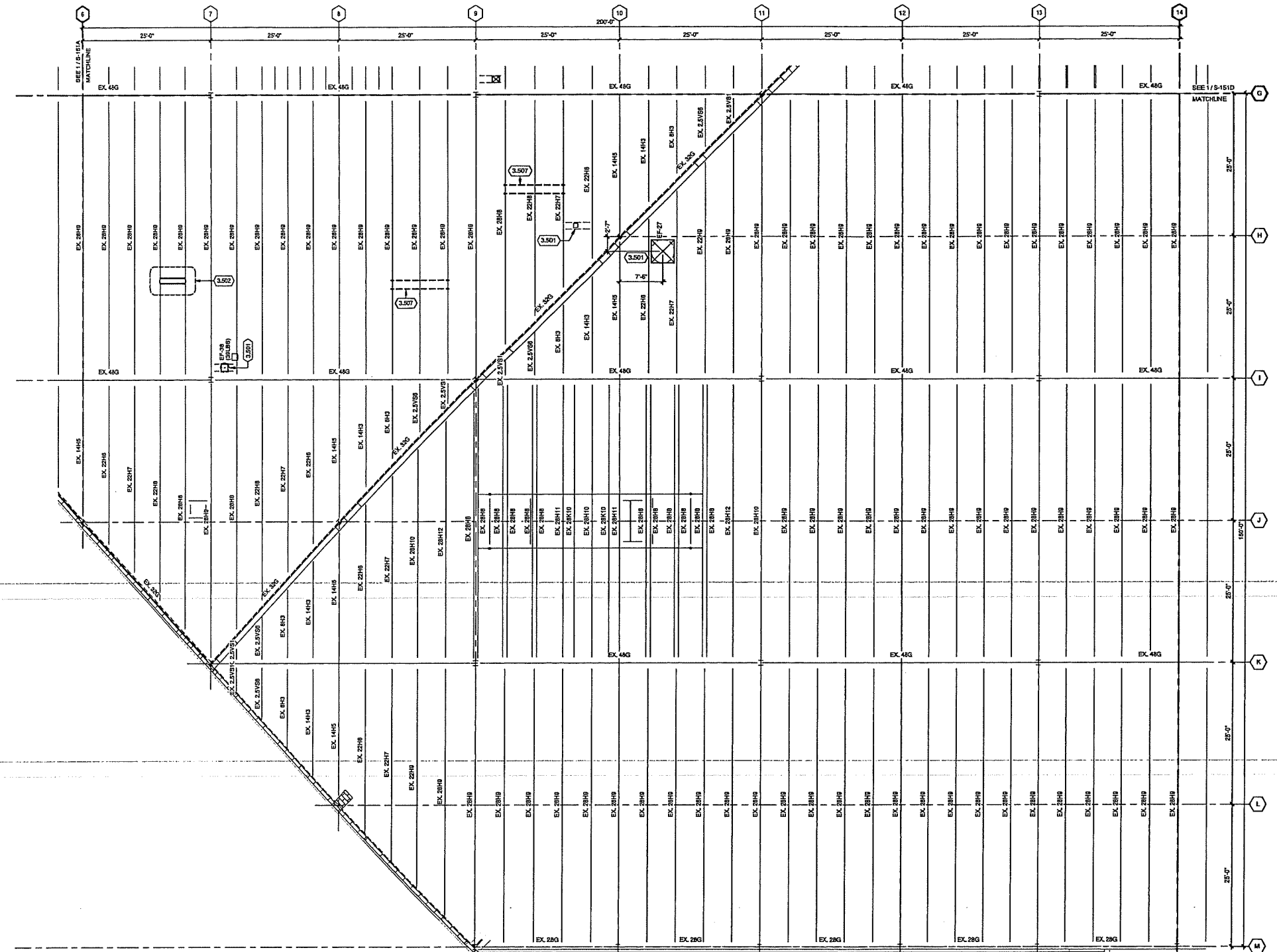
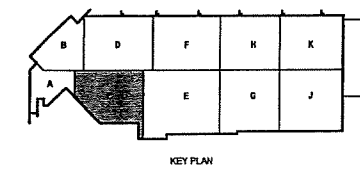
APPENDUM 3

**ROOF FRAMING
PLAN GENERAL NOTES:**

- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND ELEVATION REQUIREMENTS.
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
- REFER TO SHEETS S-041 AND S-051 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR INSTALLED OTHERWISE:
 - A. AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "KS" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "KS" SERIES - MINIMUM 2 1/2"
- ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER-JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
- BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 105-551. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
- REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST.
- CUT BRIDGING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRIDGING AND BRACING TO ORIGINAL CONDITIONS OR S.I. MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
- BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
- NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
- FABRICATE JOIST WITH ZERO CAMBER. PROVIDE BRMS IN SPLICE CONNECTION(S) TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
- PLACEMENT OF BALLAST SHALL NOT EXCEED 125PSF.
- VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP LIMITS.
- DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL BRMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

KEYED NOTES

- 3.501 NEW FRAMED ROOF OPENING. REFER TO DETAIL 105-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.502 NEW SUPPORT FRAMING FOR DESTABILIZATION FAN. REFER TO DETAIL ON SHEET S-051. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.507 HOSE REEL SUSPENSION FRAMING. SEE DETAIL 105-541.



TRUE PLAN
NORTH NORTH
1 ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"



**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

04/08/21 BID SET
 05/20/21 ADDENDUM #3

CONTRACT NO: 2021
 WORK NO: 420500-190860-03
 DATE: APRIL 8, 2021
 DRAWN BY: DYC
 CHECKED BY: HUB/MAE
 SCALE: AS SHOWN

PROJECT:
**ROOF FRAMING
 PLAN - AREA D**

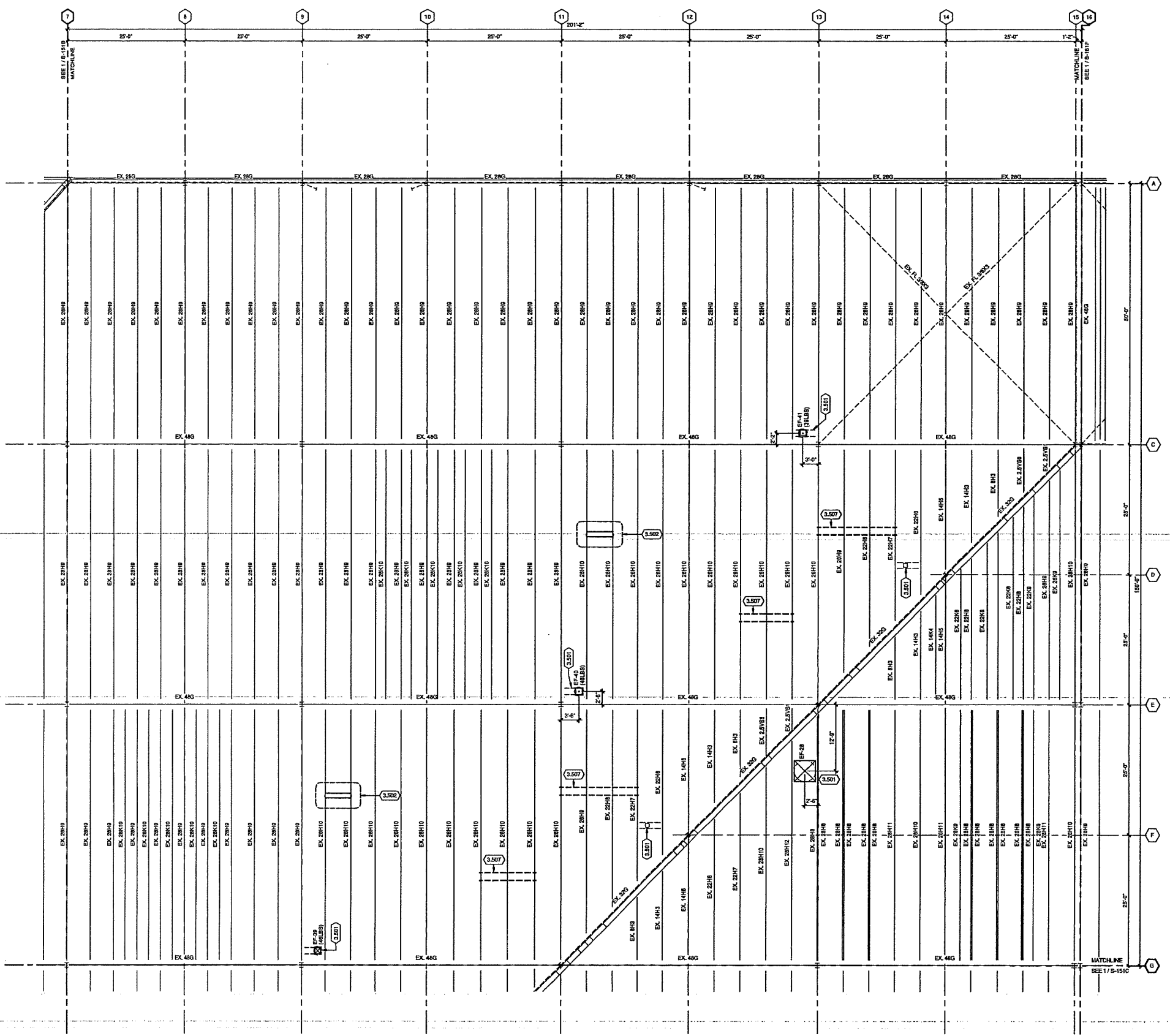
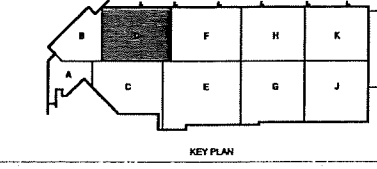
SHEET NO:
S-151D

**ROOF FRAMING
 PLAN GENERAL NOTES:**

1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
8. REFER TO SHEETS S-541 AND S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
9. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 A. AT MASONRY WALLS
 - "C" SERIES - MINIMUM 4"
 - "DC" SERIES - MINIMUM 4"
 B. AT STEEL BEAMS
 - "C" SERIES - MINIMUM 2 1/2"
 - "DC" SERIES - MINIMUM 2 1/2"
10. ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
11. BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-051. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
12. REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST.
13. CUT BRIDGING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRIDGING AND BRACING TO ORIGINAL CONDITIONS OR 5/8 MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
14. BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
15. NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
16. FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTIONS TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
17. PLACEMENT OF BALLAST SHALL NOT EXCEED 12PSF.
18. VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
19. DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

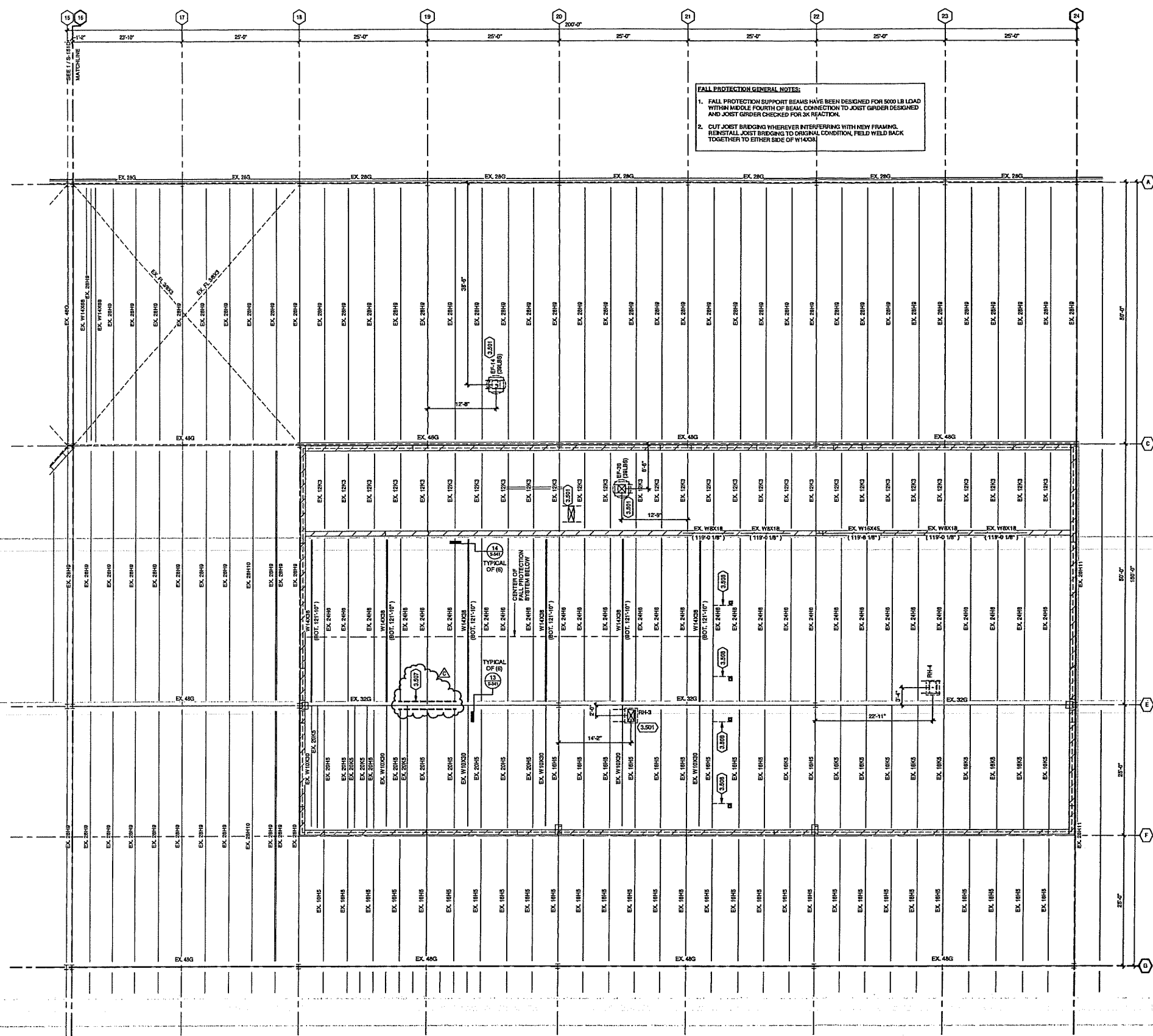
KEYED NOTES

- 3.501 NEW FRAMED ROOF OPENING. REFER TO DETAIL 6S-051. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.502 NEW SUPPORT FRAMING FOR DESTRATIFICATION FAN. REFER TO DETAIL ON SHEET S-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.507 HOSE REEL SUSPENSION FRAMING. SEE DETAIL 16S-041.



TRUE PLAN
 NORTH NORTH
1 ROOF FRAMING PLAN - AREA D
 1/8" = 1'-0"

5/18/2021 12:27:25 AM C:\hvac\Locals\102868_03_0-102_4.dwg mead.hunt.com



FALL PROTECTION GENERAL NOTES:

- FALL PROTECTION SUPPORT BEAMS HAVE BEEN DESIGNED FOR 5000 LB LOAD WITHIN MIDDLE FOURTH OF BEAM CONNECTION TO JOIST GIRDER DESIGNED AND JOIST GIRDER CHECKED FOR 3K REACTION.
- CUT JOIST BRIDGING WHEREVER INTERFERING WITH NEW FRAMING. REINSTALL JOIST BRIDGING TO ORIGINAL CONDITION, FIELD WELD BACK TOGETHER TO EITHER SIDE OF W1403A.

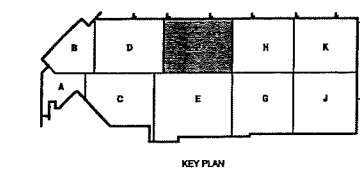
ROOF FRAMING PLAN GENERAL NOTES:

- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- SEE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
- REFER TO SHEETS S-541 AND S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - A. AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "KCS" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "KCS" SERIES - MINIMUM 2 1/2"
- ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SETTER JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
- BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-551. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
- REINFORCING JOIST ORDERS AND INSTALLING SETTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST ORDERS AND INSTALLING SETTER JOIST.
- CUT BRIDGING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRIDGING AND BRACING TO ORIGINAL CONDITIONS OR 3/4 MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
- BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
- NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
- FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTION(S) TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
- PLACEMENT OF BALLAST SHALL NOT EXCEED 12SF.
- VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
- DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

KEYED NOTES

- 3.501 NEW FRAMED ROOF OPENING. REFER TO DETAIL 6/5-551. COORDINATE FRAM. SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND INFIELD CONTRACTORS.
- 3.507 HOIST RIG/SUSPENSION FRAMING. SEE DETAIL 16/5-541.
- 3.508 L2X2X3/8 BRACE TO TOP OF HSS JAMB COLUMN. ATTACH TO ROOF DECK WITH (12) #12 SCREWS. FIELD FILLET WELD TO HSS COLUMN. SEE SHEET S-151F FOR SIZE AND LOCATION OF JAMB COLUMN.

ALTERNATE NO. 1.
SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.



TRUE PLAN NORTH NORTH
1 ROOF FRAMING PLAN - AREA F
1/8" = 1'-0"

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Madison, WI 53752
phone: 608-273-6380
meadhunt.com



**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/08/21 BID SET
C 05/20/21 ADDENDUM 13

CONTRACT NO: 8981
MUN. NO.: 450300-10036.03
DATE: APRIL 8, 2021
DESIGNED BY: DMG
DRAWN BY: NBJ/SAE
CHECKED BY: DRM
SHEET SCALE: DRAWING
SHEET CONTENTS:
ROOF FRAMING PLAN - AREA F
SHEET NO.:
S-151F

Addendum 3

4/10/2021 9:42:28 AM C:\Users\lucan\OneDrive\Desktop\meadhunt\meadhunt.com\vt

ADDENDUM 3

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 mead@mh.com



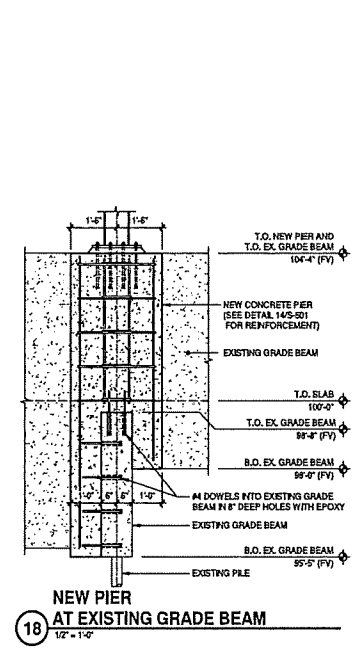
CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/08/21 BID SET
 8 05/13/21 ADDENDUM #2
 C 05/25/21 ADDENDUM #3

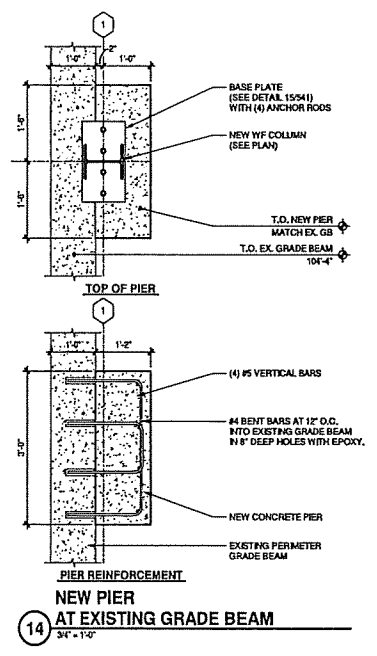
CONTRACT NO. 8961
 PROJECT: 4562000-10000000
 DATE: APRIL 8, 2021
 DESIGNED BY: DXC
 DRAWN BY: NJB/MAE
 CHECKED BY: DRM
 SHEET CONTAINS FOUNDATION DETAILS

SHEET NO.:

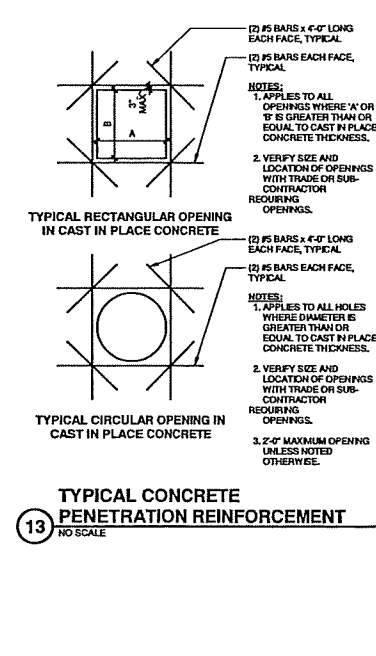
S-501



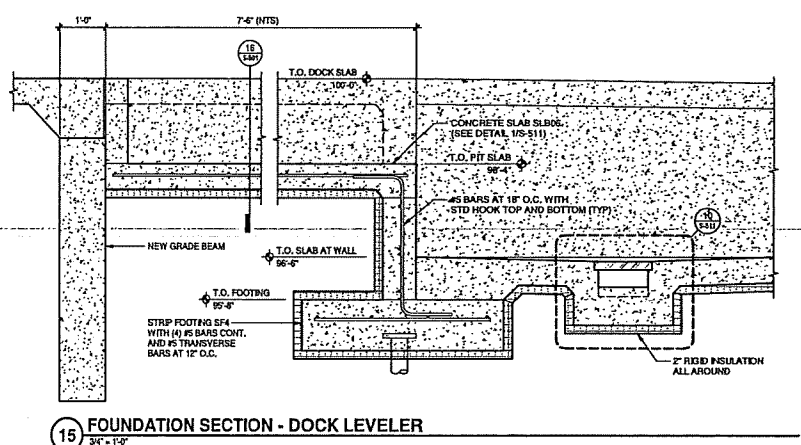
18 NEW PIER AT EXISTING GRADE BEAM
1/2" = 1'-0"



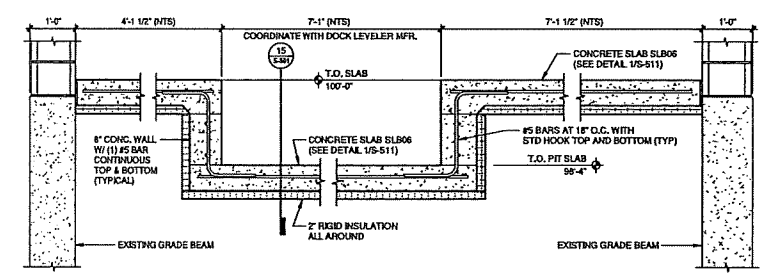
14 PIER REINFORCEMENT AT EXISTING GRADE BEAM
3/4" = 1'-0"



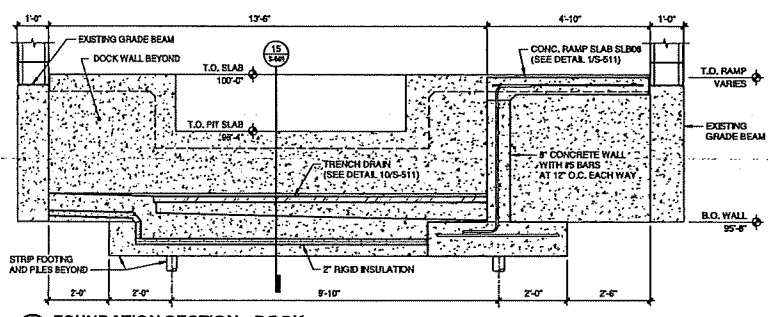
13 TYPICAL CONCRETE PENETRATION REINFORCEMENT
NO SCALE



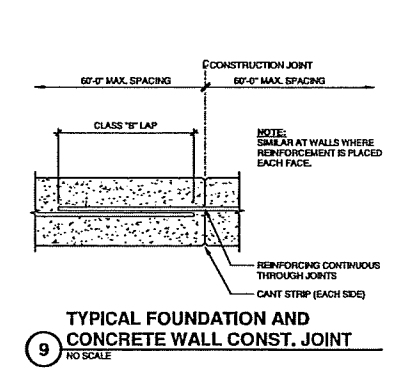
15 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



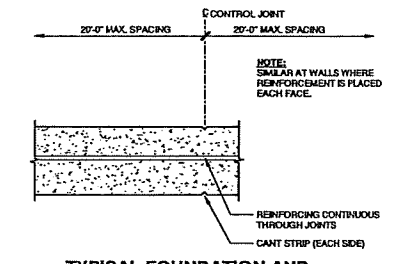
16 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



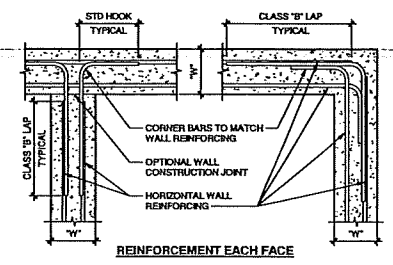
17 FOUNDATION SECTION - DOCK
1/2" = 1'-0"



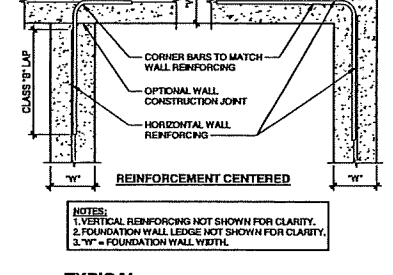
9 TYPICAL FOUNDATION AND CONCRETE WALL CONST. JOINT
NO SCALE



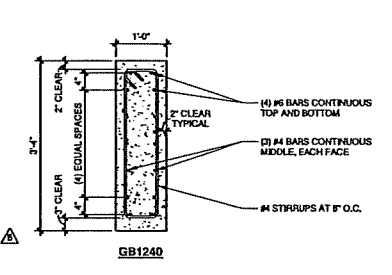
10 TYPICAL FOUNDATION AND CONCRETE WALL CONTROL JOINT
NO SCALE



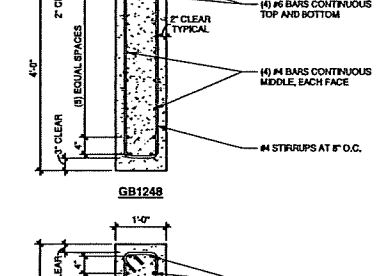
11 TYPICAL FOUNDATION WALL INTERSECTIONS
NO SCALE



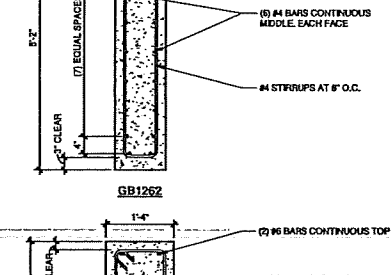
12 GRADE BEAM/FOUNDATION WALL PENETRATION
NO SCALE



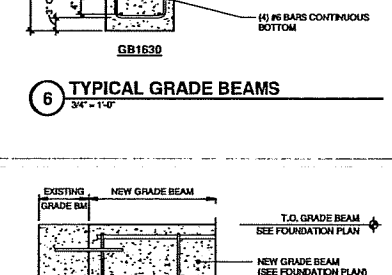
6 TYPICAL GRADE BEAMS
3/4" = 1'-0"



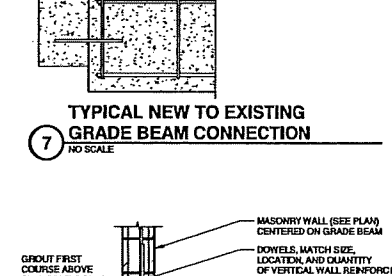
7 TYPICAL NEW TO EXISTING GRADE BEAM CONNECTION
NO SCALE



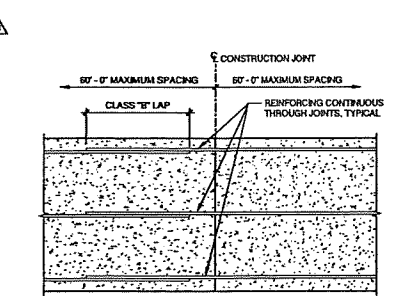
8 TYPICAL MASONRY WALL AT GRADE BEAM
3/4" = 1'-0"



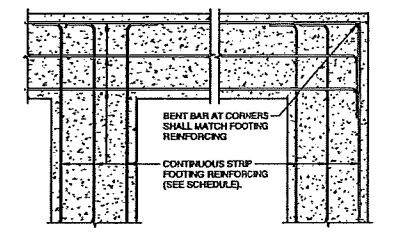
4 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE



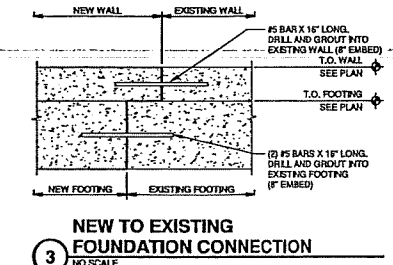
5 TYPICAL GRADE BEAM CORNER/END
NO SCALE



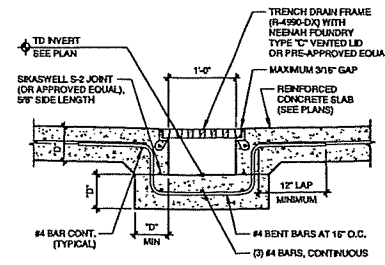
1 TYPICAL FOOTING CONSTRUCTION JOINT
NO SCALE



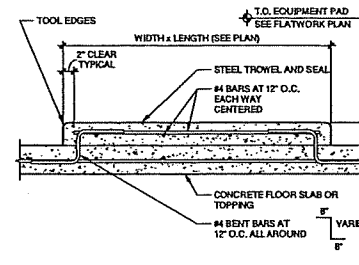
2 TYPICAL FOOTING INTERSECTIONS
NO SCALE



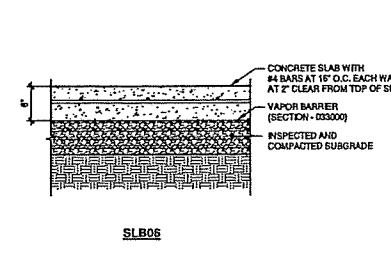
3 NEW TO EXISTING FOUNDATION CONNECTION
NO SCALE



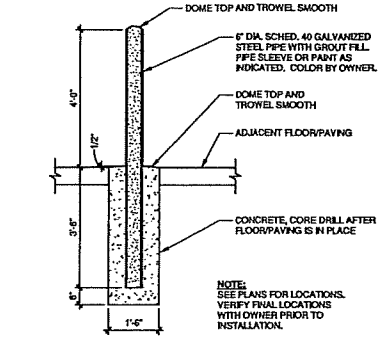
10 CONCRETE TRENCH DRAIN
NO SCALE



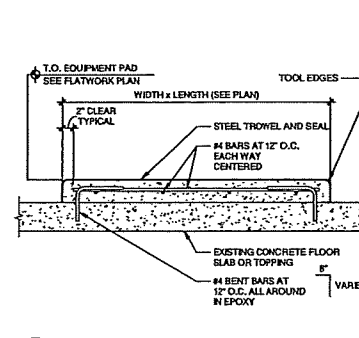
5 EQUIPMENT PADS
NO SCALE



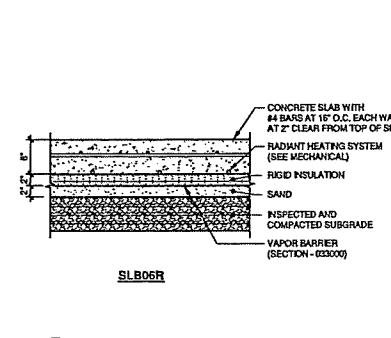
1 STRUCTURAL SLAB TYPES
NO SCALE



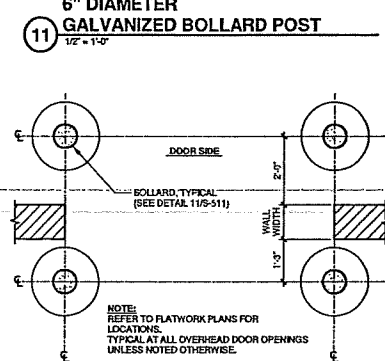
11 6\"/>



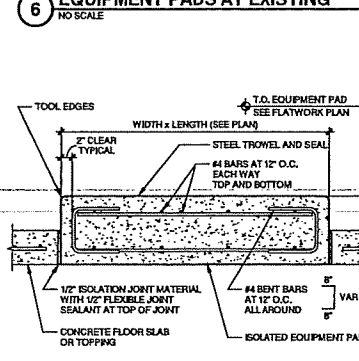
6 EQUIPMENT PADS AT EXISTING
NO SCALE



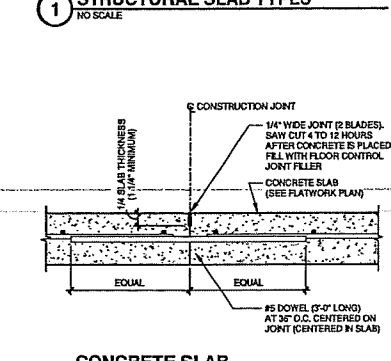
1 STRUCTURAL SLAB TYPES
NO SCALE



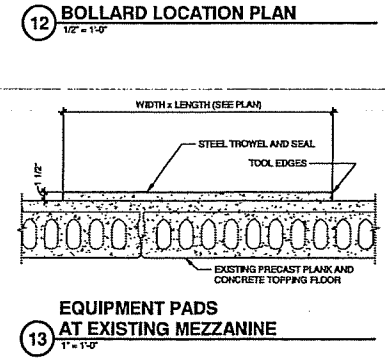
12 BOLLARD LOCATION PLAN
1/2\"/>



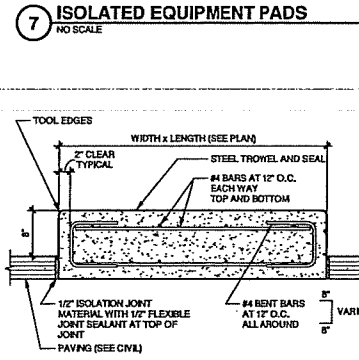
7 ISOLATED EQUIPMENT PADS
NO SCALE



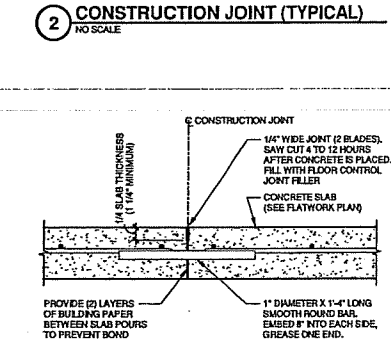
2 CONCRETE SLAB CONSTRUCTION JOINT (TYPICAL)
NO SCALE



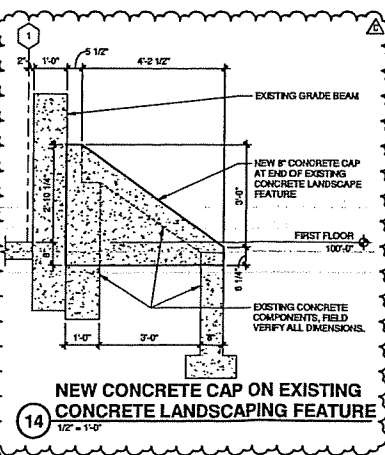
13 EQUIPMENT PADS AT EXISTING MEZZANINE
1\"/>



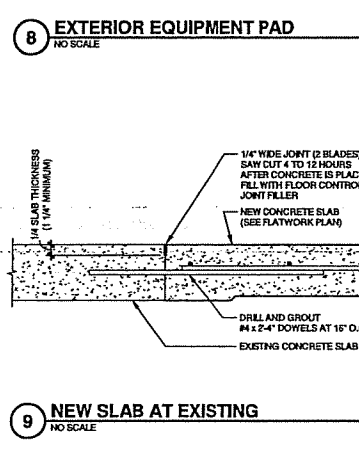
8 EXTERIOR EQUIPMENT PAD
NO SCALE



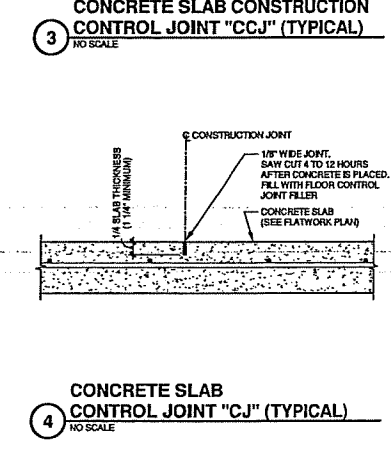
3 CONCRETE SLAB CONSTRUCTION CONTROL JOINT \"CCJ\" (TYPICAL)
NO SCALE



14 NEW CONCRETE CAP ON EXISTING CONCRETE LANDSCAPING FEATURE
1/2\"/>



9 NEW SLAB AT EXISTING
NO SCALE



4 CONCRETE SLAB CONTROL JOINT \"CJ\" (TYPICAL)
NO SCALE



**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

NO. 03
04/06/21 BID SET
C 05/03/21 ADDENDUM 3

CONTRACT NO. 8081
MUN. PROJ. NO. 450000-190696.03
DATE: APRIL 8, 2021
DESIGNED BY: DYC
DRAWN BY: AUS/JAE
CHECKED BY: DDM
SCALE: AS SHOWN
SHEET CONTENTS
FLATWORK DETAILS

SHEET NO.:
S-511

ADDENDUM 3

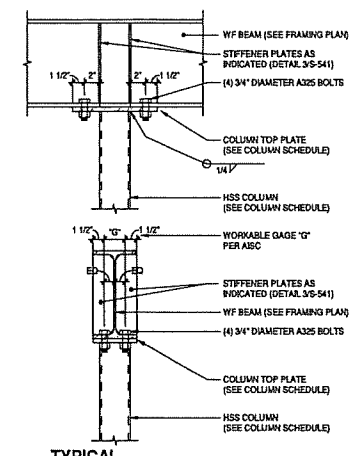


CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

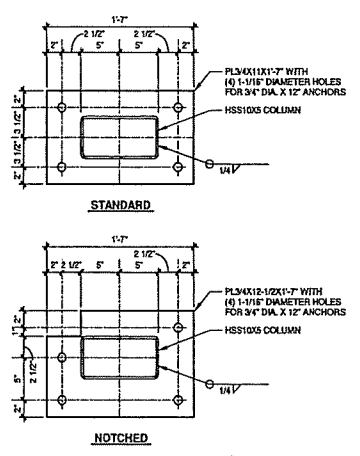
04/06/21 BID SET
 B 05/13/21 ADDENDUM #2
 C 05/20/21 ADDENDUM #3

CONTRACT NO. 8561
 MANUAL: 452000-10000610
 DATE: APRIL 8, 2021
 DESIGNED BY: DDC
 DRAWN BY: NAB/MAE
 CHECKED BY: DNM
 #023 CONTRACTOR
 FRAMING DETAILS

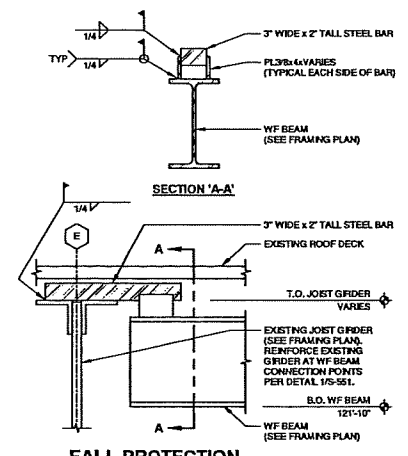
ADDENDUM 3



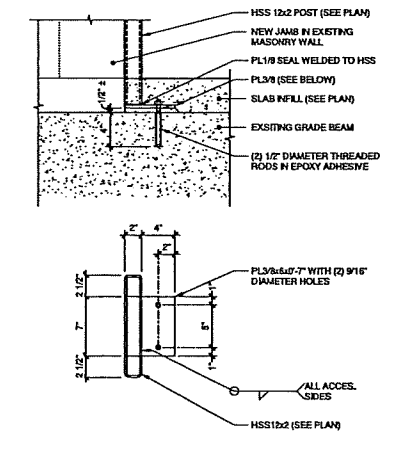
16 TYPICAL WF BEAM OVER HSS COLUMN
 1 1/2\"/>



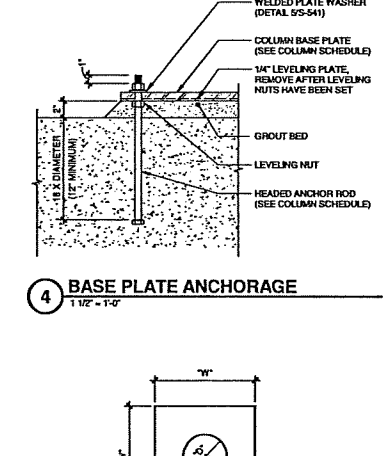
17 COLUMN BASE PLATES
 1 1/2\"/>



13 FALL PROTECTION SUPPORT FRAMING AT GIRDER
 1 1/2\"/>



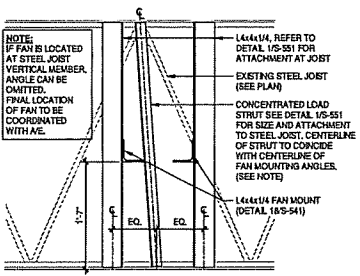
9 HSS 12x2 BASE PLATE
 1 1/2\"/>



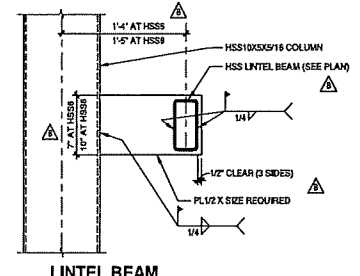
4 BASE PLATE ANCHORAGE
 1 1/2\"/>

NOMINAL BEAM DEPTH INCHES	ROTS OF BOLTS (N)	LENGTH OF ANGLE
W3	10	23 1/2"
W33	9	26 1/2"
W30	8	23 1/2"
W24 - W27	7	20 1/2"
W21	6	17 1/2"
W18	5	14 1/2"
W16	4	11 1/2"
W12 - W14	3	8 1/2"
W8 - W10	2	5 1/2"

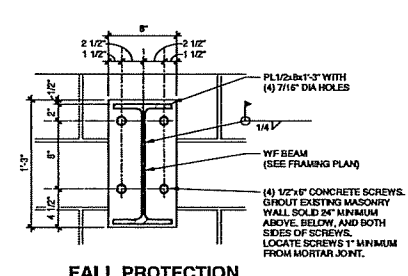
- SINGLE PLATE SHEAR CONNECTION NOTES**
- ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OR NOTED OTHERWISE.
 - STANDARD HOLES OR HORIZONTAL SHORT SLOT HOLES MAY BE UTILIZED AT CONTRACTOR'S OPTION IN EITHER THE CONNECTION ANGLE OR THE FRAMING MEMBERS.
 - WELD "A" MAY BE USED IN LIEU OF "A" SIDE BOLTS AT CONTRACTOR'S OPTION. WELD SHALL BE ON ALL 3 SIDES.
 - FOR HSS-ALIGNED BOLT HOLES, PROVIDE FIELD WELDS. NOTIFY THE ARCHITECT/ENGINEER OF LOCATIONS USING FIELD WELDED CONNECTION.
 - REFER TO TYPICAL COPING DETAIL 3/S-541 FOR CONNECTIONS WHERE COPING IS REQUIRED.
 - THIS DETAIL IS NOT INTENDED FOR EVERY WF SECTION. CHECK RIDING THE FLAET AND COPE DEPTH PRIOR TO FABRICATION.



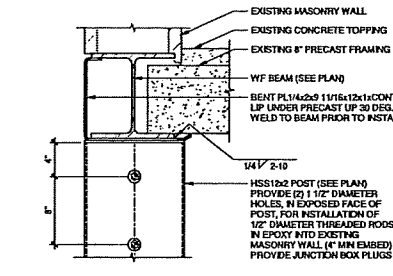
21 "NESTED" FAN CONNECTION
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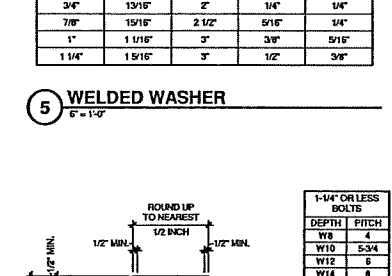
18 LINTEL BEAM CONNECTIONS TO COLUMN
 1 1/2\"/>



14 FALL PROTECTION SUPPORT FRAMING AT MASONRY
 1 1/2\"/>

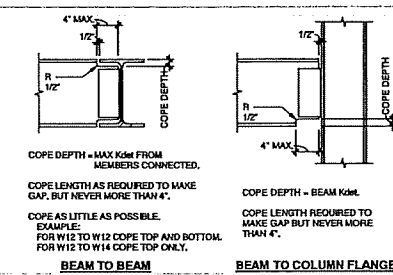


10 W10 AT EXISTING PRECAST
 1 1/2\"/>

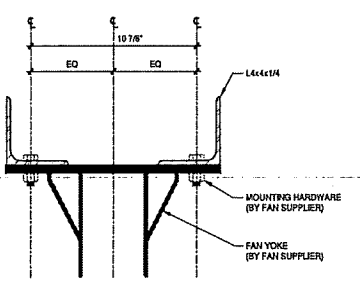


5 WELDED WASHER
 6\"/>

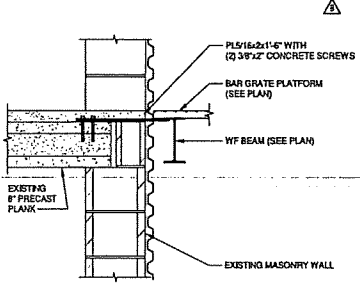
1 TYPICAL SINGLE PLATE SHEAR FRAMING CONNECTION
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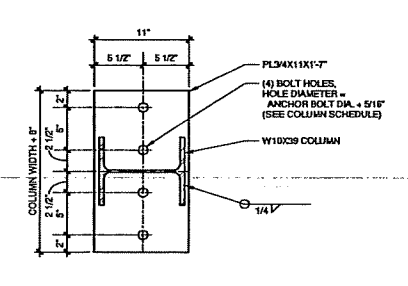
6 WF COLUMN BASE PLATE
 1 1/2\"/>



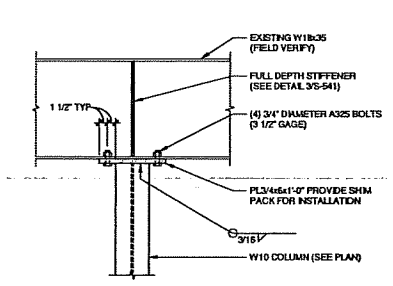
22 FAN YOKE TO ANGLE CONNECTION
 3\"/>



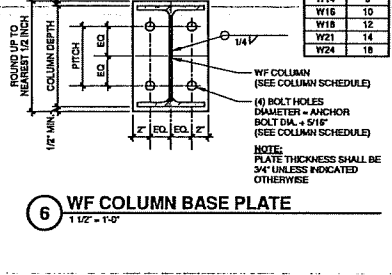
19 PLATFORM FRAMING CONNECTION
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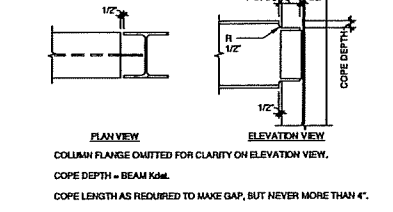
15 W10x39 BASE PLATE
 1 1/2\"/>



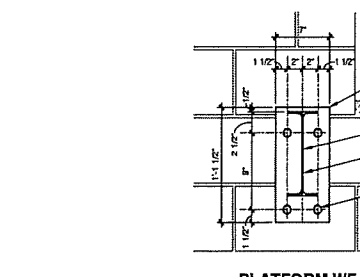
11 W10 AT EXISTING W18x35
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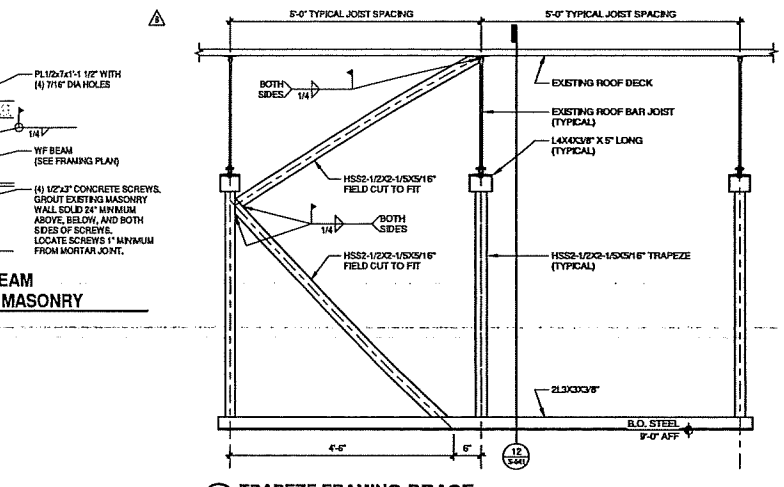
7 HSS COLUMN BASE PLATE
 1 1/2\"/>



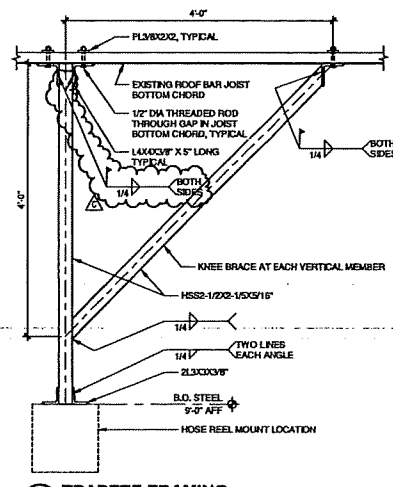
2 TYPICAL COPING DETAIL
 1\"/>



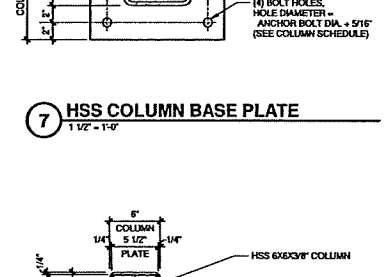
23 PLATFORM WF BEAM CONNECTION AT MASONRY
 1 1/2\"/>



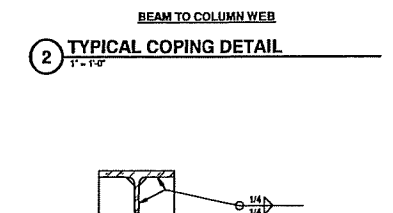
16 TRAPEZE FRAMING BRACE
 3/4\"/>



12 TRAPEZE FRAMING
 1\"/>



8 HSS POST BASE PLATE
 1 1/2\"/>



3 TYPICAL WF STIFFENER PLATE
 1 1/2\"/>

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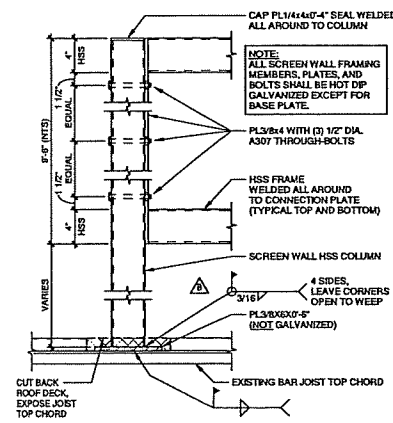


CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

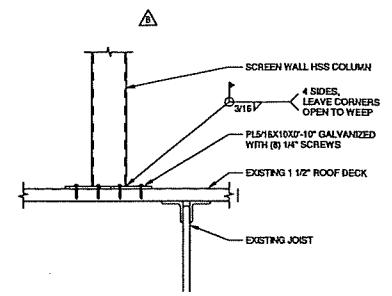
ISSUED:
04/08/21 B/D SET
B 05/13/21 ADDENDUM #2
C 05/20/21 ADDENDUM #3

CONTRACT NO: 8991
JOB NO.: 4503300-19089623
DATE: APRIL 8, 2021
DRAWING BY: DMZ / MLE
CHECKED BY: DPM
DO NOT SCALE DRAWINGS
SHEET CONTENTS
JOIST AND DECK
DETAILS
SHEET NO: S-551

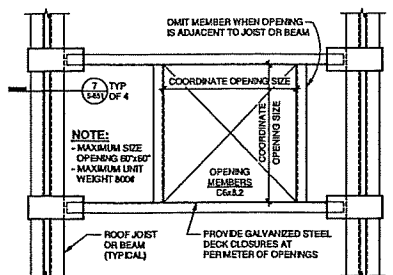
ADDENDUM 3



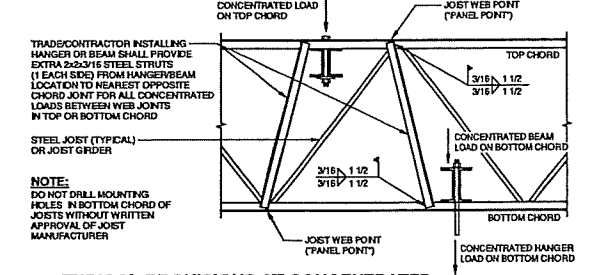
14 SCREEN WALL POST CONNECTIONS
1 1/2\" = 1'-0"



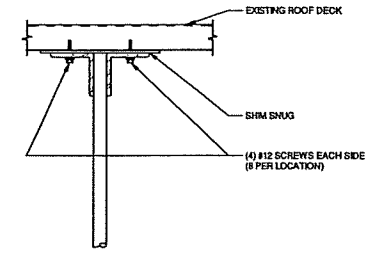
9 SCREEN WALL POST CONNECTION
1 1/2\" = 1'-0"



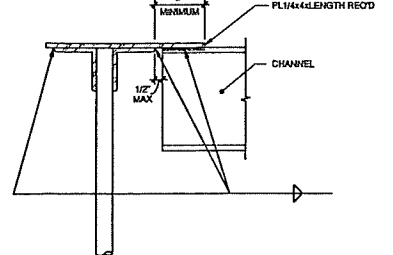
6 TYPICAL FRAMED ROOF OPENING
1\" = 1'-0"



