PROPOSED FACILITIES FOR:

MARATHON COUNTY HIGHWAY

KRONENWETTER, WI

PROJECT INFORMATION

SITE INFORMATION:

PROPERTY AREA: 1,099,758 S.F. (25.25 ACRES).
LOT 1 OF PROPOSED CSM

EXISTING ZONING: B3 - GENERAL COMMERCIAL, SF - SINGLE FAMILY RES, 2F - TWO FAMILY RES, RR2 - RURAL RESIDENTIAL 2

PROPOSED ZONING: M2 GENERAL INDUSTRIAL (CONDITIONAL USE FOR HWY FACILITY)

PROPOSED USE: COUNTY HIGHWAY GARAGE FACILITY

AREA OF SITE DISTURBANCE: 25 ACRES

SETBACKS:
BUILDING: FRONT(WEST & SOUTH) = 40'
SIDE(NORTH) = 15'
REAR(EAST) = 30'
PAVEMENT: FRONT(WEST & SOUTH) = 10'
SIDE(NORTH) = 5'
REAR(EAST) = 5'

PROPOSED BUILDING HEIGHT: 36' (MAX. HT. ALLOWED: 60' PRIMARY, 35' ACCESSORY)

PARKING REQUIRED: 1 SPACE PER EMPLOYEE LARGEST SHIFT (55 SPACES REQ.)
1 SPACE PER 500 GFA (14 SPACES REQ.)

PARKING PROVIDED: 92 SPACES (4 H.C. ACCESSIBLE)

HANDICAP STALLS REQUIRED: 4, HANDICAP STALLS PROVIDED: 4

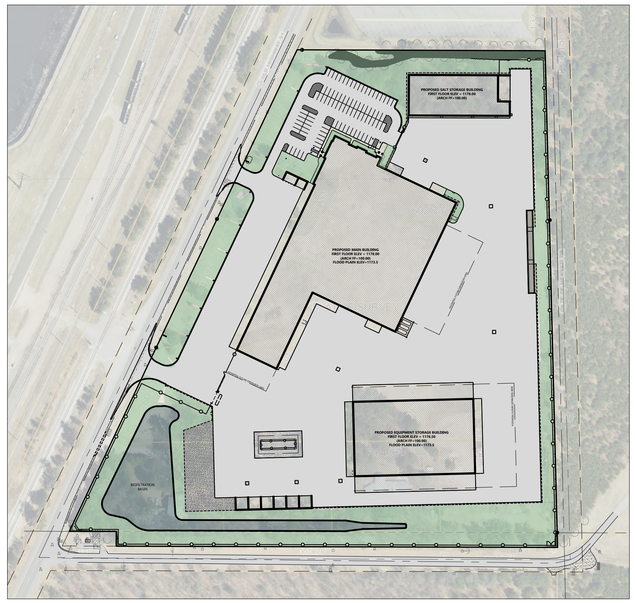
LANDSCAPE REQUIREMENTS: MIN. LANDSCAPE SURFACE RATIO: 10%

EXISTING SITE DATA

	AREA (AC)	AREA (SF)	RATIO
BUILDING FLOOR AREA	0.43	18,929	1.7%
PAVEMENT (ASP. & CONC.)	0.64	27,931	2.5%
TOTAL IMPERVIOUS	1.08	46,860	4.3%
LANDSCAPE/ OPEN SPACE	24.17	1,052,898	95.7%
PROJECT SITE	25.25	1,099,758	100.0%

PROPOSED SITE DATA

	AREA (AC)	AREA (SF)	RATIO
BUILDING FLOOR AREA	5.02	218,726	19.9%
PAVEMENT (ASP. & CONC.)	13.34	581,256	52.9%
TOTAL IMPERVIOUS	18.37	799,982	72.7%
LANDSCAPE/ OPEN SPACE	6.88	299,776	27.3%
PROJECT SITE	25.25	1,099,758	100.0%



SITE PLAN OVERVIEW

SCALE: 1"= 150'

NORTH

150' 0 150' 300'

LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYM.	IDENTIFICATION	SYM.	IDENTIFICATION
SPOT ELEVATIONS			
000.00	PROPOSED SPOT ELEVATIONS (FLOW LINE OF CURB UNLESS OTHERWISE SPECIFIED)	000.00 TC / 000.00 FL	PROPOSED SPOT ELEVATIONS (TOP OF CURB, FLOWLINE OF CURB)
000.00 EG	EXISTING GRADE SPOT ELEVATIONS		
000.00 BG / 000.00 FG	PROPOSED SPOT ELEVATIONS (REFERENCE R-WALL DETAIL) BG-FINISHED SURFACE GRADE AT BACK OF WALL FG-FINISHED SURFACE GRADE AT FRONT OF WALL	000.00 TW / 000.00 BW	PROPOSED SPOT ELEVATIONS (TOP OF WALK, BOTTOM OF WALK @ FLOWLINE)
EXISTING SITE SYMBOLS			
	EXISTING SIGN		EXISTING UTILITY POLE
	EXISTING HANDICAP PARKING STALL		EXISTING UTILITY POLE WITH GUY WIRE
	EXISTING WATER VALVE IN BOX		EXISTING STREET LIGHT
	EXISTING WATER VALVE IN MANHOLE		EXISTING TELEPHONE PEDESTAL
	EXISTING WATER SERVICE VALVE		EXISTING ELECTRIC PEDESTAL
	EXISTING WELL		EXISTING ELECTRIC BOX
	EXISTING STORM CATCH BASIN		EXISTING FLOOD LIGHT
	EXISTING STORM CURB INLET		EXISTING TELEPHONE MANHOLE
	EXISTING SQUARE CATCH BASIN		EXISTING CABLE TV PEDESTAL
	EXISTING LIGHT POLE		EXISTING GAS VALVE
	1-1/4" REBAR SET WEIGHING 4.30 LB/FT.		EXISTING HEDGE
	3/4" REBAR SET WEIGHING 1.50 LB/FT.		EXISTING WOODED AREA
	1-1/4" REBAR FOUND		EXISTING MARSH AREA
	3/4" REBAR FOUND		EXISTING DECIDUOUS TREE WITH TRUNK DIAMETER
	2" IRON PIPE FOUND		EXISTING CONIFEROUS TREE
	1" IRON PIPE FOUND		EXISTING SHRUB
	SECTION CORNER		EXISTING STUMP
PROPOSED SITE SYMBOLS			
	PROPOSED SIGN		PROPOSED STORM FIELD INLET - ST FI
	PROPOSED HANDICAP PARKING STALL		PROPOSED LIGHT POLE
	PROPOSED WATER VALVE IN BOX		PROPOSED DRAINAGE FLOW
	PROPOSED WATER VALVE IN MANHOLE		PROPOSED APRON END SECTION
	PROPOSED WATER SERVICE VALVE		SOIL BORING
	PROPOSED WELL		CENTER LINE
	PROPOSED STORM CATCH BASIN - ST CB	CO	PROPOSED CLEANOUT
	PROPOSED STORM CURB INLET - ST CI	DSG	PROPOSED DOWNSPOUT TO GRADE
	PROPOSED STORM LARGE GRATE CATCH BASIN - ST CB	DSR	PROPOSED DOWNSPOUT TO RISER
EXISTING LINETYPES			
	EXISTING CHAINLINK FENCE	POL	EXISTING POLISH SEWER AND MANHOLE
	EXISTING WOOD FENCE	P	EXISTING PROCESS SEWER AND MANHOLE
	EXISTING BARBED WIRE FENCE	CLW	EXISTING CLEAR WATER LINE
	EXISTING CURB AND GUTTER	FO	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING GUARD RAIL	E	EXISTING UNDERGROUND ELECTRIC CABLE
800	EXISTING GROUND CONTOUR	T	EXISTING UNDERGROUND TELEPHONE CABLE
ST	EXISTING STORM SEWER AND MANHOLE	G	EXISTING UNDERGROUND GAS LINE
SA	EXISTING SANITARY SEWER AND MANHOLE	OU	EXISTING OVERHEAD UTILITY LINE
205	EXISTING WATER LINE AND HYDRANT		RAILROAD TRACKS
	INTERIOR PROPERTY LINE		RIGHT-OF-WAY LINE
PROPOSED LINETYPES			
	PROPOSED CHAINLINK FENCE	POL	PROPOSED POLISH SEWER AND MANHOLE
	PROPOSED WOOD FENCE	P	PROPOSED PROCESS SEWER AND MANHOLE
	PROPOSED BARBED WIRE FENCE	FP	PROPOSED FIRE PROTECTION WATER LINE
	PROPOSED CURB AND GUTTER	FO	PROPOSED UNDERGROUND FIBER OPTIC LINE
	PROPOSED GUARD RAIL	E	PROPOSED UNDERGROUND ELECTRIC CABLE
800	PROPOSED GROUND CONTOUR	T	PROPOSED UNDERGROUND TELEPHONE CABLE
ST	PROPOSED STORM SEWER AND MANHOLE - ST MH	G	PROPOSED UNDERGROUND GAS LINE
SA	PROPOSED SANITARY SEWER AND MANHOLE - SAN MH	OU	PROPOSED OVERHEAD UTILITY LINE
	PROPOSED WATER LINE AND HYDRANT		MATCHLINE
	PROPOSED PROPERTY LINE		GRADING/SEEDING LIMITS

PROJECT CONTACTS

OWNER INFORMATION:
MARATHON COUNTY HIGHWAY
TROY TORGERSON
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E-mail: firechief@kronenwetter.gov

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VILLAGE DIRECTIOR OF PUBLIC WORKS:
GREG ULMAN
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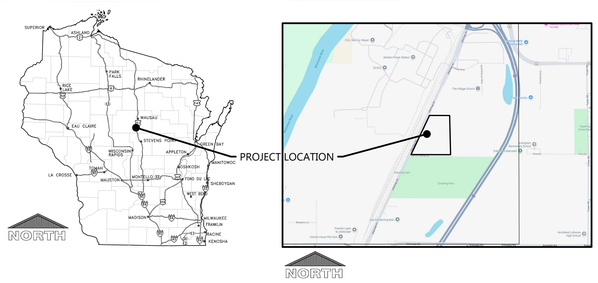
E-mail: gulman@kronenwetter.gov

LOCATION MAP



NTS

PROJECT NOTES

GENERAL PROJECT NOTES

1. ALL DRIVEWAYS AND CURB CUTS TO BE CONSTRUCTED ACCORDING TO LOCAL ORDINANCES. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WORK IN ROW PERMITS.

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511

TOLL FREE TELEFAX (414) 259-0947
TDD (FOR THE HEARING IMPAIRED)
1-800 542-2289

WISCONSIN STATUTE 182.0175 (1974)
REQUIRES MINIMUM OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

BENCHMARK NOTE:

BENCHMARKS SHOWN ON THIS PLAN ARE ON NAVD 88 DATUM.

SHEET INDEX

SHEETS BELOW INTENDED TO BE PRINTED IN: COLOR. REFER TO DIGITAL FORMAT DRAWINGS IF PRINTED GRAYSCALE TO ENSURE SCOPE CLARITY.

NUMBER	SHEET NAME / DESCRIPTION
C0.1	COVER SHEET
C0.2	SPECIFICATIONS
C1.0	EXISTING SITE AND DEMOLITION PLAN
C1.1	SITE PLAN
C1.2	OVERALL GRADING AND EROSION CONTROL PLAN
C1.2A	GRADING AND EROSION CONTROL PLAN NORTH
C1.2B	GRADING AND EROSION CONTROL PLAN SOUTH
C1.3	UTILITY PLAN
C1.4	LANDSCAPE AND RESTORATION PLAN
C1.4A	LANDSCAPE AND RESTORATION PLAN NORTH
C1.4B	LANDSCAPE AND RESTORATION PLAN SOUTH
C2.0	DETAILS
C2.1	DETAILS
C3.1	SITE PHOTOMETRIC PLAN & DETAILS
C3.2	SITE PHOTOMETRIC DETAILS

CIVIL COVER SHEET

EXCEL
Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

COLLABORATION
Miron
Building Excellence
Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL
GRANT DUCHAC
42768-6
FOND DU LAC
WISCONSIN
PROFESSIONAL ENGINEER
07/24/2026

PRELIMINARY DATES
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C0.1

CIVIL SPECIFICATIONS

DIVISION 31 EARTH WORK

31 10 00 SITE CLEARING (DEMOLITION)

A. CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
B. CONTRACTOR TO FIELD TELEVISE ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE AT TIME OF DEMOLITION. THE TELEVISING SHALL BE COMPLETED TO ENSURE THE EXISTING LATERAL(S) ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISING OF THESE LATERAL(S) SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISING.
C. DEMOLITION PLAN IS AN OVERVIEW OF DEMOLITION TO TAKE PLACE ON SITE. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPLACE, OR DEMOLISH ALL ITEMS AS NEEDED DURING CONSTRUCTION.
D. CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED AT CONTRACTORS EXPENSE.
E. ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.

