GRUNDY COUNTY
TRANSIT SYSTEM BUILDING
BUILDING ADDITION AND SITE IMPROVEMENTS
MORRIS, ILLINOIS
APRIL, 2024

INDEX OF SHEETS

MECHANICAL SHEETS

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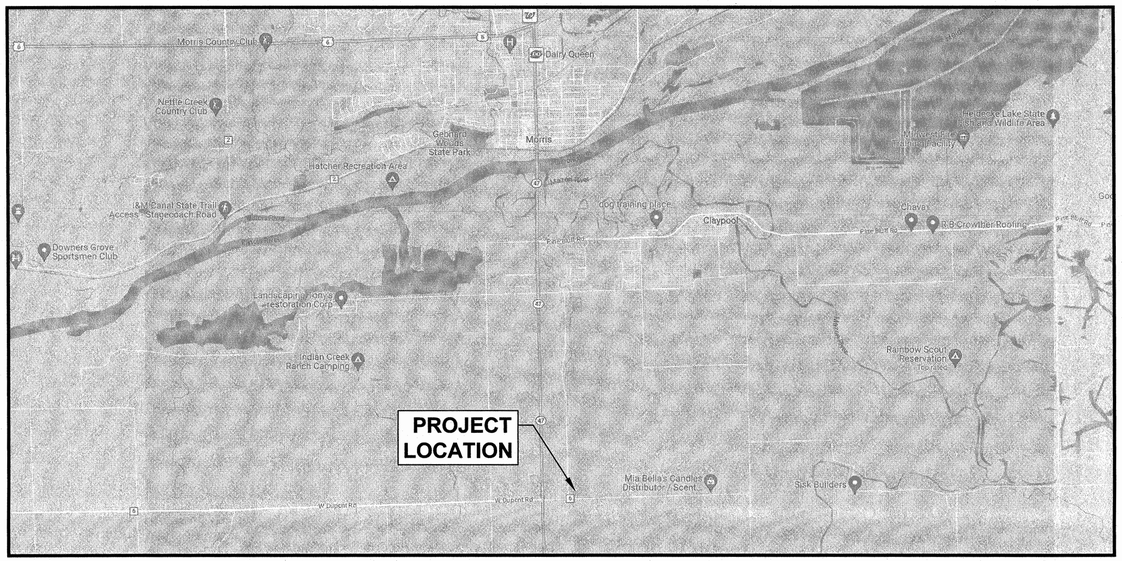
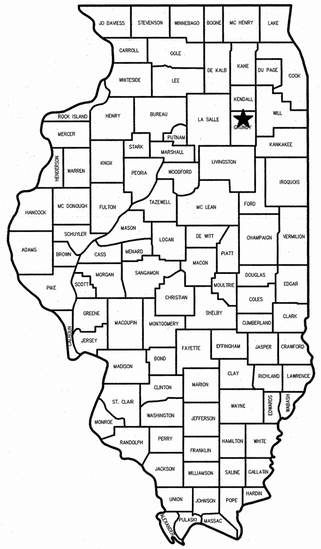


LOCATION MAP
N.T.S.



LOCATION OF PROJECT INDICATED THUS: ★

BENCHMARKS

BM – XXXXX
ELEV. = XXX.XX

SURVEYOR / ENGINEER:

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expires 11-30-2024
PROFESSIONAL DESIGN FIRM LICENSE NO. 184-001717

LICENSED PROFESSIONAL ENGINEER — THOMAS L. CLARK 062-069816 — STATE OF ILLINOIS
LICENSE EXPIRES 11/30/25

CALL JULIE TOLL FREE 1-800-892-0123

Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

		REVISIONS			
DRAWN BY: RH	LEVEL	BY	DATE	DESCRIPTION
CHECKED BY: TLC				
DATE: 01/04/2024				

BIDDING

CURRENT AS OF: 01/04/2024	
SCALE: AS NOTED	SHEET C
FILE NO.: 2452-00 Y-	OF

Drawing Name: R:\USERS\2\2452-00 - Grundy Co Transit New Bus Garage\CAD\SHEETS\000-COVER.dwg Last Modified: Tuesday, April 9, 2024 11:42:39 AM Plotted On: Tuesday, April 9, 2024 11:46:29 AM by Tom Clark

GENERAL NOTES

The Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" and Supplemental Specifications and Recurring Special Provisions (latest edition) and the "Standard Specifications for Water and Sewer Construction in Illinois" (latest edition) shall govern applicable portions of this project.

It shall be the responsibility of the Contractor to examine the Plans and Specifications, visit the work site, be informed of the work involved, be informed of federal, state, and local laws, local code requirements, ordinances, rules and regulations, and any other items which may affect the cost and/or time to complete the project. It is the Contractor's responsibility to notify the Engineer should any discrepancies be noticed between the Plans, Specifications, or work site.

It shall be the responsibility of the Contractor to examine the Plans, Specifications, and documents during the preparation of the bid. The Contractor shall be solely responsible for determining all the necessary labor, materials, tools, expendable equipment, and transportation to perform the work in a workmanlike manner. The Engineer is not responsible for determination of any such items, any quantities given in these plans are for informational purposes only. Work will be paid for per the Agreement with the Owner.

The location of existing underground or overhead utilities if shown on the Plans is for the convenience of the Bidder only. The Owner and/or Engineer assumes no responsibility whatsoever with respect to the accuracy or completeness of the information shown. It shall be the responsibility of the Contractor to determine the actual location of all such utilities.

The Contractor shall be responsible for the proper protection of all existing public or private roadways, structures, and utilities prior to the start of construction and shall be responsible for any damage to said roadways, structures, and utilities. Any roadway, structure, or utility that is damaged during construction shall be repaired or replaced by the Contractor at the Contractor's expense.

All field tile lines encountered during construction shall be routed around the site. This work shall be performed at the unit price per linear foot bid for ≤10" diameter or ≥12" diameter tile for actual feet installed in accordance with the IDOT Standard Specifications. The amount of 100 LF for each tile designation shall be included within the base bid. The location, depth, and size of any encountered filed tile shall be recorded on the as-built plans.

The Engineer and Owner are not responsible for the construction means, methods, techinques, sequences of procedures, time of performance, programs or for any safety precautions used by the contractor. The contractor is solely responsible for the execution of his/her work in accordance with the contract document and specifications.

When survey control points are set by the Engineer to establish the horizontal and vertical control required for the construction of the various contract items of work, the Engineer shall be responsible for the accuracy of the control points set. The Contractor shall assume full responsibility for all measurements taken or derived by the Contractor from control points set by the Engineer.

The Contractor shall protect and preserve all control points or reference stakes set by the Engineer. Should the Contractor disturb any control point or reference stake without the prior approval of the Engineer, the Engineer may deduct the direct engineering cost incurred in the re-establishment of the control point or reference stake from compensation due the Contractor.

Traffic control shall be in accordance with applicable portions of the Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction" and Supplemental Specifications and Recurring Special Provisions (latest edition) and the latest edition of the "Illinois Manual for Uniform Traffic Control for Streets and Highways". The Contractor shall be solely responsible for use of appropriate Illinois Department of Transportation Highway Standards pertaining to traffic control for the entire duration of the project and solely liable for any accidents, which may occur due to inadequate traffic control.

All public roadways shall remain open throughout the project unless prior consent is granted by the Municipality for any Contractor-requested roadway closures. The Contractor shall make arrangements or schedule work so that access to properties within the work site is maintained at all times.

Should hazardous materials be encountered during construction, the Contractor shall immediately notify the Owner or Owner's Representative.

Unless otherwise provided, traffic control shall be considered incidental to the contract.

All clean construction demolition debris (CCDD) certification/disposal (if required) shall be the responsibility of the Contractor.

When requested by the Owner, the Engineer shall provide construction inspection to ascertain the work is in substantial conformance with the Contract Documents and with the design intent. The Engineer's undertaking shall not relieve the Contractor from the Contractor's obligation to perform work in conformity with the Plans and Specifications and in a workmanlike manner, shall not make the Engineer an insurer of the Contractor's performance; and shall not impose upon the Engineer any obligation to ensure that the work is performed in a safe manner. The Contractor shall be to tally responsible for safety for this project.

The Contractor shall record the vertical and horizontal locations of all pipe bends, valves, manholes, sewer service taps and all additional information necessary for the preparation of "As Constructed" plans. The "As Constructed" plans will be prepared by the Owner or Owner's Representative.

Handicap parking stalls to have pavement markings and signage that meets the specifications identified in the Illinois Accessibility Code. All handrails installed along accessible routes shall meet the specifications identified in the Illinois Accessibility Code.

There is no regulatory floodplain on subject site per FEMA Firm No. 17063C0125F, Effective date August 2, 2012.

There is no mapped wetlands on site per U.S. Fish and Wildlife Service National Wetlands Inventory Map.

EROSION CONTROL

Soil erosion and sediment control shall be in accordance with applicable portions of the Illinois Urban Manual, latest edition.

Provisions shall be made to minimize the transport of sediment by vehicular traffic from the construction site. All public streets shall be cleaned daily or as directed by the city representative to keep clean of sediment and debris caused by construction activities. Adjacent properties shall be protected from sediment deposition by use of an acceptable erosion control practice such as vegetative buffer strips or sediment barriers. Should an erosion control item not be included as a Bid Item or not be addressed per Special Provision and be determined necessary by the Engineer, those items will be paid for at a pre-approved unit price.

For construction sites with one (1) acre or more of disturbance, all Contractors and Sub-Contractors will be required to certify a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP, if necessary, and all permits pertaining to soil and erosion control will be prepared and submitted by the Owner/Engineer.

It will be the Contractor/Sub-Contractor's responsibility to implement and follow the SWPPP.

Installation, maintenance, and removal of erosion control devices shall be paid for at the lump sum price for erosion control. Contractor shall employ all erosion control devices as shown on the plans, applicable IDOT Roadway Standards, and applicable Illinois Urban Manual Standards. A temporary concrete washout facility shall be constructed as depicted on the plan if concrete trucks will wash out at the work site.

It will be the Contractor/Sub-Contractor's responsibility to implement and follow the SWPPP.

A copy of the Notice of Intent and/or NPDES Permit along with the associated SWPPP shall be provided to Grundy County.

WATER MAINS/WATER SERVICES

The Contractor shall provide all labor, materials, tools, and equipment necessary to construct the water main as detailed on the Plans and in the Specifications.

All water mains shall have a minimum cover of four and one-half feet (4.5').

All water services shall have a minimum cover of four and one-half feet (4.5').

Water service lines shall be protected from sanitary sewers, storm sewers, sewer service connections and drains in accordance with Title 35, Environmental Protection Agency Subtitle F; Public Water Supplies, Chapter II; Environmental Protection Agency, Parts 651-654 Technical Policy Statements, Section 653.119.

Water mains shall be separated from septic tanks, leach disposal fields and seepage beds by a minimum distance of twenty-five (25) feet.

Water main construction shall be in strict accordance with the "Standard Specifications for Water & Sewer Main Construction in Illinois" latest edition except where noted otherwise on the Plans or in the Specifications.

Bedding, haunching, and initial backfill shall be supplied by the Contractor and placed in accordance with the Standard Specifications and shall be considered incidental to the water main/service installation. Class 1A material, crushed stone or crushed gravel, gradation (CA 7), shall be used for bedding, haunching, and initial backfill.

Trench backfill shall be required for final backfill for all water mains/services that are constructed under or within two (2) feet of the edge of existing or proposed pavements, sidewalks, curb and gutters, or other paved surfaces. In all other locations, final backfill shall consist of excavated material.

Excavation for all water mains and water services shall be in accordance with Section 20-4.05 of the Standard Specifications. All water mains and water services shall be bedded in accordance with ASTM specification D2321 and section 20-3.01 of the Standard Specifications. Bedding shall be placed the entire width of the trench from 4" below the outside diameter of the pipe.

Trench backfill shall be in accordance with Section 208 if the IDOT Standard Specifications.

WATER MAIN PIPE MATERIAL

Water main pipe shall comply with, "The Standard Specifications for Water and Sewer Construction in Illinois, latest edition.

All water mains shall be polyvinyl chloride (PVC) AWWA C900 or C905 Type DR-18, with a pressure rating of 235 (PR 235). ASTM D 1784 for PVC compounds and ASTM D3139 with push-on joints in accordance with ASTM F477.

The type of water main material to be used will be as specified on the plans and/or in the schedule of quantities. Water Service pipe shall be Type K copper in accordance with ASTM B88 AND ASTM B251 for

1 " services less than 1 polyvinyl chloride (PVC) AWWA C900 . Water Service pipe 2" and larger shall be ≥ DR14.

Tracer wire to be installed with all water mains and services. The wire shall be 12 gauge solid copper wire that is covered, insulated and manufactured for direct bury use. The wire shall be installed by taping to the top of the water main at minimum 10 foot intervals. All wires shall be brought to the surface at all fire hydrant locations. All wire splices shal be made with a split bolt connector and wrapped with electrician's tape.

WATER MAIN FITTINGS

The Contractor shall provide all labor, tools, and equipment necessary to install water main fittings at locations indicated on the Plans.

Pipe fittings shall be cement lined mechanical joint ductile iron conforming to ANSI specifications, ANSI A-21.10, ANSI A-21.11, AWWA C-100, and AWWA C-111, or ductile iron compact fitting form conforming to the latest ANSI A21.53-00/AWWA C153 for fittings 12" or less. All fitting shall be capable of withstand a working pressure of 250 psi. All fitting shall be furnished with transition gaskets, retainer glands, and stainless-steel bolts in order to fit mechanical joint fitting to PVC Water Main.

Retainer glands or anchor couplings ("Mega-Lug" or approved equal) shall be used with all mechanical joint connections and shall be designed for installation on the type of water main specified. All retainer glands shall have one (1) retainer bolt per flange bolt.

Thrust blocking shall be required in accordance with AWWA Manual M23. Thrust developed for each fitting shall be calculated using Table 19. 1000 psf soil bearing shall be used to calculate the thrust block size unless soil bearing tests are conducted by the Contractor. Solid concrete thrust blocks shall be supplied by the Contractor and installed at all fittings. Thrust blocking shall be positioned at locations as shown on the Standard Specifications, Typical Thrust Block Installations Standard Detail.

VALVE W/BOX

The Contractor shall provide all labor, tools, and equipment necessary to install valves and valve boxes at locations indicated on the Plans.

All water main valves shall be American Flow Control Series 2500, Mueller A-2360-23, or Clow C509-2639 (OR APPROVED EQUAL) resilient wedge gate valves for 200 psi working pressure with non-rising stem and ALPHA ENDS. All valves shall be furnished with transition gaskets and stainless steel bolts in order to fit the valve to the Water Main. Each valve shall be furnished with an adjustable cast iron valve box with a cover marked "Water". The nut shall have the word "Open" and an arrow cast in the metal to indicate the direction to open. A valve box stabilizer meeting City approval shall be used between the valve and the valve box.

WATER MAIN TESTING AND DISINFECTING

The water main shall be disinfected in accordance with the Standard Specifications. The Contractor shall supply all materials, equipment, and labor necessary for testing and disinfecting the water main and shall be responsible for collecting water samples and having bacteriological testing performed as required by the Illinois Environmental Protection Agency. The Contractor shall furnish all test results necessary to the Engineer for submittal to the Environmental Protection Agency prior to placing the water main in service.

The water main shall be pressure tested in accordance with Section 41-2.14 of the Standard Specifications – ISPE except that the test pressure shall be 150 psi. If necessary, a 1" corporation stop and saddle shall be provided at all dead ends for the purpose of bleeding air prior to the pressure test. Chlorinated water with a minimum concentration of 50 PPM shall be supplied by the Contractor and pumped into the water main for testing purposes. Upon successful pressure testing, water used for testing purposes shall be drained from the water main. Successful testing shall be considered a condition of acceptance of the water main.

The Contractor is responsible for the coordination of testing and disinfecting the new water main and shall notify the Owner and Operator a minimum of twenty four (24) hours in advance of the requested time for observation of the pressure and leakage test. All testing shall be in accordance with the Standard Specifications.

SANITARY SEWERS / SANITARY SERVICES

GENERAL

The Contractor shall provide all labor, materials, tools, and equipment necessary to construct the sanitary sewer system as detailed on the Plans and in the Specifications.

Water service lines shall be protected from sanitary sewer, storm sewers, sewer service connections and drains in accordance with Title 35, Environmental Protection Agency Subtitle F; Public Water Supplies, Chapter 11; Environmental Protection Agency, Parts 651-654 Technical Policy Statements, Section 653.119.

Sanitary sewer main construction shall be in strict accordance with the "Standard Specifications for Water & Sewer Main Construction in Illinois" latest edition except where noted otherwise on the Plans or in the Specifications.

Pumping of groundwater, sanitary waste bypass pumping, or any other pumping shall be considered incidental to the cost of the sanitary sewer unless otherwise specified.

Any excess excavated material, removed structures, or debris shall be removed from the site and properly disposed of at the Contractor's expense.

Where requested by the Engineer, foundation material shall be placed at locations where unsuitable soils exist or other site conditions warrant foundation material use. Foundation material shall be Type B CA-7.

Bedding, haunching, and initial backfill shall be placed in accordance with ASTM Standard D2321 and shall be considered incidental to the sanitary sewer. Class 1A material, crushed stone or crushed gravel, gradation (CA-7), shall be used for bedding, haunching, and initial backfill.

Trench backfill shall be required for all pipes that are constructed under or within two (2) feet of the edge of existing or proposed pavements, sidewalks, curb and gutters, or other paved surfaces.

Excavated material shall be used for final backfill for all areas not designated for trench backfill.

Trench backfill shall be in accordance with Section 208 of the IDOT Standard Specifications.

SANITARY SEWER PIPE MATERIAL

All work shall be performed in accordance with Section 31 of the Standard Specifications. Materials for the Sanitary Sewer Mains shall be polyvinyl chloride (PVC) pipe, Standard Dimension Ratio (SDR) 26 in accordance with Section 30-4.04 of the Standard Specifications – ISPE and in conformance with ASTM D3034 and ASTM D1784 or ASTM F679 with elastomeric gaskets in accordance with ASTM D3212 and ASTM F477. The type of sanitary sewer pipe material to be used will be as specified on the plans and/or in the schedule of quantities. Fittings are considered incidental to the contract and may not be called out on the plans. All services to be installed with a tracer line.

Materials for the Sanitary Service Sewers shall be polyvinyl chloride (PVC) pipe, Standard Dimension Ratio (SDR) 26 in accordance with Section 30-4.04 of the Standard Specifications (ISPE) and in conformance with ASTM D3034 and ASTM D1784 or ASTM F679 with elastomeric gaskets in accordance with ASTM D3212 and ASTM F477.

Wyes or Insert-A-Tee type fittings shall be used to connect all sanitary service sewers to the sanitary sewer mains. All sanitary service sewers shall terminate at locations indicated on the Construction Drawings or at the approximate property line. Caps, capable of withstanding sanitary sewer test pressures, shall be installed and secured at the ends of all service sewers. A metal fence post shall be used to locate the end of all sanitary service sewers with the top of the fence post placed at six inches (6") below finished grade. If required, risers shall be installed at a 1:1 maximum slope.

SANITARY MANHOLE

All Work shall be performed in accordance with Section 32 of the Standard Specifications – ISPE. Sanitary manholes shall be constructed of precast concrete sections in accordance with the City of Ottawa's Standard Sanitary Manhole Type A Detail and ASTM C478, ASTM C990, and ASTM C443 with cast iron steps in accordance with ASTM A48. Manhole pipe connections shall have flexible elastomeric gaskets cast in place during fabrication. When manholes are installed over existing sanitary sewers, resilient water-stop type connectors in accordance with ASTM C923 shall be used. All joints between precast manhole sections shall be in accordance with ASTM C990 and ASTM C443.

All sanitary manholes shall include a frame and lid marked "SANITARY". Acceptable products are as follows: Neenah R-1713 or East Jordan E-1050Z1

All sanitary manholes shall include an external chimney seal. Acceptable products are as follows: Cretex Adaptor Inc.

All sanitary manholes shall be vacuum tested in accordance with Section 32-12 of the Standard Specifications – ISPE.

Frames shall be installed with external rubber chimney seals. ("Wrapidseal" or equal)

SANITARY SEWER SYSTEM TESTING

Sanitary sewer mains shall be tested in accordance with the Standard Specifications. The entire sanitary sewer system shall be tested and the following tests shall be performed:

DEFLECTION TESTING FOR FLEXIBLE THERMOPLASTIC PIPE
AIR TESTING

Manholes shall be air tested for leakage in accordance with ASTM C1244-02, Standard Test Method for Concrete Sewer Manholes by the Negative Air Pressure (Vacuum) Test.

All manholes shall be constructed with at least one, but no more than three, precast concrete adjustment ring, maximum 3" height.

STORM SEWER & STRUCTURES

The storm sewer material shall be reinforced concrete pipe with bell end and rubber gaskets in accordance with the applicable parts of Section 550 and 1056 of the Roadway Specifications unless otherwise noted. Pipe shall be Ty IV.

Corrugated polyethylene storm pipe shall be Advanced Drainage Systems N-12 Dual Wall pipe and shall be in accordance with the applicable parts of Section 550/1040 of the Roadway Specifications and Advance Drainage System's manufacture specifications.

PVC storm pipes shall be polyvinyl chloride (PVC) type SDR-26 conforming to ASTM D3034 with flexible elastomeric joints conforming to ASTM D3212 and Article 1040.03 of the IDOT Standard Specifications.

Installation of storm sewers and structures shall be in accordance with the IDOT Standard Specifications for Road and Bridge Construction, latest edition.

Storm sewer materials shall be as specified in the IDOT Standard Specification for Road and Bridge Construction, latest edition and the Standard Specifications for Water and Sewer Construction in Illinois.

All storm sewer pipe, regardless of material type, shall be bedded with a minimum of 6" of crushed stone or rounded aggregate meeting the requirements of CA-7 gradation. The pipe shall be backfilled to at least the center of the pipe with the CA-7 aggregate material. The remainder of the trench shall be backfilled with select excavated material or trench backfill. All unsuitable or unstable material encountered shall be removed and replaced with bedding material meeting the requirements of these Special Provisions.

Drainage structures shall be in accordance with the applicable parts of Section 602 of the Roadway Specifications and Highway Standards.

All inlets shall be supplied with a frame and grate or grate as specified on the plans.

AGGREGATE SUBGRADE IMPROVEMENT

Construct Aggregate Subgrade Improvement in accordance with Section 303 of the IDOT Standard Specifications, as added by adoption of BDE Special Provision #2 (80274). Crushed stone and crushed reclaimed asphalt pavement (RAP) may be used as allowed by the Specification Section. Aggregate placement shall be in lifts not to exceed 12". Capping layer shall be 3" thick and shall be CA-6 or CA-10.

AGGREGATE BASE COURSE

Areas that will receive PCC sidewalk or curb and gutter shall have aggregate base course installed in accordance with details shown on the Plans. Prepare areas for base course in accordance with Section 301 of the IDOT Standard Specifications. Aggregate Base Course Type B shall be installed in accordance with Section 351 of the IDOT Standard Specifications. Material allowed shall be either IDOT Gradation CA-6 or CA-10.

HOT-MIX ASPHALT BINDER AND SURFACE COURSE

Construct hot-mix asphalt binder and surface courses in accordance with Section 406 of the IDOT Standard Specifications and the pavement section details shown on the Plans.

PORTLAND CEMENT CONCRETE PAVEMENT

Construct reinforced portland cement concrete pavement in accordance with Section 420 of the IDOT Standard Specifications and the pavement section details shown on the Plans. Transverse joint dowel bars shall be in accordance with IDOT Standard Specs 1006.11. Refer to BLR 10-7 Standard for joint layout and spacing. Geotextile fabric shall be in accordance with 1080.02. Interrupt panel reinforcement at doweled joints. Welded Wire Reinforcement shall be in accordance with 1006.10.

PORTLAND CEMENT CONCRETE SIDEWALK

Construct reinforced portland cement concrete pavement in accordance with Section 424 of the IDOT Standard Specifications and the sidewalk details shown on the Plans.

BARRIER CONCRETE CURB

Construct reinforced barrier concrete curb in accordance with Section 606 of the IDOT Standard Specifications and the details shown on the Plans. Install doweled ¾" expansion joints at 50-ft maximum centers. Dowel bars shall be in accordance with IDOT Standard Specs 1006.11.

COMBINATION CONCRETE CURB AND GUTTER

Construct reinforced combination concrete curb and gutter in accordance with Section 606 of the IDOT Standard Specifications and the details shown on the Plans. Install doweled ¾" expansion joints at 50-ft maximum centers. Dowel bars shall be in accordance with IDOT Standard Specs 1006.11.

PAINT PAVEMENT MARKING

Install paint pavement lines and symbols as shown on the Plans and in accordance with Section 780 of the IDOT Standard Specifications. Paint shall be in strict compliance with Section 1095.02 of the IDOT Standard Specifications. Submit technical data sheets for paint mix to Architect at least 30 days before installation of paint pavement markings.

STANDARD APERTURE GEOGRID (TX5)

Use Tensar TX5 or approved equal. Install in accordance with manufacturer instructions. Install 6" minimum aggregate overtop before driving over with mechanical equipment.

LANDSCAPING

Planting of trees and shrubs shall be in accordance with Section 707 of the Illinois Urban Manual, latest addition and planting details shown on the Plans.

TURF RESTORATION

All disturbed areas not paved or landscaped shall receive 4 inches of top soil with IDOT seeding, fertilizer nutrients and mulch. Seeding shall be IDOT Class 1 mixture in accordance with section 250 IDOT Standard Specifications. provide 1:1:1 ratio N-P-K fertilizer applied at a total rate of 270 pounds per acre. Mulch shall be Method 2, applied in accordance with Section 251 of the Roadway Specifications. On slopes 3H:1V and steeper, erosion control blanket shall be installed.

Disturbed areas shall include all bare soils as well as any areas that have been disturbed by incidental construction operations that will require regrading and/or interseeding as directed by the Architect. Topsoil shall be sourced from onsite temporary stockpile from regrading and excavations. Topsoil shall be placed in accordance with Sections 211 and 212 and seedbed shall be prepared in accordance with Section 250.

TREE REMOVAL

Tree removal as shown on Plans and as necessary to construct proposed improvements shall be in accordance with Section 201 of the IDOT Standard Specifications. Tree rootballs shall be removed in their entirety and disposed of offsite. All tree removal and disposal shall be in accordance with all applicable laws and regulations.

REMOVAL OF EXISTING UTILITY LINES AND STRUCTURES

Remove existing sewer and water lines and associated structures identified on the Plans. Lines that are not being removed and replaced in same location shall be removed entirely and backfilled with trench backfill if under or within 2-ft of the edge of existing or proposed pavements, sidewalks, curb and gutters, playground area or other paved surfaces. Lines that are not being removed and replaced in same location shall have downstream connections fully capped using non-shrink grout at the downstream structure. Perform all removal in accordance with Section 440 of the IDOT Standard Specifications. COORDINATE WITH OWNER AND ARCHITECT FOR ACCEPTABLE INTERRUPTION INTERVAL OF ANY UTILITY BEFORE PERFORMING UTILITY DEMOLITION.

REMOVAL OF EXISTING PAVEMENT, SIDEWALK AND MISCELLANEOUS ITEMS

Remove existing asphalt and concrete pavement, sidewalk, bollards, dumpster enclosure and other miscellaneous items at locations shown on the Plans. Sawcut full depth all edges against existing pavement and sidewalk to remain. It shall be the Contractor's responsibility to properly and legally dispose all removed material off-site. Perform all demolition and removal in accordance with Section 440 of the IDOT Standard Specifications.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

BITUMINOUS MAT PRIME COAT:	
OVER AGGREGATE SURFACE	0.25 LB/SQ FT
OVER MILLED HOT-MIX ASPHALT OR CONCRETE SURFACE	0.05 LB/SQ FT
TACK COAT: BETWEEN HOT-MIX ASPHALT LIFTS	0.025 LB/SQ FT
HOT-MIX ASPHALT LEVELING BINDER COURSE AND BASE COURSE	112 LBS/SQ YD/IN
HOT-MIX ASPHALT SURFACE COURSE	112 LBS/SQ YD/IN
AGGREGATE BASE AND SURFACE COURSE	2.05 TONS/CU YD
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE

MIXTURE USE (S)	HMA SURFACE	HMA LEVELING BINDER	TEMPORARY HMA SURFACE	HMA BASE COURSE
PG GRADE	PG64-22	PG64-22	PG64-22	PG64-22
MAX % RAP/RAS ALLOWABLE**	15%	25%	15%	25%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 9.5	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE C		MIXTURE C	
DENSITY TEST METHOD	NUCLEAR	SATISFACTION OF THE ENGINEER	NUCLEAR	SATISFACTION OF THE ENGINEER

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

APPLICABLE IDOT HIGHWAY STANDARDS

TEMPORARY EROSION CONTROL SYSTEMS	280001-07
PAVEMENT JOINTS	420001-10
PRECAST REINFORCED CONCRETE FLARED END SECTION	542301-03
INLET TYPE A	602301-04
GRATE TYPE 8	604036-03
TRAFFIC CONTROL DEVICES	701901-08
SILT FENCE PLAN	IUM-620A
SILT FENCE, SPLICING TWO FENCES	IUM-620B(W)
SILT FENCE WITH WIRE SUPPORT	IUM-620A(W)
STABILIZED CONTRUCTION ENTRANCE PLAN	IL-630
TEMPORARY CONCRETE WASHOUT	IUM-654ET

Drawing Name: R:\USERS\2\2452-00 - Grundy Co Transit New Bus Garage\CAD\SHEETS\001-NOTES.dwg Last Modified: Tuesday, April 9, 2024 11:43:22 AM Plotted On: Tuesday, April 9, 2024 11:47:06 AM by Tom Clark

DRAWN BY: TLC	REVISIONS			
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION
DATE: 04/08/2024				

Chamlin & Associates

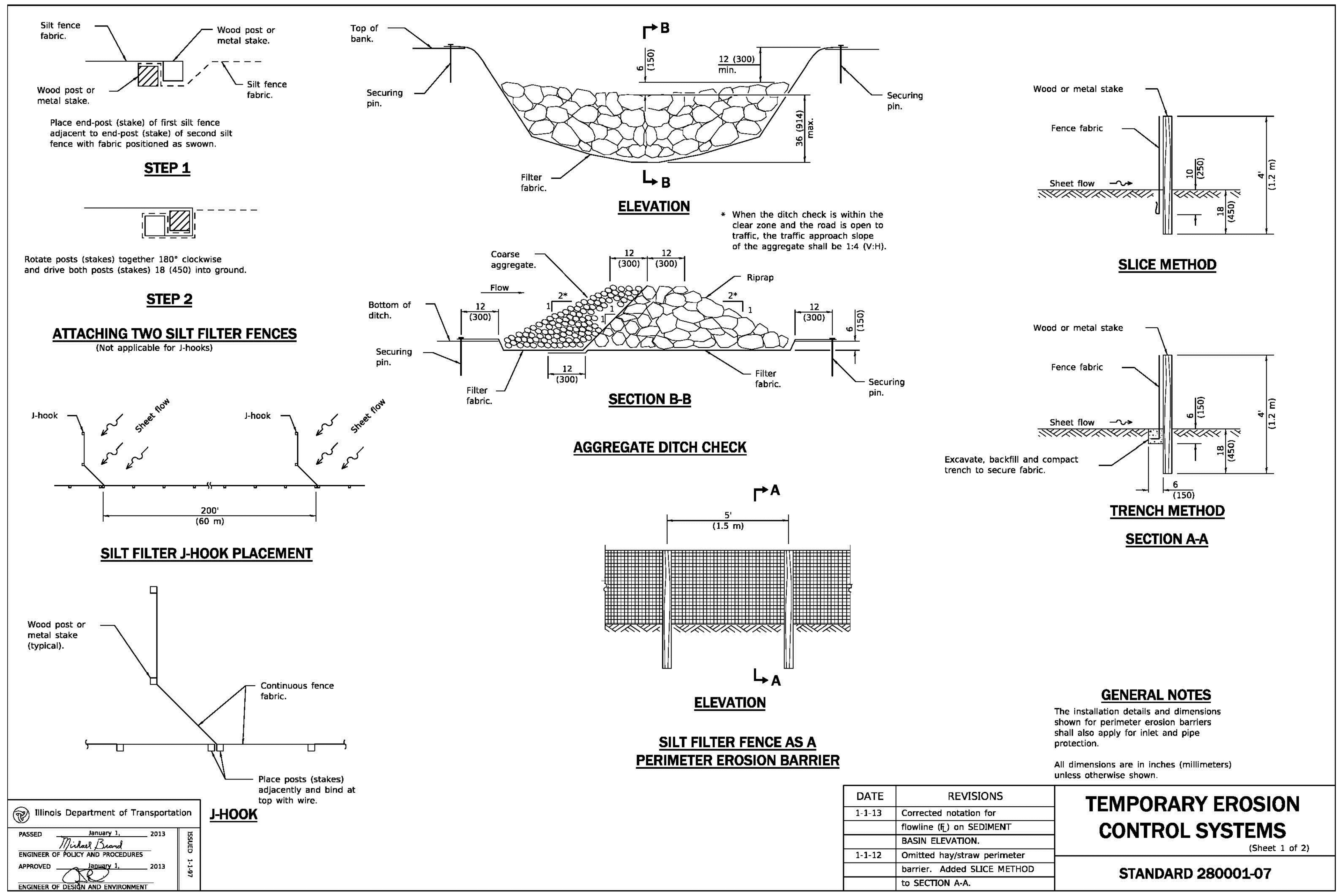
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

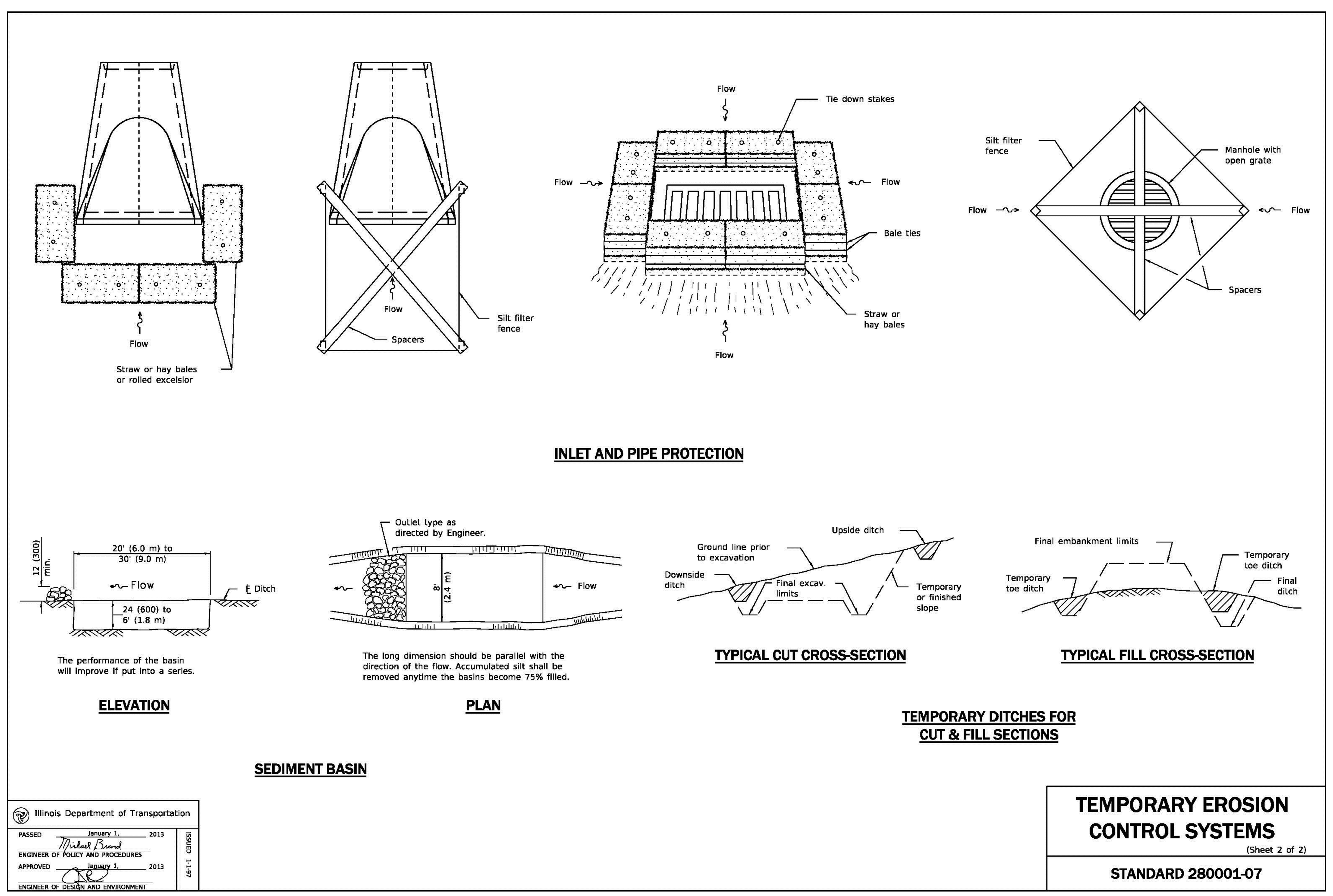
GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