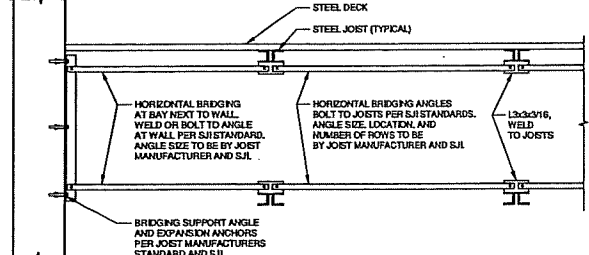
1 TYPICAL PROVISIONS AT CONCENTRATED LOADS ON OPEN WEB STEEL JOIST/GIRDERS
3/4\" = 1'-0"



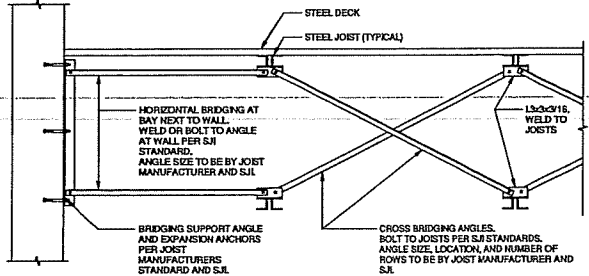
10 JOIST TO DECK CONNECTION
3\" = 1'-0"



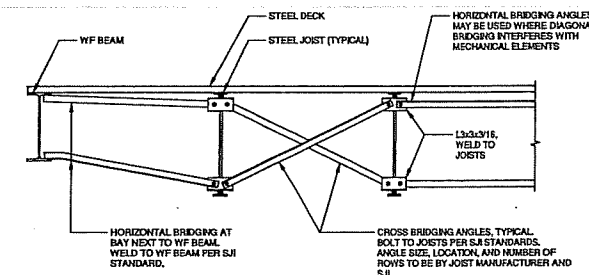
7 CHANNEL TO JOIST CONNECTION
3\" = 1'-0"



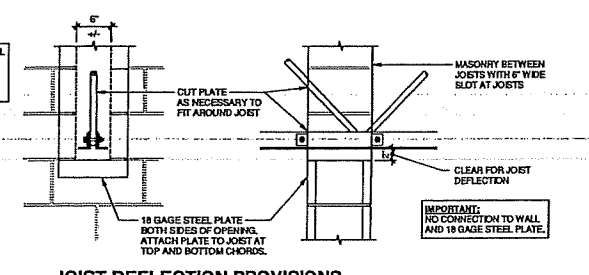
2 HORIZONTAL JOIST BRIDGING AT WALL
3/4\" = 1'-0"



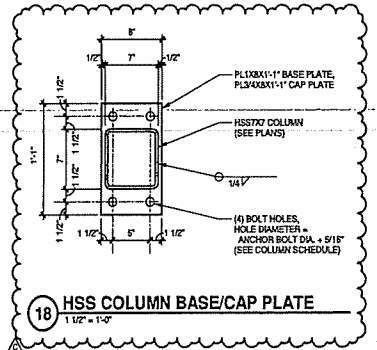
3 DIAGONAL JOIST BRIDGING AT WALL
3/4\" = 1'-0"



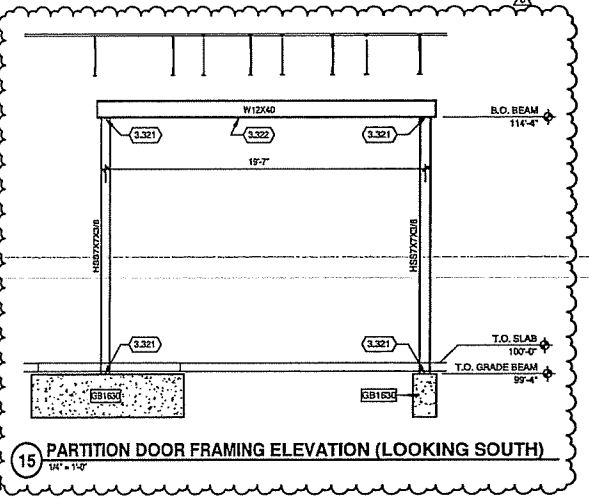
4 JOIST BRIDGING AT WF BEAM
3/4\" = 1'-0"



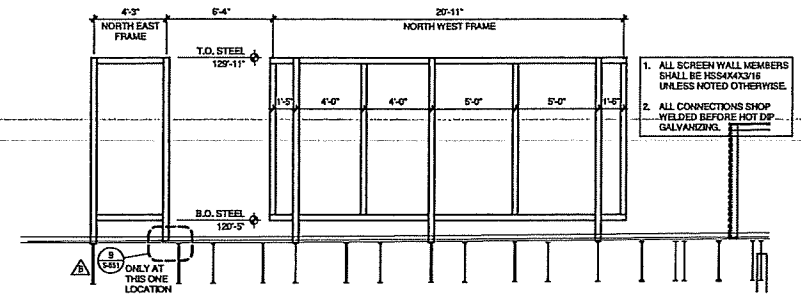
5 JOIST DEFLECTION PROVISIONS AT NON-LOAD BEARING MASONRY, TYPICAL
1\" = 1'-0"



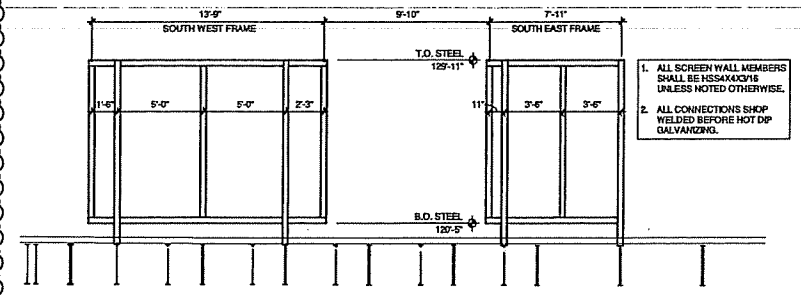
18 HSS COLUMN BASE/CAP PLATE
1 1/2\" = 1'-0"



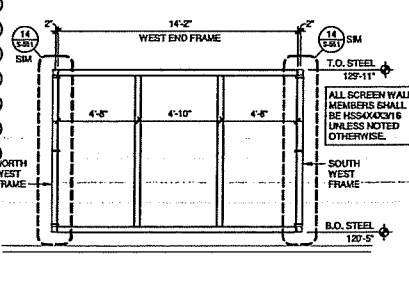
15 PARTITION DOOR FRAMING ELEVATION (LOOKING SOUTH)
1/4\" = 1'-0"



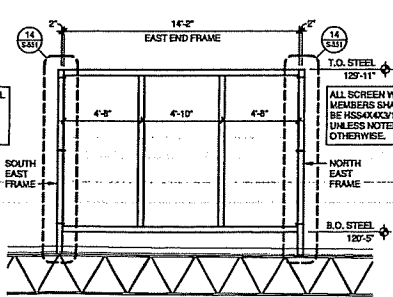
11 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING SOUTH)
1/4\" = 1'-0"



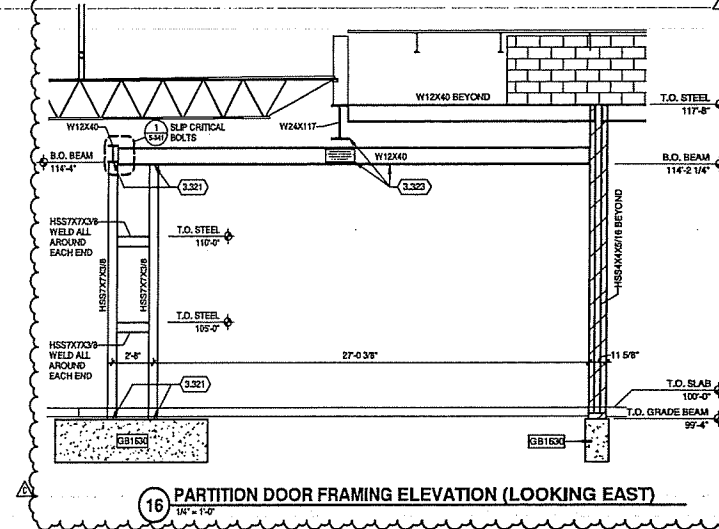
12 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING NORTH)
1/4\" = 1'-0"



13 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING EAST)
1/4\" = 1'-0"



8 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING WEST)
1/4\" = 1'-0"



16 PARTITION DOOR FRAMING ELEVATION (LOOKING EAST)
1/4\" = 1'-0"

KEYED NOTES
3.321 HSS70x39 COLUMN, SEE DETAIL 18-0-551 FOR BASE/CAP PLATE.
3.322 MAKE NO CONNECTION BETWEEN THE W12 PARTITION SUPPORT FRAME AND THE ROOF STRUCTURE.
3.323 MAKE NO CONNECTION BETWEEN THE W12 PARTITION SUPPORT FRAME AND THE W24 BEAM ABOVE. ATTACH SCRS TO BOTH SIDES OF W12 BEAM AT MIDPOINT OF BEAM. SCRS SHALL HAVE 1\" RAISED LETTERING THAT STATES 'NO CONNECTION BETWEEN THIS W12 AND THE W24 ABOVE. DO NOT INSTALL ANYTHING BETWEEN THE BEAMS.' PART SIGN YELLOW WITH RED LETTERING.

S:\2021\1533331.PM C:\meadhunt\meadhunt.com\1533331.dwg 05/13/21 10:08:00 AM

ADDENDUM 3

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-5380
 mead@mh.com

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 This is a preliminary drawing and is not to be used for construction or other purposes without the written approval of Mead & Hunt, Inc. All dimensions and notes shall govern over dimensions and notes on other drawings.



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/08/21 BID SET
 C 05/20/21 ADDENDUM #3

CONTRACT NO. 8981
 PROJECT NO. 4352500-1908R03D
 DATE: APRIL 8, 2021
 DESIGNED BY: SOX
 DRAWN BY: NJO, DUM
 CHECKED BY: RCL, REX
 DATE: 05/20/21

SHEET COUNTS
 FIRST FLOOR PLAN - AREA A

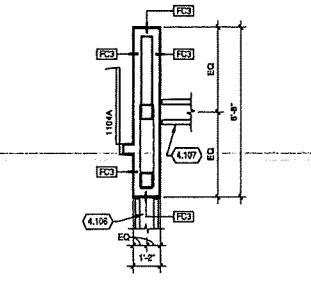
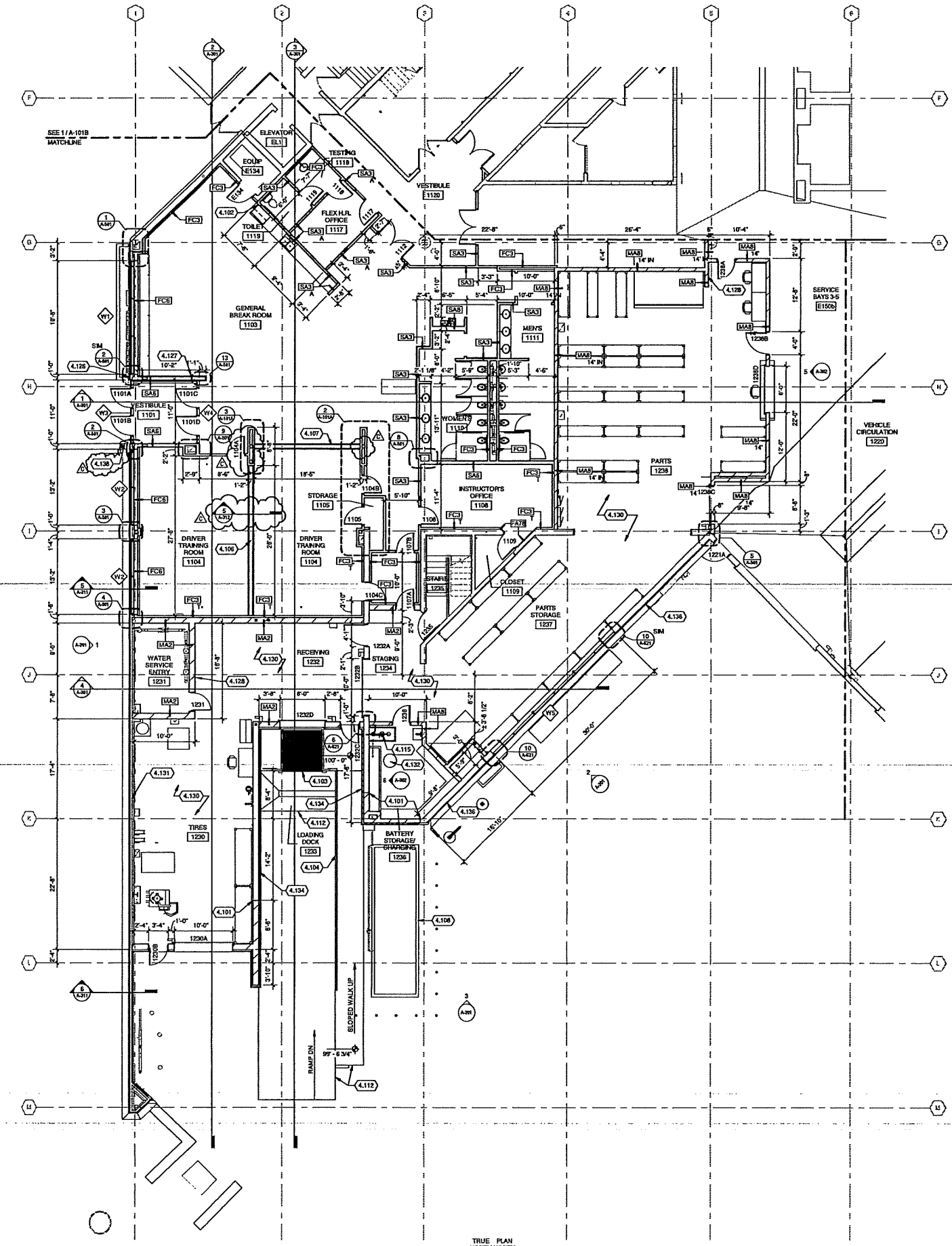
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FLOOR PLAN GENERAL NOTES:

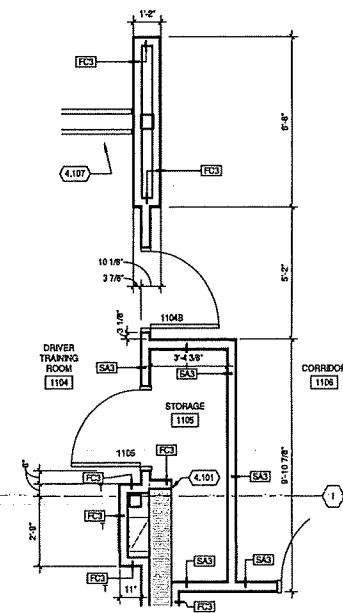
1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN - 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARD OR CMU), UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-000 THROUGH G-009 FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND GLASS 1, DW 2 REQUIREMENTS.
6. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILINGS, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. GENERAL CONTRACTOR SHALL PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT, REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY ELECTRIC DEDICATED BREAKERS FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. EXISTING AND NEW CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL. PROVIDE ARDEX OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.
11. RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
12. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CUTOFF BOUNDARIES.
13. REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND UNDER DOORWAYS SHOWN.
14. REFERENCE SHEET I-107S FOR FURNITURE LAYOUTS AND COORDINATION REQUIREMENTS.
15. REFERENCE SHEET O-107S FOR EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.
16. REFERENCE G-101 FOR CONSTRUCTION STAGING AND SEQUENCING PHASING REQUIREMENTS.

KEYED NOTES

- 4.101 ALIGN FACE OF WALL WITH EXISTING
- 4.102 ALIGN STUD FACE WITH FACE OF EXISTING CMU WALL
- 4.103 PROVIDE DOCK LEVELER
- 4.104 PROVIDE GUARDRAIL AT LOADING DOCK AREA - SEE DETAIL 18A-501
- 4.105 VERTICAL LIFT MOVABLE PARTITION - 25'-0" W X 11'-6" H
- 4.107 VERTICAL LIFT MOVABLE PARTITION - 18'-5" W X 11'-6" H
- 4.108 ELECTRICAL GENERATOR AND PAD - SEE ELECTRICAL
- 4.112 SLOPED LOADING DOCK AREA PAVEMENT, TRENCH DRAIN AND SIDEWALL - SEE STRUCTURAL
- 4.115 EYE AND SHOWER WASH, SEE PLUMBING DRAWINGS
- 4.126 PROVIDE FIRE DEPARTMENT ACCESS KNOX BOX
- 4.127 PROVIDE FIRE EXTINGUISHER AND RECESSED FIRE CABINET
- 4.128 PROVIDE FIRE EXTINGUISHER
- 4.130 PROVIDE MAINTENANCE PAINT PREPARATION WITH HIGH PRESSURE CYCLOHEXIMIDE-NITROGEN JET CLEANING FOR REMOVAL OF EXHAUST SMOOT AT EXISTING WALLS, CEILINGS, AND COMPONENTS THAT ARE LEFT EXPOSED OR REQUIRING PAINT.
- 4.131 REINSTALL SALVAGED INTERIOR METAL WALL PANELS
- 4.132 CONTAINMENT FIT CAP - REF STRUCTURAL
- 4.134 PROVIDE METAL WALL PANEL (MWP) ON 3" Z FLOORING WITH 2" RIGID INSULATION AND 1" AIR SPACES, AND A FLUID APPLIED MEMBRANE AIR BARRIER OVER EXISTING CMU
- 4.136 PROVIDE METAL WALL PANEL (MWP) AS NOTED ON 916" HAT CHANNEL ATTACHED TO EXISTING CMU WALL
- 4.138 PROVIDE CONCRETE END TIED INTO EXISTING LANDSCAPE RETAINING WALL. SEE STRUCTURAL

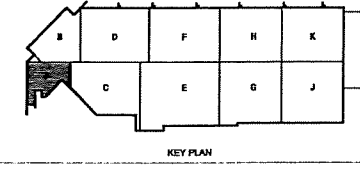


TRUE PLAN NORTH/NORTH
ENLARGED PLAN DETAIL
 3/8" = 1'-0"



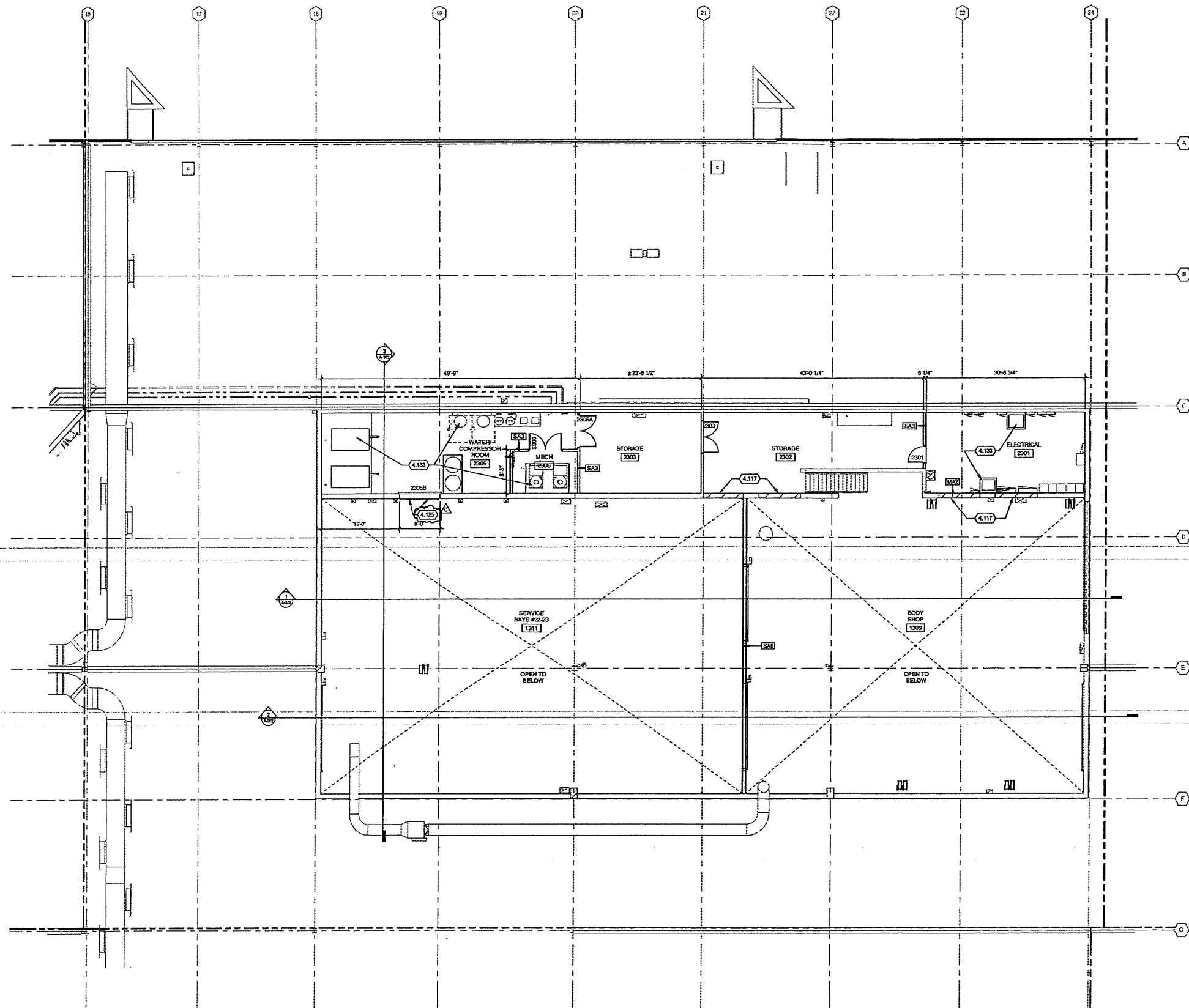
TRUE PLAN NORTH/NORTH
ENLARGED PLAN DETAIL AT STORAGE 1106
 3/8" = 1'-0"

TRUE PLAN NORTH/NORTH
FIRST FLOOR PLAN - AREA A
 1/8" = 1'-0"



KEY PLAN

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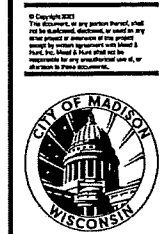
FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN - 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARD OR G.M.), UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-020 THROUGH G-030 FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1, DIV 2 REQUIREMENTS.
6. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILINGS, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PAPER WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. GENERAL CONTRACTOR SHALL PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLEUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT, REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL. PROVIDE ARDEX OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.
11. RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
12. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
13. REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
14. REFERENCE SHEET H-100'S FOR FURNITURE LAYOUTS AND COORDINATION REQUIREMENTS.
15. REFERENCE SHEET G-100'S FOR EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.
16. REFERENCE G-101 FOR CONSTRUCTION STAGING AND SEQUENCING PHASING REQUIREMENTS.

KEYED NOTES

- 4.117 INFILL WALL OPENING TO MATCH ADJACENT FACES AND PAINT BOTH SIDES
- 4.120 NEW EQUIPMENT PAD, SEE STRUCTURAL DRAWINGS
- 4.124 PROVIDE STEEL GRATING PLATFORM WITH REMOVABLE RAILINGS
- 4.125 REMOVABLE RAILING SEE DETAIL 14 & 17A-501
- 4.133 MEP EQUIPMENT, TYP

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 509-273-6380
 meadhunt.com

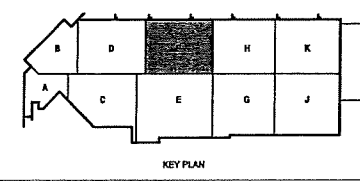


**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

ISSUED:
 04/08/21 BID SET
 C 05/20/21 ADDENDUM #3

CONTRACT NO: 8081
 HIGH NO: 4502000-10086.00
 DATE: APRIL 8, 2021
 DESIGNED BY: SOX
 DRAWN BY: AND, DJM
 CHECKED BY: RCL, REK
 NOT SCALE DRAWINGS
 SHEET CONTAINS
 SECOND FLOOR
 PLAN - AREA F

SHEET NO:
A-102F



TRUE PLAN NORTH NORTH

1 SECOND FLOOR PLAN - AREA F
 1/8" = 1'-0"

5/18/2021 10:44:42 PM C:\pwork\locat\108181\108181-108181-108181.dwg 10/27/2021

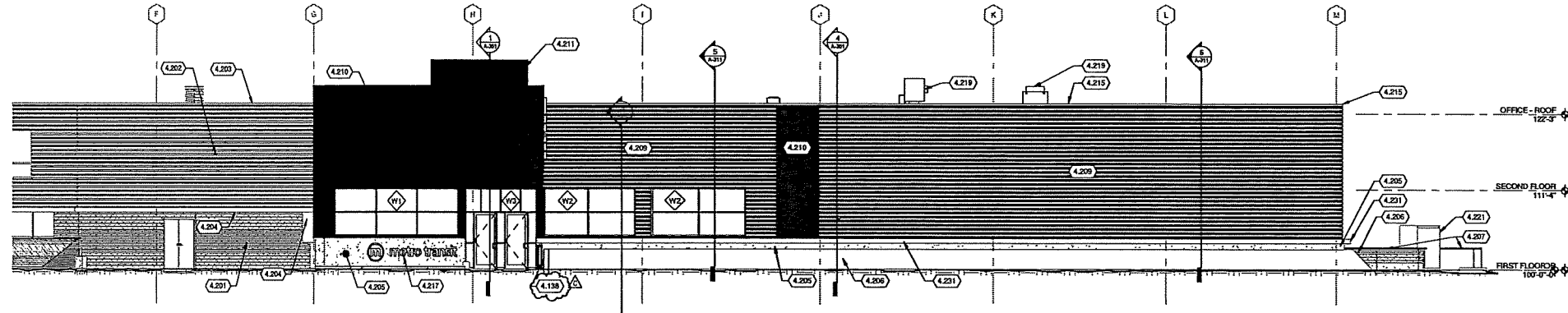
Addendum 3

ADDENDUM 3

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 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com



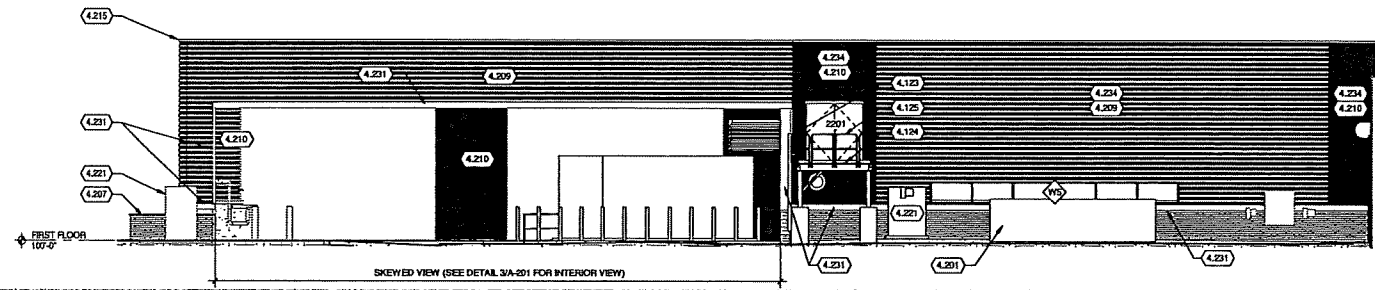
CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703



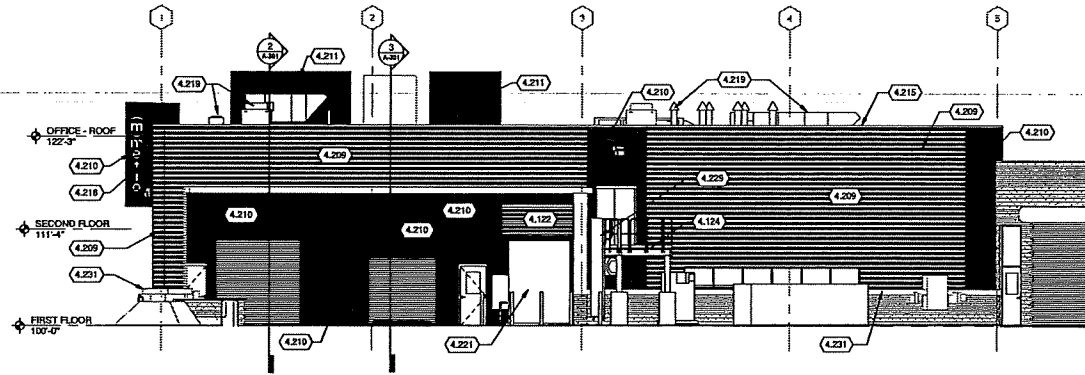
1 WEST BUILDING ELEVATION
 1/8" = 1'-0"

KEYED NOTES

- 4.122 PROVIDE MECHANICAL LOUVER IN EXISTING OPENING. SEE MECHANICAL DRAWINGS.
- 4.123 EGRESS LADDER WITH LADDER GUARD, PROVIDE LOCKING MECHANISM AT THE TOP PLATFORM.
- 4.124 PROVIDE STEEL GRATING PLATFORM WITH REMOVABLE RAILINGS.
- 4.125 REMOVABLE RAILING. SEE DETAIL 14.1-FR-101.
- 4.138 PROVIDE CONCRETE END TIED INTO EXISTING LANDSCAPE RETAINING WALL. SEE STRUCTURAL.
- 4.201 EXISTING BRICK, TO REMAIN.
- 4.202 EXISTING METAL WALL PANEL TO REMAIN.
- 4.203 EXISTING METAL WALL CAP TO REMAIN.
- 4.204 EXISTING STEEL PLATE TO REMAIN.
- 4.205 EXISTING CONCRETE GRADE BEAM TO REMAIN.
- 4.206 EXISTING SLOPED CONCRETE, TO REMAIN.
- 4.207 EXISTING SCREEN WALLS, TO REMAIN.
- 4.209 METAL PANEL (MWP-1).
- 4.210 METAL PANEL (MWP-2).
- 4.211 SCREENWALL: METAL PANEL (MWP-3).
- 4.215 PREFINISHED METAL CAP, COLOR TO MATCH MWP-2.
- 4.217 HORIZONTAL SIGNAGE LOCATION BY OTHERS.
- 4.218 VERTICAL SIGNAGE LOCATION BY OTHERS.
- 4.219 MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
- 4.221 ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS.
- 4.229 STEEL LADDER WITH COVER AND RELEASE AT TOP SIDE.
- 4.231 EXISTING STEEL PLATE TO REMAIN, PAINT METRO BLUE, TYP.
- 4.234 METAL WALL PANEL AS NOTED ON #116' HAT CHANNEL ATTACHED TO EXISTING CURB WALL.



2 SOUTHEAST BUILDING ELEVATION
 1/8" = 1'-0"



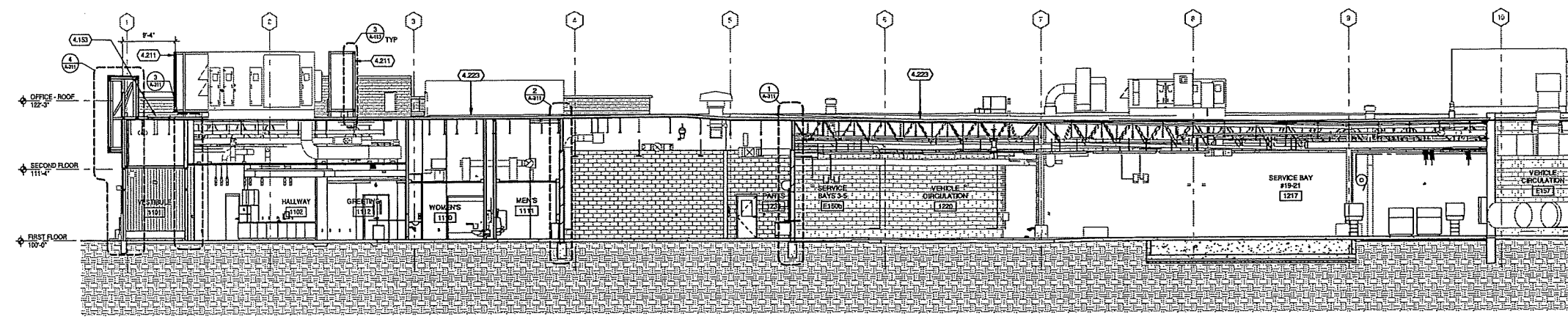
3 SOUTH BUILDING ELEVATION
 1/8" = 1'-0"

D40621 BID SET
 C 05/2021 ADDENDUM #3

CONTRACT NO: 6581
 PROJECT NO: 409320-10050.00
 DATE: APRIL 8, 2021
 DESIGNED BY: SZX
 DRAWN BY: NJO, DLM
 CHECKED BY: RCL, REK
 1/8" = 1'-0" SCALE DIMENSIONS
 EXTERIOR ELEVATIONS

SHEET NO.:
A-201

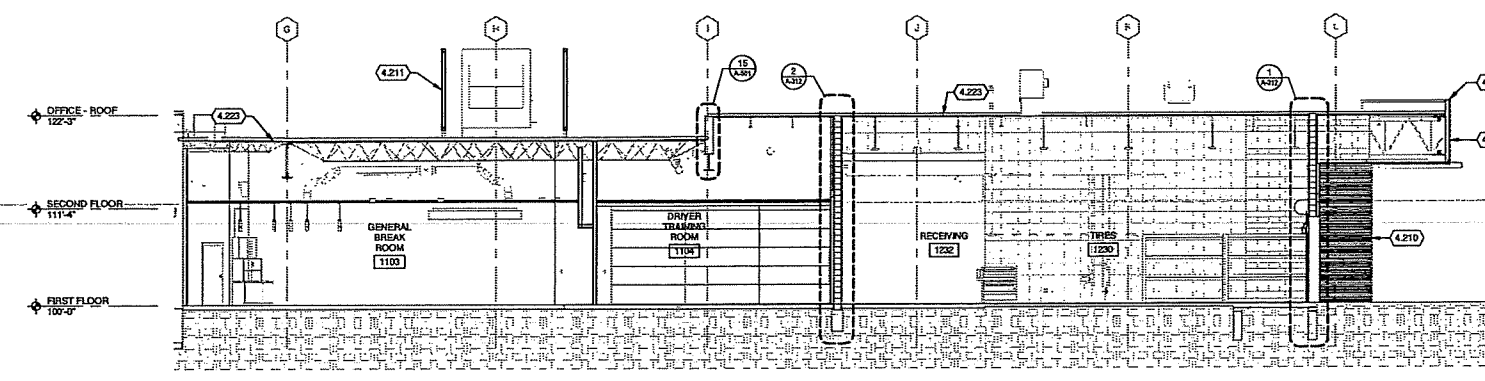
ADDENDUM 3



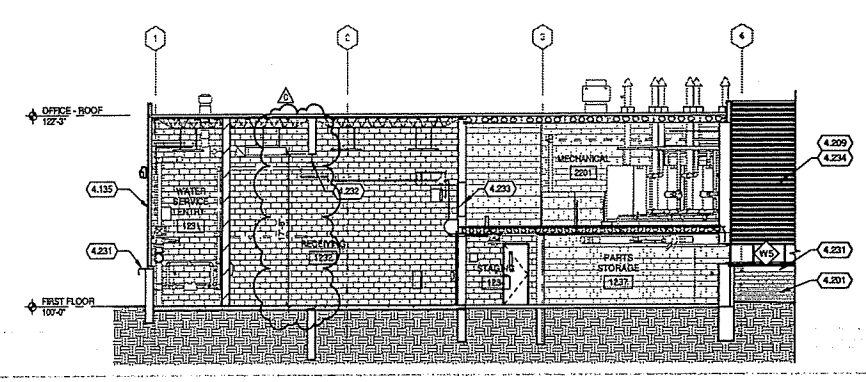
1 BUILDING SECTION
1/8" = 1'-0"

KEYED NOTES

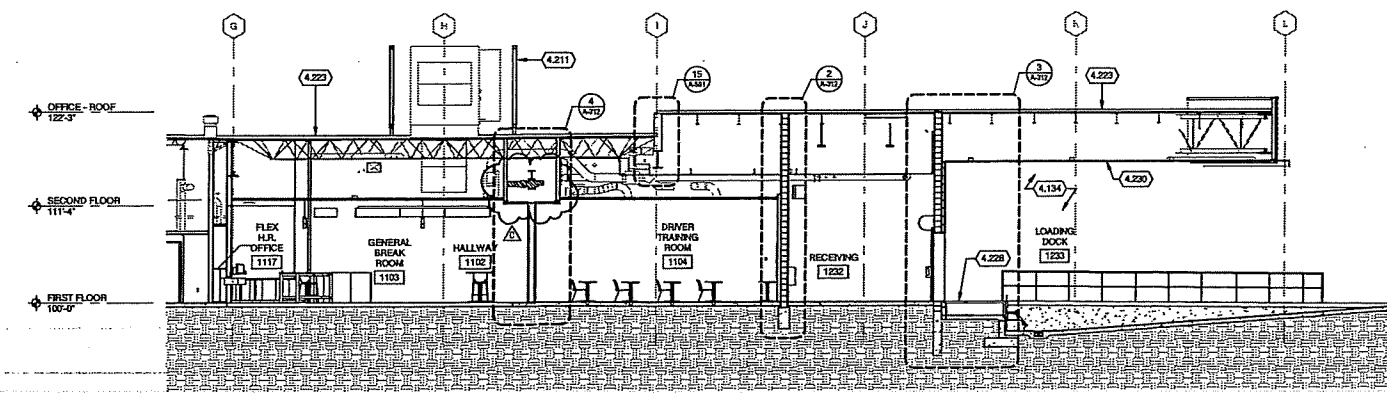
- 4.134 PROVIDE METAL WALL PANEL (MWP2) ON 3" Z-FURRING WITH 2" RIGID INSULATION AND 1" AIR SPACE, AND A FLUID APPLIED MEMBRANE AIR BARRIER OVER EXISTING CMU.
- 4.135 PROVIDE METAL WALL PANEL (MWP1) OVER FLUID-APPLIED MEMBRANE AIR BARRIER ON 8" GYP. SHEATHING OVER EXISTING 2 1/2" STUD, FILL ENTIRE CAVITY WITH INSULATION, VAPOR BARRIER, 5/8" GYP. BD.
- 4.135 INFILL AND PATCH ROOF TO MAINTAIN EXISTING WARRANTY.
- 4.201 EXISTING BRICK, TO REMAIN.
- 4.209 METAL PANEL (MWP-1)
- 4.210 METAL PANEL (MWP-2)
- 4.211 SCREENWALL, METAL PANEL (MWP-3)
- 4.215 PREFINISHED METAL CAP, COLOR TO MATCH MWP-2
- 4.223 EXISTING ROOFING TO REMAIN - PATCH NEW PENETRATIONS TO MECHANICAL, TYP.
- 4.228 DOCK LEVELER
- 4.230 METAL SOFFIT (MWP4) ON EXISTING FRAMING - INSTALL (4) REPLACEMENT 12X12 LOUVER VENTS
- 4.231 EXISTING STEEL PLATE TO REMAIN, PAINT METRO BLUE, TYP.
- 4.232 STEEL BEAM AT CMU WALL REMOVAL - REF STRUCTURAL.
- 4.233 INFILL WALL OPENING WITH CMU TO MATCH EXISTING WIDTH.
- 4.234 METAL WALL PANEL AS NOTED ON 9 1/2" HAT CHANNEL ATTACHED TO EXISTING CMU WALL.



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



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



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

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1101 EAST WASHINGTON AVE.
MADISON, WI 53703

MEED
04/09/21 BID SET
C 05/20/21 ADDENDUM #3

CONTRACT NO: 8981
MARK NO: 4503300-190896.00
DATE: APRIL 8, 2021
DESIGNED BY: SZK
DRAWN BY: NJD, DJA
CHECKED BY: RCL, REK
DO NOT SCALE DIMENSIONS

SHEET COMMENTS
BUILDING SECTIONS

SHEET NO:

A-301

10/20/21 8:52:20 AM C:\pwork\10088888\03-14-2021\10088888.dwg 2:10:21 PM

It is the responsibility of the contractor to verify the accuracy of the information provided in this addendum. The contractor shall be responsible for any omissions or errors in this addendum.

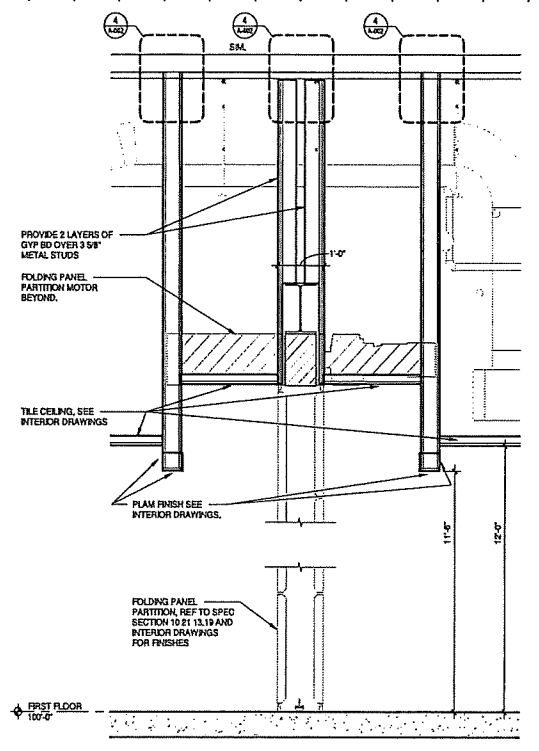


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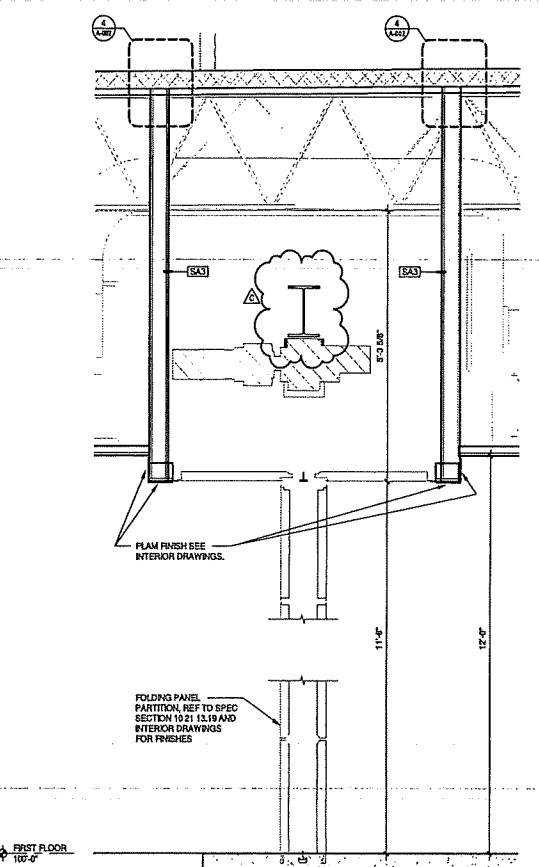
04/08/21 BID SET
 C 05/20/21 ADDENDUM #3

CONTRACT NO: 2081
 REV. NO.: 435300-100000003
 DATE: APRIL 8, 2021
 DRAWN BY: SDK
 CHECKED BY: NJO, DJM
 CHECKED BY: RICL, REK
 SHEET CONTAINS: WALL SECTIONS

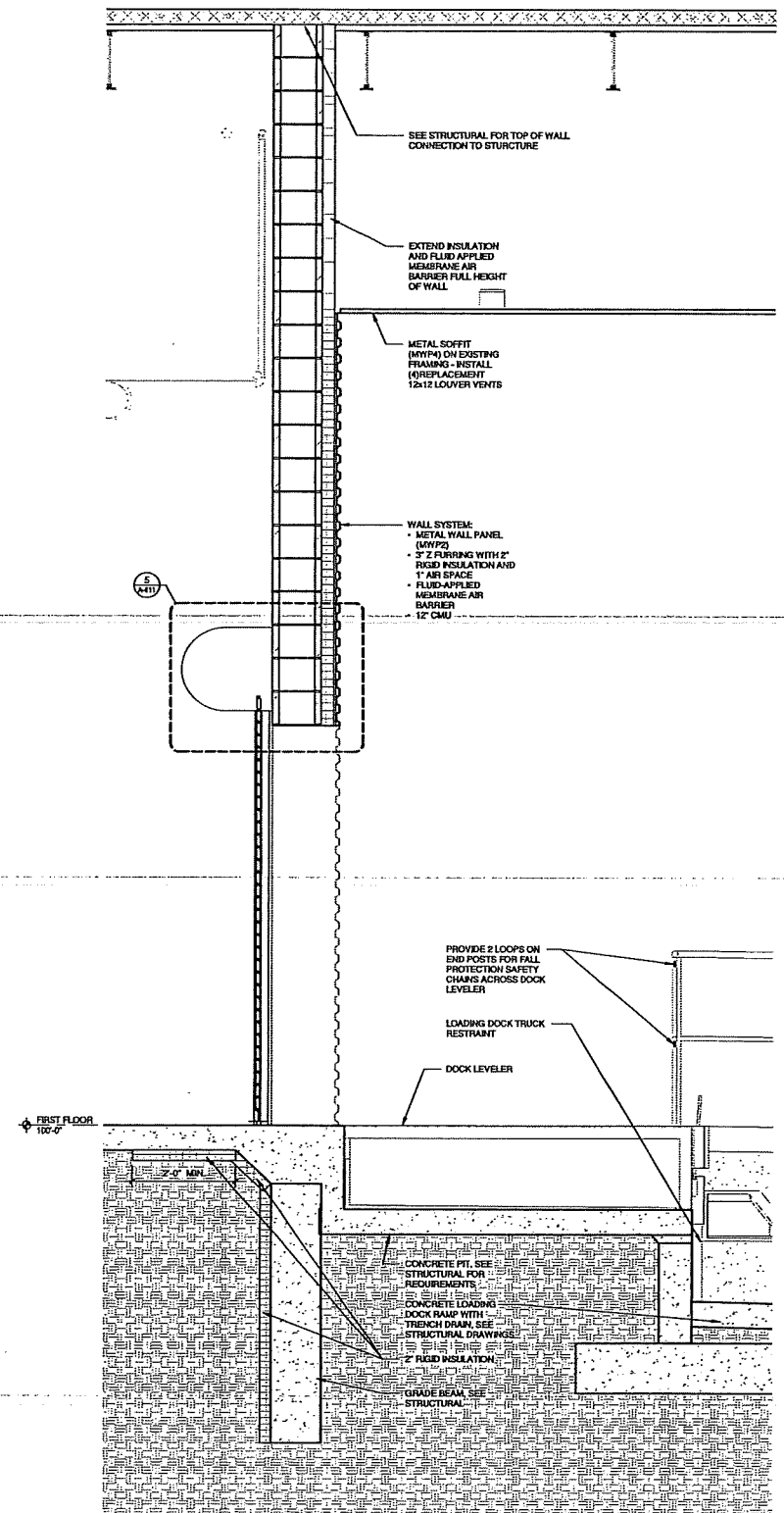
A-312



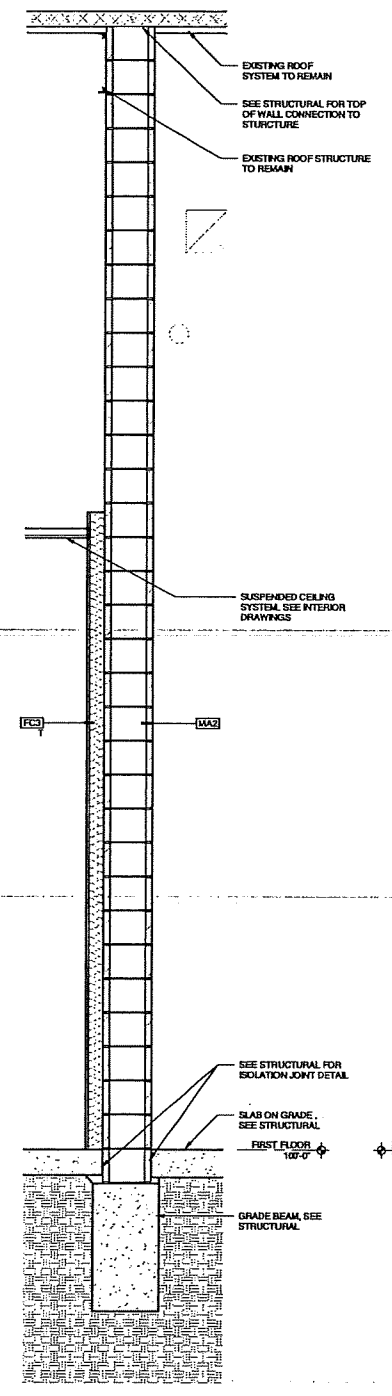
5 WALL SECTION
 3/4" = 1'-0"



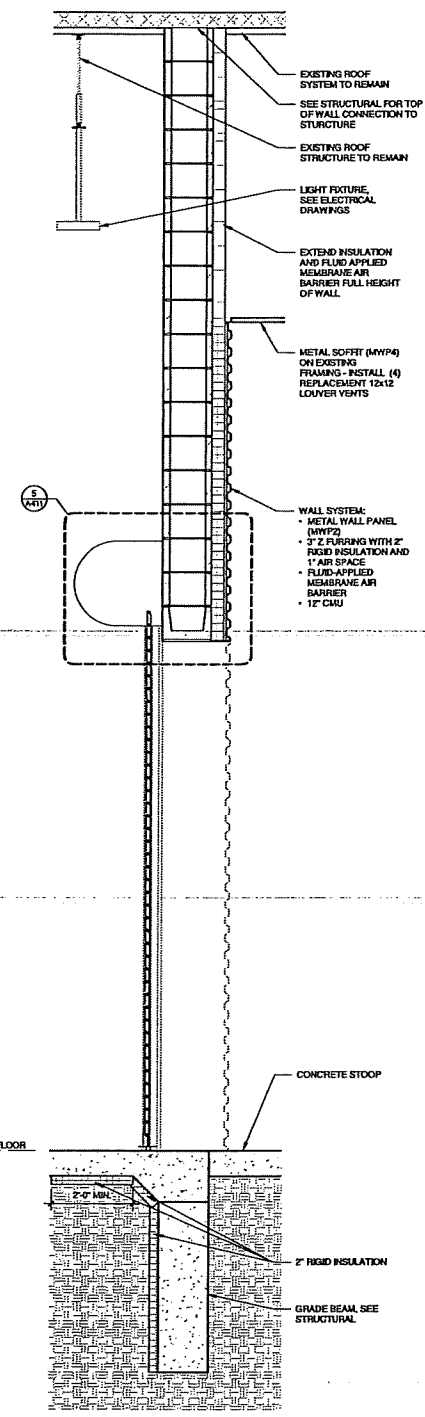
4 WALL SECTION
 3/4" = 1'-0"



3 WALL SECTION
 3/4" = 1'-0"



2 WALL SECTION
 3/4" = 1'-0"



1 WALL SECTION
 3/4" = 1'-0"

01/18/2021 8:10:38 PM C:\Users\lucan\OneDrive\Documents\A-312-Addm_10277.mxd.rvt



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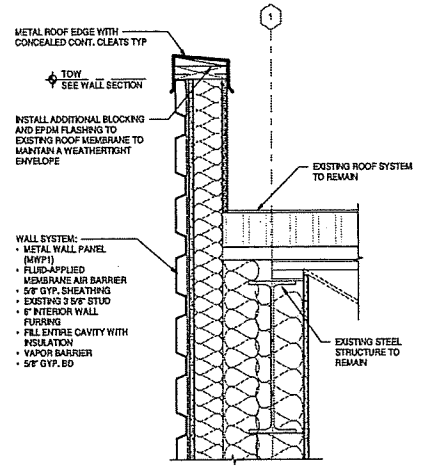
FILED
 04/06/21 BID SET
 C 05/02/21 ADDENDUM #3

CONTRACT NO: 8081
 DRAWING NO: 4523300-100996.03
 DATE: APRIL 8, 2021
 DESIGNED BY: SDX
 DRAWN BY: NJD, DJM
 CHECKED BY: RCL, REK
 PROJECT SCALE DRAWINGS

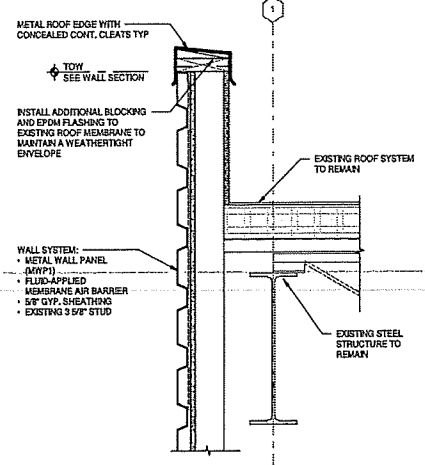
SHEET CONTENTS
 DETAILS

SHEET NO:

Addendum 3



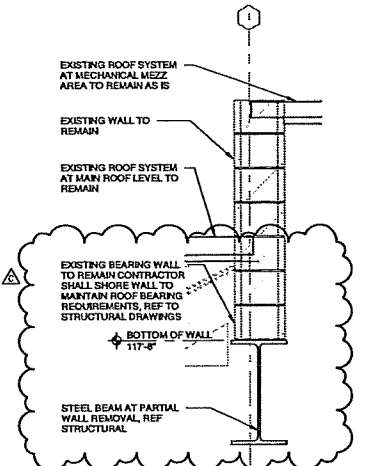
18 PARAPET DETAIL
 1 1/2" = 1'-0"



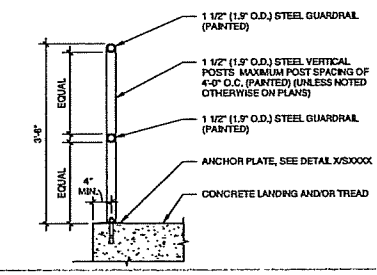
19 PARAPET DETAIL
 1 1/2" = 1'-0"