31 20 00 EARTH MOVING

A. CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
B. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.
C. ALL ORGANIC TOPSOIL INSIDE THE BUILDING AREA, UNDER PAVED AREAS, AND AT SITE FILL AREAS SHALL BE REMOVED. PROOF ROLL SUBGRADES BEFORE PLACING FILL WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY-LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR THE PROJECT. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY LOCAL ZONING REQUIREMENTS.
D. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS. UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE, OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL THAT IS TOO WET TO COMPACT TO SPECIFIED DRY DENSITY.
E. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
F. COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698, STANDARD PROCTOR TEST. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
   1. UNDER FOUNDATIONS - SUBGRADE, AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 98 PERCENT.
   2. UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE, WITH 5% TO 12% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
   3. UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE- PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE, WITH NO MORE THAN 5% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
   4. UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
   5. UNDER WALKWAYS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
   6. UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL, TO NOT LESS THAN 85 PERCENT.
G. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF PASSING DENSITY TESTING AND PROOF-ROLLING TO ENGINEER UPON COMPLETION. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USED TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE ENGAGED FOR THE FIELD QUALITY CONTROL TESTS. THE GEOTECHNICAL REPORT WAS PERFORMED BY POINT OF BEGINNING.
H. ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB, ONE TEST FOR EACH SPREAD FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL STRIP FOOTING.
I. WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
J. THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADED TO WITHIN 0.10' OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

31 30 00 EROSION CONTROL/STORMWATER MANAGEMENT

A. THE EXCEL ENGINEERING DESIGN ENGINEER SHALL PREPARE A SITE SPECIFIC EROSION CONTROL AND A STORMWATER MANAGEMENT PLAN PURSUANT TO NR 216.46 AND NR 216.47. THE DESIGN ENGINEER SHALL ALSO FILE A CONSTRUCTION NOTICE OF INTENT WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES PURSUANT TO NR 216.43 OR TO AN AUTHORIZED LOCAL PROGRAM PURSUANT TO NR 216.415 TO OBTAIN COVERAGE UNDER THE GENERAL WPDES STORM WATER PERMIT.
B. THE CONTRACTOR SHALL KEEP THE NOTICE OF INTENT PERMIT, APPROVED EROSION CONTROL AND STORMWATER MANAGEMENT PLANS, AND PLAN AMENDMENTS ON THE CONSTRUCTION SITE AT ALL TIMES PURSUANT TO NR 216.455 UNTIL PERMIT COVERAGE IS TERMINATED.
C. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL EROSION CONTROL PERMITS.
D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE MONITORING, MAINTENANCE, AND REPORTING REQUIREMENTS OF NR 216.48. INSPECTIONS OF IMPLEMENTED EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST AT A MINIMUM BE INSPECTED EVERY 7 CALENDAR DAYS OR EVERY 14 DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5" OR MORE. A RAIN EVENT MAY BE CONSIDERED TO BE THE TOTAL AMOUNT OF PRECIPITATION RECORDED IN ANY CONTINUOUS 24-HOUR PERIOD. THE CONTRACTOR SHALL REPAIR OR REPLACE EROSION AND SEDIMENT CONTROL AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR AFTER A DEPARTMENT NOTIFICATION WHERE REPAIR OR REPLACEMENT IS REQUESTED.
E. THE CONTRACTOR SHALL MAINTAIN, AT THE CONSTRUCTION SITE OR AVAILABLE VIA AN INTERNET WEBSITE, WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS CONDUCTED. WISCONSIN DNR CONSTRUCTION SITE INSPECTION REPORT FORM 3400-187 SHALL BE USED. WEEKLY INSPECTION REPORTS SHALL INCLUDE ALL OF THE FOLLOWING:
   1. THE DATE, TIME, AND LOCATION OF THE CONSTRUCTION SITE INSPECTION.
   2. THE NAME OF THE INDIVIDUAL WHO PERFORMED THE INSPECTION.
   3. AN ASSESSMENT OF THE CONDITION OF THE EROSION AND SEDIMENT CONTROLS.
   4. A DESCRIPTION OF ANY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED.
   5. A DESCRIPTION OF THE PRESENT PHASE OF LAND DISTURBING CONSTRUCTION ACTIVITY AT THE CONSTRUCTION SITE.
F. EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN WISCONSIN ADMINISTRATIVE CODE (W.A.C.) NR 151, THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES RUNOFF MANAGEMENT PERFORMANCE STANDARDS. TECHNICAL STANDARDS PUBLISHED BY THE WISCONSIN DNR SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHODS AND TYPES OF EROSION CONTROL WILL BE DEPENDENT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION, AND INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED.
   1. SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WILL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1056 (CURRENT EDITION).
   2. DITCH CHECKS SHALL BE PROVIDED TO REDUCE THE VELOCITY OF WATER FLOWING IN DITCH BOTTOMS. PLACE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1062 (CURRENT EDITION).
   3. STONE TRACKING PADS AND TRACKOUT CONTROL PRACTICES SHALL BE PLACED AT ALL CONSTRUCTION SITE ENTRANCES AND SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE CONSTRUCTION SITE. SEE THE EROSION CONTROL PLAN FOR LOCATIONS. THE AGGREGATE USED FOR THE STONE TRACKING PAD SHALL BE 3/8" TO 3 INCH CLEAR OR WASHED STONE AND SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK. THE STONE SHALL BE UNDERLAIN WITH A WISDOT TYPE R GEOTEXTILE FABRIC AS NEEDED. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (12' MIN WIDTH) AND SHALL BE A MINIMUM OF 50 FEET LONG. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. OTHER TRACKOUT CONTROL PRACTICES INCLUDING STABILIZED WORK SURFACES, MANUFACTURED TRACKOUT CONTROL DEVICES, TIRE WASHING, AND STREET/PAVEMENT CLEANING SHALL BE IMPLEMENTED AS NECESSARY TO MITIGATE THE TRACKOUT OF SEDIMENT OFFSITE. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1057 (CURRENT EDITION).
   4. STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. TYPE B OR C PROTECTION SHOULD BE PROVIDED AND SHALL BE IN CONFORMANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1060 (CURRENT EDITION).
   5. DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRAYING, SURFACE ROUGHENING, APPLYING POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES, AND BARRIERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION).
   6. THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATERS OF THE STATE.
   7. CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THIS DESIGNATED AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
   8. TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THIS TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERENNIAL VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT STABILIZATION SHALL OCCUR WITHIN 3 WORKING DAYS OF FINAL GRADING. TOPSOIL, SEED, AND MULCH SHALL BE IN GENERAL CONFORMANCE WITH TECHNICAL STANDARDS 1058 AND 1059 AND SHALL MEET THE SPECIFICATIONS FOUND IN THE LANDSCAPING AND SITE STABILIZATION SECTION OF THIS CONSTRUCTION DOCUMENT. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
   9. IF SITE DEWATERING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES, ALL SEDIMENT LADEN WATER GENERATED DURING THE DEWATERING PROCESS SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGING OFF-SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN TECHNICAL STANDARD 1061.
   10. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REQUIREMENTS SHALL BE FOLLOWED PER WI DNR TECHNICAL STANDARD 1068 (CURRENT EDITION). FLUSHING SHALL NOT BE ALLOWED.
G. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREA(S) SERVED HAVE ESTABLISHED VEGETATIVE COVER.
H. ONCE THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED AND TEMPORARY EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN REMOVED, THE CONTRACTOR SHALL FILE A CONSTRUCTION NOTICE OF TERMINATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES IN ACCORDANCE WITH NR 216.55.
I. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL GIVE THE OWNER COPIES OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS, AMENDMENTS TO PLANS, SUPPORTING PLAN DATA, AND CONSTRUCTION SITE EROSION CONTROL INSPECTION REPORTS. THE OWNER SHALL RETAIN THESE FOR A PERIOD OF 3 YEARS FROM THE DATE OF TERMINATING COVERAGE UNDER WPDES GENERAL PERMIT.
J. ALL POST CONSTRUCTION STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES SHALL BE CONSTRUCTED BEFORE THE SITE HAS UNDERGONE FINAL STABILIZATION.

DIVISION 32 EXTERIOR IMPROVEMENTS

32 10 00 GRAVEL AREAS

A. CONTRACTOR TO PROVIDE COMPACTED GRAVEL WHERE INDICATED ON THE PLANS. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. CONTRACTOR TO PROVIDE AGGREGATE TYPES AND DEPTHS AS INDICATED BELOW:
   5" OF 3/4" CRUSHED AGGREGATE
   8" OF 1-1/4" CRUSHED AGGREGATE
   12" OF 3" CRUSHED AGGREGATE
B. CONTRACTOR TO COMPACT THE AGGREGATE TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL GRAVEL AREAS SHALL BE GRADED TO WITHIN 0.10' OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1% SLOPE SHALL BE MAINTAINED IN ALL GRAVEL AREAS.

32 20 00 AGGREGATE BASE & ASPHALT PAVEMENT

A. CONTRACTOR TO PROVIDE COMPACTED AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT WHERE INDICATED ON THE PLANS. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. PROVIDE HOT MIX ASPHALT MIXTURE TYPES PER SECTION 460 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. CONTRACTOR SHALL OBTAIN AND REVIEW SOILS REPORT FOR RECOMMENDATIONS FOR GEO-GRID / GEOTEXTILE BELOW CRUSHED AGGREGATE (IF APPLICABLE). CONTRACTOR TO PROVIDE AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT TYPES AND DEPTHS AS INDICATED BELOW:

STANDARD ASPHALT PAVING SECTION	HEAVY ASPHALT PAVING SECTION
1.5" SURFACE COURSE (5 MT 58-28S)	1.5" SURFACE COURSE (5 MT 58-28S)
(WISDOT 455.2.5 TACK COAT (STAGED PAVING)	WISDOT 455.2.5 TACK COAT (STAGED PAVING)
2.5" BINDER COURSE (3 MT 58-28S)	3.5" BINDER COURSE (2 MT 58-28S)
8" OF 1-1/4" CRUSHED AGGREGATE	8" OF 1-1/4" CRUSHED AGGREGATE
12" OF 3" CRUSHED AGGREGATE	12" OF 3" CRUSHED AGGREGATE

B. CONTRACTOR TO COMPACT THE AGGREGATE BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL ASPHALT PAVEMENT AREAS SHALL BE PAVED TO WITHIN 0.05' OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1.5% SLOPE SHALL BE MAINTAINED IN ALL ASPHALT PAVEMENT AREA.
C. HOT MIX ASPHALT CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF GEOTECHNICAL REPORT OR CONSTRUCTION DOCUMENTS.
D. CONTRACTOR TO PROVIDE 4" WIDE (YELLOW OR WHITE) PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. (YELLOW OR WHITE) PAINT MARKINGS SHALL ALSO BE PROVIDED FOR H.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

32 30 00 CONCRETE AND AGGREGATE BASE

A. CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS.
B. ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL AGGREGATE PLACED MUST BE COMPACTED TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
C. DESIGN AND CONSTRUCTION OF ALL CAST-IN-PLACE EXTERIOR CONCRETE FLAT WORK SHALL CONFORM TO ACI 330R-08 & ACI 318-08.
D. EXTERIOR CONCRETE FLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE GEOTECHNICAL REPORT OR THIS SPECIFICATION. CONCRETE FLAT WORK CONSTRUCTION IS AS FOLLOWS:
   1. SIDEWALK CONCRETE - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE. CONTRACTION JOINTS SHALL CONSIST OF 1/8" WIDE BY 1" DEEP TOOLED JOINT WHERE INDICATED ON THE PLANS.
   2. DUMPSTER PAD/APRON CONCRETE - 8" OF CONCRETE OVER 6" OF AGGREGATE BASE.
      a. CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO ½ OF THE SLAB:
         1) TIE BARS AT ALL CONTRACTION JOINTS OF THE CONCRETE. TIE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.
      b. DUMPSTER PAD CONCRETE JOINTING SHALL BE AS FOLLOWS:
         1) CONTRACTION SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH.
         2) TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1-1/4" DIAMETER BY 20" LONG SMOOTH DOWEL PLACED AT 12" O.C. ONE HALF OF THE DOWEL SHALL BE GREASED. GREENSTREAK 9" SPEED DOWEL TUBES SHALL BE USED.
   4. HEAVY DUTY CONCRETE (TRUCK TRAFFIC) - 6" OF CONCRETE OVER 6" OF 3/4" CRUSHED AGGREGATE. CONCRETE SHALL BE REINFORCED WITH #3 REBARS ON CHAIRS AT 3' O.C. REBAR SHALL BE PLACED IN THE UPPER 1/3 TO ½ OF THE SLAB. CONTRACTION JOINTS SHALL BE SAWCUT 1.5" IN DEPTH AND BE SPACED A MAXIMUM OF 15' ON CENTER.
   5. HEAVY DUTY CONCRETE (TRUCK TRAFFIC) ALTERNATE - 6" OF CONCRETE OVER 6" OF 3/4" CRUSHED AGGREGATE BASE. CONCRETE SHALL BE REINFORCED WITH SYNTHETIC MACRO-FIBERS (FORTA FERRO OR EQUIV.) MIN. LENGTH OF 2", DIAMETER EQUAL OR GREATER THAN 0.012" AND PLACED AT A RATE OF 5.0 LBS FIBER/YARD^3 OF CONCRETE. THEY SHALL BE SPECIFICALLY MANUFACTURED FOR CONCRETE REINFORCEMENT AND CONFORM WITH ASTM C 1116, TYPE III FIBER REINFORCED CONCRETE. CONTRACTION JOINTS SHALL BE SAWCUT 1.5" IN DEPTH AND BE SPACED A MAXIMUM OF 15' O.C. CONTRACTOR TO PROVIDE A TEST PANEL FOR OWNERSHIP TO APPROVE PRIOR TO INSTALLATION. CONTRACTOR TO SCHEDULE PRE CONSTRUCTION MEETING WITH FIBER REPRESENTATIVE BEFORE PLACEMENT OF CONCRETE.
      a. CONCRETE SHALL BE STEEL REINFORCED AS FOLLOWS:
         1) TIE BARS AT OUTERMOST CONTRACTION JOINT (FIRST JOINT FROM EDGE OR AT CURB JOINT) AROUND PERIMETER OF CONCRETE. TIE BARS SHALL BE #5 REBAR 24" LONG PLACED AT 30" O.C.
         2) TYPICAL POUR CONTROL JOINT - POUR CONTROL JOINT SHALL BE PROVIDED WITH 1/4" X 4-1/2" X 4-1/4" DIAMOND SHAPED TAPERED PLATE DOWELS MANUFACTURED PER ASTM A36. INSTALL PER MANUFACTURERS SPECIFICATIONS.
E. DESIGN MIXES SHALL BE IN ACCORDANCE WITH ASTM C94
   6. STRENGTH TO BE MINIMUM OF 4,500 PSI AT 28 DAYS FOR EXTERIOR CONCRETE.
   7. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.
   8. SLUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE FLAT WORK
   9. SLUMP SHALL BE 2.5" OR LESS FOR SLIP-FORMED CURB AND GUTTER
   10. SLUMP SHALL BE BETWEEN 1.5" TO 3" FOR NON SLIP-FORMED CURB AND GUTTER.
   11. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 4% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE SHALL NOT BE USED.
   12. MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES.
F. VERIFY EQUIPMENT CONCRETE PAD SIZES WITH CONTRACTOR REQUIRING PAD. PADS SHALL HAVE FIBERMESH 300 FIBERS AT A RATE OF 1.5 LBS/CU. YD. OR 6 X 6-W1.4 X W1.4 WELDED WIRE MESH WITH MINIMUM 1 INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. CONCRETE SHALL BE PROVIDED ON 6" OF 3/4" CRUSHED AGGREGATE BASE. COORDINATE ADDITIONAL PAD REQUIREMENTS WITH RESPECTIVE CONTRACTOR.
G. ALL CONCRETE FLAT WORK SURFACES AND CONCRETE CURB FLOWLINES SHALL BE CONSTRUCTED TO WITHIN 0.05' OF DESIGN SURFACE AND FLOWLINE GRADES ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS.
H. CONCRETE FLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER JOINTING SHALL BE PLACED EVERY 10' OR CLOSER (6' MIN.). IF CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB, JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH SOLIDS CURING COMPOUND MEETING ASTM C309 SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE IS TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATED FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.25 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS.
I. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND WITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" FOR UP TO #5 BARS AND 2" FOR #6 TO #10 BARS IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPPED 48 DIAMETERS FOR UP TO #6 BARS, 62 DIAMETERS FOR #7 TO #9 BARS, 68 DIAMETERS FOR #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNER BARS. PLACING AND DETAILING OF STEEL REINFORCING AND REINFORCING SUPPORTS SHALL BE IN ACCORDANCE WITH CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE/OIL, DIRT OR DEEP RUST WHEN PLACED IN THE WORK. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 1064. WELDED WIRE FABRIC SHALL BE PLACED 2" FROM TOP OF SLAB, UNLESS INDICATED OTHERWISE.
J. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. TESTS WILL BE PERFORMED ACCORDING TO ACI 301. CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPOSITE SAMPLE FOR EACH DAY'S POUR OF EACH CONCRETE MIX EXCEEDING 5 CU. YD., BUT LESS THAN 25 CU. YD., PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. PERFORM COMPRESSIVE-STRENGTH TESTS ACCORDING TO ASTM C 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTM C 143. PROVIDE ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
K. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION-CONTROL COMPOUND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELLING.
L. LIMIT MAXIMUM WATER-CEMENTITIOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING AND DEICING SALTS TO 0.45.
M. TEST RESULTS WILL BE REPORTED IN WRITING TO THE DESIGN ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH ON SITE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