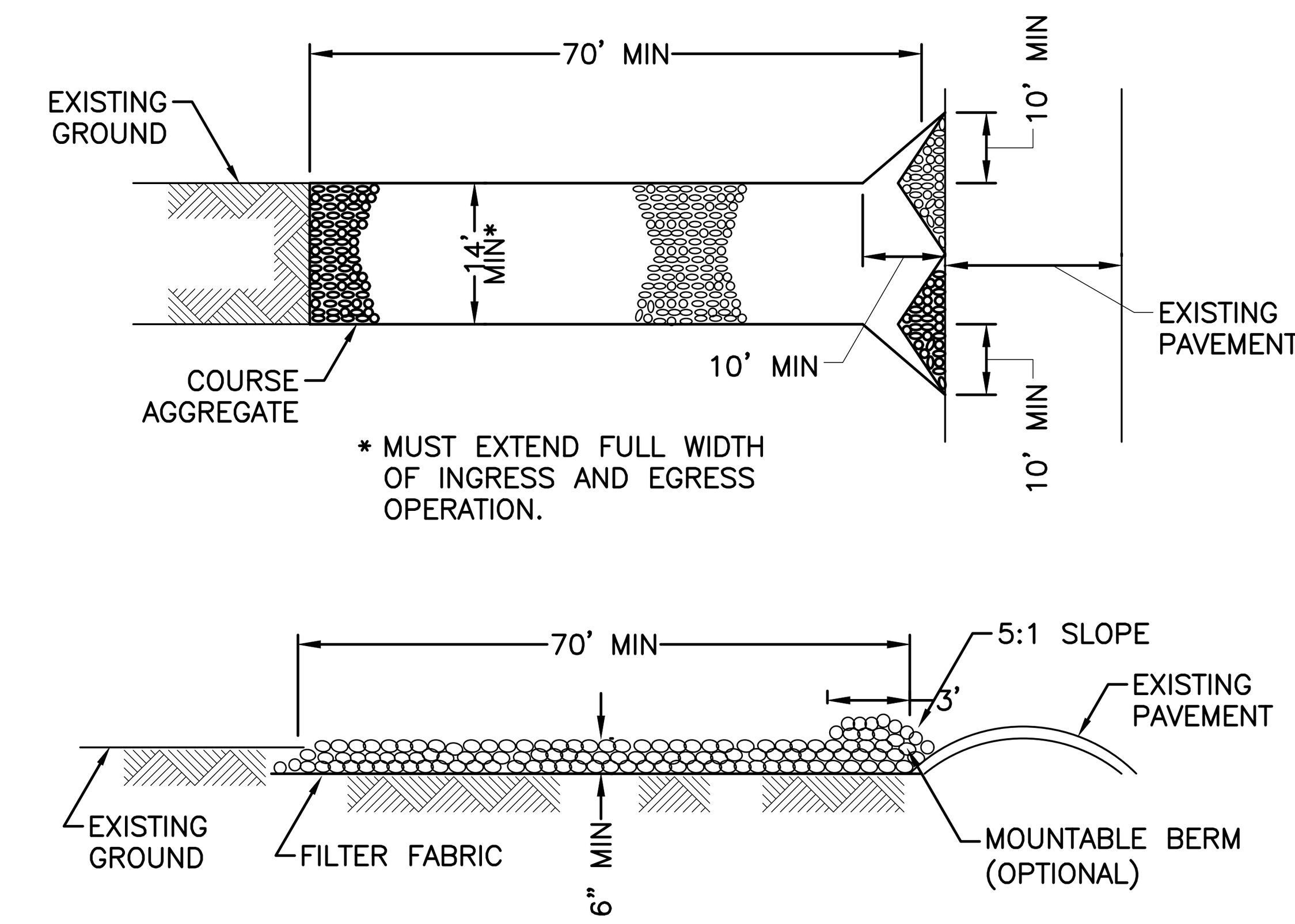
GENERAL NOTES

BID SET

CURRENT AS OF: 04/08/2024
SCALE: AS NOTED
SHEET C1.0
FILE NO.: 2452-00 Y-
OF





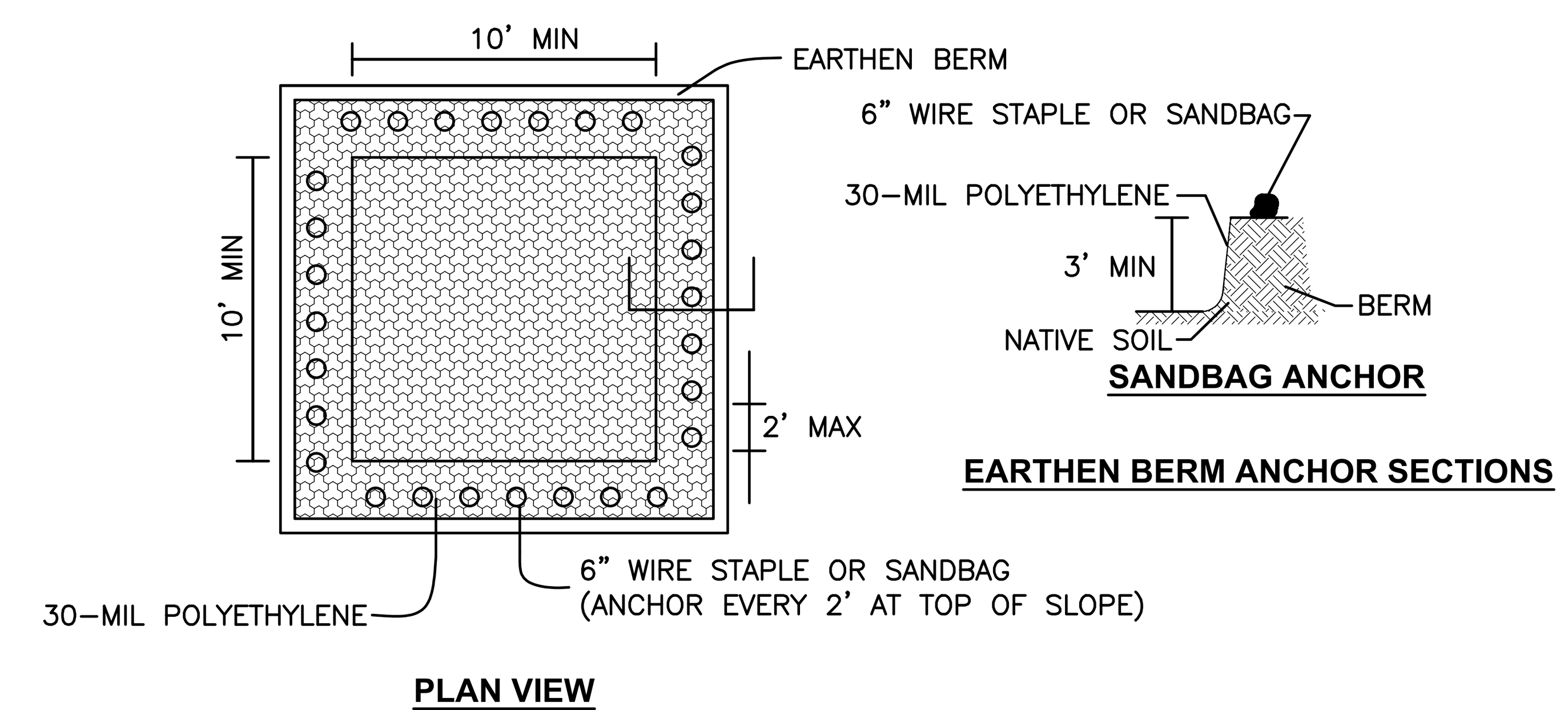


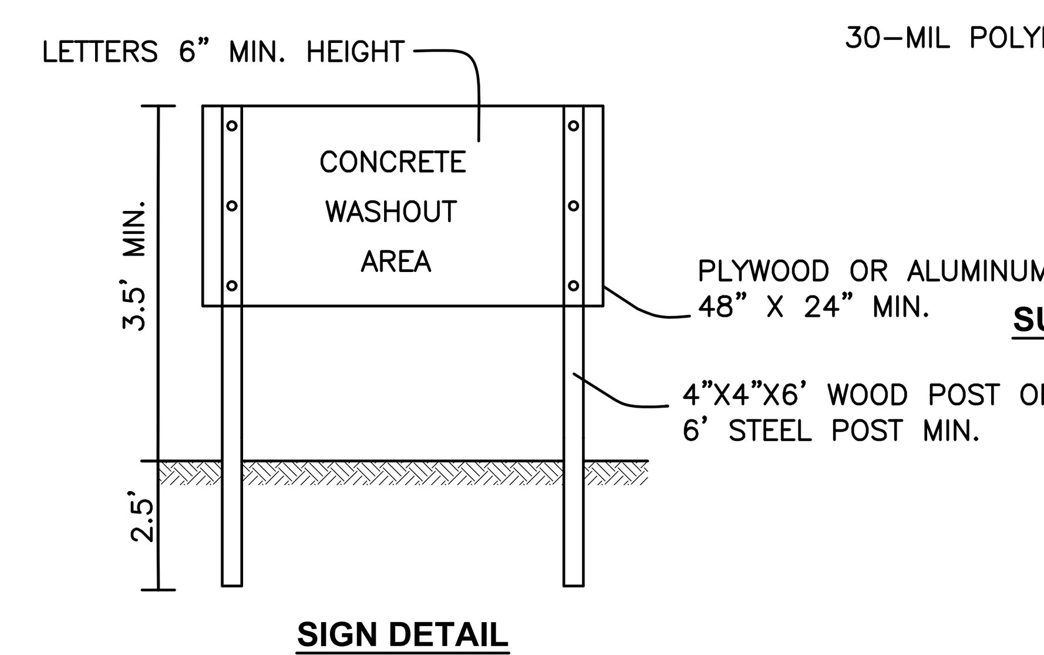
NOTES:

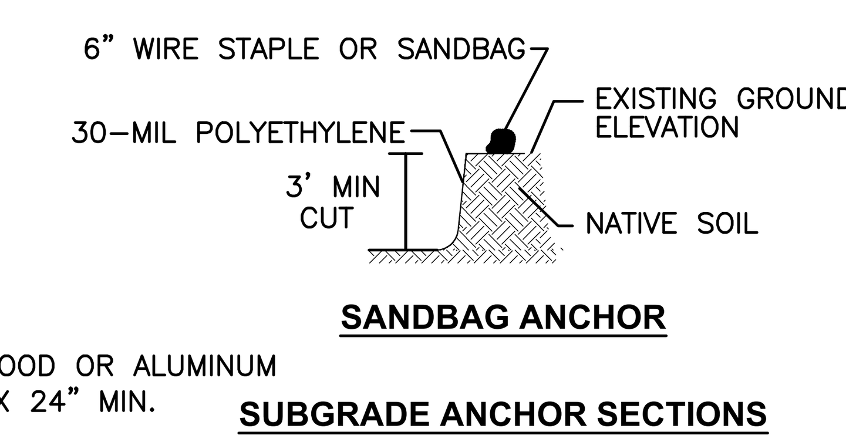
1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II, OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO PLACING OF ROCK.
2. ROCK OR RECLAIMED CONCRETE SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATION, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.

STABILIZED CONSTRUCTION ENTRANCE PLAN

N.T.S.







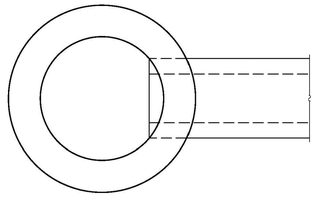
NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDEND CONCRETE AND/OR SLURRY AND RETURNING THE FACILIITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.

TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE

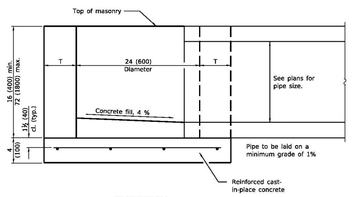
ILLINOIS URBAN MANUAL DRAWING IUM-654ET

DRAWN BY: TLC	REVISIONS				Chamlin & Associates	PERU MORRIS OTTAWA MENDOTA ILLINOIS	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS	CONSTRUCTION DETAILS	BID SET	CURRENT AS OF: 04/08/2024	
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION						SCALE: AS NOTED	SHEET C2.0
DATE: 04/08/2024										FILE NO.: 2452-00 Y-	OF

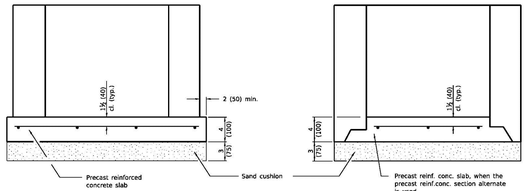


PLAN

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)



ELEVATION



ALTERNATE METHODS

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

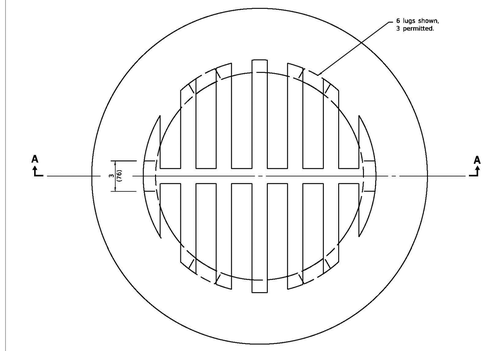
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014 — ENGINEER OF DESIGN AND ENVIRONMENT
DATE 1-1-14 — 03900

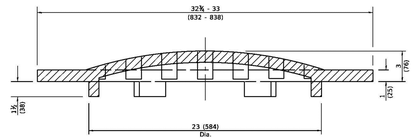
DATE	REVISIONS
1-1-14	Increased height to
	72 (1800) maximum.
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.

INLET - TYPE A

STANDARD 602301-04



CAST GRATE



SECTION A-A

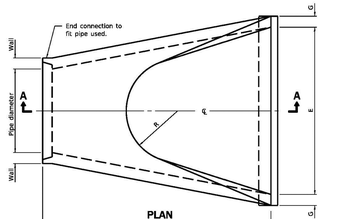
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2015 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT
DATE 1-1-15 — 03900

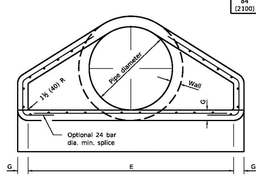
DATE	REVISIONS
1-1-15	Revised dimensions.
1-1-09	Switched units to
	English (metric).

GRATE TYPE 8

STANDARD 604036-03



SECTION A-A



END VIEW

PIPE DIA.	APPROX. QTY. lbs (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅞" (1.241 m)	6'-0⅞" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2⅛ (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2¼ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3⅛ (83)	10½ (267)	4'-0" (1.219 m)	25⅝ (648)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3⅛ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1.375 m)	19¾ (502)	6'-1⅜" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3¾ (95)	13½ (343)	4'-10½" (1.486 m)	39¼ (997)	8'-1⅜" (2.483 m)	5'-6" (1.676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34⅝ (883)	8'-1⅜" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2.299 m)	21 (533)	9'-3½" (2.832 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2011 — ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2011 — ENGINEER OF DESIGN AND ENVIRONMENT
DATE 1-1-11 — 03900

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia.
	on Section A-A. Changed
	'inner' to 'outer' cage ref.
1-1-09	Switched units to
	English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03

Drawing Name: R:\USERS\21_2452-00 - Grundy Co Transit New Bus Garage\CAD\SHEETS\002--DETAILS.dwg Last Modified: Tuesday, April 9, 2024 11:40:24 AM Plotted On: Tuesday, April 9, 2024 11:47:27 AM by Tom Clark

DRAWN BY: TLC	REVISIONS			
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION
DATE: 04/08/2024				

Chamlin & Associates

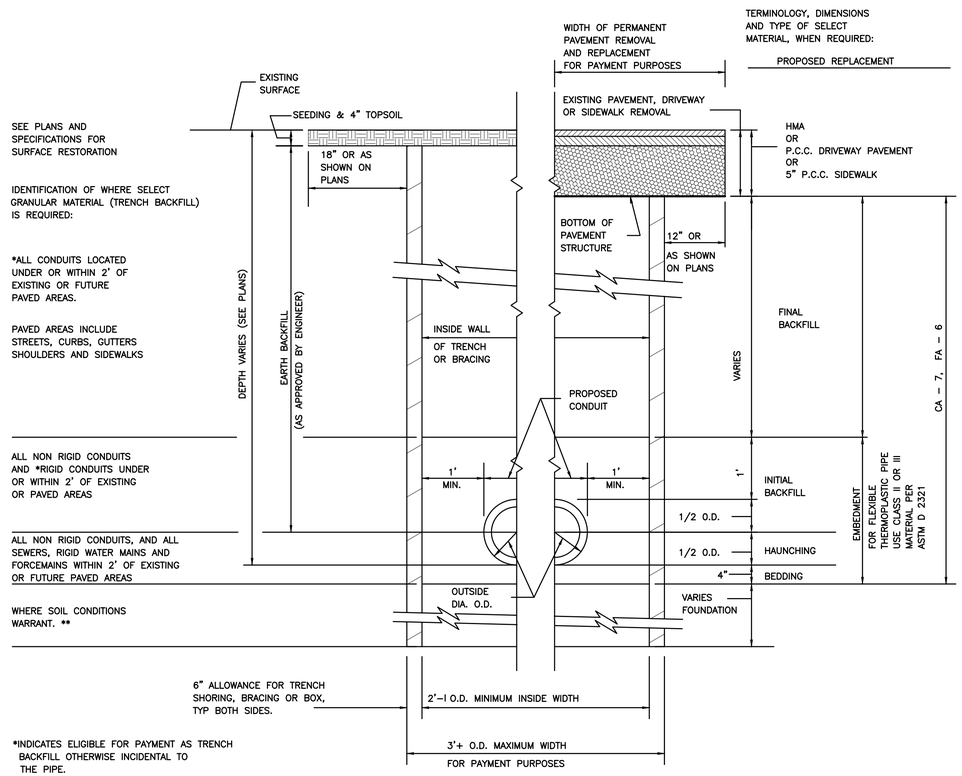
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

CONSTRUCTION DETAILS

BID SET

CURRENT AS OF: 04/08/2024
SCALE: AS NOTED — SHEET C2.1
FILE NO.: 2452-00 Y- — OF



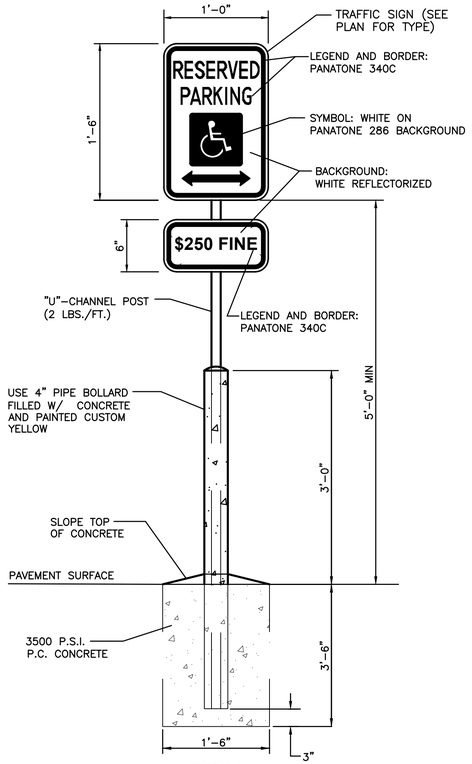
*INDICATES ELIGIBLE FOR PAYMENT AS TRENCH BACKFILL OTHERWISE INCIDENTAL TO THE PIPE.

**INDICATES ELIGIBLE FOR PAYMENT AS SELECT FOUNDATION MATERIAL

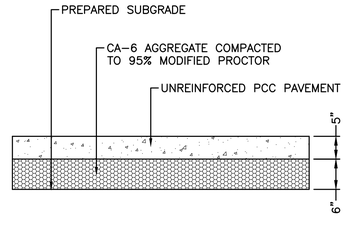
NON RIGID CONDUITS ARE DEFINED AS FLEXIBLE THERMOPLASTIC PIPE AND/OR CORRUGATED METAL PIPE.

NOTE: TRENCH BOX SHALL NOT EXTEND BELOW TOP OF PIPE, HOWEVER IT SHALL NOT EXCEED 2 FEET FROM THE BOTTOM OF THE TRENCH.

TYPICAL TRENCH DETAIL
N.T.S.

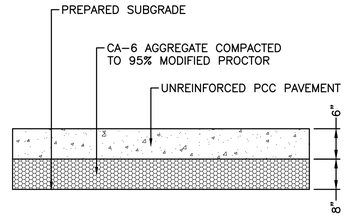


TYPE 2 (WITHIN PAVED AREAS)
N.T.S.



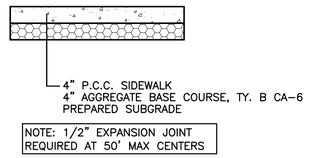
LIGHT DUTY PCC PAVEMENT
NOT TO SCALE

NOTE: INSTALL JOINTS IN ACCORDANCE WITH IDOT STANDARD DETAIL BLR 10-7.



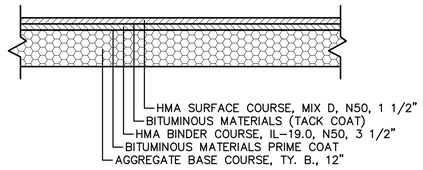
HEAVY DUTY PCC PAVEMENT
NOT TO SCALE

NOTE: INSTALL JOINTS IN ACCORDANCE WITH IDOT STANDARD DETAIL BLR 14-12.

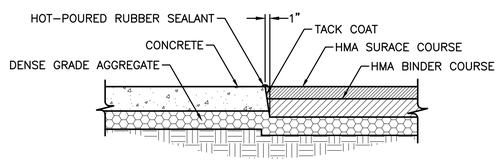


NOTE: 1/2" EXPANSION JOINT REQUIRED AT 50' MAX CENTERS

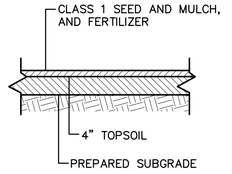
PCC SIDEWALK DETAIL
N.T.S.



HEAVY DUTY HMA PAVEMENT SECTION
N.T.S.



CONCRETE APRON / ASPHALT PAVING JOINT
N.T.S.



TURF RESTORATION DETAIL
N.T.S.

DRAWN BY: TLC	REVISIONS			
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION
DATE: 04/08/2024				

Chamlin & Associates

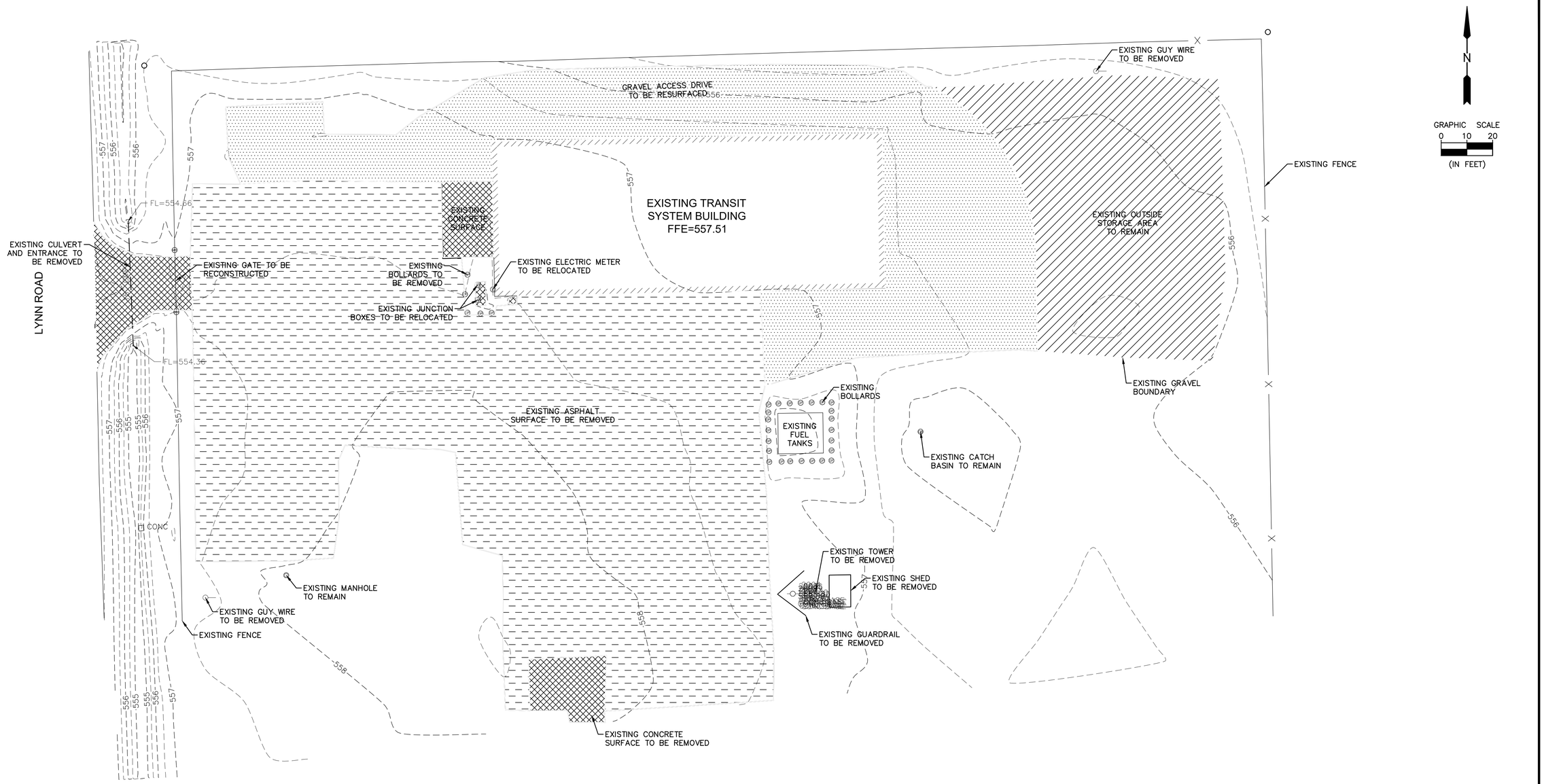
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

CONSTRUCTION DETAILS

BID SET

CURRENT AS OF: 04/08/2024
SCALE: AS NOTED
SHEET C2.2
FILE NO.: 2452-00 Y-
OF



LEGEND

- HMA PAVEMENT REMOVAL
- CONCRETE REMOVAL
- GRAVEL REMOVAL (STOCKPILED)
- GRAVEL TO REMAIN

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

Drawing Name: R:\USERS\TJ\2452-00 — Grundy Co Transit New Bus Garage\CAD\SHEETS\003-EXISTING.dwg Last Modified: Tuesday, April 9, 2024 11:39:52 AM Plotted On: Tuesday, April 9, 2024 11:47:50 AM by Tom Clark

DRAWN BY: TLC	REVISIONS			
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION
DATE: 04/08/2024				

Chamlin & Associates

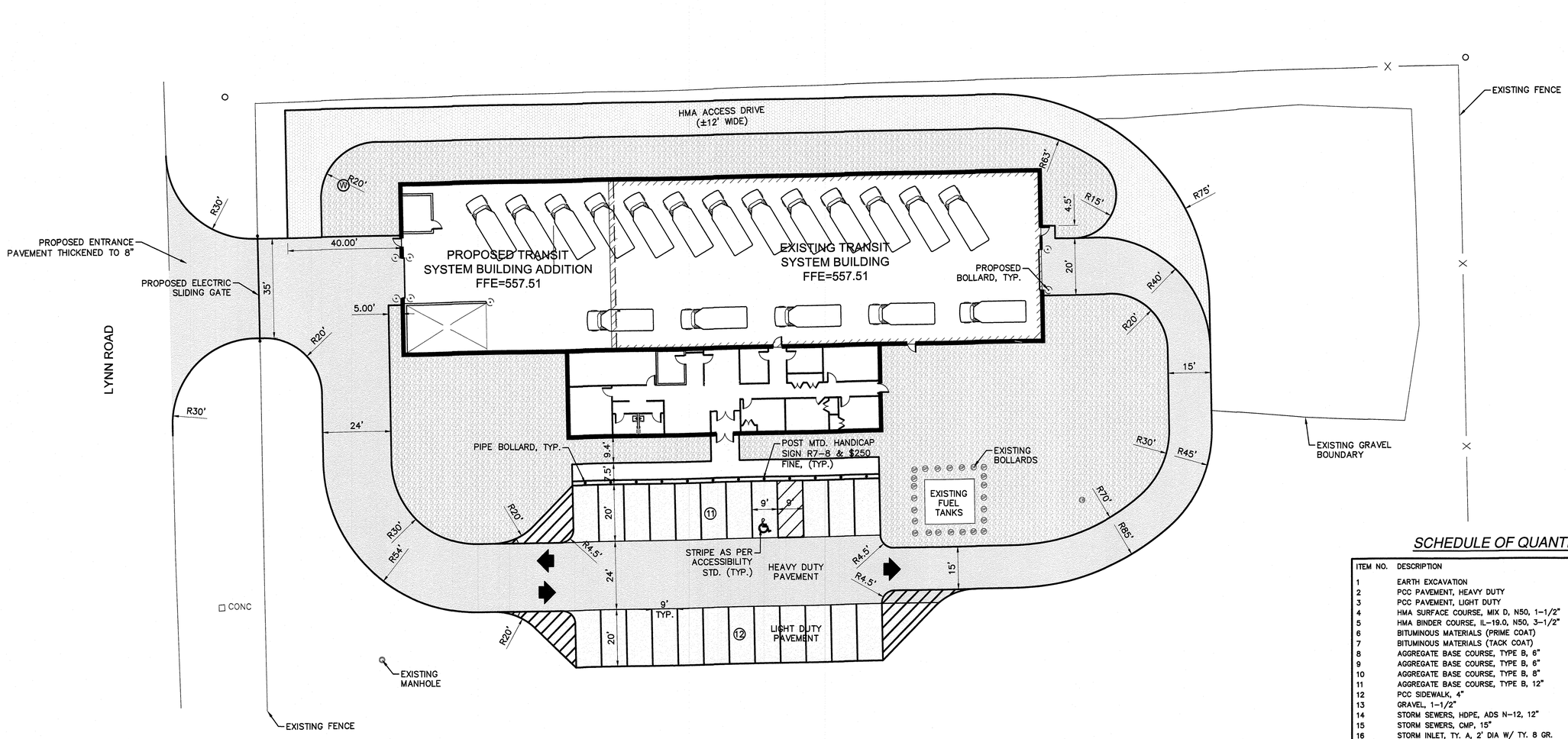
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

EXISTING CONDITIONS & DEMOLITION PLAN

BID SET

CURRENT AS OF: 04/08/2024	
SCALE: AS NOTED	SHEET C3.0
FILE NO.: 2452-00 Y-	OF



SCHEDULE OF QUANTITIES - BASE BID

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT
1	EARTH EXCAVATION	1	L SUM
2	PCC PAVEMENT, HEAVY DUTY	1,459	SQ YD
3	PCC PAVEMENT, LIGHT DUTY	548	SQ YD
4	HMA SURFACE COURSE, MIX D, N50, 1-1/2"	47	TON
5	HMA BINDER COURSE, IL-19.0, N50, 3-1/2"	110	TON
6	BITUMINOUS MATERIALS (PRIME COAT)	1,259	POUND
7	BITUMINOUS MATERIALS (TACK COAT)	126	POUND
8	AGGREGATE BASE COURSE, TYPE B, 6"	100	SQ YD
9	AGGREGATE BASE COURSE, TYPE B, 6"	548	SQ YD
10	AGGREGATE BASE COURSE, TYPE B, 8"	1,459	SQ YD
11	AGGREGATE BASE COURSE, TYPE B, 12"	560	SQ YD
12	PCC SIDEWALK, 4"	904	SQ FT
13	GRAVEL, 1-1/2"	1,882	SQ YD
14	STORM SEWERS, HDPE, ADS N-12, 12"	93	FOOT
15	STORM SEWERS, CMP, 15"	95	FOOT
16	STORM INLET, TY. A, 2' DIA W/ TY. 8 GR.	1	EACH
17	PRECAST REINF. CONC. FLARED END SECTION, 12"	1	EACH
18	CMP FLARED END SECTION, 15"	2	EACH
19	TRENCH BACKFILL (STORM SEWER), INCL. TESTING	30	FOOT
20	CLASS 1 SEED, MULCH, AND FERTILIZER	1	L SUM
21	TEMPORARY SEEDING (ESTIMATED)	50	POUND
22	INLET PROTECTION	1	EACH
23	OUTLET PROTECTION	1	EACH
24	CONSTRUCTION ENTRANCE	1	EACH
25	PAINT STRIPING, 4" YELLOW (2 COATS)	1	L SUM
26	PAINT STRIPING, ACCESSIBLE SYMBOLS, (2 COATS)	1	L SUM
27	PAINT STRIPING, TRAFFIC SYMBOLS, (2 COATS)	1	L SUM
28	POST MOUNTED HANDICAP SIGN R7-8 & $250 FINE SIGN	1	EACH
29	PIPE BOLLARDS	12	EACH
30	ELECTRIC SLIDING GATE	40	FOOT
31	EXISTING HMA PAVEMENT REMOVAL	4,044	SQ YD
32	EXISTING CONCRETE PAVEMENT REMOVAL	263	SQ YD
33	EXISTING CULVERT REMOVAL	48	FOOT
34	EXISTING GATE REMOVAL	1	L SUM
35	EXISTING BOLLARD REMOVAL	1	L SUM
36	EXISTING ELECTRIC METER TO BE RELOCATED	1	L SUM
37	EXISTING JUNCTION BOXES TO BE RELOCATED	1	L SUM

LEGEND - (BASE BID)

- HEAVY DUTY HMA SURFACE
- HEAVY DUTY CONCRETE
- LIGHT DUTY CONCRETE
- 1-1/2" GRAVEL
- PCC SIDEWALK

*** LEGEND - (ALTERNATES 4 & 5) ***

- ACCESS DRIVE TO BE DEDUCTED FROM BID
- HEAVY DUTY HMA SURFACE
- HEAVY DUTY HMA SURFACE
- 1-1/2" GRAVEL
- PCC SIDEWALK

SCHEDULE OF QUANTITIES - ALTERNATE No. 4 & 5

ITEM NO.	DESCRIPTION	EST. QTY.	UNIT
1	HMA SURFACE COURSE, MIX D, N50, 1-1/2"	216	TON
2	HMA BINDER COURSE, IL-19.0, N50, 3-1/2"	503	TON
3	BITUMINOUS MATERIALS (PRIME COAT)	5,774	POUND
4	BITUMINOUS MATERIALS (TACK COAT)	577	POUND
5	AGGREGATE BASE COURSE, TYPE B, 12"	2,556	SQ YD

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

Drawing Name: R:\USERS\CA\2452-00 - Grundy Co Transit New Bus Garage\CAD\SHEETS\004-SITE PLAN.dwg Last Modified: Tuesday, April 9, 2024 11:39:38 AM Plotted On: Tuesday, April 9, 2024 11:48:31 AM by Tom Clark

DRAWN BY: TLC	REVISIONS			
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION
DATE: 04/08/2024				