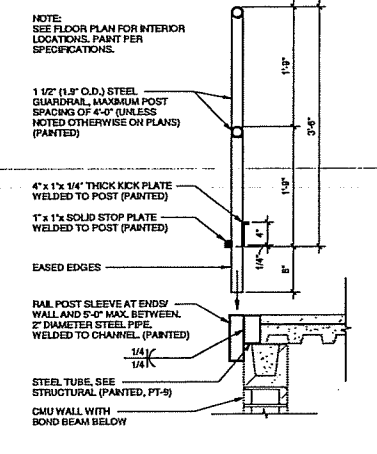
20 PARAPET DETAIL
 1 1/2" = 1'-0"



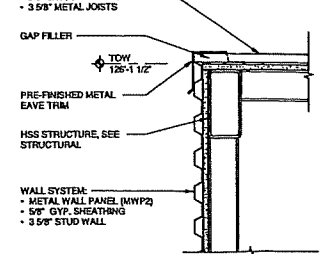
15 PARTIAL WALL SECTION
 3/4" = 1'-0"



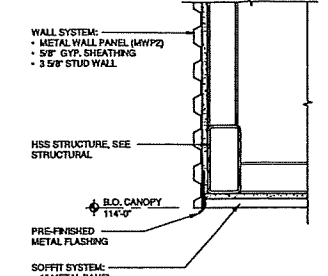
16 GUARDRAIL SECTION - 2 RAIL
 3/4" = 1'-0"



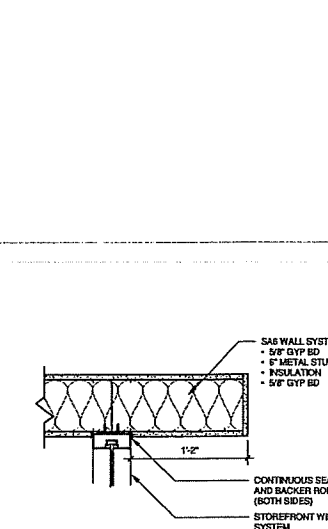
17 REMOVABLE RAILING
 1" = 1'-0"



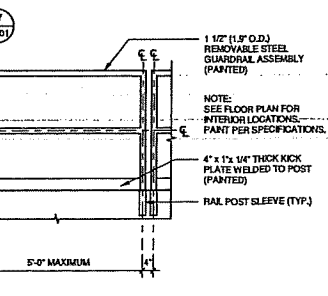
10 OVERHANG ON EXISTING WALL DETAIL
 1 1/2" = 1'-0"



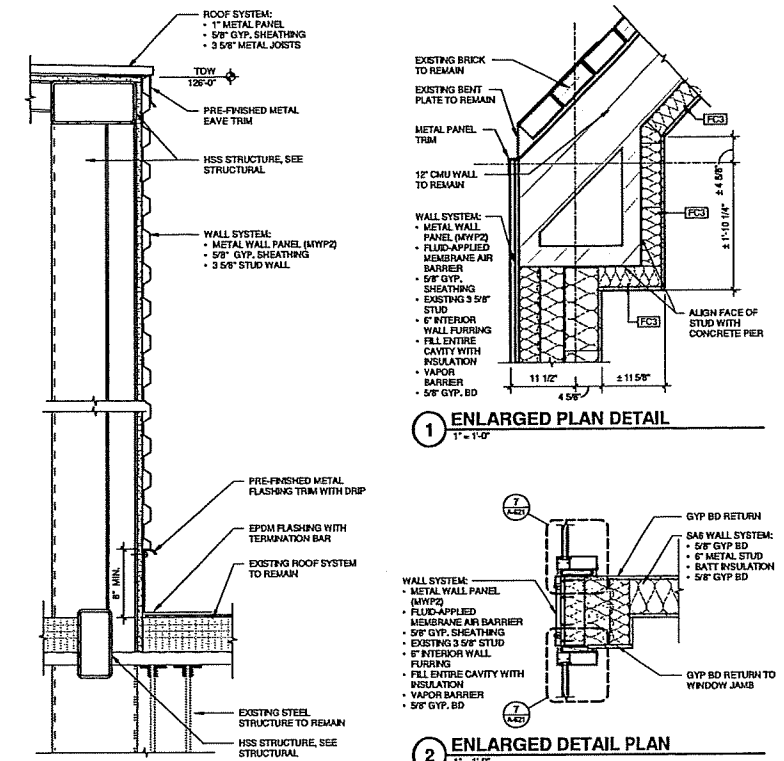
11 OVERHANG ON EXISTING WALL DETAIL
 1 1/2" = 1'-0"



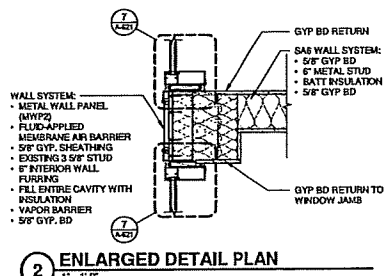
13 ENLARGED DETAIL PLAN
 1 1/2" = 1'-0"



14 REMOVABLE GUARDRAIL ELEVATION
 1/2" = 1'-0"

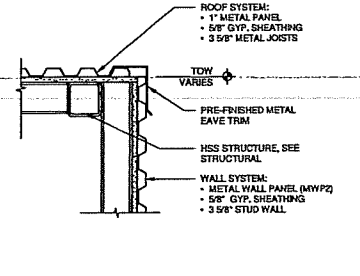


1 ENLARGED PLAN DETAIL
 1" = 1'-0"

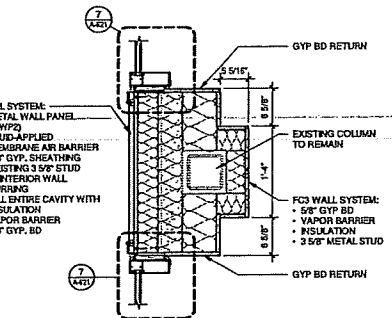


2 ENLARGED DETAIL PLAN
 1" = 1'-0"

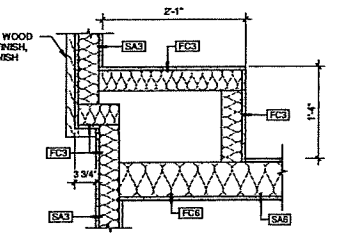
6 OVERHANG ON EXISTING WALL DETAIL
 1 1/2" = 1'-0"



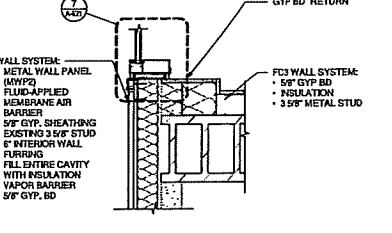
7 OVERHANG ON EXISTING WALL DETAIL
 1 1/2" = 1'-0"



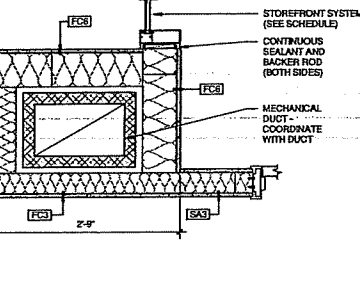
3 ENLARGED DETAIL PLAN
 1" = 1'-0"



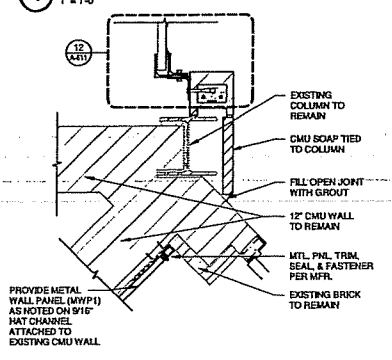
8 ENLARGED DETAIL PLAN
 1" = 1'-0"



4 ENLARGED DETAIL PLAN
 1" = 1'-0"



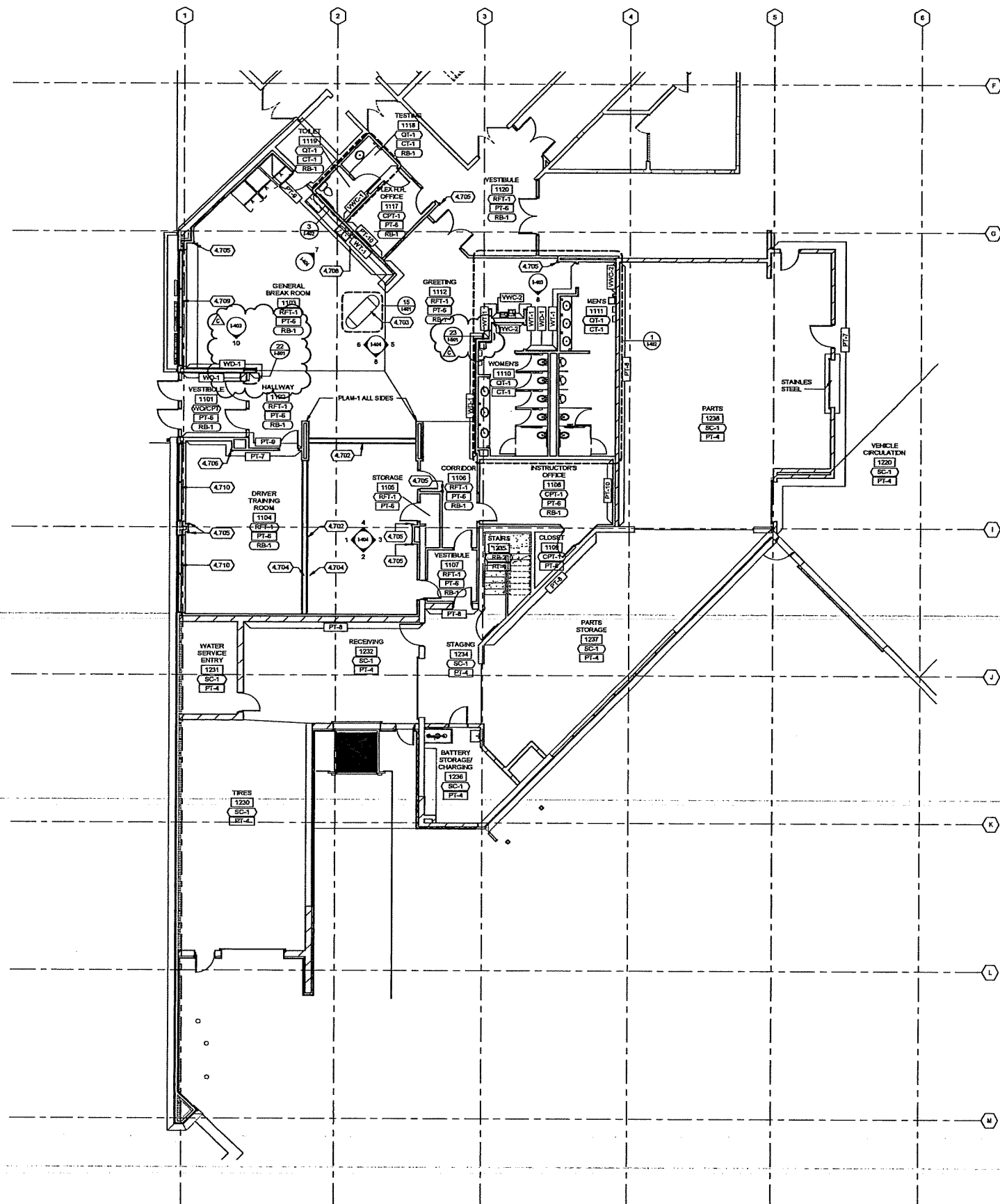
9 ENLARGED DETAIL PLAN
 1" = 1'-0"



5 ENLARGED DETAIL PLAN
 1" = 1'-0"

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Addendum 3



ROOM FINISH GENERAL NOTES:

1. REFER TO FINISH SCHEDULE, SHEET H01 FOR MATERIAL SELECTION AND COLOR.
2. REFER TO SHEET H01 FOR "INTERIORS FINISH" ABBREVIATIONS.
3. REFER TO ROOM FINISH SCHEDULE, SHEET H01 FOR ALL ROOM FINISHES NOT NOTED ON PLAN.
4. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR IN CLOSED POSITION U.A.O. REFER TO SHEET L-01 FOR FLOORING PATTERN PLAN AND FLOORING TRANSITIONS. REFER TO SHEET H-01 FOR TYPICAL TRANSITION DETAILS.
5. ALL METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL SURFACE, U.A.O.
6. ALL SHOP PRIMED ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
7. ALL PRECAST CEILINGS SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
8. ALL CONCRETE FLOORS NOT TO RECEIVE ADDITIONAL FINISH SHALL BE SEALED, U.A.O.

KEYED NOTES

- 4.702 EXPOSED SIDES OF BULKHEADS AND EXPOSED END OF HEADER TO BE PLAM-1, SEE SHEET 4A-312 FOR OPERABLE VERTICAL PARTITION DETAIL.
- 4.703 CUSTOM MOBILE TRASH CASEWORK - SEE H-01 FOR MORE INFORMATION.
- 4.704 SEE S.M. ELEVATION 40-404 FOR VERTICAL OPERABLE PARTITION PANEL FINISHES.
- 4.705 CS-1, REFER TO FINISH SCHEDULE, SHEET H-01, FOR MATERIAL SELECTION AND COLOR.
- 4.706 CS-2, REFER TO FINISH SCHEDULE, SHEET H-01, FOR MATERIAL SELECTION AND COLOR.
- 4.708 2" GRONMET AT EACH ROUGH IN LOCATION.
- 4.709 MANUAL DOUBLE ROLLER WSKD-1
- 4.710 POWERED DOUBLE ROLLER WSKD-1 AND WSKD-2

Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

DESTREE
Architecture & Design



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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

DATE: 04/06/21 BID SET
C: 05/20/21 ADDENDUM #0

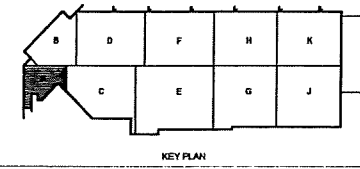
CONTRACT NO: 8561
 BIDDING NO: 4553500-19089613
 DATE: APRIL 8, 2021
 PREPARED BY: SZK
 DRAWN BY: NLE, DJM
 CHECKED BY: RCL, REK
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 FIRST FLOOR FINISH PLAN - AREA A

SHEET NO:

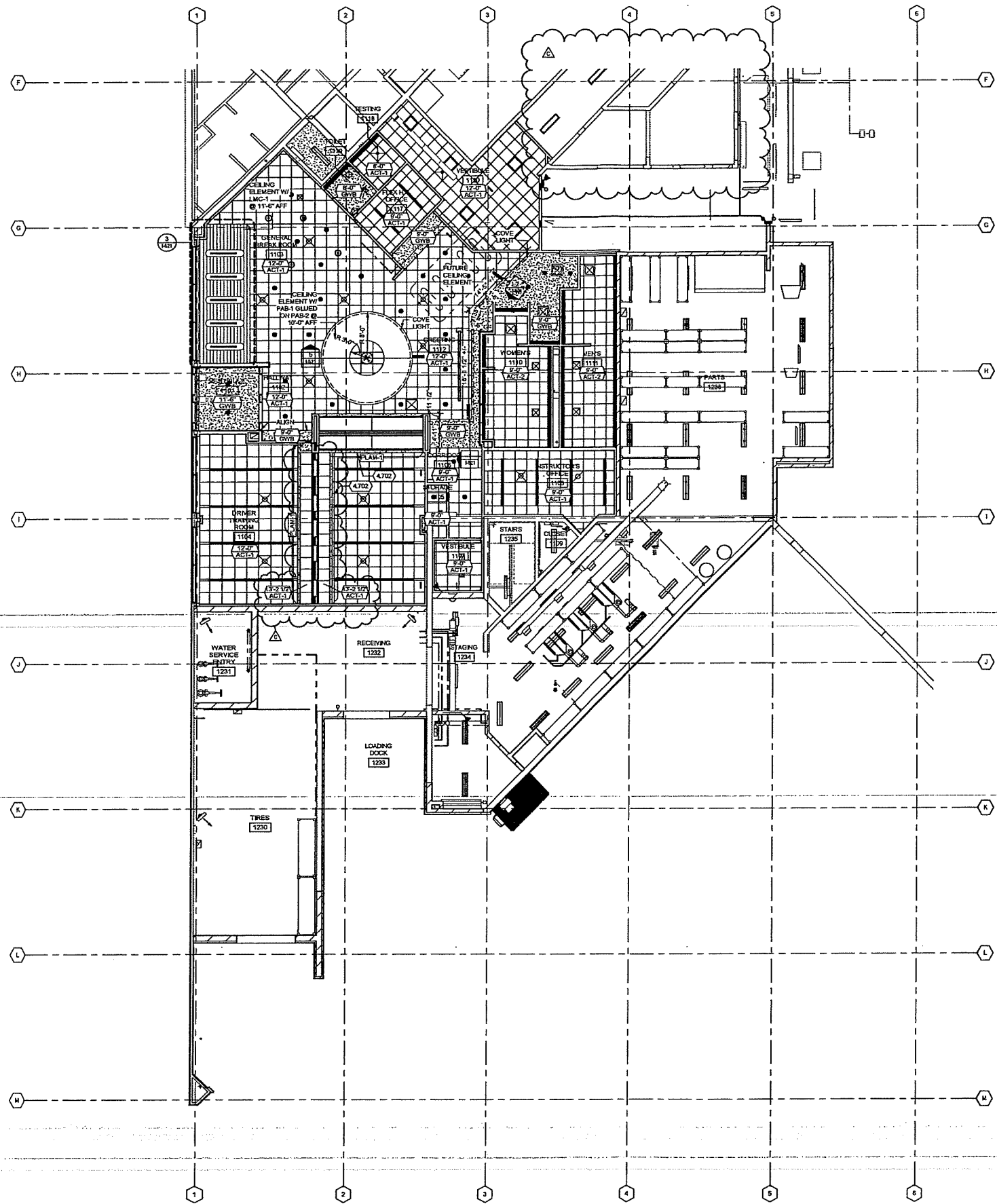
I-101A

1 FIRST FLOOR FINISH PLAN - AREA A
1/8" = 1'-0"



KEY PLAN

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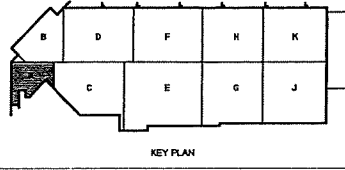
- CEILING PLAN GENERAL NOTES:**
1. REFLECTED CEILING PLAN IS FOR LAYOUT PURPOSES ONLY, COORDINATE FINAL LOCATION WITH MECHANICAL LOCATIONS.
 2. ELECTRICIAN TO PROVIDE ALL REQUIRED OUTLETS.
 3. SEE ROOM FINISH SCHEDULE ON 1401 FOR FLOOR, WALL AND CEILING FINISHES AND ROOM HEIGHTS.
 4. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.
 5. ALL RECESSED LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS, ETC. SHALL BE CENTERED IN THE TILES UNLESS NOTED OTHERWISE.
 6. CENTER ALL CEILING GRIDS IN SPACE UNLESS NOTED OTHERWISE.
 7. ALL METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL OR CEILING SURFACE.
 8. REFER TO SHEET 1401 FOR CEILING PAINT COLOR.
 9. REFER TO ELECTRICAL FOR LIGHT FIXTURE LEGEND.
 10. REFER TO SHEET 1421 FOR REFLECTED CEILING DETAILS.

KEYED NOTES

4.702 EXPOSED SIDES OF BULKHEADS AND EXPOSED END OF HEADER TO BE PLAM-1, SEE SHEET 4/A-312 FOR OPERABLE VERTICAL PARTITION DETAIL.

- CEILING PLAN LEGEND:** SEE ELECTRICAL FOR LIGHT FIXTURE LEGEND
- 2 x 2 SUSPENDED CEILING GRID
 - GYPSON BOARD CEILING
- CEILING TYPE TAG**
- ELEVATION ABOVE FINISHED FLOOR
 - CEILING TYPE

1 FIRST FLOOR REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"



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Mead & Hunt, Inc.
2440 Deming Way
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DRIVER FACILITY IMPROVEMENTS**
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

ISSUED:
04/05/21 BID SET
C 05/26/21 ADDENDUM #3

CONTRACT NO: 0961
WHA NO: 4603500-100896.03
DATE: APRIL 8, 2021
DESIGNED BY: SZK
DRAWN BY: NLD, DJM
CHECKED BY: RCL, REK
1/8" = 1'-0" SCALE DRAWINGS

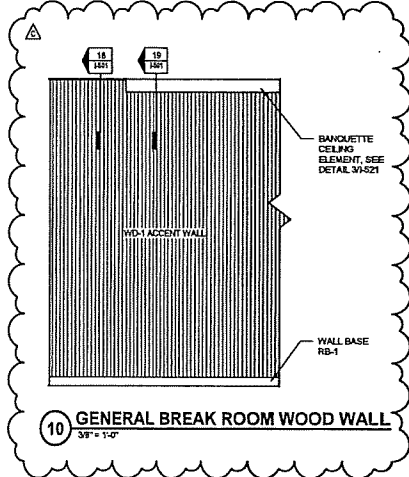
SHEET CONTENTS
FIRST FLOOR
REFLECTED CEILING
PLAN - AREA A

SHEET NO:
I-121A

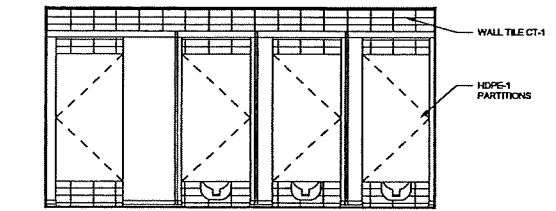
ADDENDUM 3

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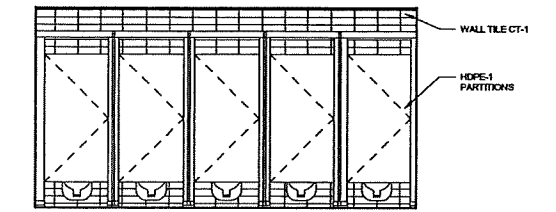
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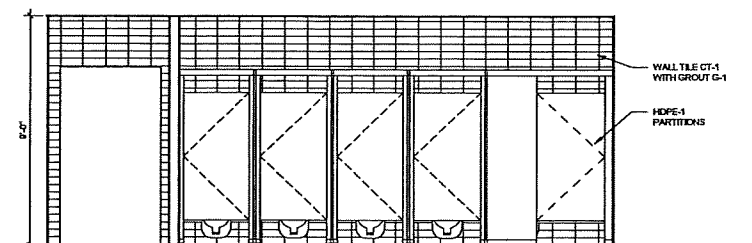
10 GENERAL BREAK ROOM WOOD WALL
 3'-0" x 1'-0"



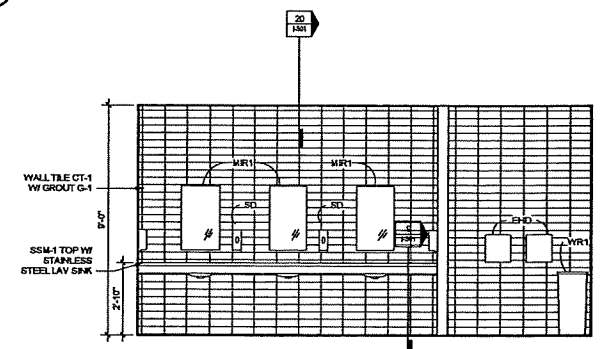
5 MEN'S MAINTENANCE RESTROOM (WEST WALL)
 3'-0" x 1'-0"



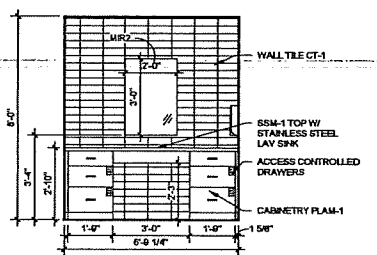
6 WOMEN'S MAINTENANCE RESTROOM (EAST WALL)
 3'-0" x 1'-0"



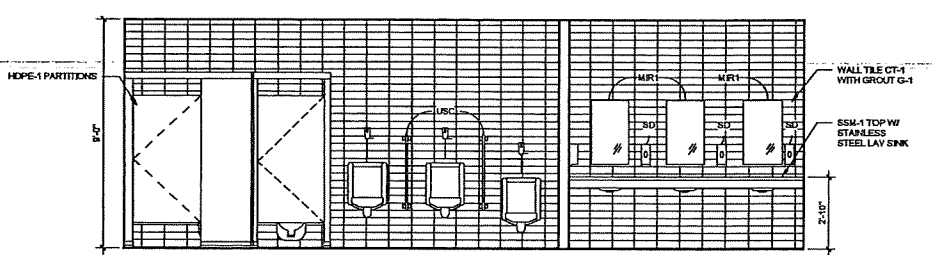
1 WOMEN'S RESTROOM (EAST WALL)
 3'-0" x 1'-0"



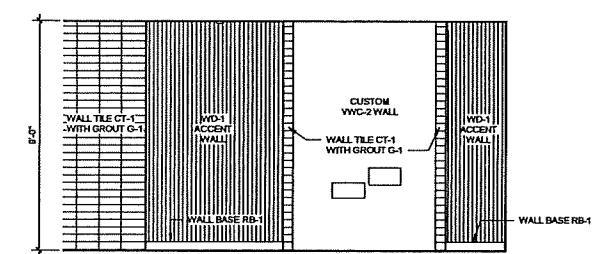
2 WOMEN'S RESTROOM (WEST WALL)
 3'-0" x 1'-0"



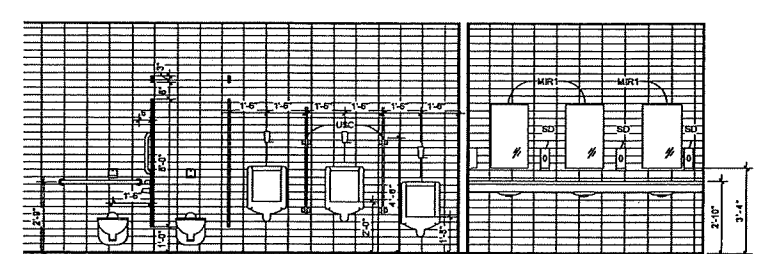
7 TESTING ROOM CASEWORK
 3'-0" x 1'-0"



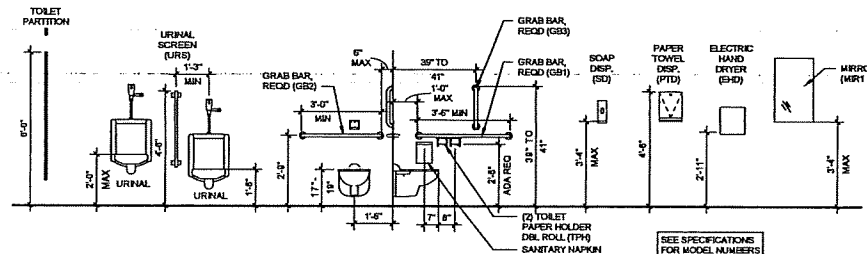
3 MEN'S RESTROOM (WEST WALL)
 3'-0" x 1'-0"



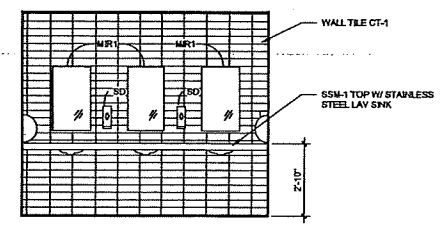
8 DRINKING FOUNTAIN AREA
 3'-0" x 1'-0"



9 MEN'S RESTROOM (WEST WALL) WITH MOUNTING HEIGHTS
 3'-0" x 1'-0"



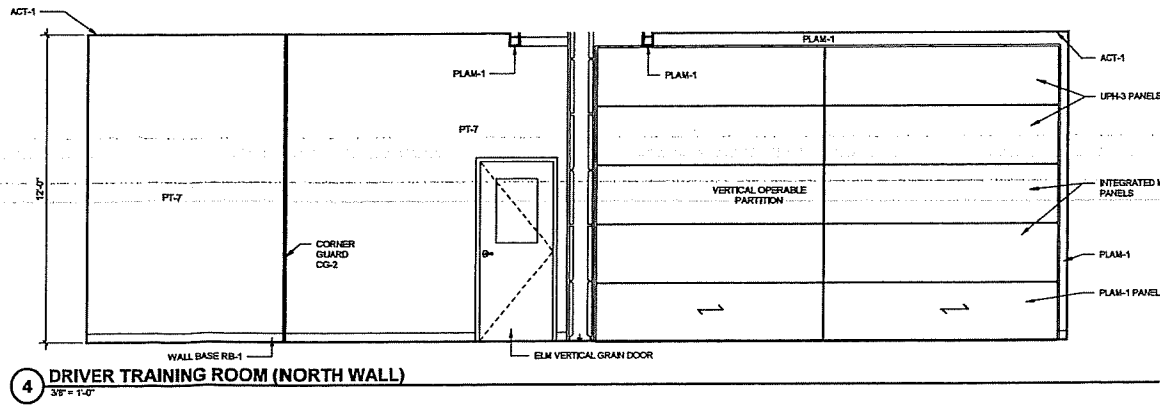
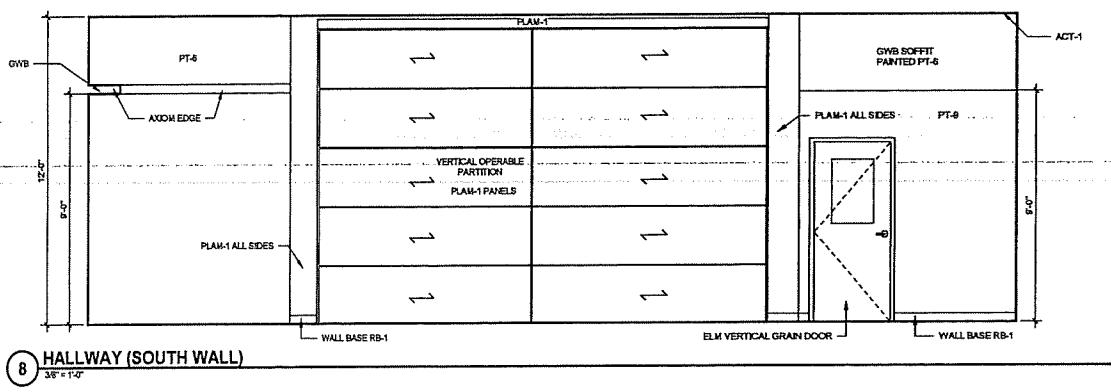
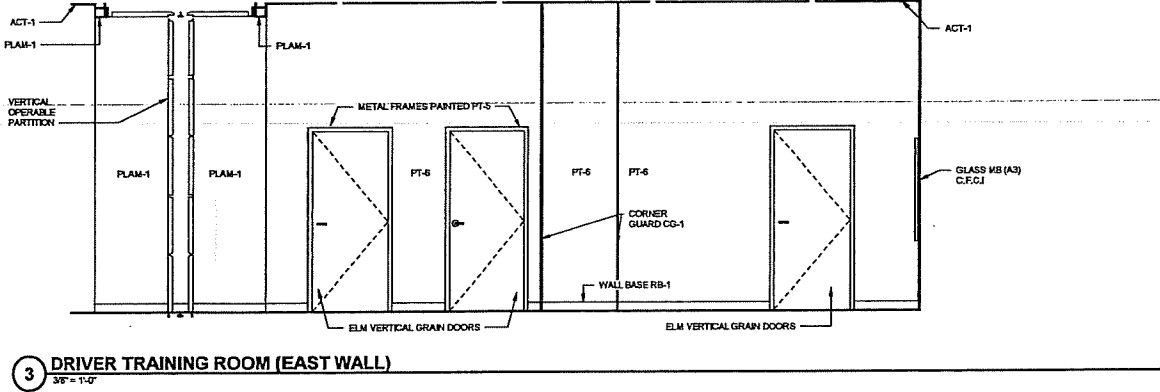
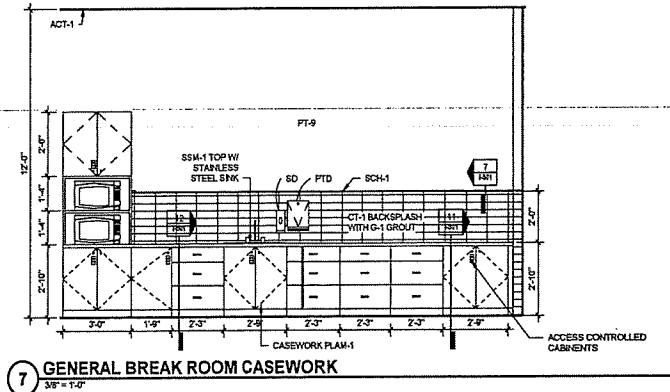
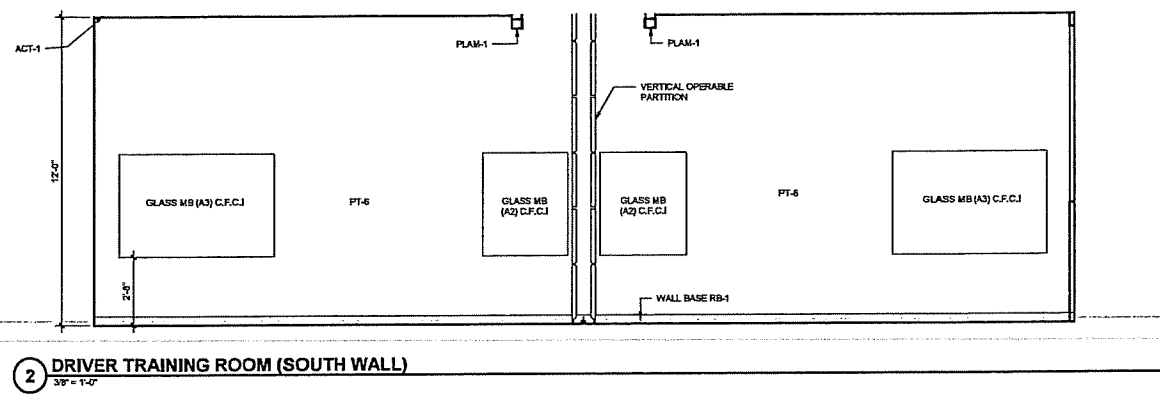
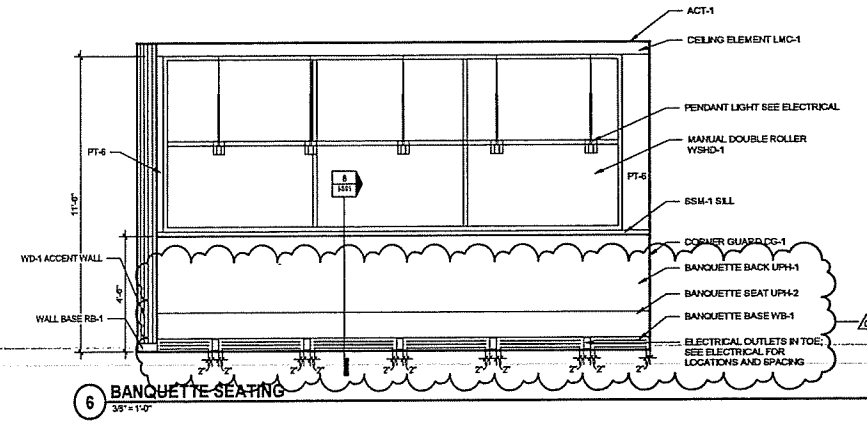
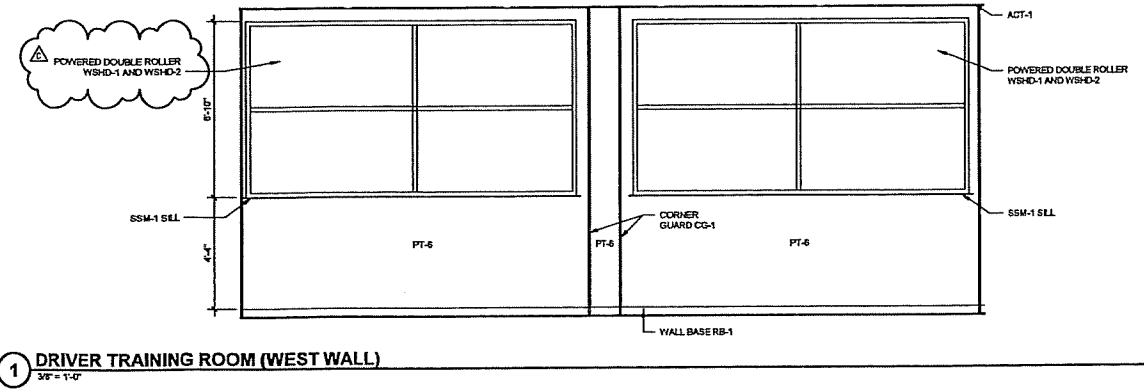
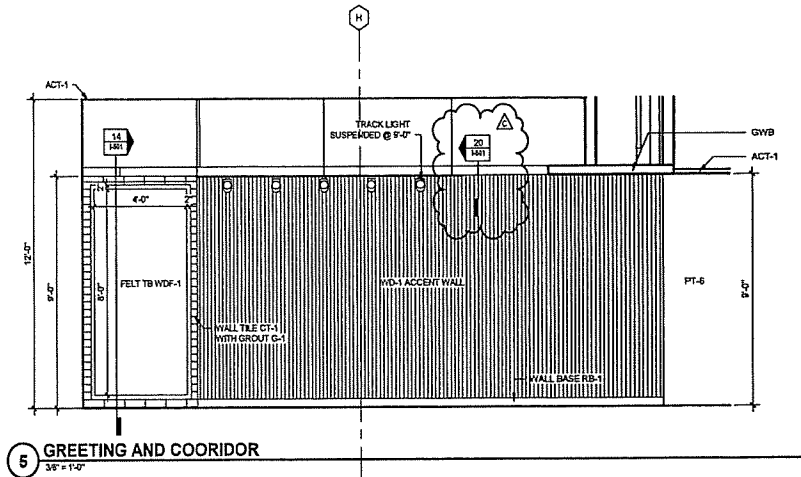
10 ACCESSORY MOUNTING HEIGHTS
 3'-0" x 1'-0"



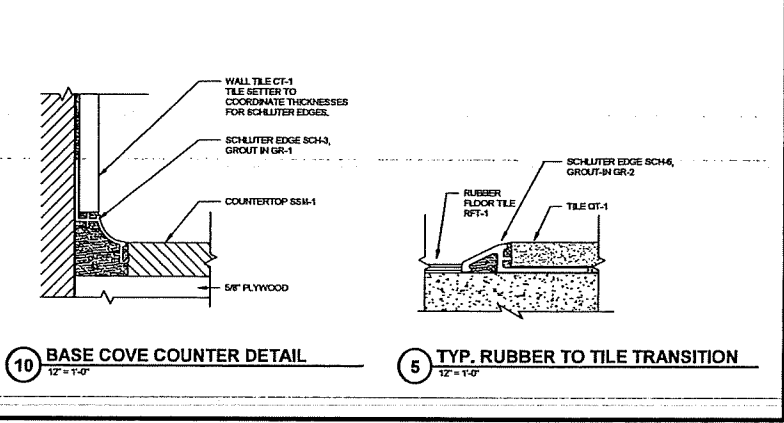
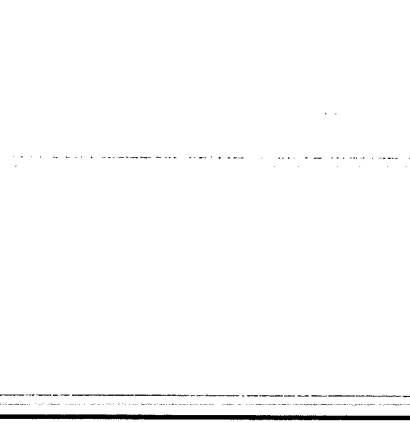
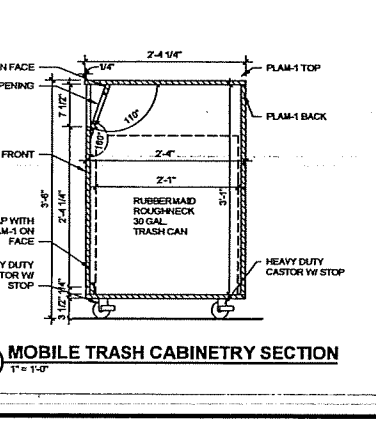
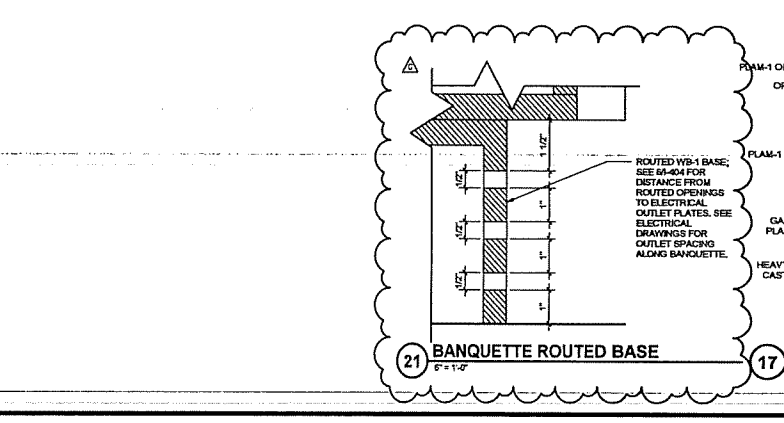
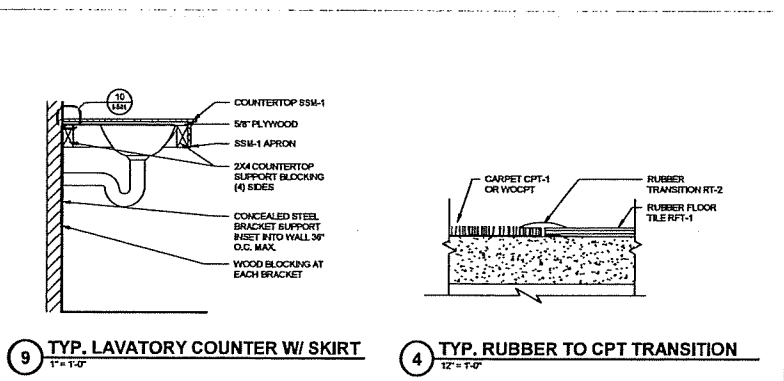
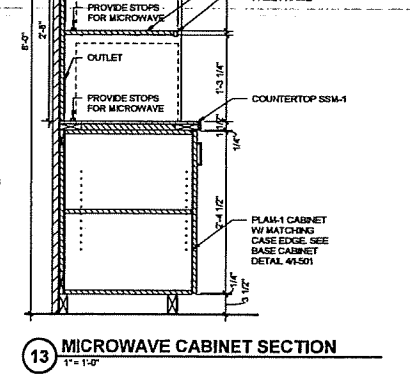
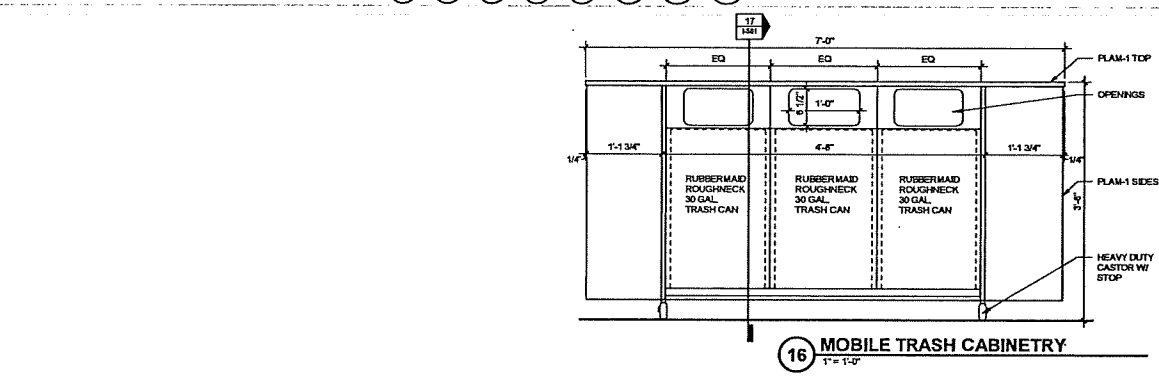
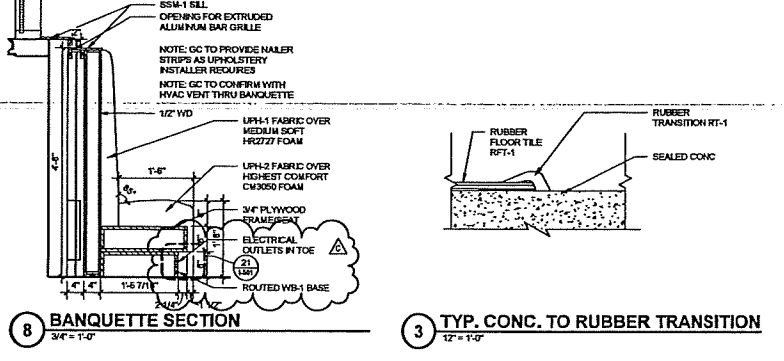
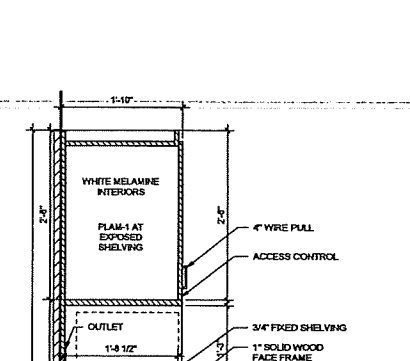
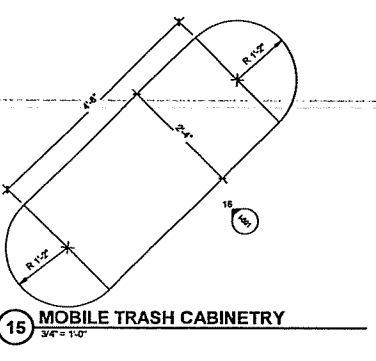
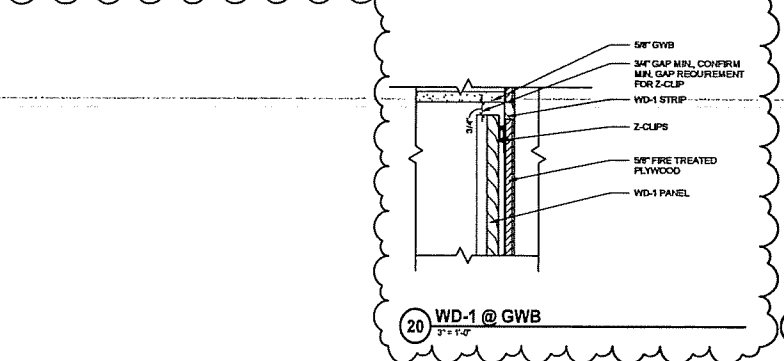
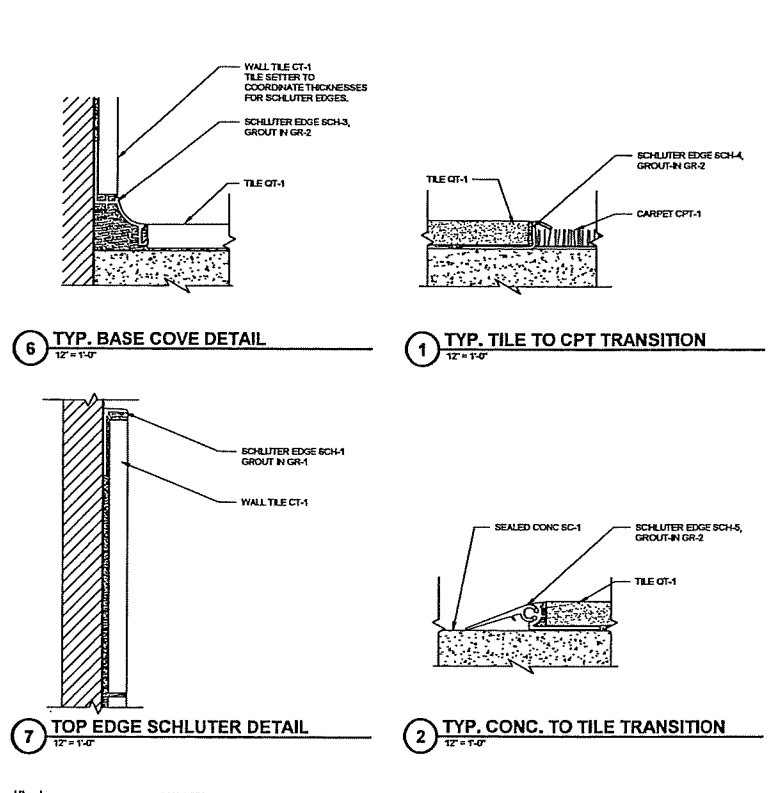
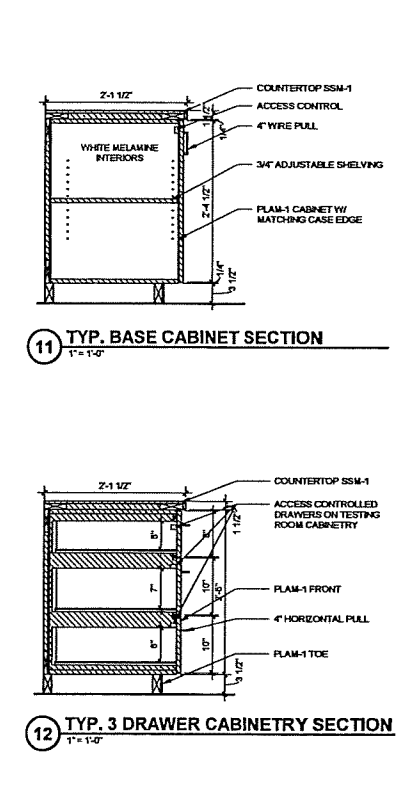
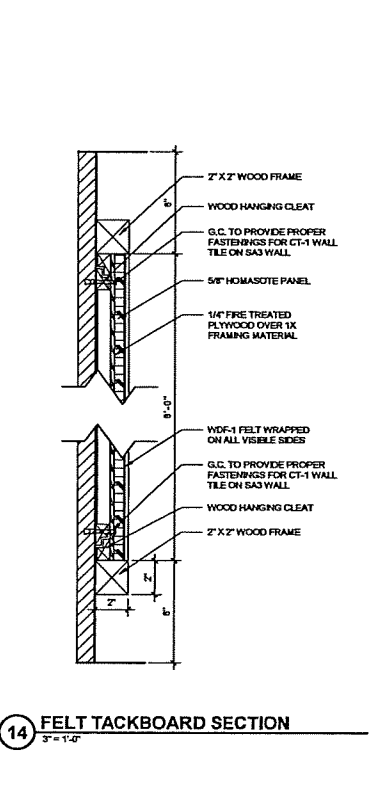
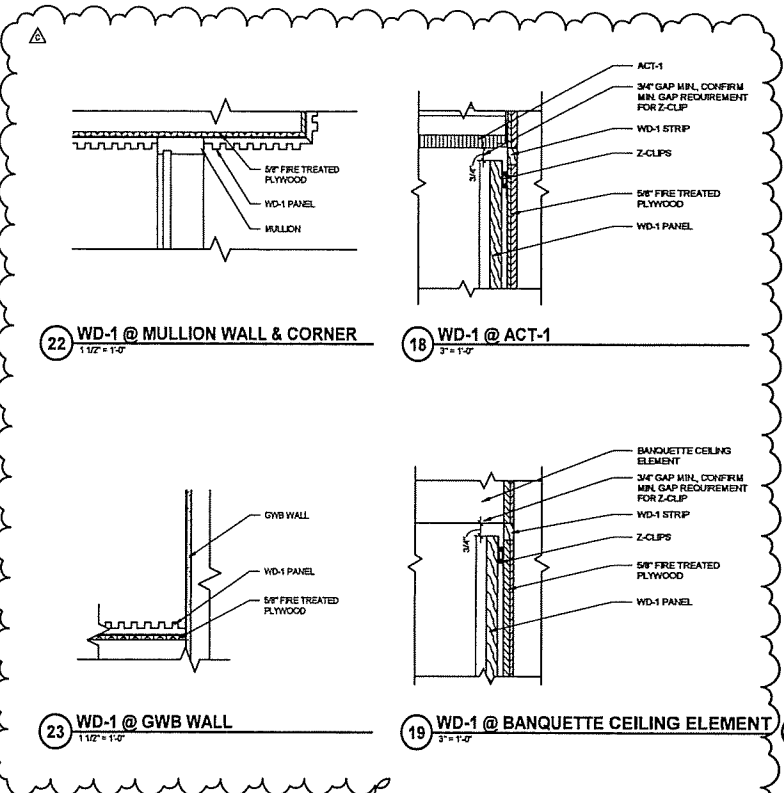
4 MEN'S MAINTENANCE RESTROOM (EAST WALL)
 3'-0" x 1'-0"

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APPENDIX 3

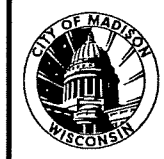


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Mead & Hunt
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Madison, WI 53562
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DESTREE
Architecture & Design



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/02/21 BID SET
05/20/21 ADDENDUM 03

CONTRACT NO: 8581
SHEET NO: 4000000-180666.03
DATE: APRIL 8, 2021
DESIGNED BY: EDK
DRAWN BY: HLD, DJM
CHECKED BY: RCL, REK
DO NOT SCALE DIMENSIONS
SHEET CONTENTS:
INTERIOR DETAILS

SHEET NO:
I-501

Addendum 3

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GENERAL FINISH NOTES:

- 1. ALL INTERIOR HM DOOR FRAME FINISHES AND METAL DOORS TO BE PAINTED PT-5. UNDO IN DOOR SCHEDULE.
2. ALL PLAM-1 TO RUN IN THE VERTICAL DIRECTION UNLESS NOTED OTHERWISE.
3. SEE FINISH PLAN I-101A, ELEVATION 40-40 (TYPICAL), AND ELEVATION M-404 FOR VERTICAL PARTITION FINISHES.
4. ALL CORNER GUARDS TO MATCH WALL PAINT COLOR.
5. WWC-2 TO BE OWNER SUPPLIED, OWNER INSTALLED.
6. STAIR NOSINGS WITH YELLOW VISUALLY IMPAIRED STRIPS AT THE TOP OF STAIR FLIGHTS. ALL OTHER STAIRS TO HAVE STAIR TREADS WITH YELLOW VISUALLY IMPAIRED STRIPS, STAIR TREADS, RISERS, AND LANDINGS TO BE RFT-2.