32 40 00 LANDSCAPING AND SITE STABILIZATION

A. TOPSOIL: CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN A LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL. REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPER FINAL GRADING. LANDSCAPER TO PROVIDE PULVERIZING AND FINAL GRADING OF TOPSOIL. PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL AMENDMENTS. TEST SOIL FOR PRESENCE OF ATRAZINE AND INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 8, CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT, AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH SHALL ALSO BE REMOVED.
   TOPSOIL INSTALLATION: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1" IN DIAMETER. ALSO REMOVE ANY STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD TOPSOIL IF SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN 0.05 FEET OF FINISHED GRADE ELEVATION.
B. SEEDED LAWNS:
   1. PERMANENT LAWN AREAS SHALL BE SEEDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS BLEND (2.0-2.6 LBS./1,000 S.F.), 20% PERENNIAL RYEGRASS (0.6-0.8 LBS./1,000 S.F.), 15% FINE FESCUE (0.4-0.6 LBS/1,000 S.F.). STRAW AND MULCH SHALL BE LAID AT 100LBS/1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS/1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. ALL SITE DISTURBED AREAS NOT DESIGNATED FOR OTHER LANDSCAPING AND SITE STABILIZATION METHODS SHALL BE SEEDED AS PERMANENT LAWN. NO BARE TOPSOIL SHALL BE LEFT ONSITE. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
   2. ALL PERMANENT AND TEMPORARY STORM WATER CONVEYANCE SWALE BOTTOMS AND SIDE SLOPES AS WELL AS STORMWATER MANAGEMENT BASIN BOTTOMS AND SIDE SLOPES SHALL BE SEEDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.60 LBS./1000 S.F.), 40% CREEPING RED FESCUE (0.50 LBS./1,000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LBS./1,000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
   3. ALL TEMPORARY SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 1.9 LBS./1,000 S.F. STRAW AND MULCH SHALL BE LAID AT 100 LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WDNR TECHNICAL STANDARDS 1058 & 1059.
C. SEEDED LAWN MAINTENANCE: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS SHOULD BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. LAWN COVERAGE SHOULD EXCEED 90% AND BARE SPOTS SHOULD NOT EXCEED 5"X5". CONTRACTOR SHOULD REESTABLISH LAWNS THAT DO NOT COMPLY WITH THESE REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.
D. EROSION MATTING:
   1. CONTRACTOR TO PROVIDE EROSION CONTROL MATTING (NORTH AMERICAN GREEN S150) OR EQUIVALENT ON ALL SLOPES THAT ARE 4:1 AND GREATER OUTSIDE OF STORMWATER CONVEYANCE SWALES AND STORMWATER MANAGEMENT BASINS. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
   2. CONTRACTOR TO PROVIDE EROSION MATTING (NORTH AMERICAN GREEN C125) OR EQUIVALENT IN ALL SWALE BOTTOMS AND SIDE SLOPES AS WELL AS STORMWATER MANAGEMENT BASIN BOTTOMS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
E. INFILTRATION BASIN SEEDING: BOTTOM AND SIDE SLOPES OF INFILTRATION BASINS SHALL BE SEEDED WITH A WET PRAIRIE MIX. SEEDING SPECIFICATIONS BY SEED SUPPLIER.
F. RIP RAP: ALL RIP RAP ASSOCIATED WITH STORMWATER MANAGEMENT AND STORMWATER CONVEYANCE, AS DELINEATED ON THE PLANS, SHALL BE CONSTRUCTED WITH THE TOP OF RIP RAP MATCHING THE PROPOSED ADJACENT GRADE ELEVATIONS. PLACEMENT OF RIP RAP ABOVE THE PROPOSED ADJACENT GRADE ELEVATIONS IS NOT ACCEPTABLE. ALL RIP RAP SHALL BE PLACED ON TYPE HR FILTER FABRIC PER SECTION 645 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURAL CONSTRUCTION.
G. TREES AND SHRUBS: FURNISH NURSERY-GROWN TREES AND SHRUBS WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, AND HEALTHY LOOKING STOCK. STOCK SHOULD ALSO BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. SEE THE LANDSCAPE PLAN FOR SPECIFIC SPECIE TYPE, SIZE, AND LOCATION.
H. TREE AND SHRUB INSTALLATION: EXCAVATE CIRCULAR PITS WITH SIDES SLOPED INWARD. TRIM BASE LEAVING CENTER AREA RAISED SLIGHTLY TO SUPPORT ROOT BALL. EXCAVATE PIT APPROXIMATELY THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER. SET TREES AND SHRUBS PLUMB AND IN CENTER OF PIT WITH TOP OF BALL 1" ABOVE ADJACENT FINISHED GRADES. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS AND TAMP TO SETTLE MIX. WATER ALL PLANTS THOROUGHLY. PROVIDE TEMPORARY STAKING FOR TREES AS REQUIRED.
I. TREE AND SHRUB MAINTENANCE/WARRANTY: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. MAINTENANCE TO INCLUDE REGULAR WATERING AS REQUIRED FOR SUCCESSFUL PLANT ESTABLISHMENT. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS.
J. MINERAL MULCH: PROVIDE 3" MINIMUM THICK BLANKET OF 1.5" MINIMUM TO 2.5" MAXIMUM CRUSHED DECORATIVE STONE AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTALL OVER NON-WOVEN WEED BARRIER FABRIC. COLOR BY OWNER.
K. PLASTIC EDGING: INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAWN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWN AREAS. EDGING TO BE 5.5" TALL WITH METAL STAKES INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

32 41 00 FENCE AND GATES

A. FENCE AND GATES: SEE PLANS FOR CHAIN LINK FENCE AND GATE TYPES AND LOCATIONS. PROVIDE AND INSTALL CHAIN LINK FENCE AND GATES IN ACCORDANCE WITH INDUSTRY STANDARDS.
   1. FENCE SHALL BE 8' HIGH GALVANIZED STEEL CHAIN LINK FENCE. CHAIN LINK FABRIC, POSTS, RAILS, BRACES, FITTINGS, HARDWARE, AND ACCESSORIES SHALL BE GALVANIZED STEEL.
   2. UNLESS OTHERWISE SPECIFIED, ALL FENCING WORK SHALL CONFORM TO SECTION 616 OF THE WISDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION.
   3. PROVIDE 20' WIDE MANUAL GALVANIZED CANTILEVER SLIDING GATE AT NORTH LOCATION SHOWN ON PLANS.
B. AUTOMATED SLIDING GATE: CONTRACTOR SHALL PROVIDE 30' WIDE MOTORIZED GALVANIZED CANTILEVER SLIDING GATE AND OPERATOR IN ACCORDANCE WITH UL 325 AND ASTM F2200 AT SOUTH LOCATION SHOWN ON PLANS.
   1. PROVIDE COMPLETE, FULLY FUNCTIONAL SYSTEM INCLUDING OPERATOR, CONTROLS, SAFETY DEVICES, AND ACCESSORIES.
   2. COORDINATE FINAL OPERATOR SELECTION WITH GATE FABRICATOR, ELECTRICAL, ACCESS CONTROL, AND OWNER REQUIREMENTS. REFER TO MOTORIZED SLIDE GATE OPERATORS SPECIFICATION FOR DETAILED OPERATOR REQUIREMENTS.
C. MOTORIZED VEHICULAR GATE SHALL NOT BE USED FOR PEDESTRIAN ACCESS.
   1. PROVIDE SEPARATE PEDESTRIAN GATE AS SHOWN ON PLANS - MINIMUM 10 FEET FROM MOTORIZED VEHICULAR GATE IN ACCORDANCE WITH UL 325.