Chamlin & Associates

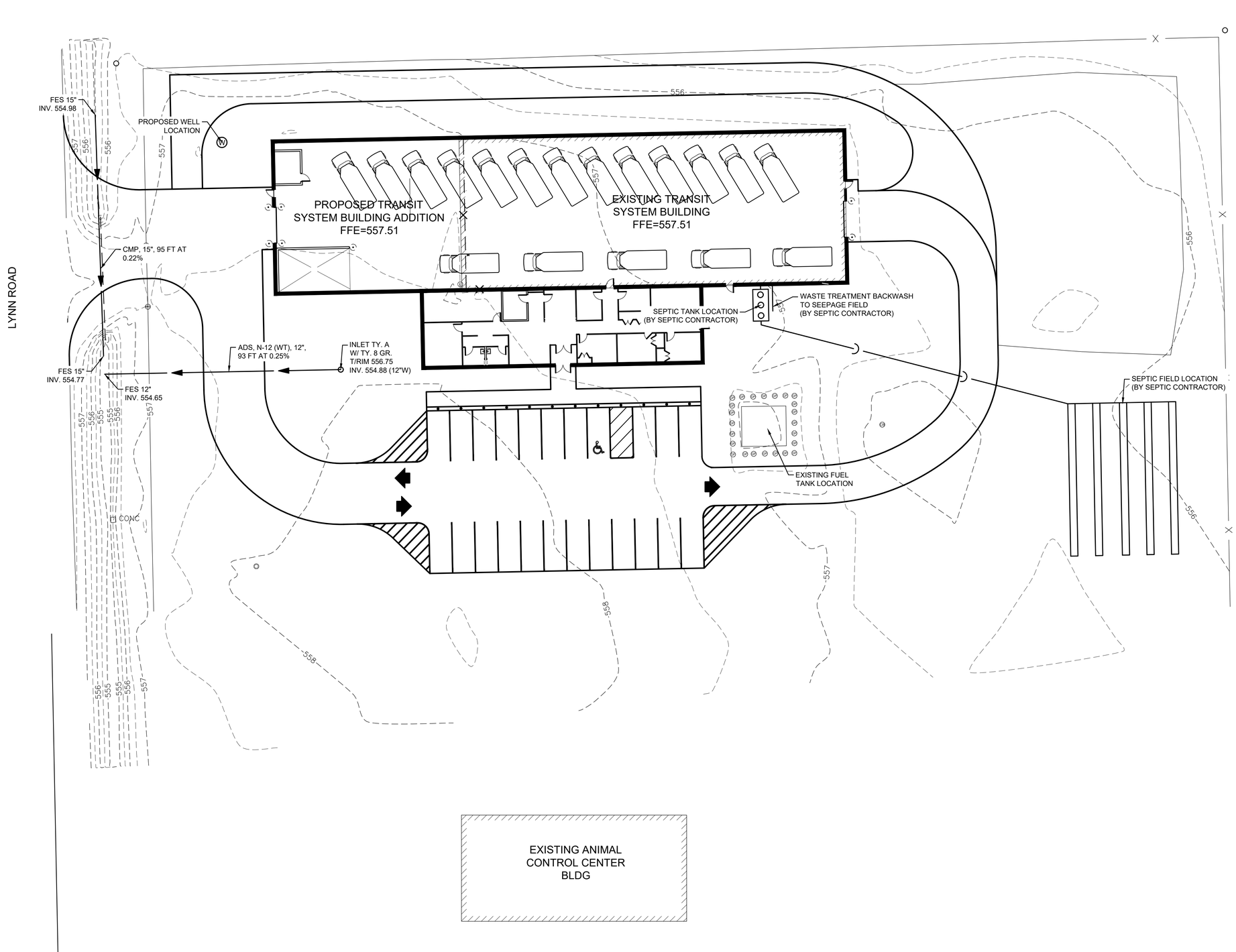
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

SITE & DIMENSIONAL LAYOUT PLAN

BID SET

CURRENT AS OF: 04/08/2024
SCALE: AS NOTED
SHEET C4.0
FILE NO.: 2452-00 Y-
OF



Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

DRAWN BY: KED	REVISIONS			
CHECKED BY: DAH	LEVEL	BY	DATE	DESCRIPTION
DATE: 04/08/2024				

Chamlin & Associates

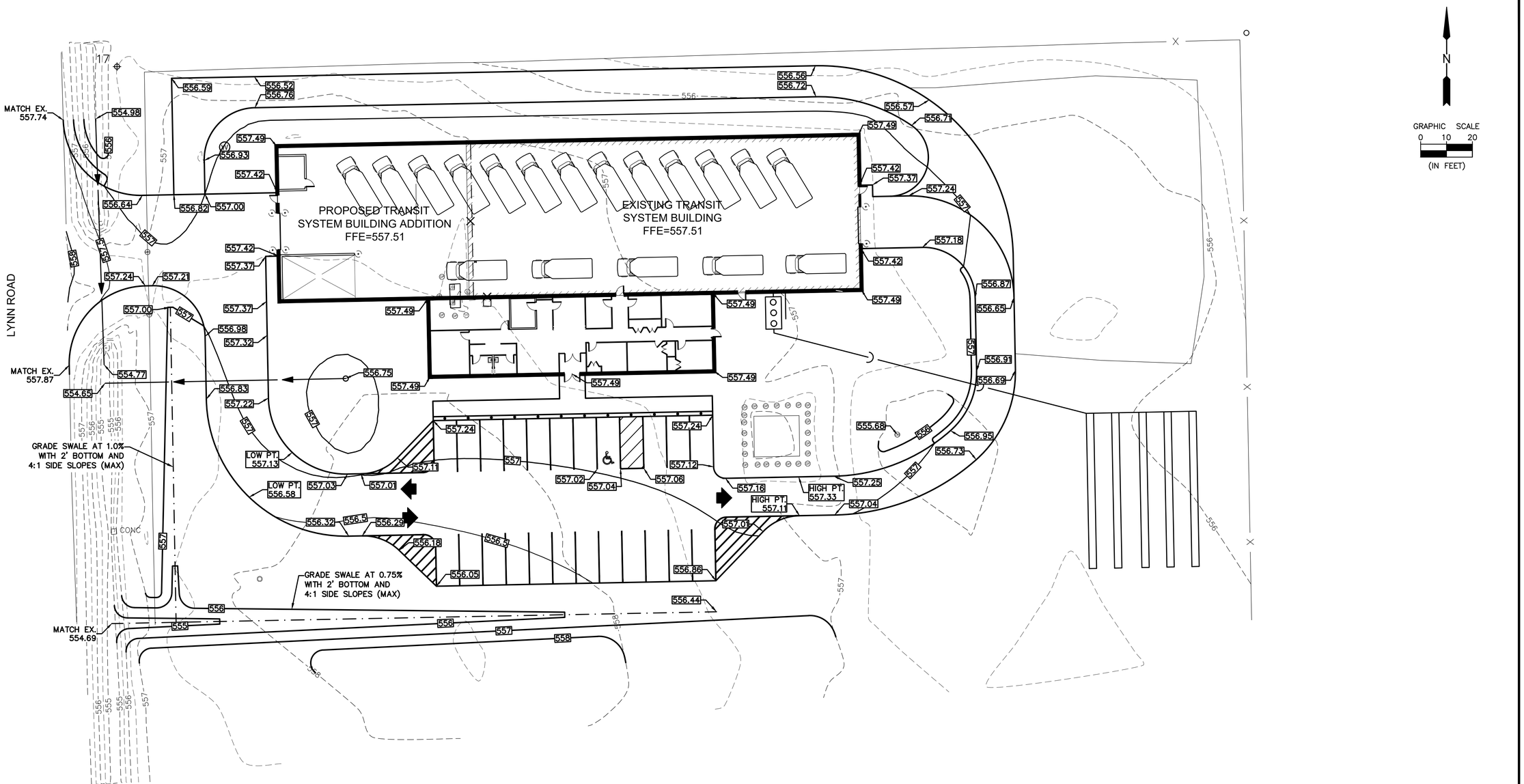
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

UTILITY PLAN

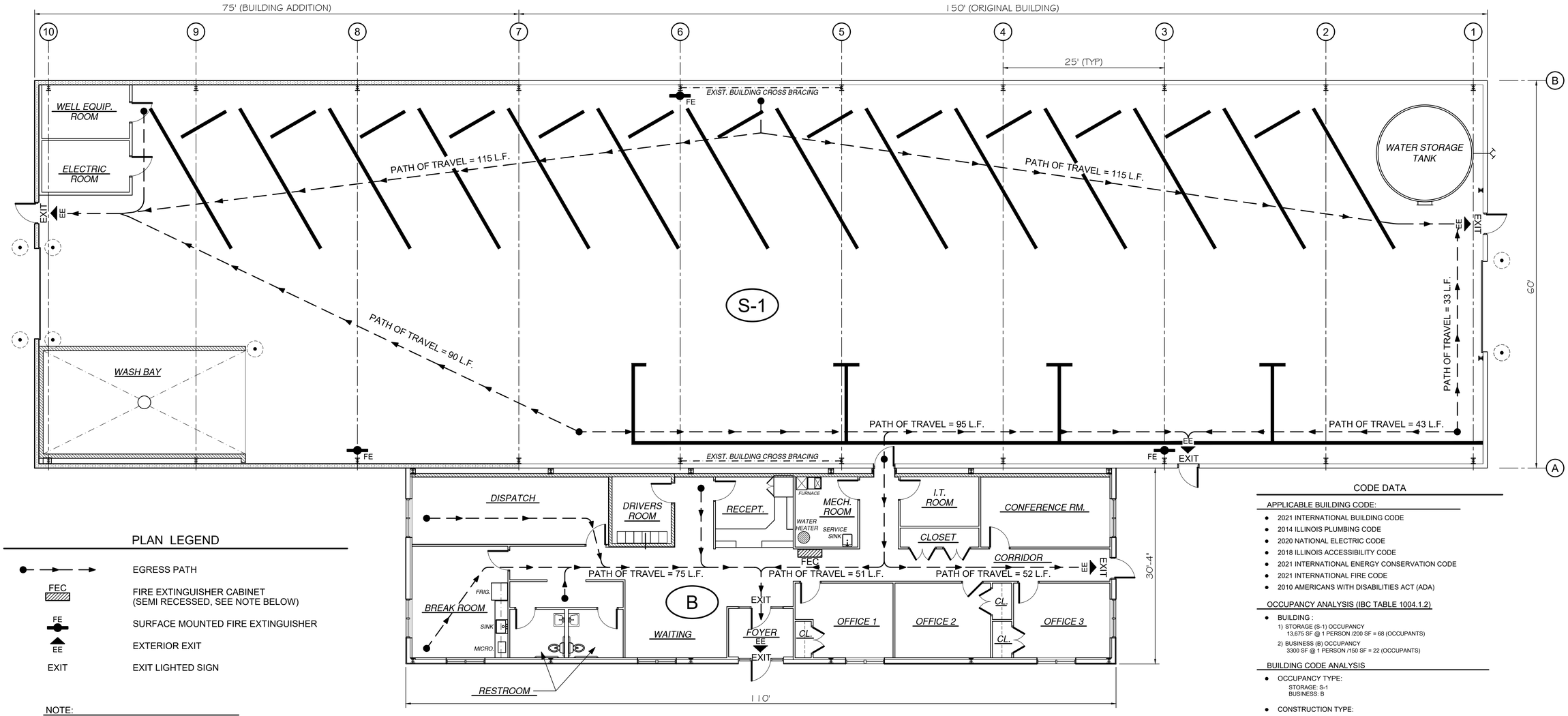
BID SET

CURRENT AS OF: 04/08/2024
SCALE: AS NOTED
SHEET C5.0
FILE NO.: 2452-00 Y-
OF



Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM
Simply Call 811

DRAWN BY: TLC	REVISIONS				PERU MORRIS OTTAWA MENDOTA ILLINOIS	GRUNDY COUNTY **PROPOSED TRANSIT SYSTEM BUILDING** MORRIS, ILLINOIS	GRADING PLAN	BID SET	CURRENT AS OF: 04/08/2024	
CHECKED BY: RH	LEVEL	BY	DATE	DESCRIPTION					SCALE: AS NOTED	SHEET C6.0
DATE: 04/08/2024					Chamlin & Associates				FILE NO.:2452-00 Y-	OF



PLAN LEGEND

●—→—→	EGRESS PATH
FEC	FIRE EXTINGUISHER CABINET (SEMI RECESSED, SEE NOTE BELOW)
FE	SURFACE MOUNTED FIRE EXTINGUISHER
EE	EXTERIOR EXIT
EXIT	EXIT LIGHTED SIGN

NOTE:
FIRE EXTINGUISHER CABINET (FEC) TO BE SEMI-RECESSED, CLASS A, 2-A RATING

CODE COMPLIANCE PLAN

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

NORTH

CODE DATA

APPLICABLE BUILDING CODE:

- 2021 INTERNATIONAL BUILDING CODE
- 2014 ILLINOIS PLUMBING CODE
- 2020 NATIONAL ELECTRIC CODE
- 2018 ILLINOIS ACCESSIBILITY CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL FIRE CODE
- 2010 AMERICANS WITH DISABILITIES ACT (ADA)

OCCUPANCY ANALYSIS (IBC TABLE 1004.1.2)

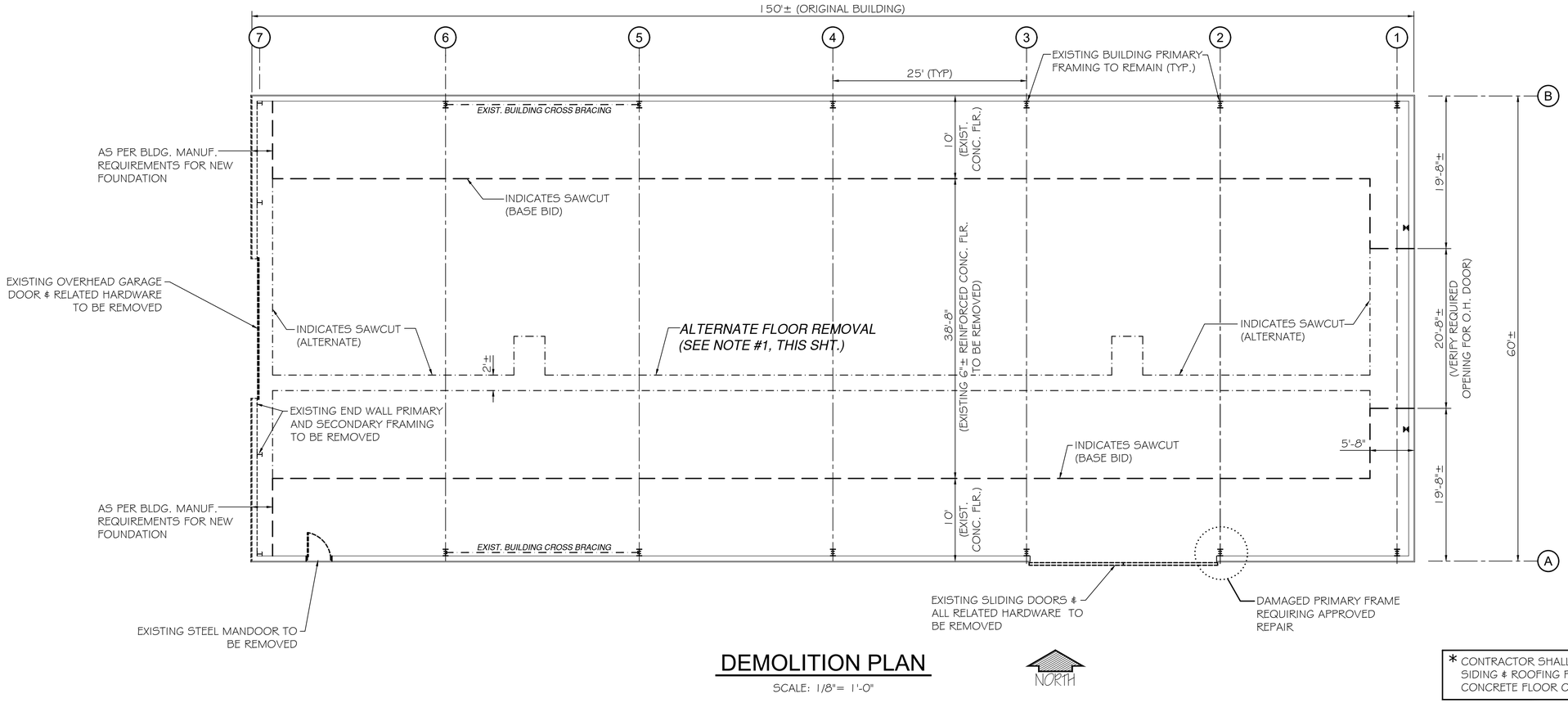
- BUILDING :
  1) STORAGE (S-1) OCCUPANCY
     13,675 SF @ 1 PERSON /200 SF = 68 (OCCUPANTS)
  2) BUSINESS (B) OCCUPANCY
     3300 SF @ 1 PERSON /150 SF = 22 (OCCUPANTS)

BUILDING CODE ANALYSIS

- OCCUPANCY TYPE:
  STORAGE: S-1
  BUSINESS: B
- CONSTRUCTION TYPE:
  NEW CONSTRUCTION
  TYPE-II-B (IBC), TYPE II 222 (NFPA)
  SPRINKLED
- HEIGHT AND AREA CALCULATIONS:
  ALLOWABLE BUILDING HEIGHT: 75 FEET (STORAGE & BUSINESS)
  NEW BUILDING HEIGHT: 18 FEET (STORAGE) 12 FEET (BUSINESS)
- BUILDING AREA:
  ALLOWABLE BUILDING STORIES: 4
  NEW BUILDING STORIES: 1

  ALLOWABLE (S-1) FACTORY BUILDING AREA ONE STORY: 70,000 SF
  ALLOWABLE (B) BUSINESS AREA ONE STORY: 92,000 SF
- EGRESS TRAVEL DISTANCE LIMITATIONS (IBC CHAPTER 10):
  GROUP (S-1) : 250 FEET, GROUP (B) : 300 FEET
  COMMON PATH OF TRAVEL: 100 FEET (1013.3 EXCEPTION 1)
  2 EXITS REQUIRED PER 1014.1
- RATED CONSTRUCTION: NOT REQUIRED

DRAWN BY: Tim H	REVISIONS			Chamlin & Associates	PERU MORRIS OTTAWA MENDOTA ILLINOIS
CHECKED BY: R.H.	LEVEL / BY / DATE / DESCRIPTION			GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS	CODE COMPLIANCE PLAN
DATE: 4–2024				BID SET	CURRENT AS OF: 4-8-2024
					SCALE: AS NOTED / SHEET G-1
					FILE NO.:2452.00 Y– / OF



DEMOLITION PLAN

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

NORTH

* CONTRACTOR SHALL REMOVE ALL EXISTING BUILDING SIDING & ROOFING PANELS BEFORE REMOVAL OF THE CONCRETE FLOOR CAN BE EXECUTED (BASE BID ONLY).

ALTERNATES (DEDUCTIONS TO THE BID) :

1. CONTRACTOR SHALL SAWCUT AND REMOVE THE EXISTING CONCRETE FLOOR AS INDICATED ABOVE TO INSTALL A NEW SANITARY SEWER PIPE AND CATCH BASINS (SEE PLUMBING PLAN). REMOVE ONLY THE AMOUNT OF FLOOR REQUIRED TO INSTALL THE SEWER SYSTEM AND AS NEEDED TO RESHAPE FLOOR AT NEW OVERHEAD DOOR AND WEST END WALL REMOVAL.
2. THE PROPOSED WASH BAY SHOWN ON THESE PLANS SHALL BE ELIMINATED. THIS WORK WILL INCLUDE REMOVAL OF THE PERIMETER 8" CMU WALLS AND ALL WASHING EQUIPMENT INCLUDING (PRESSURE WASHER & HOSE). THE PROPOSED CATCH BASIN, SLOPED FLOOR, & SUPPLY PIPING SHALL BE COMPLETED AS SHOWN. THE CONTRACTOR SHALL INSTALL A HOSE BIB ON THE SUPPLY LINE 48" A.F.F.
3. THIS ALTERNATE SHALL CONSIST OF NOT REMOVING THE EXISTING METAL BUILDING SIDING, UNLESS AS REQUIRED FOR INSTALLATION OF PROPOSED DOORS OR EQUIPMENT. THE CONTRACTOR SHALL PROVIDE NEW SIDING (TO MATCH THE EXISTING) WHERE DOOR & EQUIPMENT REMOVAL OPENINGS REMAIN. ALL EXISTING SIDING PANELS SHALL RECEIVE 2-COATS FINISH PAINT TO MATCH PROPOSED SIDING ON THE BUILDING ADDITION.
   PLEASE NOTE THAT ALL OF THE EXISTING METAL ROOFING PANELS WILL REQUIRE REMOVAL AND REPLACEMENT AS INDICATED IN THE SPECIFICATIONS. THE NEW FACILITY (ADDITION & EXISTING) SHALL HAVE ONE NEW CONTINUOUS METAL ROOF SYSTEM.
4. ELIMINATE THE USE OF THE PROPOSED EXTERIOR WALL & ROOF BATT INSULATION INCLUDING THE VINYL BACKING. THE CONTRACTOR SHALL INSTEAD, FIGURE INTO THIS ALTERNATE THE INSTALLATION OF SPRAY ON, POLYURETHANE FOAM INSULATION THROUGHOUT (ROOF & WALLS) MATCHING THE "R" VALUE SPECIFIED FOR THE BASE BID BATT INSULATION. THICKNESS & INSTALLATION PROCESS TO BE DETERMINED BY INSTALLER AND APPROVED BY ENGINEER.

DEMOLITION NOTES:

1. THE EXISTING CONCRETE FLOOR CONSISTS OF 6"± THICK WITH WIRE MESH REINFORCEMENT. THE PERIMETER EDGE IS THICKENED TO 24"± AND RESTS ON A CONCRETE FOUNDATION WALL WHICH EXTENDS BELOW FROST LINE (48"±) BENEATH FINISH FLOOR.
2. ALL DIMENSIONS ARE NOMINAL TAKEN FROM OUTER EDGES OF CONCRETE FLOOR.
3. ALL EXTERIOR WALL & ROOF PANELS SHALL BE REMOVED AND DISPOSED OF PROPERLY. EXISTING PRIMARY & SECONDARY FRAMING OF THE BUILDING SHALL REMAIN. REPAIR OR REPLACE DAMAGED OR DETERIORATED FRAMING MATERIALS AS REQUIRED. THERE IS ONE KNOWN PRIMARY FRAME THAT SHALL REQUIRED REPAIR (SEE ABOVE PLAN). THE CONTRACTOR SHALL COLLABORATE WITH THE BUILDING MANUFACTURER TO PROVIDE A DETAILED PLAN OF REPAIR THAT SHALL REQUIRE APPROVAL BY A STRUCTURAL ENGINEER.
4. ALL PRIMARY & SECONDARY BUILDING FRAMING SHALL BE PROPERLY PREPARED FOR PROPOSED PAINT. PAINT SHALL BE APPROVED PRIMER (COLOR RED) SUITABLE FOR METAL BUILDING FRAMING. THE CONTRACTOR SHALL WORK WITH THE BUILDING SUPPLIER TO VERIFY ACCEPTABLE PRIMER PAINT.

DRAWN BY: Tim H	REVISIONS			
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION
DATE: 4–2024				

Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

BUILDING DEMOLITION PLAN

BID SET

CURRENT AS OF: 4-8-2024	
SCALE: AS NOTED	SHEET A0.1
FILE NO.:2452.00 Y–	OF

℄ = BUILDING STEEL LINE

75' (BUILDING ADDITION) | 150' (ORIGINAL BUILDING) | STEEL LINE (SL)

6' LG. x 4" h. x 6" w. RUBBER PARKING STOP WITH REFLECTIVE STRIPES (TYP)

EXIST. BUILDING CROSS BRACING

WELL EQUIP. ROOM

ELECTRIC ROOM

WATER STORAGE TANK

GUARD POST

FLOOR DRAIN

4" WIDE PAVEMENT LINE (YELLOW) TYP.

BUS GARAGE

WASH BAY

RETURN BLOCK END AS REQUIRED

CONT. 2-HOUR CMU FIRE SEPERATION

DISPATCH

DRIVERS ROOM

RECEPT.

MECH. ROOM

I.T. ROOM

CONFERENCE RM.

CORRIDOR-2

CORRIDOR-1

CLOSET-1

BREAK ROOM

CORR.-3

WAITING

FOYER

OFFICE 1

OFFICE 2

OFFICE 3

R.R.-1

R.R.-2

CANOPY

46'-3"

110' (OUT TO OUT OF STEEL LINE)

57'-6"

30'-4" (VERIFY WITH BLDG. MANUF.)

COLUMN SPACING PER BUILDING MANUF. BASED ON DESIGN REQUIREMENTS.

6" DIA. CONC. FILLED STEEL PIPE GUARD POST (PAINT) OR PROVIDE POLYETHYLENE POST COVER (YELLOW)

SLOPE CONC. AWAY FROM POST

PAVEMENT

EXPANSION MAT. (ZIP STRIP), BACKER ROD & APPROVED SEALANT (ALL AROUND)

CONCRETE BASE

TYPICAL GUARD POST DETAIL

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

LAYOUT PLAN

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

NORTH

CHAMLIN & ASSOCIATES, INC. © 2021
Drawing Name: G:\Users\AIA-MORRIS\2452-00-GRUNDY-BUS-BARN\CAD\Building Plans\Bid Plans\A1.0 Layout Plan.dwg Last Modified: Tuesday, April 9, 2024 1:52:24 PM Plotted On: Friday, April 19, 2024 9:47:12 AM by Tim Harris

DRAWN BY: Tim H	
CHECKED BY: R.H.	
DATE: 4-2024	

REVISIONS			
LEVEL	BY	DATE	DESCRIPTION

Chamlin & Associates

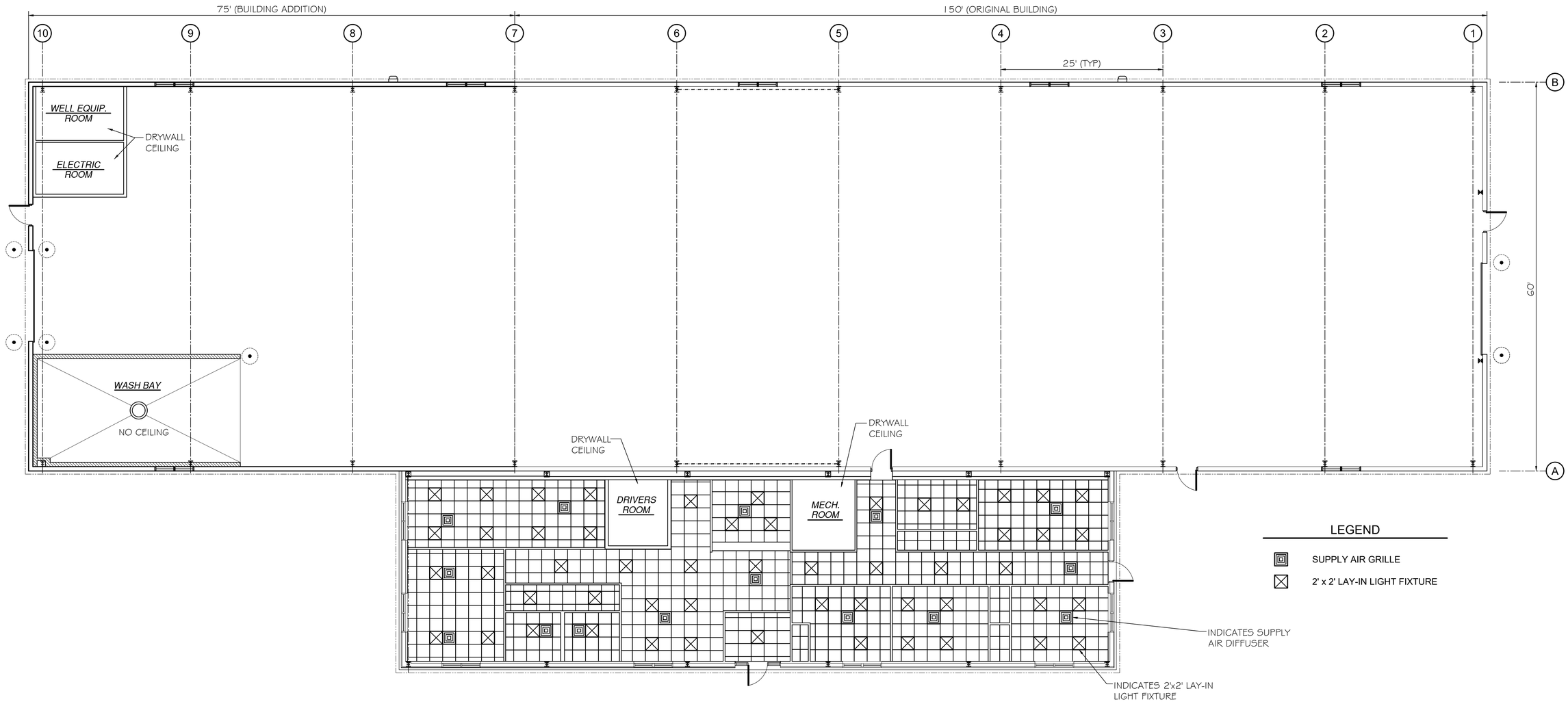
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

LAYOUT PLAN

BID SET

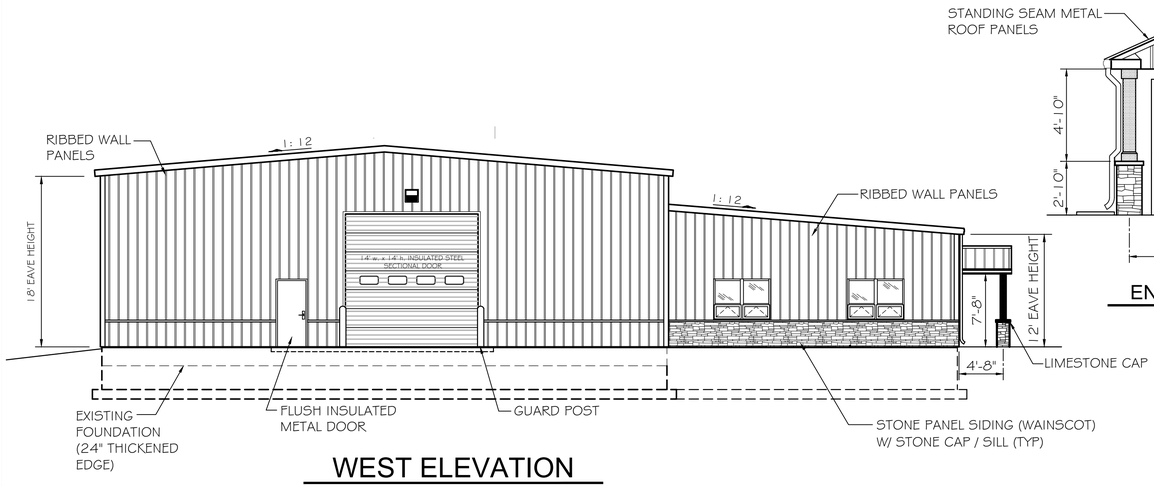
CURRENT AS OF: 4-8-2024	
SCALE: AS NOTED	SHEET A1.0
FILE NO.:2452.00 Y-	OF



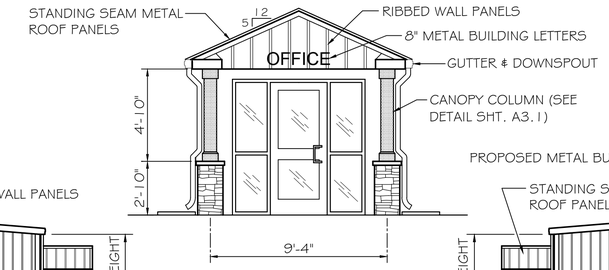
REFLECTED CEILING PLAN

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

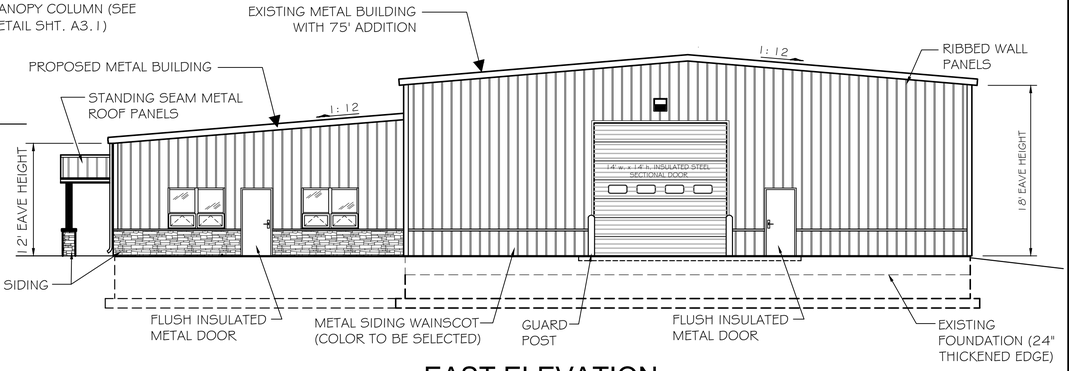
DRAWN BY: Tim H	REVISIONS			Chamlin & Associates	PERU MORRIS OTTAWA MENDOTA ILLINOIS	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS	REFLECTED CEILING PLAN	BID SET	CURRENT AS OF: 4-8-2024	
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION					SCALE: AS NOTED	SHEET A1.1
DATE: 4-2024									FILE NO.:2452.00 Y-	OF



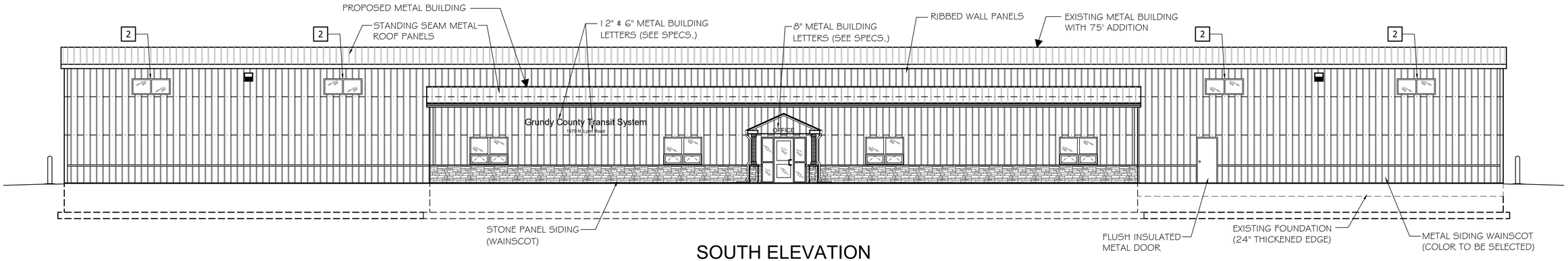
WEST ELEVATION



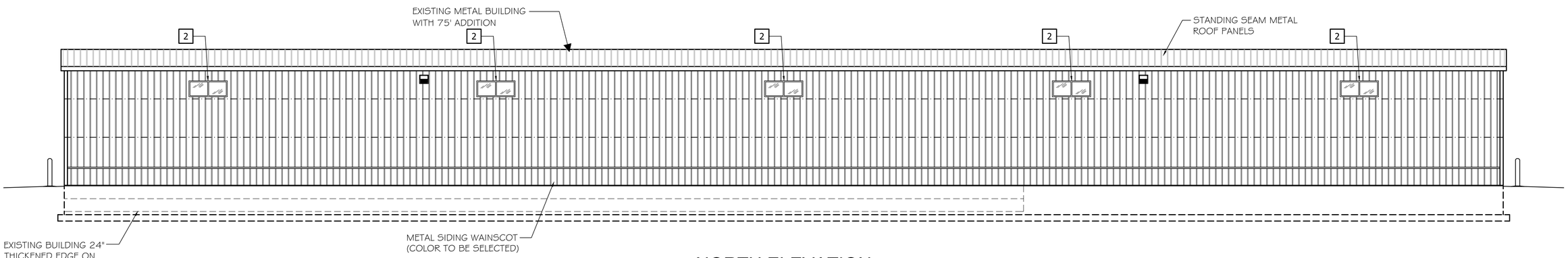
ENTRANCE VIEW



EAST ELEVATION



SOUTH ELEVATION



NORTH ELEVATION

DRAWN BY: Tim H	REVISIONS			PERU MORRIS OTTAWA MENDOTA ILLINOIS	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS	EXTERIOR ELEVATION PLANS	BID SET	CURRENT AS OF: 4-8-2024	
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION				SCALE: AS NOTED	SHEET A2.0
DATE: 4–2024								FILE NO.:2452.00 Y–	OF