INTERIORS FINISH ABBREVIATIONS:

- ACT = ACOUSTICAL CEILING TILE
APT = ALUMINUM PERIMETER TRIM
CS = CORNER GUARD
CONC = CONCRETE
CMU = CONCRETE MASONRY UNIT
CPT = CARPET
CT = CERAMIC TILE
EXP = EXPOSED
GR = GROUT
GWB = GYPSUM WALL BOARD
LUC = LINEAR METAL CEILING
MB = MARKER BOARD
PAB = POLYESTER ACOUSTICAL BOARD
PLAM = PLASTIC LAMINATE
PMTL = PERFORATED METAL
PT = LATEX PAINT
QT = QUARRY TILE
RB = RUBBER BASE
RFT = RUBBER FLOOR TILE
RT = RUBBER TRANSITION
SC = SEALED CONCRETE
SCH = SCHLUTER
SSW = SOLID SURFACE MATERIAL
TS = TACKBOARD
UPH = UPHOLSTERY
WVC = WHL WALL COVERING
WD = WOOD
WDF = WOOD DESIGN FELT
WOCPT = WALK OFF CARPET

ROOM FINISH SCHEDULE table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WALLS (NORTH, EAST, SOUTH, WEST), CEILING (MTL, HEIGHT), REMARKS. Rows include 1101 VESTIBULE, 1102 HALLWAY, 1103 GENERAL BREAK ROOM, etc.

ROOM FINISH SCHEDULE 3A ALTERNATE NO. 1 table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WALLS (NORTH, EAST, SOUTH, WEST), CEILING (MTL, HEIGHT), REMARKS. Rows include 1301 VEST, 1302 MEN'S, 1303 WOMEN'S, etc.

INTERIOR FINISHES SCHEDULE table with columns: FINISH NUMBER, FINISH DESCRIPTION, MANUFACTURER, MODEL NUMBER, STYLE, COLOR, SIZE, REMARKS. Rows include ACT-1 ACOUSTIC CEILING TILE - TYPE 1, APT-1 ALUMINUM PERIMETER TRIM - TYPE 1, etc.

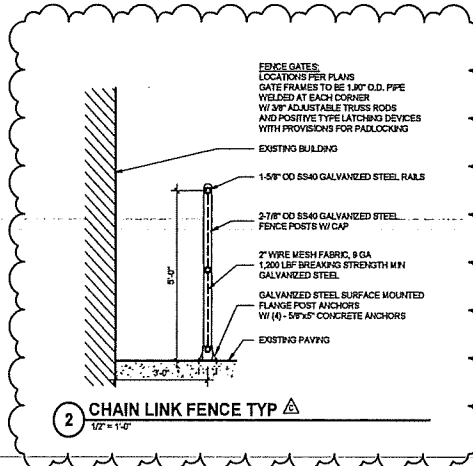
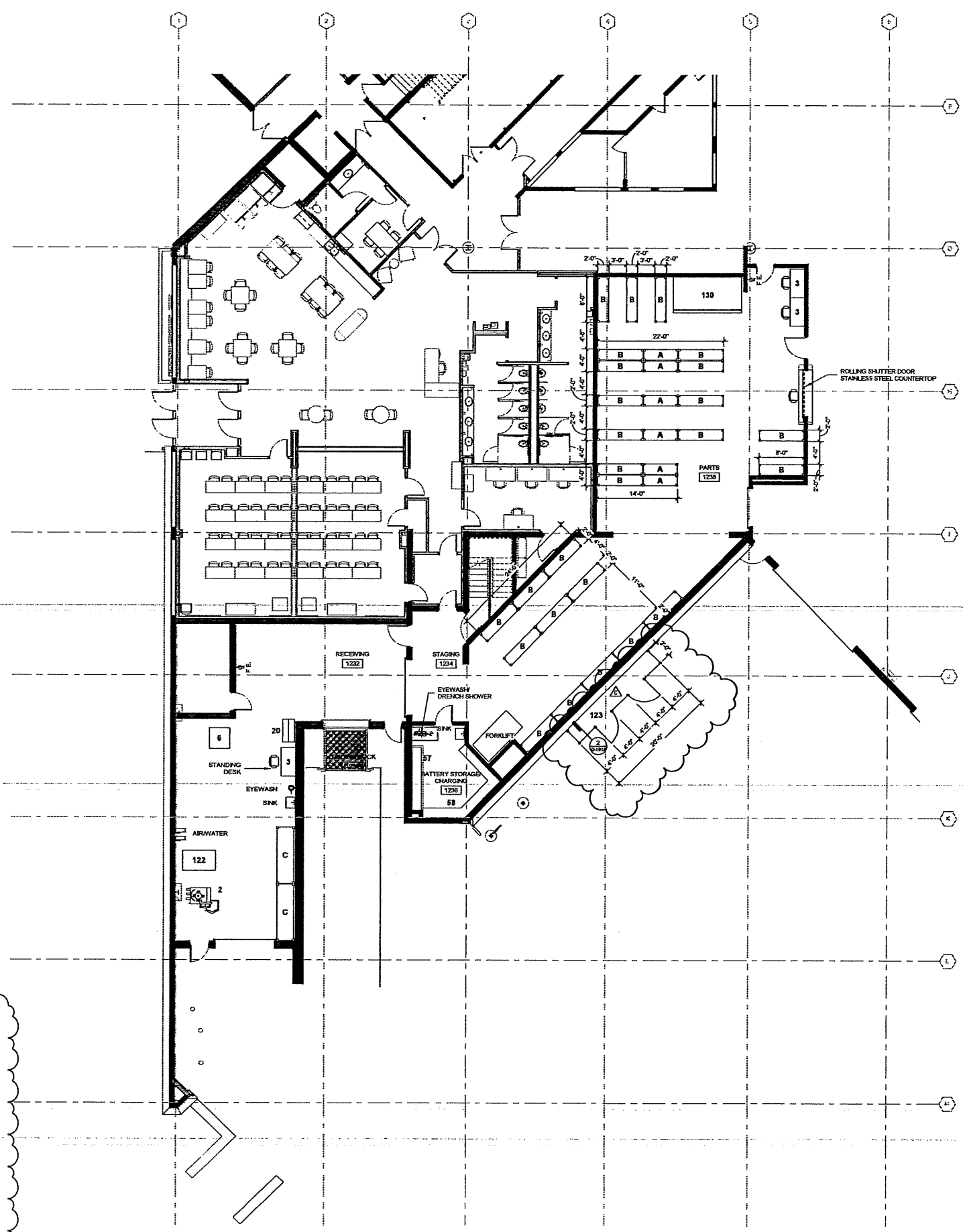
CONTRACT NO: 6581
ISSUE NO: 4303500-100896.03
DATE: APRIL 8, 2021
DESIGNED BY: SDY
DRAWN BY: NAD, DJM
CHECKED BY: RCL, REK
DESIGN SCALE: DRAWINGS
SHEET CONTENTS: SCHEDULES



**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

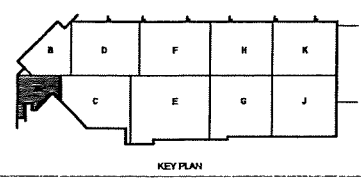
04/08/21 BID SET
 B 05/13/21 ADDENDUM #2
 C 05/23/21 ADDENDUM #3

PROJECT NO: 2091
 DRAWING: 403500-100856.03
 DATE: APRIL 8, 2021
 DESIGNED BY: JFW
 DRAWN BY: RES
 CHECKED BY: Checker
 DATE: 02/07/2021
FIRST FLOOR PLAN - AREA A
Q-101A



EQUIPMENT SCHEDULE

Mark	Type	Count	Owner Provided	Contractor Installed	GC Provided	GC Installed
2	Rem Clamp Tire Machine	1	X	X		
3	Desk 55"W x 30"D	3	X	X		
6	Tire Cage	1	X	X		
8	2-Tier Locker - 12"x15"x78"	6				
20	Tool Cabinet	30	X	X		
21	Work Bench 6'-0"W x 3'-0"D x 3'-0"H	18	X	X		
34	Garment Washer SW-37	9				
35	Oil King 25 gal Used-Oil Receiver	11				
45	Tool Cabinet	1	X	X		
57	Battery Charging Bench	1	X	X		
58	Battery Charging Bench	1	X	X		
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
64	Liquid Oil Tank	1	X	X		X
69	Bulk Fluid Storage Tank #2	1	X	X		X
71	Dumping Hopper	1	X	X		X
82	Baler	1	X	X		X
86	Oil Filter Crusher	1	X	X		X
101	Bulk Fluid Storage Tank #3	1	X	X		X
118	Rack Shelving - 3D x 10W x 8H	3	X	X		X
119	Rack Shelving - 3D x 10W x 8H	1	X	X		X
119	Rack Shelving - 3D x 10W x 8H	2	X	X		X
122	Tire Machine	1	X	X		X
123	Flammable Tank Storage	1	X	X		X
127	Drill Press	1	X	X		X
128	Horizontal Band Saw	1	X	X		X
130	Tire Carcass	1			X	X
130	Tire Carcass	1			X	X
131-13	ECCO-40-10	1			X	X
131-14	ECCO-40-10	1			X	X
131-15	ECCO-40-10	1			X	X
131-16	ECCO-40-10	1			X	X
131-17	ECCO-40-10	1			X	X
131-18	ECCO-40-10	1			X	X
131-19	ECCO-40-10	1			X	X
131-20	ECCO-40-10	1			X	X
131-21	ECCO-40-10	1			X	X
132-20	ECCO-40-11	1			X	X
133-13	ECCO-60 Control Console	1			X	X
133-14	ECCO-60 Control Console	1			X	X
133-15	ECCO-60 Control Console	1			X	X
133-16	ECCO-60 Control Console	1			X	X
133-17	ECCO-60 Control Console	1			X	X
133-18	ECCO-60 Control Console	1			X	X
133-19	ECCO-60 Control Console	1			X	X
133-20	ECCO-60 Control Console	1			X	X
133-21	ECCO-60 Control Console	1			X	X
133-22	ECCO-60 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 6W x 8H	6				
B	Rack Shelving - 2D x 6W x 8H	26				
C	Rack Shelving - 3D x 10W x 8H	5				



TRUE PLAN NORTH NORTH
1/8" First Floor Equipment Plan - Area A
 1/8" = 1'-0"

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ADDENDUM 3

LUMINAIRE SCHEDULE

NOTE: SEE SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

ABBREVIATIONS: GWB = GYPSUM WALL BOARD P = PENDANT R = RECESSED V = VARIES
 ES = EXPOSED STRUCTURE PLAS = PLASTER S = SURFACE W = WALL MOUNTED
 LG = LAY-IN GRID PL = POLE MOUNTED UNV = UNIVERSAL VOLTAGE



DES.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	LAMP DATA	VOLTAGE	BALLAST/DRIVER	MOUNT	CEILING TYPE	FIXTURE DEPTH	LED SYSTEM INPUT WATTAGE	LED DELIVERED LUMENS	OPTIONS/ACCESSORIES	ACCEPTABLE MANUFACTURERS	KEYED NOTE
A1	LITHONIA	EPANL SERIES	2' x 2' LED EDGE-LIT FLAT PANEL	4000K LED	277V	D	R	LG	2"	29.2	3333		COLUMBIA CFP, ELITE LIGHTING 100 ASTRAL EDGE	
D1	GOTHAM	EVO4 SERIES	4" LED ROUND RECESSED DOWNLIGHT WITH WHITE REFLECTOR AND FLANGE, MEDIUM DISTRIBUTION, AND SEMI-SPECULAR FINISH	4000K LED	277V	D	R	LG	6 1/2"	13.7W	1527		PORTFOLIO, LITESTRY USA, ELITE LIGHTING	
DK1	HUBBELL	DOCKSTAR SERIES	LED DOCK LIGHT, WITH 32 DEGREE FLOOD OPTICS AND POLYCARBONATE LENS, IN-LINE ROCKER SWITCH, 40" DOUBLE STRUT SWING ARM WITH STANDARD 6" CORD AND PLUG	5000K LED	120V	D	W	-	-	21W	1506		PHOENIX ELITE LIGHTING	
J1	CONTECH	CTL SERIES	1/2" LED TRACK LIGHT, WHITE, WITH SOLITE TEMPERED GLASS LENSES, ORDER WITH 1/2" CONTECH LT WHITE TRACK WITH OUTLET BOX COVER PLATE LAM-4 AND AIRCRAFT CABLE	4000K LED	120V	D	R	LG	-	19W	2213		JUNO, BRUCK, ELITE LIGHTING TIMES SQUARE, LSI	
K21	CREE	LS SERIES	4" LED WALL BRACKET WITH LOW GLARE ACRYLIC LENS AND WHITE FINISH	4000K LED	277V	D	W	-	3"	40W	4250		METALLIX, COLUMBIA LITHONIA, ELITE LIGHTING	
L1	AXIS	BEAM LED SERIES	4" LED NARROW RECESSED LINEAR FIXTURE WITH WHITE POWDER COAT EXTRUDED ALUMINUM HOUSING AND FORSTED FLUSH LENS, 90 CRI	4000K LED	277V	D	R	LG	3-7/8"	5 W/FT	400 LM/FT		PINNACLE, LUMENWERK, CORONET FINELITE, ELITE LIGHTING	
L2	AXIS	BEAM LED SERIES	4" LED RECESSED PERIMETER FIXTURE WITH EXTRUDED ALUMINUM HOUSING, 2" REGRESS, TELESCOPIC END, SEE PLANS FOR EXACT LENGTH REQUIRED.	4000K LED	277V	D	R	LG	6"	5 W/FT	400 LM/FT		PINNACLE, LUMENWERK, CORONET FINELITE, METALLUMEN	
L3	OMNILIGHT	CONTINUUM SERIES	FIELD CUTTABLE LED TAPELIGHT MOUNTED IN ALUMINUM CHANNEL, DIMMABLE, 90 CRI	3000K LED	24V	D	S	GWB	0.5"	1.47 W/FT	140 LM/FT		PINNACLE, LUMENWERK, CORONET FINELITE, METALLUMEN	
L4	AXIS	BEAM LED SERIES	4" LED RECESSED PERIMETER FIXTURE WITH EXTRUDED ALUMINUM HOUSING, 2" REGRESS, TELESCOPIC END, SEE PLANS FOR EXACT LENGTH REQUIRED.	4000K LED	277V	D	R	GWB	6"	5 W/FT	400 LM/FT		PINNACLE, LUMENWERK, CORONET FINELITE, METALLUMEN	
N2	LITHONIA	MSL SERIES	4" LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	S	-	3-1/4"	40W	3636		METALLIX, COLUMBIA DAYBRITE	
N3	LITHONIA	MSL SERIES	4" LED CHAIN-HUNG PENDANT INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	P	-	3-1/4"	40W	3636		METALLIX, COLUMBIA DAYBRITE	
N5	LITHONIA	MSL SERIES	8" LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	S	-	3-1/4"	58W	7273		METALLIX, COLUMBIA DAYBRITE	
N6	BARRON	VPA SERIES	4" LED SURFACE LINEAR VAPORTIGHT WITH POLYCARBONATE HOUSING FOR CORROSIVE ENVIRONMENT	4000K LED	277V	D	S	-	3.6"	40W	5200		METALLIX, COLUMBIA DAYBRITE, ELITE LIGHTING	
N7	LITHONIA	MSL SERIES	8" LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	120V	D	S	-	3-1/4"	58W	7273		METALLIX, COLUMBIA DAYBRITE	
N11	LITHONIA	FEM SERIES	4" LED PENDANT INDUSTRIAL VAPOR-TIGHT FIXTURE WITH FIBERGLASS HOUSING	4000K LED	277V	D	P	-	4-1/4"	94.3W	15160		LITHONIA, ELITE LIGHTING METALLIX, COLUMBIA	
DA1	GOTHAM	EVO6 SERIES	6" LED ROUND RECESSED DOWNLIGHT, WET LOCATION RATED, FLUSH LENSED WHITE PAINTED TRIM WITH SMOOTH CLEAR LENS	4000K LED	277V	D	R	-	7 9/16"	10W	857		PORTFOLIO, LITESTRY USA, ATLANTIC LIGHTING	
DA2	LITHONIA	D-SERIES SIZE 1	LED WALL MOUNTED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED, FORWARD THROW LIGHT DISTRIBUTION AND DARK BRONZE FINISH	4000K LED	277V	D	W	-	10"	13W	1515		MCGRW EDISON, HUBBELL, LSI PHILIP'S 122 SCOSCE SERIES	
P1	DESIGNPLAN	PLANK SERIES	4" LED LINEAR PENDANT WITH ALUMINUM BODY AND WOOD SIDE PANELS, AIRCRAFT CABLE MOUNT, 90 CRI	4000K LED	277V	D	P	LG	8"	72W	1848 UP 1866 DOWN		MODERN FORMAS, PURE EDGE NATIONAL LIGHTING COMPANY	
P2	G LIGHTING	GLOBO SERIES	34" LED ACRYLIC GLOBE INTERIOR PENDANT	4000K LED	277V	D	P	GWB	24"	42W	4912		SPI, LIGHTWAY INDUSTRIES	
P3	EUREKA	MIKA SERIES	8" LED GLOBE INTERIOR PENDANT WITH CLEAR CABLE AND 0-10V DIMMING, 90 CRI	4000K LED	277V	D	P	LG	8"	9.8W	987		ALATI HWAC, LIGHTWAY INDUSTRIES	
P4	EUREKA	MIKA SERIES	12" LED GLOBE INTERIOR PENDANT WITH CLEAR CABLE AND 0-10V DIMMING, 90 CRI	4000K LED	277V	D	P	LG	12"	9.8W	1062		ALATI HWAC, LIGHTWAY INDUSTRIES	
Q1	MODA LIGHT	SUPER NEON SERIES	LED FLEXIBLE COVE LIGHT PROVIDE ALL REQUIRED ACCESSORIES TO CREATE A COMPLETE AND OPERABLE SYSTEM AS SHOWN ON THE PLANS.	4000K LED	24V	D	S	GYP	1-1/8"	5 W/FT	100 LM/FT		LED LINEAR, HIGHT, ACCOLYTE OPTIC ARTS, TPR ENTERPRISES	
S1	JUNO	SLIMFORM SERIES	LED SURFACE MOUNT DOWNLIGHT, 11" DIAMETER, WIRE DIRECTLY TO J-BOX	4000K LED	277V	D	S	ES	3"	15W	1300		DMF LIGHTING ELITE LIGHTING	
X1	EYENLITE	RAZOR SERIES	SINGLE FACE EXIT LIGHT, DIE CAST ALUMINUM, UNIVERSAL MOUNT, RED LETTERS	LED	277V	-	UNV	-	-	-	-		LITHONIA, SURE-LITE DUAL-LITE, LIGHT ALARMS	
X2	EYENLITE	RAZOR SERIES	DOUBLE FACE EXIT LIGHT, DIE CAST ALUMINUM, UNIVERSAL MOUNT, RED LETTERS	LED	277V	-	UNV	-	-	-	-		LITHONIA, SURE-LITE DUAL-LITE, LIGHT ALARMS	

BALLAST/DRIVER CODE LISTING: (SEE SPECIFICATIONS)
 D LED DIMMABLE POWER SUPPLY (0-10V)
 E LED DIMMABLE POWER SUPPLY (TRAILING EDGE)
 F LED DIMMABLE POWER SUPPLY 1% DIMMING LUTRON HI LUME OR EQUAL
 G LED DIMMABLE POWER SUPPLY ADVANCE XITANIUM OR EQUAL

GENERAL NOTES:
 1. ONLY BALLAST SERIES IS INDICATED ON THIS SCHEDULE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. EACH FIXTURE SUBMITTAL SHALL BE PROVIDED WITH FULL BALLAST AND LAMP INFORMATION.
 2. EC SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH RESPECTIVE CEILING TYPES SCHEDULED AND/OR SUBMITTED BY THE GC PRIOR TO ORDERING OF THE LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC CEILING INFORMATION AVAILABLE AT THE TIME BIDDING DOCUMENTS WERE ISSUED AND DOES NOT REFLECT ACTUAL THICKNESS OF GYPSUM WALL BOARD OR PLASTER CEILING OR EXACT GRID TYPE SPECIFIED BY THE ARCHITECT.

KEYED NOTES:
 1. PERIMETER FIXTURE SHALL BE WALL TO WALL INSTALLATION. LUMINAIRES SHALL BE PROVIDED WITH SLIDING SLEEVE OR EXACT MEASUREMENTS SHALL BE VERIFIED IN FIELD PRIOR TO RELEASING FIXTURE.
 2. VERIFY ALL COMPONENTS REQUIRED TO CREATE A COMPLETE SYSTEMS AS INDICATED ON PLAN INCLUDING POWER SUPPLIES AND CONNECTION ACCESSORIES.

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CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53705

REVISIONS:
 04/06/21 BID SET
 05/20/21 ADDENDUM #3

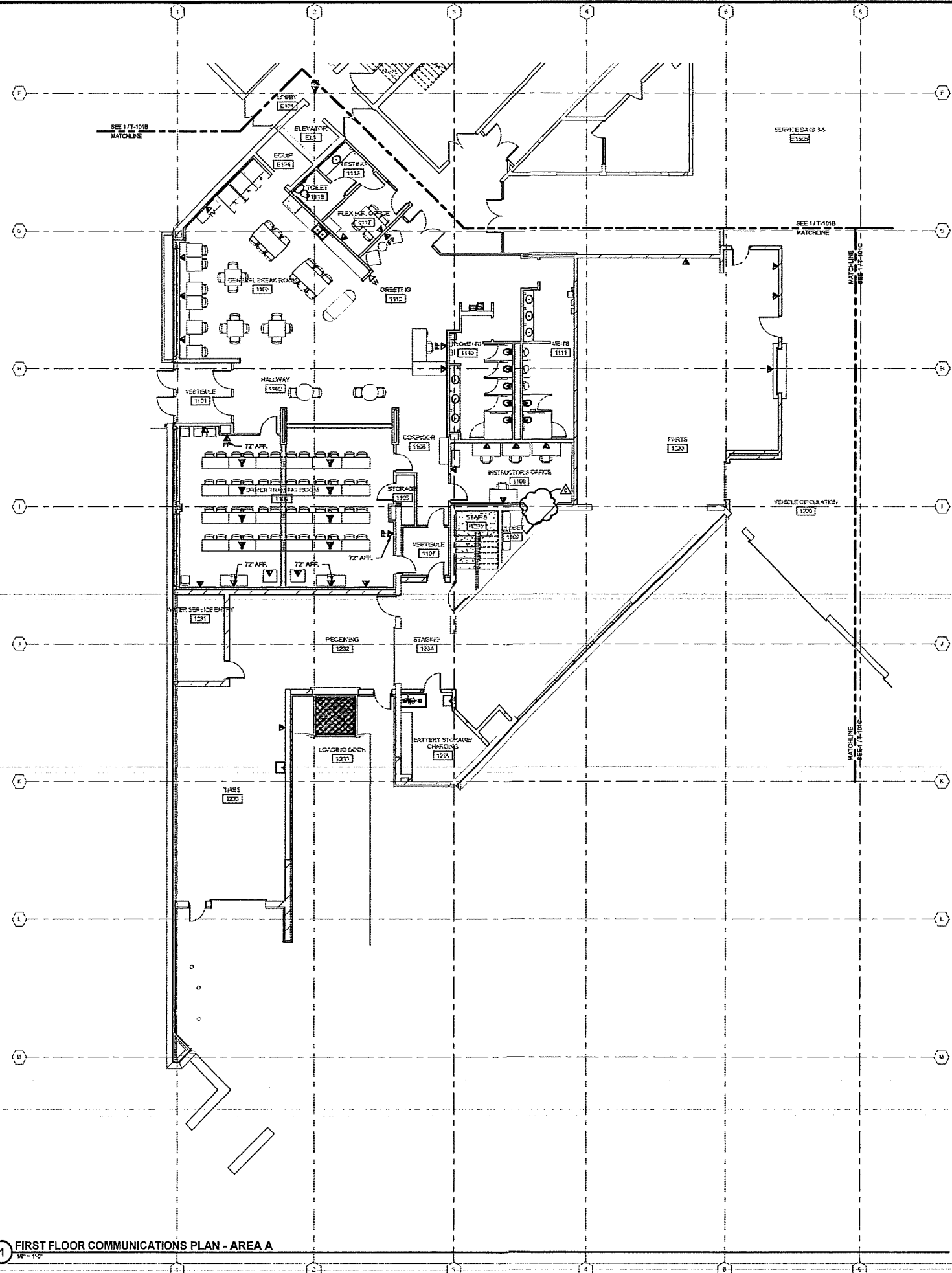
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 DATE: APRIL 8, 2021
 DESIGNED BY: MAM
 DRAWN BY: KAS
 CHECKED BY: SOL
 SHEET SCALE: ENHANCED

SHEET CONTAINS
 LIGHTING
 SCHEDULES

SHEET NO:
E-601

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ADDENDUM - 3



COMMUNICATIONS GENERAL NOTES

1. REFER TO T-101 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO DATA 1228.
4. ALTERNATE NO. 1, SEE SPECIFICATION 01200 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

Mead & Hunt
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 Middleton, WI 53562
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 mead@hunt.com

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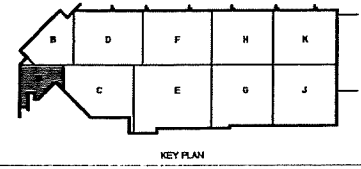
CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/06/21 BID SET
 05/20/21 ADDENDUM #3

CONTRACT NO: 2061
 DRAWING NO: 400000-100000-03
 DATE: APRIL 6, 2021
 DESIGNED BY: MUR
 DRAWN BY: RZ
 CHECKED BY: JRM
 50% NET SCALE DRAWING

FIRST FLOOR COMMUNICATIONS PLAN - AREA A

T-101A



TRUE PLAN
 NORTH NORTH
1 FIRST FLOOR COMMUNICATIONS PLAN - AREA A
 1/8" = 1'-0"

01/05/2021 11:40:21 AM C:\Users\Lowell\OneDrive\Documents\1048484_21a.rvt

ADDENDUM 3

ORIGINAL 43

**CITY OF MADISON
METRO TRANSIT - PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1 SOUTH INGERSOLL ST.
MADISON, WI 53703**

040821 BID SET

CONTRACT NO: 8961
REVISED: 4503000-100096.00
DATE: APRIL 8, 2021
DESIGNED BY: ACA
DRAWN BY: KSD
CHECKED BY: ACA
PROJECT NUMBER: 8961
SHEET CONTENTS:
SITE UTILITY PLAN

SHEET NO.
C-141

SITE KEY PLAN



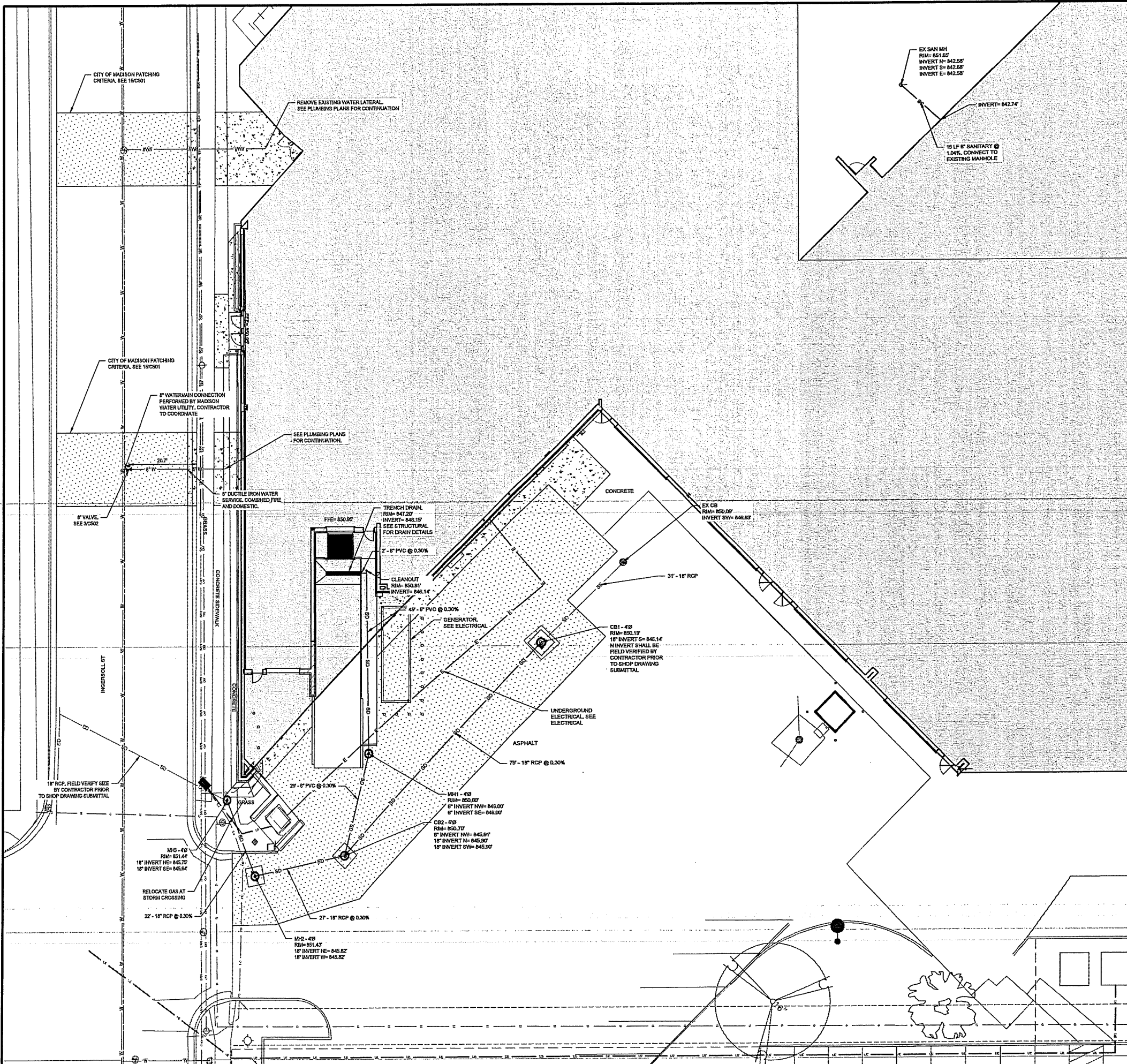
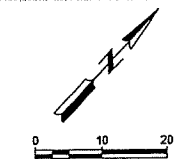
NOTES:

- 1) REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- 2) REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- 3) REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.

LEGEND:

- BOLLARD
- FIRE HYDRANT
- LIGHT POLE
- STORM INLET, ROUND
- STORM SEWER MANHOLE
- WATER VALVE
- FENCE
- TEMPORARY CONSTRUCTION FENCE
- STORM SEWER/CULVERT
- WATER
- WATER REMOVAL
- ASPHALT
- CONCRETE

SITE KEY PLAN



STRUCTURAL DESIGN CRITERIA

- 1. GOVERNING CODE: WISCONSIN COMMERCIAL BUILDING CODE... 2. RISK CATEGORY: II... 3. FLOOR LIVE LOAD (1603.1.1)... 4. ROOF LIVE LOAD (1603.1.2)... 5. WIND DESIGN DATA (1603.4)...

- 6. FLOOD DESIGN DATA (1603.1.7)... 7. PHOTOGRAPH PANEL SYSTEM LOADS (1603.1.1)... 8. STRUCTURAL OBSERVATIONS FOR SEISMIC AND/OR WIND RESISTANCE...

GENERAL NOTES

- G-1. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS... G-2. FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN... G-3. VERIFY ALL SIZES, WEIGHTS AND LOCATIONS OF MECHANICAL AND ELECTRICAL EQUIPMENT... G-4. DETAILS MARKED "TYPICAL" MAY OR MAY NOT BE CUT ON PLANS... G-5. STRUCTURAL SYSTEM IS DESIGNED TO WORK AS A COMPLETED SYSTEM... G-6. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING PLANS... G-7. NO PIPES OR SLEEVES FOR MECHANICAL TRADES SHALL PASS THROUGH STRUCTURAL MEMBERS WITHOUT APPROVAL... G-8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SITE SAFETY AND ALL ACCIDENTS WHICH RESULT IN DEATH, PERSONAL INJURY, OR DAMAGE TO PROPERTY ARISING OUT OF OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK... G-9. THE CONTRACTOR SHALL POST LIVE LOADS PER SECTION 106.1 OF THE GOVERNING CODE... G-10. SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.

EARTHWORK NOTES

- EW-1. REFERENCE GEOTECHNICAL DATA AND EARTH MOVING SPECIFICATION FOR DEFINITION OF MATERIALS AND COMPACTION REQUIREMENTS... EW-2. REFERENCE GEOTECHNICAL DATA AND EARTH MOVING SPECIFICATION FOR REQUIREMENTS FOR EXCAVATION AND CONTROL OF SURFACE WATER AND GROUNDWATER... EW-3. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL RETAIN AN INDEPENDENT, QUALIFIED GEOTECHNICAL ENGINEERING FIRM/TESTING AGENCY TO IDENTIFY AREAS OF POOR SOILS, TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE AND TEST THE PLACEMENT OF COMPACTED FILL MATERIAL... EW-4. ALL SUBTERRANEAN STRUCTURES, UTILITIES, PIPING, ETC. IN THE AREA OF EXCAVATIONS SHALL BE LOCATED AND MARKED BY CONTRACTOR PRIOR TO EARTH REMOVAL. CONTRACTOR SHALL MAINTAIN MARKERS UNTIL EXCAVATION ACTIVITIES HAVE CEASED... EW-5. BEFORE PLACING FOOTINGS, FOUNDATIONS OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS... EW-6. DO NOT BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST AND/OR ICE... EW-7. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.

FOUNDATION NOTES

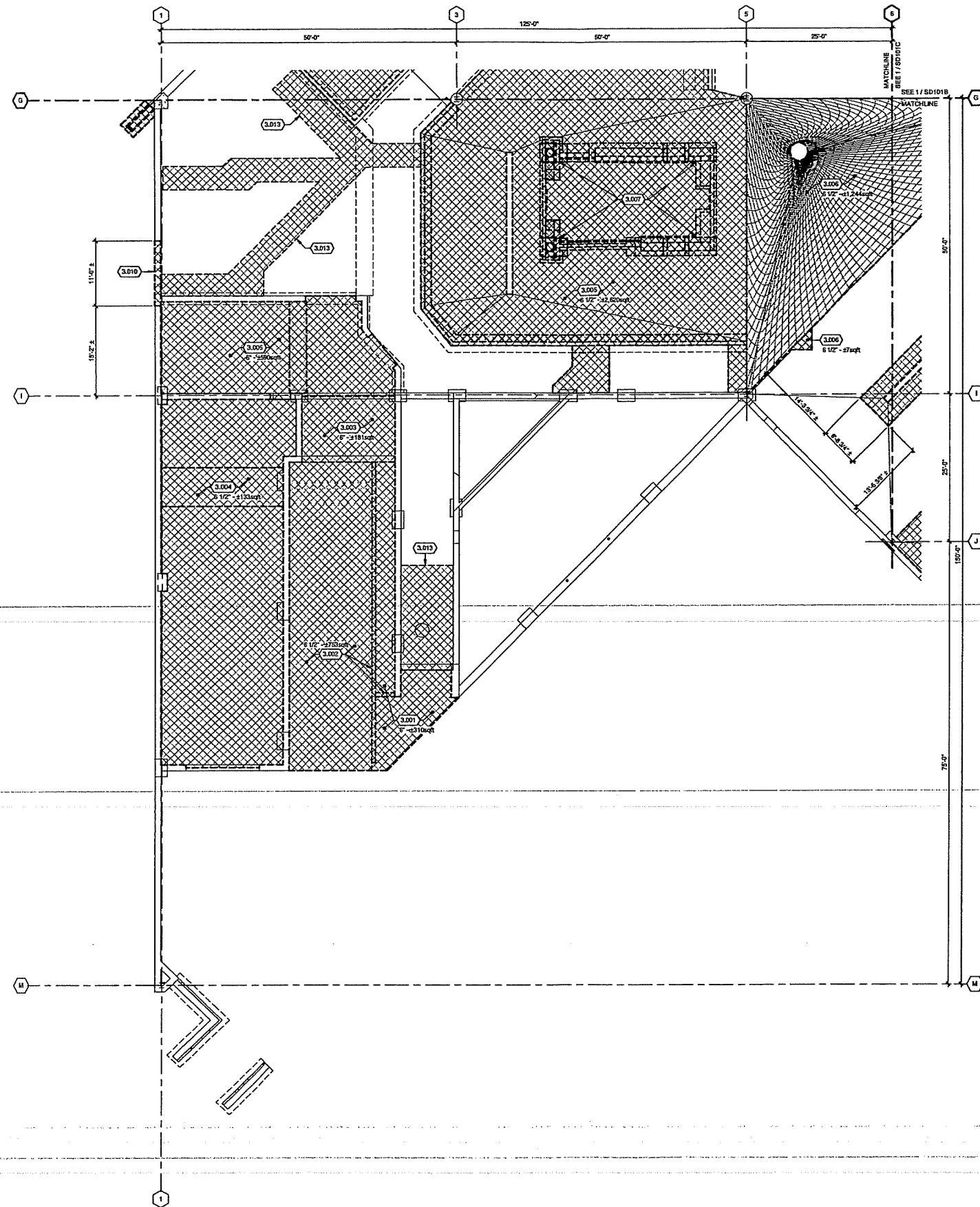
- F-1. FOOTING SUBGRADES SHALL BE CLEAN AND FREE OF DEBRIS, STANDING WATER, AND LOOSE SOIL... F-2. ALL COLUMN FOOTINGS ARE TO BE CENTERED UNDER COLUMN CENTERLINES, UNLESS INDICATED OTHERWISE... F-3. THE FOUNDATION CONTRACTOR SHALL FULLY REVIEW UNDERGROUND PLUMBING DRAWINGS AND SHALL COORDINATE WITH THE UNDERGROUND PLUMBING CONTRACTOR TO DEPRESS FOOTINGS AND PROVIDE PIPE SLEEVES THROUGH FOUNDATION WALLS AS NECESSARY TO ACCOMMODATE PLUMBING LINES OR TRAPS WHICH PENETRATE CONCRETE FOOTINGS OR FOUNDATIONS... F-4. PROVIDE PVC SLEEVES THROUGH FOUNDATION WALLS/FOOTINGS FOR PIPE, CONDUIT, AND CABLE PENETRATIONS, INCLUDING ELECTRICAL GROUNDING SYSTEM CABLES... F-5. REFER TO ELECTRICAL DRAWINGS FOR POLE BASES, SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR... F-6. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR MISCELLANEOUS FOUNDATIONS NOT SHOWN ON STRUCTURAL DRAWINGS... F-7. CONTROL JOINTS IN THE CAST-IN-PLACE CONCRETE FOUNDATION WALLS SHALL BE PLACED AT SPACING NOT TO EXCEED 20' O.C. OR AS LOCATED PER DRAWINGS AND SHOULD ALIGN WITH MASONRY CONTROL JOINTS WHERE APPLICABLE... F-8. A LEAN CONCRETE MUD SLAB 2" TO 3" THICK SHALL BE USED IN THE FOOTING EXCAVATION IF THE BOTTOM OF THE EXCAVATION TENDS TO BECOME MUDDY AND SOFT DUE TO CONSTRUCTION ACTIVITY... F-9. COORDINATE GROUNDING REQUIREMENTS FOR FOUNDATION FOOTING REINFORCING STEEL WITH ELECTRICAL DRAWINGS... F-10. SEE TYPICAL SLAB-ON-GRADE DETAILS FOR SLAB AND SUB-BASE REQUIREMENTS... F-11. PROVIDE HOT/COLD WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS... F-12. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION): 'ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE'; 'ACI 308, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'; 'ACI 309, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BLDGS.'; 'ACI 307, RECOMMENDED PRACTICES FOR CONCRETE FROM WORK'... F-13. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 318... F-14. ALL REINFORCING BARS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST CBSI MANUAL OF STANDARD PRACTICE AND SHALL BE CLEAN AND FREE OF GREASE AND SCALING RUST... F-15. SEE SECTION 03000 OF SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES... F-16. CONCRETE REINFORCEMENT PROTECTION/CLEAR COVER, UNLESS OTHERWISE NOTED: FOOTINGS: BOTTOM & SIDES: 3"; TOP: 2"; WALLS: EXTERIOR EXPOSURE: 2"; INTERIOR EXPOSURE: 1"; BEAMS/COLUMNS: OVER TRUS OR STRUTS: 1 1/2"; ELEVATED SLABS: 1"; F-17. ALL BAR LAPS SHALL CONFORM TO ACI 318-14, PARAGRAPH 25.1.1, CLASS 'B' SPLICE CRITERIA... F-18. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRAP... F-19. HORIZONTAL BARS SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OR WALL... F-20. CONTINUOUS TOP AND BOTTOM BARS, WHEN SHOWN IN TRANSVERSE SECTION ONLY, SHALL BE LAPPED AS FOLLOWS: TOP BARS NEAR MID-SPANS; BOTTOM BARS DIRECTLY OVER SUPPORTS, UNLESS NOTED OTHERWISE... F-21. PROVIDE ONE (1) HOOKED REINFORCING BAR IN CONCRETE FOOTING TO SERVE AS A 'CONCRETE ENCASED ELECTRODE' IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE... F-22. ALL CONCRETE FOUNDATION WALLS SHALL HAVE A MINIMUM OF (2) #5 BARS CONTINUOUS TOP AND BOTTOM, UNLESS INDICATED OTHERWISE... F-23. ALL OPENINGS IN CONCRETE FOUNDATION WALLS ARE TO HAVE (4) #5 DIAGONAL BARS EACH FACE OF THE WALL AND SHALL EXTEND 2 FEET BEYOND OPENINGS ON EACH SIDE, UNLESS INDICATED OTHERWISE... F-24. PROVIDE FOOTING DOWELS TO MATCH VERTICAL WALL REINFORCING WHERE WALL REINFORCING IS HOOKED. DOWEL FOOTING TO FOUNDATION WALLS WITH #5 REBAR AT 18" O.C. BY 3'-0" LONG, WITH STANDARD HOOKS EMBEDDED A MINIMUM OF 3" INTO FOOTING... F-25. ALL PIER FOOTINGS TO HAVE DOWELS WITH STANDARD HOOKS OF SAME SIZE AND QUANTITY AS PIER STEEL. DOWELS LAP PER STEEL AS REQUIRED FOR A CLASS 'B' TENSION SPLICE... F-26. HOOK HORIZONTAL WALL AND BEAM REINFORCING BARS AT DISCONTINUOUS ENDS, TYPICAL UNLESS INDICATED OTHERWISE... F-27. WATER STOPS SHALL BE PROVIDED IN HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS WHERE FINISHED FLOOR IS BELOW EXTERIOR GRADE UNLESS OTHERWISE APPROVED BY THE ENGINEER... F-28. PROVIDE ADDITIONAL #4 BARS AT 4'-0" LONG 1' BELOW TOP OF SLAB AT 45° TO ALL RE-ENTRANT CORNERS/OPENINGS IN CONCRETE SLABS AND AS INDICATED ON DRAWINGS... F-29. REFER TO FLOOR PLAN DRAWINGS AND/OR SPECIFICATIONS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS REQUIRED FOR MATS, TILE, AND OTHER FINISH MATERIALS... F-30. THICKEN THE SLAB-ON-GRADE BENEATH INTERIOR MASONRY PARTITIONS 8 INCHES BELOW BOTTOM OF SLAB ON GRADE... F-31. FITCH CONCRETE TO FLOOR DRAINS... F-32. PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT 15 FOOT MAXIMUM CENTERS EACH DIRECTION... F-33. ALL DOWELS INTO EXISTING CONCRETE OR SOLID MASONRY TO BE EPOXY ADHESIVE ANCHORS... F-34. ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE... F-35. WHEN DRILLING INTO EXISTING CONCRETE USE GROUND PENETRATING RADAR OR XRAY SCANNING TO LOCATE EXISTING REINFORCING... F-36. DRILL THROUGH EXISTING REINFORCING. CONTRACTOR ENGINEER IMMEDIATELY F ANCHOR LOCATIONS INTERFERE WITH EXISTING REINFORCING.

CONCRETE & REINFORCING STEEL NOTES

- MATERIAL PROPERTIES (U.L.O.) COMPRESSIVE STRENGTH - Fc = 4 KSI CONCRETE REINFORCEMENT - Fy = 60 KSI (A615 GR 60) CONCRETE REINFORCEMENT - Fy = 60 KSI (A615 GR 60) CR-1. PROVIDE HOT/COLD WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS... CR-2. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION): 'ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE'; 'ACI 308, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'; 'ACI 309, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BLDGS.'; 'ACI 307, RECOMMENDED PRACTICES FOR CONCRETE FROM WORK'... CR-3. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 318... CR-4. ALL REINFORCING BARS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST CBSI MANUAL OF STANDARD PRACTICE AND SHALL BE CLEAN AND FREE OF GREASE AND SCALING RUST... CR-5. SEE SECTION 03000 OF SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES... CR-6. CONCRETE REINFORCEMENT PROTECTION/CLEAR COVER, UNLESS OTHERWISE NOTED: FOOTINGS: BOTTOM & SIDES: 3"; TOP: 2"; WALLS: EXTERIOR EXPOSURE: 2"; INTERIOR EXPOSURE: 1"; BEAMS/COLUMNS: OVER TRUS OR STRUTS: 1 1/2"; ELEVATED SLABS: 1"; CR-7. ALL BAR LAPS SHALL CONFORM TO ACI 318-14, PARAGRAPH 25.1.1, CLASS 'B' SPLICE CRITERIA... CR-8. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRAP... CR-9. HORIZONTAL BARS SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OR WALL... CR-10. CONTINUOUS TOP AND BOTTOM BARS, WHEN SHOWN IN TRANSVERSE SECTION ONLY, SHALL BE LAPPED AS FOLLOWS: TOP BARS NEAR MID-SPANS; BOTTOM BARS DIRECTLY OVER SUPPORTS, UNLESS NOTED OTHERWISE... CR-11. PROVIDE ONE (1) HOOKED REINFORCING BAR IN CONCRETE FOOTING TO SERVE AS A 'CONCRETE ENCASED ELECTRODE' IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE... CR-12. ALL CONCRETE FOUNDATION WALLS SHALL HAVE A MINIMUM OF (2) #5 BARS CONTINUOUS TOP AND BOTTOM, UNLESS INDICATED OTHERWISE... CR-13. ALL OPENINGS IN CONCRETE FOUNDATION WALLS ARE TO HAVE (4) #5 DIAGONAL BARS EACH FACE OF THE WALL AND SHALL EXTEND 2 FEET BEYOND OPENINGS ON EACH SIDE, UNLESS INDICATED OTHERWISE... CR-14. PROVIDE FOOTING DOWELS TO MATCH VERTICAL WALL REINFORCING WHERE WALL REINFORCING IS HOOKED. DOWEL FOOTING TO FOUNDATION WALLS WITH #5 REBAR AT 18" O.C. BY 3'-0" LONG, WITH STANDARD HOOKS EMBEDDED A MINIMUM OF 3" INTO FOOTING... CR-15. ALL PIER FOOTINGS TO HAVE DOWELS WITH STANDARD HOOKS OF SAME SIZE AND QUANTITY AS PIER STEEL. DOWELS LAP PER STEEL AS REQUIRED FOR A CLASS 'B' TENSION SPLICE... CR-16. HOOK HORIZONTAL WALL AND BEAM REINFORCING BARS AT DISCONTINUOUS ENDS, TYPICAL UNLESS INDICATED OTHERWISE... CR-17. WATER STOPS SHALL BE PROVIDED IN HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS WHERE FINISHED FLOOR IS BELOW EXTERIOR GRADE UNLESS OTHERWISE APPROVED BY THE ENGINEER... CR-18. PROVIDE ADDITIONAL #4 BARS AT 4'-0" LONG 1' BELOW TOP OF SLAB AT 45° TO ALL RE-ENTRANT CORNERS/OPENINGS IN CONCRETE SLABS AND AS INDICATED ON DRAWINGS... CR-19. REFER TO FLOOR PLAN DRAWINGS AND/OR SPECIFICATIONS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS REQUIRED FOR MATS, TILE, AND OTHER FINISH MATERIALS... CR-20. THICKEN THE SLAB-ON-GRADE BENEATH INTERIOR MASONRY PARTITIONS 8 INCHES BELOW BOTTOM OF SLAB ON GRADE... CR-21. FITCH CONCRETE TO FLOOR DRAINS... CR-22. PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT 15 FOOT MAXIMUM CENTERS EACH DIRECTION... CR-23. ALL DOWELS INTO EXISTING CONCRETE OR SOLID MASONRY TO BE EPOXY ADHESIVE ANCHORS... CR-24. ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE... CR-25. WHEN DRILLING INTO EXISTING CONCRETE USE GROUND PENETRATING RADAR OR XRAY SCANNING TO LOCATE EXISTING REINFORCING... CR-26. DRILL THROUGH EXISTING REINFORCING. CONTRACTOR ENGINEER IMMEDIATELY F ANCHOR LOCATIONS INTERFERE WITH EXISTING REINFORCING.

MASONRY NOTES

- MATERIAL PROPERTIES (U.L.O.) MASONRY REINFORCEMENT - Fm = 2000 PSI MASONRY REINFORCEMENT - Fy = 60 KSI (A615 GR 60) MORTAR GROUT AT 28-DAYS - 2500 PSI (ASTM C476) M-1. PROVIDE HOT AND COLD WEATHER PROCEDURES AND TEMPORARY MOISTURE PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS... M-2. MASONRY SHALL BE PLACED IN ONE-HALF RUNNING BOND UNLESS OTHERWISE NOTED... M-3. HOLLOW MASONRY UNITS SHALL BE LAB WITH FULL HEAD JOINTS AND FULL BED JOINTS OF THE FACE SHELLS AND UNDER WEBS WHERE THE ADJACENT CELLS ARE TO BE FILLED WITH GROUT AND AT THE BOTTOM COURSE... M-4. WHERE MASONRY IS APPLIED ADJACENT TO STEEL MEMBERS (BEAMS AND COLUMNS) PROVIDE ANCHORING DEVICES PER SPECIFICATIONS... M-5. REFER TO ARCHITECTURAL PLANS AND DOOR/FRAME SCHEDULES FOR LINTEL ROUGH OPENING LOCATIONS, SIZES, AND ELEVATIONS... M-6. ALL MASONRY WALLS ARE TO HAVE 9 GAUGE HORIZONTAL JOINT REINFORCEMENT WHICH DOES NOT EXCEED 18 INCHES ON CENTER VERTICALLY... M-7. ALL LAPS SHALL BE 48 BAR DIAMETERS UNLESS INDICATED OTHERWISE... M-8. GROUT SOLID ALL JAMBS IN ALL MASONRY WALLS FULL HEIGHT TO UNDERSIDE OF LINTEL... M-9. PROVIDE CORNER SPLICE BARS FOR ALL BOND BEAMS OCCURRING AT CORNERS OR WALL INTERSECTIONS... M-10. ALL NON-STRUCTURAL MASONRY WALLS SHALL BE REINFORCED WITH A MINIMUM #5 VERTICAL BARS AT 48" O.C. AND HORIZONTAL JOINT REINFORCEMENT AT 18" O.C... M-11. USE EPOXY ANCHORS IN NON-STRUCTURAL MASONRY WALL PARTITIONS, UNLESS OTHERWISE NOTED... M-12. REFER TO STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS... M-13. PROVIDE HORIZONTAL BOND BEAMS (DAPHRAGM CHORDS) WITH (2) #5 BARS CONTINUOUS, BENEATH FLOOR/ROOF MEMBER BEARING ELEVATIONS AND AT DECK EDGE... M-14. PROVIDE 10 GAUGE BENT SLP JOINT PLATES 4" x 4" x 1/4" LONG AT 3'-0" O.C. EACH SIDE OF THE TOP OF ALL NON-STRUCTURAL MASONRY WALLS... M-15. PROVIDE CORNER SPLICE BARS FOR ALL BOND BEAMS OCCURRING AT CORNERS OR WALL INTERSECTIONS... M-16. 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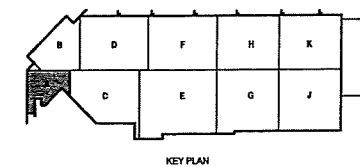
**FOUNDATION AND FLATWORK
DEMOLITION PLAN GENERAL NOTES:**

1. REFERENCE G-020 THROUGH G-026 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLLOGY.
7. "ATTENTION" FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

KEYED NOTES

- 3.001 REMOVE EXISTING EXTERIOR SLAB AS SHOWN.
- 3.002 REMOVE EXISTING LOADING DOCK SLAB AND RETAINING WALLS AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.003 REMOVE EXISTING 2-WAY LOADING DOCK SLAB AS SHOWN, EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.004 REMOVE EXISTING INTERIOR SLAB AS SHOWN FOR NEW FOUNDATION INSTALLATION. EXISTING GRADE BEAMS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.005 REMOVE EXISTING INTERIOR SLAB AND THICKENED SLAB AS SHOWN. EXISTING GRADE BEAMS AND FOOTINGS TO REMAIN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.006 REMOVE EXISTING INTERIOR SLAB AS SHOWN. SLAB THICKNESS AND SQUARE FOOTAGE FOR REFERENCE. FIELD VERIFY.
- 3.007 REMOVE EXISTING VEHICLE LIFT AND ASSOCIATED CONCRETE SLAB AND FOUNDATIONS. EXISTING STEEL PILES TO REMAIN. TURN OVER LIFT AND ASSOCIATED COMPONENTS TO OWNER AS REQUIRED.
- 3.010 CUT DOWN AND REMOVE EXISTING CONCRETE WALL/GRADE BEAM AS REQUIRED FOR NEW DOORS. TOP OF WALL/GRADE BEAM SHALL BE CUT DOWN TO ELEVATION 99'-6". PREP TOP OF WALL FOR NEW FLOOR FINISH, COORDINATE WITH ARCHITECTURAL. PATCH CONCRETE TO FINISHED FLOOR, COORDINATE WITH OTHER MATERIALS FOR FINISH AND EXACT ELEVATION.
- 3.013 REMOVE EXISTING SLAB AS REQUIRED FOR DEMO/INSTALLATION OF PLUMBING. COORDINATE LOCATIONS WITH PLUMBING. REPLACE SLAB AFTER COMPLETION OF PLUMBING WORK WITH SLAB TYPE SUB06. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.