MOTORIZED SLIDE GATE OPERATORS

A. GENERAL
   1. PROVIDE COMPLETE ELECTRIC OPERATORS FOR VEHICULAR SLIDE GATES INCLUDING OPERATORS, CONTROLS, SAFETY DEVICES, ACCESSORIES, WIRING INTERFACES, STARTUP, TESTING, AND COMMISSIONING.
   2. BASIS OF DESIGN: UL 325 LISTED CONTINUOUS-DUTY ELECTROMECHANICAL GATE OPERATOR SUITABLE FOR COMMERCIAL APPLICATIONS.
B. REFERENCES
   1. UL 325 - DOOR, DRAPERY, GATE, LOUVER, AND WINDOW OPERATORS AND SYSTEMS.
   2. ASTM F2200 - STANDARD SPECIFICATION FOR AUTOMATED VEHICULAR GATE CONSTRUCTION.
   3. NFPA 70 - NATIONAL ELECTRICAL CODE.
C. RELATED DOCUMENTS
   1. SECTION 26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES.
   2. SECTION 28 13 00 - ACCESS CONTROL.
   3. SECTION 28 31 00 - FIRE DETECTION AND ALARM.
   4. DIVISION 32 - BOLLARDS, GATE FABRICATION, TRACK, AND RAIL.
D. PERFORMANCE REQUIREMENTS
   1. PROVIDE OPERATOR LISTED AND RATED FOR THE SPECIFIED GATE TYPE, SIZE, DUTY CYCLE, AND APPLICATION.
   2. OPERATOR SHALL BE RATED FOR CONTINUOUS OUTDOOR OPERATION FROM -30°F TO +120°F.
   3. SIZE OPERATOR WITH A MINIMUM 50 PERCENT RESERVE CAPACITY ABOVE THE ACTUAL GATE WEIGHT.
   4. OPERATOR SELECTION SHALL CONSIDER GATE WEIGHT, GATE LENGTH, WIND LOADING, DUTY CYCLE, AND SITE CONDITIONS.
   5. PROVIDE TYPE 2 SURGE PROTECTION FOR POWER INPUT AND SURGE PROTECTION FOR FIELD WIRING ENTERING THE OPERATOR.
   6. EXTERIOR EQUIPMENT SHALL BE SUITABLE FOR EXPOSURE TO SNOW, ICE, UV, ROAD SALT, AND FREEZE/THAW CONDITIONS.
E. SUBMITTALS
   1. PRODUCT DATA:
      a. GATE OPERATOR, ACCESSORIES, WIRING DIAGRAMS, PERFORMANCE DATA, AND COLD WEATHER ACCESSORIES.
      b. LOOP DETECTORS INCLUDING OPERATING CHARACTERISTICS, FREQUENCY SETTINGS, OPERATING TEMPERATURE RANGE, AND ENVIRONMENTAL COMPENSATION.
      c. PREFORMED LOOPS INCLUDING DIMENSIONS, WIRE SIZE, CONSTRUCTION, AND LEAD-IN LENGTH.
   2. SHOP DRAWINGS INCLUDING OPERATOR LAYOUT, FOUNDATION DETAILS, ELECTRICAL CONNECTIONS, DEVICE LOCATIONS, OPERATOR SIZING, LOOP LOCATIONS, AND LEAD-IN ROUTING.
   3. STARTUP AND COMMISSIONING REPORTS.
   4. CLOSEOUT DOCUMENTATION INCLUDING AS-BUILTS, LOOP LOCATIONS, WIRING DIAGRAMS, O&M MANUALS, WARRANTIES, PROGRAMMING BACKUPS, AND COMMISSIONING REPORTS.
   5. PROVIDE ALL ADMINISTRATOR-LEVEL CREDENTIALS, PASSWORDS, PROGRAMMING BACKUPS, AND COMPLETE PROGRAMMING DOCUMENTATION TO THE OWNER PRIOR TO PROJECT CLOSEOUT.
F. QUALITY ASSURANCE
   1. MANUFACTURER: MINIMUM TEN (10) YEARS EXPERIENCE PRODUCING VEHICULAR GATE OPERATORS.
   2. OPERATOR SHALL BE UL 325 LISTED AND INCLUDE MONITORED ENTRAPMENT PROTECTION DEVICES COMPATIBLE WITH THE OPERATOR.
   3. INSTALLER SHALL BE FACTORY TRAINED FOR THE SPECIFIED EQUIPMENT.
G. WARRANTY
   1. MINIMUM ONE (1) YEAR LABOR AND THREE (3) YEAR EQUIPMENT WARRANTY UNLESS MANUFACTURER STANDARD WARRANTY IS LONGER.
H. MANUFACTURERS
   1. EAGLE ACCESS CONTROL SYSTEMS.
   2. LINEAR PRO ACCESS.
   3. LIFTMASTER COMMERCIAL.
   4. HYSECURITY
   5. DOORKING.
   6. OR APPROVED EQUAL.
I. SLIDE GATE OPERATORS
   1. ELECTROMECHANICAL OPERATOR FOR VEHICULAR SLIDE GATES.
   2. POWER: 208/230V, SINGLE-PHASE, 60 HZ UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE OPERATOR COMPATIBLE WITH AVAILABLE ELECTRICAL SERVICE.
   3. CONTINUOUS-DUTY MOTOR WITH GEAR REDUCTION DRIVE.
   4. DUTY CYCLE: MINIMUM 100 CYCLES PER HOUR.
   5. GATE TRAVEL SPEED SHALL NOT EXCEED 1 FOOT PER SECOND UNLESS APPROVED BY ENGINEER.
   6. GALVANIZED STEEL DRIVE RACK AND MATCHING PINION. COORDINATE WITH GATE FABRICATOR.
   7. MICROPROCESSOR CONTROL BOARD WITH:
      a. SOFT START / SOFT STOP.
      b. ADJUSTABLE FORCE SETTINGS.
      c. AUTO-CLOSE TIMER.
      d. OBSTRUCTION DETECTION WITH AUTOMATIC REVERSAL.
      e. INTERNAL DIAGNOSTICS WITH STATUS INDICATION.
      f. NON-VOLATILE MEMORY FOR PROGRAMMED SETTINGS.
   8. BATTERY BACKUP:
      a. INTEGRAL DC BACKUP SYSTEM.
      b. MINIMUM 4 HOURS OPERATION DURING POWER LOSS.
      c. BATTERY SYSTEM SHALL BE SIZED FOR COLD WEATHER DERATING AT -30°F.
      d. DEFAULT OPERATION: FAIL SECURE.
      e. UPON FIRE ALARM ACTIVATION, GATE SHALL AUTOMATICALLY OPEN USING AVAILABLE NORMAL OR STANDBY POWER. COORDINATE FINAL EMERGENCY OPERATION WITH AHJ.
   9. ENCLOSURE:
      a. NEMA 3R MINIMUM.
      b. NEMA 4X WHERE EXPOSED TO ROAD SALT, DEICING CHEMICALS, OR CORROSIVE ENVIRONMENTS.
      c. HEATER KIT.
      d. COLD WEATHER LUBRICANTS.
      e. EXTERIOR FASTENERS, ANCHORS, WASHERS, AND MOUNTING HARDWARE SHALL BE TYPE 304 STAINLESS STEEL MINIMUM. PROVIDE TYPE 316 STAINLESS STEEL WHERE EXPOSED TO CORROSIVE CHEMICALS OR AGGRESSIVE WASHDOWN ENVIRONMENTS. ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION..
   10. ADJUSTABLE LIMIT SWITCHES OR ROTARY ENCODER POSITION FEEDBACK.
   11. MANUAL RELEASE.
   12. SURGE PROTECTION.
   13. PROVIDE FIVE (5) PROGRAMMED MULTI-BUTTON TRANSMITTERS.
J. SAFETY DEVICES
   1. MONITORED PHOTOELECTRIC SENSORS:
      a. UL 325 COMPLIANT.
      b. MINIMUM 50-FOOT RANGE.
      c. DESIGNED TO MINIMIZE FALSE TRIPS CAUSED BY SNOW, SALT SPRAY, FOG, AND CONDENSATION.
      d. PHOTOELECTRIC SENSORS MOUNTED TO MINIMIZE DAMAGE FROM SNOW REMOVAL OPERATIONS.
   2. MONITORED EDGE DEVICES COMPATIBLE WITH THE OPERATOR AND PROVIDED AS REQUIRED FOR UL 325 ENTRAPMENT PROTECTION.
   3. VEHICLE DETECTION LOOPS:
      a. PREFORMED DIRECT BURIAL LOOPS.
      b. SAW-CUT LOOPS ARE NOT PERMITTED.
      c. SOLID 16 AWG COPPER.
      d. FACTORY-INTEGRAL LEAD-IN.
      e. LEAD-IN SHALL BE CONTINUOUS FROM LOOP TO OPERATOR. SPLICES ARE PROHIBITED.
      f. INSTALL ABOVE REINFORCING STEEL.
      g. EXIT LOOP AND SHADOW LOOP PROVIDED.
      h. COORDINATE LOOP SIZE WITH LANE WIDTH.
      i. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS FOR THE CONDITIONS.
      1). ISOLATE THE LOOP FROM HOT ASPHALT AS REQUIRED BY THE MANUFACTURER.
      j. ACCEPTABLE MANUFACTURER: BD LOOPS OR APPROVED EQUAL.
   4. LOOP DETECTORS:
      a. DIGITAL SINGLE CHANNEL.
      b. 20 TO 2000 MH MINIMUM.
      c. MINIMUM TEN SENSITIVITY SETTINGS.
      d. MINIMUM FOUR SELECTABLE OPERATING FREQUENCIES.
      e. AUTOMATIC ENVIRONMENTAL COMPENSATION.
      f. AUTOMATIC SENSITIVITY BOOST.
      g. INTEGRAL SURGE PROTECTION.
      h. OPERATING TEMPERATURE -40°F TO +180°F.
      i. LOOP FAULT INDICATION.
      j. DEFAULT TO FAIL-SAFE OUTPUT (DETECTOR FAULT PREVENTS GATE CLOSURE).
      k. ACCEPTABLE MANUFACTURER: EMX INDUSTRIES OR APPROVED EQUAL.
   5. WARNING DEVICES:
      a. LED WARNING BEACON DURING GATE MOVEMENT.
      b. AUDIBLE WARNING DEVICE DURING GATE MOVEMENT.
      c. WARNING DEVICES SHALL BE FIELD-CONFIGURABLE FROM WITHIN THE OPERATOR CABINET.
   6. ACCESS CONTROL INTERFACE
      a. COORDINATE CARD READERS, REX DEVICES, INTERCOMS, AND ACCESS CONTROL WITH SECTION 28 13 00.
      b. PROVIDE DRY CONTACT INTERFACE.
   7. COORDINATE EMERGENCY ACCESS DEVICES WITH AHJ.
K. FIRE ALARM INTERFACE
   1. INTERFACE WITH FIRE ALARM SYSTEM PER SECTION 28 31 00.
   2. VERIFY EMERGENCY OPERATION WITH FIRE ALARM CONTRACTOR, ACCESS CONTROL CONTRACTOR, GATE INSTALLER, AND AHJ PRIOR TO COMMISSIONING.
L. COORDINATION
   1. COORDINATE GATE FABRICATOR, OPERATOR MANUFACTURER, ACCESS CONTROL CONTRACTOR, ELECTRICAL CONTRACTOR, AND INSTALLER PRIOR TO EQUIPMENT PROCUREMENT.
   2. COORDINATE OPERATOR POWER REQUIREMENTS WITH DIVISION 26 PRIOR TO ELECTRICAL ROUGH-IN. CHANGES TO VOLTAGE, PHASE, FEEDER SIZE, TRANSFORMER REQUIREMENTS, OR DISCONNECT LOCATION AFTER ROUGH-IN SHALL BE AT THE CONTRACTOR'S EXPENSE.
   3. COORDINATE BOLLARDS, FOUNDATION, TRACK, RACK, AND OPERATOR MOUNTING.
   4. FOUNDATION SHALL ACCOUNT FOR LOCAL FROST DEPTH.
M. EXAMINATION
   1. VERIFY GATE WEIGHT, DIMENSIONS, WIND LOADING, AND DUTY CYCLE.
   2. VERIFY FOUNDATIONS, CONDUITS, AND ELECTRICAL SERVICE.
N. INSTALLATION
   1. INSTALL PER MANUFACTURER REQUIREMENTS AND ASTM F2200.
   2. INSTALL ABOVE ANTICIPATED SNOW ACCUMULATION.
   3. PREVENT STANDING WATER AND ICE AT OPERATOR LOCATION.
   4. PROTECT EQUIPMENT FROM VEHICLE IMPACT AND SNOW PLOW DAMAGE.
   5. PROVIDE 36-INCH MINIMUM SERVICE CLEARANCE.
O. ELECTRICAL CONNECTIONS
   1. PROVIDE FINAL CONNECTIONS FROM THE LOCAL DISCONNECT TO THE OPERATOR AND COORDINATE VOLTAGE, PHASE, FULL-LOAD CURRENT, HEATER LOAD, AND TRANSFORMER REQUIREMENTS PRIOR TO ROUGH-IN..
   2. DIVISION 26 SHALL PROVIDE THE DEDICATED BRANCH CIRCUIT, UNDERGROUND RACEWAY, CONDUCTORS, DISCONNECT SWITCH, GROUNDING, AND BONDING TO THE GATE OPERATOR.
   3. PROVIDE LOW-VOLTAGE CONTROL WIRING TO ALL FIELD DEVICES.
   4. PROVIDE FIRE ALARM INTERFACE WIRING.
   5. TERMINATE AND LABEL ALL CONDUCTORS.
P. FIELD QUALITY CONTROL
   1. VERIFY PROPER OPERATION OF LIMITS, FORCE SETTINGS, SAFETY DEVICES, LOOP DETECTION, WARNING DEVICES, ACCESS CONTROL INTERFACES, BATTERY BACKUP, FIRE ALARM INTERFACE, AND MANUAL RELEASE.
   2. RECORD LOOP INDUCTANCE, DETECTOR FREQUENCY, DETECTOR SENSITIVITY SETTINGS, AND FINAL OPERATOR ADJUSTMENTS.
   3. SUBMIT COMMISSIONING REPORTS DOCUMENTING TESTS RESULTS, MEASUREMENTS, AND FINAL SETTINGS TO THE ENGINEER.
Q. ADJUSTING
   1. ADJUST SPEED, FORCE, TIMING, BATTERY CHARGING, AND SAFETY DEVICES FOR PROPER OPERATION.
R. DEMONSTRATION
   1. DEMONSTRATE SYSTEM OPERATION AND SAFETY DEVICE OPERATION TO THE OWNER.
   2. REVIEW NORMAL OPERATION, EMERGENCY OPERATION, PREVENTIVE MAINTENANCE, AND BASIC TROUBLESHOOTING, AND MANUAL GATE OPERATION.
   3. DELIVER ALL KEYS, SPECIAL TOOLS, PROGRAMMING CREDENTIALS, AND OPERATING DOCUMENTATION AT THE CONCLUSION OF THE DEMONSTRATION.

DIVISION 33 UTILITIES

33 10 00 SITE UTILITIES

A. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY PROPOSED UTILITY ROUTES ARE CLEAR (PER CODE) OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTORS RESPONSIBILITY.
B. CONTRACTOR TO FIELD TELEVISE ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELEVISING SHALL BE COMPLETED TO ENSURE THE EXISTING LATERAL(S) ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVISING OF THESE LATERAL(S) SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVISING
C. ALL SANITARY PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. ALL SANITARY PIPE BELOW PROPOSED & FUTURE BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL. INSULATION SHALL BE PROVIDED PER STATE PLUMBING CODES AS NECESSARY BASED ON PROPOSED DEPTH PER PLANS.
D. CLEANOUTS SHALL BE PROVIDED FOR THE SANITARY & STORM SERVICES AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE SANITARY/STORM SERVICE WITH THE CLEANOUT LEG OF THE COMBINATION WYE FACING STRAIGHT UP. THE CLEANOUT SHALL CONSIST OF A (4" OR 6") VERTICAL PVC PIPE WITH A WATER TIGHT REMOVABLE CLEANOUT PLUG. AN 8" PVC FROST SLEEVE SHALL BE PROVIDED. THE BOTTOM OF THE FROST SLEEVE SHALL TERMINATE 12" ABOVE THE TOP OF THE SANITARY LATERAL OR AT LEAST 6" BELOW THE PREDICTED FROST DEPTH, WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE FROST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN PAVED SURFACES WITH A ZURN (Z-1474-N) HEAVY DUTY CLEANOUT HOUSING PLACED OVER THE TOP OF THE CLEANOUT FLUSH WITH THE SURFACE GRADE. IN PAVED SURFACES, THE FROST SLEEVE SHALL TERMINATE IN A CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES, SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURERS REQUIREMENTS.
E. ALL PROPOSED WATER PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. 6' MINIMUM COVER SHALL BE PROVIDED OVER ALL WATER PIPING UNLESS OTHERWISE SPECIFIED.
F. ALL PROPOSED STORM PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. ALL PROPOSED STORM PIPE BELOW BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE. SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 8' HORIZONTALLY FROM FOUNDATION WALLS.
G. SANITARY, STORM, AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.10' OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY DESIGN PLANS AND STATE REQUIREMENTS.
H. SITE UTILITY CONTRACTOR SHALL RUN SANITARY SERVICE TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN STORM SEWER FOR INTERNALLY DRAINED BUILDINGS TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 6" ABOVE SURFACE GRADE FOR CONNECTION TO DOWNSPOUT FOR ALL DOWNSPOUT TO RISER (DSR) CONNECTIONS. DOWNSPOUTS TO GRADE (DSG) SHALL BE PROVIDED WITH SPLASH BLOCKS AT THE DISCHARGE LOCATION. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUT CONTRACTOR/GC PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERMINE BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION.
I. ALL UTILITIES SHALL BE INSTALLED WITH PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER, OR COPPER COATED STEEL WIRE). PLASTIC WIRE MAY BE TAPED TO PLASTIC WATER OR SEWER PIPE. IF ATTACHED, THE TRACER WIRE SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET. TRACER WIRE SHALL TERMINATE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL/STATE REQUIREMENTS.
J. ALL UTILITIES SHALL BE INSTALLED PER STATE, LOCAL, AND INDUSTRY STANDARDS. WATER, SANITARY, AND STORM SEWER SHALL BE INSTALLED PER "STANDARD SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN". THE EXCEL ENGINEERING DESIGN ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING STATE PLUMBING REVIEW APPROVAL (IF REQUIRED). THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED TO INSTALL WATER, SANITARY AND STORM SEWER.
K. SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS.

CONSTRUCTION SEQUENCE

PHASE	TYPE OF ACTION
1. PRE-CONSTRUCTION ACTION	1. CONTRACTOR TO CALL DIGGERS HOTLINE AT A MINIMUM OF 3 DAYS PRIOR TO CONSTRUCTION.
	2. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES.
	3. PLACE ALL SILT FENCE AND INLET PROTECTION.
	4. CONSTRUCT TRACKING STONE ENTRANCES AND ANY TEMPORARY CONSTRUCTION ROADWAYS AS NEEDED.
	5. CONSTRUCT PERMANENT RETENTION/DETENTION PONDS AND PERMANENT STORMWATER CONVEYANCE SYSTEMS.
	6. CONSTRUCT TEMPORARY SEDIMENT TRAPS, SEDIMENT BASINS, AND ANY TEMPORARY STORMWATER CONVEYANCE SYSTEMS AS NEEDED.
	7. STABILIZE ALL TEMPORARY AND PERMANENT EROSION CONTROL AND STORMWATER CONVEYANCE SYSTEMS BEFORE TOPSOIL CAN BE STRIPPED.
2. CONSTRUCTION ACTION	1. SITE DEMOLITION AS REQUIRED.
	2. STRIP AND RELOCATE TOPSOIL TO THE DESIGNATED TOPSOIL STOCKPILE. LOCATION BY OWNER. FINAL LOCATION BY CONTRACTOR. PROVIDE PERIMETER SILT FENCE UNTIL STABILIZED.
	3. BEGIN MASS EARTH WORK FOR THE BUILDING PAD AND PAVEMENT AREAS.
	4. CONSTRUCT ANY REMAINING STORMWATER CONVEYANCE SYSTEMS, AND INSTALL ALL OTHER UTILITIES ON SITE.
	5. DIG AND POUR ALL BUILDING FOOTINGS.
	6. PLACE GRAVEL FOR ALL PROPOSED PAVEMENT AREAS, INCLUDING FIRE LANES.
	7. TOPSOIL, SEED, AND MULCH ALL DISTURBED AREAS OUTSIDE THE BUILDING AND PROPOSED PAVEMENT AREAS.
	8. CONSTRUCT BUILDING.
	9. PAVE DRIVEWAYS AND PARKING AREAS.
	10. TOPSOIL, SEED, AND MULCH ALL OTHER DISTURBED AREAS. PLACE EROSION MATTING AND RIP RAP.
	11. ONCE SITE IS STABILIZED, CONSTRUCT INFILTRATION BASIN.
3. POST CONSTRUCTION ACTION	1. CONTRACTOR TO REMOVE TEMPORARY EROSION CONTROL MEASURES UPON SITE STABILIZATION.
	2. SEE THE POST CONSTRUCTION MAINTENANCE PLAN FOR PERMANENT STORMWATER MANAGEMENT SYSTEMS.

CONTRACTOR TO FOLLOW THE EROSION CONTROL SPECIFICATIONS FOR CONSTRUCTION EROSION CONTROL INSPECTION AND MAINTENANCE.

TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE

Utility	Material	Pipe Code	Fitting Code	Joint Code	Comments
Water Lateral	C901/906 PE	AWWA C901/C906	ASTM D2609, ASTM D2683, ASTM D3261	Heat fusion: ASTM D2657	≤ 4", DR11 (200 psi), SDR 9 (250 psi), Mechanical push-on and compression joints allowed per DSPS plumbing code.
Combined Domestic/Fire Service	C900 PVC	AWWA C900, ASTM D1785, ASTM D2241	AWWA C110, AWWA C153, ASTM D2464, ASTM D2466, ASTM D2467, ASTM D3311, ASTM F409, ASTM F1336, ASTM F1866	Joint: ASTM D3139 Integral Bell & Spigot Elastomeric Seal: ASTM F477	6"-12", DR18 (235 psi)
Sanitary Sewer	SDR 35 PVC	ASTM D1785, ASTM D2665, ASTM D3034	ASTM F1336	Push On: ASTM D3212 for Tightness Elastomeric Gasket: ASTM F477	4"-15", ≤ 20' deep
Storm Sewer	HDPE	ASTM F2648, ASTM F2306, AASHTO M252, TYPE S (4 IN - 10 IN), AASHTO M294, TYPE S (12 IN - 60 IN)	ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294	Joint: ASTM F2648, ASTM F2306, AASHTO M252, or AASHTO M294 Elastomeric Seal: ASTM F477	
Culvert	HDPE	ASTM F2648	ASTM F2306 Saddle Gasket	Joint: ASTM F2648 Bell & Spigot Elastomeric Seal: ASTM F477	

SHOP DRAWING SUBMITTALS

MATERIAL / INFORMATION

1. 31.10.00 - TELEVISING REPORTS OF EXISTING LATERALS
   - SANITARY
2. 31.20.00 - FILL
   - PRODUCT DATA
   - SOURCE MATERIAL
3. 32.10.00 (A) - AGGREGATE BASE & ASPHALT PAVEMENT
   - HOT MIX ASPHALT SPECIFICATIONS
   - AGGREGATE BASE
   - PAVEMENT MARKINGS
4. 32.20.00-CONCRETE AND AGGREGATE BASE
   - DESIGN MIX
   - AGGREGATE BASE
   - COMPRESSION TEST RESULTS
5. 32.30.00 LANDSCAPING
   - AMENDED SOIL MIX
   - SEEDING PRODUCT DATA
   - PLANTING SUBSTITUTION SCHEDULE
   - MULCH PRODUCT DATA
   - EROSION MATTING
6. 33.10.00 - SITE UTILITIES
   - SANITARY & STORM MANHOLES
   - SANITARY PIPING MATERIALS
   - WATER PIPING MATERIALS
   - WATER FITTINGS & APPURTENANCES
   - STORM PIPING MATERIALS
   - STORM TRENCH DRAINS
   - STORMWATER TREATMENT SHOP DRAWINGS
7. MISCELLANEOUS ITEMS
   - FENCING
   - SITE LIGHTING
   - EXTERIOR SIGNAGE
   - BOLLARDS

CIVIL SPECIFICATIONS

EXCEL
Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

COLLABORATION
Miron
Building Excellence
Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION
PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

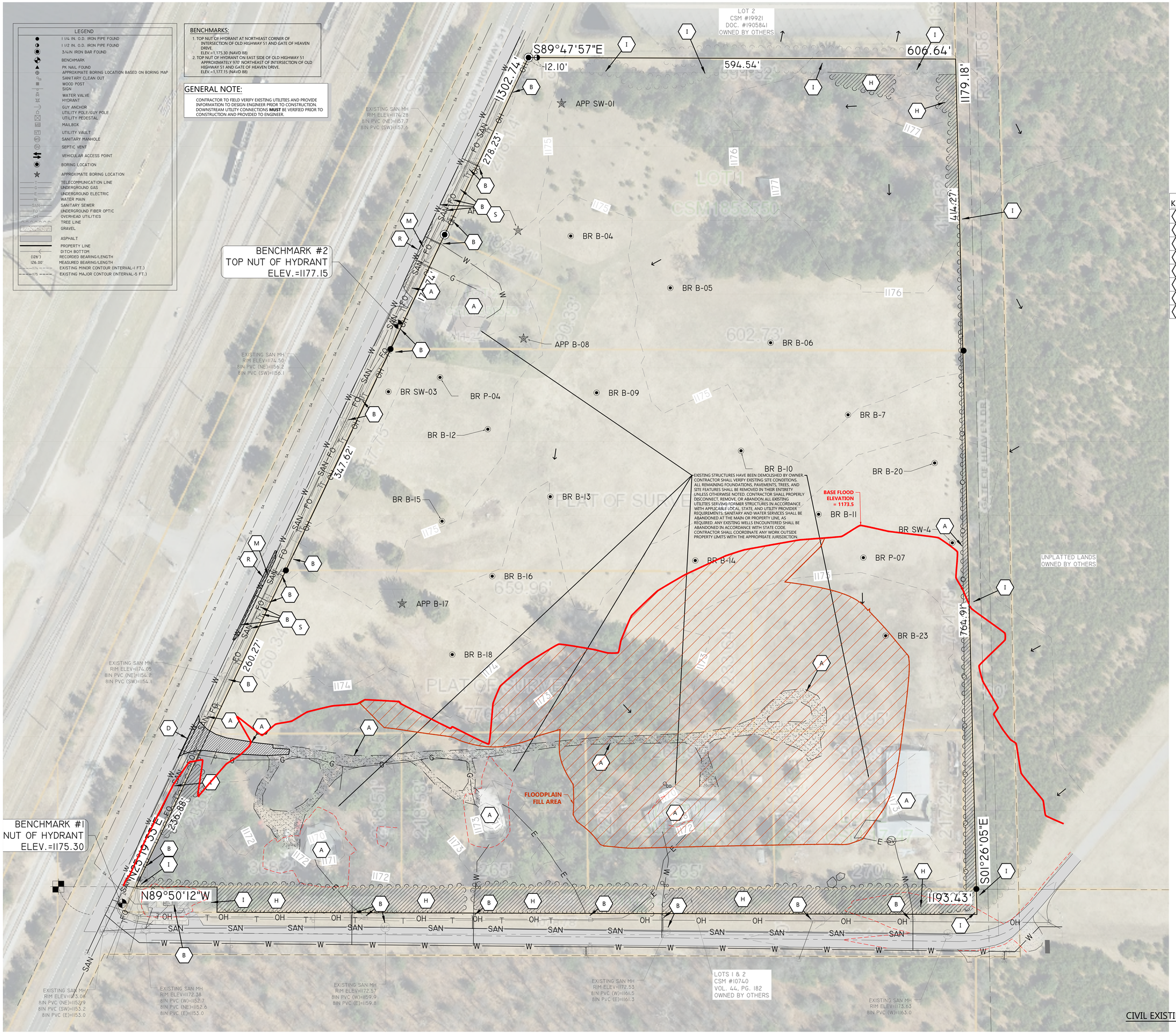
PROFESSIONAL SEAL

PRELIMINARY DATES
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C0.2



SURVEY NOTES:

EXISTING CONDITIONS SURVEY WAS COMPLETED BY REI ENGINEERING, INC. ON OCTOBER 29, 2025. CONTACT REI AT (715) 675-9784 WITH ANY QUESTIONS REGARDING SURVEY OR EXISTING CONDITIONS INFORMATION.

AN UPDATED SURVEY AND TITLE SEARCH HAVE NOT BEEN AUTHORIZED AND THE BOUNDARY AND EASEMENTS SHOWN ON THIS PLAN MAY BE INCOMPLETE OR IN ERROR.

LEGEND:

- REMOVE PAVEMENT & BASE
- REMOVE PAVEMENT, PROTECT BASE
- REMOVE FEATURES

LEGEND:

- FLOODPLAIN FILL (SEE SHEET C1.2 FOR COMPENSATORY STORAGE)

KEYNOTES

A	REMOVE
B	PROTECT
D	SAWCUT (AS NECESSARY) AND REMOVE ASPHALT AND PROTECT BASE
H	REMOVE TREE
I	PROTECT TREE
M	RECYCLE GRAVEL AS NEEDED
R	REMOVE 2' OF ASPHALT
S	CONTRACTOR TO MAINTAIN 18" COVER DURING EXCAVATION & VERIFY DEPTH OF FACILITIES DURING EXCAVATION.

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MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

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MAR. 27, 2026
APR. 15, 2026
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JULY 23, 2026

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250008600

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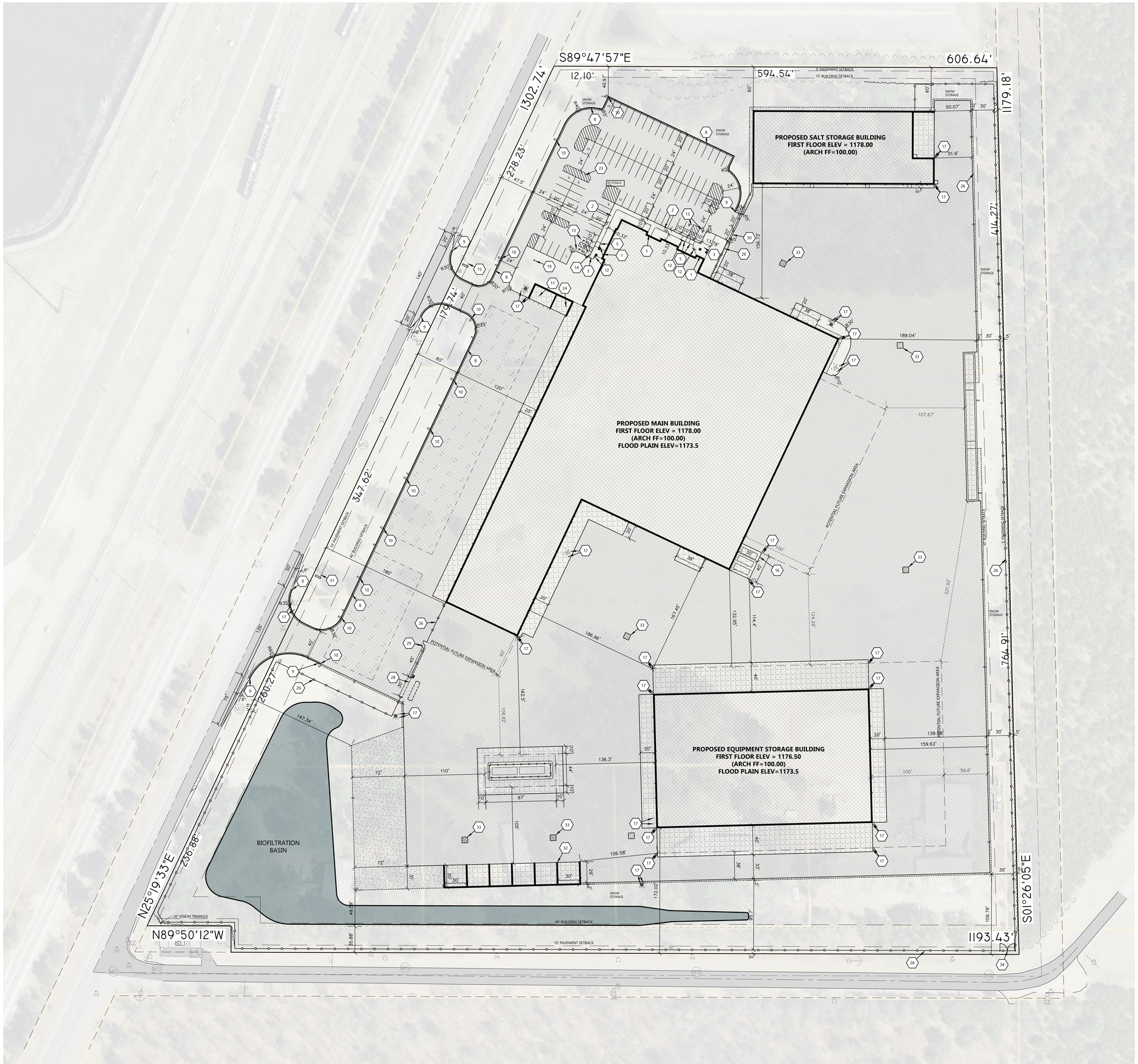

LEGEND:

HATCH	PAVEMENT SECTION	HATCH	PAVEMENT SECTION
	STANDARD ASPHALT		HEAVY DUTY CONCRETE
	HEAVY DUTY ASPHALT		GRAVEL
	SIDEWALK CONCRETE		CANOPY

KEYNOTES

1	CONCRETE STOOP (SEE STRUCTURAL PLANS FOR DETAILS)
2	RAISED WALK (SEE DETAIL)
3	FLUSH WALK (SEE DETAIL)
5	CURB RAMP (SEE DETAIL)
8	24" MOUNTABLE CURB (2" TALL) & GUTTER (SEE DETAIL)
9	CURB TAPER (SEE DETAIL)
10	CURB CUT (SEE DETAIL)
11	TRANSFORMER LOCATION
12	HANDICAP SIGN PER STATE CODE (SEE DETAIL) FURNISHED BY OWNER
13	HANDICAP STALL & STRIPING PER STATE CODES
14	PRECAST CONCRETE WHEEL STOP (TYP.)
15	MONUMENT SIGN BY OWNER (FINAL DESIGN DETAILS, LOCATION, & APPROVAL BY OWNER)
16	WASTE ENCLOSURE LOCATION CONCRETE PAD FOR (3) 40 YARD DUMPSTERS
17	6" CONCRETE BOLLARDS (TYP.) (SEE ARCH PLANS FOR DETAILS)
19	FLAGPOLE, 35' (TYP.)
23	PAINT STRIPING (TYP). COLOR TO MATCH PARKING STALL STRIPING
24	GENERATOR LOCATION
26	8' HIGH GALVANIZED CHAINLINK FENCE
28	30' AUTOMATED CANTILEVER SLIDE GATE (INSIDE FENCE). GATE SHALL MATCH HEIGHT AND MATERIAL OF ADJACENT FENCE. CONTRACTOR TO PROVIDE CONDUIT STUBBED TO GATE FOR MOTORIZED OPERATION (SEE ELEC. PLANS) GATE OPERATOR SHALL HAVE A CLUTCH RELEASE FOR MANUALLY OPENING THE GATE. PROVIDE FIRE DEPT LOCK BOX AS REQUIRED. SEE SPECIFICATIONS FOR GATE OPERATOR REQUIREMENTS, VEHICLE DETECTION LOOP LOCATION AND PLACEMENT SHALL BE BY GATE CONTRACTOR.
29	MAN GATE LOCATION - PROVIDE SEPARATE PEDESTRIAN GATE IN ACCORDANCE WITH UL 325. COORDINATE LOCKING HARDWARE AND ACCESS CONTROL REQUIREMENTS WITH OWNER.
30	20' MANUAL CANTILEVER SLIDING GATE
31	DIRECTIONAL SIGNAGE BY OWNER
32	CONCRETE PAD FOR BUNKER AREA CONCRETE BLOCK RETAINING WALL BINS BY OWNER
33	8'x8' CONCRETE AROUND STORM STRUCTURES WITH VERTICAL PAVEMENT JOINT (6" CONCRETE)
34	20' EMERGENCY GATE

SCALE: 1"= 50'