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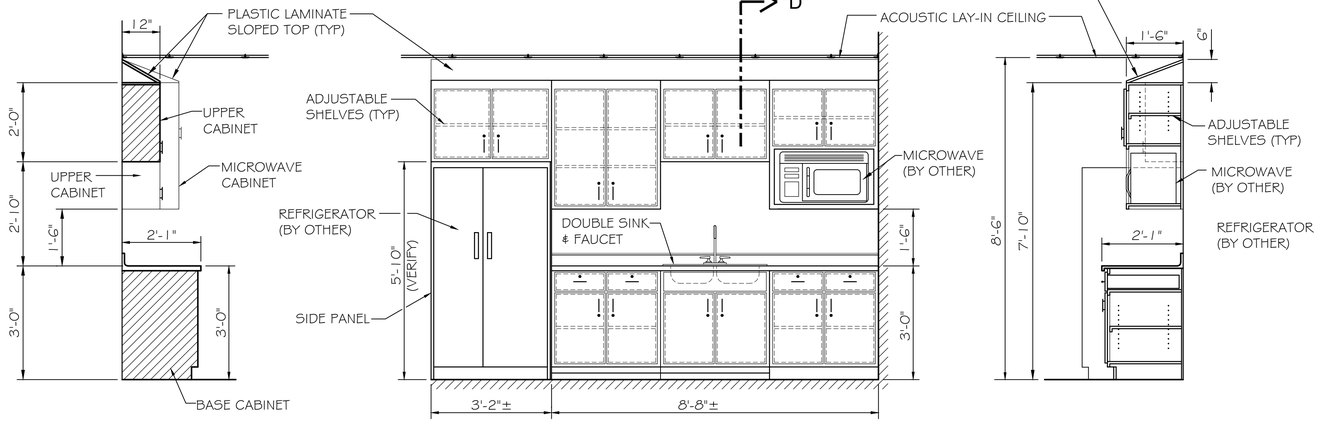


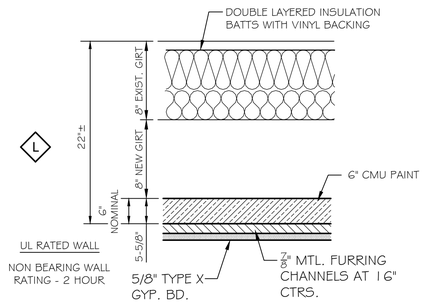
SECTION D

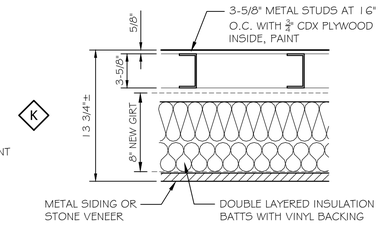
BREAK ROOM CABINETRY - LOOKING EAST

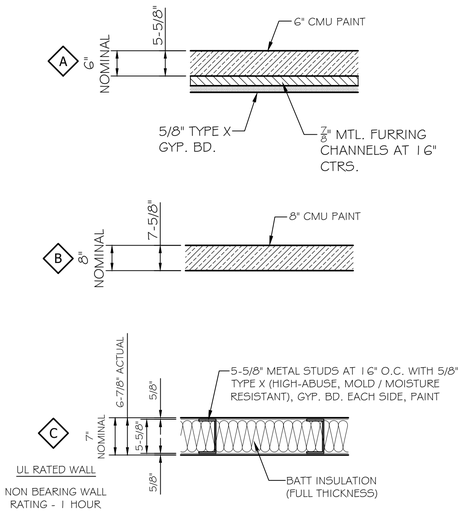
LOOKING NORTH

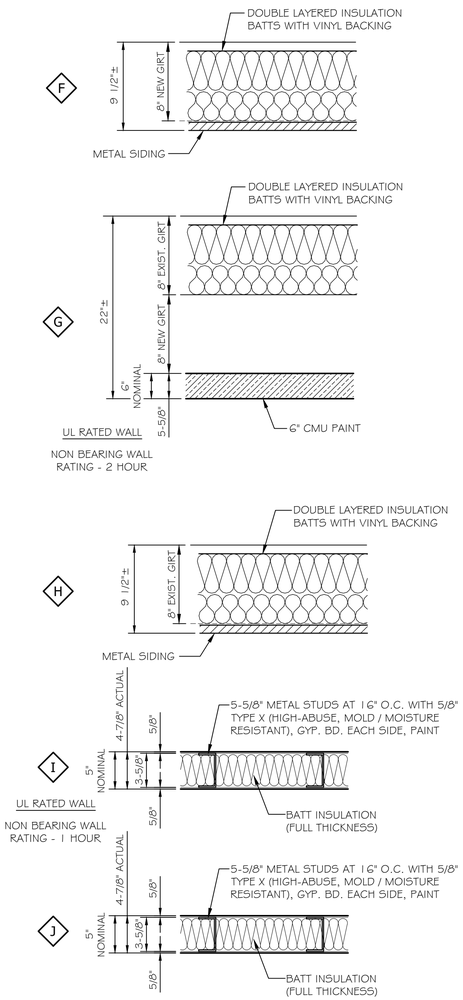
CABINET NOTES :

1. ALL CABINET STYLES, DOORS (INSIDE & OUT), DRAWERS, KNEE SPACE AND ALL EXPOSED SIDES SHALL RECEIVE PLASTIC LAMINATE, COLOR SHALL BE SELECTED AT A LATER DATE BY THE OWNER FROM CONTRACTOR'S SUBMITTALS. ALL REMAINING SURFACES SHALL BE WHITE MELAMINE.
2. ALL DIMENSIONS SHOWN ARE TO FINISHED FACE.
3. CABINET DIMENSIONS ARE FOR THE PURPOSE OF ASSISTING IN GENERAL LAYOUT. THE CONTRACTOR MUST FIELD MEASURE CABINET AREA & MAKE REQUIRED ADJUSTMENTS TO CABINETS TO ASSURE PROPER INSTALLATION.
4. THE CABINET LAYOUTS SHALL BE USED TO ASSIST THE CONTRACTORS IN DETERMINING A BID PRICE. THE EXACT CABINET REQUIREMENTS FOR SIZE OF DRAWERS AND DOORS SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL REFLECTING THOSE REQUIREMENTS.
5. APPLIANCES ARE TO BE PROVIDED BY OWNER, HOWEVER THE CONTRACTOR SHALL VERIFY W/ OWNER, MICROWAVE & REFRIGERATOR DIMENSIONS PRIOR TO CONSTRUCTING CABINETRY TO ASSURE PROPER FIT.

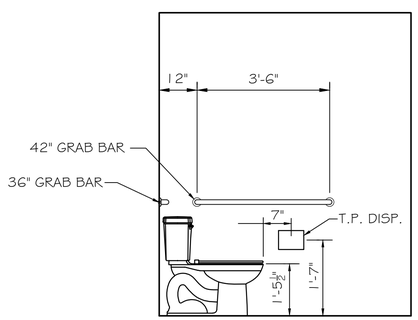




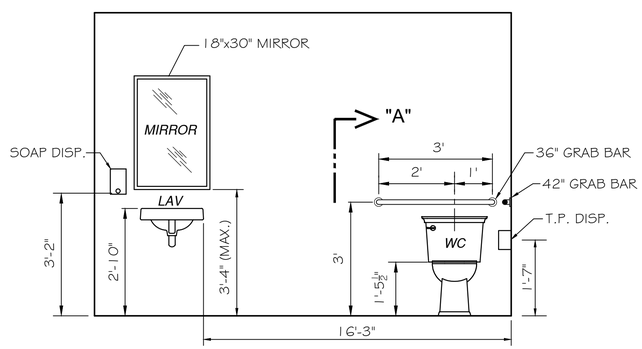




TYPICAL WALL DETAILS

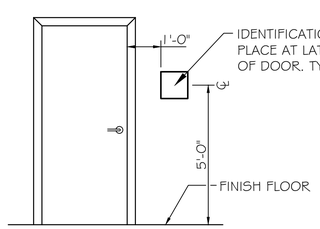


SECTION "A"

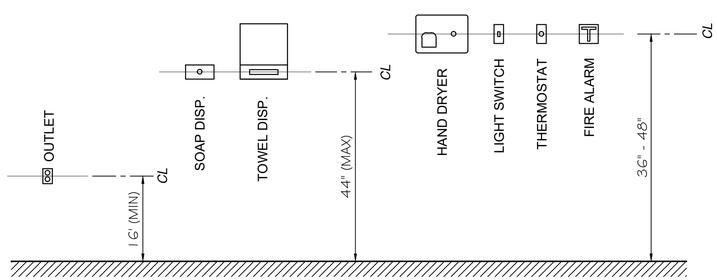


VIEW

RESTROOM - INTERIOR ELEVATION



TYPICAL REST ROOM SIGNAGE PLACEMENT

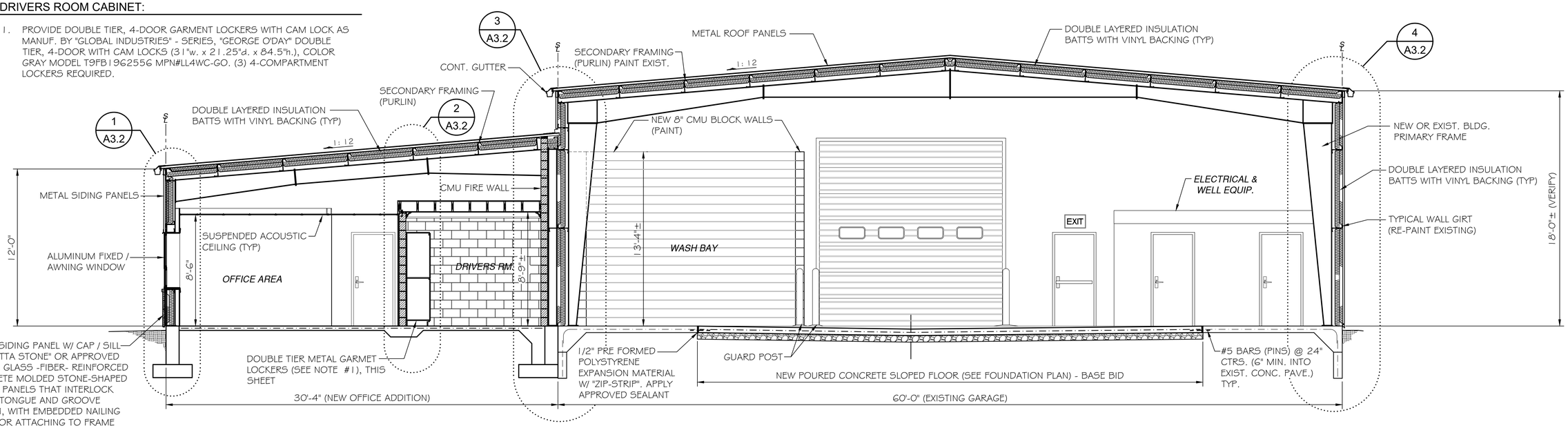


OPERABLE HEIGHT LIMITS

DRAWN BY: Tim H	REVISIONS				PERU MORRIS OTTAWA MENDOTA ILLINOIS
CHECKED BY: Andy W.	LEVEL	BY	DATE	DESCRIPTION	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS
DATE: 4-2024					INTERIOR DETAILS
					BID SET
					CURRENT AS OF: 4-8-2024
					SCALE: AS NOTED SHEET A3.0
					FILE NO.: 2452.00 Y- OF

DRIVERS ROOM CABINET:

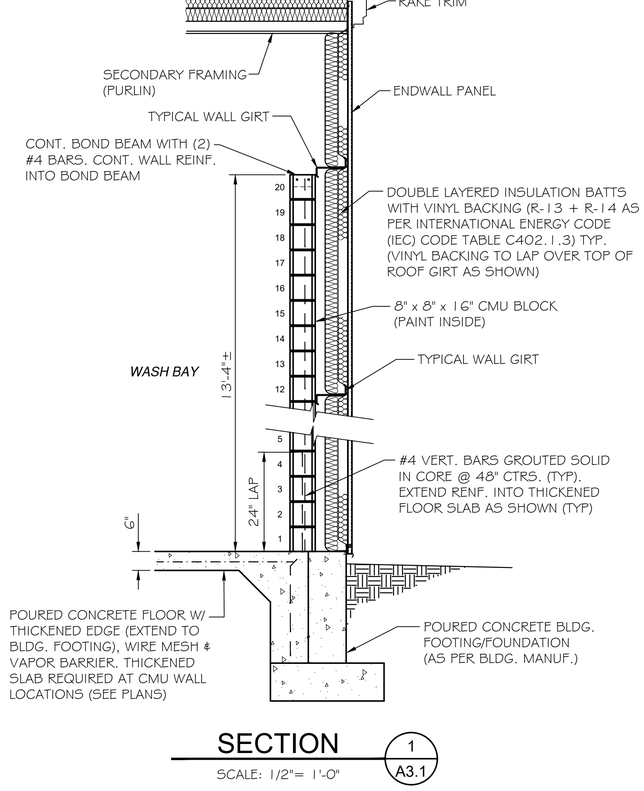
1. PROVIDE DOUBLE TIER, 4-DOOR GARMENT LOCKERS WITH CAM LOCK AS MANUF. BY "GLOBAL INDUSTRIES" - SERIES, "GEORGE O'DAY" DOUBLE TIER, 4-DOOR WITH CAM LOCKS (31"w. x 21.25"d. x 84.5"h.), COLOR GRAY MODEL T9FB1962556 MPN#LL4WC-GO. (3) 4-COMPARTMENT LOCKERS REQUIRED.



THRU SECTION

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

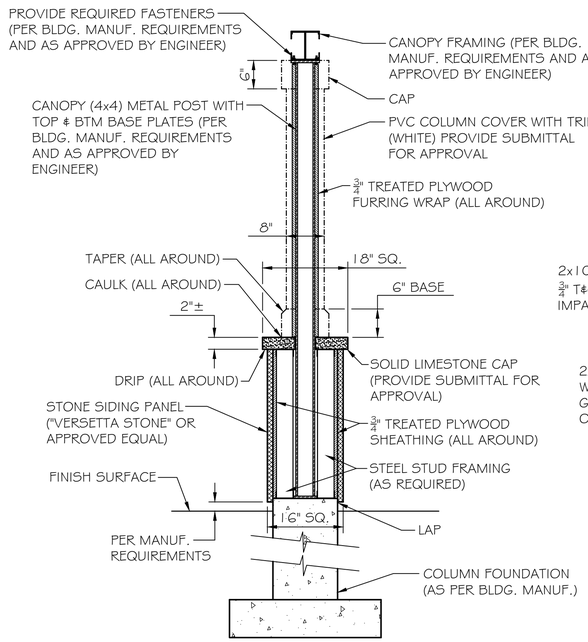
3 A3.1



SECTION

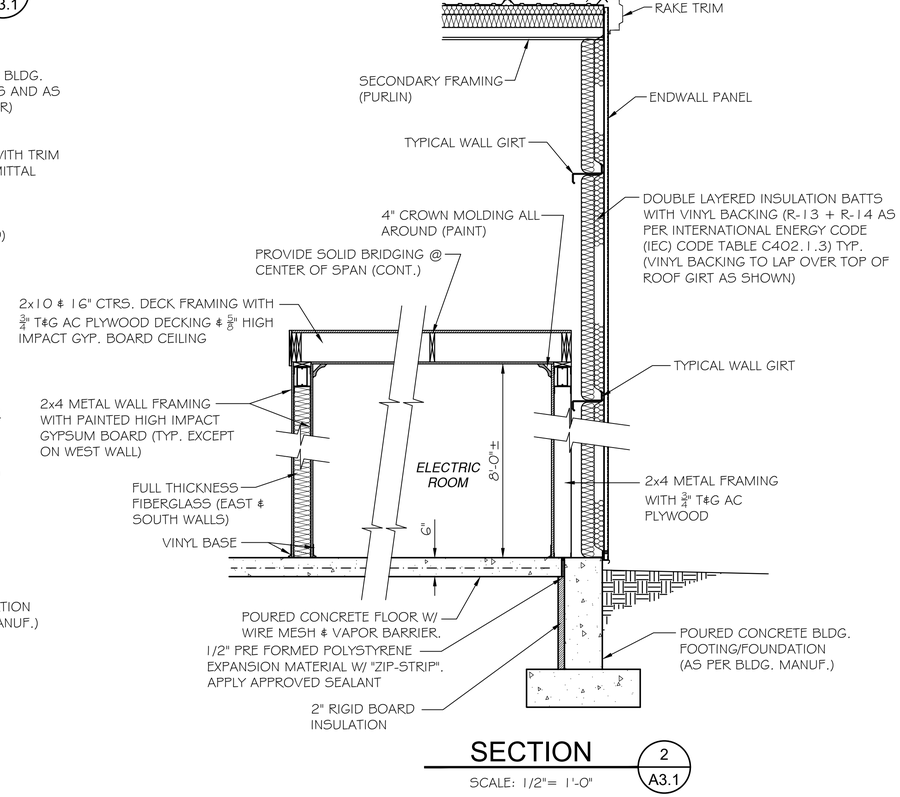
SCALE: 1/2"= 1'-0"

1 A3.1



CANOPY COLUMN DETAIL

SCALE: 3/4"= 1'-0"



SECTION

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

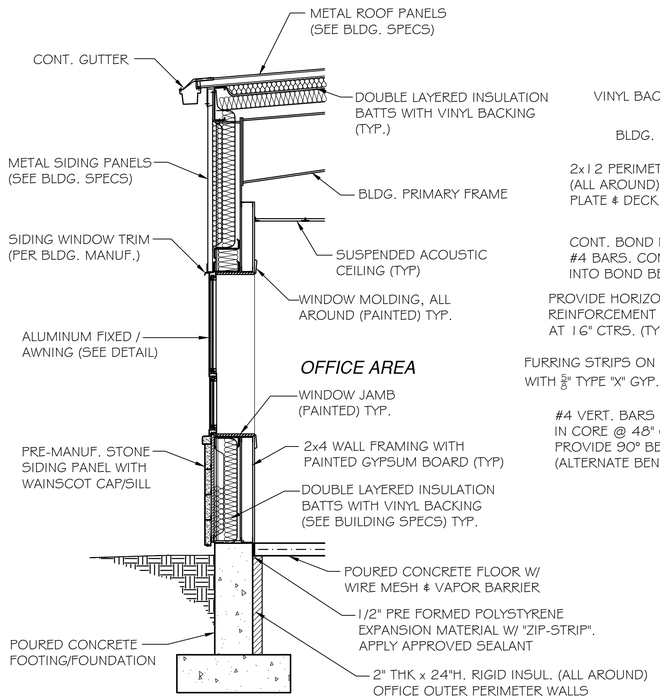
2 A3.1

DRAWN BY: Tim H	PERU MORRIS OTTAWA MENDOTA ILLINOIS	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS	BUILDING THRU SECTION & WALL DETAILS	BID SET	CURRENT AS OF: 4-8-2024
CHECKED BY: Andy W.					SCALE: As Noted — SHEET A3.1
DATE: 4–2024					FILE NO.: 2452.00 Y– — OF

REVISIONS

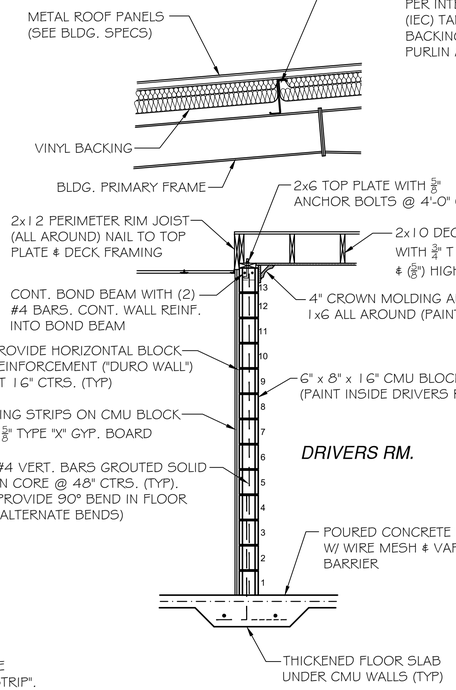
LEVEL	BY	DATE	DESCRIPTION

Chamlin & Associates



SECTION 1 / A3.2

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



SECTION 2 / A3.2

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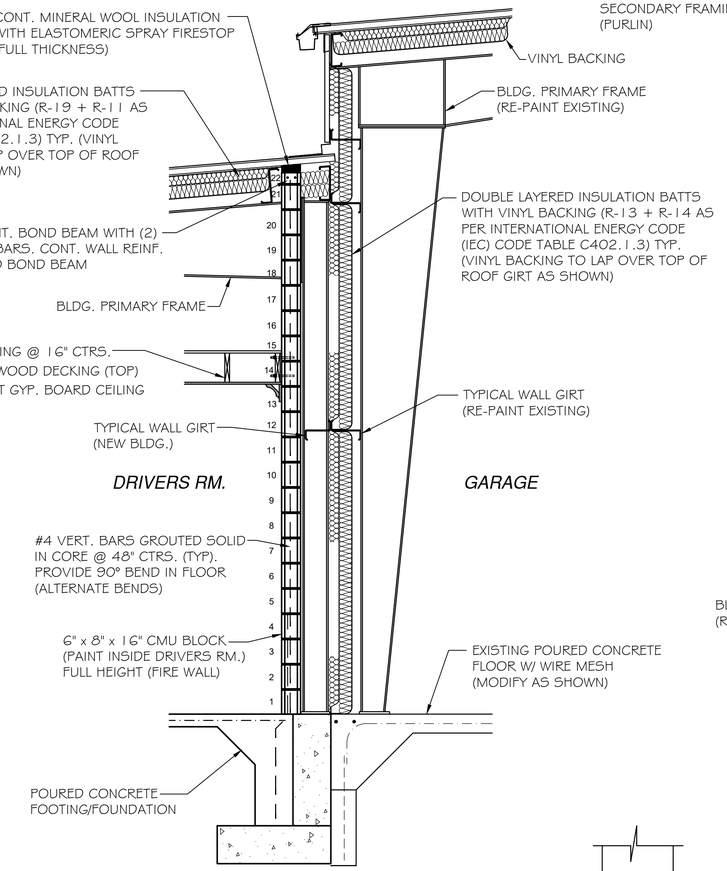
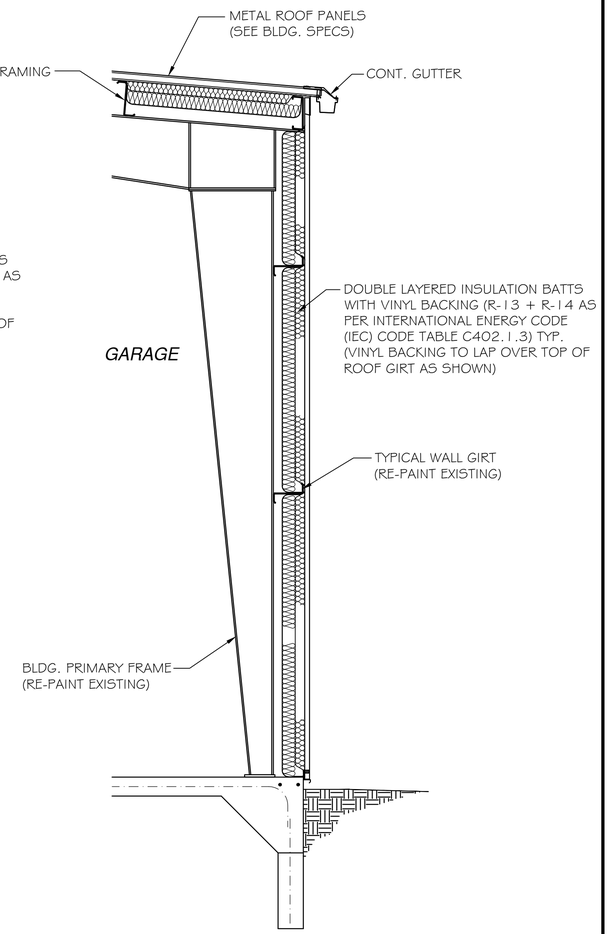


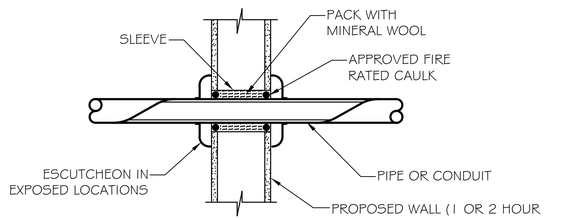
SECTION 3 / A3.2

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



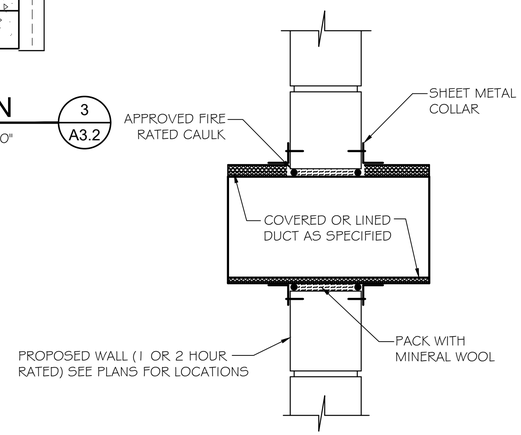
SECTION 4 / A3.2

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



PIPE THRU FIRE RATED WALL ASSEMBLY

N.T.S.



DUCT THRU FIRE RATED WALL ASSEMBLY

(THRU FLOOR SIMILAR)

N.T.S.

DRAWN BY: Tim H	REVISIONS			Chamlin & Associates	PERU MORRIS OTTAWA MENDOTA ILLINOIS
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS
DATE: 4–2024					BUILDING WALL SECTIONS

BID SET

CURRENT AS OF: 4-8-2024

SCALE: AS NOTED | SHEET A3.2

FILE NO.: 2452.00 Y– | OF

Drawing Name: C:\Users\KAA-4\DWGS\2452-00-GRUNDY-BUS-BARN\CAD\Building Plans\Bld Plans\A3.2 Building Wall Sections.dwg Last Modified: Wednesday, April 10, 2024 8:26:51 AM Plotted On: Wednesday, April 10, 2024 9:13:03 AM by Tim Harris

ROOM FINISH SCHEDULE

NAME	AREA (SF)	FLOOR FINISH	BASE FINISH	CEILING FINISH	CEILING HEIGHT	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	COMMENTS
OFFICE 1 & CL.	176	C	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
OFFICE 2 & CL.	172	C	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
OFFICE 3 & CL.	174	C	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
CORRIDOR 1	-	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
CORRIDOR 2	-	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	2
CONFERENCE ROOM	240	C	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
I.T. ROOM	94	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
CLOSET 1	37	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
MECH. ROOM	107	CONC.	VB	DW	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
RECEPTION	135	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
DRIVERS ROOM	96	VP	VB	DW	8'-6"±	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	8
WAITING	120±	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
FOYER	80	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	1
RESTROOM - 1	64	VP	VB	ACT-1	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	4,5
RESTROOM - 2	64	VP	VB	ACT-1	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	4,5
CORRIDOR - 3	-	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
DISPATCH	320	C	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	2
BREAKROOM	256	VP	VB	ACT-2	8'-6"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
GARAGE	12,700±	CONC.	-	-	VARIES	VINYL	-	VINYL	-	VINYL	-	VINYL	-	3,7
WASHBAY	500	CONC.	EPOXY	-	-	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	6, 9
ELECT. ROOM	120	CONC	VB	DW	8'-0"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-
WELL EQUIP. ROOM	135	CONC	VB	DW	8'-0"	DW	PNT	DW	PNT	DW	PNT	DW	PNT	-

ROOM FINISH SCHEDULE ABBREVIATIONS:

ACT-1 = 2' x 2' TEGULAR ACOUSTICAL CEILING TILE, "ARMSTRONG" 954 HUMIGUARD PLUS.

ACT-2 = 2' x 2' TEGULAR ACOUSTICAL CEILING TILE, "ARMSTRONG" 271 SAHARA.

DW =(5/8") TYPE "X" DRYWALL

PNT= PAINT (1-COAT PRIMER, (2) COATS FINISH)

VB = 4" VINYL BASE

CPT = CARPET TILE (24"x24") "U-TILE" MS-765-6007, UTILE MODULAR-LOFT STALLION 21, FULLY ADHERED (GLUE).

CONC. = CONCRETE

VP = VINYL PLANKING "MOHAWK" MAGUIRE (MGR01) 20 MIL. FINISH (GLUE DOWN). THIS PRODUCT MEETS ASTM E648 (CLASS-1) AS REQUIRED BY CODE.

PLWD=PLYWOOD SHEATHING (UN-FINISHED)

EPX = EPOXY FLOOR COATING WITH SLIP RESISTANT ADDITIVE (SEE SPECS.)

CMU = CONCRETE MASONRY UNITS (EXPOSED)

SC = SEALED CONCRETE (MET-CON 3000)

ROOM FINISH SCHEDULE COMMENTS:

1. **PROVIDE HOLD DOWN CLIPS ON ACOUSTICAL CEILING.**
2. **PROVIDE FURRING AND DRYWALL OVER CMU.**
3. **PAINT ALL EXISTING PRIMARY & SECONDARY BLDG. FRAMING.**
4. **PROVIDE MOISTURE / MOLD RESISTANT ACOUSTICAL CEILING TILE.**
5. **PROVIDE MOISTURE / MOLD RESISTANT DRYWALL**
6. **PROVIDE EPOXY FLOOR PAINT FINISH (WASH BAY FLOOR ONLY) SEE SPECIFICATIONS.**
7. **PROVIDE "METCON-3000 FLOOR PROTECTION ON ENTIRE GARAGE FLOOR (NEW & EXISTING). PREP. FLOORS PER MANUF REQUIREMENTS.**
8. **PROVIDE TWO COATS WALL PAINT WITH PROPER BLOCK FILLER ON ALL INTERIOR OFFICE CMU WALLS (SEE SPECIFICATIONS).**
9. WASH BAY C.M.U. WALLS SHALL RECEIVE PAINTED FINISH OF TWO COATS OF HI-BUILD EPOXY COATING (INSIDE & OUT). APPLY REQUIRED BLOCK FILLER AS PER MANUF. RECOMMENDATIONS. (SEE SPECIFICATIONS).

DOOR SCHEDULE

MARK	DOOR TYPE	DOOR MATERIAL	WIDTH	HEIGHT	FRAME MATERIAL	HARDWARE	COMMENTS
1	E	ALUM / GL	7'(3' DOOR)	7'-0"	ALUM.	1	5
2	E	ALUM / GL	7'(3' DOOR)	7'-0"	ALUM.	2	
3	A	WD	3'-0"	7'-0"	HM	3	
4	B	WD	(2) 2'-0"	7'-0"	HM	4	
5	B	WD	(2) 2'-0"	7'-0"	HM	4	
6	B	WD	(2) 2'-0"	7'-0"	HM	4	
7	A	WD	3'-0"	7'-0"	HM	3	
8	A	WD	3'-0"	7'-0"	HM	3	
9	C	WD	3'-0"	7'-0"	HM	7	3
10	A	WD	3'-0"	7'-0"	HM	3	
11	B	WD	(2) 2'-0"	7'-0"	HM	4	
12	B	WD	(2) 2'-0"	7'-0"	HM	4	
13	A	WD	3'-0"	7'-0"	HM	3	
14	A	WD	3'-0"	7'-0"	HM	6	1
15	A	WD	3'-0"	7'-0"	HM	3	
16	A	WD	3'-0"	7'-0"	HM	3	
17	A	WD	3'-0"	7'-0"	HM	3	
18	A	WD	3'-0"	7'-0"	HM	3	
19	A	WD	3'-0"	7'-0"	HM	5	
20	A	WD	3'-0"	7'-0"	HM	5	
21	D	HM	3'-0"	7'-0"	HM	8	2,3,4,7
22	C	HM	3'-0"	7'-0"	HM	7	3
23	C	HM	3'-0"	7'-0"	HM	7	3
24	C	HM	3'-0"	7'-0"	HM	7	3
25	C	HM	3'-0"	7'-0"	HM	6	1
26	C	HM	3'-0"	7'-0"	HM	6	1
27	C	HM	3'-0"	7'-0"	HM	6	

DOOR HARDWARE SETS

1 GEAR HINGE
WEATHER STRIP AND BOTTOM SWEEP
CLOSER
OUTSIDE PULL HANDLES
INTERIOR RIM MOUNTED EXIT DEVICES WITH EXTERIOR KEY FOB
THRESHOLD

2 GEAR HINGE
CLOSER
PUSH PLATE AND PULL HANDLE

3 3 BUTTS
OFFICE LOCKSET

4 RIGHT LEAF: 3 BUTTS, PASSAGE SET (OUTSIDE LEVER) — LEFT LEAF: 3 BUTTS, OUTSIDE LEVER (DUMMY), STRIKE PLATE

5 3 BUTTS
PRIVACY SET

6 3 BUTTS
CLOSER
PASSAGE SET

7 3 BUTTS
CLOSER
INTERIOR RIM MOUNTED EXIT DEVICE WITH EXTERIOR CYLINDER LOCK
WEATHER STRIP AND BOTTOM SWEEP
THRESHOLD

8 3 BUTTS
CLOSER
INTERIOR RIM MOUNTED EXIT DEVICE WITH EXTERIOR CYLINDER LOCK
WEATHER STRIP AND BOTTOM SWEEP
THRESHOLD

DOOR SCHEDULE ABBREVIATIONS:

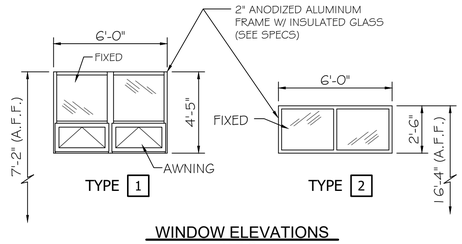
WD = WOOD
HM = HOLLOW METAL
AL = ALUMINUM
PNT = PAINT
SV = STAIN & VARNISH
OHD = SECTIONAL OVERHEAD DOOR
IM = INSULATED PRE-FINISHED METAL

DOOR SCHEDULE COMMENTS:

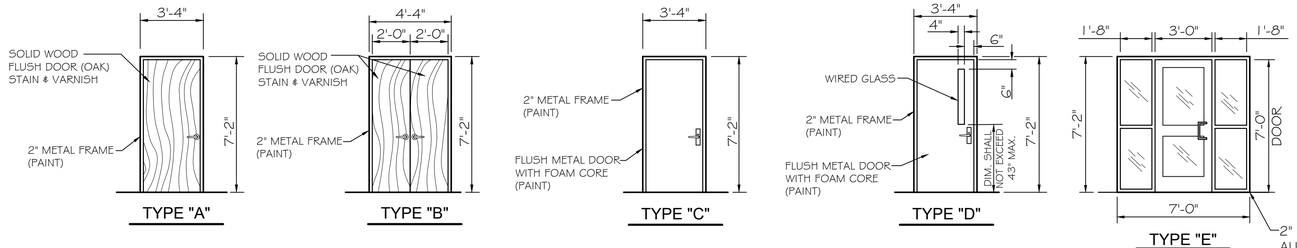
1. **¾ - HOUR LABELED DOOR AND FRAME**
2. **1 ½ - HOUR LABELED DOOR AND FRAME**
3. **PROVIDE THRESHOLD, DOOR SWEEP & WEATHER STRIP**
4. **PROVIDE WIRED GLASS**
5. **PROVIDE ELECTRONIC KEY FOB (SEE ELECTRICAL PLANS)**
6. **PROVIDE CONTINUOUS ANGLE MOUNTED 3" TRACK (LIFT CLEARANCE) WITH JACKSHAFT OPERATOR AND PUSH BUTTON STATION (EACH DOOR). PROVIDE (25) REMOTE DOOR OPERATORS FOR VEHICLE PLACEMENT.**
7. **ALL HARDWARE SHALL BE FIRE RATED TO MEET DOOR RATING.**

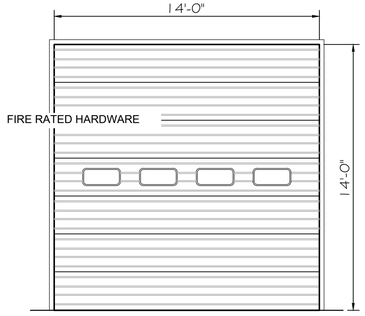
DOOR NOTES:

1. ALL DOORS SHALL HAVE FLOOR OR WALL MOUNTED STOPS.
2. ALL DOOR SETS SHALL INCLUDE HEAVY-DUTY COMMERCIAL GRADE LEVER HANDLES. ALL HARDWARE SHALL BE IN STRICT ACCORDANCE W/ THE ILLINOIS ACCESSIBILITY CODE.
3. DOOR LOCKS SHALL BE KEYED ALIKE AND MATCH OWNERS EXISTING MASTER KEY.
4. ALL METAL EXTERIOR DOORS WITH EXIT DEVICE SHALL FUNCTION AS FOLLOWS: KEY SHALL OPERATE LATCH. LEVER HANDLE RETRACTS LATCH EXCEPT WHEN LOCKED BY CYLINDER (INSIDE PANIC DEVICE ALWAYS OPERATES LATCH). LATCH DOGGING NOT REQUIRED (ALUMINUM ENTRY DOOR TO OPERATE WITH KEY FOB AS INDICATED ON ELECTRICAL PLANS).
5. METAL DOORS SHALL BE REINFORCED STEEL (18 GAUGE MIN.) W/ 16 GAUGE STEEL FRAME.
6. ALL EGRESS DOORS (OTHER THAN FIRE DOORS) MUST BE OPERABLE WITH A MAX. FORCE OF 5LBS. AND IF CLOSER PROVIDED, THE MIN. CLOSING SPEED SHALL BE 5 SEC. WHEN CLOSING FROM 90 DEGREES TO 12 DEGREES (SEE IBC 2021-SECTION 1010.1.3)
7. FOR FIRE RATED SWING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECT TO A (15)POUND FORCE. THE DOOR SHALL BE SET IN MOTION WORN SUBJECT TO A (30) POUND FORCE. THE DOOR SHALL SWING TO A FULL-OPEN POSITION WHEN SUBJECT TO (15) POUND FORCE. (SEE IBC 2021-SECTION 1010.1.3)
8. ALL FIRE RATED DOORS SHALL BE SELF-CLOSING & SECURE LATCHING AS PER IBC, SECTION 716.2.6 AND NFPA 80.