TRUE PLAN
NORTH/NORTH
1 FOUNDATION/FLATWORK DEMOLITION PLAN - AREA A
1/8" = 1'-0"



Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

ISSUE
04/08/21 BID SET

CONTRACT NO: 8961
PLAN NO.: 4502300-190699.03
DATE: APRIL 8, 2021
DESIGNED BY: DWD
DRAWN BY: NJB / MAE
CHECKED BY: DFM
DO NOT SCALE DRAWINGS

SHEET CONTAINS
FOUNDATION AND
FLATWORK
DEMOLITION PLAN -
AREA A

SHEET NO.:

SD101A

ORIGINAL

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ORIGINAL

ROOF FRAMING DEMOLITION PLAN GENERAL NOTES:

1. REFERENCE G-000 THROUGH G-000 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. **ATTENTION:** FULL EXTENT OF DEMOLITION REQUIRED MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED DEMOLITION WITH OUR DISCIPLINES AND IN-FIELD CONDITIONS.

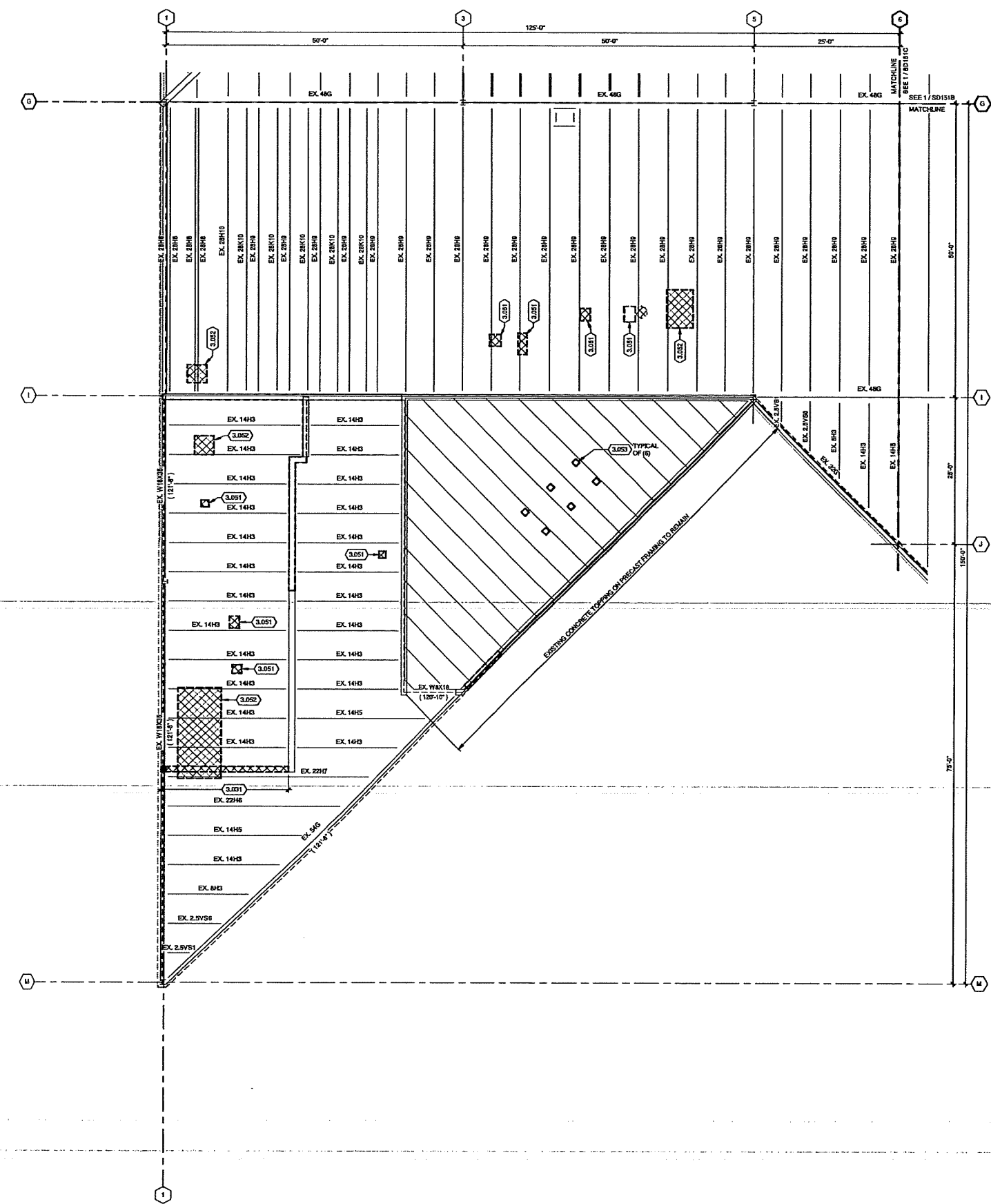
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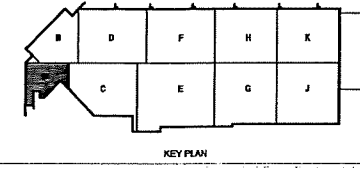
**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

KEYED NOTES

- 3.001 REMOVE EXISTING MASONRY WALL(S) FULL HEIGHT FROM FOUNDATIONS UP TO TOP OF EXISTING MASONRY WALL. FOUNDATIONS TO REMAIN UNLESS INDICATED OTHERWISE. COORDINATE EXTENTS WITH ARCHITECTURAL AND IN-FIELD CONDITIONS.
- 3.051 NEW OPENING IN ROOF FOR MECHANICAL EQUIPMENT. REFER TO NEW CONSTRUCTION DRAWINGS FOR FRAMED OPENING REQUIREMENTS. COORDINATE WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.052 REMOVE EXISTING MECHANICAL EQUIPMENT CURB AND PATCH OPENING.
- 3.053 NEW OPENING IN PRECAST CONCRETE PLANK ROOF FOR MECHANICAL. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL.



TRUE PLAN NORTH NORTH
1 ROOF FRAMING DEMOLITION PLAN - AREA A
1/8" = 1'-0"



04/08/21 BID SET

CONTRACT NO. 8301
PROJECT NO. 452000-1000563D
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: NJB/MAE
CHECKED BY: DPM
SHEET SCALE: DIMENSIONS
SHEET CONTENTS:
ROOF FRAMING
DEMOLITION PLAN -
AREA A

SHEET NO.:
SD151A



**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/06/21 BID SET

CONTRACT NO: 8981
MAP NO: 4503500-100966.03
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NLS / MAE
CHECKED BY: DRM
SCALE: AS SHOWN

REFER TO CONTRACT
FOUNDATION PLAN -
AREA A

SHEET NO:
S-101A

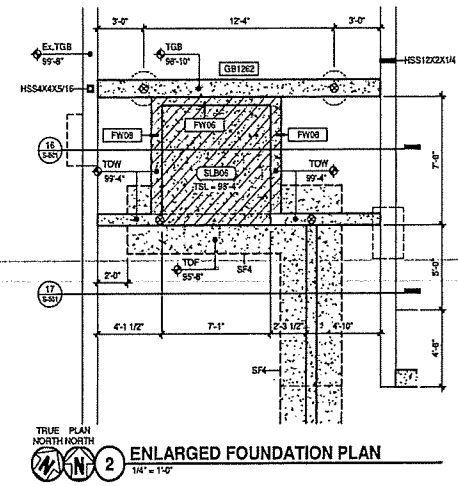
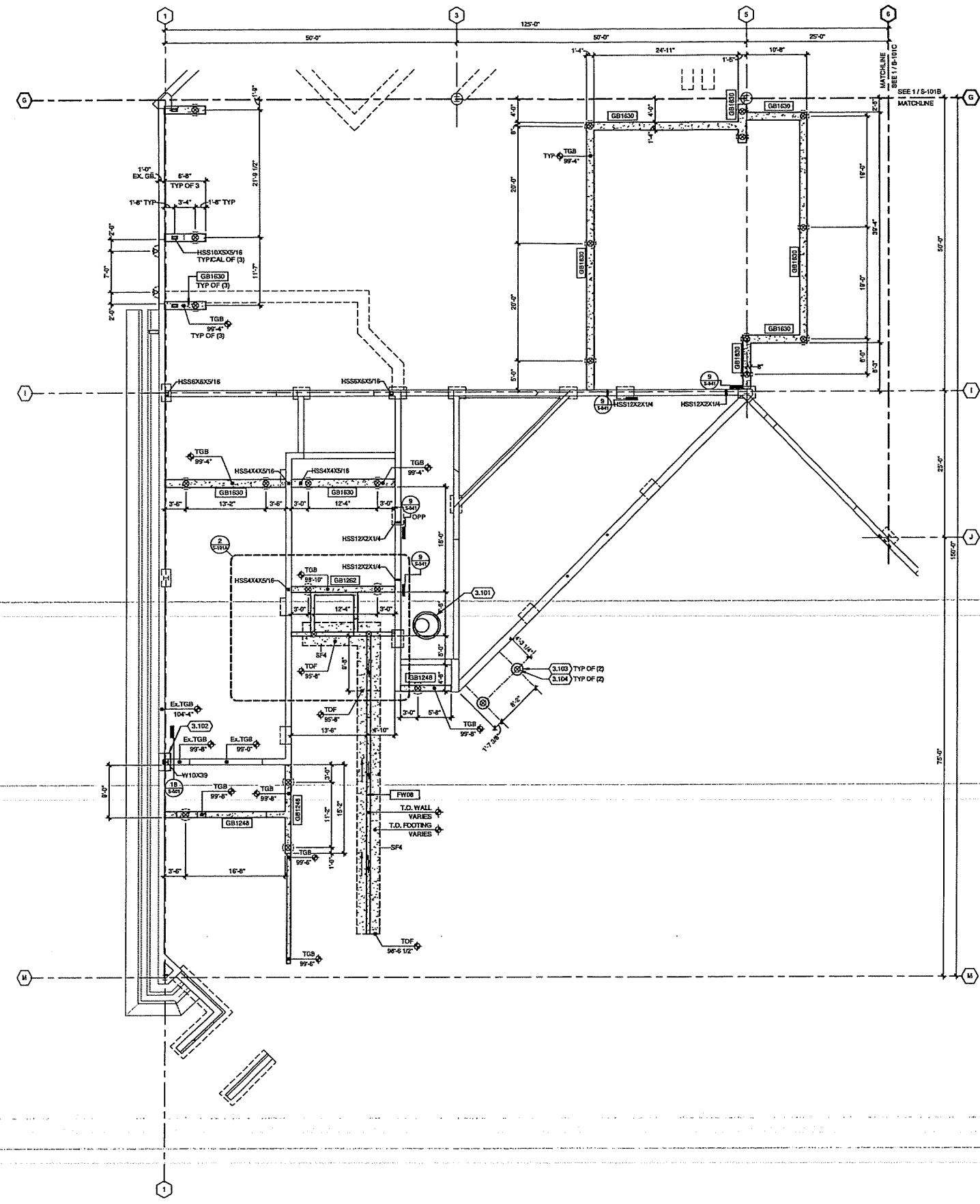
ORIGINAL

**FOUNDATION
PLAN GENERAL NOTES:**

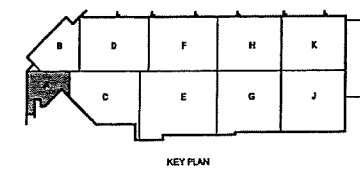
1. REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
7. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. TOP OF FOOTING ELEVATION = 99'-0" UNLESS NOTED OTHERWISE.
9. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
10. STRIP FOOTINGS AND GRADE BEAMS SHALL BE CENTERED UNDER FOUNDATION AND/OR MASONRY WALLS UNLESS NOTED OTHERWISE.
11. (A) = RETROFIT HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"
12. (B) = NEW HELICAL PIER
 • 32 KIP SERVICE LEVEL CAPACITY
 • MINIMUM EMBEDMENT DEPTH = 25'-0"

KEYED NOTES

- 3.101 4'-0" DIAMETER X 6'-0" DEEP MANHOLE WITH SOLID BOTTOM, FLAT TOP WITH 28" DIAMETER OFFSET MANWAY HOLE. CAST IRON CASTING WITH SLOTTED CAST IRON GRATE. FILL BOTTOM 2'-0" WITH CLEAR, WASHED 3/4" LIMESTONE, LESS THAN 5% PASSING 30". MANHOLE MUST BE LIMESTONE FOR NEUTRALIZATION OF SPILLED BATTERY ACID.
- 3.102 NEW PIER AT EXISTING GRADE BEAM, SEE DETAIL 14S-501.
- 3.103 24" DIAMETER CONCRETE PIER, FULL 6'-0" HEIGHT TO BE POURED AT THE SAME TIME. REINFORCING SHALL BE (8) #5 VERTICAL BARS, @ 12" SPACED AT 12" VERTICALLY, AND TRIPLE TOP TIE IN THE TOP 12" OF PIER, DOME TOP OF PIER WITH SLOPE OF 1/4" PER FOOT MINIMUM.
- 3.104 HELICAL PIER, 10 KIP COMPRESSION CAPACITY.



TRUE PLAN
NORTH NORTH
1 FOUNDATION PLAN - AREA A
1/8" = 1'-0"



KEY PLAN

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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/08/21 BID SET

CONTRACT NO: E591
REV NO: 4005000-10000000
DATE: APRIL 8, 2021
DESIGNED BY: DXC
DRAWN BY: NUB / MAE
CHECKED BY: DRM
BID NOT SCALE DRAWINGS

SHEET CONTENTS
FIRST FLOOR
FLATWORK PLAN -
AREA A

SHEET NO:

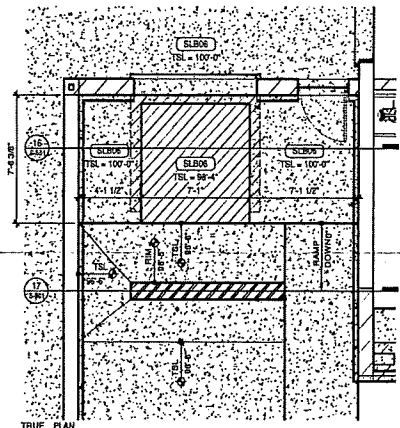
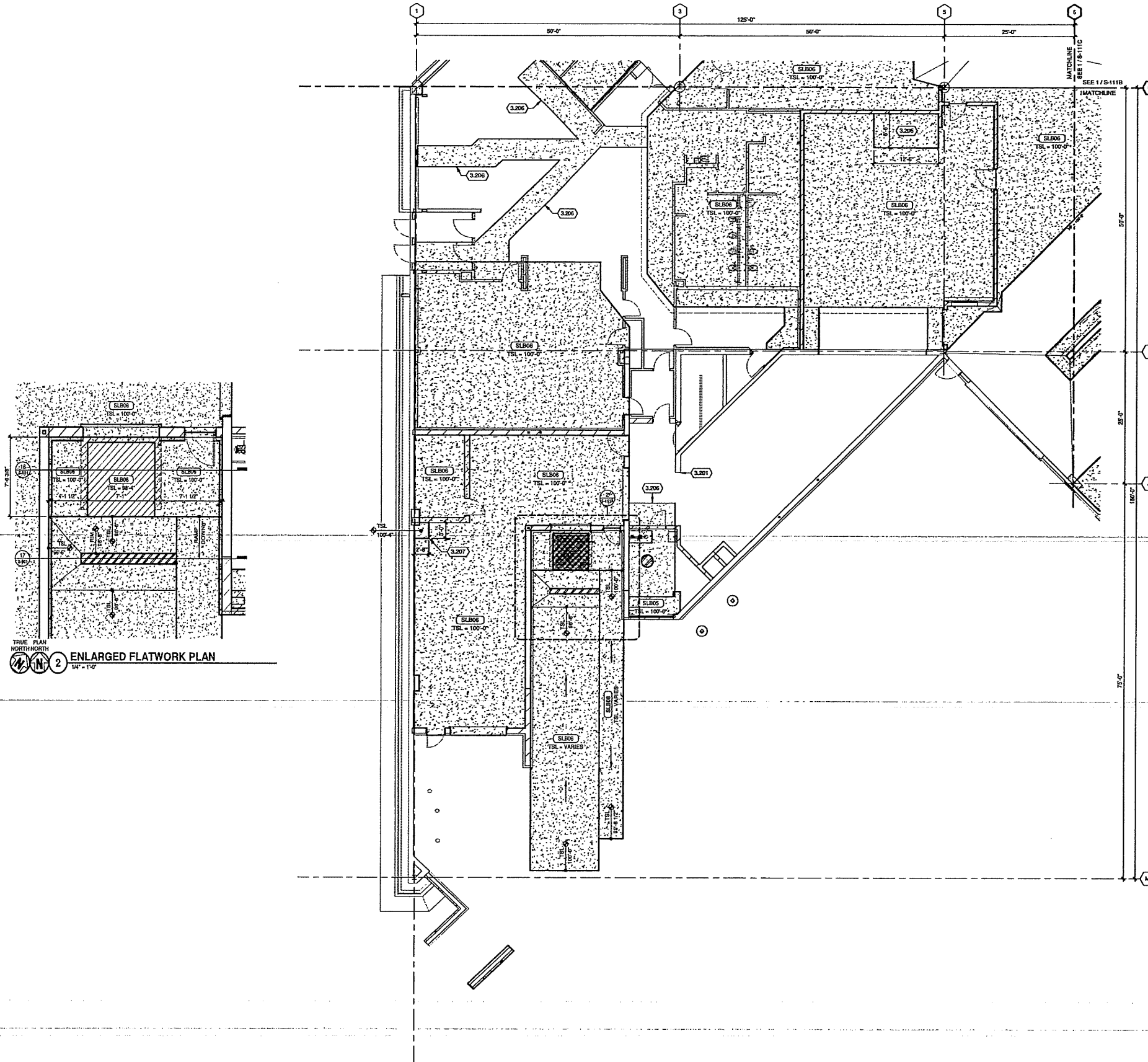
S-111A

**FLATWORK
PLAN GENERAL NOTES:**

1. REFERENCE G-200 THROUGH G-203 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS.
7. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
8. REFER TO DETAIL 1/5-511 FOR STRUCTURAL SLAB TYPES.
9. FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
10. (D) DASHED LINES INDICATE (D) ADDITIONAL #4 BARS (6" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.
11. DOWEL ALL NEW SLAB/FILL TO EXISTING PER DETAIL S/S-511, UNLESS INDICATED OTHERWISE.
12. "ATTENTION" FULL EXTENT OF SLAB REPLACEMENT REQUIRED DUE TO OTHER DISCIPLINE DISCREPANCY MAY NOT BE CAPTURED ON DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL REQUIRED SLAB REPLACEMENT WITH OTHER DISCIPLINES AND IN-FIELD CONDITIONS.

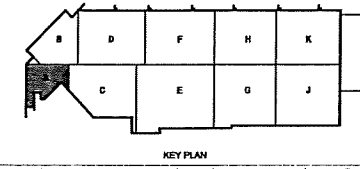
KEYED NOTES

- 3.201 PATCH SLAB AT WALL REMOVAL, MATCH EXISTING THICKNESS, DOWEL PER DETAIL S/S-511.
- 3.205 12" ISOLATED EQUIPMENT PAD, SEE DETAIL 7/5-511, TOP OF SLAB ELEVATION - 100'-0".
- 3.206 SLAB REPLACEMENT AFTER COMPLETION OF PLUMBING DEMONSTRATION, COORDINATE LOCATIONS WITH PLUMBING. REPLACE WITH SLAB TYPE SLB06. MATCH ADJACENT FLOOR ELEVATIONS AND SLOPES.
- 3.207 NEW EQUIPMENT PAD, SEE DETAIL S/S-511. COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING EQUIPMENT SUPPLIER.



TRUE PLAN
NORTH/NORTH
2 ENLARGED FLATWORK PLAN
1/8" = 1'-0"

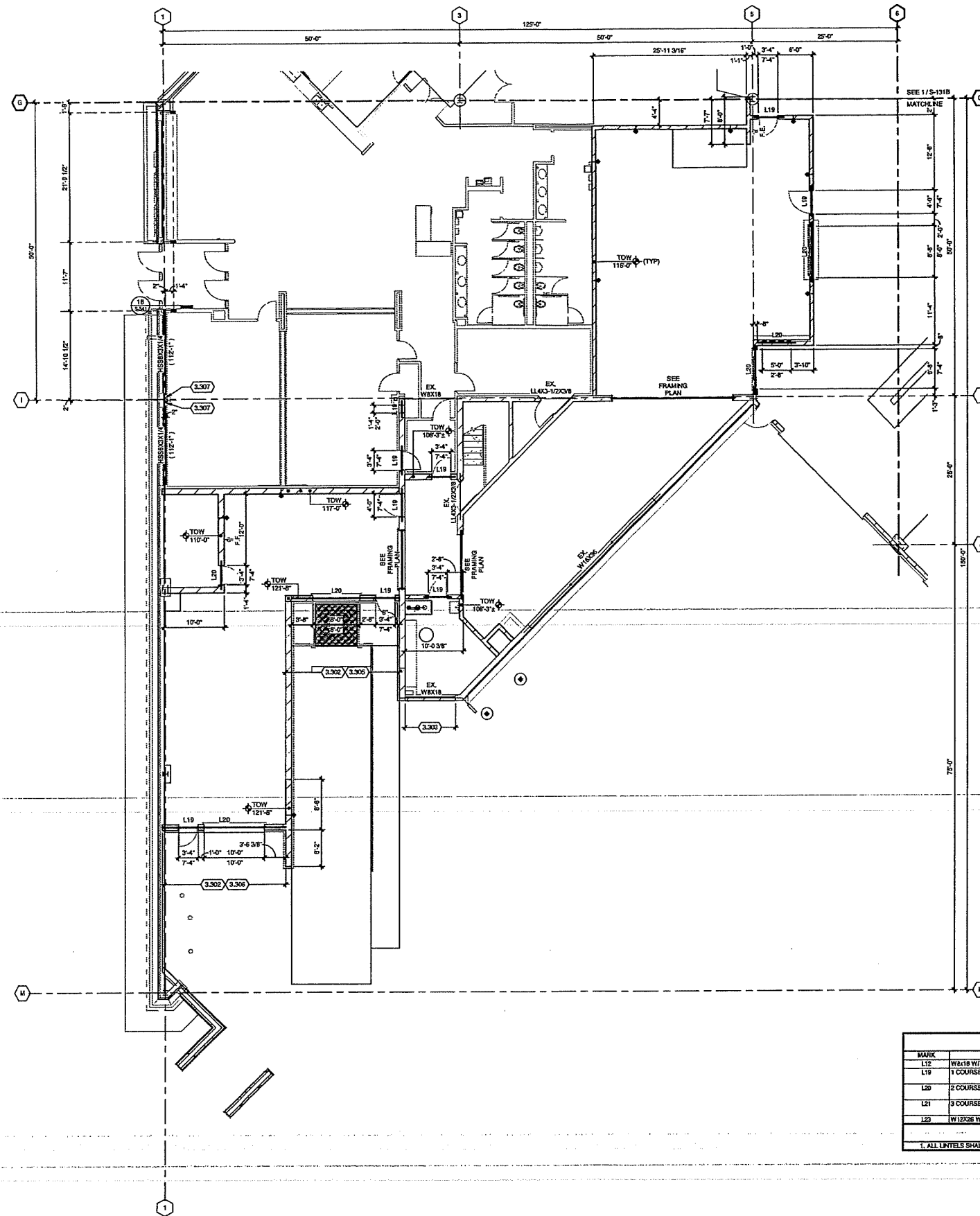
TRUE PLAN
NORTH/NORTH
1 FIRST FLOOR FLATWORK PLAN - AREA A
1/8" = 1'-0"



KEY PLAN

D. B. G. / N. A. L.

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STRUCTURAL FLOOR PLAN GENERAL NOTES:

1. REFERENCE G-200 THROUGH G-200 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOLOGY.
7. REFER TO SHEET S-131A FOR LINTEL SCHEDULE.
8. REFER TO SHEET S-531 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
9. ALL MASONRY WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48" O.C., CENTERED IN WALL, UNLESS NOTED OTHERWISE.
10. GROUT ALL MASONRY SOLID BELOW FINISHED FLOOR ELEVATION AND 1 FULL COURSE ABOVE FINISHED FLOOR.
11. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
12. STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (M.C.J.), UNLESS NOTED OR DETAILED OTHERWISE.
13. PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED EXCEPTING 1'-0" (1'-0" MAX) IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
14. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
15. CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.

KEYED NOTES

- 3.302 NEW 8" CMU WALL FULLY GROUTED, FULL HEIGHT, WITH JAMB REINFORCING PER DETAIL 65-521.
- 3.303 NEW 8" CMU INFILL FULLY GROUTED WITH #5 VERTICAL BAR EACH CORE.
- 3.305 LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL.
- 3.306 LINTEL L20 SHALL SPAN ENTIRE LENGTH OF THIS WALL. FULL LENGTH BOND BEAM WITH (2) #5 BARS AT 4'-0" VERTICAL SPACING ABOVE OPENINGS.
- 3.307 FIELD WELD HSS LINTEL BEAM TO HSS COLUMN WITH 1/4" FILLET WELD, THREE SIDES.

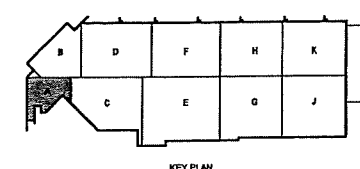
LINTEL SCHEDULE				
MARK	DESCRIPTION	BEARING	DETAIL	REMARKS
L12	WALL WITH PLATE	8" E.E.		
L19	1 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	8" E.E.		NO BOTTOM PLATE
L20	2 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	4" E.E.		NO BOTTOM PLATE
L21	3 COURSE BOND BEAM WITH (2) #5 AT BOTTOM	24" E.E.		NO BOTTOM PLATE
L22	W12X26 WITH PL 14x11-1/2	8" E.E.		

LINTEL SCHEDULE GENERAL NOTES

1. ALL LINTELS SHALL HAVE 1/4" THICK BOTTOM PLATE TO MATCH WIDTH OF WALL MINUS 1/4" EACH SIDE UNL.D.

TRUE PLAN NORTH NORTH

1 STRUCTURAL FIRST FLOOR PLAN - AREA A
 1/8" = 1'-0"



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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

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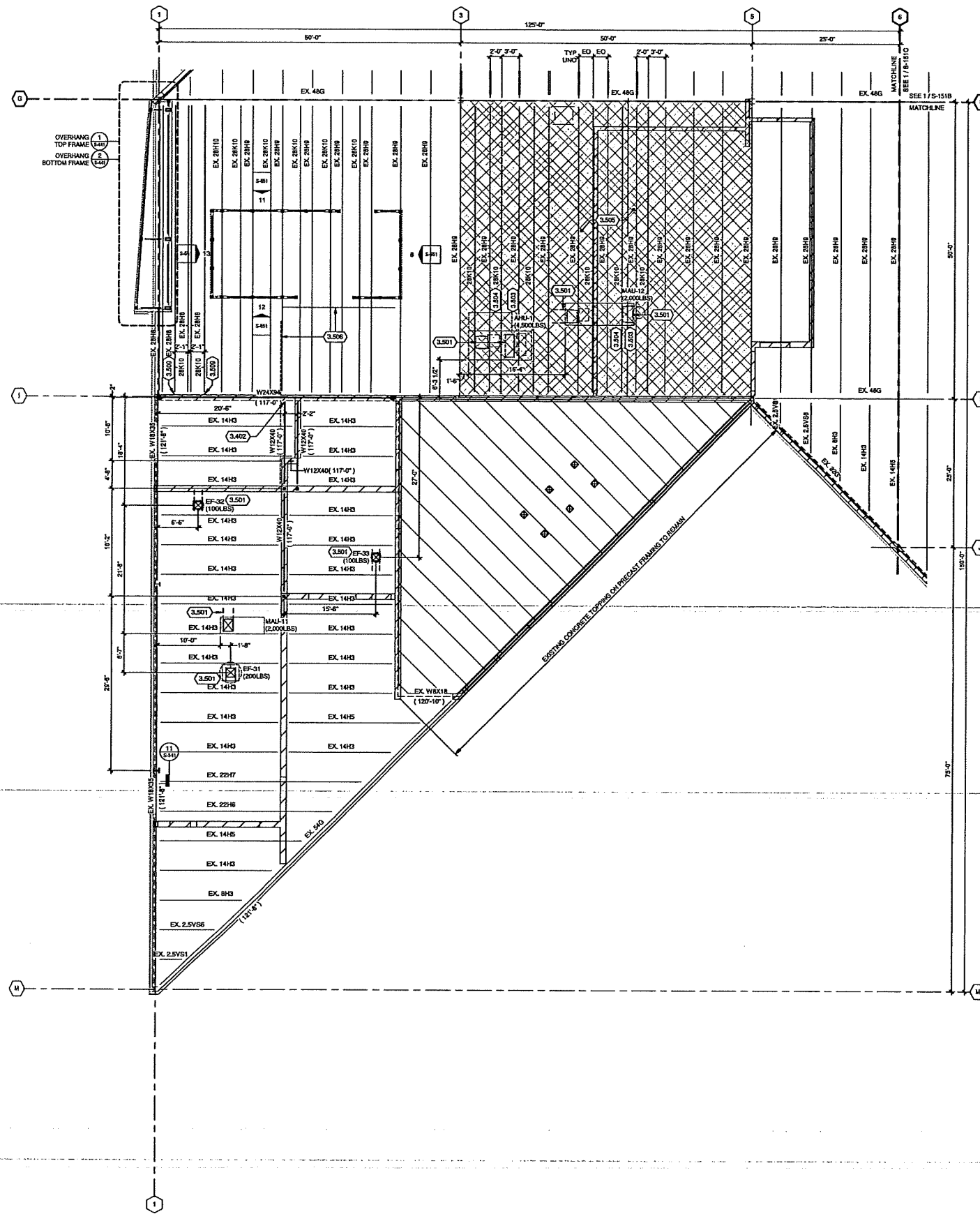
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 DATE: APRIL 8, 2021
 DESIGNED BY: DDC
 DRAWN BY: NLS / MJE
 CHECKED BY: DRM
 (DO NOT SCALE DIMENSIONS)

SHEET CONTENTS:
 STRUCTURAL FIRST FLOOR PLAN - AREA A

SHEET NO:
S-131A

ORIGINAL

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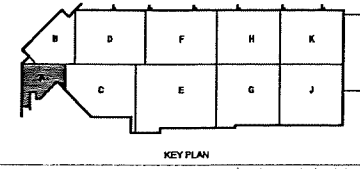


ROOF FRAMING PLAN GENERAL NOTES:

1. REFERENCE G-200 THROUGH G-200 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1-DN 2 REQUIREMENTS.
2. REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
3. REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
4. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
5. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
6. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS ONLY.
7. REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
8. REFER TO SHEETS S-441 AND S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
9. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - A. AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "KC" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "KC" SERIES - MINIMUM 2 1/2"
10. ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER JOIST AMONG EXISTING UTILITIES OR OTHER RESTRICTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
11. BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 105-551. NEW JOISTS SHALL BE DESIGNED FOR TDP CHORD BRACING AT THESE POINTS ONLY.
12. REINFORCING JOIST GRIDDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GRIDDERS AND INSTALLING SISTER JOIST.
13. CUT BRIDGERS AND BRACING TO INSTALL NEW JOIST. REINSTALL BRIDGERS AND BRACING TO ORIGINAL CONDITIONS OR MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
14. BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
15. NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
16. FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTION(S) TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
17. PLACEMENT OF BALLAST SHALL NOT EXCEED 12PSF.
18. VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
19. DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

KEYED NOTES

- 3.402 SLP CRITICAL BOLT CONNECTION.
- 3.501 NEW FRAMED ROOF OPENING. REFER TO DETAIL 65-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- 3.503 INSTALL STRUT IN EXISTING JOIST AT SUPPORT POINT FOR ROOF TOP UNIT PER DETAIL 105-551. TYPICAL AT EVERY EXISTING JOIST UNDER ROOF TOP UNIT.
- 3.504 JOIST MANUFACTURER TO PROVIDE JOIST NODE IN NEW JOIST AT SUPPORT POINT FOR ROOF TOP UNIT. SUPPORT POINT OF ROOF TOP UNIT OCCURS AT EACH SIDE OF UNIT. TYPICAL AT EVERY JOIST UNDER ROOF TOP UNIT. LOAD FROM ROOF TOP UNIT = 1,775 LBS.
- 3.505 REMOVE BALLAST FROM THIS AREA BEFORE ADDING NEW JOISTS OR REINFORCING EXISTING FRAMING FOR AHU-1 AND MAU-12.
- 3.506 LIFT PARTITION/SUPPORTS MUST BE SUSPENDED OFF ADJACENT JOISTS. NO LOADS ALLOWED ON 28K'S. LIFT PARTITIONS SHALL NOT EXCEED 12 PSF.
- 3.508 AT NEW 28K10 JOIST, DESMO POCKET IN EXISTING MASONRY WALL TO CREATE BEARING TO MATCH DETAIL 105-551.



TRUE PLAN NORTH NORTH
1 ROOF FRAMING PLAN - AREA A
 1/8" = 1'-0"

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City of Madison
 Wisconsin



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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

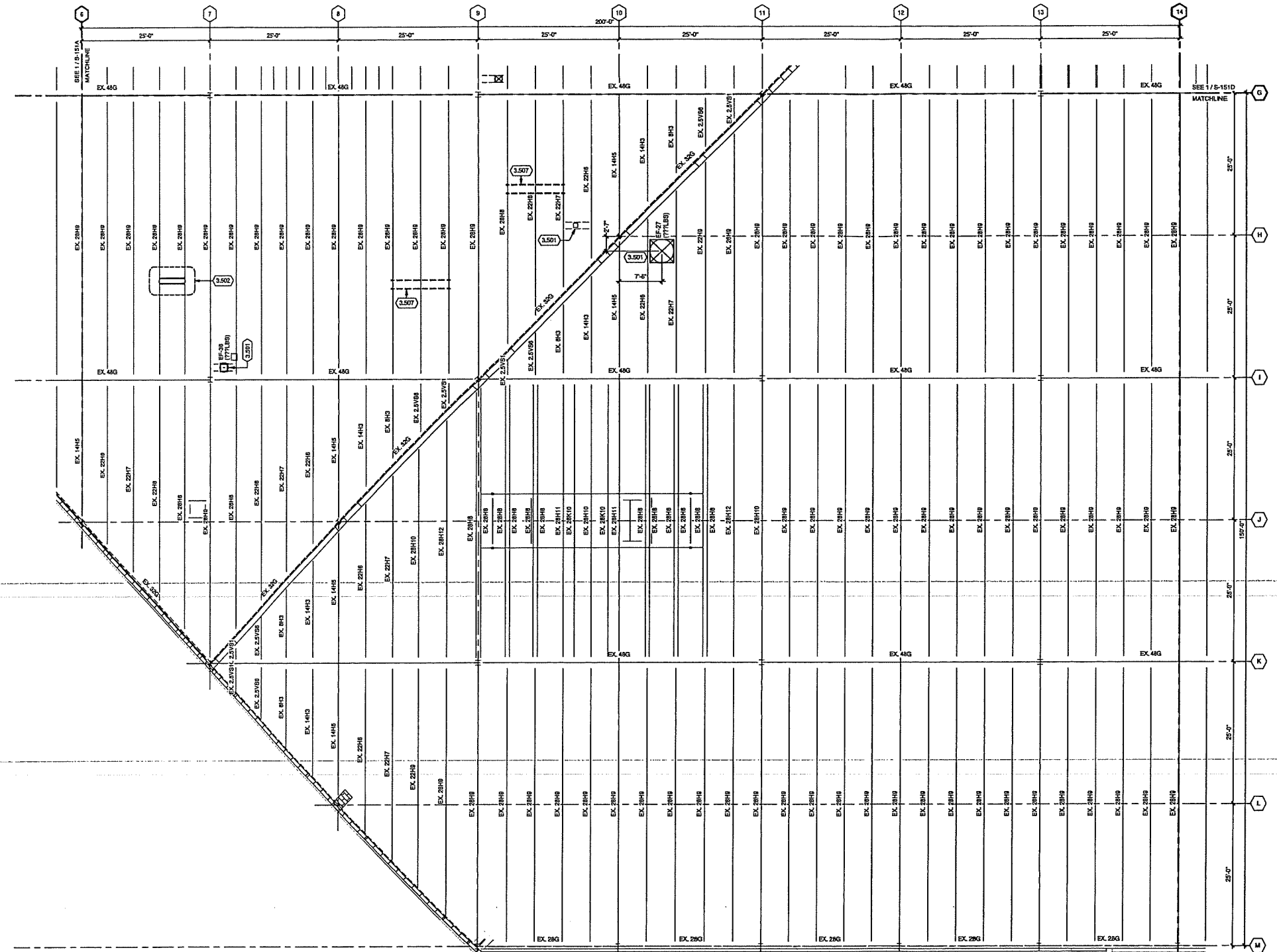
04/08/21 BID SET

CONTRACT NO: 6991
 PROJ NO: 4505500-100896.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DYC
 DRAWN BY: NUB/JAL/E
 CHECKED BY: DRM
 DATE: 04/08/21
 SHEET CONTENTS:
 ROOF FRAMING
 PLAN - AREA A

S-151A

ORIGINAL

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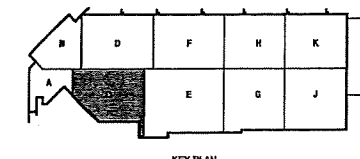


**ROOF FRAMING
PLAN GENERAL NOTES:**

- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING SEQUENCES AND SITE ACCESS.
- REFERENCE D-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- DATE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
- REFER TO SHEETS S-541 AND S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR INSTALLED OTHERWISE:
 - A. AT MASONRY WALLS
 - * "K" SERIES - MINIMUM 4"
 - * "KS" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - * "K" SERIES - MINIMUM 2 1/2"
 - * "KS" SERIES - MINIMUM 2 1/2"
- ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER-JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
- BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-551. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
- REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST.
- CUT BRACING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRACING AND BRACING TO ORIGINAL CONDITIONS OR MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
- BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED ON-SITE.
- NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
- FABRICATE JOIST WITH ZERO CAMBER. PROVIDE BRIMS IN SPLICE CONNECTIONS TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
- PLACEMENT OF BALLAST SHALL NOT EXCEED 12PSF.
- VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
- DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2 1/2" DEEP. PROVIDE AND INSTALL BRIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

KEYED NOTES

- NEW FRAMED ROOF OPENING. REFER TO DETAIL 6S-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- NEW SUPPORT FRAMING FOR DESTABILIZATION FAIL. REFER TO DETAIL 7S-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- HORE REEL SUSPENSION FRAMING. SEE DETAILS ON SHEET S-541.



TRUE PLAN
NORTH NORTH
1 ROOF FRAMING PLAN - AREA C
1/8" = 1'-0"

Mead & Hunt

Mead & Hunt, Inc.
2440 Daming Way
Madison, WI 53762
phone: 608-273-6380
meadhunt.com

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/08/21 BID SET

CONTRACT NO: 8581
MAN NO: 4503500-150896.00
DATE: APRIL 8, 2021
DESIGNED BY: DDC
DRAWN BY: NLS / MUE
CHECKED BY: DRM
DO NOT SCALE DIMENSIONS

SHEET CONTAINS
ROOF FRAMING
PLAN-AREA C

SHEET NO:

S-151C

SLG/MAE

D.L.G./NAC



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/08/21 BID SET

CONTRACT NO: 8981
 MAIL NO: 452050-10096.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DDC
 DRAWN BY: NAB / MAE
 CHECKED BY: DRM
 SEE SCALE DIMENSIONS

SHEET CONTAINS
ROOF FRAMING PLAN - AREA D

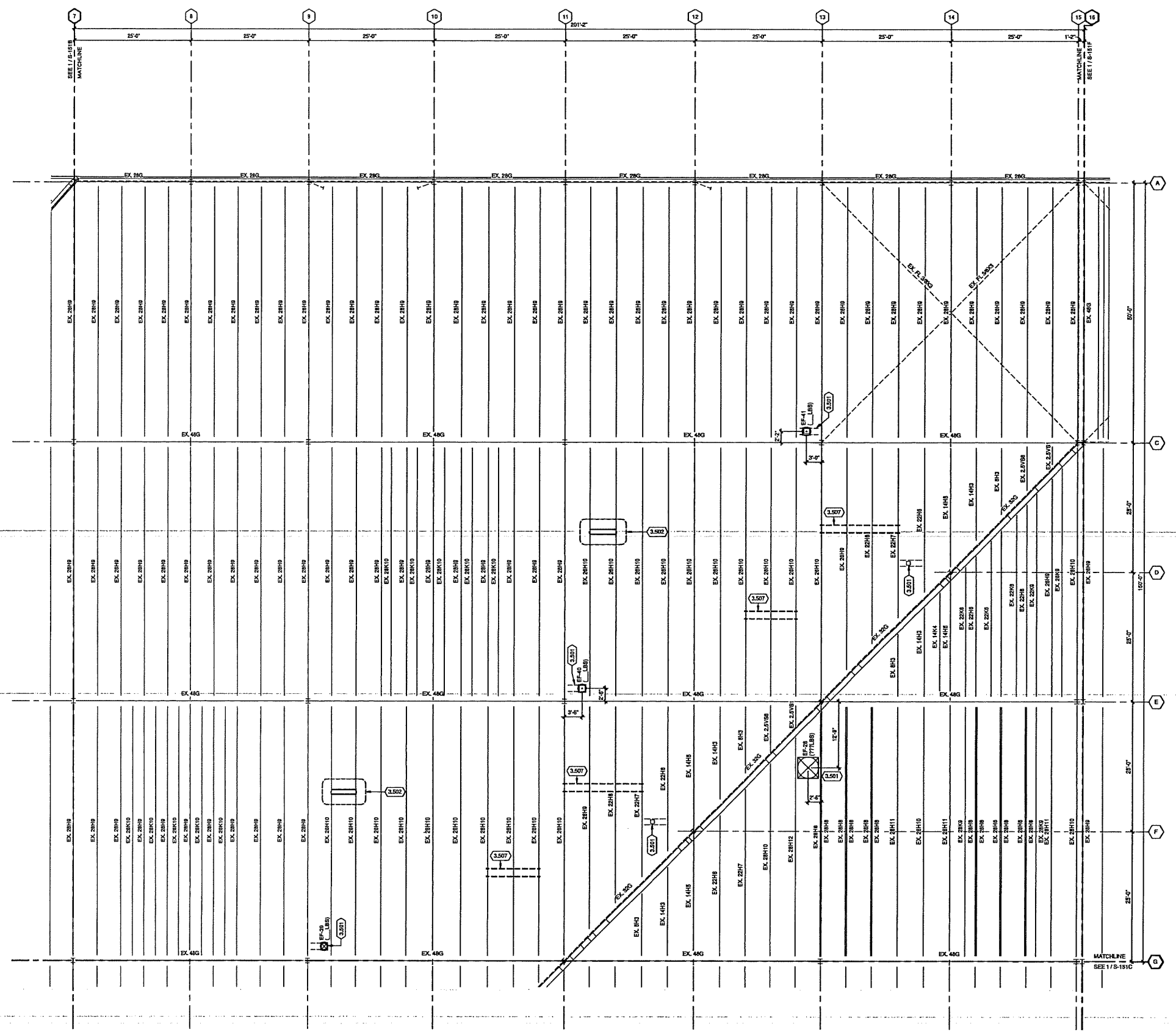
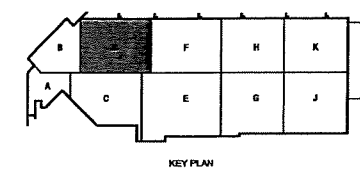
SHEET NO:
S-151D

ROOF FRAMING PLAN GENERAL NOTES:

- REFERENCE G-200 THROUGH G-200 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DIV 2 REQUIREMENTS.
- REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING/SEQUENCING AND SITE ACCESS.
- REFERENCE Q-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
- REFER TO SHEETS S-541 AND S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - A. AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "K2" SERIES - MINIMUM 4"
 - B. AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "K2" SERIES - MINIMUM 2 1/2"
- ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER-JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
- BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-551. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
- REINFORCING JOIST GRIDDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GRIDDERS AND INSTALLING SISTER JOIST.
- CUT BRIDGES AND BRACINGS TO INSTALL NEW JOIST. REINSTALL BRIDGING AND BRACING TO ORIGINAL CONDITIONS OR MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
- BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. PILE BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED ON-SITE.
- NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
- FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTIONS TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
- PLACEMENT OF BALLAST SHALL NOT EXCEED 12PSF.
- VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
- DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF "Z". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2" UP BESE. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

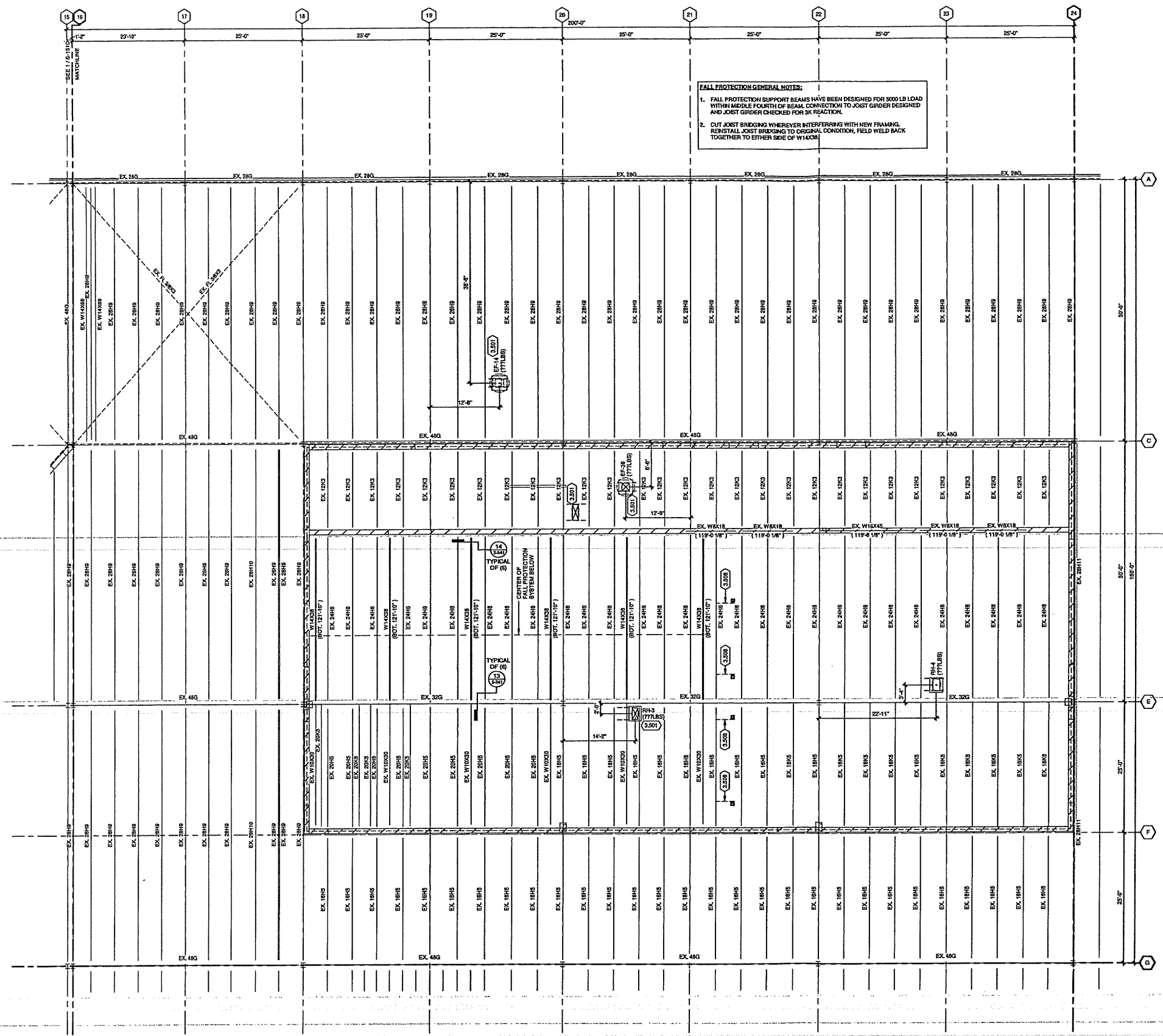
KEYED NOTES

- NEW FRAMED ROOF OPENING. REFER TO DETAIL 6S-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- NEW SUPPORT FRAMING FOR DESTRATIFICATION FAN. REFER TO DETAIL 7S-551. COORDINATE FINAL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN-FIELD CONDITIONS.
- HOSE REEL SUSPENSION FRAMING. SEE DETAILS ON SHEET S-541.



TRUE PLAN NORTH NORTH
1 ROOF FRAMING PLAN - AREA D
 1/8" = 1'-0"

4/8/2021 5:41:18 PM C:\w-a\Local\10088\03-S-200-Area_D.mxd



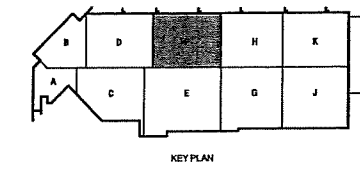
FALL PROTECTION GENERAL NOTES:

- FALL PROTECTION SUPPORT BEAMS HAVE BEEN DESIGNED FOR 5000 LB LOAD WITH MIDDLE FOURTH OF BEAM CONNECTION TO JOIST GIRDER DESIGNED AND JOIST GIRDER CHECKED FOR 3X REACTION.
- CUT JOIST BRIDGING WHEREVER INTERFERING WITH NEW FRAMING. REINSTALL JOIST BRIDGING TO ORIGINAL CONDITION, FIELD WELD BACK TOGETHER TO EITHER SIDE OF W/4038.

- ROOF FRAMING PLAN GENERAL NOTES:**
- REFERENCE G-020 THROUGH G-030 SHEETS FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1 DRY 2 REQUIREMENTS.
 - REFERENCE SHEET G-101 PHASING PLAN FOR CONSTRUCTION PHASING SEQUENCING AND SITE ACCESS.
 - REFERENCE G-SHEETS FOR EQUIPMENT COORDINATION AND EXCAVATION REQUIREMENTS.
 - SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
 - FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
 - REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
 - REFER TO SHEET S-010 FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
 - REFER TO SHEETS S-041 AND S-051 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
 - AT MASONRY WALLS
 - "K" SERIES - MINIMUM 4"
 - "KCS" SERIES - MINIMUM 4"
 - AT STEEL BEAMS
 - "K" SERIES - MINIMUM 2 1/2"
 - "KCS" SERIES - MINIMUM 2 1/2"
 - ALL NEW JOISTS SHALL BE DESIGNED AND SUPPLIED WITH AT LEAST ONE MOMENT SPLICE. CONTRACTOR SHALL PROVIDE ADDITIONAL MOMENT SPLICES TO INSTALL SISTER-JOIST AMONG EXISTING UTILITIES OR OTHER OBSTRUCTIONS. MOMENT SPLICES SHALL BE DESIGNED AND STAMPED BY PROFESSIONAL ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REINSTALL ANYTHING IN THE WAY OF THE INSTALLATION OF NEW JOISTS. MOMENT CONNECTIONS MUST BE SHOP FABRICATED.
 - BRACE NEW JOISTS AT FIFTH POINTS PER DETAIL 10S-551. NEW JOISTS SHALL BE DESIGNED FOR TOP CHORD BRACING AT THESE POINTS ONLY.
 - REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST MUST BE DONE WITH NO LOAD ON ROOF. REMOVE BALLAST, SNOW, ICE AND WATER BEFORE REINFORCING JOIST GIRDERS AND INSTALLING SISTER JOIST.
 - CUT BRIDGING AND BRACING TO INSTALL NEW JOIST. REINSTALL BRIDGING AND BRACING TO ORIGINAL CONDITIONS OR 5/8" MINIMUM REQUIREMENTS WHICHEVER IS GREATER.
 - BALLAST REMOVED MAY NOT BE PLACED ON OTHER AREAS OF ROOF. FILL BALLAST ON GROUND, AT LOCATION ON SITE, TO BE DETERMINED OWNER.
 - NEW JOISTS DO NOT NEED TO BE DESIGNED FOR UPLIFT FORCE.
 - FABRICATE JOIST WITH ZERO CAMBER. PROVIDE SHIMS IN SPLICE CONNECTION(S) TO ADJUST NEW JOIST TO EXISTING DECK SURFACE.
 - PLACEMENT OF BALLAST SHALL NOT EXCEED 12PSF.
 - VERIFY STEEL LAYOUT AND FIT UP WITH ALL NEW ROOF TOP UNITS.
 - DESIGN AND SUPPLY NEW JOIST WITH SEAT DEPTH OF 2". FIELD VERIFY THAT EXISTING JOIST SEATS ARE 2" DEEP. PROVIDE AND INSTALL SHIMS UNDER NEW JOIST SEATS TO PUSH JOIST UP TIGHT TO UNDERSIDE OF EXISTING ROOF DECK.