NORTH

CIVIL SITE PLAN

EXCEL

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NOV. 26, 2025
DEC. 12, 2025
JAN. 9, 2026
FEB. 6, 2026
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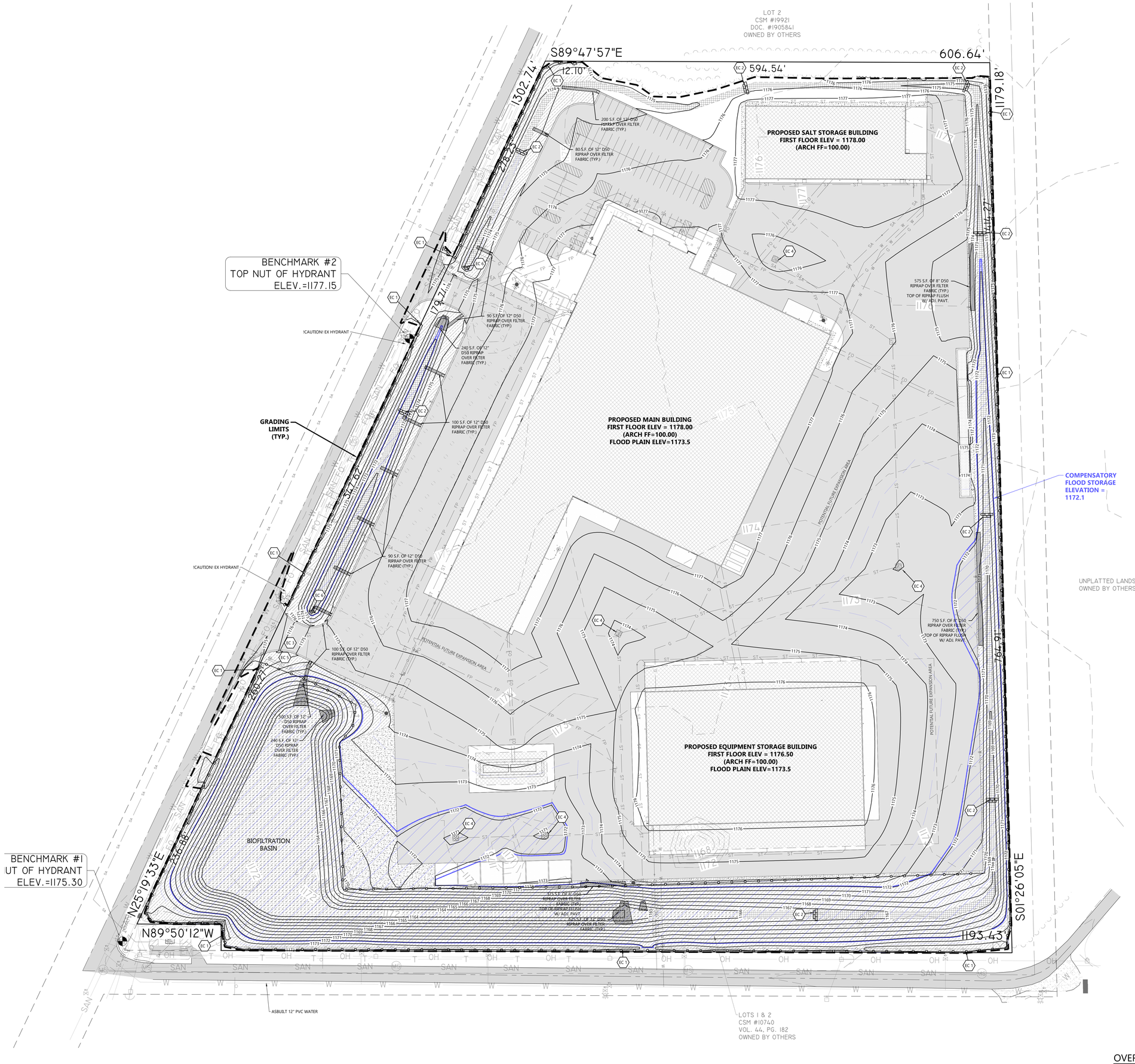
SHEET NUMBER

C1.1



GENERAL NOTES:

- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION).
- ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.
- CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ONSITE & OFFSITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.
- ALL EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH SPECIFICATIONS ON SHEET C0.2. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM SEDIMENT BARRIERS WHEN DEPOSITS REACH ONE-HALF THE EFFECTIVE HEIGHT OF THE BARRIER. DAMAGED BMPS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- COMPENSATORY FLOODPLAIN STORAGE AREA SHOWN. STORAGE PROVIDED WITHIN THE PROPOSED BIORETENTION BASIN BETWEEN THE CALCULATED 100-YEAR WATER SURFACE ELEVATION AND SPILLWAY ELEV. 1172.1 TOTALS 494,086 CU. FT., EXCEEDING THE EXISTING FLOODPLAIN STORAGE VOLUME OF 282,933 CU. FT. BY 211,153 CU. FT. REFER TO THE STORMWATER MANAGEMENT REPORT AND APPENDIX J FOR ADDITIONAL INFORMATION AND CALCULATIONS.

KEYNOTES

EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	CONCRETE WASHOUT
EC 6	SEDIMENT LOG

HATCH KEY:

HATCH	LANDSCAPE MATERIAL
	EROSION MATTING (NAG C125) OVER SEEDED LAWN (SWALE BOTTOMS & SWM)
	EROSION MATTING (NAG S150) OVER SEEDED LAWN (> OR = 4:1 SLOPES OUTSIDE OF SWM)
	BIOFILTER SEEDING

LEGEND:

FLOODPLAIN COMPENSATORY STORAGE

SCALE: 1"= 50'
50' 0 50' 100'
NORTH

OVERALL CIVIL GRADING AND EROSION CONTROL PLAN

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920-926-9800
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COLLABORATION
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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

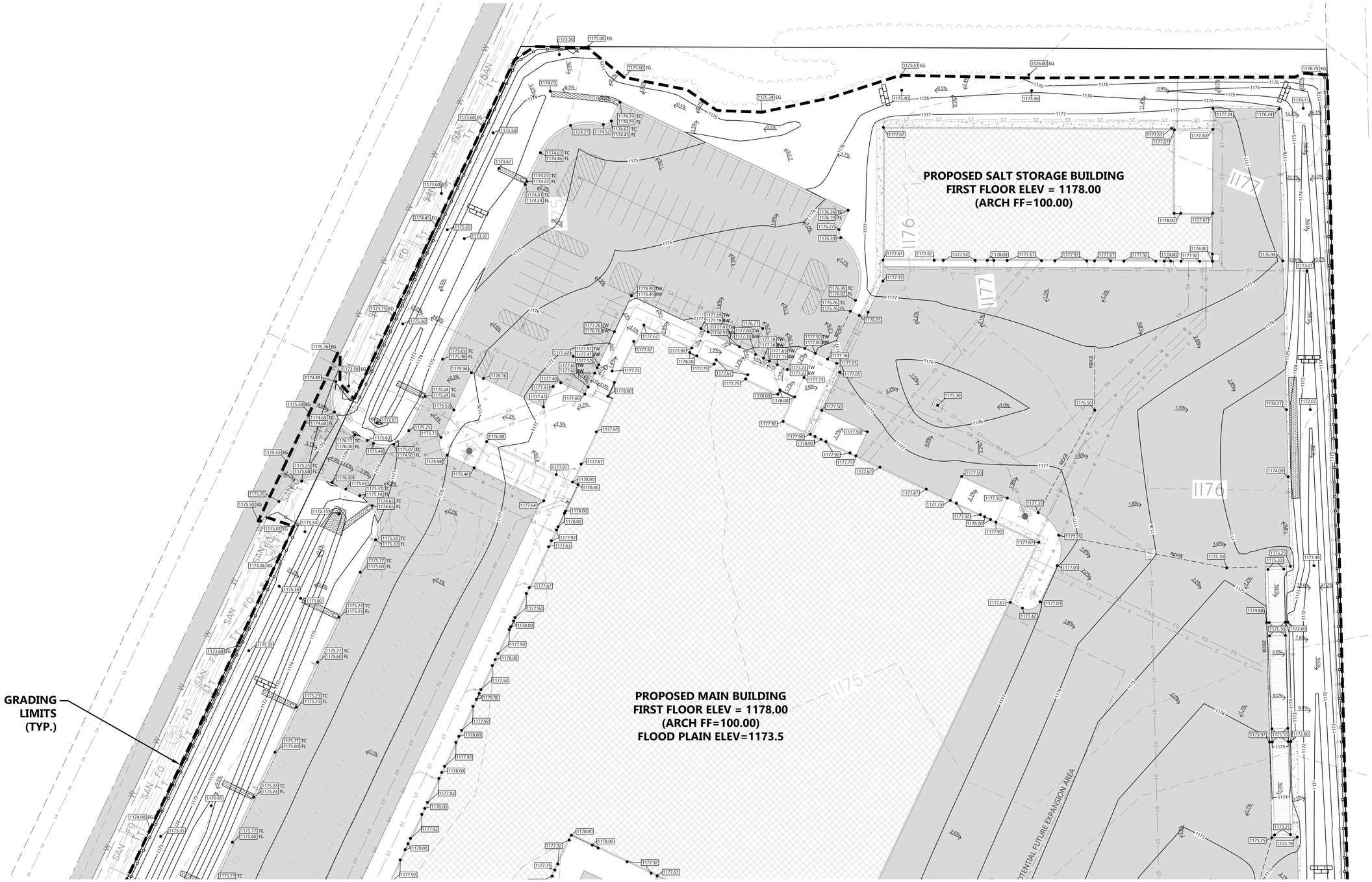
PROFESSIONAL SEAL

PRELIMINARY DATES
MAR. 9, 2026
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C1.2



SCALE: 1" = 30'
30' 0 30' 60'
NORTH

CIVIL GRADING AND EROSION CONTROL PLAN NORTH

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JOB NUMBER
250008600

SHEET NUMBER
C1.2A

GRADING LIMITS (TYP.)

PROPOSED MAIN BUILDING
FIRST FLOOR ELEV = 1178.00
(ARCH FF=100.00)
FLOOD PLAIN ELEV=1173.5

PROPOSED EQUIPMENT STORAGE BUILDING
FIRST FLOOR ELEV = 1176.50
(ARCH FF=100.00)
FLOOD PLAIN ELEV=1173.5

POTENTIAL FUTURE EXPANSION AREA

BIOFILTRATION BASIN

SCALE: 1" = 30'
30' 0 30' 60'
NORTH

CIVIL GRADING AND EROSION CONTROL PLAN SOUTH

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PROFESSIONAL SEAL

PRELIMINARY DATES
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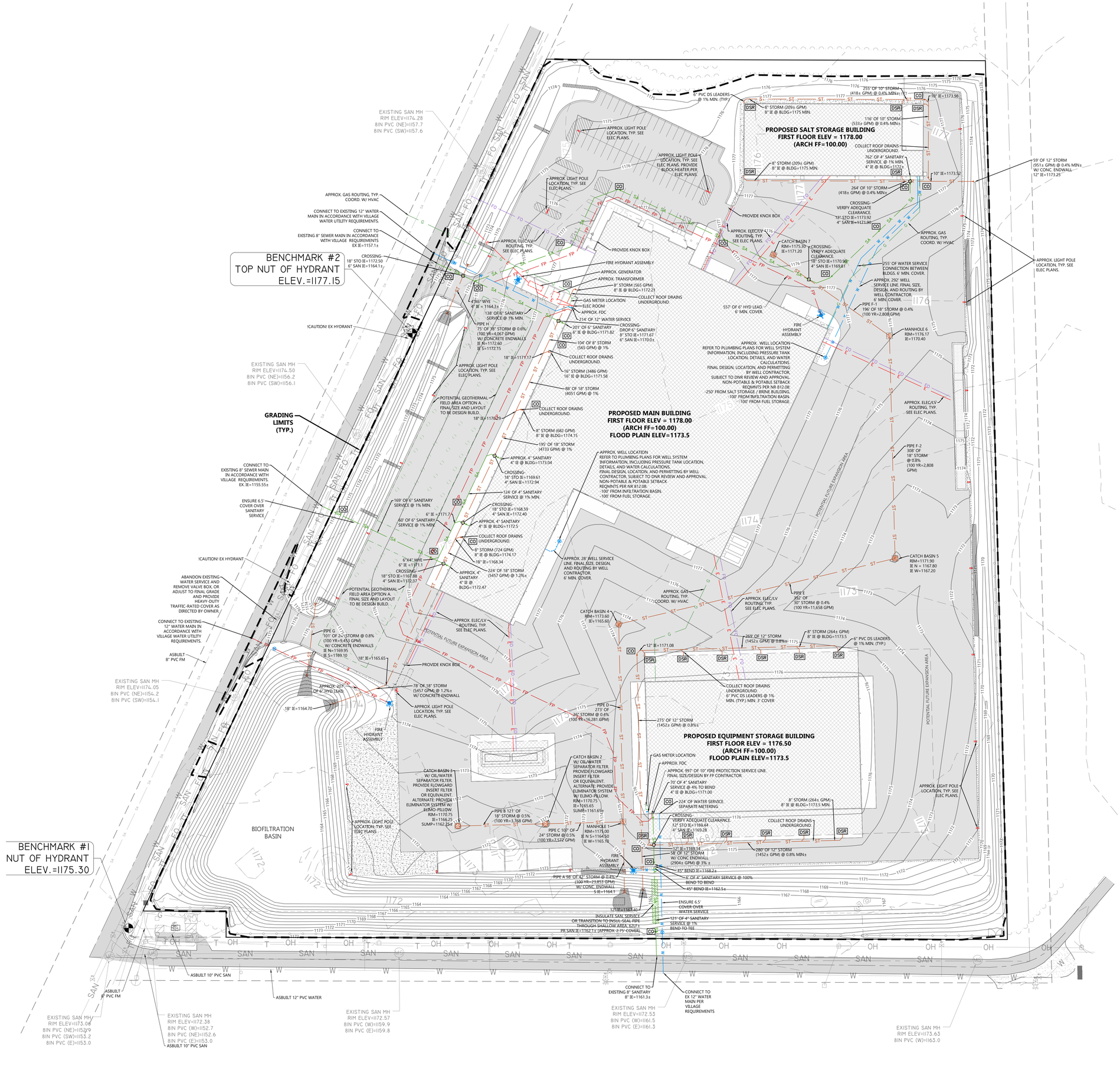
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C1.2B



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MAR. 27, 2026
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JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C1.3

OVERALL PLANT SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	POINTS	TOTAL POINTS	PLANTED SIZE	ROOT
LARGE DECIDUOUS TREES							
	Hackberry	Celtis occidentalis	2	125	250	2" CAL.	B&B
	Espresso Kentucky Coffeetree	Gymnocladus diocia 'Espresso-JFS'	3	125	375	2" CAL.	B&B
SMALL DECIDUOUS TREES							
	Winter King Hawthorn	Crataegus viridis 'Winter King'	2	60	120	1 1/2" CAL.	B&B
EVERGREEN TREES							
	Eastern Red Cedar	Juniperus virginiana	26	50	1,300	6' HT.	B&B
	Eastern White Pine	Pinus strobus	29	50	1,450	6' HT.	B&B
DECIDUOUS SHRUBS							
	Jewel Bush Honeysuckle	Diervilla lonicera 'Jewel'	10	20	200	5' HT.	B&B
	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	12	20	240	5' HT.	B&B
	Amber Jubilee Ninebark	Physocarpus opulifolius 'Jefam'	9	20	180	5' HT.	B&B
EVERGREEN SHRUBS							
	Densi Yew	Taxus x media 'Densiformis'	16	20	320	36" HT.	CONT.
PERENNIALS							
	Cat's Pajamas Catmint	Nepeta 'Cat's Pajamas'	20	4	80	1 GAL.	CONT.