WINDOW ELEVATIONS
N.T.S.





OVERHEAD GARAGE DOOR

DRAWN BY: Tim H	REVISIONS			
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION
DATE: 4-2024				

Chamlin & Associates

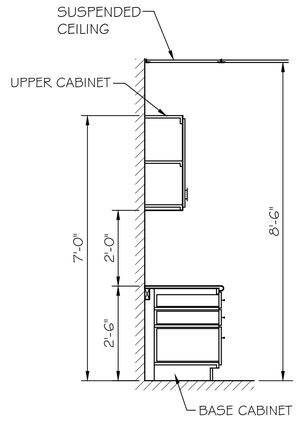
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

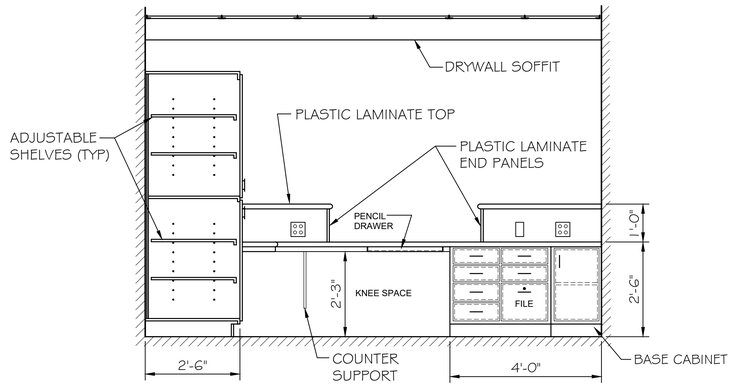
ROOM FINISH SCHEDULE AND DOOR SCHEDULE

BID SET

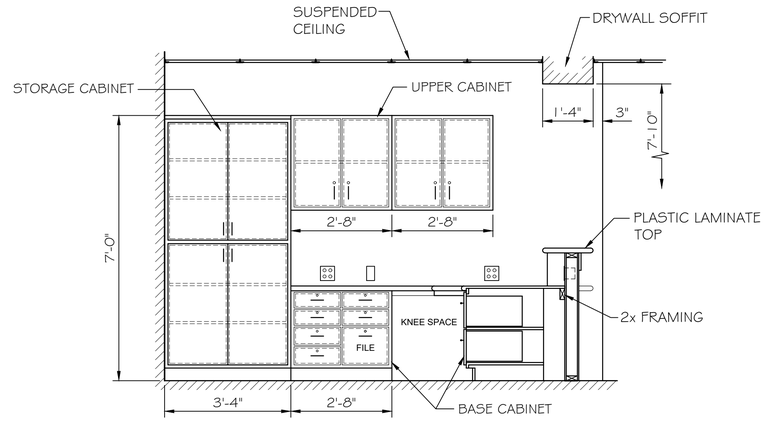
CURRENT AS OF: 4-8-2024
SCALE: AS NOTED
SHEET A4.0
FILE NO.:2452.00 Y-
OF



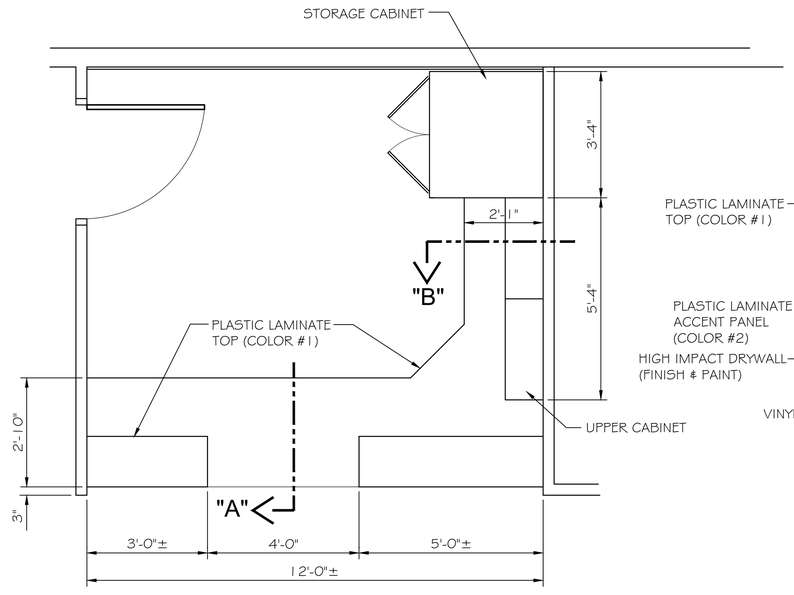
SECTION "B"



SECTION - LOOKING SOUTH

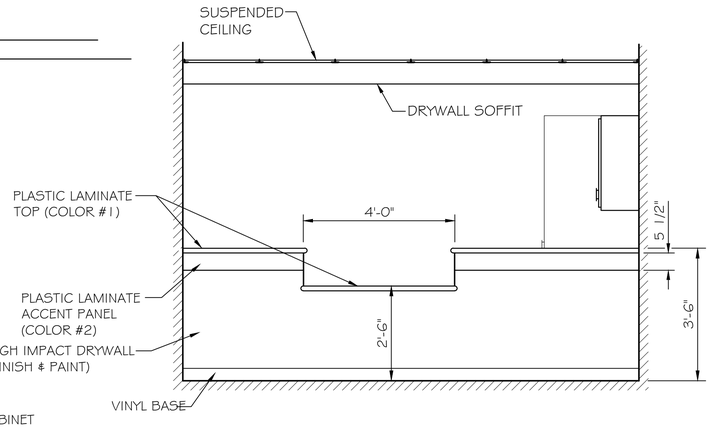


SECTION - LOOKING EAST



PLAN VIEW

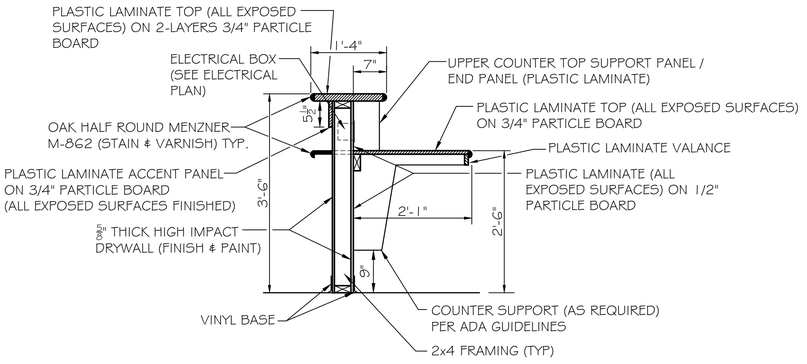
NORTH



VIEW - LOOKING NORTH

RECEPTION DESK

N.T.S.



SECTION "A"

CABINET NOTES :

1. ALL CABINET STYLES, DOORS (INSIDE & OUT), DRAWERS, KNEE SPACE AND ALL EXPOSED SIDES SHALL RECEIVE PLASTIC LAMINATE, COLOR SHALL BE SELECTED AT A LATER DATE BY THE OWNER FROM CONTRACTOR'S SUBMITTALS. ALL REMAINING SURFACES SHALL BE WHITE MELAMINE.
2. ALL DIMENSIONS SHOWN ARE TO FINISHED FACE.
3. CABINET DIMENSIONS ARE FOR THE PURPOSE OF ASSISTING IN GENERAL LAYOUT. THE CONTRACTOR MUST FIELD MEASURE CABINET AREA & MAKE REQUIRED ADJUSTMENTS TO CABINETS TO ASSURE PROPER INSTALLATION.
4. THE CABINET LAYOUTS SHALL BE USED TO ASSIST THE CONTRACTORS IN DETERMINING A BID PRICE. THE EXACT CABINET REQUIREMENTS FOR SIZE OF DRAWERS AND DOORS SHALL BE DETERMINED BY THE OWNER. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL REFLECTING THOSE REQUIREMENTS.
5. VERIFY REQUIRED ELECTRICAL & COMMUNICATION EQUIPMENT LOCATIONS IN CABINETRY (SEE ELECTRICAL PLANS).

DRAWN BY: Tim H
CHECKED BY: Andy W.
DATE: 4–2024

REVISIONS			
LEVEL	BY	DATE	DESCRIPTION

Chamlin & Associates
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

RECEPTION DESK DETAILS

BID SET

CURRENT AS OF: 4-8-2024
SCALE: As Noted
SHEET A5.0
FILE NO.: 2452.00 Y–
OF

2021 IBC - SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	EXTENT	INSTRUCTIONS/FREQUENCY
INSPECTION OF FABRICATORS (IBC 1704.2.5)		
VERIFY FABRICATION/QUALITY CONTROL PROCEDURES	PERIODIC	REVIEW THE QUALITY CONTROL PROCEDURES OF THE FOLLOWING FABRICATORS FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE FABRICATOR'S SCOPE OF WORK: STEEL FABRICATOR, WOOD TRUSS FABRICATOR, REBAR FABRICATOR.
STEEL CONSTRUCTION (IBC 1705.2)		
FABRICATOR AND ERECTOR DOCUMENTS (VERIFY REPORTS AND CERTIFICATES AS LISTED IN AISC 360-16, CHAPTER N, SECTION 3 FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS)	EACH SUBMITTAL	TO BE COMPLETED IN SUBMITTAL REVIEW PROCESS.
MATERIAL VERIFICATION OF STRUCTURAL STEEL	PERIODIC	PERFORM SHOP AND FIELD INSPECTION.
VERIFY DIAMETER, GRADE, TYPE, LENGTH, AND EMBEDMENT OF ANCHOR RODS FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS.	CONTINUOUS	
VERIFY MEMBER LOCATIONS, BRACES, STIFFENERS, AND APPLICATION OF JOINT DETAILS AT EACH CONNECTION COMPLY WITH CONSTRUCTION DOCUMENTS.	CONTINUOUS	
STRUCTURAL STEEL (IBC 1705.2.1)		
• PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16):		
> NOT REQUIRED IF ONLY SNUG-TIGHT JOINTS ARE SPECIFIED [PER SECTION N5.6 OF AISC 360-16].		
CERTIFICATIONS OF FASTENERS	PERFORM	
FASTENERS MARKED	OBSERVE	VERIFY THAT FASTENERS HAVE BEEN MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. THIS INCLUDES THE REQUIRED PACKAGE MARKING OF THE FASTENERS AND FASTENER COMPONENTS.
CORRECT FASTENERS FOR JOINT	OBSERVE	VERIFY GRADE, TYPE, AND BOLT LENGTH IF THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
CORRECT BOLTING PROCEDURE	OBSERVE	VERIFY CORRECT PROCEDURE IS USED FOR THE JOINT DETAIL.
CONNECTING ELEMENTS	OBSERVE	VERIFY APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET REQUIREMENTS.
PRE-INSTALLATION VERIFICATION TESTING	OBSERVE	OBSERVE AND DOCUMENT VERIFICATION TESTING BY INSTALLATION PERSONNEL FOR FASTENER ASSEMBLIES AND METHODS USED.
PROTECTED STORAGE	OBSERVE	VERIFY PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.
• DURING BOLTING (TABLE N5.6-2, AISC 360-16):		
> NOT REQUIRED IF ONLY SNUG-TIGHT JOINTS ARE SPECIFIED [PER SECTION N5.6 OF AISC 360-16].		
> NOT REQUIRED FOR PRETENSIONED JOINTS USING TURN-OF-THE-NUT METHOD WITH MATCH-MARKING, DIRECT-TENSION-INDICATORS, OR TWIST-OFF TYPE TENSION CONTROL METHOD [PER SECTION N5.6 OF AISC 360-16].		
FASTENER ASSEMBLIES	OBSERVE	VERIFY THAT FASTENER ASSEMBLIES ARE OF SUITABLE CONDITION, PLACED IN ALL HOLES, AND WASHERS ARE POSITIONED AS REQUIRED.
SNUG-TIGHT PRIOR TO PRETENSIONING	OBSERVE	VERIFY THAT JOINTS ARE BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION.
FASTENER COMPONENT	OBSERVE	VERIFY THAT FASTENER COMPONENT IS NOT TURNED BY WRENCH PREVENTED FROM ROTATING.
PRETENSIONED FASTENERS	OBSERVE	VERIFY THAT FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.
• AFTER BOLTING (TABLE N5.6-3, AISC 360-16):		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	PERFORM	
INSPECTION OF GALVANZIED STRUCTURAL STEEL MAIN MEMBERS (SECTION N5.7, AISC 360-16):		
CRACKS ON CUT SURFACES	PERFORM	EXPOSED CUT SURFACES OF GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF HSS SHALL BE VISUALLY INSPECTED FOR CRACKS SUBSEQUENT TO GALVANIZING. CRACKS SHALL BE REPAIRED OR THE MEMBER SHALL BE REJECTED.
OTHER STEEL INSPECTIONS (SECTION N5.8, AISC 360-16; TABLE J8.1):		
ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL	CONTINUOUS	SHALL BE ON THE PREMISES DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS. VERIFY THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.
FABRICATED STEEL OR ERECTED STEEL FRAME	PERFORM	VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS (INCLUDES SUCH ITEMS AS BRACES, STIFFENERS, MEMBER LOCATIONS AND THE CORRECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

2021 IBC - SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	EXTENT	INSTRUCTIONS/FREQUENCY
COLD-FORMED STEEL DECK (IBC 1705.2.2)		
CONCRETE CONSTRUCTION (IBC 1705.3 AND IBC TABLE 1705.3):		
1.1): INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	PERIODIC	REFERENCE ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3 AND IBC 1908.4
WELDING OF REINFORCING BARS:		REFERENCE AWS D1.4 AND ACI 318: 26.6.4
VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	PERIODIC	
INSPECT SINGLE-PASS FILLET WELDS (MAX = 5/16")	PERIODIC	
INSPECT ALL OTHER WELDS	CONTINUOUS	
INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	REFERENCE ACI 318: 17.8.2
INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:	CONTINUOUS	SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH ACI 318: 17.8.2 OR OTHER QUALIFICATION PROCEDURES. WHERE NOT PROVIDED, CONSULT WITH REGISTERED DESIGN PROFESSIONAL FOR REQUIREMENTS TO BE APPROVED BY BUILDING OFFICIAL PRIOR TO PROCEEDING.
• ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	CONTINUOUS	REFERENCE ACI 318: 17.8.2.4
MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	PERIODIC	REFERENCE ACI 318: 17.8.2
VERIFY USE OF REQUIRED DESIGN MIX.	PERFORM	REFERENCE ACI 318: CH. 19, 26.4.3, 26.4.4 AND IBC 19104.1-2, 1908.2-3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	REFERENCE ASTM C172 & C31; ACI 318: 26.4, 26.12; IBC 1908.10
INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	REFERENCE ACI 318: 26.5 AND IBC 1908.6-8
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	REFERENCE ACI 318: 26.5.3-5 AND IBC 1908.9
INSPECT PRESTRESSED CONCRETE FOR:		
APPLICATION OF PRESTRESSING FORCES	CONTINUOUS	REFERENCE ACI 318: 26.10
GROUTING OF BONDED PRESTRESSING TENDONS	CONTINUOUS	REFERENCE ACI 318: 26.10
INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	PERIODIC	REFERENCE ACI 318: 26.8
• VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	REFERENCE ACI 318: 26.11.2
INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	REFERENCE ACI 318: 26.11.1.2(B)
MASONRY CONSTRUCTION (IBC 1705.4)		
LEVEL 2 QUALITY ASSURANCE (TMS 402-16 TABLE 3.1 & TMS 602-16 TABLES 3&4)		APPLICABLE TO RISK CATEGORIES I, II, III
VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS PRIOR TO CONSTRUCTION		MINIMUM VERIFICATION - REFERENCE TMS 602, ART. 1.5
VERIFY F'M AND F'AAC PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE		MINIMUM VERIFICATION - REFERENCE TMS 602, ART. 1.4 B
1.2): VERIFY SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE		MINIMUM VERIFICATION - REFERENCE TMS 602, ART. 1.5 & 1.6.3
• AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:		
PROPORTIONS OF SITE-PREPARED MORTAR	PERIODIC	REFERENCE TMS 602, ART. 2.1, 2.6 A & 2.6 C
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	REFERENCE TMS 602, ART. 3.4 & 3.6 A
GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	PERIODIC	REFERENCE TMS 602, ART. 3.4 & 3.6 A
SAMPLE PANEL CONSTRUCTION	PERIODIC	REFERENCE TMS 602, ART. 1.6 D
PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:		
GROUT SPACE	PERIODIC	REFERENCE TMS 602, ART. 3.2 D & 3.2 F
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	PERIODIC	REFERENCE TMS 402, SEC. 6.1, 6.3.1, 6.3.6 & 6.3.7 AND TMS 602, ART. 3.2 E & 3.4
PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	PERIODIC	REFERENCE TMS 602, ART. 2.6 B & 2.4 G.1.B
VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:		
MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	PERIODIC	REFERENCE TMS 602, ART. 1.5
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	PERIODIC	REFERENCE TMS 602, ART. 3.3 B
SIZE AND LOCATION OF STRUCTURAL ELEMENTS	PERIODIC	REFERENCE TMS 602, ART. 3.3 F
TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	PERIODIC	REFERENCE TMS 402, SEC. 1.2.1 (E), 6.2.1, & 6.3.1
PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (<40°F) OR HOT WEATHER (>90°F)	PERIODIC	REFERENCE TMS 602, ART. 1.8 C & 1.8 D
PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	CONTINUOUS	REFERENCE TMS 602, ART. 3.5 & 3.6 C
OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	PERIODIC	REFERENCE TMS 602, ART. 1.4 B.2.A.3, 1.4 B.2.B.3, 1.4 B.2.C.3, 1.4 B.3, 1.4 B.4

2021 IBC - SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	EXTENT	INSTRUCTIONS/FREQUENCY
STRUCTURAL OBSERVATIONS (IBC 1704.6)		
ITEM TO BE OBSERVED:		NAME OF STRUCTURAL OBSERVER
FOOTINGS & PIERS		
GRADE BEAMS		
CONCRETE WALLS		
MASONRY WALLS		
STEEL MOMENT FRAMES		
STEEL BRACED FRAMES		
CONCRETE MOMENT FRAMES		
CONCRETE DIAPHRAGMS		
STEEL DECK DIAPHRAGMS		
OTHER:		
OTHER:		
OTHER:		

*INSPECTION AGENTS FIRM	ADDRESS	TELEPHONE NO.
1. OWNER'S TESTING AGENCY		
2.		
3.		
4.		

NOTE: THE INSPECTION AND TESTING AGENT(S) SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL PRIOR TO COMMENCING WORK. THE QUALIFICATIONS OF THE INSPECTION AGENT(S) MAY BE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL.

DATE:

DEFINITIONS:
PERIODIC - PART-TIME OR INTERMITTENT OBSERVATION OF WORK THAT HAS BEEN/IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
CONTINUOUS - FULL-TIME OBSERVATION OF WORK. INSPECTOR IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
OBSERVE - INSPECT THESE ITEMS ON A RANDOM/INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.
PERFORM - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER, BOLTED CONNECTION, OR STEEL ELEMENT PRIOR TO FINAL ACCEPTANCE.

NOTES:

1. EXCEPTIONS: SPECIAL INSPECTIONS SHALL NOT BE REQUIRED FOR:
   A. ISOLATED SPREAD CONCRETE FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.
   B. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:
      1. FOOTINGS SUPPORT WALLS OF LIGHT-FRAME CONSTRUCTION.
      2. FOOTINGS ARE DESIGNED IN ACCORDANCE WITH TABLE 1809.7.
      3. THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON A SPECIFIED COMPRESSIVE STRENGTH, F'c, NO GREATER THAN 2500 POUNDS PER SQUARE INCH (PSI), REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS OR USED IN THE FOOTING CONSTRUCTION.
   C. NONSTRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRESTRESS IN THE CONCRETE IS LESS THAN 150 PSI.
   D. CONCRETE FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.2.
   E. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE.

DRAWN BY: Tim H
CHECKED BY: R.H.
DATE: 04-2024

REVISIONS

LEVEL	BY	DATE	DESCRIPTION

Chamlin & Associates
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

SPECIAL INSPECTION SCHEDULES

BID SET

CURRENT AS OF: 04-08-2024
SCALE: AS NOTED
SHEET S0.01
FILE NO.:2452.00 Y-
OF

℄ = BUILDING STEEL LINE

75'± (BUILDING ADDITION) (VERIFY WITH BLDG. MANUF.)

150'± (ORIGINAL BUILDING)

25' (TYP)

EXISTING CONC. FLOOR

6" THK. POURED CONC. FLOOR (TYP)

4" THK. POURED CONC. FLOOR (TYP) FF=557'-6"

INDICATES BREAK IN PAVEMENT

INDICATES THICKENED FLOOR SLAB

INDICATES CMU WALLS

POUR FLOOR THRU OPENING

SLOPE FLOOR AT O.H. DOOR

WASH BAY

DRIVERS ROOM

℄ MANDOOR

℄ O.H. DOOR

SLOPE

SLOPE 1%

SLOPE 1.5%

RIM=557'-3"±

FL=557'-3"±

RIM=557'-4"

557'-6"

557'-6"±

557'-5"

FD

20'-6"

12'-6"

27'-0"

18'-8"

22'-4"

16'-4"

38'-8" (NEW CONC. FLR.)

10'-8" (EXIST. CONC. FLR.)

21'-2"

11'-10"

60'±

27'

9'

5'-8"

15'-6"

14'-10"

30'-4"± (VERIFY WITH BLDG. MANUF.)

55'-0"

55'-0"

110'± (VERIFY WITH BLDG. MANUF.)

57'-6"

1 S1.1 · 2 S1.1 · 3 S1.1 · 4 S1.1 · 5 S1.1 · 6 S1.1 · 7 S1.1

FOUNDATION / PAVEMENT PLAN

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

NORTH

Drawing Name: G:\Users\AAL-MORRIS\2452-00--GRUNDY-BUS-BARN\CAD\Building Plans\Bid Plans\S1.0 Foundation Floor Plan.dwg Last Modified: Wednesday, April 10, 2024 3:59:04 PM Plotted On: Wednesday, April 10, 2024 3:59:47 PM by Tim Harris

DRAWN BY: Tim H	REVISIONS			
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION
DATE: 4–2024				

Chamlin & Associates

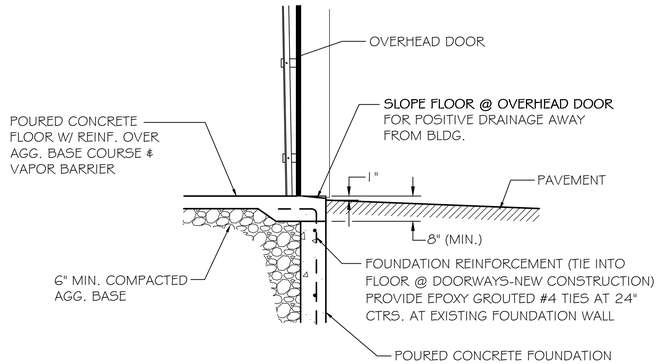
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

FOUNDATION FLOOR PLAN

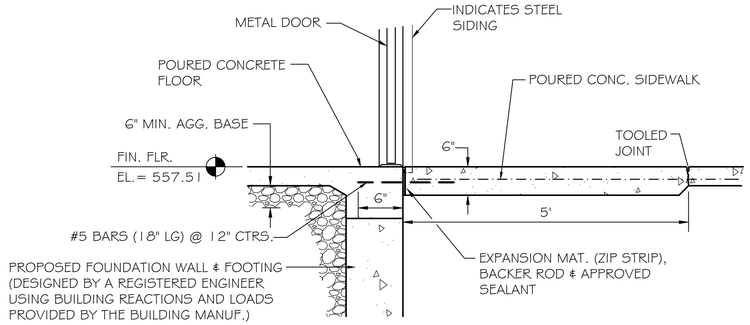
BID SET

CURRENT AS OF: 4-8-2024	
SCALE: AS NOTED	SHEET S1.0
FILE NO.:2452.00 Y–	OF



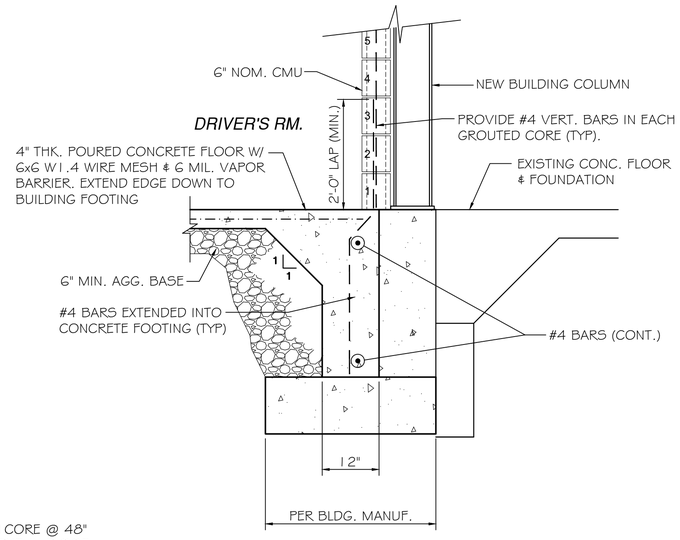
FLOOR SLAB DETAIL @ OVERHEAD DOOR

N.T.S.



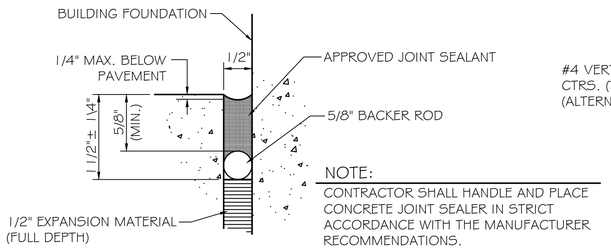
THICKEN SIDEWALK @ WALKDOOR

N.T.S.



4 / S1.1 *SECTION*

N.T.S.

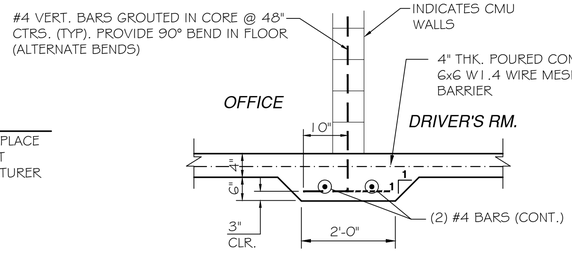


NOTE:
CONTRACTOR SHALL HANDLE AND PLACE CONCRETE JOINT SEALER IN STRICT ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.

EXTERIOR CONCRETE

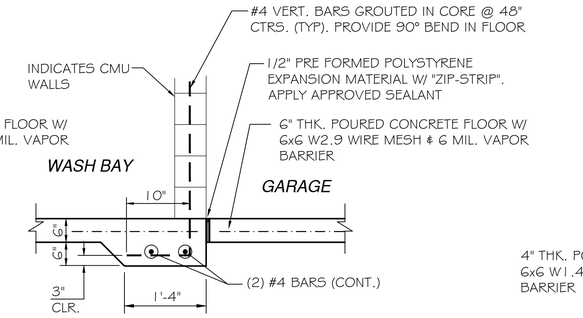
SEALANT DETAIL @ WALL PERIMETER

N.T.S.



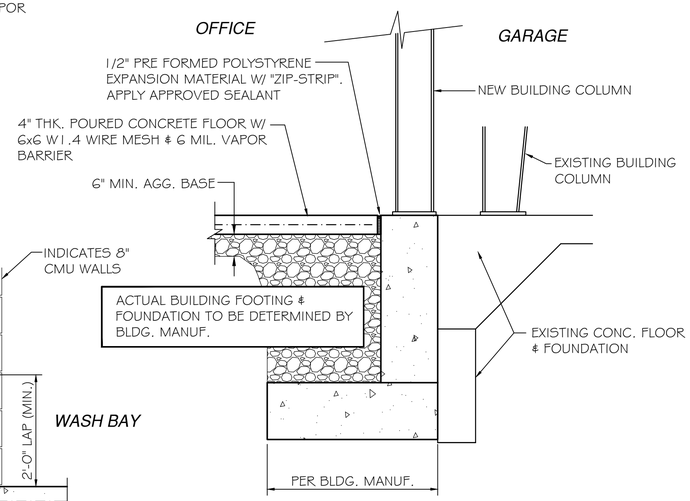
3 / S1.1 *TYPICAL THICKENED SLAB SECTION*

N.T.S.



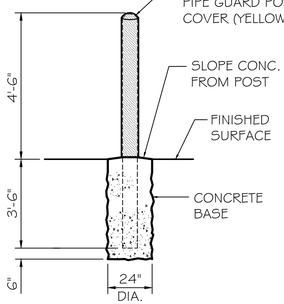
2 / S1.1 *TYPICAL THICKENED SLAB SECTION*

N.T.S.



5 / S1.1 *SECTION*

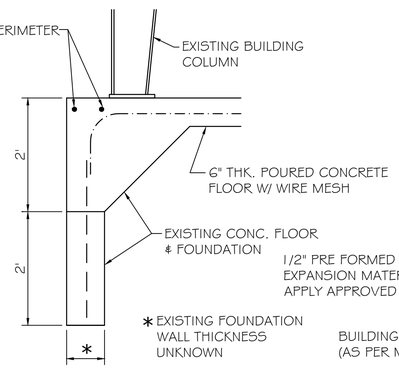
N.T.S.



DETAIL

TYPICAL GUARD POST

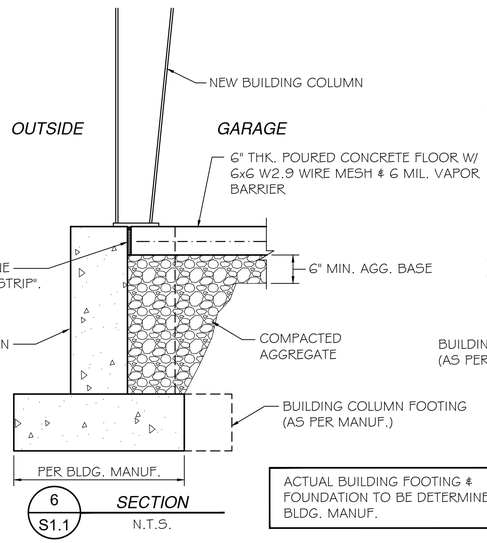
N.T.S.



7 / S1.1 *EXISTING EDGE OF BUILDING FLOOR*

N.T.S.

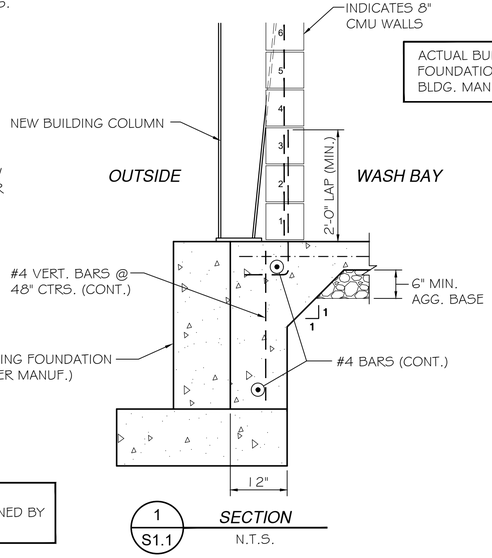
FOOTING & FLOOR INFORMATION DETERMINED BY VISUAL INSPECTION OR BY GROUND PENETRATING RADAR.



6 / S1.1 *SECTION*

N.T.S.

ACTUAL BUILDING FOOTING & FOUNDATION TO BE DETERMINED BY BLDG. MANUF.



1 / S1.1 *SECTION*

N.T.S.

DRAWN BY: Tim H	REVISIONS			
CHECKED BY: R.H.	LEVEL	BY	DATE	DESCRIPTION
DATE: 4–2024				

Chamlin & Associates

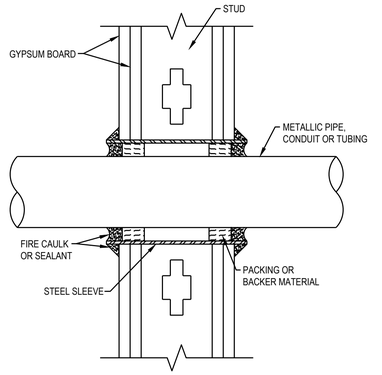
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

FOUNDATION DETAILS

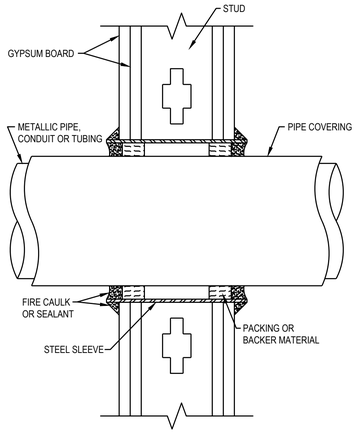
BID SET

CURRENT AS OF: 4-8-2024		
SCALE: AS NOTED	SHEET	S1.1
FILE NO.:2452.00 Y–	OF	



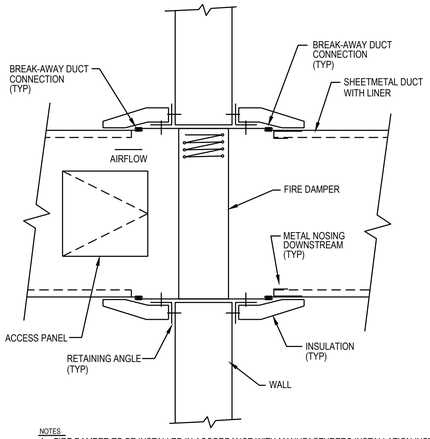
UN-INSULATED PIPE PENETRATION - STUD WALL

SCALE: NONE



INSULATED PIPE PENETRATION - STUD WALL

SCALE: NONE



NOTES:
1. FIRE DAMPER TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
2. FIRE DAMPER TO BE LISTED, LABELED AND INSTALLED IN COMPLIANCE WITH UL 555.
3. OMIT INSULATION AND METAL NOSING ON UN-INSULATED DUCT.
4. PROVIDE ACCESS DOOR AND IDENTIFICATION PER UL REQUIREMENTS.