- KEYED NOTES**
- NEW FRAMED ROOF OPENING. REFER TO DETAIL G/S-551. COORDINATE PANEL SIZE AND LOCATION WITH EQUIPMENT SUPPLIER AND IN FIELD CONDITIONS.
 - 12X20X18 BRACE TO TOP OF HSS JAMB COLUMN. ATTACH TO ROOF DECK WITH (2) #12 SCREWS, FIELD FILLET WELD TO HSS COLUMN. SEE SHEET S-131F FOR SIZE AND LOCATION OF JAMB COLUMN.

ALTERNATE NO. 1
SEE SPECIFICATION 012300 - ALTERNATES AND DRAWING G131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES A BATHROOM/LOCKER ROOM, A MAIN ENTRY BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.



TRUE PLAN NORTH NORTH
1 ROOF FRAMING PLAN - AREA F
1/8" = 1'-0"

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
Phone: 608-273-6380
meadhunt.com



**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS**
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/02/21 BID SET

CONTRACT NO.: 8981
MATH NO.: 4502000-100996.03
DATE: APRIL 8, 2021
DESIGNED BY: DJC
DRAWN BY: NJB / MJE
CHECKED BY: DRM
E0 SCALE DRAWINGS

SHEET CONTENTS:
ROOF FRAMING
PLAN - AREA F

SHEET NO.:
S-151F

0.216 msc

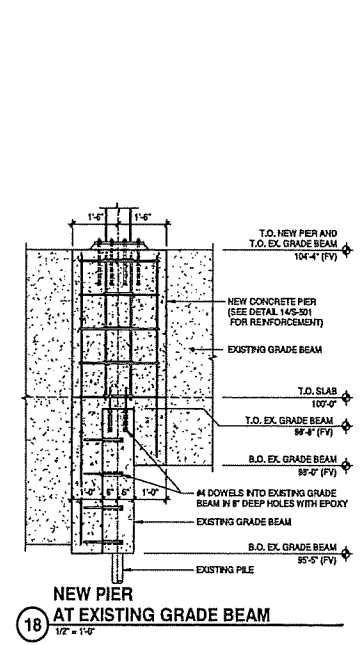
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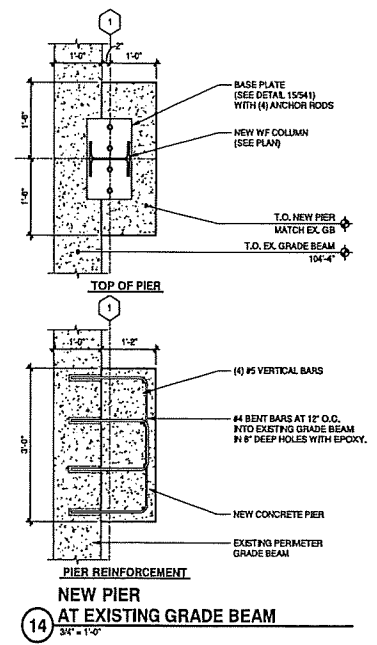
CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

CONTRACT NO. 8881
 DRAWING NO. 450000-10006L020
 DATE: APRIL 8, 2021
 DESIGNED BY: D/C
 DRAWN BY: HJB / MJE
 CHECKED BY: DRM
 SHEET CONTAINS FOUNDATION DETAILS

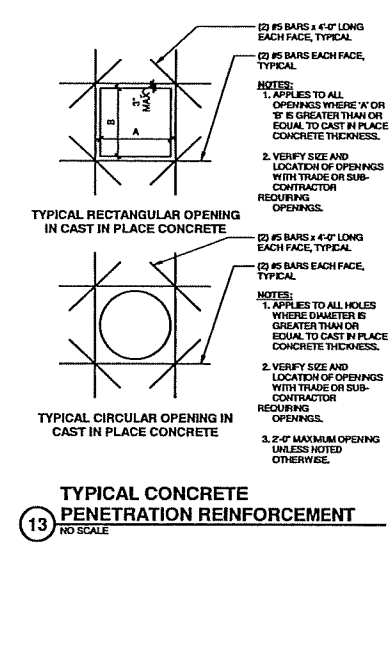
ORIGINAL



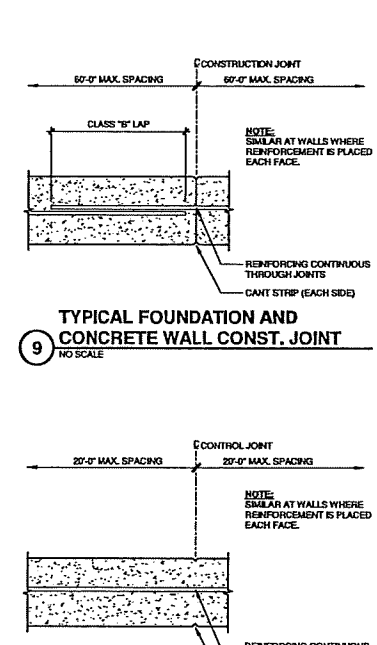
18 NEW PIER AT EXISTING GRADE BEAM
1/2" = 1'-0"



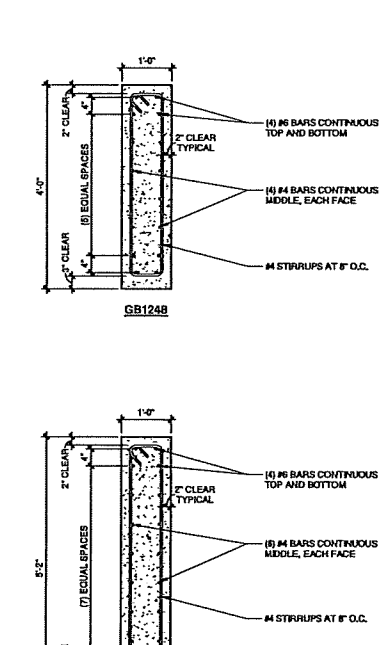
14 PIER REINFORCEMENT NEW PIER AT EXISTING GRADE BEAM
3/4" = 1'-0"



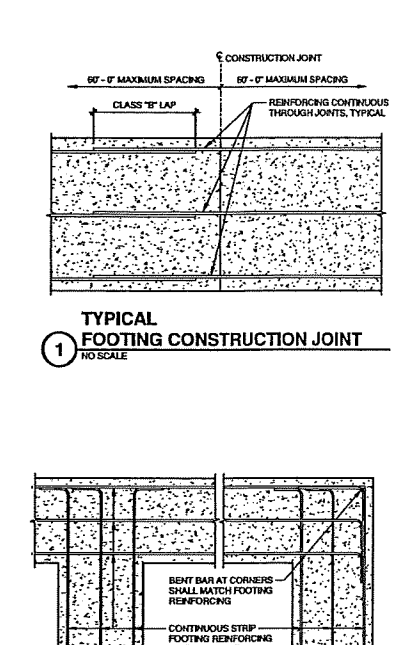
13 TYPICAL CONCRETE PENETRATION REINFORCEMENT
NO SCALE



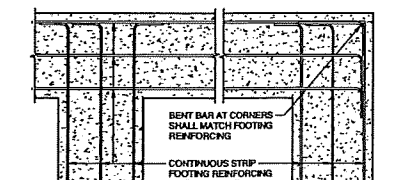
9 TYPICAL FOUNDATION AND CONCRETE WALL CONST. JOINT
NO SCALE



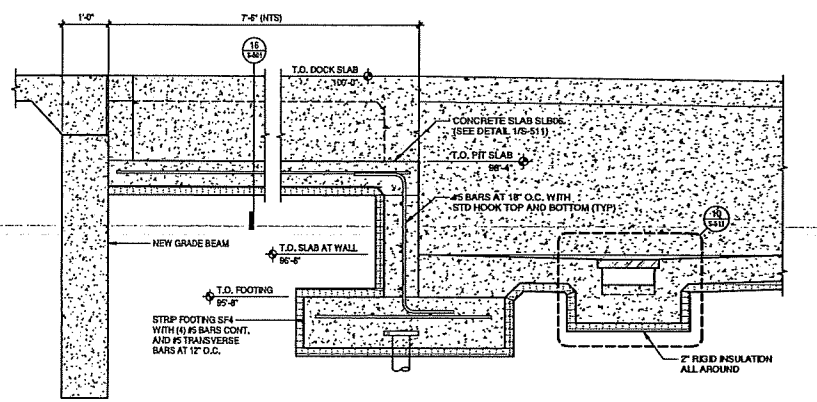
10 TYPICAL FOUNDATION AND CONCRETE WALL CONTROL JOINT
NO SCALE



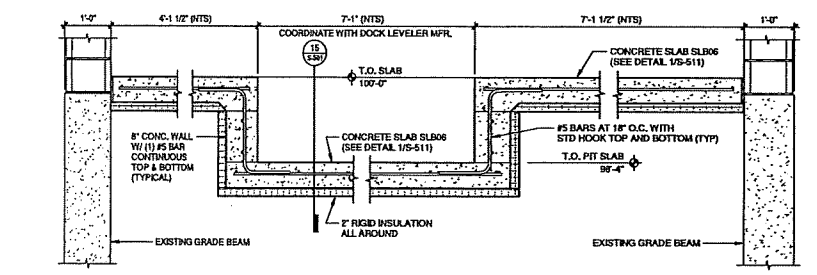
1 TYPICAL FOOTING CONSTRUCTION JOINT
NO SCALE



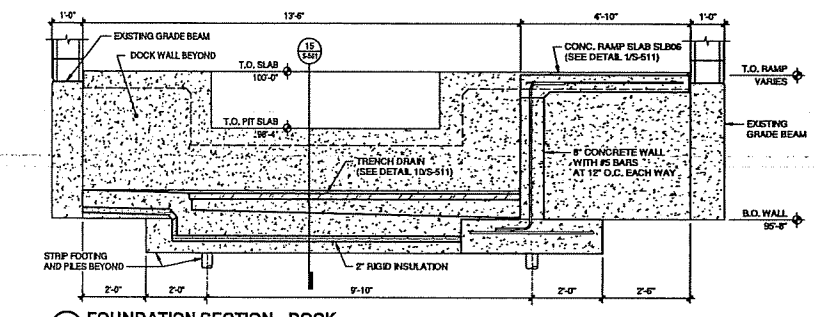
2 TYPICAL FOOTING INTERSECTIONS
NO SCALE



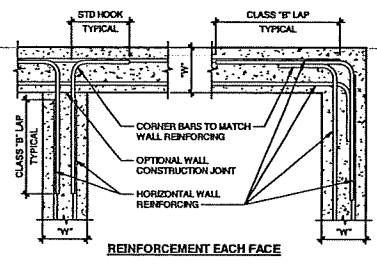
15 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



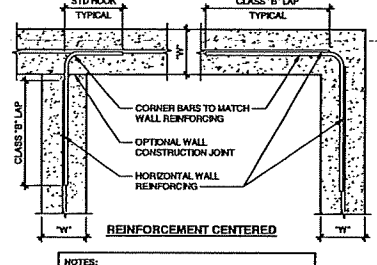
16 FOUNDATION SECTION - DOCK LEVELER
3/4" = 1'-0"



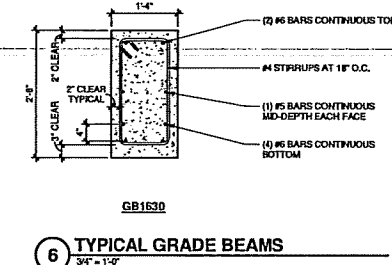
17 FOUNDATION SECTION - DOCK
1/2" = 1'-0"



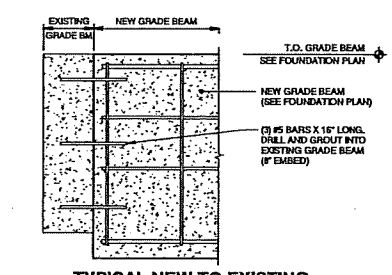
11 TYPICAL FOUNDATION WALL INTERSECTIONS
NO SCALE



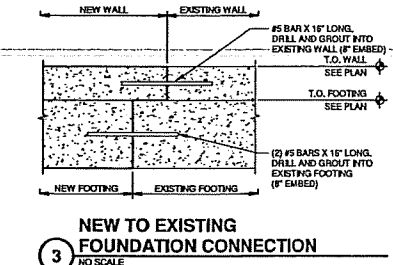
12 GRADE BEAM/FOUNDATION WALL PENETRATION
NO SCALE



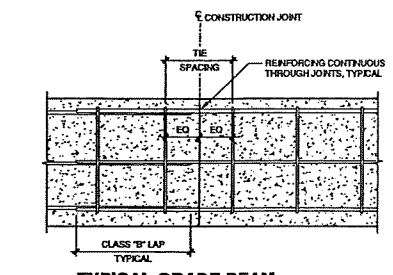
6 TYPICAL GRADE BEAMS
3/4" = 1'-0"



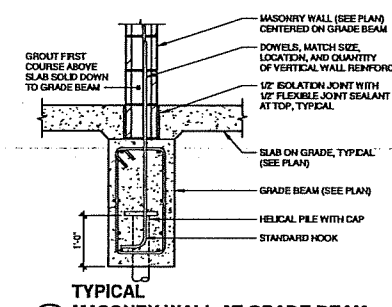
7 TYPICAL NEW TO EXISTING GRADE BEAM CONNECTION
NO SCALE



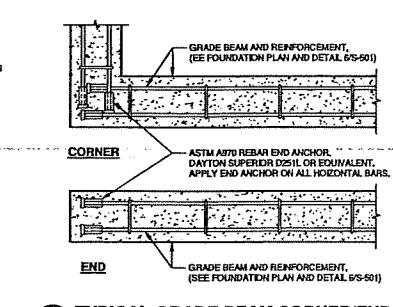
3 NEW TO EXISTING FOUNDATION CONNECTION
NO SCALE



4 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE



8 TYPICAL MASONRY WALL AT GRADE BEAM
3/4" = 1'-0"



5 TYPICAL GRADE BEAM CORNER/END
NO SCALE

04/08/21 8:54:03 PM C:\Users\lsmith\Documents\2021-05-05\2021_Annex_metro\mead@meadandhunt.com\101



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

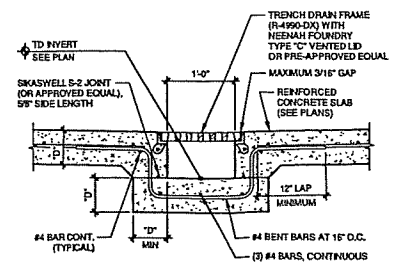
DATE: 04/06/21 BID SET

CONTRACT NO: 8581
 DRAWING NO: 4503500-190896.03
 DATE: APRIL 8, 2021
 DESIGNED BY: DJS
 DRAWN BY: NJB / MJE
 CHECKED BY: DRM
 DO NOT SCALE DRAWINGS

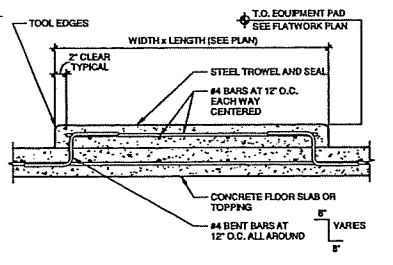
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 SHEET CONTENTS
 FLATWORK DETAILS

S-511

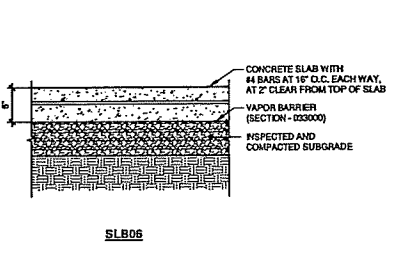
2/26/21 MJC



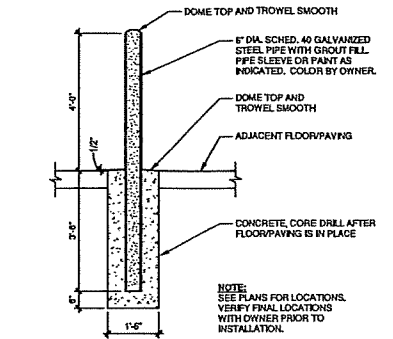
10 CONCRETE TRENCH DRAIN
NO SCALE



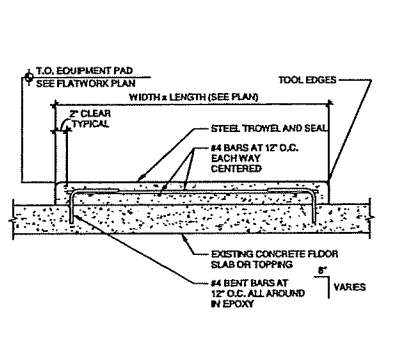
5 EQUIPMENT PADS
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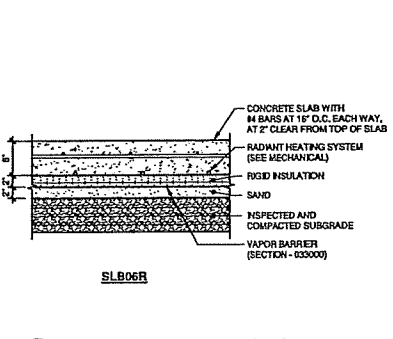
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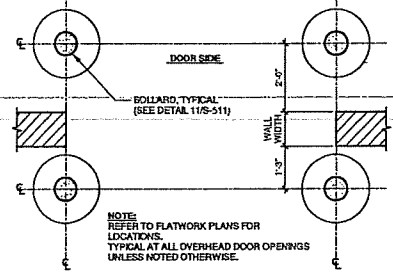
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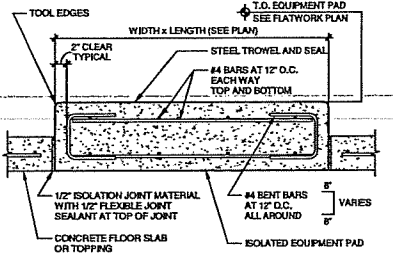
6 EQUIPMENT PADS AT EXISTING
NO SCALE



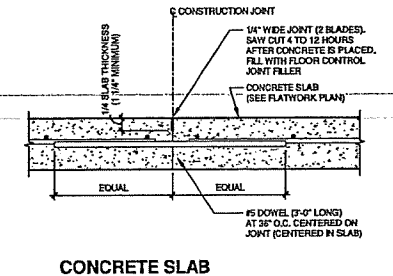
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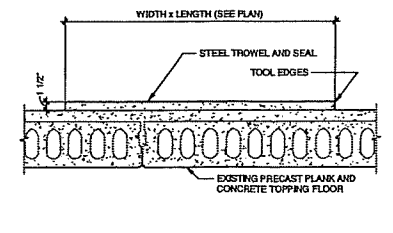
12 BOLLARD LOCATION PLAN
1/2\"/>



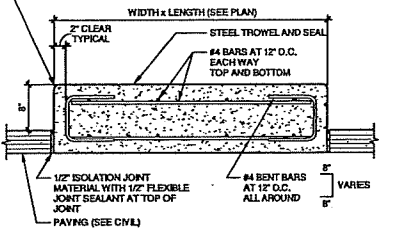
7 ISOLATED EQUIPMENT PADS
NO SCALE



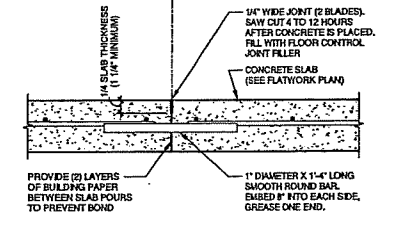
2 CONCRETE SLAB CONSTRUCTION CONTROL JOINT (TYPICAL)
NO SCALE



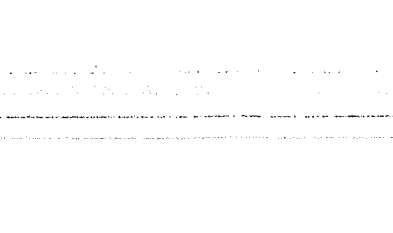
13 EQUIPMENT PADS AT EXISTING MEZZANINE
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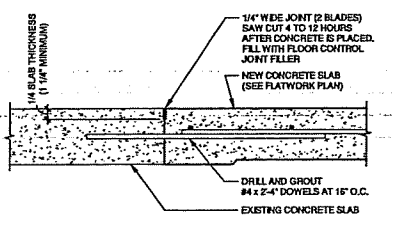
8 EXTERIOR EQUIPMENT PAD
NO SCALE



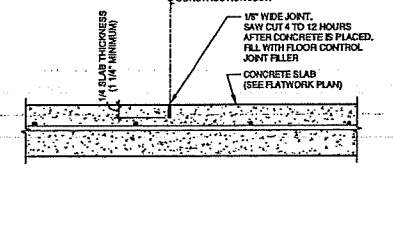
3 CONCRETE SLAB CONSTRUCTION CONTROL JOINT 'CCJ' (TYPICAL)
NO SCALE



9 NEW SLAB AT EXISTING
NO SCALE

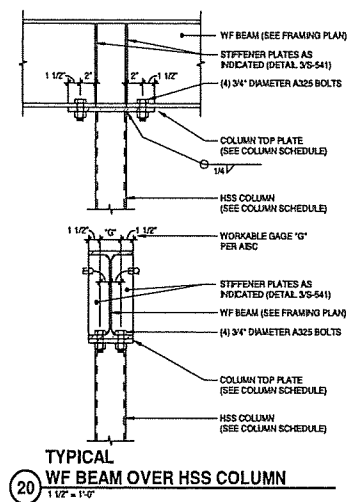


4 CONCRETE SLAB CONSTRUCTION CONTROL JOINT 'CJ' (TYPICAL)
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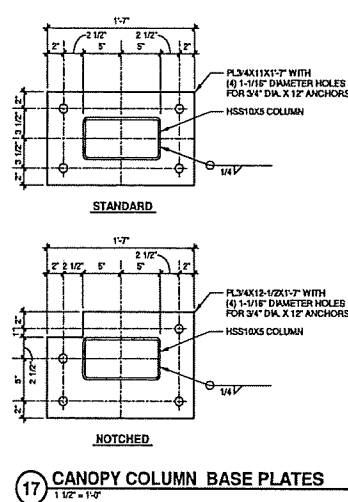


1 STRUCTURAL SLAB TYPES
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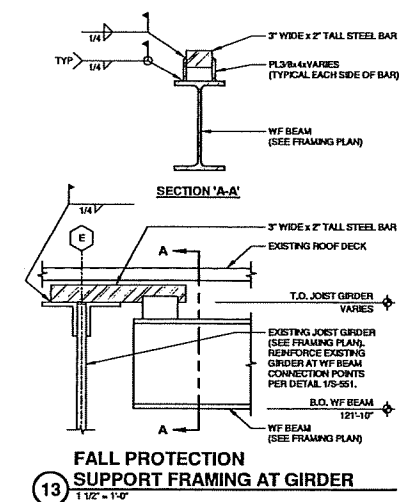
PROJECT: E53-C07 PM C:\pwworking\meadandhunt.com\pwworking\meadandhunt.com



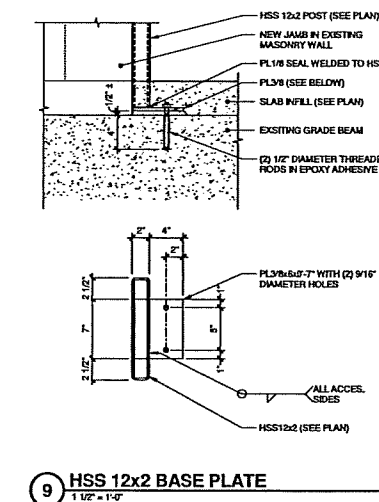
20 TYPICAL WF BEAM OVER HSS COLUMN
1 1/2" = 1'-0"



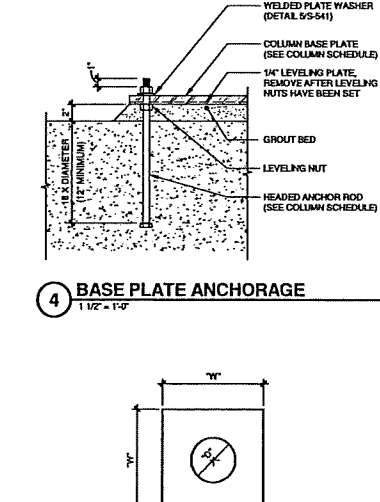
17 CANOPY COLUMN BASE PLATES
1 1/2" = 1'-0"



13 FALL PROTECTION SUPPORT FRAMING AT GIRDER
1 1/2" = 1'-0"



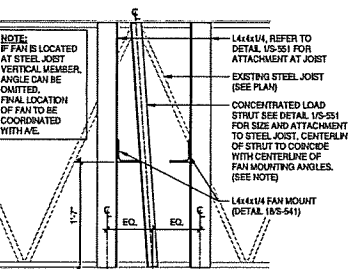
9 HSS 12x2 BASE PLATE
1 1/2" = 1'-0"



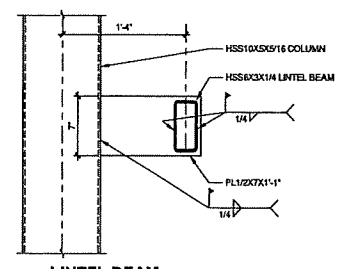
4 BASE PLATE ANCHORAGE
1 1/2" = 1'-0"

SINGLE PLATE SHEAR CONNECTION		
NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS (N)	LENGTH OF ANGLE
W30	10	25 1/2"
W24	8	20 1/2"
W20	7	20 1/2"
W16	6	17 1/2"
W12	5	14 1/2"
W10	4	11 1/2"
W8	3	8 1/2"
W6	2	5 1/2"

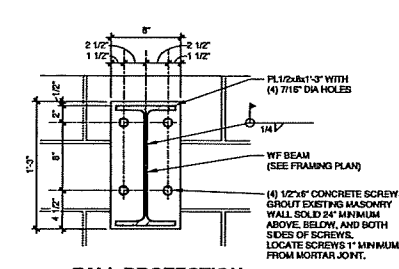
- SINGLE PLATE SHEAR CONNECTION NOTES**
- ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED OR NOTED OTHERWISE.
 - STANDARD HOLES OR HORIZONTAL SHORT SLOT HOLES MAY BE UTILIZED AT CONTRACTOR'S OPTION IN EITHER THE CONNECTION ANGLE OR THE FRAMING MEMBERS.
 - WELD "A" MAY BE USED IN LIEU OF "A" SIDE BOLTS AT CONTRACTOR'S OPTION. WELD SHALL BE ON ALL 3 SIDES.
 - FOR MISS-ALIGNED BOLT HOLES, PROVIDE FIELD WELDS. NOTIFY THE ARCHITECT/ENGINEER OF LOCATIONS USING FIELD WELDED CONNECTION.
 - REFER TO TYPICAL COPING DETAIL 95-541 FOR CONNECTIONS WHERE COPING IS REQUIRED.
 - THIS DETAIL IS NOT INTENDED FOR EVERY WF SECTION. CHECK RIDING THE FILLET AND COPE DEPTH PRIOR TO FABRICATION.



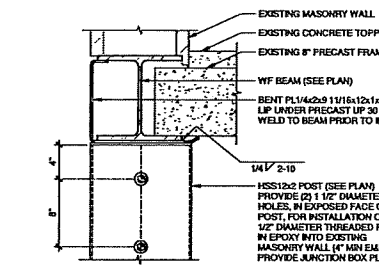
21 "NESTED" FAN CONNECTION
1 1/2" = 1'-0"



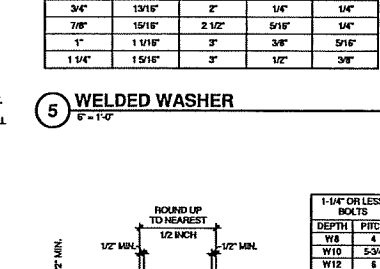
18 LINTEL BEAM CONNECTIONS TO COLUMN
1 1/2" = 1'-0"



14 FALL PROTECTION SUPPORT FRAMING AT MASONRY
1 1/2" = 1'-0"

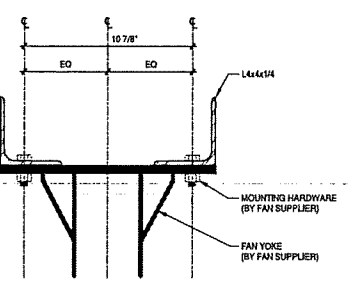


10 W10 AT EXISTING PRECAST
1 1/2" = 1'-0"



5 WELDED WASHER
6" = 1'-0"

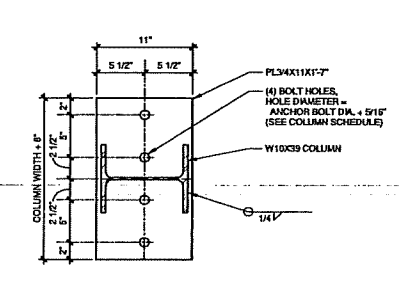
1 TYPICAL SINGLE PLATE SHEAR FRAMING CONNECTION
1" = 1'-0"



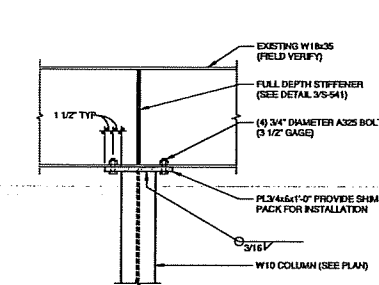
B FAN YOKE TO ANGLE CONNECTION
3" = 1'-0"



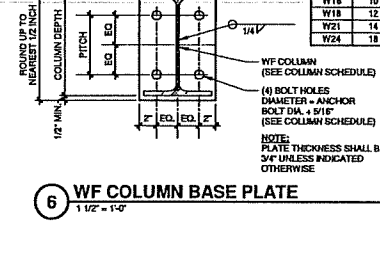
11 W10 AT EXISTING W18x35
1" = 1'-0"



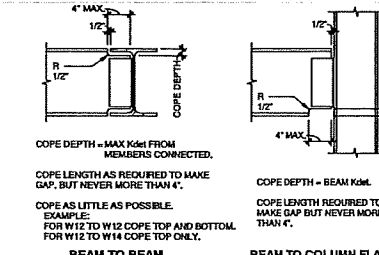
15 W10x39 BASE PLATE
1 1/2" = 1'-0"



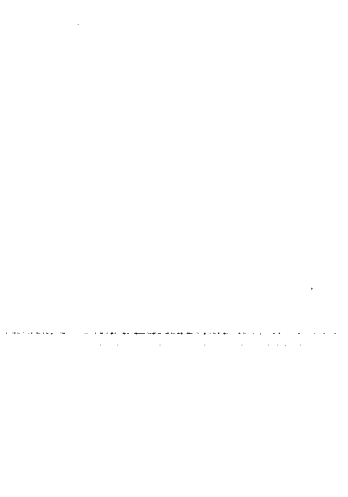
6 WF COLUMN BASE PLATE
1 1/2" = 1'-0"



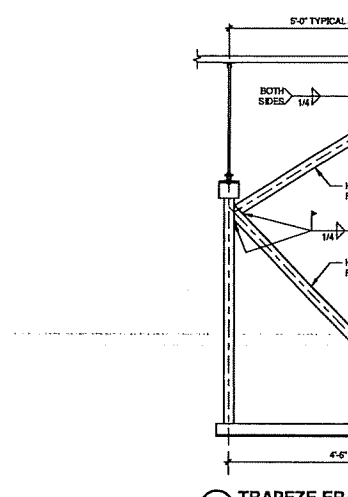
7 HSS COLUMN BASE PLATE
1 1/2" = 1'-0"



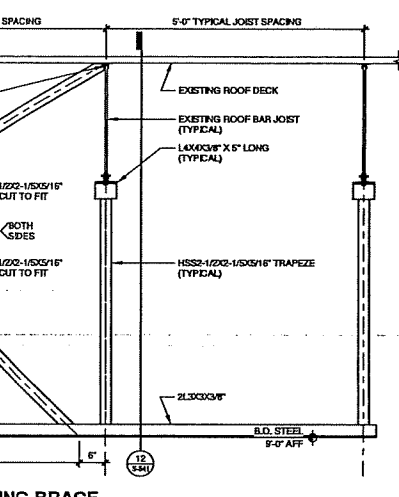
2 TYPICAL COPING DETAIL
1" = 1'-0"



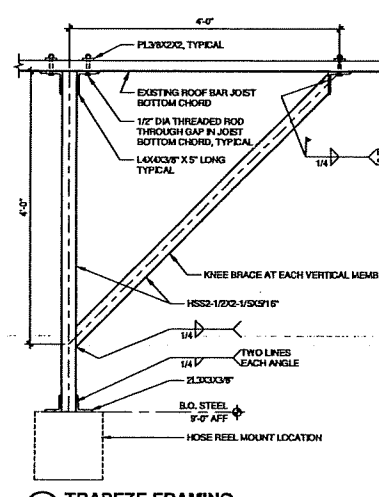
16 TRAPEZE FRAMING BRACE
3/4" = 1'-0"



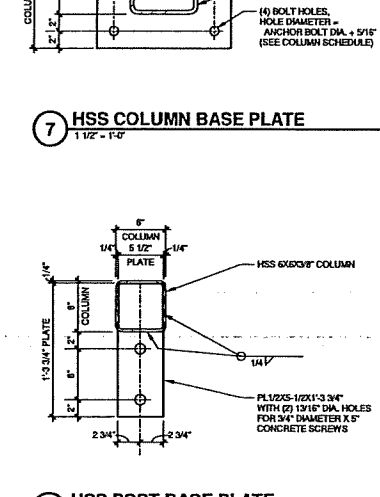
12 TRAPEZE FRAMING
1" = 1'-0"



8 HSS POST BASE PLATE
1 1/2" = 1'-0"



3 TYPICAL WF STIFFENER PLATE
1 1/2" = 1'-0"



1 TYPICAL SINGLE PLATE SHEAR FRAMING CONNECTION
1" = 1'-0"

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

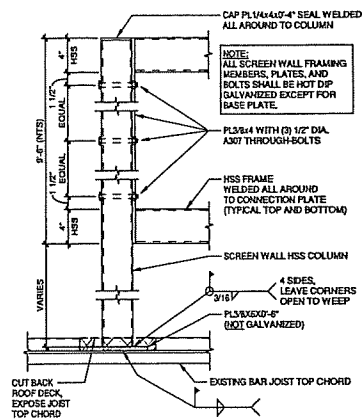


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1101 EAST WASHINGTON AVE.
MADISON, WI 53703

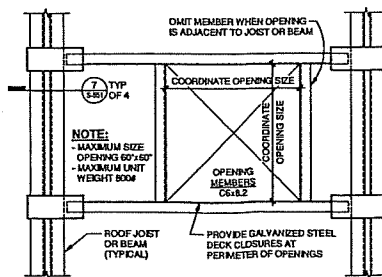
PROJECT NO: 040621 BID SET
DATE: APRIL 8, 2021
DRAWN BY: DXC
CHECKED BY: NAB / MAE
DESIGNED BY: DFM
FRAMING DETAILS

S-541

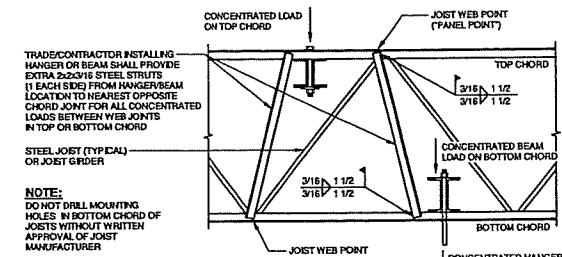
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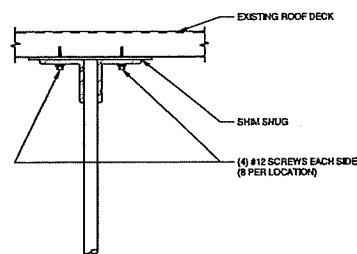
14 SCREEN WALL POST CONNECTIONS
1/2" = 1'-0"



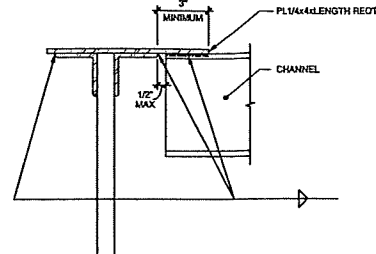
6 TYPICAL FRAMED ROOF OPENING
1" = 1'-0"



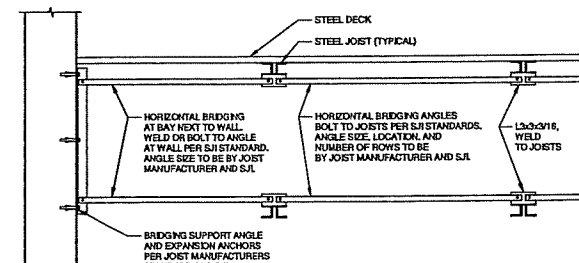
1 TYPICAL PROVISIONS AT CONCENTRATED LOADS ON OPEN WEB STEEL JOIST/GIRDERS
3/4" = 1'-0"



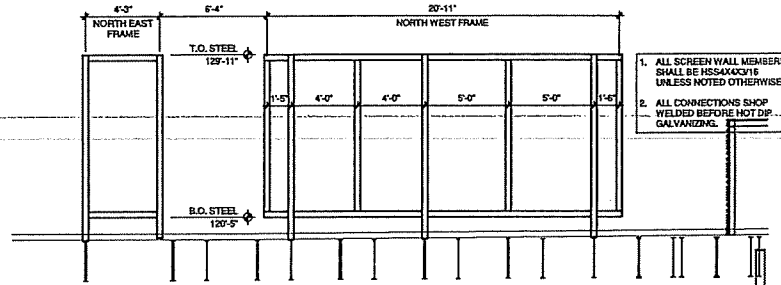
10 JOIST TO DECK CONNECTION
3" = 1'-0"



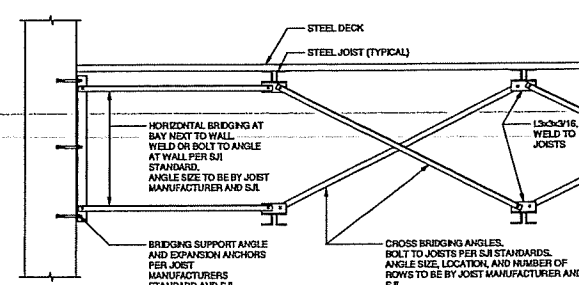
7 CHANNEL TO JOIST CONNECTION
3" = 1'-0"



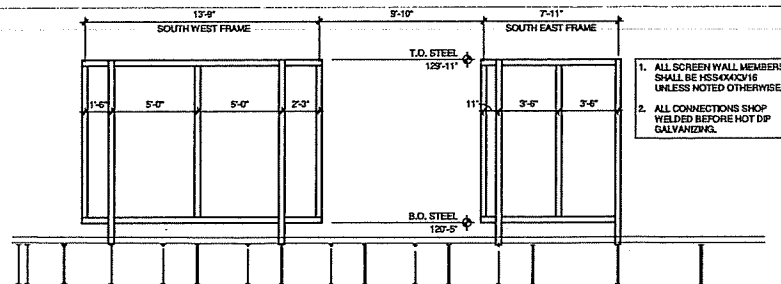
2 HORIZONTAL JOIST BRIDGING AT WALL
3/4" = 1'-0"



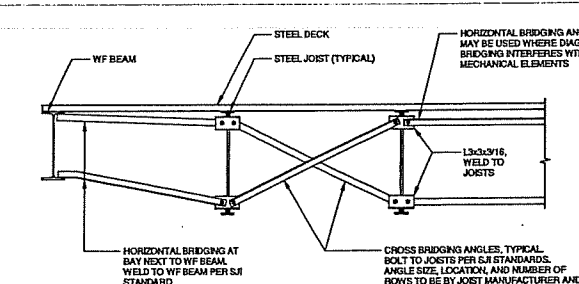
11 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING SOUTH)
1/4" = 1'-0"



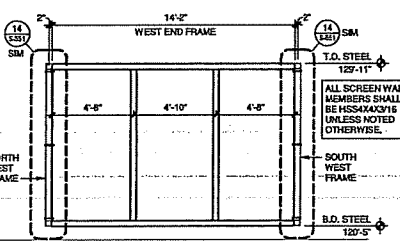
3 DIAGONAL JOIST BRIDGING AT WALL
3/4" = 1'-0"



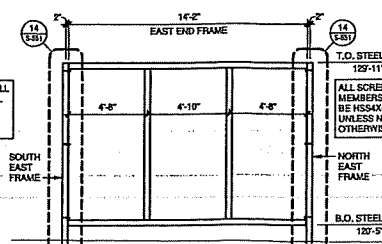
12 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING NORTH)
1/4" = 1'-0"



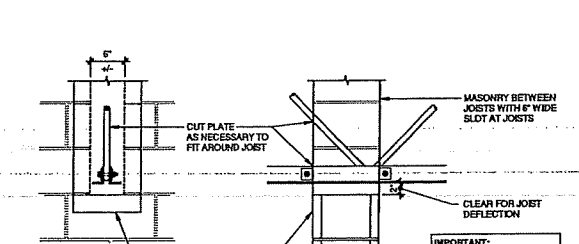
4 JOIST BRIDGING AT WF BEAM
3/4" = 1'-0"



13 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING EAST)
1/4" = 1'-0"



8 MAU4 SCREEN WALL FRAMING ELEVATION (LOOKING WEST)
1/4" = 1'-0"



5 JOIST DEFLECTION PROVISIONS AT NON-LOAD BEARING MASONRY, TYPICAL
1" = 1'-0"



ORIGINAL

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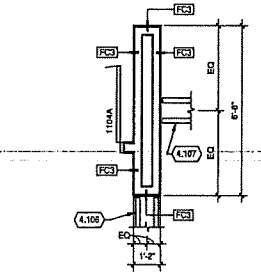
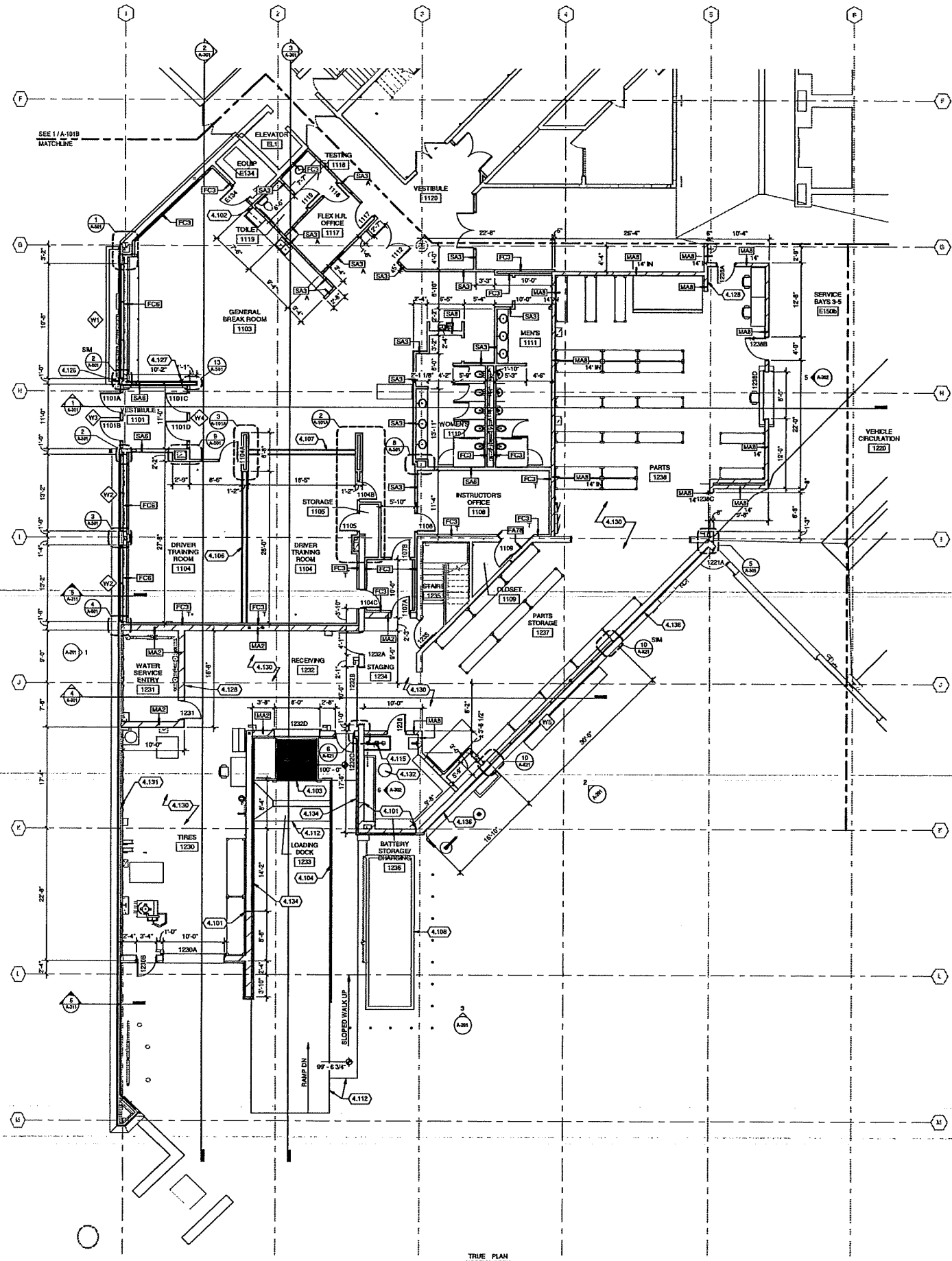
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FLOOR PLAN GENERAL NOTES:

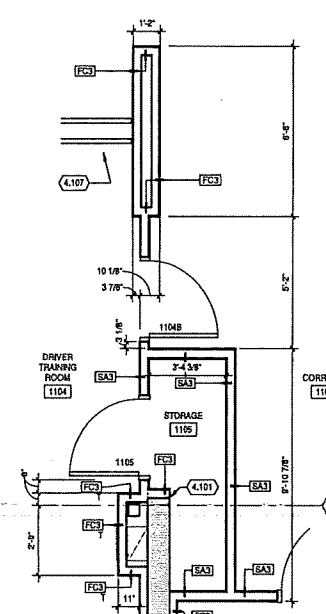
1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN - 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARD OR CMU), UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-020 THROUGH G-100 FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1, DIV 2 REQUIREMENTS.
6. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILING, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. GENERAL CONTRACTOR SHALL PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, STIFFENERS, BRACINGS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES. TYPICAL. PROVIDE ARDEX OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.
11. RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
12. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
13. REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TAGS NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
14. REFERENCE SHEET I-100'S FOR FURNITURE LAYOUTS AND COORDINATION REQUIREMENTS.
15. REFERENCE SHEET O-100'S FOR EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.
16. REFERENCE G-101 FOR CONSTRUCTION STAGING AND SEQUENCING PHASING REQUIREMENTS.

KEYED NOTES

- 4.101 ALIGN FACE OF WALL WITH EXISTING
- 4.102 ALIGN STUD FACE WITH FACE OF EXISTING CMU WALL
- 4.103 PROVIDE DOCK LEVELER
- 4.104 PROVIDE GUARDRAIL AT LOADING DOCK AREA - SEE DETAIL 18A-501
- 4.106 VERTICAL LIFT MOVABLE PARTITION - 28'-0" W X 11'-6" H
- 4.107 VERTICAL LIFT MOVABLE PARTITION - 18'-6" W X 11'-6" H
- 4.108 ELECTRICAL GENERATOR AND PAD - SEE ELECTRICAL
- 4.112 SLOPED LOADING DOCK AREA PAVEMENT, TRENCH DRAIN AND SIDEWALL - SEE STRUCTURAL
- 4.115 EYE AND SHOWER WASH, SEE PLUMBING DRAWINGS
- 4.126 PROVIDE FIRE DEPARTMENT ACCESS KNOX BOX
- 4.127 PROVIDE FIRE EXTINGUISHER AND RECESSED FE CABINET
- 4.128 PROVIDE FIRE EXTINGUISHER
- 4.130 PROVIDE MAINTENANCE PAINT PREPARATION WITH HIGH PRESSURE CRYOGENIC LIQUID-NITROGEN JET CLEANING FOR REMOVAL OF EXHAUST SOOT AT EXISTING WALLS, CEILING, AND COMPONENTS THAT ARE LEFT EXPOSED OR REQUIRING PAINT.
- 4.131 REINSTALL SALVAGED INTERIOR METAL WALL PANELS
- 4.132 CONTAINMENT PIT CAP - REF STRUCTURAL
- 4.134 PROVIDE METAL WALL PANEL (MWP) ON 2" FURRING WITH 2" RIGID INSULATION AND 1" AIR SPACE, AND A FLUID APPLIED MEMBRANE AIR BARRIER OVER EXISTING CMU
- 4.136 PROVIDE METAL WALL PANEL (MWP) AS NOTED ON 8" HAT CHANNEL ATTACHED TO EXISTING CMU WALL

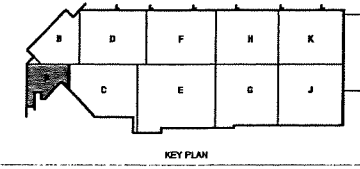


TRUE PLAN NORTH/NORTH
ENLARGED PLAN DETAIL
3
3/8" = 1'-0"



TRUE PLAN NORTH/NORTH
ENLARGED PLAN DETAIL AT STORAGE 1105
2
3/8" = 1'-0"

TRUE PLAN NORTH/NORTH
FIRST FLOOR PLAN - AREA A
1
1/8" = 1'-0"



KEY PLAN

Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Madison, WI 53762
phone: 608-273-6380
meadhunt.com

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CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703

04/09/21 BID SET

CONTRACT NO. 1851
PROJECT NO. 4552000-130099.03
DATE: APRIL 8, 2021
DESIGNED BY: SZK
DRAWN BY: NJD, DJM
CHECKED BY: RICL, REK
SCALE: 3/8" = 1'-0"

FIRST FLOOR PLAN - AREA A

A-101A

07/20/21 12:58:59 PM C:\pwork\120818\120818.dwg A:\120818\Area_A_120818.dwg

DRGINK

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**CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

04/06/21 BID SET

CONTRACT NO: 5581
MUN. PROJ. NO: 4503500-100956.00
DATE: APRIL 8, 2021
DESIGNED BY: SCX
DRAWN BY: NJD, DJM
CHECKED BY: RCL, REK
DO NOT SCALE DRAWINGS

SHEET CONTAINS
SECOND FLOOR
PLAN - AREA F

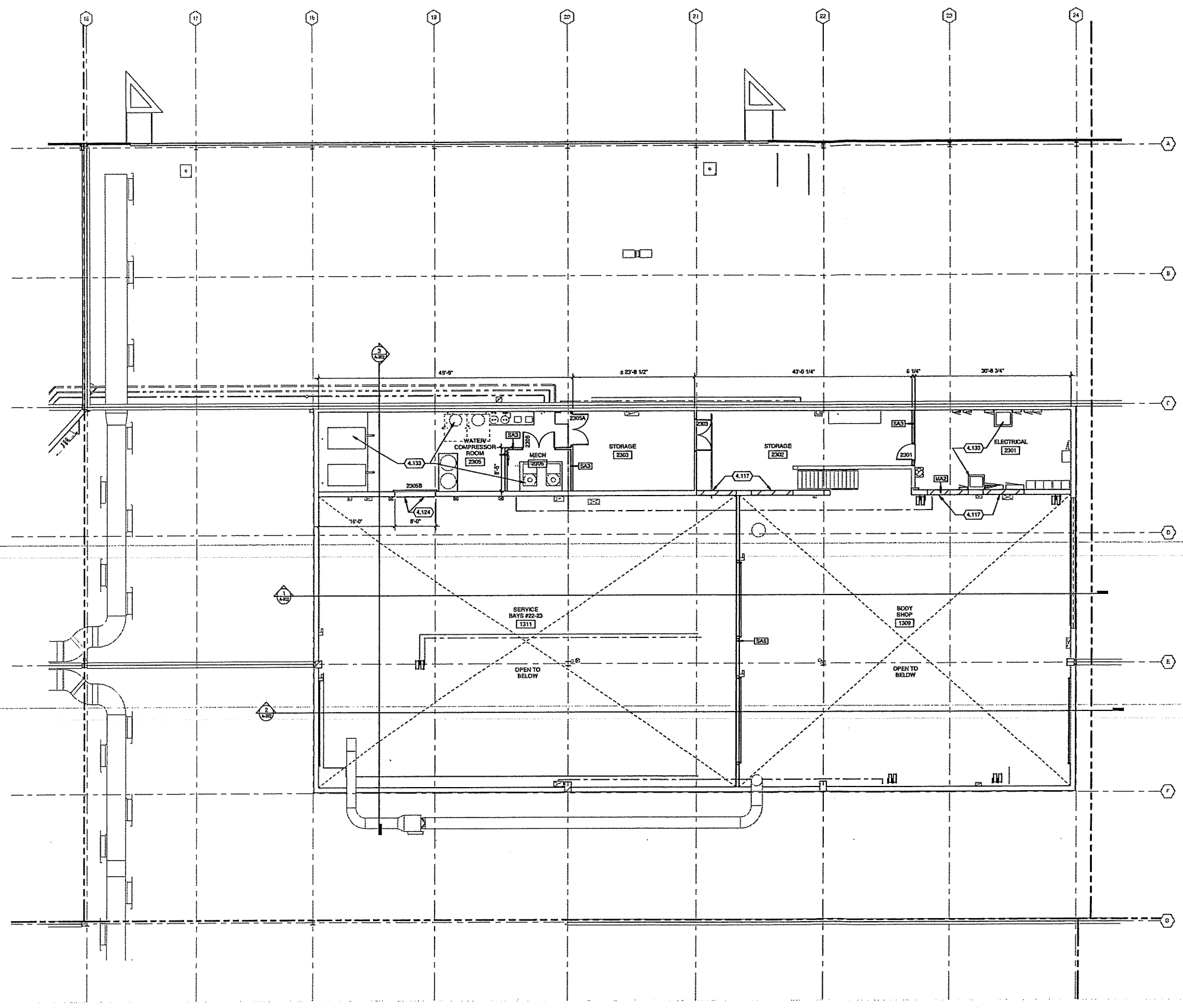
SHEET NO:
A-102F

FLOOR PLAN GENERAL NOTES:

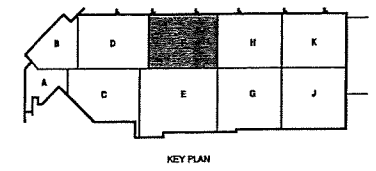
1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN = 107'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY DIMENSIONS, BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. INTERIOR DIMENSIONS ARE FROM FINISH FACE OF WALLS (I.E. GYPSUM WALLBOARDS OR CMU), UNLESS NOTED OTHERWISE.
4. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
5. REFERENCE SHEET G-020 THROUGH G-030 FOR LIFE SAFETY CODE, WALL/FLOOR RATINGS, AND CLASS 1, DIV 2 REQUIREMENTS.
6. GENERAL CONTRACTOR SHALL PATCH AND REPAIR EXISTING CONSTRUCTION (WALLS, DOORS, CEILING, FLOORS, ETC.) AS REQUIRED FROM DEMOLITION OR CONSTRUCTION TO ALLOW FOR THE PREP WORK AND NEW OR COMPLETION OF EXISTING FINISHES. REPAIRS OR REPLACEMENTS MUST BE DURABLE, SEAMLESS, AND MATCH THE EXISTING MATERIAL.
7. GENERAL CONTRACTOR SHALL PATCH FLOOR AND WALL PENETRATIONS CAUSED BY DEMOLITION OF MECHANICAL, ELECTRICAL, TECHNOLOGY, AND PLUMBING, INCLUDING BUT NOT LIMITED TO PIPING AND CONDUIT RUNS, IN A MANNER THAT IS CONSISTENT WITH THE EXISTING FLOOR AND WALL CONSTRUCTION AND FINISH. PENETRATIONS SHALL MEET REQUIRED FIRE RATINGS.
8. COORDINATE THE INSTALLATION OF OWNER-SUPPLIED EQUIPMENT, REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
9. GENERAL CONTRACTOR SHALL PROVIDE BLOCKING, STIFFENERS, BRACKETS, BACKING PLATES, SUPPORTING BRACKETS, AND NECESSARY SELECTIVE DEMOLITION REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
10. EXISTING AND INFILL CONCRETE SUB-FLOOR SHALL BE MADE LEVEL, PLUMB AND IN SOUND CONDITION AS REQUIRED FOR THE INSTALLATION OF FINAL FLOOR FINISHES, TYPICAL. PROVIDE AREA OR EQUAL LEVELING CONCRETE TO PROVIDE A SMOOTH WALKABLE AREA.
11. RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE RATED CONSTRUCTION.
12. SEE ENLARGED PLANS FOR NOTES, DIMENSIONS, AND WALL TYPES WITHIN THE DETAIL CALLOUT BOUNDARIES.
13. REFERENCE SHEET A-002 FOR INTERIOR PARTITION TYPES. INTERIOR PARTITION TYPES NOTED ENCOMPASS THE ENTIRE LENGTH OF WALL SHOWN TO CORNERS OF ROOM, OVER AND AROUND DOORWAYS SHOWN.
14. REFERENCE SHEET I-107S FOR FURNITURE LAYOUTS AND COORDINATION REQUIREMENTS.
15. REFERENCE SHEET Q-107S FOR EQUIPMENT LAYOUTS AND COORDINATION REQUIREMENTS.
16. REFERENCE G-101 FOR CONSTRUCTION STAGING AND SEQUENCING PHASING REQUIREMENTS.