LANDSCAPING CALCULATIONS

ZONE	REQ. PLANTS	PLANTS PROVIDED
HARD AND GRAVEL SURFACED AREAS	- 100 POINTS OF LANDSCAPING SHALL BE PLANTED FOR EACH 2,500 SF OF HARD AND GRAVEL SURFACED AREA - PLANTS SHALL BE INSTALLED WITHIN 15' OF SURFACED AREAS AND SHALL INCLUDE LARGE DECIDUOUS TREES 581,256/2,500 X 100 = 23,250.2 POINTS	3,495 POINTS SUPPLEMENTED BY EXISTING TREES PLANTS INSTALLED FARTHER AWAY TO ACCOUNT FOR SNOW STORAGE
FOUNDATION	- 100 POINTS OF LANDSCAPE PER 200 LF OF EXTERIOR BUILDING WALL THAT IS VISIBLE FROM PUBLIC R.O.W OR RESIDENTIAL ZONES - PLANTS SHALL BE INSTALLED WITHIN 20' OF BUILDING AND SHALL NOT INCLUDE LARGE DECIDUOUS TREES 1,703/200 X 100 = 851.5 POINTS	940 POINTS PROVIDED AROUND MAIN ENTRY
GENERAL YARD	- 100 POINTS OF LANDSCAPE PER 5,000 SF OF TOTAL LOT AREA EXCLUDING AREAS UNDER ROOFTOP, HARD SURFACED AREA, REQUIRED BUFFER YARDS, OR FUTURE PHASES OF DEVELOPMENT - LANDSCAPING IN THIS SECTION SHALL BE PLACED TO MAXIMIZE VISUAL IMPACT (SUCH AS STREET YARDS) 299,776/5,000 X 100 = 5,995.5 POINTS	USING EXISTING TREES ALONG NORTH LOT LINE TO MEET REQUIREMENTS
EXISTING PLANT MATERIALS	- HEALTHY PLANT MATERIALS OF ACCEPTABLE SPECIES MAY ALLOW CREDIT FOR SUCH MATERIAL OUR SOLUTION FOR ESTIMATING: EXISTING PLANT MATERIAL TYPE CHOSEN BY MAJORITY SPECIES. QUANTITY ESTIMATED BY DIVIDING TOTAL AREA BY MATURE SIZE AND THEN MULTIPLYING BY 1.5 TIMES INSTALLED POINT VALUE TO ESTIMATE TOTAL POINTS	MAJORITY SEEMS TO BE EVERGREEN VARIETIES. ESTIMATING 25' MATURE SIZE 10,442.8/25 x 75 = 31,328.4 POINTS

GENERAL NOTES:

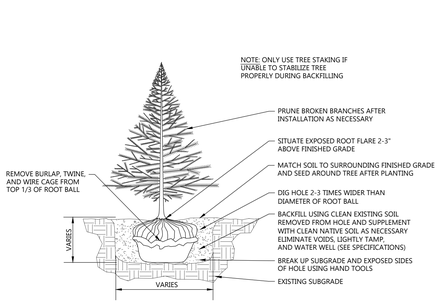
- SEE SHEET C0.2 FOR LANDSCAPE SPECIFICATIONS.
- ALL BARE DISTURBED SOIL OUTSIDE OF MULCH AREAS TO BE SEEDED.

HATCH KEY:

HATCH	LANDSCAPE MATERIAL
	STONE MULCH
	SEEDED LAWN

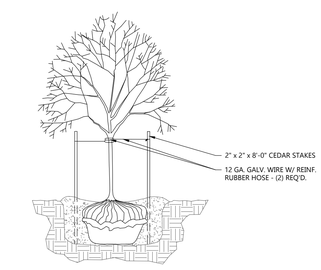
DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE



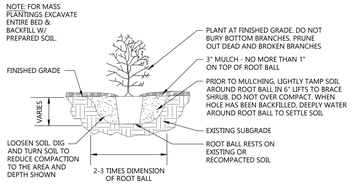
EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE



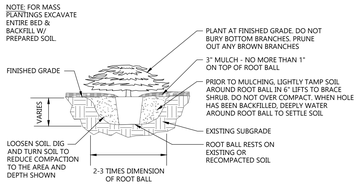
DECIDUOUS TREE STAKING DETAIL

NOT TO SCALE



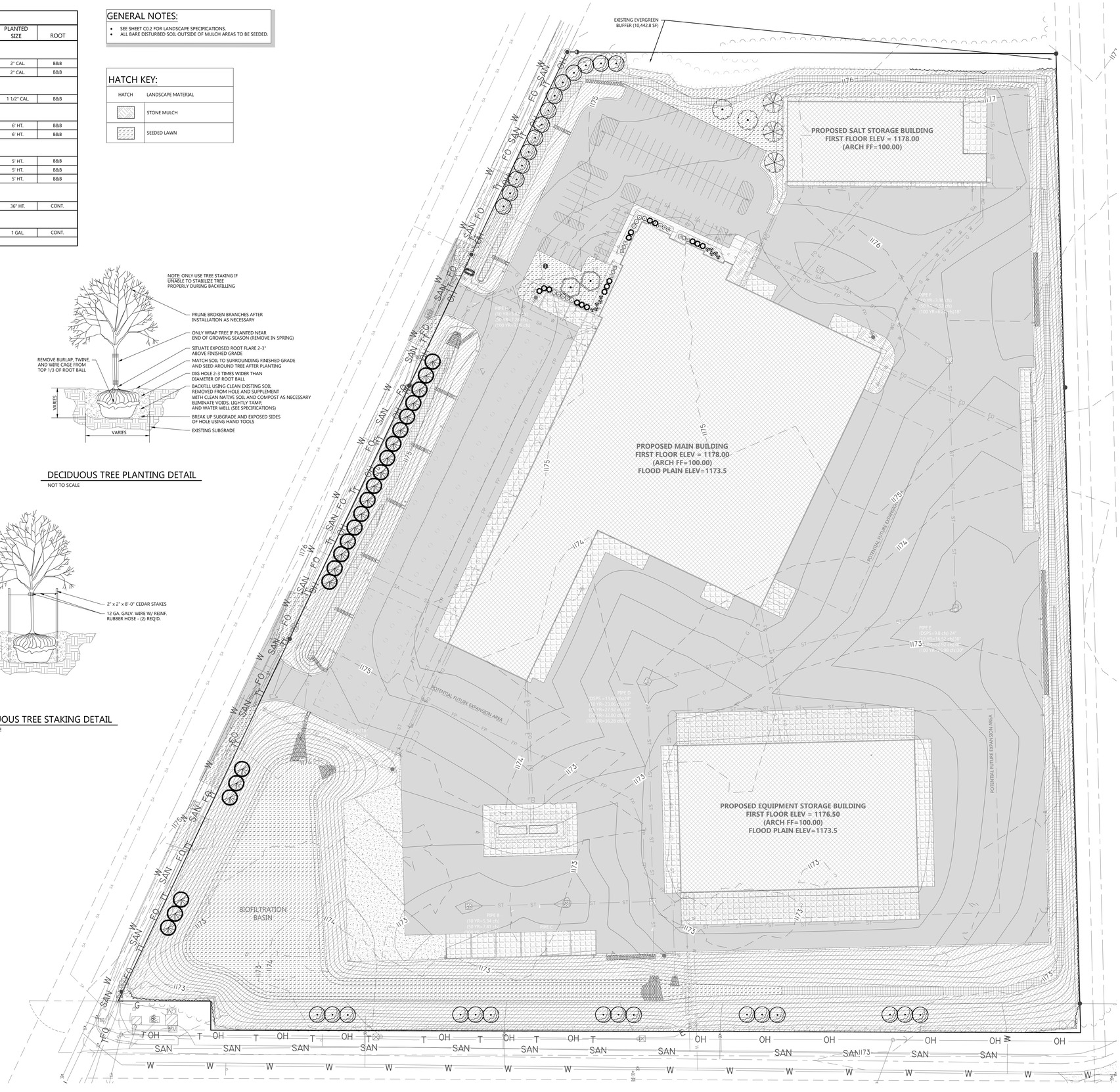
DECIDUOUS SHRUB PLANTING DETAIL

NOT TO SCALE



EVERGREEN SHRUB PLANTING DETAIL

NOT TO SCALE



CIVIL LANDSCAPE AND RESTORATION PLAN

SCALE: 1" = 50'

50' 0 50' 100'

NORTH

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OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES

JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER

250008600

SHEET NUMBER

C1.4

OVERALL PLANT SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	POINTS	TOTAL POINTS	PLANTED SIZE	ROOT
LARGE DECIDUOUS TREES							
	Hackberry	Celtis occidentalis	2	125	250	2" CAL.	B&B
	Espresso Kentucky Coffeetree	Gymnocladus dioica 'Espresso-JFS'	3	125	375	2" CAL.	B&B
SMALL DECIDUOUS TREES							
	Winter King Hawthorn	Crataegus viridis 'Winter King'	2	60	120	1 1/2" CAL.	B&B
EVERGREEN TREES							
	Eastern Red Cedar	Juniperus virginiana	26	50	1,300	6' HT.	B&B
	Eastern White Pine	Pinus strobus	29	50	1,450	6' HT.	B&B
DECIDUOUS SHRUBS							
	Jewel Bush Honeysuckle	Diervilla lonicera 'Jewel'	10	20	200	5' HT.	B&B
	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	12	20	240	5' HT.	B&B
	Amber Jubilee Ninebark	Physocarpus opulifolius 'Jefam'	9	20	180	5' HT.	B&B
EVERGREEN SHRUBS							
	Densi Yew	Taxus x media 'Densiformis'	16	20	320	36" HT.	CONT.
PERENNIALS							
	Cat's Pajamas Catmint	Nepeta 'Cat's Pajamas'	20	4	80	1 GAL.	CONT.

LANDSCAPING CALCULATIONS

ZONE	REQ. PLANTS	PLANTS PROVIDED
HARD AND GRAVEL SURFACED AREAS	- 100 POINTS OF LANDSCAPING SHALL BE PLANTED FOR EACH 2,500 SF OF HARD AND GRAVEL SURFACED AREA - PLANTS SHALL BE INSTALLED WITHIN 15' OF SURFACED AREAS AND SHALL INCLUDE LARGE DECIDUOUS TREES 581,256/2,500 X 100 = 23,250.2 POINTS	3,495 POINTS SUPPLEMENTED BY EXISTING TREES PLANTS INSTALLED FARTHER AWAY TO ACCOUNT FOR SNOW STORAGE
FOUNDATION	- 100 POINTS OF LANDSCAPE PER 200 LF OF EXTERIOR BUILDING WALL THAT IS VISIBLE FROM PUBLIC R.O.W OR RESIDENTIAL ZONES - PLANTS SHALL BE INSTALLED WITHIN 20' OF BUILDING AND SHALL NOT INCLUDE LARGE DECIDUOUS TREES 1,703/200 X 100 = 851.5 POINTS	940 POINTS PROVIDED AROUND MAIN ENTRY
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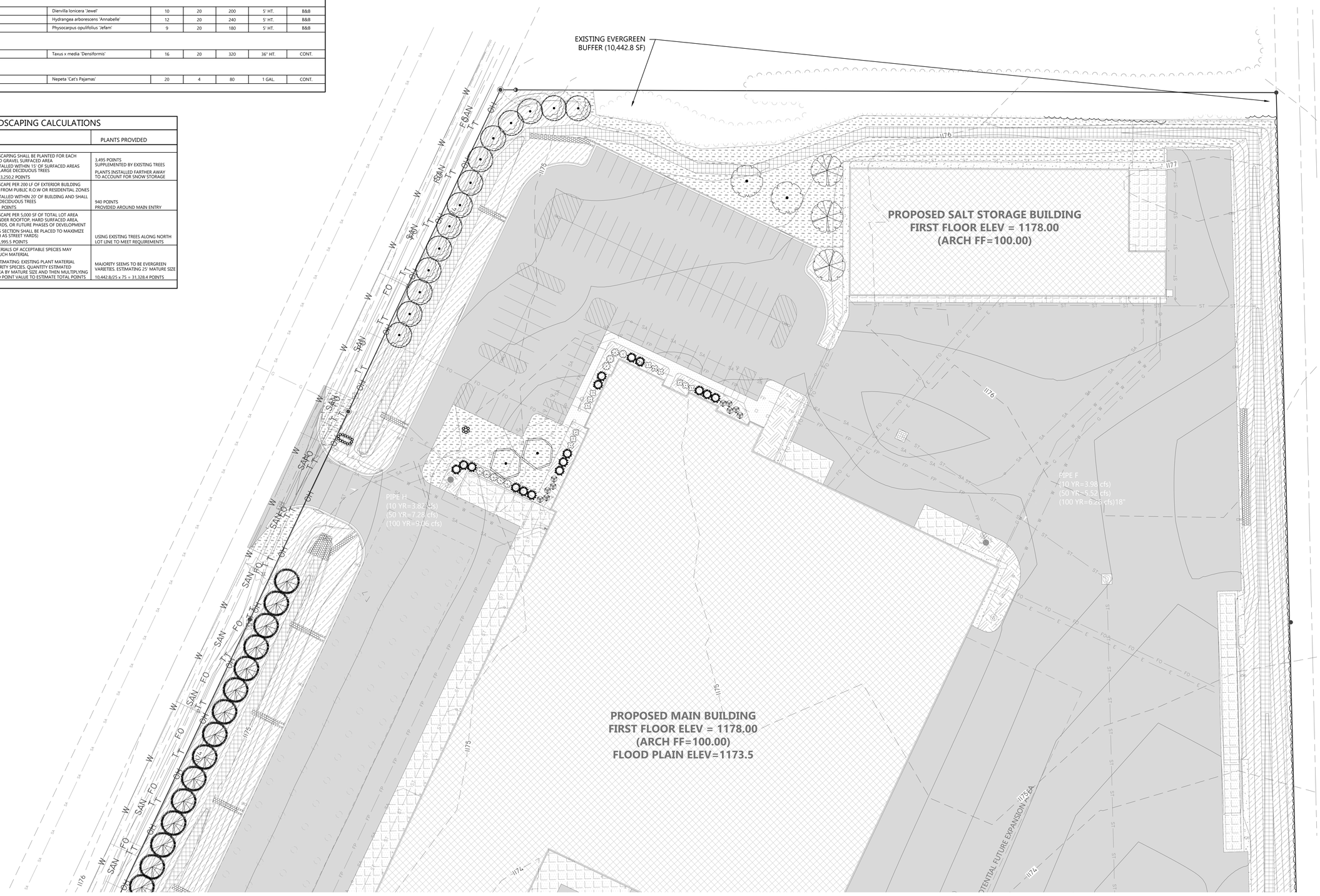
GENERAL NOTES:

- SEE SHEET C0.2 FOR LANDSCAPE SPECIFICATIONS.
- ALL BARE DISTURBED SOIL OUTSIDE OF MULCH AREAS TO BE SEEDED.