FIRE/SMOKE DAMPER INSTALLATION DETAIL

SCALE: NONE

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
VENTILATION	
	DEMOLITION
	FIRE DAMPER
	MOTOR OPERATED DAMPER
T	THERMOSTAT
S	SENSOR
	DIRECTION OF AIRFLOW
	FLEXIBLE DUCT
	VAV BOX
	DUCT RISE/DROP
	RETURN DUCT
	SUPPLY DUCT
	FLEXIBLE CONNECTION
	SD-XX SUPPLY DIFFUSER ### CFM (#) TYPICAL
	SR-XX CEILING MOUNTED SUPPLY REGISTER ### CFM (#) TYPICAL
	XX-XX WALL MOUNTED GRILLE/REGISTER ### CFM (#) TYPICAL
	XX-XX CEILING MOUNTED GRILLE ### CFM (#) TYPICAL
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
# / YY	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
HEATING	
	SUPPLY PIPING
	RETURN PIPING
	GAS PIPING
	DEMOLITION
	PIPE FITTING
	UP / DOWN
	SHUTOFF VALVE
	THROTTLING VALVE
	BALANCING VALVE
	CONTROL VALVE
	THREE-WAY CONTROL VALVE
	CHECK VALVE
	STRAINER
R	RELIEF VALVE
R	REGULATOR
	REDUCER / INCREASER
	DIRECTION OF FLOW
	UNION
	PUMP
T	THERMOSTAT
S	SENSOR
T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
F	FLOW SENSOR
	THERMOMETER
	PRESSURE GAUGE
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
# / YY	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER

MECHANICAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION
~	APPROXIMATE
A/E	ARCHITECT / ENGINEER
AC	ABOVE CEILING
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR
AF	ABOVE FLOOR
BF	BELOW FLOOR
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOT	BOTTOM
BTU	BRITISH THERMAL UNITS
BV	BALANCING VALVE
CA	COMBUSTION AIR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CEB	CONCRETE EQUIPMENT BASE
CFM	CUBIC FEET PER MINUTE
CL	CEILING
CONTR	CONTRACTOR
CONV	CONVECTOR
CU	CONDENSING UNIT
CV	CHECK VALVE
DB	DRY BULB
DIA	DIAMETER
DN	DOWN
DV	DRAIN VALVE
EA	EXHAUST AIR
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
ENT	ENTERING
ER	EXHAUST REGISTER
ESP	EXTERNAL STATIC PRESSURE
EXP	EXPOSED
FA	FROM ABOVE
FB	FROM BELOW
FC	FAN COIL
FID	FIRE DAMPER
FL	FLOOR
FLA	FULL LOAD AMPERES
FUR	FURNACE
G	GAS
GEN	GENERAL
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HTX	HEAT EXCHANGER
HP	HORSEPOWER
LOUV	LOUVER
LVG	LEAVING
MAU	MAKEUP AIR UNIT
MBH	THOUSANDS BTU
MECH	MECHANICAL
MOD	MOTORIZED DAMPER
NC	NEW CONNECTION
OA	OUTSIDE AIR
P	PUMP
PD	PUMP DISCHARGE
Ø	DIAMETER
PHC	PRE-HEAT COIL
RA	RETURN AIR
REF	REFRIGERANT PIPING
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RHC	RE-HEAT COIL
RL	REFRIGERANT LIQUID
RLA	RUNNING OR RATED LOAD AMPS
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SD	SUPPLY DIFFUSER
SG	SUPPLY GRILLE
SHT	SHEET
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
STRUC	STRUCTURAL
SV	SHUTOFF VALVE
TA	TO ABOVE
TB	TO BELOW
TG	TRANSFER GRILLE
TV	THROTTLING VALVE
TYP	TYPICAL
UFIT	UNDER FLOOR IN TILE
UH	UNIT HEATER
V	VOLTS
VA	VENT AIR
VAV	VARIABLE AIR VOLUME
W	WATTS
WB	WET BULB
WC	WATER COLUMN
(P)	PRESENT
(PA)	PRESENT TO BE ABANDONED
(PR)	PRESENT TO BE RELOCATED
(PX)	PRESENT TO BE REMOVED
(R)	RELOCATED

MECHANICAL GENERAL NOTES:

1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. INSTALL PIPING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. PIPE SIZES, VENTING, AND CLEANOUTS AS SHOWN ARE MINIMUM REQUIREMENTS.
3. ROUTE PIPING SYSTEMS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE. MAIN DROPS AND RISES ARE SHOWN, PROVIDE ADDITIONAL DROPS AND RISES AS REQUIRED. INDICATED ELEVATIONS ARE APPROXIMATE. COORDINATE WITH ACTUAL FIELD CONDITIONS.
4. ROUTE PIPING CONCEALED WITHIN INTERIOR WALLS UNLESS INDICATED OTHERWISE.
5. COORDINATE INSTALLATION OF PIPING WITH OTHER PIPING SYSTEMS, DUCTWORK, LIGHTS, AND STRUCTURE.
6. SUPPORT PIPING AND EQUIPMENT FROM TOP CHORD OF JOISTS OR METAL STRUT BEARING ON WALLS. PROVIDE INTERMEDIATE METAL SUPPORTS AS REQUIRED. DO NOT ATTACH TO ROOF DECK FOR SUPPORT.
8. GAS PIPING LOCATED IN RETURN AIR PLENUMS, CONCEALED IN WALLS, OR LOCATED BELOW FLOOR SHALL BE WELDED WITH NO VALVES OR UNIONS.
9. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR EQUIPMENT PIPE SIZES AND TRIM.
10. REFERENCED FINISHED FIRST FLOOR ELEVATION IS 0.0'.
11. ROUTE DUCTWORK CONCEALED ABOVE CEILING UNLESS INDICATED OTHERWISE. MAIN DROPS AND RISES ARE SHOWN. PROVIDE ADDITIONAL DROPS AND RISES AS REQUIRED. INDICATED ELEVATIONS ARE APPROXIMATE. COORDINATE WITH ACTUAL FIELD CONDITIONS.
12. ALL DUCT DIMENSIONS ARE INSIDE FREE AREA. INCREASE OVERALL DUCT SIZE TO ALLOW FOR DUCT LINER WHERE SPECIFIED.
13. COORDINATE INSTALLATION OF DUCTWORK WITH PIPING SYSTEMS, LIGHTS, AND STRUCTURE.
14. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH LIGHTS, CEILING LAYOUT, STRUCTURE, AND ROOF SLOPE.
15. REFER TO EQUIPMENT SCHEDULES FOR FLEXIBLE DUCT SIZES, EQUIPMENT CONNECTIONS, AND MOUNTING HEIGHTS.
16. SUPPORT DUCTWORK AND EQUIPMENT FROM TOP CHORD OF JOISTS OR METAL STRUT BEARING ON WALLS. PROVIDE INTERMEDIATE METAL SUPPORTS AS REQUIRED. DO NOT ATTACH TO ROOF DECK FOR SUPPORT.
19. ALL WORK FROM POINT OF NEW CONNECTION SHALL USE NEW MATERIALS, RE-USE OF REMOVED MATERIALS SHALL NOT BE ALLOWED, UNLESS SPECIFICALLY NOTED.
20. THESE NOTES APPLY TO ALL MECHANICAL DRAWINGS.

LICENSED PROFESSIONAL ENGINEER
BRIAN D. STONE
062-051944
STATE OF ILLINOIS

EXPIRES 11-30-2025

SIGNATURE

04-08-2024
DATE

BRUNER, COOPER & ZUCK, INC.
835 Golden Valley Drive
Bettendorf, IA 52722
563.355.1856

2023181-3

DRAWN BY: DPN	REVISIONS			
CHECKED BY: BDS	LEVEL	BY	DATE	DESCRIPTION
DATE: 4-2024				

Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

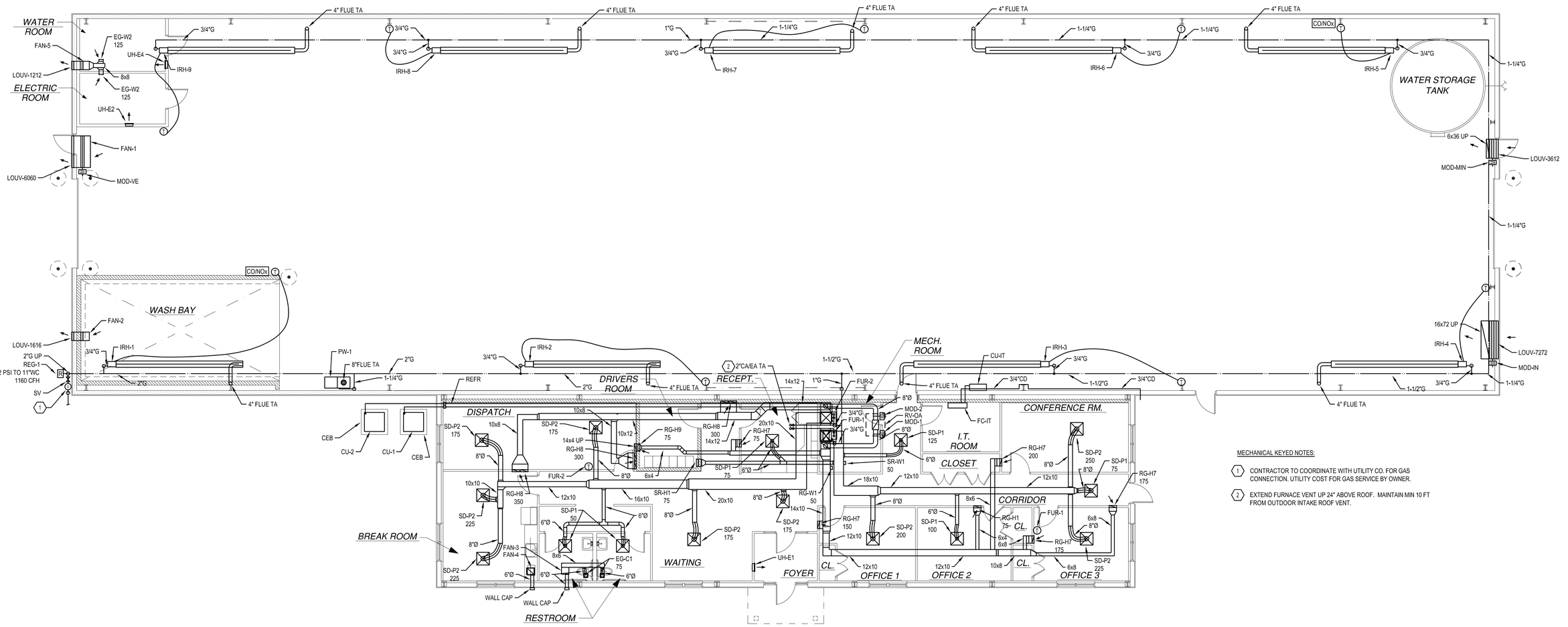
GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

MECHANICAL GENERAL REQUIREMENTS

BID SET

CURRENT AS OF: 04-08-2024	
SCALE: AS NOTED	SHEET M0.0
FILE NO.:2452.00 Y-	OF

Drawing Name: I:\2023\PROJECTS\2023181-3 GRUNDY CO TRANSIT BUS FACILITY\DESIGN\DRAWINGS_MECHANICAL\2023181-3 M0.0.dwg Last Modified: Wednesday, April 10, 2024 3:00:22 PM Plotted On: Wednesday, April 10, 2024 4:00:48 PM by Silas W. Harvey



MECHANICAL KEYED NOTES:

1. CONTRACTOR TO COORDINATE WITH UTILITY CO. FOR GAS CONNECTION. UTILITY COST FOR GAS SERVICE BY OWNER.
2. EXTEND FURNACE VENT UP 24" ABOVE ROOF. MAINTAIN MIN 10 FT FROM OUTDOOR INTAKE ROOF VENT.

GAS REGULATOR (REG) SCHEDULE

NOTES:
1. PROVIDE WITH INTERNAL RELIEF VALVE AND VENT.

MARK	PERFORMANCE			TYPE		PHYSCIAL				UNIT		NOTES
	INLET PRESSURE	OUTLET PRESSURE	CAPACITY (CFH)	STYLE	SERVICE	SPRING RANGE	ORIFICE IN.	BODY SIZE IN.	WEIGHT LBS.	MFR	MODEL	
REG-1	2 PSI	11"WC	1,400	DIRECT	NAT GAS	6" - 14"	1/2	1-1/2	MFR	SENSUS	243-8-1	1

MECHANICAL PLAN

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

NORTH

BRUNER, COOPER & ZUCK, INC.
835 Golden Valley Drive
Bettendorf, IA 52722
563.355.1856

2023181-3

DRAWN BY: DPN	REVISIONS				Chamlin & Associates	PERU MORRIS OTTAWA MENDOTA ILLINOIS	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS	MECHANICAL PLAN	BID SET	CURRENT AS OF: 04-08-2024	
CHECKED BY: BDS	LEVEL	BY	DATE	DESCRIPTION						SCALE: AS NOTED	SHEET M1.1
DATE: 4-2024										FILE NO.:2452.00 Y-	OF

Drawing Name: T:\2023\PROJECTS\2023181-3 GRUNDY CO TRANSIT BUS FACILITY\DESIGN\DRAWINGS_MECHANICAL\2023181-3 M1.1.dwg 4/10/2024 4:46:44 PM
Last Modified: Wednesday, April 10, 2024 4:46:44 PM by Brian D. Stone
Plotted On: Wednesday, April 10, 2024 4:46:04 PM
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FAN COIL (FC) AND CONDENSING UNIT (CU) SCHEDULE

NOTES:
1. SIZE AND CIRCUIT REFRIGERANT PIPING AS RECOMMENDED BY UNIT MANUFACTURER. PROVIDE COMPLETE WITH REFRIGERANT SPECIALTIES AS RECOMMENDED BY UNIT MANUFACTURER.
2. PROVIDE COMPLETE WITH OPERATING AND SAFETY CONTROLS INCLUDING WALL MOUNTED THERMOSTATS - ONE FOR EACH FC.
3. PROVIDE WALL MOUNTING BRACKET FOR REMOTE CONDENSING UNIT.
4. COOLING PERFORMANCE BASED ON 95 DEG F AMBIENT.

MARK	AIRFLOW		HEATING				COOLING						PHYSICAL INDOOR				PHYSICAL OUTDOOR				ELECTRICAL			UNIT			NOTES
	CFM	E.S.P. IN W.C.	OUTPUT @ 47 F	OUTPUT @ 17 F	EAT / LAT DEG F	COP @ 47 F	TOTAL COOLING BTUH	SENSIBLE COOLING BTUH	EAT DB / WB DEG F	LAT DB / WB DEG F	SEER2	EER2	WIDTH IN.	DEPTH IN.	HEIGHT IN.	WEIGHT LBS.	WIDTH IN.	DEPTH IN.	HEIGHT IN.	WEIGHT LBS.	MCA	MOCP	VOLTS / PH	MFR	INDOOR MODEL	OUTDOOR MODEL	
FC-IT / CU-IT	350	0.0	30,000	27,000	65 / 94	3.44	17,200	11,900	80 / 67	56 / 55	21	12.5	36-1/2	9-1/4	12	29	33	13	34-5/8	118	18	20	230 / 1	TRANE	NTXWPH18B112AA	NTXSPB18B112AA	1,2,3,4

FURNACE (FUR) SCHEDULE

NOTES:
1. PROVIDE CASED COOLING COIL AT FURNACE OUTLET.
2. PROVIDE COOLING COIL CONDENSATE DRAIN WITH 2" DEEP WATER SEAL TRAP PIPED TO FLOOR DRAIN.
3. SIZE AND CIRCUIT REFRIGERANT PIPING AS RECOMMENDED BY MANUFACTURER.
4. PROVIDE EXTERNAL 1" THICK FILTER RACK AND WALL OR ROOF TERMINATION KIT AS REQUIRED.

MARK	AIRFLOW				HEATING			COOLING					PHYSICAL							ELECTRICAL			UNIT		NOTES
	CFM	E.S.P. IN W.C.	FAN SPEED RPM	MIN OA CFM	INPUT BTU / HR	OUTPUT BTU / HR	EAT / LAT DEG F	TOTAL COOLING BTU / HR	SENSIBLE COOLING BTU / HR	EAT DB / WB DEG F	LAT DB / WB DEG F	COIL APD IN W.C.	INTAKE SIZE IN.	VENT SIZE IN.	GAS SIZE IN.	LENGTH IN.	DEPTH IN.	HEIGHT IN.	WEIGHT LBS.	MOTOR HP	VOLTS	PH	MFR	MODEL	
FUR-1	1300	0.6	-	250	60,000	58,200	61 / 105	42,000	-	-	-	-	2"	2"	1/2"	17-1/2"	28-3/4"	34	122	3/4	120	1	TRANE	S9X1B060	1, 2, 3, 4
FUR-2	1250	0.6	-	250	60,000	58,200	61 / 105	42,000	-	-	-	-	2"	2"	1/2"	17-1/2"	28-3/4"	34	122	3/4	120	1	TRANE	S9X1B060	1, 2, 3, 4

CONDENSING UNIT (CU) SCHEDULE

NOTES:
1. SIZE AND CIRCUIT REFRIGERANT PIPING WITH TRIM AS RECOMMENDED BY UNIT MANUFACTURER.

MARK	PERFORMANCE					TYPE						ELECTRICAL				PHYSICAL				UNIT		NOTES
	NOMINAL TONS	COOLING BTU/HR	COOL EFF (EER)	COOL EFF (IPLV)	DSN OA DEG F	STYLE	REFR TYPE	REFR CKTS	COMPR QTY	COND FANS QTY	COOLING STAGES	MCA	MOCP	VOLTS	PH	LENGTH IN.	WIDTH IN.	HEIGHT IN.	DRY WEIGHT LBS.	MFR	MODEL	
CU-1	3.5	40,000	11.7	-	95	-	410A	1	1	1	1	20	35	230	1	38-3/4	35	42	212	TRANE	4TTR4042	1
CU-2	3.5	40,000	11.7	-	95	-	410A	1	1	1	1	20	35	230	1	38-3/4	35	42	212	TRANE	4TTR4042	1

ROOF VENT (RV) SCHEDULE

NOTES:
1. PROVIDE WITH 18" TALL INSULATED ROOF CURB TO FIT ROOF SLOPE & PROFILE.

MARK	PERFORMANCE					TYPE				INLET			OUTLET			PHYSICAL					UNIT		NOTES
	CFM	S.P. IN W.C.	NECK AREA SF	FACE AREA SF	MAX FACE FPM	SERVICE	STYLE	MATERIAL	MOUNTING	LENGTH IN.	WIDTH IN.	DIA IN.	LENGTH IN.	WIDTH IN.	DIA IN.	LENGTH IN.	WIDTH IN.	HEIGHT IN.	DIA IN.	WEIGHT LBS.	MFR	MODEL	
RV-1	500	0.044	.85	-	-	INTAKE	GRAVITY	ALUM	ROOF	-	-	12-1/2	-	-	27-3/4	-	-	10-9/16	27-3/4	20	COOK	12 PR	1

MOTOR OPERATED DAMPER (MOD) SCHEDULE

NOTES:
1. PROVIDE DAMPER AND ACTUATOR UNLESS OTHERWISE NOTED.

MARK	AIRFLOW			DAMPER				ACTUATOR		PHYSICAL			UNIT		NOTES
	MAX CFM	MAX S.P. IN W.C.	VELOCITY FPM	SERVICE	TYPE	STYLE	MATERIAL	TYPE	FAIL POSITION	WIDTH IN.	HEIGHT IN.	DEPTH IN.	MFR	MODEL	
MOD-1	250	0.05	625	FUR OA	LOW LEAK	OPPOSED	GALV	2-POSITION	NC	8	8	5	RUSKIN	CD60	1
MOD-2	250	0.05	625	FUR OA	LOW LEAK	OPPOSED	GALV	2-POSITION	NC	8	8	5	RUSKIN	CD60	1
MOD-VE	9000	007	750	VE EXH	LOW LEAK	OPPOSED	GALV	2-POSITION	NC	60	60	5	RUSKIN	CD60	1
MOD-IN	9000	0.05	500	VE IN	LOW LEAK	OPPOSED	GALV	2-POSITION	NC	72	72	5	RUSKIN	CD60	1
MOD-MIN	650	0.05	500	MIN OA	LOW LEAK	OPPOSED	GALV	2-POSITION	NC	36	12	5	RUSKIN	CD60	1

GRILLE, REGISTER, & DIFFUSER SCHEDULE

NOTES:
1. COORDINATE DIFFUSER MOUNTING TYPE, AND LOCATION WITH REFLECTED CEILING PLAN.
2. MOUNT BOTTOM 8" ABOVE FLOOR UNLESS NOTED OTHERWISE.
3. PROVIDE WITH PLASTER FRAME FOR ACCESS WHERE INSTALLED IN HARD CEILINGS.
4. REFER TO DRAWINGS FOR EXACT AIRFLOW FOR EACH DIFFUSER OR GRILLE.

MARK	PERFORMANCE				TYPE				NECK SIZE			OVERALL			UNIT			NOTES
	AIRFLOW CFM (MAX)	S.P. IN W.C.	SOUND NC	THROW FEET	MOUNTING	STYLE	DEFL	SPACING IN.	DIA IN.	WIDTH IN.	HEIGHT IN.	WIDTH IN.	HEIGHT IN.	LENGTH	FINISH / MATERIAL	MFR	MODEL	
SD-P1	125	0.03	12	3.0	LAY-IN	PLAQUE	4-WAY	-	6	-	-	23-3/4	23-3/4	-	WHITE / STEEL	TITUS	OMNI	1,3,4
SD-P2	250	0.06	12	5.0	LAY-IN	PLAQUE	4-WAY	-	8	-	-	23-3/4	23-3/4	-	WHITE / STEEL	TITUS	OMNI	1,3,4
SR-W1	75	0.05	15	8.0	WALL / DUCT	GRILLE	22 DEG	3/4	-	6	6	7-3/4	7-3/4	-	WHITE / STEEL	TITUS	300RL	4
SR-H1	75	-	-	-	WALL / DUCT	GRILLE	45 DEG	1/2	-	14	12	15-3/4	13-3/4	-	WHITE / HD STEEL	TITUS	301RL-HD	2,4
RG-W1	110	0.08	13	-	WALL / DUCT	GRILLE	35 DEG	3/4	-	6	6	7-3/4	7-3/4	-	WHITE / STEEL	TITUS	350RL	2,4
RG-H7	225	0.07	18	-	WALL	GRILLE	38 DEG	1/2	-	14	6	15-/3/4	7-3/4	-	WHITE / HD STEEL	TITUS	33RL	2,4
RG-H8	500	0.07	22	-	WALL	GRILLE	38 DEG	1/2	-	30	6	31-/3/4	7-3/4	-	WHITE / HD STEEL	TITUS	33RL	2,4
RG-H9	75	-	-	-	WALL	GRILLE	38 DEG	1/2	-	14	12	15-3/4	13-3/4	-	WHITE / HD STEEL	TITUS	33RL	2,4
EG-C1	110	0.08	13	-	CEILING	GRILLE	35 DEG	3/4	-	6	6	7-3/4	7-3/4	-	WHITE / ALUM	TITUS	350FL	4
EG-W2	220	0.08	16	-	WALL / DUCT	GRILLE	35 DEG	3/4	-	8	8	9-3/4	9-3/4	-	WHITE / ALUM	TITUS	350FL	4

LOUVER (LOUV) SCHEDULE

NOTES:
1. COORDINATE EXACT LOCATION, ELEVATION, SIZE, WALL CONSTRUCTION, AND MOUNTING REQUIREMENTS.

MARK	PERFORMANCE				TYPE					OVERALL SIZE			UNIT			NOTES
	AIR FLOW CFM (MAX)	S.P. IN W.C.	FREE AREA SF	MAX VELOCITY FPM	SERVICE	STYLE	MOUNTING	BLADE SPACING IN.	FRAME	WIDTH IN.	HEIGHT IN.	DEPTH IN.	FINISH / MATERIAL	MFR	MODEL	
LOUV-7272	9000	-	18.72	480	INTAKE	FIXED	WALL	5-3/32	FLANGE	72	72	4	MILL / ALUM	RUSKIN	ELF375DX	1
LOUV-6060	9000	-	13.50	670	EXHAUST	FIXED	WALL	5-3/32	FLANGE	60	60	4	MILL / ALUM	RUSKIN	ELF375DX	1
LOUV-3612	650	-	3.00	220	INTAKE	FIXED	WALL	5-3/32	FLANGE	36	12	4	MILL / ALUM	RUSKIN	ELF375DX	1
LOUV-1616	650	-	1.78	365	EXHAUST	FIXED	WALL	5-3/32	FLANGE	16	16	4	MILL / ALUM	RUSKIN	ELF375DX	1
LOUV-1212	250	-	-	365	EXHAUST	FIXED	WALL	5-3/32	FLANGE	12	12	4	MILL / ALUM	RUSKIN	ELF375DX	1

CONVECTOR - ELEC (CONV-E) SCHEDULE

NOTES:
1. PROVIDE UNIT WITH INTEGRAL THERMOSTAT & DISCONNECT SWITCH.
2. PROVIDE WITH LEFT & RIGHT ENDCAPS.

MARK	PERFORMANCE		TYPE						ELECTRICAL			PHYSICAL				UNIT		NOTES
	OUTPUT BTUH	CAPACITY WATT/FT	MOUNTING	INLET LOC	INLET TYPE	OUTLET LOC	OUTLET TYPE	CABINET	KW	VOLTS	PH	LENGTH IN.	WIDTH IN.	HEIGHT IN.	BOTTOM HEIGHT AF	MFR	MODEL	
CONV-E1	4,262	250	WALL	BOT	-	TOP	-	-	1.25	120	1	60	3	6-3/4	2	QMARK	QMKC2515W	1,2
CONV-E2	4,262	250	WALL	BOT	-	TOP	-	-	1.25	120	1	60	3	6-3/4	2	QMARK	QMKC2515W	1,2

UNIT HEATER ELECTRIC (UH-E) SCHEDULE

NOTES:
1. PROVIDE WITH INTEGRAL THERMOSTAT & DISCONNECT SWITCH.

MARK	PERFORMANCE				TYPE				ELECTRICAL			PHYSICAL				UNIT		NOTES
	CFM	E.S.P. IN W.C.	OUTPUT BTUH	EAT / LAT DEG F	STYLE	MOUNTING	INLET LOC	OUTLET LOC	KW	VOLTS	PH	WIDTH IN.	HEIGHT IN.	DEPTH IN.	WEIGHT LBS.	MFR	MODEL	
UH-E1	100	0.0	10,236	50 / 144	ARCH	WALL	FR BOT	FR TOP	3	240	1	15-3/4	19-5/16	5-1/8	25	QMARK	AWH4407F	1
UH-E2	100	0.0	6,824	50 / 112	ARCH	WALL	FR BOT	FR TOP	2	240	1	15-3/4	19-5/16	5-1/8	25	QMARK	AWH4404F	1
UH-E4	100	0.0	6,824	50 / 112	ARCH	WALL	FR BOT	FR TOP	2	240	1	15-3/4	19-5/16	5-1/8	25	QMARK	AWH4404F	1

FAN (FAN) SCHEDULE

1. PROVIDE SPEED CONTROL AT FAN FOR INITIAL AIR BALANCING.
2. PROVIDE WITH DISCONNECT SWITCH.
3. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

MARK	PERFORMANCE					TYPE		INLET			OUTLET			ELECTRICAL			PHYSICAL					UNIT		NOTES
	CFM	E.S.P. IN W.C.	RPM	SONES	FEI	STYLE	MOUNTING	DIA IN.	WIDTH IN.	HEIGHT IN.	WIDTH IN.	HEIGHT IN.	DIA IN.	MOTOR HP	VOLTS	PH	LENGTH IN.	WIDTH IN.	HEIGHT IN.	DIA IN.	WEIGHT LBS.	MFR	MODEL	
FAN-1	8900	0.375	803	30	1.11	PROP	WALL	32	-	-	-	-	32	2	208	3	26-5/16	42-3/16	42-3/16	36	394	COOK	36 A9B	1, 2, 3
FAN-2	640	0.375	877	2.5	MFR	CENT	SUSPEND	-	27	16-1/4	20	6	-	185W	115	1	16-1/4	27	14-11/16	-	59	COOK	GC-862	1, 2, 3
FAN-3	150	0.375	878	3.0	MFR	CENT	DUCT	-	12	14	-	-	6	68 W	115	1	12	15-5/8	8-3/8	-	14	COOK	GN-186	1, 2, 3
FAN-4	100	0.375	971	2.0	MFR	CENT	CEILING	-	15-1/2	13-3/4	-	-	6	40W	115	1	15-1/2	12	8-3/8	-	15	COOK	GC-148	1, 2, 3
FAN-5	250	0.375	1433	4.0	MFR	CENT	DUCT	-	16-15/16	11-15/16	8	6	-	84W	115	1	12	17	12	-	15	COOK	GN-166	1, 2, 3

INFRARED RADIANT HEATER (IRH) SCHEDULE

NOTES:
1. INSTALL HEATER PER MANUFACTURERS INSTALLATION INSTRUCTIONS. MAINTAIN MINIMUM CLEARANCE FROM COMBUSTIBLE MATERIALS AS RECOMMENDED BY MANUFACTURER.
2. HARSH ENVIRONMENT USE WITH SEALED COMPONENTS AND STAINLESS STEEL CONSTRUCTION FOR CORROSION RESISTANCE.
3. PROVIDE MOISTURE PROOF NEMA 4X WALL MOUNTED 24V THERMOSTAT WITH RADIANT HEAT GUARD.
4. PROVIDE WITH 4" ROOF VENT CAP.

MARK	INPUT BTU / HR	TYPE					CLEARANCES					PHYSICAL							ELECTRICAL			UNIT		NOTES
		CONFIG	DEFL ORIENT	VENT STYLE	FUEL	FUEL PRESS IN WC	TOP IN.	BACK IN.	FRONT IN.	BELOW IN.	MOUNTING HEIGHT AF	TUBE LENGTH	TUBE DIA IN.	OVERALL LENGTH	INTAKE SIZE IN.	FLUE SIZE IN.	GAS CONN. IN.	DRY WEIGHT LBS.	MCA	VOLTS	PH	MFR	MODEL	
IRH-1	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1, 2, 3, 4
IRH-2	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-3	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-4	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-5	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-6	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-7	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-8	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4
IRH-9	75,000	STRAIGHT	45 DEG	POWER	NAT GAS	5 - 14	6	12	52	60	16'-0"	20'-0"	4	21'-2"	4	4	1/2	150	2.0	120	1	SPACE-RAY	PTS-75	1,3, 4

BRUNER, COOPER & ZUCK, INC.
835 Golden Valley Drive
Bettendorf, IA 52722
563.355.1856

2023181-3

DRAWN BY: DPN
CHECKED BY: BDS
DATE: 4-2024

REVISIONS			
LEVEL	BY	DATE	DESCRIPTION

Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

MECHANICAL SCHEDULES

BID SET

CURRENT AS OF: 04-08-2024
SCALE: AS NOTED
SHEET M6.1
FILE NO.:2452.00 Y-
OF

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
PLUMBING	
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER - CIRCULATING PIPING
	VENT PIPING
	WASTE PIPING - ABOVE GRADE
	WASTE PIPING - BELOW GRADE
	GAS PIPING
	DEMOLITION
H	WALL HYDRANT
	SHOWER
	FLOOR DRAIN - ROUND
	FLOOR DRAIN - SQUARE
	CLEANOUT - ROUND
	CLEANOUT - SQUARE
	ROOF DRAIN
G	GAS METER
W	WATER METER
BFP	BACKFLOW PREVENTER
R	REGULATOR
	PIPE FITTING
	UP / DOWN
	SHUTOFF VALVE
	THROTTLING VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER
PR	RELIEF VALVE
	REDUCER / INCREASER
	DIRECTION OF FLOW
	FLEXIBLE CONNECTION
	UNION
	PUMP
T	TEMPERATURE SENSOR
P	PRESSURE SENSOR
F	FLOW SENSOR
	THERMOMETER
	PRESSURE GAUGE
	BREAK
	CAP
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER

PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION
~	APPROXIMATE
A/E	ARCHITECT / ENGINEER
AC	ABOVE CEILING
AD	AREA DRAIN
AF	ABOVE FLOOR
AP	ACCESS PANEL
BF	BELOW FLOOR
BFP	BACK FLOW PREVENTER
BTU	BRITISH THERMAL UNITS
BV	BALANCING VALVE
CA	COMPRESSED AIR
CB	CATCH BASIN
CEB	CONCRETE EQUIPMENT BASE
CI	CAST IRON
CL	CEILING
CO	CLEANOUT
CONTR	CONTRACTOR
CV	CHECK VALVE
CW	COLD WATER
D	DISPOSAL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DS	DOWNSPOUT
DSC	DOWNSPOUT CONNECTOR
DSO	DOWNSPOUT OUTLET
DV	DRAIN VALVE
DW	DISH WASHER
EF	EMERGENCY FIXTURE
EWC	ELECTRIC WATER COOLER
FA	FROM ABOVE
FB	FROM BELOW
FD	FLOOR DRAIN
G	GAS
GEN	GENERAL
GPM	GALLONS PER MINUTE
GO	GAS OUTLET
H	HYDRANT
HTX	HEAT EXCHANGER
HP	HORSEPOWER
HW	HOT WATER
HWC	HOT WATER - CIRCULATING
INV	INVERT ELEVATION
IW	IN WALL
JS	JANITOR SINK
L	LAVATORY
MB	MOP BASIN
MBH	THOUSANDS BTU
MH	MANHOLE
MIN	MINIMUM
NC	NEW CONNECTION
OB	OUTLET BOX
OI	OIL INTERCEPTOR
P	PUMP
PD	PUMP DISCHARGE
Ø	DIAMETER
PLB	PLUMBING
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
SAN	SANITARY
SH	SHOWER
SHT	SHEET
SK	SINK
SS	STAINLESS STEEL
SS	SERVICE SINK
ST	STORM
SV	SHUTOFF VALVE
TA	TO ABOVE
TB	TO BELOW
TMV	THERMOSTATIC MIXING VALVE
TV	THROTTLING VALVE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
V	VOLTS
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
(P)	PRESENT
(PA)	PRESENT TO BE ABANDONED
(PR)	PRESENT TO BE RELOCATED
(PX)	PRESENT TO BE REMOVED
(R)	RELOCATED

PLUMBING DEMOLITION NOTES:

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR THE MECHANICAL DEMOLITION WORK REQUIRED BY THE NEW WORK AND THE GENERAL DEMOLITION.
2. ALL SERVICES, WHETHER SHOWN OR NOT, WHICH ARE TO REMAIN, SHALL BE MAINTAINED BY THE CONTRACTOR AND SERVICE SHALL BE REROUTED AS REQUIRED TO MAINTAIN THEM.
3. REFER TO GENERAL CONSTRUCTION DRAWINGS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. WHERE AN ITEM IS SHOWN TO BE REMOVED, REMOVE ALL ASSOCIATED PIPING, AND COMPONENTS BACK TO LAST ACTIVE LOCATION AND CAP, UNLESS OTHERWISE NOTED.
5. WHERE AN ITEM IS SHOWN TO BE REMOVED, PATCH REMAINING OPENINGS TO MATCH SURROUNDING MATERIALS AND FINISHES, UNLESS OTHERWISE NOTED.
6. THESE NOTES APPLY TO ALL PLUMBING DRAWINGS.