KEYED NOTES

- 4.117 INFILL WALL OPENINGS TO MATCH ADJACENT FACES AND PAINT BOTH SIDES
- 4.120 NEW EQUIPMENT PAD, SEE STRUCTURAL DRAWINGS
- 4.124 PROVIDE STEEL GRATING PLATFORM WITH REMOVABLE RAILINGS
- 4.133 MEP EQUIPMENT, TYP

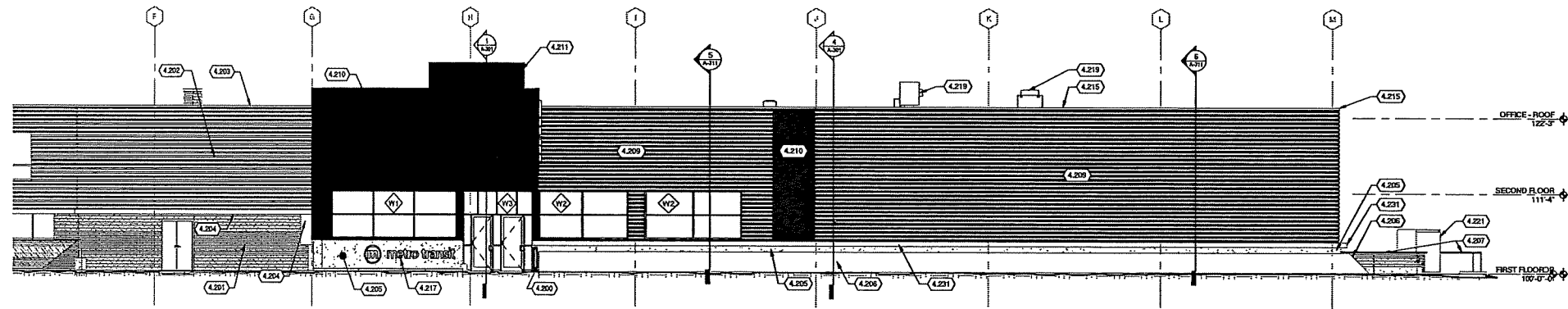


TRUE PLAN
NORTH NORTH
1 SECOND FLOOR PLAN - AREA F
1/8" = 1'-0"

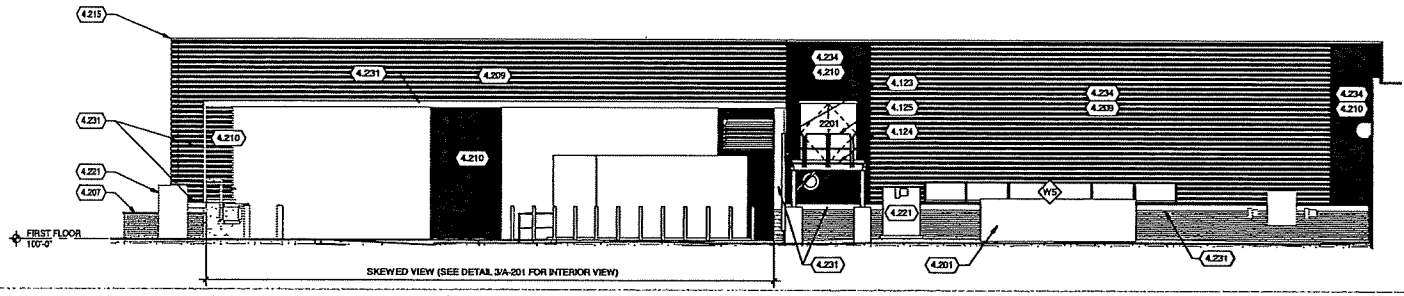


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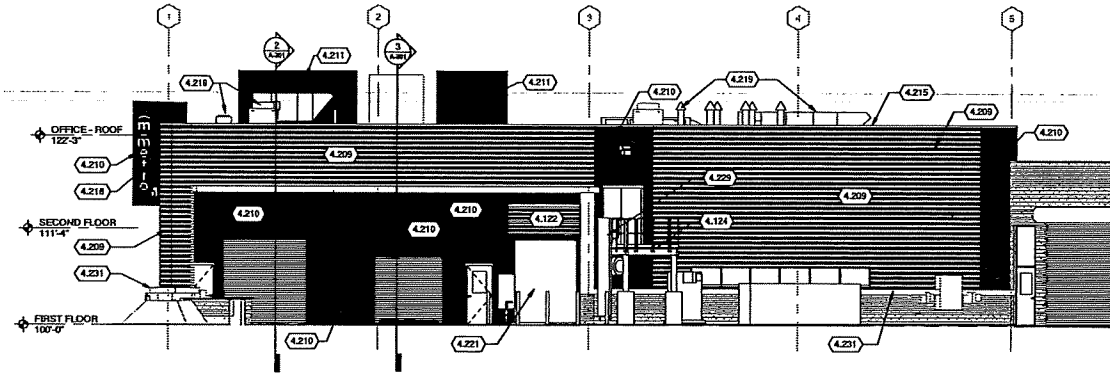
ORIGINAL



1 WEST BUILDING ELEVATION
 1/8" = 1'-0"



2 SOUTHEAST BUILDING ELEVATION
 1/8" = 1'-0"



3 SOUTH BUILDING ELEVATION
 1/8" = 1'-0"

KEYED NOTES

- 4.122 PROVIDE MECHANICAL LOUVER IN EXISTING OPENING. SEE MECHANICAL DRAWINGS
- 4.124 EGRESS LADDER WITH LADDER GUARD, PROVIDE LOCKING MECHANISM AT THE TOP PLATFORM
- 4.124 PROVIDE STEEL GRATING PLATFORM WITH REMOVABLE RAILINGS
- 4.125 REMOVABLE RAILING, SEE DETAIL 14 & 17A-201
- 4.200 ELEVATION NOTES
- 4.201 EXISTING BRICK, TO REMAIN
- 4.202 EXISTING METAL WALL PANEL TO REMAIN
- 4.203 EXISTING METAL WALL CAP TO REMAIN
- 4.204 EXISTING STEEL PLATE TO REMAIN
- 4.205 EXISTING CONCRETE GRADE BEAM TO REMAIN
- 4.206 EXISTING SLOPED CONCRETE, TO REMAIN
- 4.207 EXISTING SCREEN WALLS, TO REMAIN
- 4.209 METAL PANEL (MYP-1)
- 4.210 METAL PANEL (MYP-2)
- 4.211 SCREENWALL METAL PANEL (MYP-3)
- 4.216 PREFINISHED METAL CAP, COLOR TO MATCH MYP-2
- 4.217 HORIZONTAL SIGNAGE LOCATION BY OTHERS
- 4.218 VERTICAL SIGNAGE LOCATION BY OTHERS
- 4.219 MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- 4.221 ELECTRICAL EQUIPMENT, SEE ELECTRICAL DRAWINGS
- 4.229 STEEL LADDER WITH COVER AND RELEASE AT TOP SIDE.
- 4.231 EXISTING STEEL PLATE TO REMAIN, PAINT METRO BLUE, TYP
- 4.234 METAL WALL PANEL AS NOTED ON 9"X6" HAT CHANNEL ATTACHED TO EXISTING CMU WALL



CITY OF MADISON
METRO TRANSIT PHASE 3A - MAINTENANCE AND
DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/06/21 BID SET

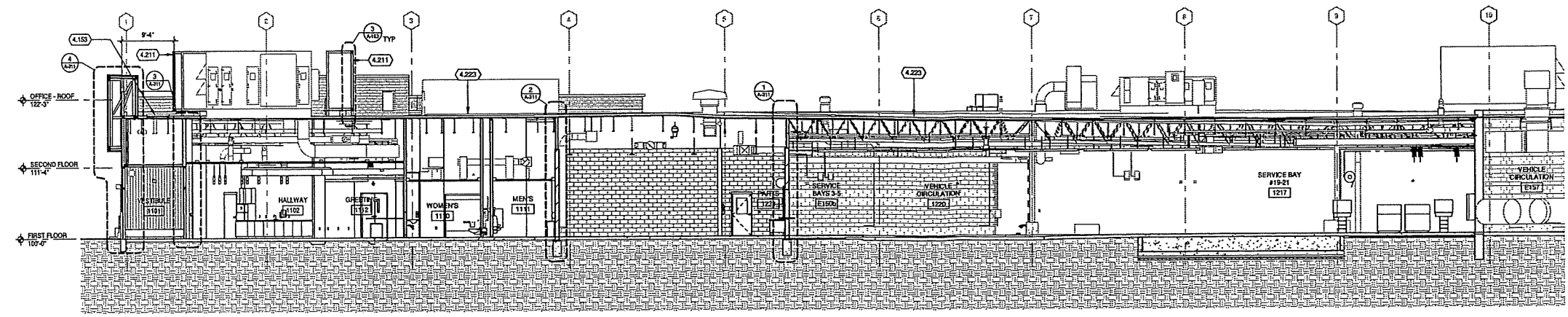
CONTRACT NO: 8561
 PROJECT: 435000-100056.00
 DATE: APRIL 8, 2021
 DEMONSTRATED BY: SZK
 DRAWN BY: NJD, DJM
 CHECKED BY: RCL, REK
 3/4" = 1'-0" SCALE DRAWINGS
EXTERIOR ELEVATIONS

WEST NO:

A-201

C:\pwork\121819\121819.dwg 12/18/19 10:54 PM

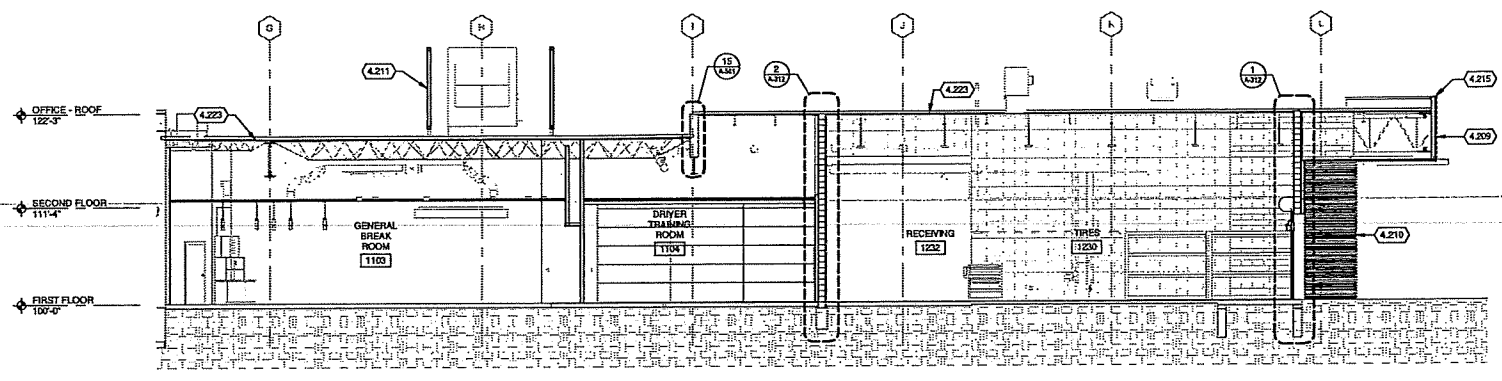
ORIGINAL



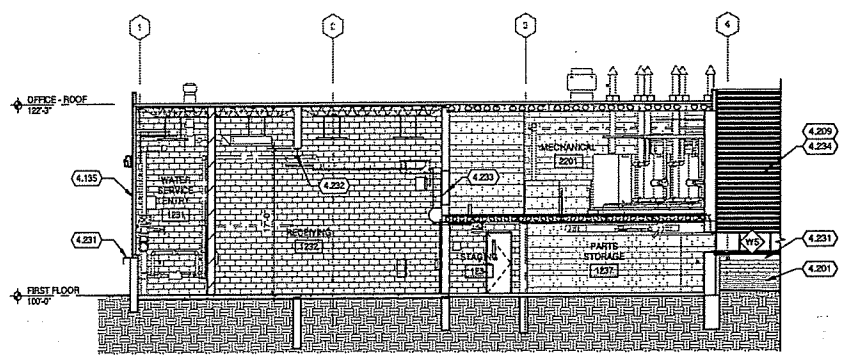
1 BUILDING SECTION
 1/8" = 1'-0"

KEYED NOTES

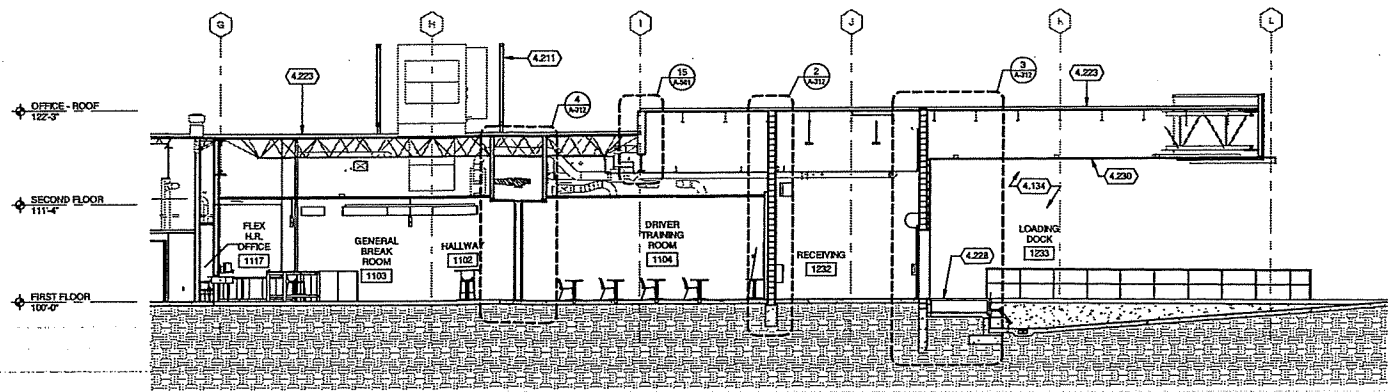
- 4.134 PROVIDE METAL WALL PANEL (MWP2) ON 2" Z FURRING WITH 2" RIGID INSULATION AND 1" AIR SPACE, AND A FLUID APPLIED MEMBRANE AIR BARRIER OVER EXISTING CMU
- 4.135 PROVIDE METAL WALL PANEL (MWP1) OVER FLUID-APPLIED MEMBRANE AIR BARRIER ON 8" GYP. SHEATHING OVER EXISTING 3" STUD, FILL ENTIRE CAVITY WITH INSULATION, VAPOR BARRIER, 5/8" GYP. BD
- 4.133 INFILL AND PATCH ROOF TO MAINTAIN EXISTING WARRANTY
- 4.201 EXISTING BRICK, TO REMAIN
- 4.209 METAL PANEL (MWP-1)
- 4.210 METAL PANEL (MWP-2)
- 4.211 SCREENWALL, METAL PANEL (MWP-3)
- 4.215 PREFINISHED METAL CAP, COLOR TO MATCH MWP-2
- 4.222 EXISTING ROOFING TO REMAIN - PATCH NEW PENETRATIONS TO MECHANICAL, TYP
- 4.228 DOCK LEVELER
- 4.230 METAL SOFFIT (MWP4) ON EXISTING FRAMING - INSTALL (4) REPLACEMENT 12X12 LOUVER VENTS
- 4.231 EXISTING STEEL PLATE TO REMAIN, PAINT METRO BLUE, TYP
- 4.232 STEEL BEAM AT CMU WALL REMOVAL - REF STRUCTURAL
- 4.233 INFILL WALL OPENING WITH CMU TO MATCH EXISTING WIDTH
- 4.234 METAL WALL PANEL AS NOTED ON 8" HAT CHANNEL ATTACHED TO EXISTING CMU WALL



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



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



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



CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
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 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

ISSUED
 04/08/21 BID SET

CONTRACT NO: 8981
 NUMBER: 4520000-100000020
 DATE: APRIL 8, 2021
 DESIGNED BY: SZK
 DRAWN BY: NJD, DJM
 CHECKED BY: RCL, REK
 50% SIZE DRAWINGS

SHEET CONTENTS
 BUILDING SECTIONS

SHEET NO.:

A-301

17/2/2021 12:28:29 PM C:\Users\lca1110088\OneDrive\Documents\1101 East Washington\1101 East Washington\1101 East Washington.dwg

ORIGINAL

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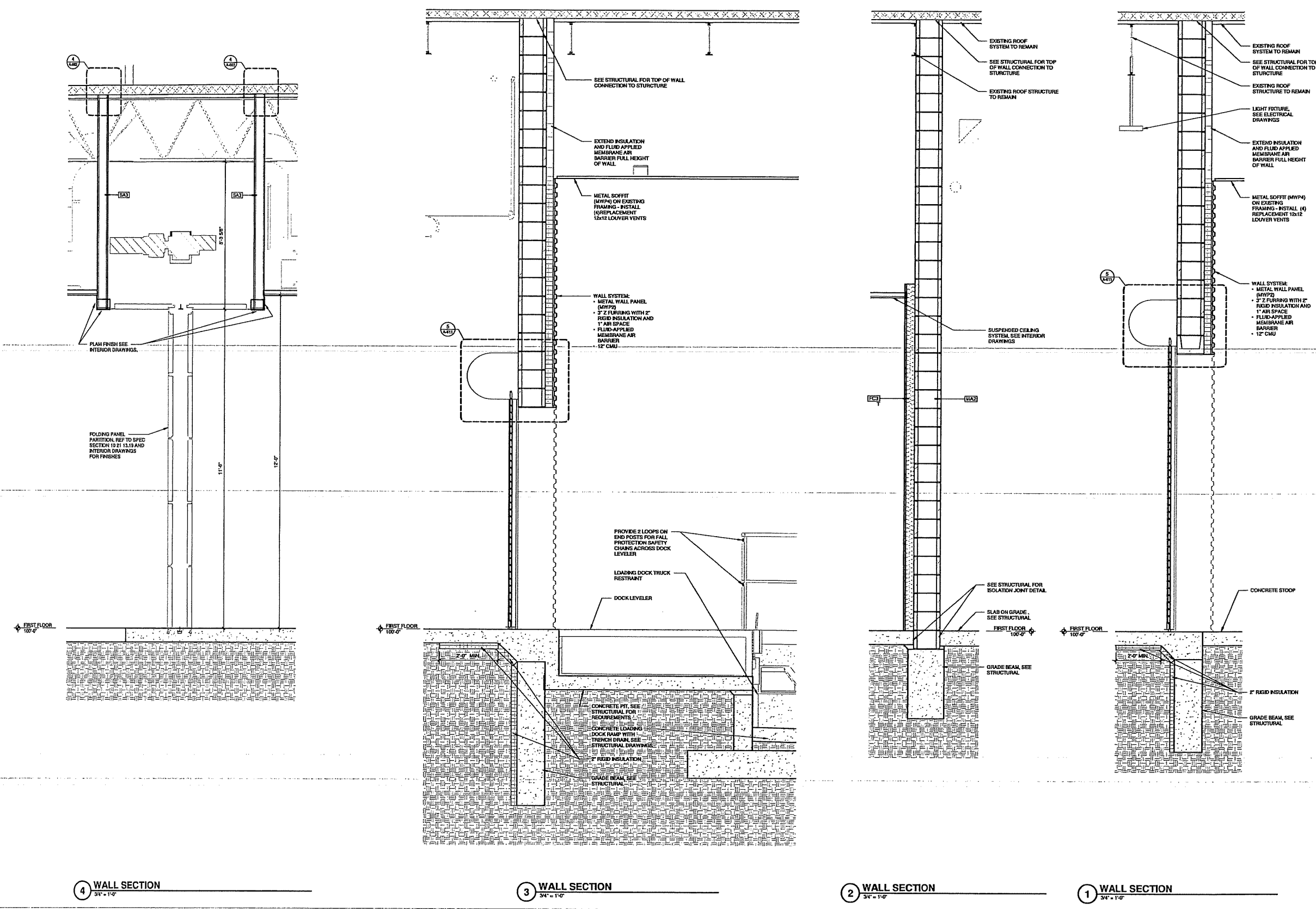


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 MADISON, WI 53703

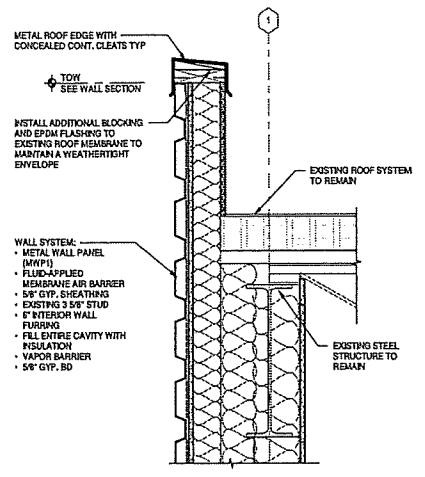
04/06/21 BID SET

CONTRACT NO: 0581
 PROJECT: 452000-190006L03
 DATE: APRIL 8, 2021
 DESIGNED BY: SZK
 DRAWN BY: NJO, DJM
 CHECKED BY: RCL, REK
 SCALE: AS SHOWN
WALL SECTIONS

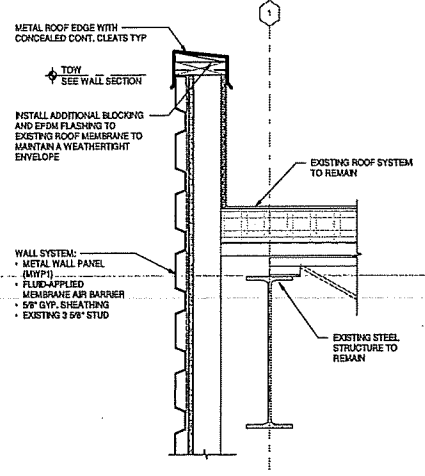
04/06/21
A-312



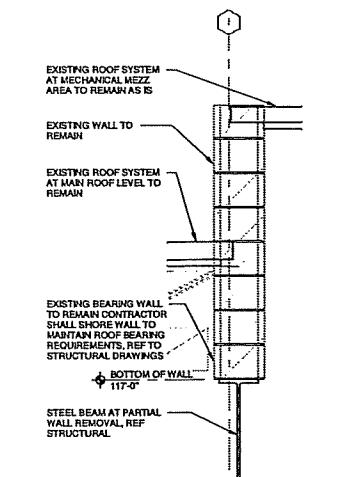
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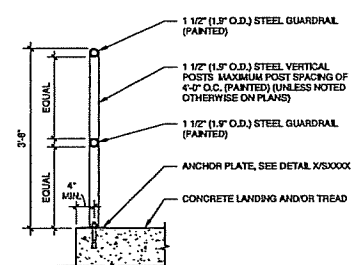
19 PARAPET DETAIL
1 1/2" = 1'-0"



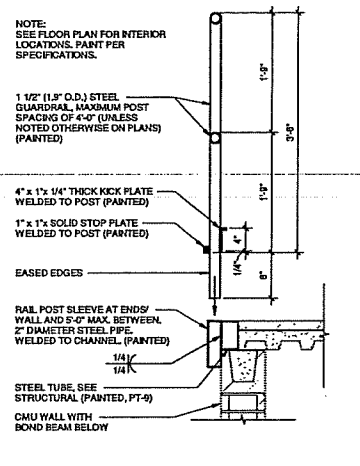
20 PARAPET DETAIL
1 1/2" = 1'-0"



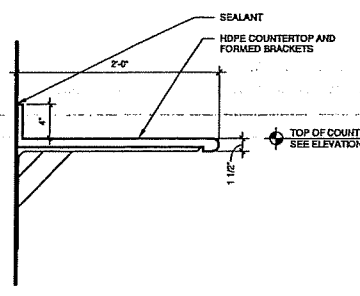
15 PARTIAL WALL SECTION
3/4" = 1'-0"



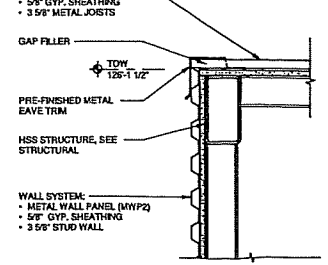
16 GUARDRAIL SECTION - 2 RAIL
3/4" = 1'-0"



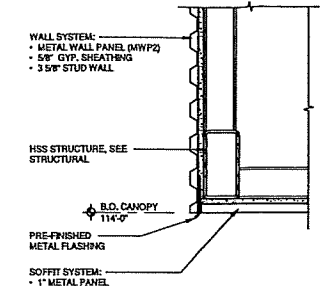
17 REMOVABLE RAILING
1" = 1'-0"



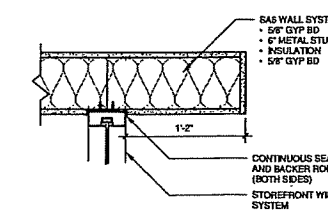
18 COUNTERTOP DETAIL
1 1/2" = 1'-0"



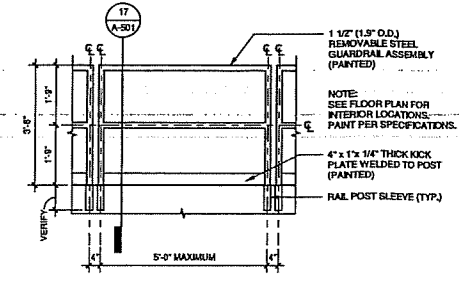
10 OVERHANG ON EXISTING WALL DETAIL
1 1/2" = 1'-0"



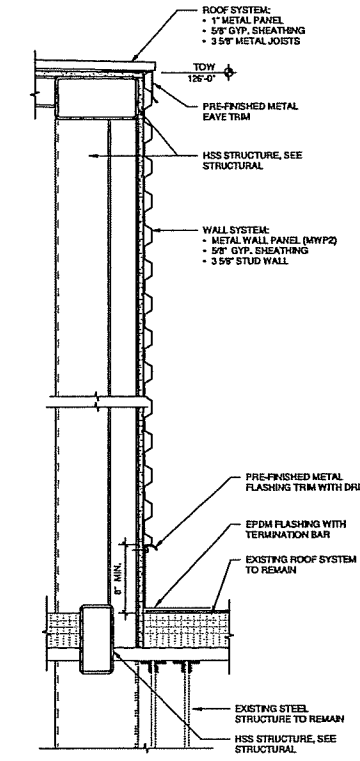
11 OVERHANG ON EXISTING WALL DETAIL
1 1/2" = 1'-0"



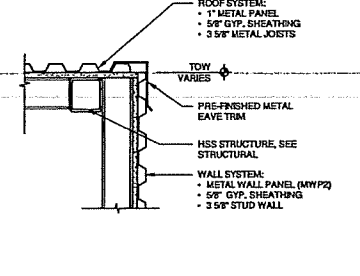
13 ENLARGED DETAIL PLAN
1 1/2" = 1'-0"



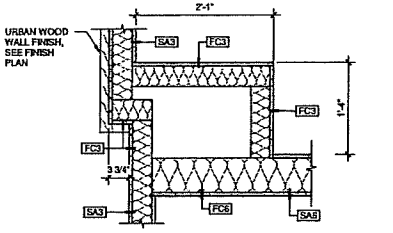
14 REMOVABLE GUARDRAIL ELEVATION
1 1/2" = 1'-0"



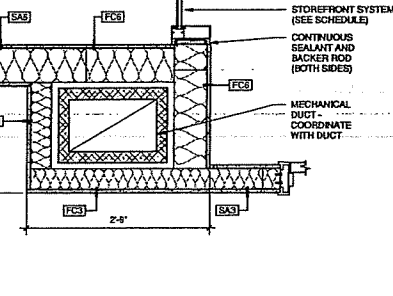
6 OVERHANG ON EXISTING WALL DETAIL
1 1/2" = 1'-0"



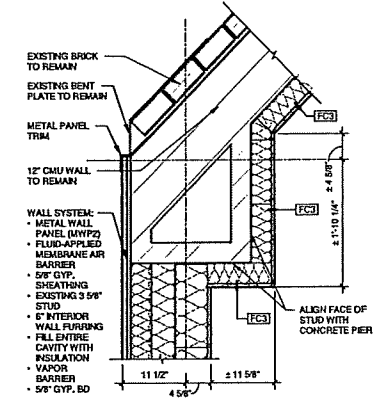
7 OVERHANG ON EXISTING WALL DETAIL
1 1/2" = 1'-0"



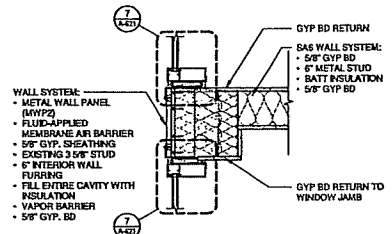
8 ENLARGED DETAIL PLAN
1" = 1'-0"



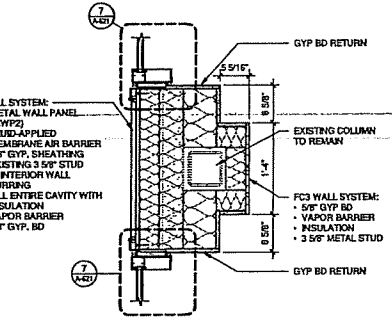
9 ENLARGED DETAIL PLAN
1" = 1'-0"



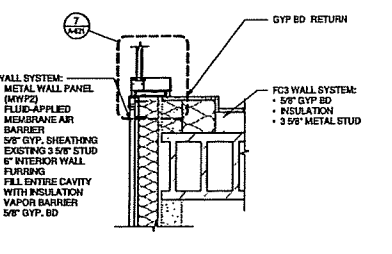
1 ENLARGED PLAN DETAIL
1" = 1'-0"



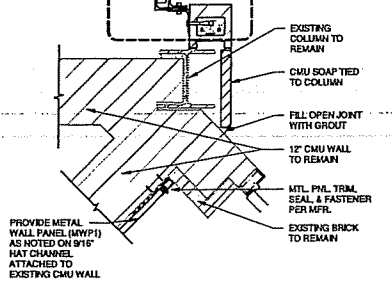
2 ENLARGED DETAIL PLAN
1" = 1'-0"



3 ENLARGED DETAIL PLAN
1" = 1'-0"



4 ENLARGED DETAIL PLAN
1" = 1'-0"



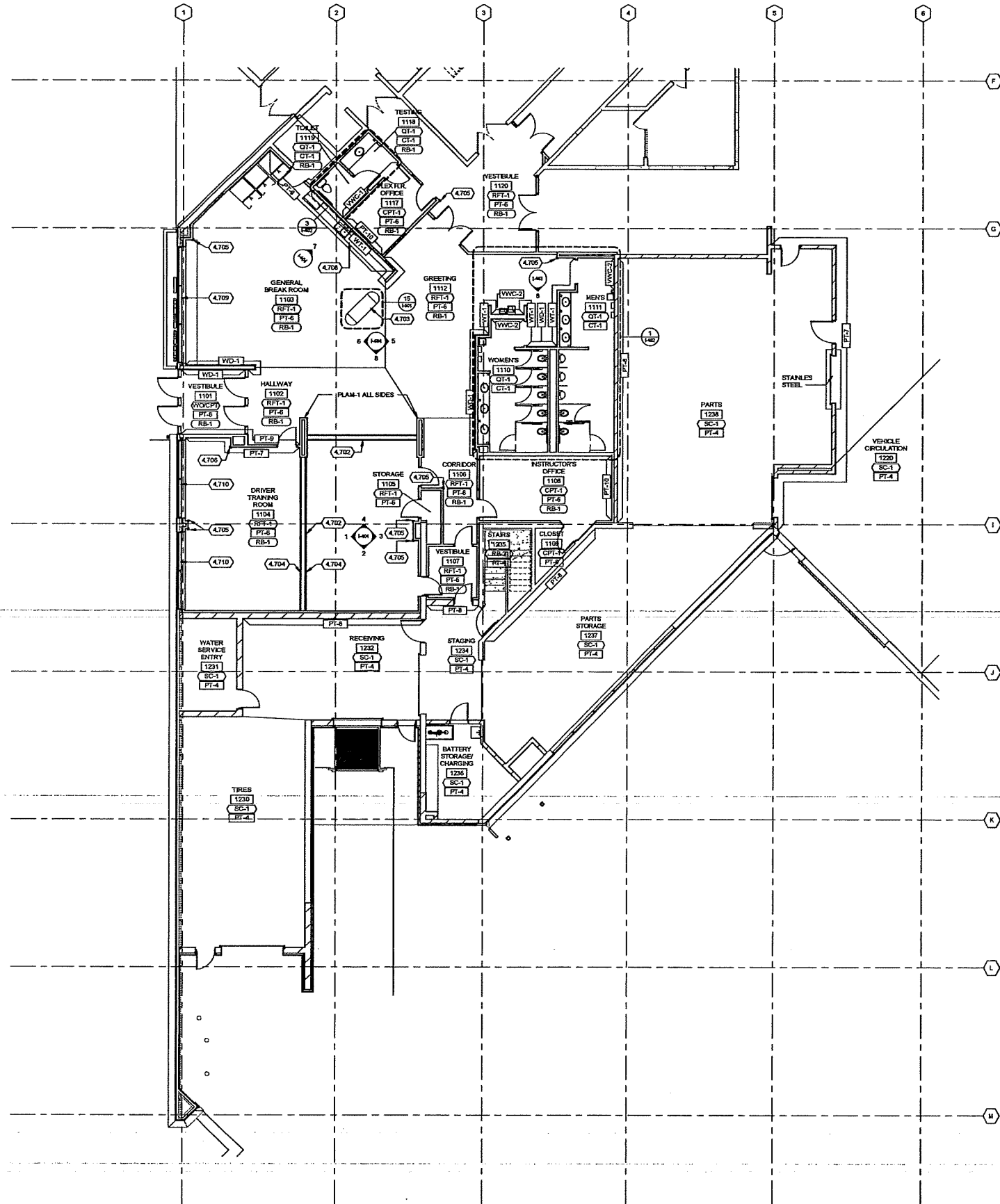
5 ENLARGED DETAIL PLAN
1" = 1'-0"



CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

04/09/21 BID SET
 CONTRACT NO: 8981
 DATE: APRIL 8, 2021
 DESIGNED BY: SKK
 DRAWN BY: NJD, DJM
 CHECKED BY: RCL, REK
 SHEET CONTENTS
 DETAILS

ORIGINAL



ROOM FINISH GENERAL NOTES:

1. REFER TO FINISH SCHEDULE, SHEET 1401 FOR MATERIAL SELECTION AND COLOR.
2. REFER TO SHEET 1401 FOR "INTERIORS FINISH" ABBREVIATIONS.
3. REFER TO ROOM FINISH SCHEDULE, SHEET 1401 FOR ALL ROOM FINISHES NOT NOTED ON PLAN.
4. ALL FLOORING TRANSITIONS SHALL BE CENTERED UNDER DOOR IN CLOSED POSITION U.N.O. REFER TO SHEET 1401 FOR FLOORING PATTERN PLAN AND FLOORING TRANSITIONS. REFER TO SHEET 1401 FOR TYPICAL TRANSITION DETAILS.
5. ALL METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL SURFACE, U.N.O.
6. ALL SHOP PRIMED ACCESS PANELS SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
7. ALL PRECAST CEILINGS SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
8. ALL CONCRETE FLOORS NOT TO RECEIVE ADDITIONAL FINISH SHALL BE SEALED, U.N.O.

KEYED NOTES

- 4.702 EXPOSED SIDES OF BULKHEADS AND EXPOSED END OF HEADER TO BE PLAIN, SEE SHEET 4A-212 FOR OPERABLE VERTICAL PARTITION DETAIL.
- 4.703 CUSTOM MOBILE TRASH CASEWORK - SEE 1401 FOR MORE INFORMATION.
- 4.704 SEE SILL ELEVATION 41-404 FOR VERTICAL OPERABLE PARTITION PANEL FINISHES.
- 4.705 CG-1: REFER TO FINISH SCHEDULE, SHEET 1401, FOR MATERIAL SELECTION AND COLOR.
- 4.706 CG-2: REFER TO FINISH SCHEDULE, SHEET 1401, FOR MATERIAL SELECTION AND COLOR.
- 4.708 2" GROMMET AT EACH ROUGH IN LOCATION.
- 4.709 MANUAL DOUBLE ROLLER WSH-D-1.
- 4.710 POWERED DOUBLE ROLLER WSH-D-1 AND WSH-D-2.

Mead & Hunt
 Mead & Hunt, Inc.
 2440 Deming Way
 Middleton, WI 53562
 phone: 608-273-6380
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ISSUES
 04/06/21 80 6ET

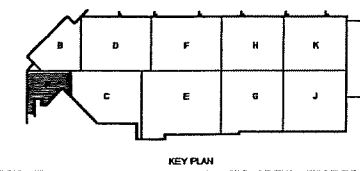
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 PROJ. NO.: 4503500-150056.03
 DATE: APRIL 8, 2021
 DESIGNER BY: SZK
 CHECKED BY: HLD, DLM
 DRAWN BY: ROL, REK
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 FIRST FLOOR FINISH
 PLAN - AREA A

SHEET NO.:

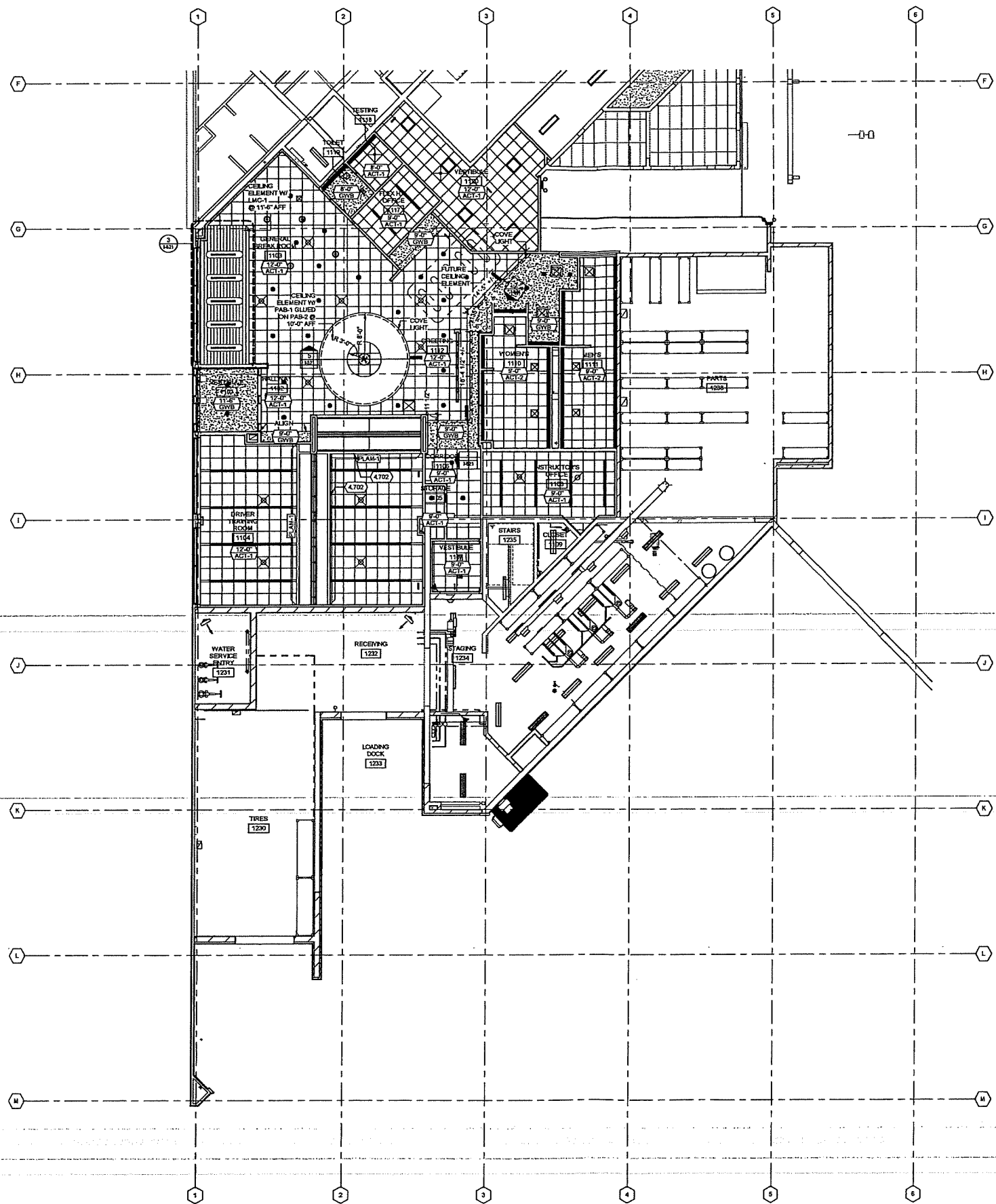
I-101A

1 FIRST FLOOR FINISH PLAN - AREA A
 1/8" = 1'-0"



01619 INAL

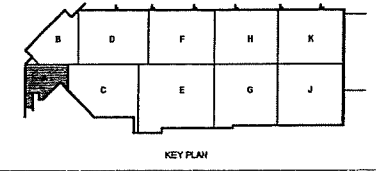
4/7/2021 9:30:30 AM C:\Users\mrmr\OneDrive\temp\158893-14254-Area_A_finish.dwg



- CEILING PLAN GENERAL NOTES:**
1. REFLECTED CEILING PLAN IS FOR LAYOUT PURPOSES ONLY, COORDINATE FINAL LOCATION WITH MECHANICAL LOCATIONS.
 2. ELECTRICIAN TO PROVIDE ALL REQUIRED OUTLETS.
 3. SEE ROOM FINISH SCHEDULE ON 1401 FOR FLOOR, WALL AND CEILING FINISHES AND ROOM HEIGHTS.
 4. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.
 5. ALL RECESSED LIGHTS, SPRINKLERS, FIRE DETECTION EQUIPMENT, OCCUPANCY SENSORS, ETC. SHALL BE CENTERED IN THE TILES UNLESS NOTED OTHERWISE.
 6. CENTER ALL CEILING GRIDS IN SPACE UNLESS NOTED OTHERWISE.
 7. ALL METAL LINEAR DIFFUSERS SHALL BE PAINTED TO MATCH SURROUNDING WALL OR CEILING CURFACE.
 8. REFER TO SHEET 1401 FOR CEILING PAINT COLOR.
 9. REFER TO ELECTRICAL FOR LIGHT FIXTURE LEGEND
 10. REFER TO SHEET 1421 FOR REFLECTED CEILING DETAILS

- KEYED NOTES**
- 4.702 EXPOSED SIDES OF BULKHEADS AND EXPOSED END OF HEADER TO BE PLAIN, SEE SHEET 4A-010 FOR OPERABLE VERTICAL PARTITION DETAIL.