PLUMBING GENERAL NOTES:

1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND DETAILS.
2. INSTALL PIPING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. PIPE SIZES, VENTING, AND CLEANOUTS AS SHOWN ARE MINIMUM REQUIREMENTS.
3. ROUTE PIPING SYSTEMS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE. MAIN DROPS AND RISES ARE SHOWN, PROVIDE ADDITIONAL DROPS AND RISES AS REQUIRED. INDICATED ELEVATIONS ARE APPROXIMATE. COORDINATE WITH ACTUAL FIELD CONDITIONS.
4. ROUTE PIPING CONCEALED WITHIN INTERIOR WALLS UNLESS INDICATED OTHERWISE.
5. COORDINATE INSTALLATION OF PIPING WITH OTHER PIPING SYSTEMS, DUCTWORK, LIGHTS, AND STRUCTURE.
6. SUPPORT PIPING AND EQUIPMENT FROM TOP CHORD OF JOISTS OR METAL STRUT BEARING ON WALLS. PROVIDE INTERMEDIATE METAL SUPPORTS AS REQUIRED. DO NOT ATTACH TO ROOF DECK FOR SUPPORT.
7. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR EQUIPMENT PIPE SIZES AND TRIM.
8. REFERENCED FINISHED FIRST FLOOR ELEVATION IS 0.0'.
9. THESE NOTES APPLY TO ALL PLUMBING DRAWINGS.

LICENSED PROFESSIONAL ENGINEER
BRIAN D. STONE
062-051944
STATE OF ILLINOIS

EXPIRES 11-30-2025

SIGNATURE

04-08-2024
DATE

BRUNER, COOPER & ZUCK, INC.
835 Golden Valley Drive
Bettendorf, IA 52722
563.355.1856

2023181-3

DRAWN BY: DPN
CHECKED BY: BDS
DATE: 4-2024

REVISIONS			
LEVEL	BY	DATE	DESCRIPTION

Chamlin & Associates

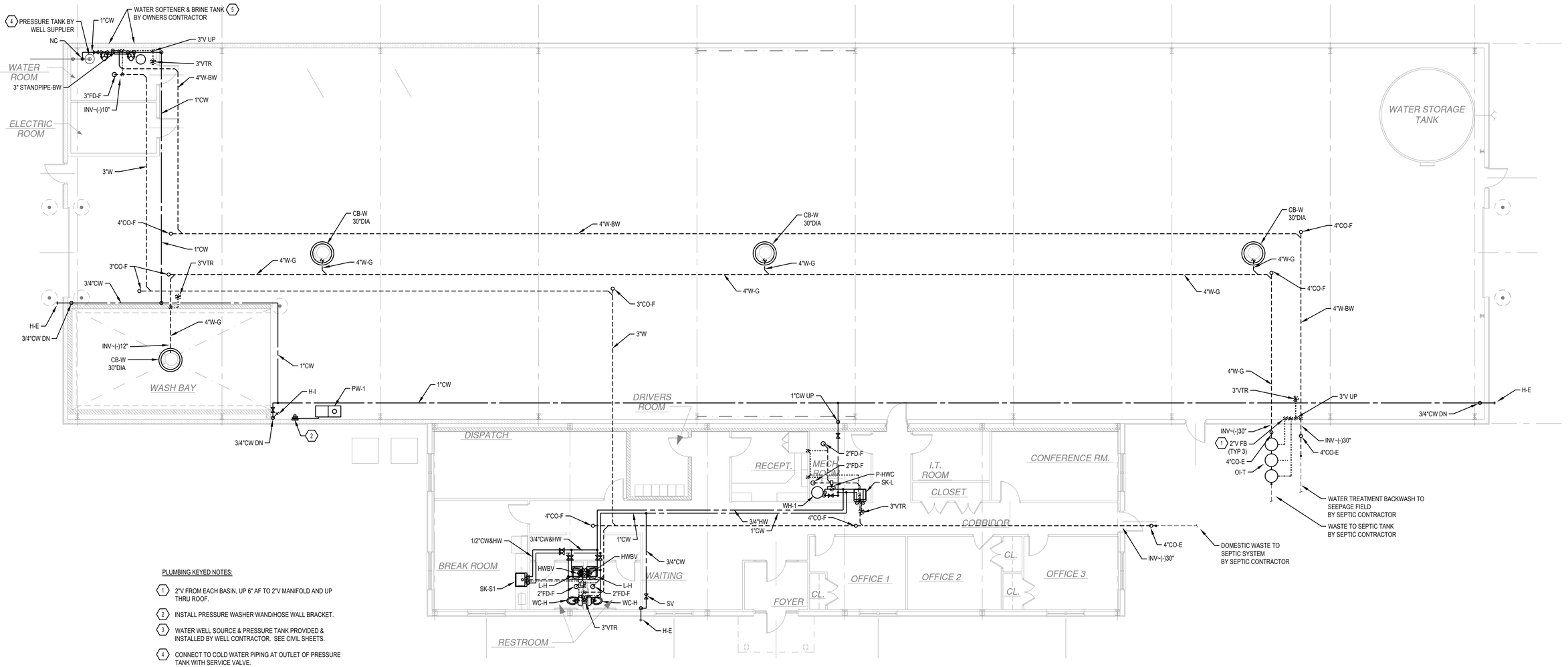
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

PLUMBING GENERAL REQUIREMENTS

BID SET

CURRENT AS OF: 04-08-2024
SCALE: AS NOTED
SHEET P0.0
FILE NO.:2452.00 Y-
OF



PLUMBING KEYED NOTES:

1. 2"V FROM EACH BASIN, UP 6" AF TO 2"V MANIFOLD AND UP THRU ROOF.
2. INSTALL PRESSURE WASHER WAND/HOSE WALL BRACKET.
3. WATER WELL SOURCE & PRESSURE TANK PROVIDED & INSTALLED BY WELL CONTRACTOR. SEE CIVIL SHEETS.
4. CONNECT TO COLD WATER PIPING AT OUTLET OF PRESSURE TANK WITH SERVICE VALVE.
5. WATER FILTRATION & WATER SOFTENER TO BE PROVIDED AND INSTALLED BY OWNERS SERVICE CONTRACTOR. PROVIDE VALVE MANIFOLD WITH SHUTOFF VALVES FOR INLET, OUTLET, & MANUAL BYPASS FOR EACH PIECE OF EQUIPMENT.

PLUMBING PLAN

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

NORTH

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CHECKED BY: BDS	LEVEL	BY	DATE	DESCRIPTION				SCALE: AS NOTED	SHEET P1.1
DATE: 4-2024								FILE NO.:2452.00 Y-	OF

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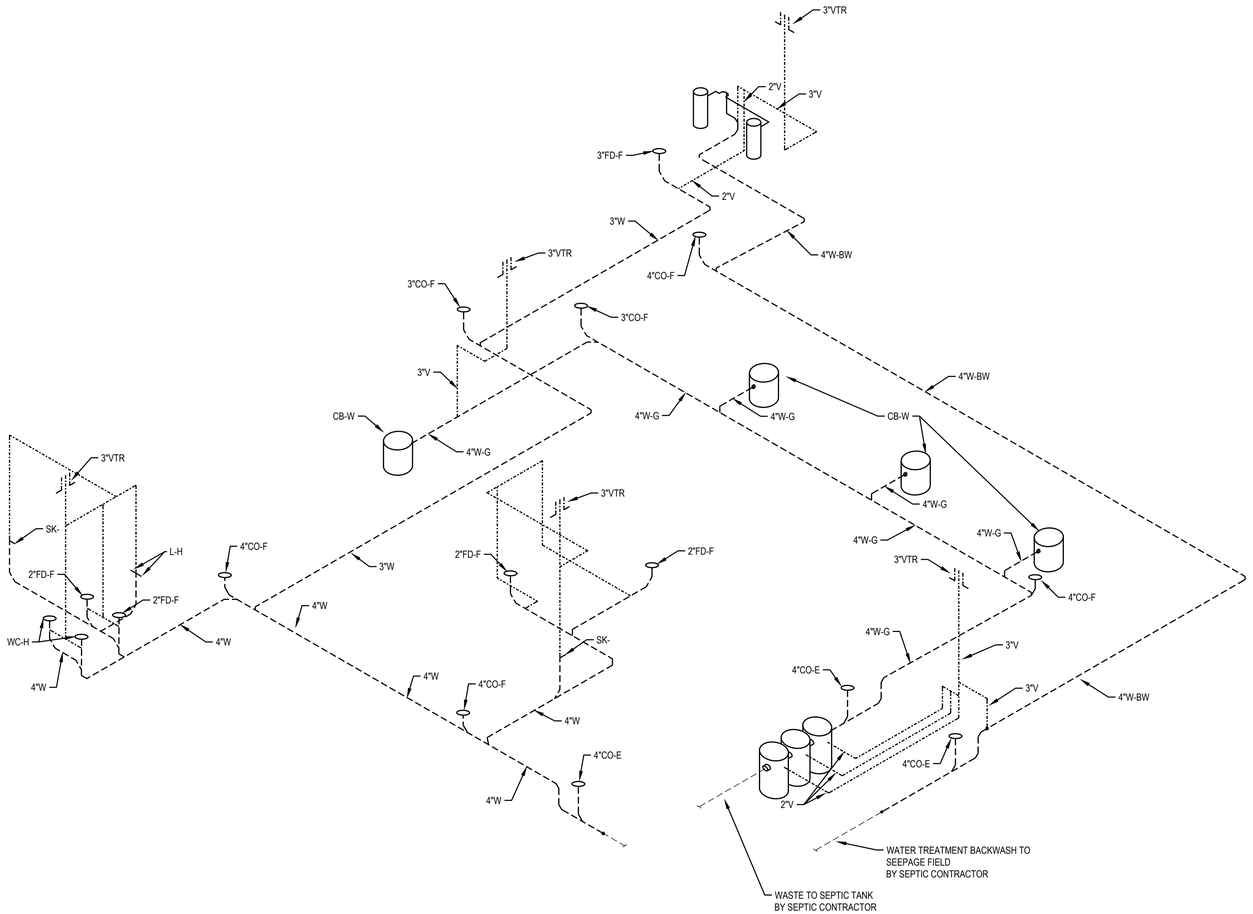
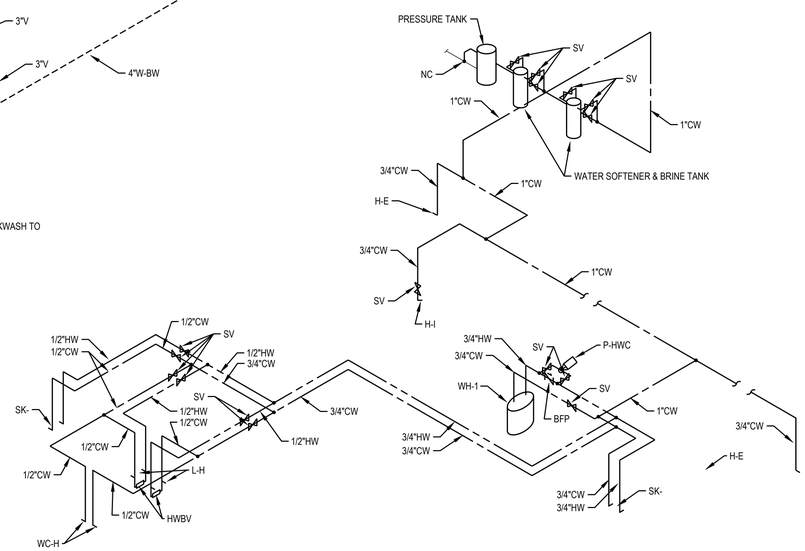


WASTE & VENT ISOMETRIC

SCALE: NONE



PIPING ISOMETRIC

SCALE: NONE

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DATE: 4-2024				

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PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

PLUMBING ISOMETRICS & DETAILS

BID SET

CURRENT AS OF: 04-08-2024	
SCALE: AS NOTED	SHEET P5.1
FILE NO.:2452.00 Y-	OF

PLUMBING FIXTURE SCHEDULE

CLEANOUT (CO-E) EXTERIOR EXPANSION JOINT	1. CAST IRON BODY WITH ADJUSTABLE HOUSING AND TAPERED THREAD OR GASKET SEAL COUNTERSUNK BRONZE PLUG. OUTLET TYPE AS REQUIRED BY PIPE. (EQUAL TO WADE 6000 SERIES, WATTS CO-200-R, ZURN ZN-1400). PROVIDE EXPANSION JOINT IN PIPING (EQUAL TO WADE 3900, WATTS CO-200-R, ZURN ZRB-190). 2. TOP: CAST IRON SCORIATED TOP WITH LOADING CLASSIFICATIONS: LIGHT DUTY - EARTH OR GRASS, FOOT TRAFFIC AREAS HEAVY DUTY - VEHICLE-TRAFFIC SERVICE AREAS 3. SIZE AND LOCATE AS REQUIRED BY CODE. PROVIDE PIPE ADAPTER FITTINGS AS REQUIRED. 4. MOUNT TOP OF CLEANOUT FLUSH WITH GRADE AND EXPANSION JOINT IN PIPING BELOW GRADE. CAST CLEANOUT FLUSH WITH SURROUNDING GRADE IN 12"x12"x4" THICK CONCRETE SLAB.
CLEANOUT (CO-F) FLOOR ROUND	1. BODY: CAST IRON BODY WITH THREADED ADJUSTABLE HOUSING AND TAPERED THREAD OR GASKET SEAL COUNTERSUNK BRONZE PLUG. OUTLET TYPE AS REQUIRED BY PIPE MATERIAL (EQUAL TO WADE 6000 SERIES, WATTS CO-200-R, ZURN ZN-1400). 2. TOP: POLISHED NICKEL BRONZE SCORIATED TOP FOR FINISHED AREAS; CAST IRON SCORIATED TOP FOR UNFINISHED AREAS; OR AS INDICATED ON DRAWINGS FOR SPECIAL APPLICATIONS. 3. SIZE AND LOCATE AS REQUIRED BY CODE. PROVIDE PIPE ADAPTER FITTINGS AS REQUIRED. 4. MOUNT TOP FLUSH WITH FLOOR AS DIRECTED BY GENERAL CONTRACTOR.
CLEANOUT (CO-W) WALL	1. PLUG: TAPERED THREAD (OR GASKET SEAL) RAISED HEAD BRONZE PLUG DRILLED AND TAPPED FOR COVER SCREW. 2. COVER: SMOOTH STAINLESS STEEL ACCESS COVER (EQUAL TO WADE 8480R, WATTS CO-480-RD, ZURN ZS-1469). 3. SIZE AS REQUIRED BY CODE. PROVIDE PIPE ADAPTER FITTINGS AS REQUIRED. 4. MOUNT ACCESS COVER FLUSH WITH WALL AS DIRECTED BY GENERAL CONTRACTOR.
CLEANOUT (CO-I) INTERIOR	1. PLUG: TAPERED THREAD (OR GASKET SEAL) RAISED HEAD PLUG. MATERIAL SIMILAR TO PIPE MATERIAL. 2. SIZE AS REQUIRED BY CODE. PROVIDE PIPE ADAPTER FITTINGS AS REQUIRED.
FLOOR DRAIN (FD-F) FINISHED	1. CAST IRON FLOOR DRAIN WITH FLANGE, INTEGRAL CLAMPING COLLAR, ADJUSTABLE SATIN NICKEL BRONZE STRAINER (EQUAL TO WADE W-1100-STD, WATTS FD-100-A, ZURN ZN-415B). 2. 2" DIA PIPE / 5" DIA TOP / 14 GPM FLOW RATE. 3" DIA PIPE / 6" DIA TOP / 27 GPM FLOW RATE 3. PROVIDE WITH DEEP SEAL P-TRAP. 4. MOUNT FLUSH WITH FLOOR AS DIRECTED BY GENERAL CONTRACTOR.
HYDRANT (H-E) EXTERIOR WALL	1. ALL BRASS CONSTRUCTION, FREEZE PROOF TYPE, INTEGRAL SELF-DRAINING VACUUM BREAKER, BRASS CASING, LENGTH AS REQUIRED FOR WALL CONSTRUCTION, 3/4" HOSE OUTLET, 3/4" INLET, REMOVABLE HANDLE OPERATED (EQUAL TO WOODFORD MODEL 65 SERIES). 2. MOUNT CENTER 24" ABOVE FINISHED GRADE. COORDINATE EXACT MOUNTING REQUIREMENTS WITH GENERAL CONTRACTOR. 3. PROVIDE MINIMUM PIPE CONNECTIONS TO H INCLUDING: 3/4" CW.
HYDRANT (H-I) INTERIOR WALL	1. ALL BRASS CONSTRUCTION WALL FAUCET WITH ANTI-SIPHON VACUUM BREAKER, ROUGH BRASS FINISH, AND POLYCARBONATE WHEEL HANDLE (EQUAL TO WOODFORD MODEL 24). 2. MOUNT CENTER 36" ABOVE FINISHED FLOOR. 3. PROVIDE MINIMUM PIPE CONNECTIONS TO H INCLUDING: 3/4" CW.
HOT WATER BYPASS VALVE (HWBPV-A)	1. UNDER SINK MOUNTED THERMOSTATIC VALVE TO ALLOW FLOW FROM HW TO CW LINE WHEN HW IS BELOW 104 DEG F. CHECK VALVE PREVENTS REVERSE FLOW. EQUAL TO TACO HLV-1, GRUNDFOS 595926, WATTS 367010.
LAVATORY (L-H) WALL MOUNTED GRID DRAIN ACCESSIBLE	1. LAVATORY: WALL HUNG, 20" x 18" MINIMUM, VITREOUS CHINA LAVATORY WITH MINIMUM 4" HIGH BACK, DRILLINGS ON 4" CENTERS, RECTANGULAR BASIN WITH SPLASH LIP AND OVERFLOW (EQUAL TO KOHLER GREENWICH K-2032). 2. TRIM: PROVIDE CAST BRASS, CHROME-PLATED, 2-HOLE, 4" CENTERS, DECK MOUNTED, INDIVIDUAL CHROMED METAL LEVER HANDLES, QUARTER TURN CERAMIC DISC VALVES, AND VANDAL RESISTANT 0.5 GPM SPRAY (EQUAL TO KOHLER K-7404-KE-4). PROVIDE WITH LOOSE KEY SUPPLIES AND STOPS. PROVIDE THERMOSTATIC MIXING VALVE (EQUAL TO LEONARD MODEL 170-LF) SET AT 110 DEG F. OFFSET WASTE WITH STRAINER (EQUAL TO KOHLER K-7131-A). INSULATE EXPOSED WASTE, CW AND HW PIPING WITH A PREMOLDED, ANTIMICROBIAL VINYL COVERED, PREINSULATED, WHITE FINISH, UNDERSINK PROTECTIVE PIPE COVER (EQUAL TO LAV GUARD BY TRUEBRO). 3. TRAP: CHROME-PLATED, ADJUSTABLE CAST BRASS P-TRAPS, SWIVEL ELL, IPS OUTLET, 1-1/4" INLET, 1-1/4" OUTLET, GROUND SWIVEL JOINT, AND CLEANOUT PLUG (EQUAL TO KOHLER K-8998). 4. INSTALL LAVATORY, TRIM, AND TRAP PER ADA GUIDELINES. MOUNT TOP OF RIM 33" TO 34" ABOVE FINISHED FLOOR. COORDINATE EXACT MOUNTING REQUIREMENTS WITH GENERAL CONTRACTOR. PROVIDE CHAIR CARRIER. 5. PROVIDE MINIMUM PIPE CONNECTIONS TO LAV INCLUDING: 1-1/2" W (2" W UNDERGROUND), 1-1/2" V, 1/2" CW, AND 1/2" HW. PIPE MIXING VALVE BELOW LAVATORY TO SERVE HW CONNECTION.
SINK (SK-L) LAUNDRY	1. SINK: 23" x 21-1/2" x 13-7/16" DEEP, WHITE MOLDED STONE, FLOOR MOUNTED LAUNDRY TUB (EQUAL TO FIAT FL-1). 2. TRIM: CHROME-PLATED SWING SPOUT FAUCET, LEVER HANDLES, HOSE END WITH VACUUM BREAKER, 7-3/4" HEIGHT, 6-1/4" REACH, 2 HOLE, 4" CENTERS, AND 1/2" INLETS (EQUAL TO CHICAGO FAUCET 526-E2E27-CP). PROVIDE DRAIN WITH REMOVABLE 12" OVER-FLOW PIPE (EQUAL TO FIAT A-2). 3. PROVIDE WITH P-TRAP. 4. MOUNT ON FLOOR AS DIRECTED BY GENERAL CONTRACTOR. 5. PROVIDE MINIMUM PIPE CONNECTIONS TO SK INCLUDING: 2" W, 1-1/2" V, 3/4" CW AND 3/4" HW.

PLUMBING FIXTURE SCHEDULE

SINK (SK-HS1) SINGLE BOWL SIDE SPRAY ACCESSIBLE	1. BOWL: 22" x 19-1/2" OVERALL, 18 GAUGE, TYPE 304 STAINLESS STEEL SELF-RIMMING, SINGLE COMPARTMENT SINK WITH 3-HOLE PUNCHING, BOWL 18" x 14" x 6-1/2" (EQUAL TO ELKAY LRAD221965). 2. CHROME PLATED FAUCET WITH SWING GOOSENECK SPOUT, 12-1/8" HEIGHT, 8" REACH, 8" FAUCET CENTERS, INDIVIDUAL CHROMED METAL WING HANDLES, 1.5 GPM AERATOR, AND SIDE SPRAY (EQUAL TO ELKAY LKD-2433C). PROVIDE REMOVABLE SINK STRAINER (EQUAL TO ELKAY LK-35). PROVIDE WITH LOOSE KEY SUPPLIES AND STOPS. 3. TRAP: CHROME-PLATED, ADJUSTABLE CAST BRASS P-TRAP, SWIVEL ELL, IPS OUTLET, GROUND SWIVEL JOINT, AND CLEANOUT PLUG. 4. INSTALL SINK, TRIM, AND TRAP PER ADA GUIDELINES. MOUNT IN COUNTERTOP AS DIRECTED BY GENERAL CONTRACTOR. 5. PROVIDE MINIMUM PIPE CONNECTIONS TO SK INCLUDING: 1-1/2" W (2" W UNDERGROUND), 1-1/2" V, 1/2" CW, AND 1/2" HW.
TRIPLE BASIN INTERCEPTOR (OI-T) TRIPLE BASIN FIBERGLASS STEEL COVER	1. TRIPLE FIBERGLASS BASIN INTERCEPTOR CONSISTING OF 3 BASINS, 24" DIAMETER BY 42" TALL WITH INVERT 30" ABOVE BOTTOM OF TANK AND MINIMUM TOTAL HOLDING CAPACITY OF 120 GALLONS. EACH BASIN WITH 2" VENT, GAS-TIGHT STEEL TRAFFIC RATED COVER, 18" WATER SEAL TRAP AND 30" DEPTH BELOW INVERT (EQUAL TO AK INDUSTRIES, TB-24X042 TRIPLE BASIN). 2. INSTALL FLUSH WITH SURROUNDING SURFACES AS DIRECTED BY GENERAL CONTRACTOR. PROVIDE CAST IRON EXTENSIONS TO MEET GRADE AS NEEDED. INSTALLATION TO COMPLY WITH ILLINOIS PLUMBING CODE. 3. PROVIDE MINIMUM PIPE CONNECTIONS TO OI INCLUDING: 4" W INLET, 4" W OUTLET, AND (3) 2"V.
THERMOSTATIC MIXING VALVE (TMV-A) SINGLE UNIT IN-LINE POINT OF USE	1. SINGLE THERMOSTATIC POINT OF USE MIXING VALVE, SOLID BIMETAL THERMOSTAT DIRECTLY LINKED TO VALVE PORTING TO CONTROL THE INTAKE OF HOT AND COLD WATER AND COMPENSATE FOR SUPPLY TEMPERATURE OR PRESSURE FLUCTUATIONS, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, CHECKVALVES AT 1/2" INLETS, ROUGH BRASS FINISH, SIZED FOR A MINIMUM FLOW OF 0.25 GPM AND A MAXIMUM FLOW OF 3.0 GPM AT A 20 PSIG SYSTEM PRESSURE DROP (EQUAL TO LEONARD 170-LF). 2. MOUNT TMV IN HOT AND COLD WATER PIPING SERVING OUTLET. 3. SET ADJUSTABLE LIMIT STOP AT 110 DEG F FOR LAVATORIES, AND 120 DEG F FOR GENERAL USE. 4. PROVIDE MINIMUM PIPE CONNECTIONS TO TMV INCLUDING: 1/2" CW, 1/2" HW, AND 1/2" TW.
WATER CLOSET (WC-H) FLOOR MOUNTED FLOOR OUTLET GRAVITY TANK ACCESSIBLE	1. BOWL: 16-1/2" HIGH, FLOOR MOUNTED, FLOOR OUTLET, VITREOUS CHINA, CLOSE COUPLED CLOSET COMBINATION WITH ELONGATED RIM, TANK, WATER SAVER TRIM, 1.6 GALLON, ANTI-SIPHON FLAPPER TYPE FLUSH VALVE, AND CHINA BOLT CAPS. FLUSH CONTROL ON WIDE SIDE OF STALL. (EQUAL TO KOHLER HIGHLINE K-3979). 2. SEAT: SOLID WHITE ANTIMICROBIAL PLASTIC, ELONGATED OPEN FRONT, EXTENDED BACK, WITHOUT COVER, COMPLETE WITH SELF-SUSTAINING CHECK HINGE (EQUAL TO KOHLER K-4670-SA). 3. INSTALL WATER CLOSET, TRIM, AND SEAT PER ADA GUIDELINES. 4. PROVIDE MINIMUM PIPE CONNECTIONS TO WC INCLUDING: 4" W, 2" V, AND 1/2" CW.
WATER HAMMER ARRESTORS (WHA)	1. PERMANENTLY SEALED PRECHARGED COMPRESSION CHAMBER, SEPARATED FROM WATER WITH STAINLESS STEEL BELLOWS. STAINLESS STEEL CASING WITH THREADED CONNECTION. 2. SIZED AND LOCATED IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201. 3. PDI RATING "A": 1-11 FIXTURE UNITS, 3/4" CONNECTION. PDI RATING "B": 12-32 FIXTURE UNITS, 1" CONNECTION. PDI RATING "C": 33-60 FIXTURE UNITS, 1" CONNECTION. PDI RATING "D": 61-113 FIXTURE UNITS, 1" CONNECTION 4. PROVIDE MINIMUM PIPE CONNECTION TO WHA INCLUDING: 3/4" TO 1" CW, AND 3/4" TO 1" HW.

WATER HEATER - ELECTRIC (WH) SCHEDULE

NOTES:
1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
2. PROVIDE EXPANSION TANK ON COLD WATER INLET DOWNSTREAM OF CHECK VALVE AND SHUT-OFF VALVE EQUAL TO AMTROL

MARK	PERFORMANCE				TYPE					ELECTRICAL			PHYSICAL				UNIT		NOTES
	STOR GAL	RECOVERY GPH	TEMP RISE DEG F	DSN TEMP DEG F	FUEL	INPUT BTU/HR	# OF ELEMENTS	ELEMENT EA. KW	ELEMENT TOT.KW	KW	VOLTS	PH	WIDTH IN.	HEIGHT IN.	DEPTH IN.	WEIGHT LBS.	MFR	MODEL	
WH-1	20	10	80	140	ELEC	-	1	2	2	2	240	1	21-3/4"DIA	22-1/4	21-3/4"DIA	35	AO SMITH	DEL-20	1, 2

PUMP (P) SCHEDULE

NOTES:
1. PROVIDE PUMP WITH 120V CORD & PLUG AND 24 HR TIME CLOCK.
2. PUMP OPERATES VIA FLOW SWITCH WHEN HOT WATER IS DRAWN FROM WATER HEATER. HOT WATER BYPASS VALVES LOCATED ELSEWHERE IN WATER SYSTEM.
3. PUMP OPERATES VIA TIMECLOCK TO OPERATE 15 MINUTES PER HOUR DURING OCCUPIED PERIODS. SET TIME CLOCK TO CYCLE PUMP DURING OCCUPIED PERIODS.

MARK	PERFORMANCE						TYPE			ELECTRICAL				PHYSICAL					UNIT		NOTES
	FLOW GPM	HEAD FT	MAX HEAD FT	SPEED RPM	IMPELLER DIA IN.	EFF. %	STYLE	SERVICE	MOUNTING	BHP	HP	VOLTS	PH	LENGTH IN.	WIDTH IN.	HEIGHT IN.	INLET IN.	OUTLET IN.	MFR	MODEL	
P-HWC	1	9	STD	3250	STD	STD	CENTRIFUGAL	HW	PIPE	STD	1/40	120	1	3.5	8	7.5	0.75	0.75	TACO	HOT LINK	1, 2, 3
P-CD	0.33	15	20	MFR	MFR	MFR	PKG	DRAIN	BASIN	MFR	1/30	120	1	10	5	6.5	OPNG	3/8	LITTLE GIANT	VCMA20-ULS	-

PRESSURE WASHER (PW) SCHEDULE

NOTES:
1. PROVIDE WITH PRESSURE WASHER WAND, NOZZLES, AND 50 FEET OF HIGH PRESSURE HOSE, DETERGENT TANK AND MACHINE STAND.
2. INSTALL WAND/HOSE HOLDER AS NOTED ON THE PLUMBING PLAN.
3. PROVIDE HIGH PRESSURE DISTRIBUTION BLOCK WITH 3 THREADED CONNECTIONS.
4. PROVIDE WITH GARDEN HOSE TO CONNECT TO NEARBY HOSE BIBB.
5. DESIGN GAS PRESSURE 11 IN.W.C.

MARK	PERFORMANCE			TYPE					ELECTRICAL				PHYSICAL							UNIT		NOTES
	GPM	PSI	MOTOR RPM	FUEL	INPUT BTU/HR	TANK SIZE GAL	TEMP RISE DEG F	MIN GAS IN.W.C.	PUMP MOTOR HP	AMPS	VOLTS	PH	WIDTH IN.	DEPTH IN.	HEIGHT IN.	CW CONN. IN.	FLUE VENT IN.	GAS CONN IN.	WEIGHT LBS.	MFR	MODEL	
PW-1	4.0	3000	1725	NG	364,835	0	145	9"	7.5	24	230	3	47-1/2	21	51	3/4	8"	3/4"	605	HOTSY	1454N	1, 2, 3, 4

BRUNER, COOPER & ZUCK, INC.
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CHECKED BY: BDS	LEVEL	BY	DATE	DESCRIPTION						SCALE: AS NOTED	SHEET P6.1
DATE: 4-2024										FILE NO.:2452.00 Y-	OF

Drawing Name: I:\2023\PROJECTS\2023181-3 GRUNDY CO TRANSIT BUS FACILITY\DESIGN\DRAWINGS_MECHANICAL\2023181-3 P6.1.dwg Last Modified: Wednesday, April 10, 2024 2:59:37 PM Plotted On: Wednesday, April 10, 2024 4:01:17 PM by Silas W. Harvey

ELECTRICAL NOTES:
- REMOVE ALL ELECTRICAL
- PROTECT XFR SWITCH-OWNER TO REMOVE FROM SITE

ELECTRICAL DEMOLITION PLAN

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

NORTH

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835 Golden Valley Drive
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2023181-3

DRAWN BY: DPN	REVISIONS			Chamlin & Associates	PERU MORRIS OTTAWA MENDOTA ILLINOIS
CHECKED BY: DRM	LEVEL	BY	DATE	DESCRIPTION	GRUNDY COUNTY PROPOSED TRANSIT SYSTEM BUILDING MORRIS, ILLINOIS
DATE: 4-2024					ELECTRICAL DEMOLITION PLAN
					BID SET

CURRENT AS OF: 04-08-2024	
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PANEL: M — VOLTAGE: 120/240V-3PH-4W

MOUNTING: SURFACE — MAINS: 225A MLO W/SFL

CKT. NO.	BKR.	DESCRIPTION	DESCRIPTION	BKR.	CKT. NO.
1	15/3	FAN-1	UH-E2	15/2	2
3	- - -	- - -	- - -	- - -	4
5	- - -	- - -	UH-E4	15/2	6
7	40/3	PW-1	- - -	- - -	8
9	- - -	- - -	SPARE	20/1	10
11	- - -	- - -	SPARE	20/1	12
13	20/1	SPARE	SPARE	20/1	14
15	20/1	SPARE	SPARE	20/1	16
17	20/1	SPARE	SPARE	20/1	18
19	20/1	SPARE	SPARE	20/1	20
21	20/1	SPARE	SPARE	20/1	22
23	20/1	SPARE	SPARE	20/1	24
25	20/1	SPARE	SPARE	20/1	26
27	20/1	SPARE	SPARE	20/1	28
29	20/1	SPARE	SPARE	20/1	30

LIGHTING FIXTURE SCHEDULE

TYPE	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG #
F-A	2' x 2' LAY IN LED FLAT PANEL WITH SEAMLESS ALUMINUM FRAME, SATIN WHITE LENS WITH FULLY LUMINOUS APPEARANCE. INTEGRAL T-BAR CLIPS. 3 LIGHT LEVEL SWITCHABLE INTEGRAL DRIVER, WITH 0-10V DIMMING TO 10%, 20/28/39W, 120-277V. 2,400/3,300/4,400 LUMENS. 4000K. 5 YEAR WARRANTY. LIGHT LEVEL SET AT 2,400 LUMENS.	LITHONIA COLUMBIA	CPANL 2X2 24/33/44LM 40K M4 CBT22-LS40
F-B	2' x 2' LAY IN LED FLAT PANEL WITH SEAMLESS ALUMINUM FRAME, SATIN WHITE LENS WITH FULLY LUMINOUS APPEARANCE. INTEGRAL T-BAR CLIPS. 3 LIGHT LEVEL SWITCHABLE INTEGRAL DRIVER, WITH 0-10V DIMMING TO 10%, 20/28/39W, 120-277V. 2,400/3,300/4,400 LUMENS. 4000K. 5 YEAR WARRANTY. LIGHT LEVEL SET AT 4,400 LUMENS.	LITHONIA COLUMBIA	CPANL 2X2 24/33/44LM 40K M4 CBT22-LS40
F-C	16 INCH DIAMETER LED HIGH BAY LUMINAIRE WITH 0-10V DIMMING TO 10%. 24,000 LUMENS,4000K, 80CRI. FROSTED GLASS LENS. DIMMING SENSOR CONTROL. ON/OFF WITH SECOND TIMEOUT PERIOD. GOES TO A DIMMED STATE BEFORE TURNING OFF. MAX/MIN IN SETTING. MVOLT DRIVER. L90>54,000 HOURS. 181 WATTS. WIDE DISTRIBUTION. WHITE FINISH. 5 YEAR WARRANTY.	LITHONIA	JEBL 24000LM FRGL MVOLT 40K 80CRI
F-D	4' SURFACE MOUNTED LED LUMINAIRE WITH DIFFUSE LENS, 7500 LUMENS, 40K, 80 CRI, MVOLT DRIVER, 59W. 5 YEAR WARRANTY.	LITHONIA	ZL1D L48 SMR 7000LM FST MVOLT 40K 80 CRI
F-E	WALL MOUNTED LED LUMINAIRE. 4200 LUMENS. 4K WITH PHOTOCELL. DARK BRONZE FINISH. MVOLT DRIVER. TYPE 4 MEDIUM DISTRIBUTION. 39W.	LITHONIA	DSXW1 LED 10C 1000 40K T4M MVOLT PE DDBXD.
F-F	4' ENCLOSED & GASKETED LED LUMINAIRE. 8000 LUMENS, MVOLT DRIVER. 4K, 80CRI. WET LOCATION. FROSTED LENS.	LITHONIA	VAP 8000LM FST W1 MVOLT GZ10 40K 80CRI WL
F-G	WALL MOUNTED LED LUMINAIRE. 7500 LUMENS, 4K, WITH PHOTOCELL. DARK BRONZE FINISH. MVOLT DRIVER. TYPE 3 MEDIUM DISTRIBUTION. 73W.	LITHONIA	DCSW1 LED
F-H	AREA LED LUMINAIRE MOUNTED ON A 25' STRAIGHT SQUARE STEEL POLE. 20,000 LUMENS, TYPE 3 MEDIUM DISTRIBUTION. MVOLT DRIVER. INTEGRAL PHOTOCELL, 4K. DARK BRONZE FINISH. SEE POLE BASE DETAIL.	LITHONIA	DSX1 LED P6 40K 80CRI T3M MVOLT SPA PER DLL127F 1.5JU (POLE) SSS-25-4G-DM19AS
F-X1	SINGLE FACE LED EXIT LIGHT WITH CAST ALUMINUM HOUSING, WHITE HOUSING, 6 INCH RED LETTERING WITH 3/4 INCH STROKE. 5 YEAR WARRANTY. INTEGRAL BATTERY BACKUP WITH SEALED MAINTENCE FREE NICKEL CADMIUM BATTERY.	DUAL LITE	SE-S-R-W-E