- CEILING PLAN LEGEND:** SEE ELECTRICAL FOR LIGHT FIXTURE LEGEND
- 2x2 SUSPENDED CEILING GRID
 - GYPSUM BOARD CEILING
 - CEILING TYPE TAG
ELEVATION ABOVE FINISHED FLOOR
 - CEILING TYPE



1 FIRST FLOOR REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

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2440 Deming Way
Madison, WI 53762
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DRIVER FACILITY IMPROVEMENTS
1101 EAST WASHINGTON AVE.
MADISON, WI 53703**

ISSUE
04/09/21 BID SET

CONTRACT NO: 8981
SHEET NO: 450000-150096.03
DATE: APRIL 8, 2021
DESIGNED BY: SZK
DRAWN BY: NJO, DJM
CHECKED BY: RCL, REK
SCALE: AS SHOWN

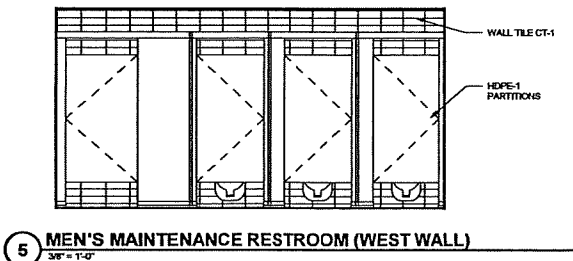
FIRST FLOOR
REFLECTED CEILING
PLAN - AREA A

SHEET NO:
I-121A

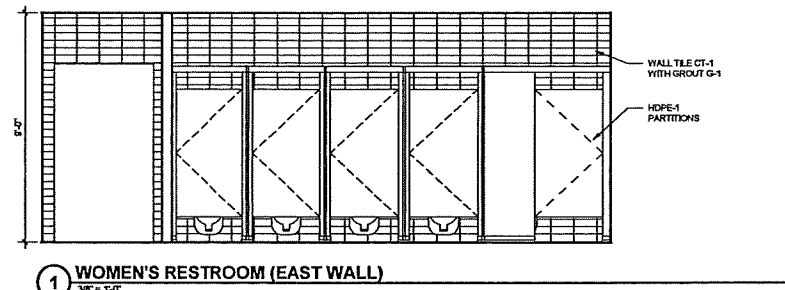
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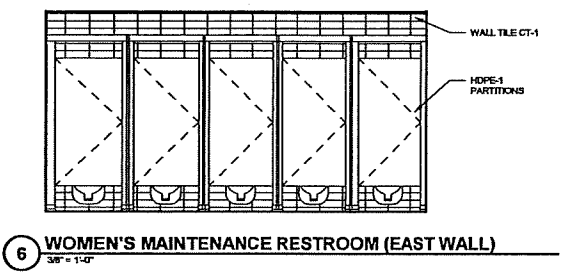
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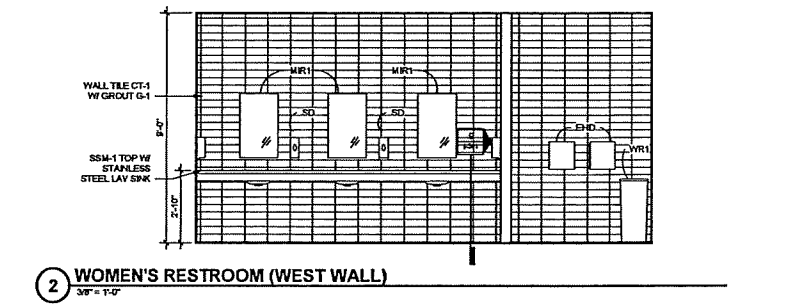
5 MEN'S MAINTENANCE RESTROOM (WEST WALL)
 36" = 1'-0"



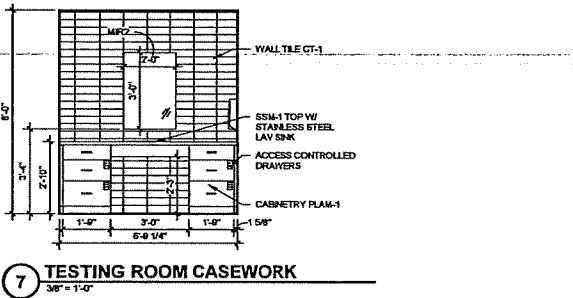
1 WOMEN'S RESTROOM (EAST WALL)
 36" = 1'-0"



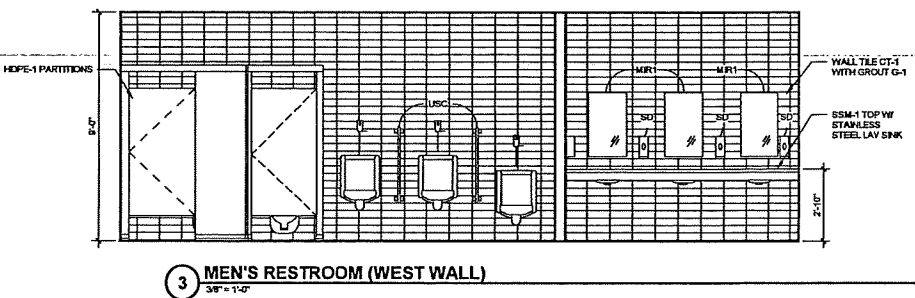
6 WOMEN'S MAINTENANCE RESTROOM (EAST WALL)
 36" = 1'-0"



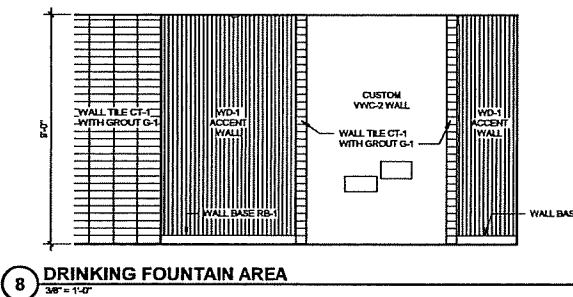
2 WOMEN'S RESTROOM (WEST WALL)
 36" = 1'-0"



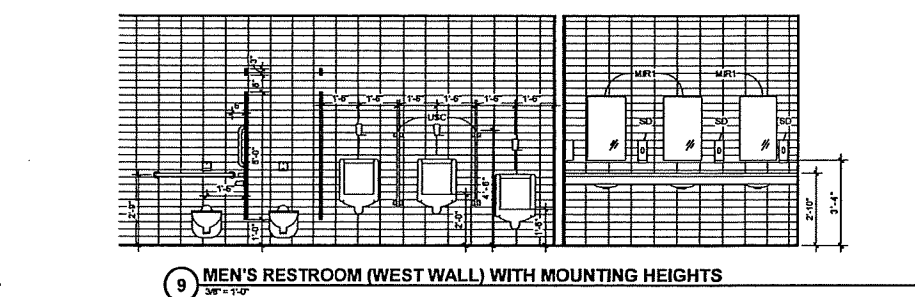
7 TESTING ROOM CASEWORK
 36" = 1'-0"



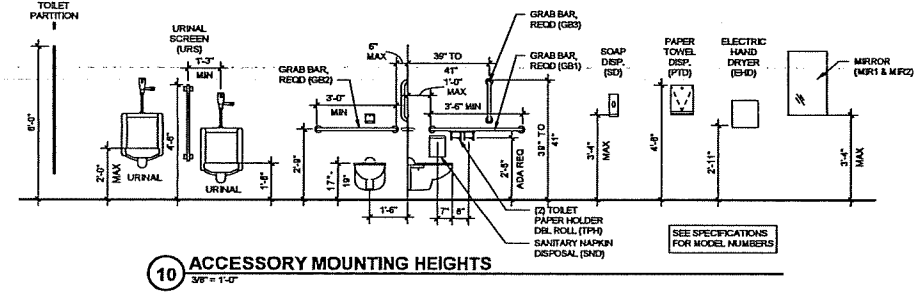
3 MEN'S RESTROOM (WEST WALL)
 36" = 1'-0"



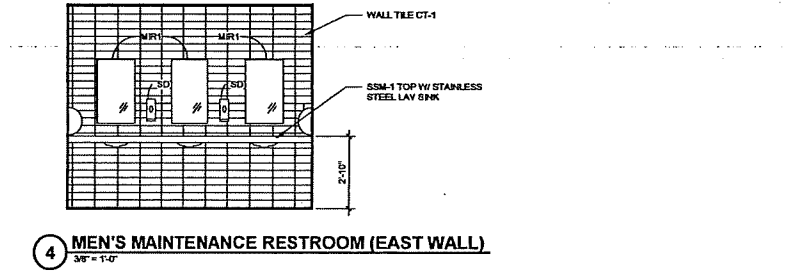
8 DRINKING FOUNTAIN AREA
 36" = 1'-0"



9 MEN'S RESTROOM (WEST WALL) WITH MOUNTING HEIGHTS
 36" = 1'-0"

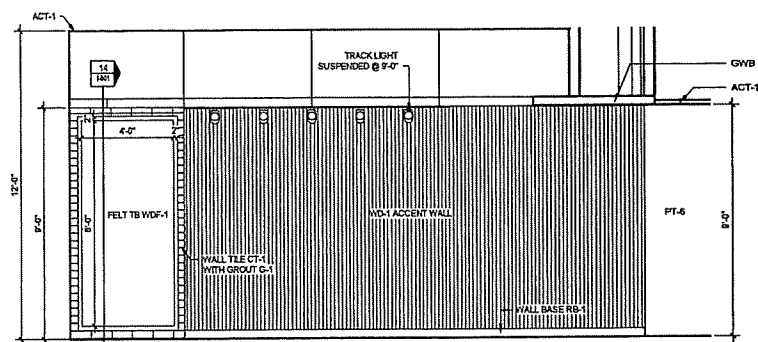


10 ACCESSORY MOUNTING HEIGHTS
 36" = 1'-0"

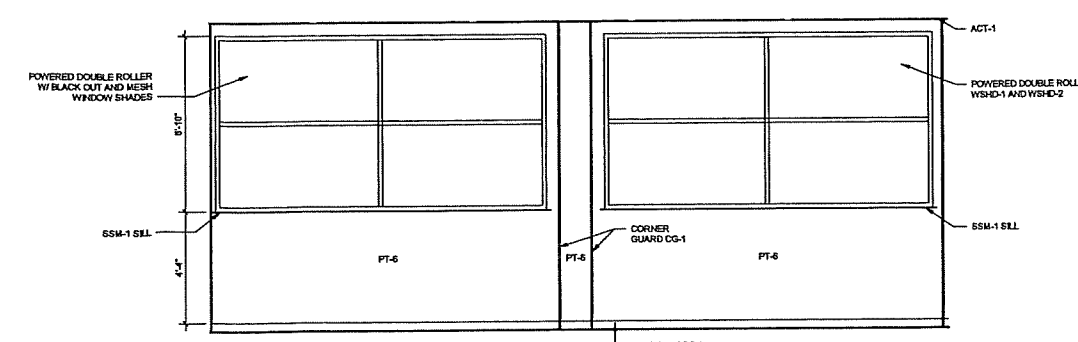


4 MEN'S MAINTENANCE RESTROOM (EAST WALL)
 36" = 1'-0"

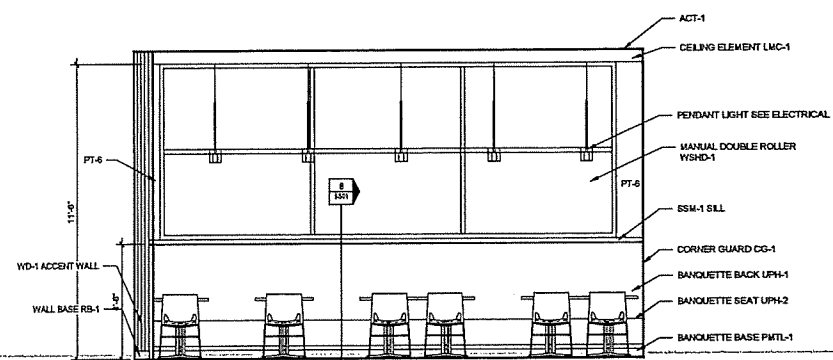
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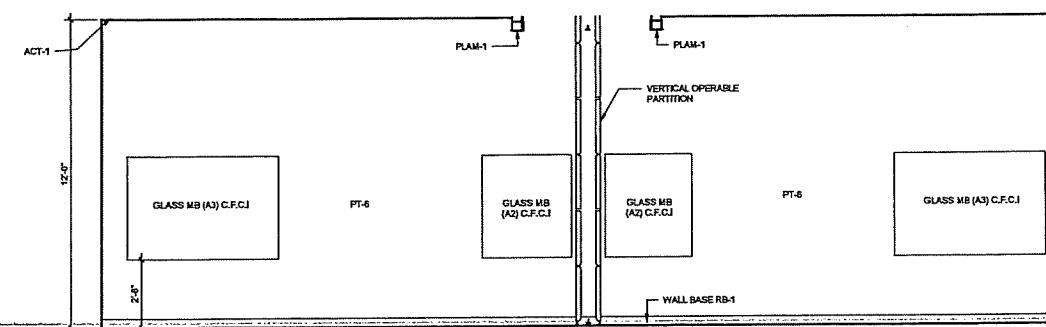
5 GREETING AND COORIDOR
3/8" = 1'-0"



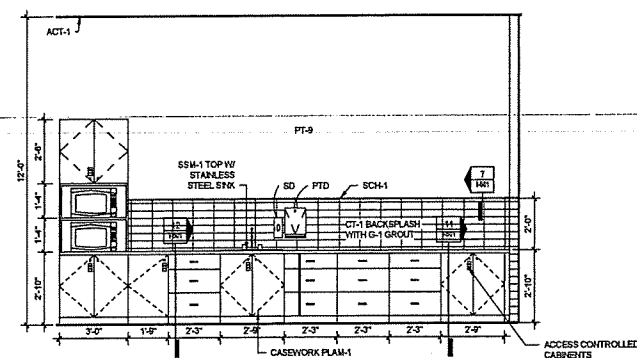
1 DRIVER TRAINING ROOM (WEST WALL)
3/8" = 1'-0"



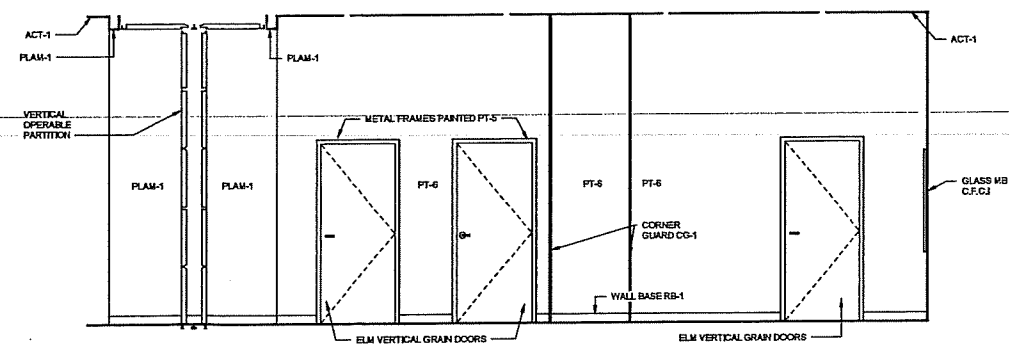
6 BANQUETTE SEATING
3/8" = 1'-0"



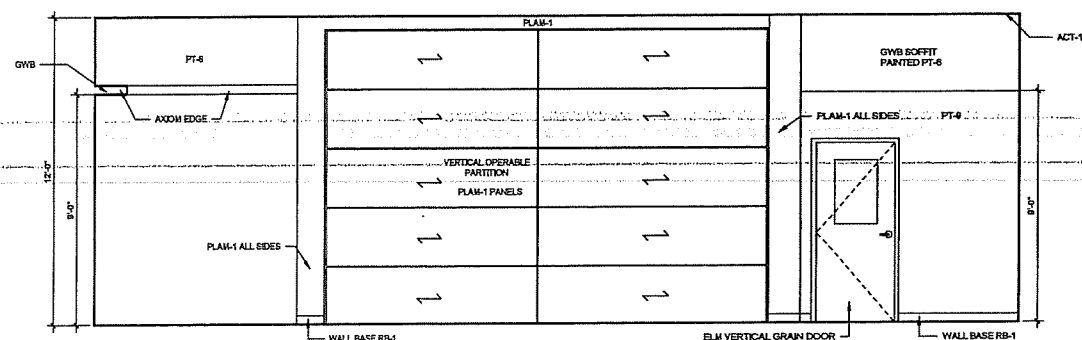
2 DRIVER TRAINING ROOM (SOUTH WALL)
3/8" = 1'-0"



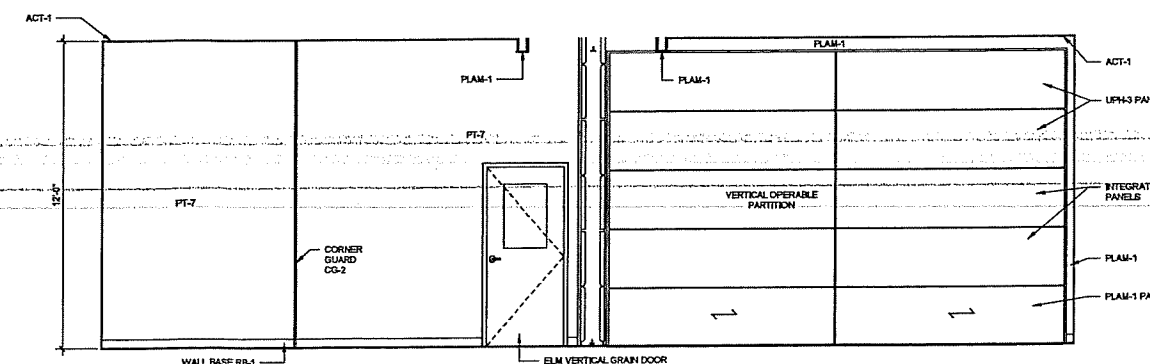
7 GENERAL BREAK ROOM CASEWORK
3/8" = 1'-0"



3 DRIVER TRAINING ROOM (EAST WALL)
3/8" = 1'-0"

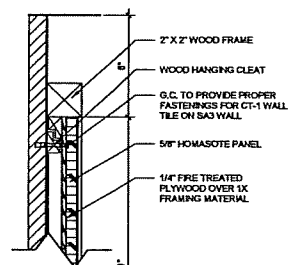


8 HALLWAY (SOUTH WALL)
3/8" = 1'-0"

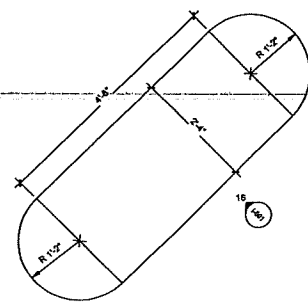


4 DRIVER TRAINING ROOM (NORTH WALL)
3/8" = 1'-0"

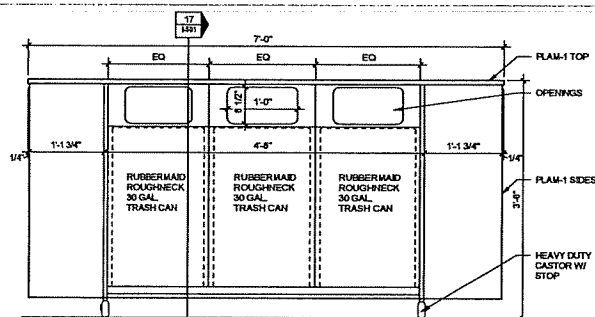
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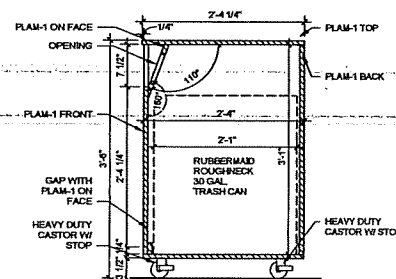
14 FELT TACKBOARD SECTION
3/4" = 1'-0"



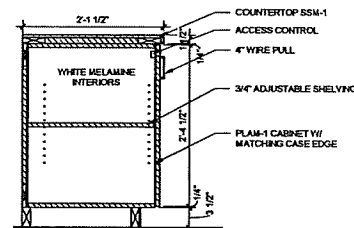
15 MOBILE TRASH CABINETY
3/4" = 1'-0"



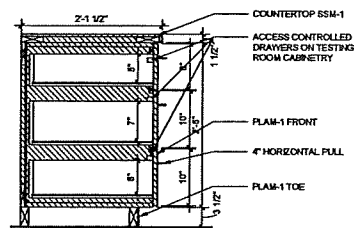
16 MOBILE TRASH CABINETY
1" = 1'-0"



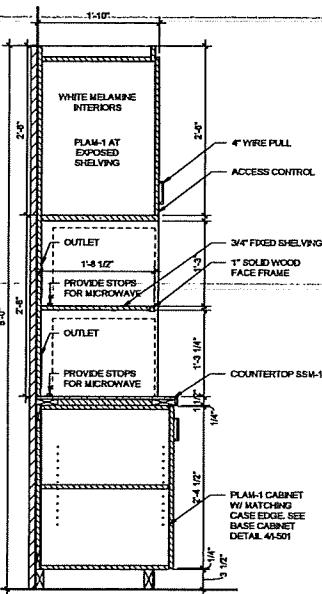
17 MOBILE TRASH CABINETY SECTION
1" = 1'-0"



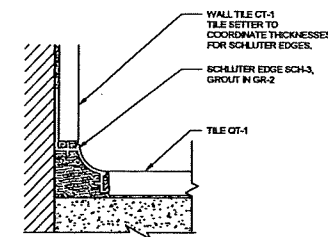
11 TYP. BASE CABINET SECTION
1" = 1'-0"



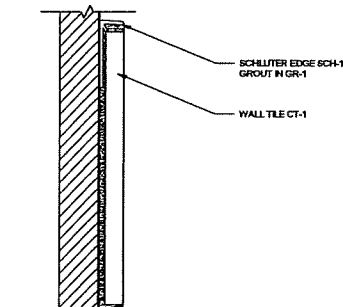
12 TYP. 3 DRAWER CABINETY SECTION
1" = 1'-0"



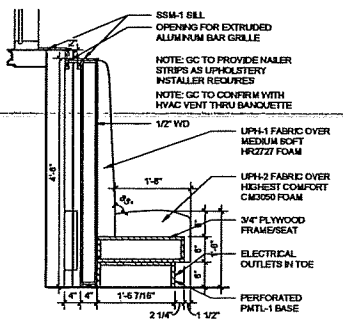
13 MICROWAVE CABINET SECTION
1" = 1'-0"



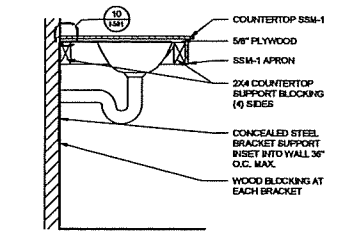
6 TYP. BASE COVE DETAIL
12" = 1'-0"



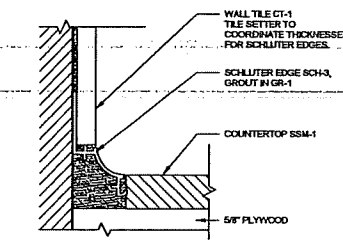
7 TOP EDGE SCHLUTER DETAIL
12" = 1'-0"



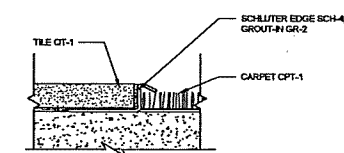
8 BANQUETTE SECTION
3/4" = 1'-0"



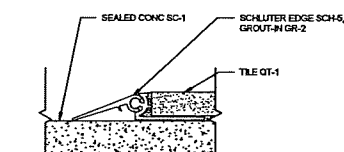
9 TYP. LAVATORY COUNTER W/ SKIRT
1" = 1'-0"



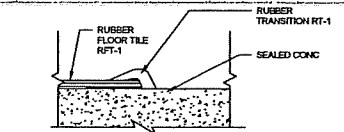
10 BASE COVE COUNTER DETAIL
12" = 1'-0"



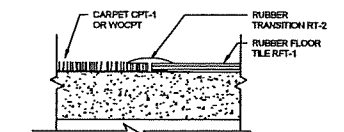
1 TYP. TILE TO CPT TRANSITION
12" = 1'-0"



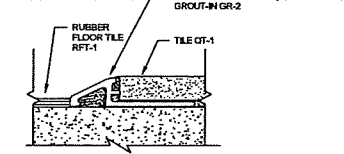
2 TYP. CONC. TO TILE TRANSITION
12" = 1'-0"



3 TYP. CONC. TO RUBBER TRANSITION
12" = 1'-0"



4 TYP. RUBBER TO CPT TRANSITION
12" = 1'-0"



5 TYP. RUBBER TO TILE TRANSITION
12" = 1'-0"

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**CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703**

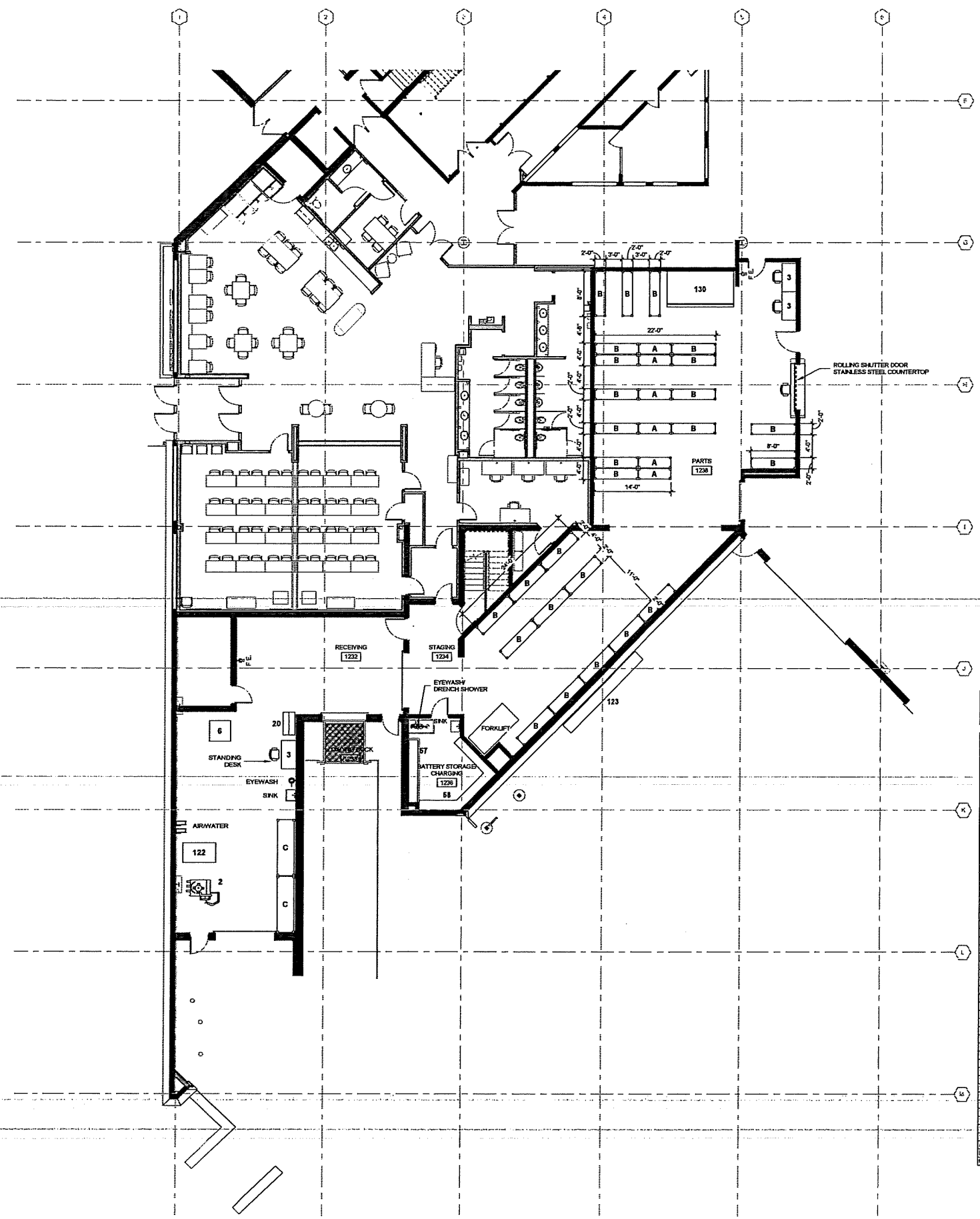
ISSUE
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 DATE: APRIL 8, 2021
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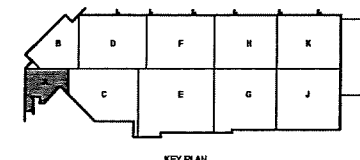
INSET CONTAINS
 FIRST FLOOR PLAN -
 AREA A

SHEET NO.

Q-101A



EQUIPMENT SCHEDULE						
Mark	Type	Count	Owner Provided	Owner Installed	GC Provided	GC Installed
2	Rin Clamp Tire Machine	1	X	X		
3	Desk 60"W x 30"D	3	X	X	X	X
6	Fire Cage	1	X	X	X	X
9	2-Tier Locker - 12"x19"x78"	6			X	X
20	Tool Cabinet	30	X	X		
21	Work Bench 54"W x 36"D x 36"H	16			X	X
34	SmartWasher 8YX-37	9			X	X
35	Oil King 25 gal Used-Oil Receiver	11			X	X
45	Tool Cabinet	1	X	X	X	X
46	Battery Charging Bench	1	X	X	X	X
58	Battery Charging Bench	1	X	X	X	X
60	Pallet Storage Floor Space	1	X	X		
63	Pallet Storage Floor Space	1	X	X		
64	Used Oil Tank	1	X	X		
69	Bulk Fluid Storage Tank #2	1	X	X	X	X
91	Dumping Hopper	1	X	X		
92	Baler	1	X	X		
96	Oil Filter Crusher	1	X	X		
101	Bulk Fluid Storage Tank #3	1	X	X	X	X
106	Rack Shelving - 3D x 10W x 8H	3	X	X	X	X
118	Rack Shelving - 3D x 10W x 8H	1	X	X	X	X
119	Rack Shelving - 3D x 10W x 8H	2	X	X	X	X
122	Tire Machine	1	X	X		
123	Flammable Tank Storage	1	X	X	X	X
127	Draft Pines	1	X	X	X	X
128	Horizontal Band Saw	1	X	X		
129	Tire Cassinet	1			X	X
130	Parts Cabinet	1			X	X
131-13	ECCO-60-10	1			X	X
131-14	ECCO-60-10	1			X	X
131-15	ECCO-60-10	1			X	X
131-16	ECCO-60-10	1			X	X
131-17	ECCO-60-10	1			X	X
131-18	ECCO-60-10	1			X	X
131-19	ECCO-60-10	1			X	X
131-20	ECCO-60-10	1			X	X
131-21	ECCO-60-10	1			X	X
132-22	ECCO-60-17	1			X	X
133-13	ECCO-60 Control Console	1			X	X
133-14	ECCO-60 Control Console	1			X	X
133-15	ECCO-60 Control Console	1			X	X
133-16	ECCO-60 Control Console	1			X	X
133-17	ECCO-60 Control Console	1			X	X
133-18	ECCO-60 Control Console	1			X	X
133-19	ECCO-60 Control Console	1			X	X
133-20	ECCO-60 Control Console	1			X	X
133-21	ECCO-60 Control Console	1			X	X
133-22	ECCO-60 Control Console	1			X	X
134	Oil Filter Trash Receptacle	1	X	X		
135	Waste Oil Pump	2			X	X
A	Rack Shelving - 2D x 8W x 8H	6			X	X
B	Rack Shelving - 2D x 8W x 8H	26			X	X
C	Rack Shelving - 3D x 10W x 8H	5			X	X



TRUE PLAN
 NORTH NORTH

1/8" First Floor Equipment Plan - Area A
 1/8" = 1'-0"

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LUMINAIRE SCHEDULE

NOTE: SEE SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

ABBREVIATIONS:						R = RECESSED		V = VARIES						
GWB = GYPSUM WALL BOARD		P = PENDANT		S = SURFACE		W = WALL MOUNTED								
ES = EXPOSED STRUCTURE		PLAS = PLASTER		S = SURFACE		W = WALL MOUNTED								
LG = LAY-IN GRID		PL = POLE MOUNTED		UNV = UNIVERSAL VOLTAGE										
DES.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	LAMP DATA	VOLTAGE	BALLAST/DRIVER	MOUNT	CEILING TYPE	FIXTURE DEPTH	LED SYSTEM INPUT WATTAGE	LED DELIVERED LUMENS	OPTIONS / ACCESSORIES	ACCEPTABLE MANUFACTURERS	KEYED NOTE
A1	LITHONIA	EPANEL SERIES	2' x 2' LED EDGE-LIT FLAT PANEL	4000K LED	277V	D	R	LG	2"	29.2	3333		COLUMBIA CFP KIO ASTRAL EDGE	
D1	GOTHAM	EV04 SERIES	4" LED ROUND RECESSED DOWNLIGHT WITH WHITE REFLECTOR AND FLANGE, MEDIUM DISTRIBUTION, AND SEMI-SPECULAR FINISH	4000K LED	277V	D	R	LG	6.12"	13.7W	1527		PORTFOLIO, LITESTRY USAJ	
DK1	HUBBELL	DOXSTAR SERIES	LED DOCK LIGHT, WITH 32 DEGREE FLOOD OPTICS AND POLYCARBONATE LENS, IN-LINE ROCKER SWITCH, 40" DOUBLE STRUT SWING ARM WITH STANDARD 6' CORD AND PLSG	5000K LED	120V	D	W	-	-	21W	1906		PHOENIX	
J1	CONTECH	CTL SERIES	12" LED TRACK LIGHT, WHITE, WITH SOLITE TEMPERED GLASS LENSES, ORDER WITH 12" CONTECH LT WHITE TRACK WITH OUTLET BOX COVER PLATE LA-4 AND AIRCRAFT CABLE	4000K LED	120V	D	R	LG	-	19W	2213		JUNO, BRUCK	
K21	CREE	LS SERIES	4" LED WALL BRACKET WITH LOW GLARE ACRYLIC LENS AND WHITE FINISH	4000K LED	277V	D	W	-	3"	40W	4250		TIMES SQUARE, LSI	
L1	AXIS	BEAM4 LED SERIES	4" LED NARROW RECESSED LINEAR FIXTURE WITH WHITE POWDER COAT EXTRUDED ALUMINUM HOUSING AND FORSTED FLUSH LENS, 90 CRI	4000K LED	277V	D	R	LG	3-7/8"	5WFT	400 LMFT		METALLUX, COLUMBIA LITHONIA	
L2	AXIS	BEAM4 LED SERIES	4" LED RECESSED PERIMETER FIXTURE WITH EXTRUDED ALUMINUM HOUSING, 2" REGRESS, TELESCOPIC END, SEE PLANS FOR EXACT LENGTH REQUIRED.	4000K LED	277V	D	R	LG	6"	5WFT	400 LMFT		PINNACLE, LUMENWERK CORONET, FINELITE	
L3	OMNILIGHT	CONTINUUM SERIES	FIELD CUTTABLE LED TAPELIGHT MOUNTED IN ALUMINUM CHANNEL, DIMMABLE, 90 CRI	3000K LED	24V	D	S	GWB	0.5"	1.47 WFT	140 LMFT		ACCOLYTE, OPTIC ARTS MODA, LED LINEAR	
L4	AXIS	BEAM4 LED SERIES	4" LED RECESSED PERIMETER FIXTURE WITH EXTRUDED ALUMINUM HOUSING, 2" REGRESS, TELESCOPIC END, SEE PLANS FOR EXACT LENGTH REQUIRED.	4000K LED	277V	D	R	GWB	6"	5WFT	400 LMFT		PINNACLE, LUMENWERK CORONET, FINELITE	
N2	LITHONIA	MSL SERIES	4" LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	S	-	3-1/4"	40W	3636		METALLUX, COLUMBIA DAYBRITE	
N3	LITHONIA	MSL SERIES	4" LED CHAIN-HUNG PENDANT INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	P	-	3-1/4"	40W	3636		METALLUX, COLUMBIA DAYBRITE	
N5	LITHONIA	MSL SERIES	4" LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	277V	D	S	-	3-1/4"	58W	7273		METALLUX, COLUMBIA DAYBRITE	
N6	BARRON	VPA SERIES	4" LED SURFACE LINEAR VAPOR-TIGHT WITH POLYCARBONATE HOUSING FOR CORROSIVE ENVIRONMENT	4000K LED	277V	D	S	-	3.6"	40W	5200		METALLUX, COLUMBIA DAYBRITE	
N7	LITHONIA	MSL SERIES	4" LED SURFACE INDUSTRIAL FIXTURE WITH STEEL HOUSING AND BAKED WHITE ENAMEL FINISH	4000K LED	120V	D	S	-	3-1/4"	58W	7273		METALLUX, COLUMBIA DAYBRITE	
N11	LITHONIA	FEM SERIES	4" LED PENDANT INDUSTRIAL VAPOR-TIGHT FIXTURE WITH FIBERGLASS HOUSING	4000K LED	277V	D	P	-	4-1/4"	94.3W	15180		LITHONIA METALLUX, COLUMBIA	
OA1	GOTHAM	EV06 SERIES	6" LED ROUND RECESSED DOWNLIGHT, WET LOCATION RATED, FLUSH LENSED WHITE PAINTED TRIM WITH SMOOTH CLEAR LENS	4000K LED	277V	D	R	-	7.8/10"	10W	857		PORTFOLIO, LITESTRY USAJ	
OA2	LITHONIA	O-SERIES SIZE 1	LED WALL MOUNTED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ACRYLIC LENS, DARK SKY FRIENDLY CERTIFIED, IP65 RATED, FORWARD THROU LIGHT DISTRIBUTION AND DARK BRONZE FINISH	4000K LED	277V	D	W	-	10"	13W	1515		MCGRAW EDISON, HUBBELL PHILIPS 122 SCORCE SERIES	
P1	DESIGNPLAN	PLANK SERIES	4" LED LINEAR PENDANT WITH ALUMINUM BODY AND WOOD SIDE PANELS, AIRCRAFT CABLE MOUNT, 90 CRI	4000K LED	277V	D	P	LG	8"	72W	1940 UP 1606 DOWN		MODERN FORMS PURE EDGE	
P2	G LIGHTING	GLOBE SERIES	24" LED ACRYLIC GLOBE INTERIOR PENDANT	4000K LED	277V	D	P	GWB	24"	42W	4912		SPY AI LATI	
P3	EUREKA	MIKA SERIES	6" LED GLOBE INTERIOR PENDANT WITH CLEAR CABLE AND 0-10V DIMMING, 90 CRI	4000K LED	277V	D	P	LG	6"	9.9W	987		WAC AI LATI	
P4	EUREKA	MIKA SERIES	12" LED GLOBE INTERIOR PENDANT WITH CLEAR CABLE AND 0-10V DIMMING, 90 CRI	4000K LED	277V	D	P	LG	12"	9.9W	1062		WAC AI LATI	
Q1	MODA LIGHT	SUPER NEON SERIES	LED FLEXIBLE COVE LIGHT, PROVIDE ALL REQUIRED ACCESSORIES TO CREATE A COMPLETE AND OPERABLE SYSTEM AS SHOWN ON THE PLANS.	4000K LED	24V	D	S	GYP	1-1/8"	5WFT	100 LMFT		LED LINEAR, LIGHT ACCOLYTE, OPTIC ARTS	
S1	JUNO	SLIMFORM SERIES	LED SURFACE MOUNT DOWNLIGHT, 1 1/2" DIAMETER, WIRE DIRECTLY TO J-BOX	4000K LED	277V	D	S	ES	3/4"	19W	1300		DMF LIGHTING	
X1	EVENLITE	RAZOR SERIES	SINGLE FACE EXIT LIGHT, DIE CAST ALUMINUM, UNIVERSAL MOUNT, RED LETTERS	LED	277V	-	UNV	-	-	-	-		LITHONIA, SURE-LITE	
X2	EVENLITE	RAZOR SERIES	DOUBLE FACE EXIT LIGHT, DIE CAST ALUMINUM, UNIVERSAL MOUNT, RED LETTERS	LED	277V	-	UNV	-	-	-	-		LITHONIA, SURE-LITE DUAL-LITE	

BALLAST/DRIVER CODE LISTING: (SEE SPECIFICATIONS)

D LED DIMMABLE POWER SUPPLY (0-10V)
 E LED DIMMABLE POWER SUPPLY (TRAILING EDGE)
 F LED DIMMABLE POWER SUPPLY 1% DIMMING LUTRON HI LUME OR EQUAL
 G LED DIMMABLE POWER SUPPLY ADVANCE XITANIUM OR EQUAL

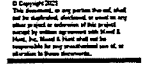
GENERAL NOTES:

- ONLY BALLAST SERIES IS INDICATED ON THIS SCHEDULE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION. EACH FIXTURE SUBMITTAL SHALL BE PROVIDED WITH FULL BALLAST AND LAMP INFORMATION.
- WE SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH RESPECTIVE CEILING TYPES SCHEDULED AND/OR SUBMITTED BY THE GC PRIOR TO ORDERING OF THE LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC CEILING INFORMATION AVAILABLE AT THE TIME BIDDING DOCUMENTS WERE ISSUED AND DOES NOT REFLECT ACTUAL THICKNESS OF GYPSUM WALL BOARD OR PLASTER CEILING OR EXACT GRID TYPE SPECIFIED BY THE ARCHITECT.

KEYED NOTES:

- PERIMETER FIXTURE SHALL BE WALL TO WALL INSTALLATION. LUMINAIRES SHALL BE PROVIDED WITH SLIDING SLEEVE OR EXACT MEASUREMENTS SHALL BE VERIFIED IN FIELD PRIOR TO RELEASING FIXTURE.
- VERIFY ALL COMPONENTS REQUIRED TO CREATE A COMPLETE SYSTEMS AS INDICATED ON PLAN INCLUDING POWER SUPPLIES AND CONNECTION ACCESSORIES.

Mead & Hunt
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 Middleton, WI 53562
 phone: 608-273-6380
 meadhunt.com



CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND
 DRIVER FACILITY IMPROVEMENTS
 1101 EAST WASHINGTON AVE.
 MADISON, WI 53703

040921 BID SET

CONTRACT NO.: 8981
 DRAWING NO.: 4503300-100496.03
 DATE: APRIL 8, 2021
 DESIGNED BY: MAM
 DRAWN BY: KAS
 CHECKED BY: SCJ
 DO NOT SCALE DRAWINGS

SHEET CONTENTS
 LIGHTING
 SCHEDULES

E-601

D. P. G. M. R.

ORIGINAL - 3

ORIGINAL

COMMUNICATIONS GENERAL NOTES

1. REFER TO T-001 FOR NOTES, SYMBOLS, AND ABBREVIATIONS.
2. REFER TO T-500 SERIES FOR DETAILS, AND T-700 SERIES FOR RISER DIAGRAMS.
3. ALL TECHNOLOGY OUTLETS IN THIS AREA TO TERMINATE INTO DATA 1228.
4. ALTERNATE NO. 1, SEE SPECIFICATION 01200 - ALTERNATES AND DRAWING 0131. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING 0131. THIS GENERALLY INCLUDES A BATHROOM/LCKER ROOM, A MAINTENANCE BAY, BODY SHOP, ADJACENT WORKSHOPS AND ASSOCIATED WORK.

Mead & Hunt
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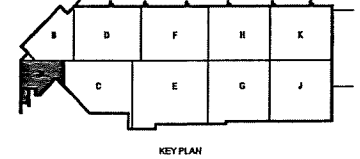
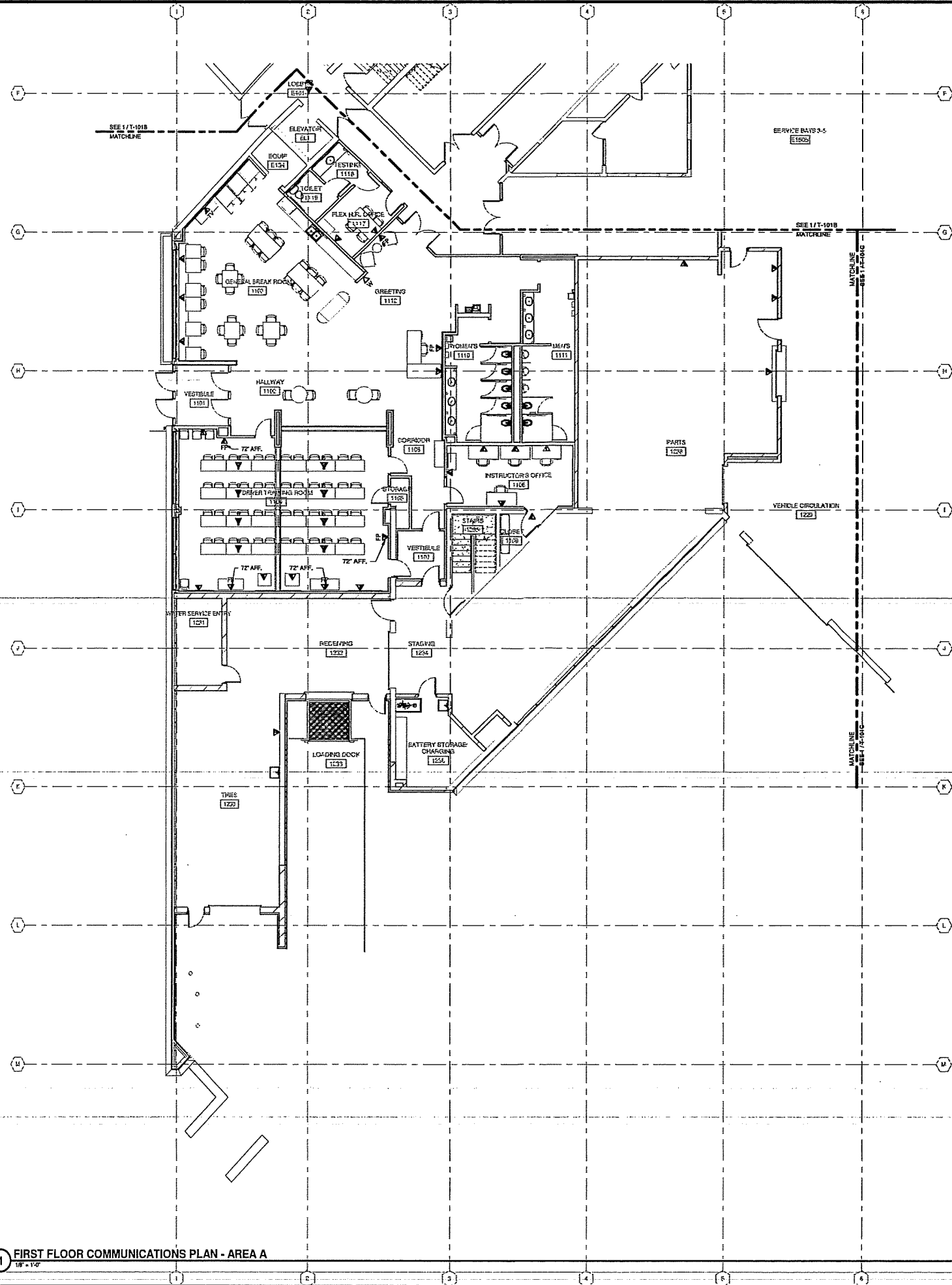
CITY OF MADISON
 METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
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 SCALE: AS SHOWN

SHEET CONTAINS
 FIRST FLOOR COMMUNICATIONS PLAN - AREA A

T-101A



TRUE PLAN
 NORTH NORTH
1 FIRST FLOOR COMMUNICATIONS PLAN - AREA A
 1/8" = 1'-0"

07/2021 1:37:24 PM C:\work\11010816\03-T-101A\Area_A_Madison\Area_A.dwg

SECTION E: BIDDERS ACKNOWLEDGEMENT

CONTRACT TITLE METRO TRANSIT PHASE 3A

CONTRACT NO. 8981

Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2021 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. 1 through 3 issued thereto, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. (IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).
5. I hereby certify that all statements herein are made on behalf of J.P. Cullen & Sons, Inc. (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of Wisconsin a partnership consisting of N/A; an individual trading as N/A; of the City of Janesville State of Wisconsin; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf, and that the said statements are true and correct.

SIGNATURE

Vice President

TITLE, IF ANY

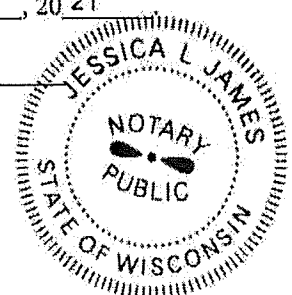
Sworn and subscribed to before me this 27th day of May, 2021

Jessica L James Jessica L James

(Notary Public or other officer authorized to administer oaths)

My Commission Expires February 1, 2025

Bidders shall not add any conditions or qualifying statements to this Proposal.



Contract 8981 – J. P. Cullen & Sons, Inc.

Section F: Best Value Contracting (BVC)

This section is a required document for the bid to be considered complete. There are two methods for completing the Best Value Contracting (BVC) form. Method one: The form can be filled out online and submitted to this site to be included with your electronic bid. Method two: The form can be downloaded from the site and submitted by hand to the City of Madison.

Method of Submittal for BVC (click in box below to choose) *

I will submit Bid Express fillable online form (BVC).

Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.

No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.

Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.

First time contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.

Contractor has been in business less than one year.

Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade.

An exemption is granted in accordance with a time period of a "Documented Depression" as defined by the State of Wisconsin.

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

- The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- BRICKLAYER
- CARPENTER
- CEMENT MASON / CONCRETE FINISHER
- CEMENT MASON (HEAVY HIGHWAY)
- CONSTRUCTION CRAFT LABORER
- DATA COMMUNICATION INSTALLER
- ELECTRICIAN
- ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- GLAZIER
- HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- INSULATION WORKER (HEAT and FROST)
- IRON WORKER
- IRON WORKER (ASSEMBLER, METAL BLDGS)
- PAINTER and DECORATOR
- PLASTERER
- PLUMBER
- RESIDENTIAL ELECTRICIAN
- ROOFER and WATER PROOFER
- SHEET METAL WORKER
- SPRINKLER FITTER
- STEAMFITTER
- STEAMFITTER (REFRIGERATION)
- STEAMFITTER (SERVICE)
- TAPER and FINISHER
- TELECOMMUNICATIONS (VOICE, DATA and VIDEO) INSTALLER-TECHNICIAN
- TILE SETTER

CONTRACT NO. 8981

Small Business Enterprise Compliance Report

This information may be submitted electronically through Bid Express or submitted with bid in sealed envelope.

Cover Sheet

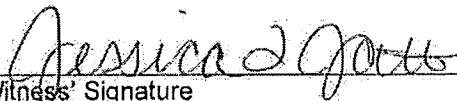
Prime Bidder Information

Company:	J.P. Cullen & Sons, Inc.
Address:	330 E Delavan Drive, Janesville, WI 53546
Telephone Number:	608-754-6601
Fax Number:	608-754-9171
Contact Person/Title:	Jeremy Shecterle - Vice President

Prime Bidder Certification

Name:	Jeremy Shecterle
Title:	Vice President
Company:	J.P. Cullen & Sons, Inc.

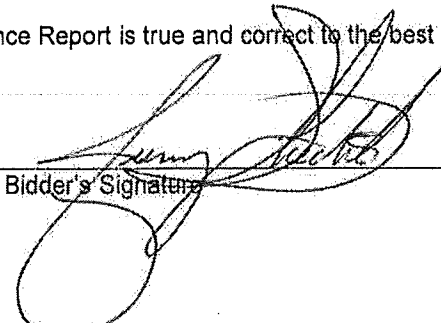
I certify that the information contained in this SBE Compliance Report is true and correct to the best of my knowledge and belief.



Witness' Signature

5/27/2021

Date



Bidder's Signature

CONTRACT NO. 8981

Small Business Enterprise Compliance Report

Summary Sheet

SBE Subcontractors Who Are NOT Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount	
Par-Loc, Inc	Toilet Partitions	0.12	%
Mobile Glass Inc	Glass/Glazing	0.76	%
Early Bird Painting	Painting	1.29	%
Hunt & Collins	HVAC	15.18	%
Garage Door Express	Overhead Door	0.87	%
			%
			%
			%
			%
			%
			%
			%
			%
			%
Subtotal SBE who are NOT suppliers:		<u>18.21</u>	%

SBE Subcontractors Who Are Suppliers

Name(s) of SBEs Utilized	Type of Work	% of Total Bid Amount	
			%
			%
			%
			%
			%
			%
Subtotal Contractors who are suppliers:		<u>0</u>	% x 0.6 = <u>0</u> % (discounted to 60%)
Total Percentage of SBE Utilization:		<u>18.21</u>	%.

METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS

CONTRACT NO. 8981

DATE: 5/27/2021

J. P. Cullen & Sons, Inc.

Item	Quantity	Price	Extension
Section B: Proposal Page			
90000 - Base Bid - Lump Sum	1.00	\$8,653,930.00	\$8,653,930.00
Section B: Proposal Page Alternate 1			
90001 - ALTERNATE NO. 1. SEE SPECIFICATION 012300 - ALTERNATES AND DRAWINGS AD101F AND A-101F. ALL WORK ASSOCIATED WITH AREA F, FIRST FLOOR ONLY, AS IDENTIFIED PER DRAWING G131. THIS GENERALLY INCLUDES ROOMS 1301, 1302, 1303, 1304, 1305, 1306, 1308, 1309, 1311, ALONG WITH ALL ASSOCIATED STRUCTURAL, EQUIPMENT, FIRE PROTECTION, PLUMBING, HVAC, ELECTRICAL AND COMMUNICATIONS SYSTEMS. - Lump Sum			
	1.00	\$759,017.00	\$759,017.00
2 Items	Totals		\$9,412,947.00

SECTION G: BID BOND

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, THAT Principal and Surety, as identified below, are held and firmly bound unto the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

METRO TRANSIT PHASE 3A - MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS CONTRACT NO. 8981

1. If said bid is rejected by the Obligee, then this obligation shall be void.
2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

Seal PRINCIPAL



J.P. Cullen & Sons, Inc.

Name of Principal

Michael M. Griffin

May 27, 2021

By

Date

Michael M Griffin, CFO

Name and Title

Seal SURETY



Travelers Casualty and Surety Company of America

Name of Surety

Tina L. Domask

May 27, 2021

By

Date

Tina L. Domask, Attorney-in-Fact

Name and Title

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Provider No. 17584644 for the year 2021, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

May 27, 2021

Date

Tina L. Domask

Agent Signature

c/o CSDZ, LLC
1600 Aspen Commons, Suite 990

Address

Middleton, WI 53562

City, State and Zip Code

608.242.2550

Telephone Number

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees shall be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Tina L. Domask of Middleton, Wisconsin**, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this **3rd** day of **February**, 2017.



State of Connecticut

City of Hartford ss.

By:
Robert L. Raney, Senior Vice President

On this the **3rd** day of **February**, 2017, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June**, 2021



Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this **27th** day of **May**, 2021



Kevin E. Hughes, Assistant Secretary

**To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.**

SECTION H: AGREEMENT

THIS AGREEMENT made this 17th day of June in the year Two Thousand and Twenty-One between J. P. CULLEN & SONS, INC. hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted JUNE 15, 2021, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS

CONTRACT NO. 8981

2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion. SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.

3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of NINE MILLION FOUR HUNDRED TWELVE THOUSAND NINE HUNDRED FORTY-SEVEN AND NO/100 (\$9,412,947.00) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.

4. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered.

The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement
Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.
2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.
3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or ten thousand dollars (\$10,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms "DBE, MBE and WBE" shall be substituted for the term "small business" in this Article.)

5. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.
6. **Contractor Hiring Practices.**

Ban the Box - Arrest and Criminal Background Checks. (Sec. 39.08, MGO)

This provision applies to all prime contractors on contracts entered into on or after January 1, 2016, and all subcontractors who are required to meet prequalification requirements under MGO 33.07(7)(I), MGO as of the first time they seek or renew pre-qualification status on or after January 1, 2016. The City will monitor compliance of subcontractors through the pre-qualification process.

- a. **Definitions.** For purposes of this section, "Arrest and Conviction Record" includes, but is not limited to, information indicating that a person has been questioned, apprehended, taken into custody or detention, held for investigation, arrested, charged with, indicted or tried for any felony, misdemeanor or other offense pursuant to any law enforcement or military authority.

"Conviction record" includes, but is not limited to, information indicating that a person has been convicted of a felony, misdemeanor or other offense, placed on probation, fined, imprisoned or paroled pursuant to any law enforcement or military authority.

"Background Check" means the process of checking an applicant's arrest and conviction record, through any means.

- b. **Requirements.** For the duration of this Contract, the Contractor shall:

1. Remove from all job application forms any questions, check boxes, or other inquiries regarding an applicant's arrest and conviction record, as defined herein.
2. Refrain from asking an applicant in any manner about their arrest or conviction record until after conditional offer of employment is made to the applicant in question.
3. Refrain from conducting a formal or informal background check or making any other inquiry using any privately or publicly available means of obtaining the arrest or conviction record of an applicant until after a conditional offer of employment is made to the applicant in question.
4. Make information about this ordinance available to applicants and existing employees, and post notices in prominent locations at the workplace with information about the ordinance and complaint procedure using language provided by the City.
5. Comply with all other provisions of Sec. 39.08, MGO.

c. Exemptions: This section shall not apply when:

1. Hiring for a position where certain convictions or violations are a bar to employment in that position under applicable law, or
2. Hiring a position for which information about criminal or arrest record, or a background check is required by law to be performed at a time or in a manner that would otherwise be prohibited by this ordinance, including a licensed trade or profession where the licensing authority explicitly authorizes or requires the inquiry in question.

To be exempt, Contractor has the burden of demonstrating that there is an applicable law or regulation that requires the hiring practice in question, if so, the contractor is exempt from all of the requirements of this ordinance for the position(s) in question.

**METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY
IMPROVEMENTS
CONTRACT NO. 8981**

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused this contract to be sealed with its corporate seal and to be executed by its Mayor and City Clerk on the dates written below.

Countersigned:

J. P. CULLEN & SONS, INC.

[Signature] 6-17-21
Witness Date

[Signature] 6/17/21
Witness Date

Company Name
J. P. Cullen & Sons, Inc. 6/17/21
President Date

[Signature] 6/17/21
Secretary Date

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

[Signature] 6/28/21
Finance Director Date

[Signature] 6/30/21
Witness Date

[Signature] 6-22-21
Witness Date

[Signature] 6/28/21
City Attorney Date

[Signature] 6/30/21
Mayor Date

[Signature] 6/22/21
City Clerk Date

Bond No. 107305773

SECTION I: PAYMENT AND PERFORMANCE BOND

LET ALL KNOW BY THESE DOCUMENTS PRESENTED, that we J. P. CULLEN & SONS, INC. as principal, and Travelers Casualty and Surety Company of America Company of Hartford, CT as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of NINE MILLION FOUR HUNDRED TWELVE THOUSAND NINE HUNDRED FORTY-SEVEN AND NO/100 (\$9,412,947.00) Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

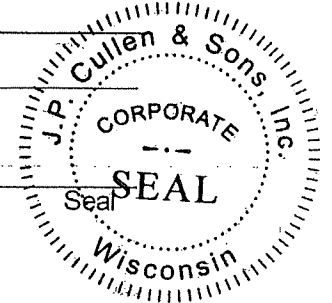
**METRO TRANSIT PHASE 3A – MAINTENANCE AND DRIVER FACILITY IMPROVEMENTS
CONTRACT NO. 8981**

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this 17th day of June, 2021

Countersigned:

J. P. CULLEN & SONS, INC.
Company Name (Principal)



[Signature]
Witness
[Signature]
Secretary

[Signature]
President

Approved as to form:

Travelers Casualty and Surety Company of America

Surety Seal
 Salary Employee Commission

[Signature]
City Attorney

By [Signature]
Attorney-in-Fact Tina L. Domask

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under National Producer Number 17584644 for the year 2021, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

June 17, 2021
Date

[Signature]
Agent Signature Tina L. Domask



**Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company
St. Paul Fire and Marine Insurance Company**

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Tina L. Domask of Middleton, Wisconsin, their true and lawful Attorney-in-Fact to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 3rd day of February, 2017.



State of Connecticut

City of Hartford ss.

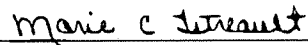
By: 
Robert L. Raney, Señor Vice President

On this the 3rd day of February, 2017, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2021




Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

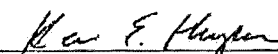
FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, and St. Paul Fire and Marine Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 17th day of June, 2021




Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney-in-Fact and the details of the bond to which the power is attached.