PANEL: O — VOLTAGE: 120/240V-1PH-3W

MOUNTING: FLUSH — MAINS:

CKT. NO.	BKR.	DESCRIPTION	DESCRIPTION	BKR.	CKT. NO.
1	20/1	LTG OFFICES NORTH	DCOS RECEPT.	20/1	2
3	20/1	LTG OFFICES SOUTH	DCOS RECEPT.	20/1	4
5	20/1	DCOS RECEPT. DRIVERS RM	FUR-2	20/1	6
7	20/1	DCOS RECEPT. DRIVERS RM	FUR-1	20/1	8
9	20/1	DCOS DISPATCH	WH-1	15/2	10
11	20/1	DCOS DISPATCH	- - -	- - -	12
13	20/1	DCOS DISPATCH SOUTH	P-HWC, DCO MECH ROOM	20/1	14
15	20/1	DCOS DISPATCH SOUTH	DCOS IT ROOM WEST, SOUTH	20/1	16
17	20/1	DCO REFRIGERATOR	DCOS IT ROOM EAST, NORTH	20/1	18
19	20/1	DCO BREAK ROOM GFI NORTH	DCOS CONFERENCE ROOM	20/1	20
21	20/1	DCO BREAK ROOM GFI SOUTH	CU-1	35/2	22
23	20/1	DCOS BREAK ROOM	- - -	- - -	24
25	20/1	DCO GFI RESTROOM WEST	CU-2	35/2	26
27	20/1	DCO GFI RESTROOM EAST	- - -	- - -	28
29	20/2	UH-E1	FC-IT, CU-IT	20/2	30
31	- - -	- - -	- - -	- - -	32
33	20/1	DCOS OFFICE 1	SPARE	20/1	34
35	20/1	DCOS OFFICE 2	SPARE	20/1	36
37	20/1	DCOS OFFICE 3	SPARE	20/1	38
39	20/1	DCOS OUTSIDE ROOF LINE	SPARE	20/1	40
41	20/1	SPARE	SPARE	20/1	42

PANEL: T — VOLTAGE: 120/240V-1PH-3W

MOUNTING: SURFACE — MAINS:

CKT. NO.	BKR.	DESCRIPTION	DESCRIPTION	BKR.	CKT. NO.
1	20/1	DCOS ELECTRICAL, NORTH SH	FAN-2, IRH-1 2 3 4	15/1	2
3	20/1	DCOS NORTH SHOP	IRH-5 6 7 8 9	15/1	4
5	20/1	FAN-5	SPARE	20/1	6
7	20/1	SPARE	LTG ELECTRIC RM, STORAGE W	20/1	8
9	20/1	SPARE	DOOR OPERATOR WEST	25/1	10
11	20/1	SPARE	DOOR OPERATOR EAST	20/1	12
13	20/1	SPARE	CO/NOx SENSORS	20/1	14
15	20/1	SPARE	LTG BARN WEST	20/1	16
17	20/1	SPARE	LTG BARN CENTER	20/1	18
19	20/1	SPARE	LTG BARN EAST	20/1	20
21	20/1	SPARE	LTG STORAGE EAST	20/1	22
23	20/1	SPARE	SPARE	20/1	24
25	20/1	SPARE	SPARE	20/1	26
27	20/1	SPARE	SPARE	20/1	28
29	20/1	SPARE	SPARE	20/1	30

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
GENERAL	
	CONCEALED CONDUIT.
	EXPOSED CONDUIT.
CKT	HOMERUN. LETTER INDICATES PANEL, NUMBER INDICATES CIRCUIT.
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
LIGHTING	
	SURFACE MOUNTED LINEAR LUMINAIRE, AS SCHEDULED.
	EXIT SIGN, WALL MOUNTED. 7'-10"AF TO CENTERLINE UNLESS OTHERWISE NOTED.
	RECESSED GRID LUMINAIRE, SHOWN TO SCALE, AS SCHEDULED.
	WALL MOUNTED LUMINAIRE. 9' AG TO BOTTOM UNLESS NOTED OTHERWISE.
C#	CEILING MOUNTED OCCUPANCY SENSOR.
W#	WALL MOUNTED OCCUPANCY SENSOR.
S	SINGLE POLE TOGGLE SWITCH. LETTER INDICATES SWITCH LEG. 46"AF TO CENTERLINE.
$S_{D\#}$	DIGITAL WALL SWITCH.
RC#	DIGITAL ROOM CONTROLLER.
RC#	DIGITAL ROOM CONTROLLER WITH DIMMING.
POWER & DEVICES	
	DUPLEX CONVENIENCE OUTLET. 18"AF TO CENTERLINE UNLESS OTHERWISE NOTED.
	DUPLEX CONVENIENCE OUTLET ABOVE COUNTER. 4" ABOVE BACKSPLASH UNLESS OTHERWISE NOTED.
GFI	DUPLEX CONVENIENCE OUTLET WITH GROUND FAULT CIRCUIT INTERRUPTER. 44"AF UNLESS OTHERWISE NOTED.
	DOUBLE DUPLEX CONVENIENCE OUTLET. 18"AF TO CENTERLINE UNLESS OTHERWISE NOTED.
	DOUBLE DUPLEX CONVENIENCE OUTLET ABOVE COUNTER. 4" ABOVE BACKSPLASH UNLESS OTHERWISE NOTED.
	SURFACE MOUNTED DUPLEX CONVENIENCE OUTLET.
	SURFACE MOUNTED DOUBLE DUPLEX CONVENIENCE OUTLET.
	COMMUNICATIONS OUTLET. 18"AF TO CENTERLINE UNLESS OTHERWISE NOTED.
	COMMUNICATIONS OUTLET ABOVE COUNTER.
SMS	MANUAL STARTER.
	MOTOR CONNECTION, HORSEPOWER AS NOTED.
	PANELBOARD. 72"AF TO TOP.
	EXISTING PANELBOARD.
	DISCONNECT SWITCH. "NF" INDICATES NON-FUSED, "WR" INDICATES WEATHER-RESISTANT. SIZE & FUSING AS NOTED. TOP 66"AF.
	FUSED COMBINATION STARTER/DISCONNECT. SIZE AS NOTED. TOP 66"AF.
	EQUIPMENT CONNECTION AS NOTED.
	ELECTRIC METER.
	JUNCTION BOX. 4"x4"x2 1/8" (MINIMUM), UNLESS OTHERWISE NOTED.
	PUSHBUTTON CONTROL.
WAP	WIRELESS ACCESS POINT. MOUNTED TO CEILING UNLESS NOTED OTHERWISE.

ELECTRICAL ABBREVIATIONS

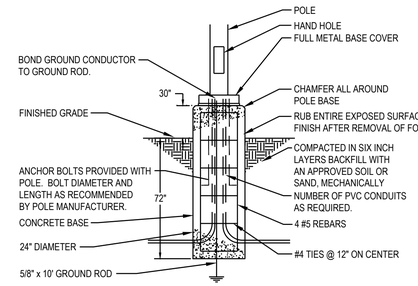
ABBREVIATION	DESCRIPTION
A	AMPERES
AF	ABOVE FLOOR
ASC	ABOVE SUSPENDED CEILING
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CEB	CONCRETE EQUIPMENT BASE
CKT	CIRCUIT
CLG	CEILING
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
DCO	DUPLEX CONVENIENCE OUTLET
DIA	DIAMETER
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EWC	ELECTRIC WATER COOLER
F	FIXTURE(S) (LUMINAIRE)
FBO	FURNISHED BY OTHERS (OWNER)
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPERES
FLR	FLOOR
FUR	FURNACE
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GUH	GAS UNIT HEATER
HP	HORSEPOWER
JB	JUNCTION BOX
KVA	KILO-VOLT AMPERES
KW	KILOWATT
MCA	MINIMUM CIRCUIT AMPACITY
MDP	MAIN DISTRIBUTION PANEL
MFS	MAXIMUM FUSE SIZE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MTC	EMPTY CONDUIT
NF	NON-FUSED
PG	POLYCARBONATE GUARD
PH OR Ø	PHASE
PNL	PANEL
PRI	PRIMARY
PVC	POLY-VINYL CHLORIDE
REFR	REFRIGERATOR
RLA	RATED LOAD AMPS
RTU	ROOFTOP UNIT
S/N	SOLID NEUTRAL
SEC	SECONDARY
UC	UNDER COUNTER
UG	UNDERGROUND
UG-E	UNDERGROUND ELECTRIC
UH	UNIT HEATER
V	VOLTS
VL	VERIFY LOCATION
W	WATTS
WAP	WIRELESS ACCESS POINT
WH	WATER HEATER
WR	WEATHER-RESISTANT
XFMR	TRANSFORMER
(P)	PRESENT
(PX)	PRESENT TO BE REMOVED
(TYP)	TYPICAL

ELECTRICAL DEMOLITION NOTES:

1. IN GENERAL,THE ELECTRICAL ITEMS AND ASSOCIATED DEVICES SHOWN DASHED SHALL BE REMOVED AND THOSE ITEMS SHOWN LIGHTLY ARE TO REMAIN.
2. ALL SERVICES,WHETHER SHOWN OR NOT,WHICH ARE TO REMAIN,SHALL BE MAINTAINED BY THE CONTRACTOR AND SERVICE SHALL BE REROUTED AS REQUIRED TO MAINTAIN THEM.
3. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL DEMOLITION WORK REQUIRED BY THE NEW WORK AND THE GENERAL DEMOLITION.
4. REFER TO GENERAL CONSTRUCTION DRAWINGS AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

ELECTRICAL GENERAL NOTES:

1. IN GENERAL, THE ELECTRICAL ITEMS ANNOTATED WITH (P) ARE EXISTING TO REMAIN, ALL OTHER ITEMS SHALL BE NEW UNLESS OTHERWISE NOTED.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS, ALL OTHER CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR THE ELECTRICAL WORK REQUIRED BY THESE DOCUMENTS.
3. OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK. OFFSET OUTLET BOXES TO MINIMIZE SOUND TRANSMISSION BETWEEN ROOMS.
4. COORDINATE OUTLET BOX LOCATIONS WITH FURNITURE, CABINETS, AND EQUIPMENT.
5. COORDINATE SWITCH BOX LOCATIONS WITH FURNITURE, CABINETS, DOORS, SIDE LITES, ETC.. IN GENERAL, SWITCHES SHALL BE ADJACENT TO LATCH SIDE OF DOOR.
6. COORDINATE ROUTING OF CONDUITS WITH OTHER TRADES. CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO WALLS, CEILINGS, AND FLOORS. PROVIDE JUNCTION AND/OR PULL BOXES AS REQUIRED BY FIELD CONDITIONS.
7. PROVIDE IDENTIFICATION FOR EQUIPMENT, DEVICES & BRANCH CIRCUIT CONDUCTORS AS CALLED FOR IN THE SPECIFICATIONS.
8. REFER TO THE SYMBOLS LIST AND SPECIFICATIONS FOR MOUNTING HEIGHTS OF DEVICES.
9. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
10. COORDINATE THE LOCATION OF LIGHTS, ETC. WITH OTHER TRADES. IN GENERAL, LIGHTS, ETC. SHALL BE MOUNTED IN THE CENTER OF A CEILING TILE.
11. COORDINATE THE LOCATION OF SMOKE DETECTORS, ETC. WITH OTHER TRADES. IN GENERAL, SMOKE DETECTORS, ETC. SHALL BE MOUNTED IN THE CENTER OF A CEILING TILE.



POLE BASE DETAIL

SCALE: NONE

LICENSED PROFESSIONAL ENGINEER
DANIEL R. MOUNT
062-047419
STATE OF ILLINOIS

EXPIRES 11-30-2025

SIGNATURE

04-08-2024

DATE

BRUNER, COOPER & ZUCK, INC.
835 Golden Valley Drive
Bettendorf, IA 52722
563.355.1856

2023181-3

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DATE: 4-2024					FILE NO.:2452.00 Y- — OF

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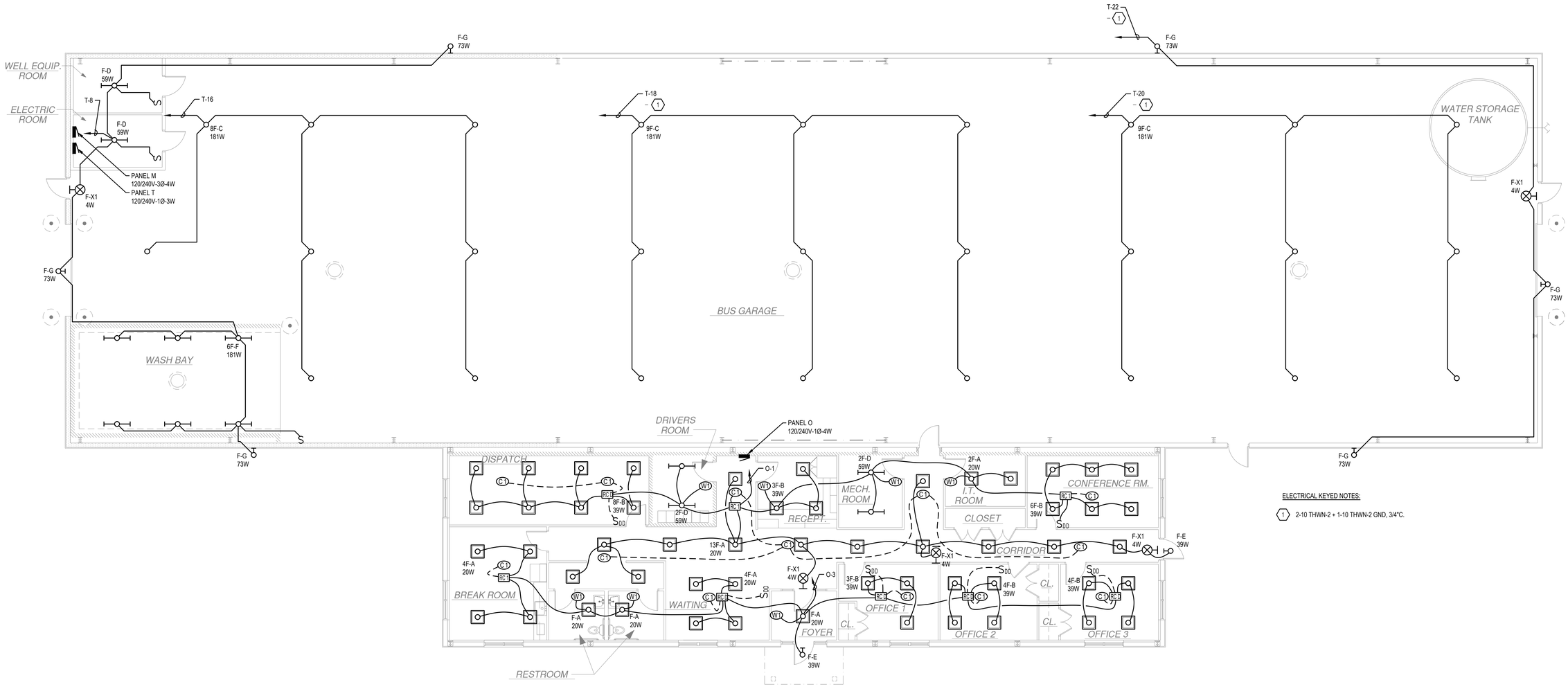
PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

ELECTRICAL GENERAL REQUIREMENTS

BID SET



LIGHTING PLAN

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

NORTH

ELECTRICAL KEYED NOTES:

1 2-10 THWN-2 + 1-10 THWN-2 GND, 3/4"C.

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DATE: 4-2024					LIGHTING PLAN

BID SET

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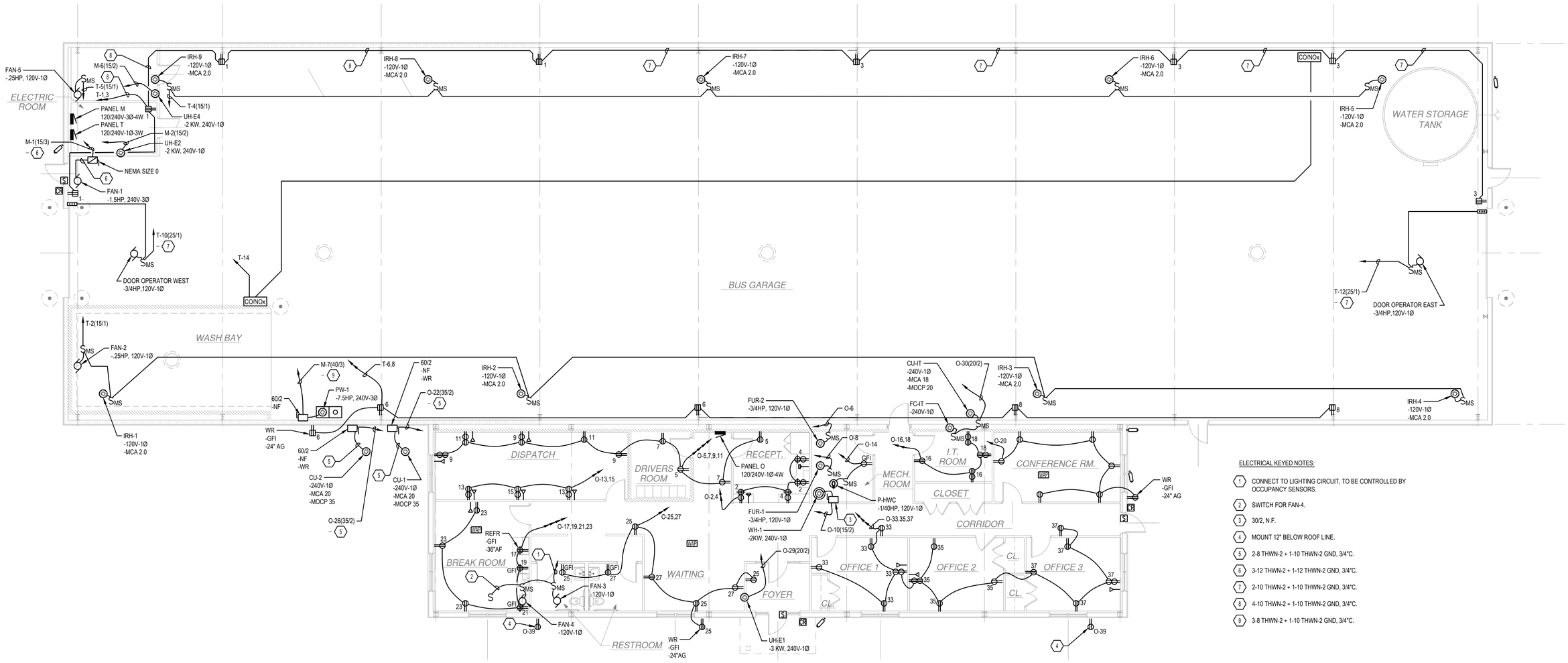

POWER AND SYSTEMS PLAN

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

NORTH

ELECTRICAL KEYED NOTES:

1. CONNECT TO LIGHTING CIRCUIT, TO BE CONTROLLED BY OCCUPANCY SENSORS.
2. SWITCH FOR FAN-4.
3. 30/2, N.F.
4. MOUNT 12" BELOW ROOF LINE.
5. 2-8 THWN-2 + 1-10 THWN-2 GND, 3/4"C.
6. 3-12 THWN-2 + 1-12 THWN-2 GND, 3/4"C.
7. 2-10 THWN-2 + 1-10 THWN-2 GND, 3/4"C.
8. 4-10 THWN-2 + 1-10 THWN-2 GND, 3/4"C.
9. 3-8 THWN-2 + 1-10 THWN-2 GND, 3/4"C.

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CHECKED BY: DRM	LEVEL	BY	DATE	DESCRIPTION				SCALE: AS NOTED	SHEET E1.2
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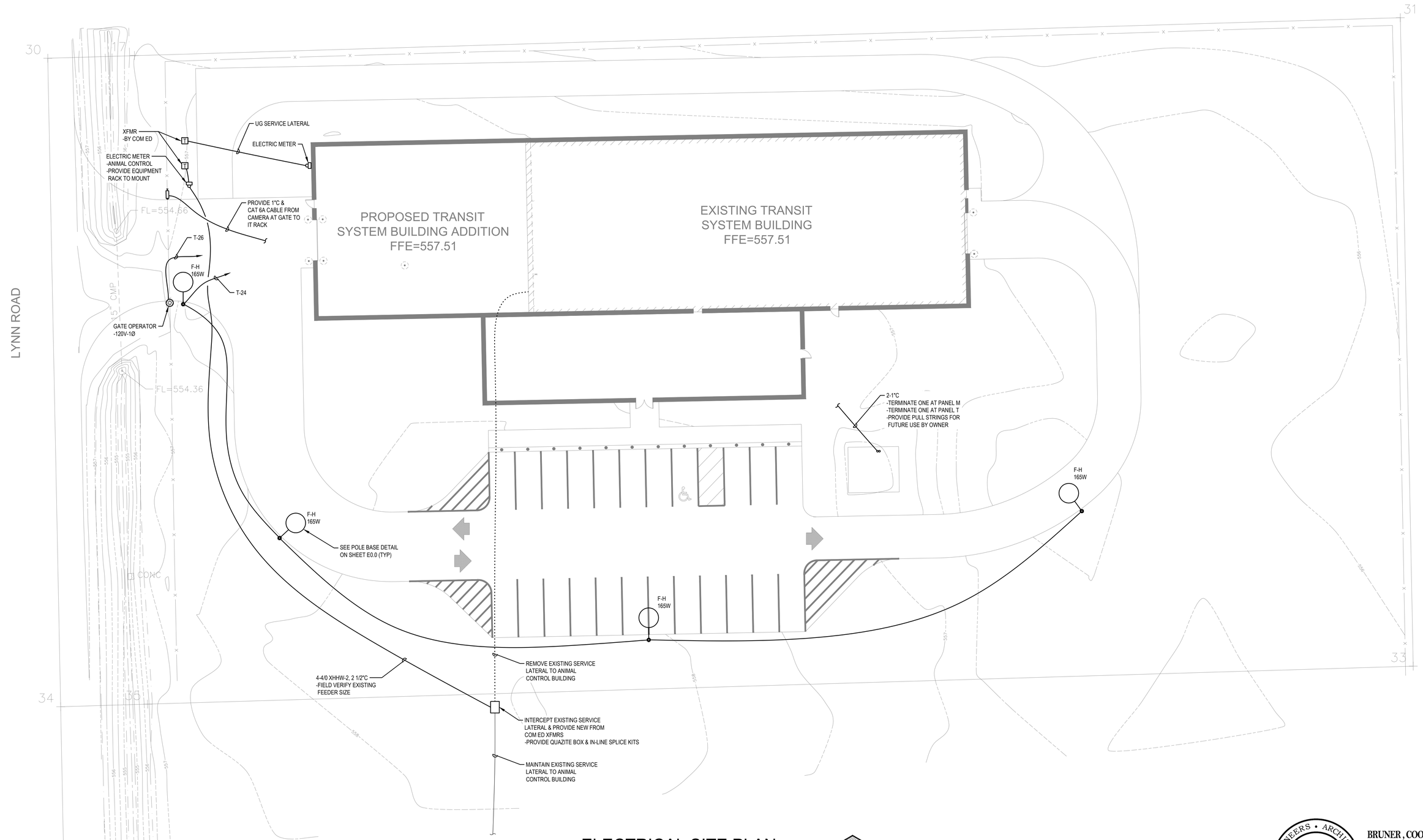

ELECTRICAL SITE PLAN

SCALE: 1/16"= 1'-0"

NORTH

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2023181-3

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ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

ELECTRICAL SITE PLAN

BID SET

CURRENT AS OF: 04-08-2024

SCALE: AS NOTED

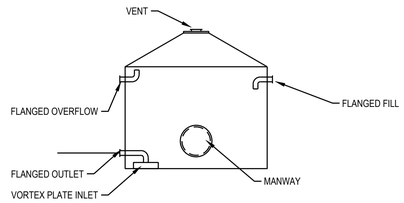
SHEET E1.3

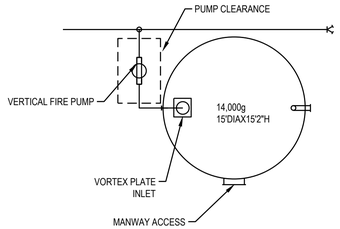
FILE NO.:2452.00 Y-

OF

WATER SOURCE

1. WATER SOURCE TO SERVE FIRE SPRINKLER SYSTEM IS AN ON-SITE VERTICAL STORAGE TANK WITH FIRE PUMP TO PROVIDE 225 GPM FOR 60 MINUTE DURATION BASED ON ORDINARY HAZARD, GROUP 1, MONITORED SYSTEM.
2. WATER STORAGE TANK WILL BE FILLED BY LOCAL FIRE DEPARTMENT SINCE ON-SITE WATER UTILITY IS UN-AVAILABLE.





FIRE PROTECTION ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A/E	ARCHITECT / ENGINEER
AC	ABOVE CEILING
AF	ABOVE FLOOR
AD	ACCESS DOOR
BFP	BACK FLOW PREVENTER
BHP	BRAKE HORSEPOWER
CA	COMPRESSED AIR
CEB	CONCRETE EQUIPMENT BASE
CFM	CUBIC FEET PER MINUTE
CL	CENTER LINE
CONTR	CONTRACTOR
CV	CHECK VALVE
CW	COLD WATER
DIA	DIAMETER
DN	DOWN
DV	DRAIN VALVE
EXP	EXPOSED
FA	FLOW ALARM
FA	FREE AIR
FA	FROM ABOVE
FB	FROM BELOW
FDC	FIRE DEPARTMENT CONNECTION
FLA	FULL LOAD AMPERES
FP	FIRE PROTECTION
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
NC	NEW CONNECTION
Ø	DIAMETER
OS&Y	OUTSIDE STEM & YOKE
P	PUMP
PG	PRESSURE GAGE
RLA	RUNNING OR RATED LOAD AMPS
SPR	SPRINKLER
SV	SHUTOFF VALVE
TA	TO ABOVE
TB	TO BELOW
TS	TAMPER SWITCH
TYP	TYPICAL
V	VOLTS
W	WATTS
(P)	PRESENT
(PA)	PRESENT TO BE ABANDONED
(PR)	PRESENT TO BE RELOCATED
(PX)	PRESENT TO BE REMOVED
(R)	RELOCATED

FIRE PROTECTION SYMBOLS

SYMBOL	DESCRIPTION
SPRINKLER	
	DEMOLITION
	SPRINKLER - CONCEALED
	SPRINKLER - PENDANT
	SPRINKLER - RECESSED
	SPRINKLER - UPRIGHT
	SPRINKLER - WALL
A	FLOW ALARM
	PIPE FITTING
	UP / DOWN
	FIRE DEPARTMENT CONNECTION
	SHUTOFF VALVE
	CHECK VALVE
	STRAINER
BFP	BACKFLOW PREVENTER
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER
# / XX	INDICATES DETAIL/SECTION NUMBER INDICATES SHEET NUMBER

FIRE PROTECTION GENERAL NOTES:

1. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS, EQUIPMENT SCHEDULES, AND DETAILS.
2. ROUTE PIPING SYSTEMS CONCEALED ABOVE CEILINGS UNLESS INDICATED OTHERWISE. MAIN DROPS AND RISES ARE SHOWN, PROVIDE ADDITIONAL DROPS AND RISES AS REQUIRED. INDICATED ELEVATIONS ARE APPROXIMATE. COORDINATE WITH ACTUAL FIELD CONDITIONS.
3. COORDINATE INSTALLATION OF PIPING WITH OTHER PIPING SYSTEMS, DUCTWORK, LIGHTS, AND STRUCTURE.
4. SUPPORT PIPING AND EQUIPMENT FROM TOP CHORD OF JOISTS OR METAL STRUT BEARING ON WALLS. PROVIDE INTERMEDIATE METAL SUPPORTS AS REQUIRED. DO NOT ATTACH TO ROOF DECK FOR SUPPORT.
5. REFER TO EQUIPMENT SCHEDULES AND DETAILS FOR EQUIPMENT PIPE SIZES AND TRIM.
6. REFERENCED FINISHED FIRST FLOOR ELEVATION IS 0.0'.
7. INSTALL SPRINKLER SYSTEM IN ACCORDANCE WITH ALL APPLICABLE NFPA, STATE AND LOCAL CODES. PIPE SIZES AS SHOWN ARE MINIMUM REQUIREMENTS. PROVIDE EXTENDED COVERAGE SPRINKLERS AS NECESSARY.
8. COORDINATE EXACT LOCATION OF SPRINKLER HEADS WITH LIGHTS, CEILING LAYOUT, STRUCTURE, AND ROOF SLOPE.
9. EXPOSED PIPING TO BE LOCATED WHERE SHOWN WITH ALL DEVIATIONS SUBJECT TO PRIOR APPROVAL. CONCEALED PIPING MAY BE ROUTED AS NECESSARY.
10. THESE NOTES APPLY TO ALL FIRE PROTECTION DRAWINGS.

WATER STORAGE TANK (WST) SCHEDULE

NOTES:
1. PROVIDE VERTICAL FIRE WATER STORAGE TANK WITH VORTEX PUMP SUCTION PLATE AND MANWAY ACCESS.
2. WATER STORAGE TANK CONSTRUCTION AND INSTALLATION TO MEET REQUIREMENTS OF NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION.

MARK	PERFORMANCE			TYPE			PHYSICAL							UNIT		NOTES
	VOLUME GAL	PRESSURE CHARGE PSI	DESIGN FLOW GPM	SERVICE	ORIENTATION	MOUNTING	DIA	LENGTH	HEIGHT	OUTLET SIZE IN	DRY WEIGHT LBS	WATER WEIGHT LBS	TOTAL WEIGHT LBS	MFR	MODEL	
WST-1	14,467	0	225	FIRE PROT	VERTICAL	FLOOR	15'-5-1/2"	-	12'-7-1/2"	6	MFR	120,654	MFR	ONE CLARION	SCT1503-LVR	1, 2

PUMP (P) SCHEDULE

NOTES:
1. PROVIDE WITH PUMP CONTROLLER.

MARK	PERFORMANCE								TYPE			ELECTRICAL				PHYSICAL					UNIT		NOTES
	FLOW GPM	HEAD PSI	150% GPM	150% HEAD PSI	DEAD HEAD PSI	SPEED RPM	IMPELLER DIA IN.	EFF. %	STYLE	SERVICE	MOUNTING	BHP	HP	VOLTS	PH	LENGTH IN.	WIDTH IN.	HEIGHT IN.	INLET IN.	OUTLET IN.	MFR	MODEL	
P-FP	250	75	375	72.1	79.6	3550	6.816	-	CENTRIFUGAL	FIRE PROT	IN-LINE	23.4	30	240	3	28.63	14.3	42	4	4	AC FIRE PUMP	4x4x9.5F	1

LICENSED PROFESSIONAL ENGINEER
BRIAN D. STONE
062-051944
STATE OF ILLINOIS

EXPIRES 11-30-2025

SIGNATURE

04-08-2024
DATE

BRUNER, COOPER & ZUCK, INC.
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2023181-3

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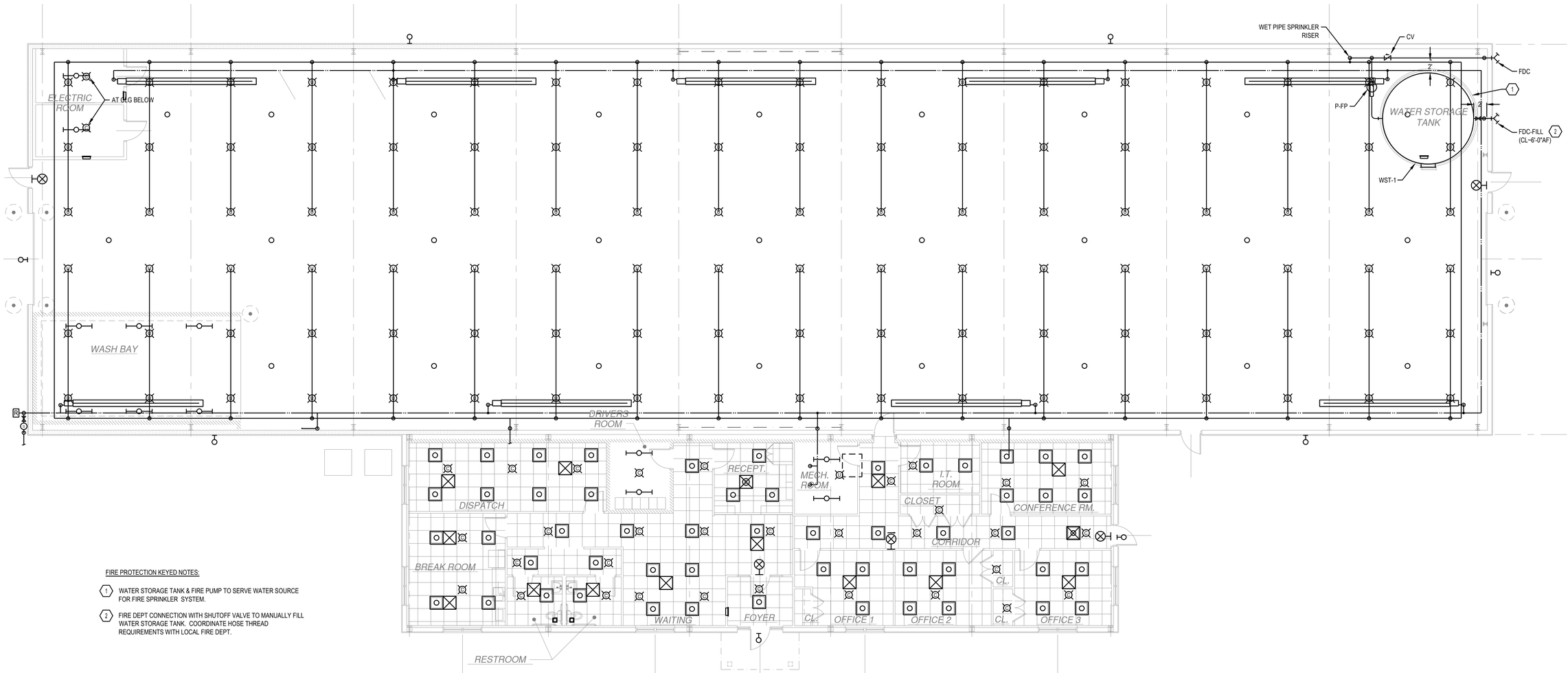
CHECKED BY: BDS	LEVEL	BY	DATE	DESCRIPTION						SCALE: AS NOTED	SHEET FP0.0
DATE: 4-2024										FILE NO.:2452.00 Y-	OF

Drawing Name: I:\2023\PROJECTS\2023181-3 GRUNDY CO TRANSIT BUS FACILITY\DESIGN\DRAWINGS_MECHANICAL\2023181-3 FP0.0.dwg Last Modified: Wednesday, April 10, 2024 2:58:37 PM Plotted On: Wednesday, April 10, 2024 4:00:37 PM by Silas W. Harvey



FIRE PROTECTION KEYED NOTES:

1. WATER STORAGE TANK & FIRE PUMP TO SERVE WATER SOURCE FOR FIRE SPRINKLER SYSTEM.
2. FIRE DEPT CONNECTION WITH SHUTOFF VALVE TO MANUALLY FILL WATER STORAGE TANK. COORDINATE HOSE THREAD REQUIREMENTS WITH LOCAL FIRE DEPT.

FIRE PROTECTION PLAN

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

NORTH

BRUNER, COOPER & ZUCK, INC.
835 Golden Valley Drive
Bettendorf, IA 52722
563.355.1856

2023181-3

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CHECKED BY: BDS	LEVEL	BY	DATE	DESCRIPTION
DATE: 4-2024				

Chamlin & Associates

PERU MORRIS
OTTAWA MENDOTA
ILLINOIS

GRUNDY COUNTY
PROPOSED TRANSIT SYSTEM BUILDING
MORRIS, ILLINOIS

FIRE PROTECTION PLAN

BID SET

CURRENT AS OF: 04-08-2024
SCALE: AS NOTED
SHEET FP1.1
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