HATCH KEY:

HATCH	LANDSCAPE MATERIAL
	STONE MULCH
	SEEDED LAWN



SCALE: 1" = 30'
30' 0 30' 60'
NORTH

CIVIL LANDSCAPE AND RESTORATION PLAN NORTH

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PROJECT INFORMATION

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OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C1.4A

PROPOSED MAIN BUILDING
FIRST FLOOR ELEV = 1178.00
(ARCH FF=100.00)
FLOOD PLAIN ELEV=1173.5

PROPOSED EQUIPMENT STORAGE BUILDING
FIRST FLOOR ELEV = 1176.50
(ARCH FF=100.00)
FLOOD PLAIN ELEV=1173.5

POTENTIAL FUTURE EXPANSION AREA

POTENTIAL FUTURE EXPANSION AREA

POTENTIAL FUTURE EXPANSION AREA

PIPE D
(DSPS =13.68 cfs)24"
(10 YR=23.06 cfs)30"
(25 YR=27.92 cfs)30"
(50 YR=32.00 cfs)36"
(100 YR=36.28 cfs)36"

PIPE E
(DSPS=9.8 cfs) 24"
(10 YR=16.52 cfs)30"
(25 YR=22.92 cfs)30"
(100 YR=25.98 cfs)30"

PIPE B
(10 YR=5.34 cfs)
(50 YR=7.41 cfs)
(100 YR=8.40 cfs)

PIPE C

BIOFILTRATION
BASIN

SCALE: 1" = 30'
30' 0 30' 60'
NORTH

CIVIL LANDSCAPE AND RESTORATION PLAN SOUTH

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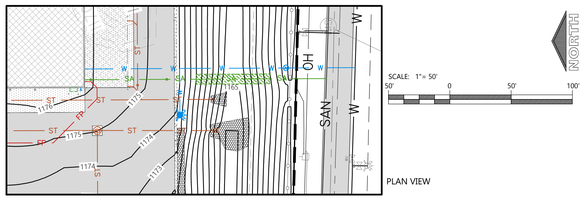
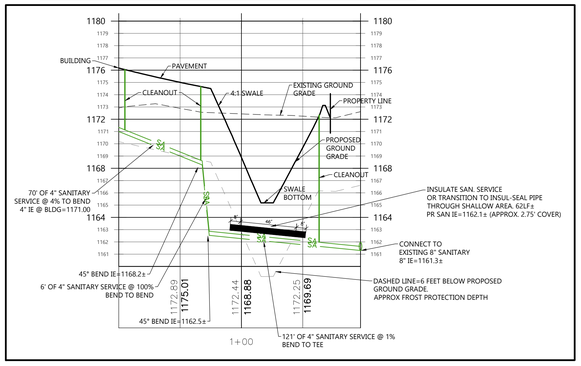
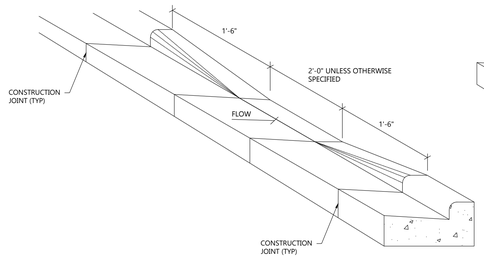


PLAN VIEW



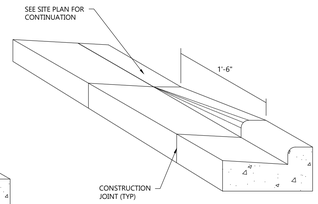
SANITARY INSULATION CROSS SECTION

NOT TO SCALE



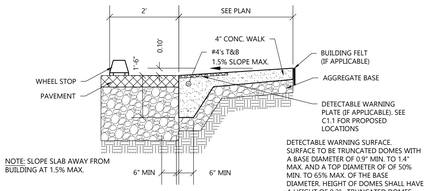
CURB CUT DETAIL

NOT TO SCALE



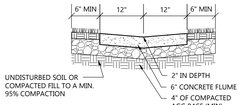
CURB TAPER DETAIL

NOT TO SCALE



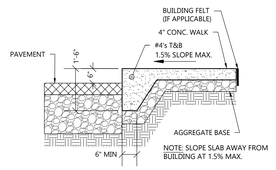
FLUSH WALK DETAIL

NOT TO SCALE



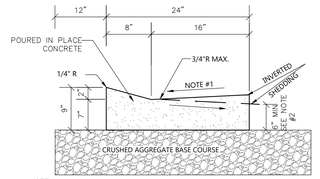
CONCRETE FLUME DETAIL (LAWN)

NOT TO SCALE



RAISED WALK DETAIL

NOT TO SCALE

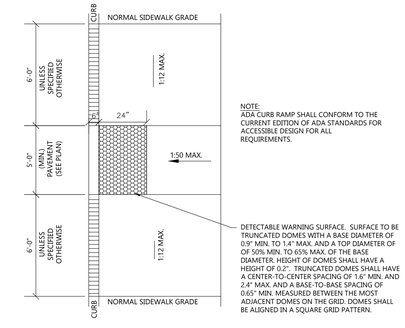


NOTE:

1. USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
2. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MIN. GUTTER THICKNESS IS MAINTAINED.
3. SEE SITE PLAN & GRADING PLAN FOR INVERTED & SHEDDING CURB LOCATIONS

24" MOUNTABLE CURB & GUTTER DETAIL

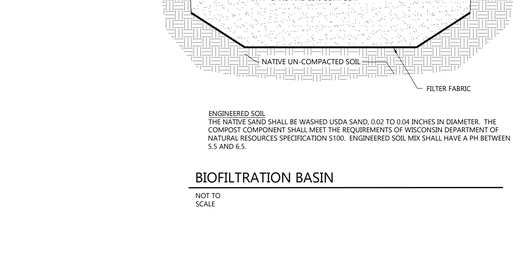
NO SCALE



PLAN

ADA SIDEWALK RAMP DETAIL

NOT TO SCALE

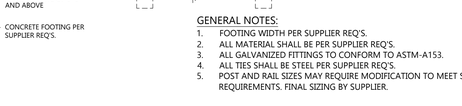


MAX PONDING ELEVATIONS:
1 YEAR, 24-HOUR=1164.72
2 YEAR, 24-HOUR=1165.00
10 YEAR, 24-HOUR=1165.97
25 YEAR, 24-HOUR=1166.62
100 YEAR, 24-HOUR=1167.66

ENGINEERED SOIL
THE NATIVE SAND SHALL BE WASHED USDA SAND, 0.02 TO 0.04 INCHES IN DIAMETER. THE COMPOST COMPONENT SHALL MEET THE REQUIREMENTS OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES SPECIFICATION 5100. ENGINEERED SOIL MIX SHALL HAVE A PH BETWEEN 5.5 AND 6.5.

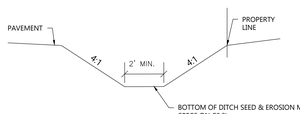
BIOFILTRATION BASIN

NOT TO SCALE



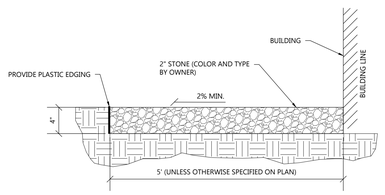
WEST SWALE X-SECTION

NOT TO SCALE



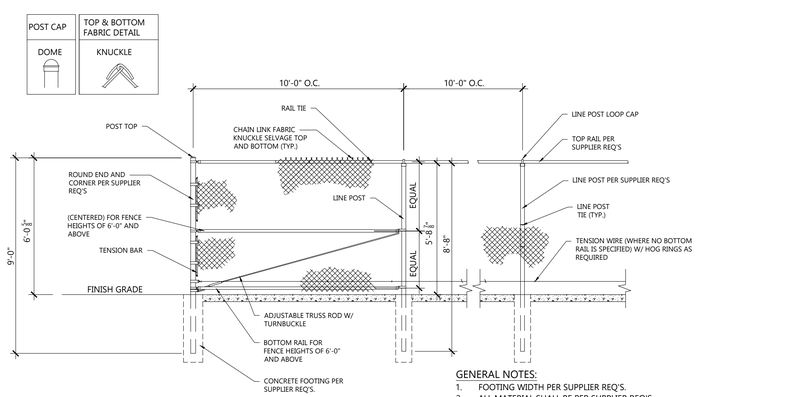
EAST SWALE X-SECTION

NOT TO SCALE



STONE STRIP DETAIL

NOT TO SCALE

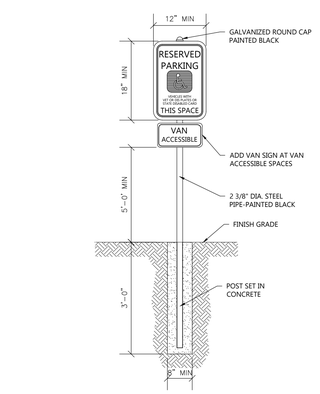


GENERAL NOTES:

1. FOOTING WIDTH PER SUPPLIER REQ'S.
2. ALL MATERIAL SHALL BE PER SUPPLIER REQ'S.
3. ALL GALVANIZED FITTINGS TO CONFORM TO ASTM-A153.
4. ALL TIES SHALL BE STEEL PER SUPPLIER REQ'S.
5. POST AND RAIL SIZES MAY REQUIRE MODIFICATION TO MEET SPECIFIC PROJECT REQUIREMENTS. FINAL SIZING BY SUPPLIER.

6' HIGH CHAINLINK FENCE DETAIL

NOT TO SCALE



HANDICAP SIGNAGE WITH CONCRETE BASE DETAIL

NOT TO SCALE

CIVIL DETAILS

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100 Camelot Drive
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920-926-9800
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COLLABORATION
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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

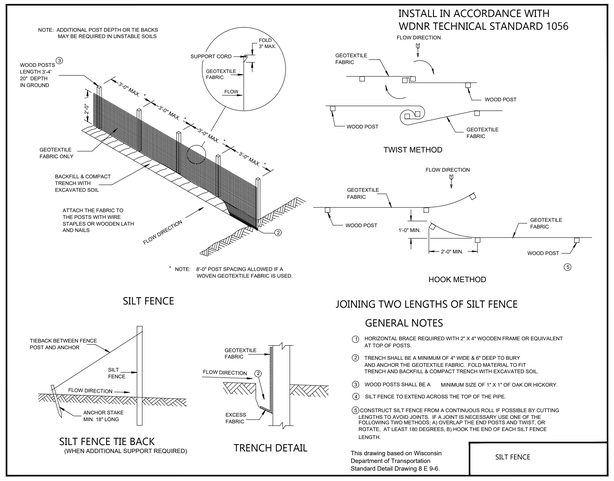
PROFESSIONAL SEAL

PRELIMINARY DATES
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

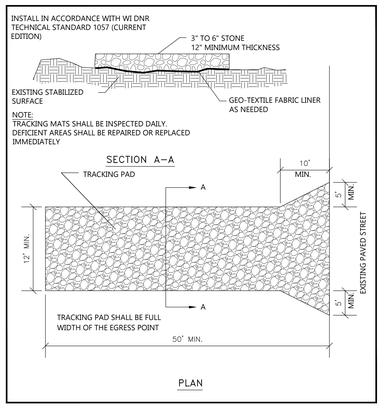
NOT FOR CONSTRUCTION

JOB NUMBER
250008600

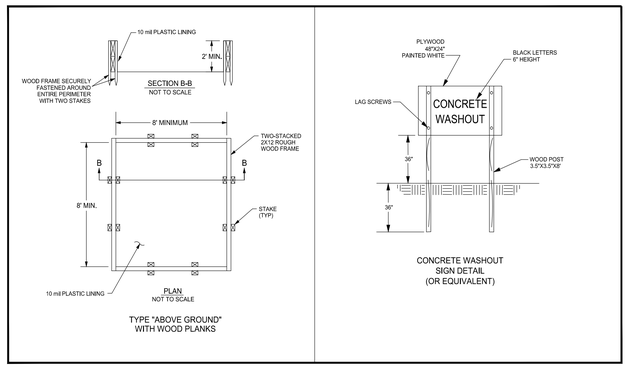
SHEET NUMBER
C2.0



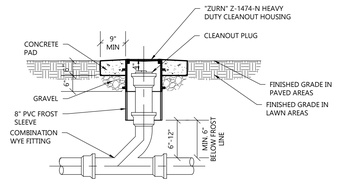
SILT FENCE - INSTALLATION DETAIL
NOT TO SCALE



TRACKPAD DETAILS
NOT TO SCALE



CONCRETE WASHOUT DETAIL
NOT TO SCALE



CLEANOUT TO GRADE DETAIL
NOT TO SCALE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARD NO. 1053 (CHANNEL EROSION MAT).

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON SHALL BE PERMITTED IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

LAP JOINTS SHALL NOT BE PLACED IN THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING SHALL BE STAGGERED A MINIMUM OF 4 FEET APART.

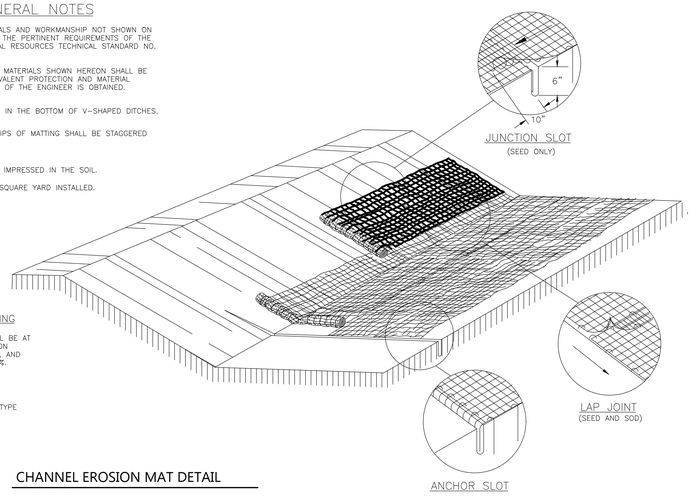
EDGES OF EROSION MAT SHALL BE IMPRESSED IN THE SOIL.

EROSION MAT SHALL PAID BY THE SQUARE YARD INSTALLED.

EROSION MAT OVER SEEDING

JUNCTION OR ANCHOR SLOTS SHALL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3%, AND 50 FEET ON GRADES EXCEEDING 3%.

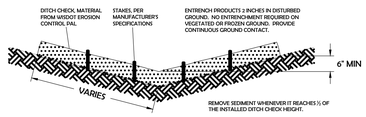
NOTE:
SEE SPECIFICATIONS FOR MATTING TYPE



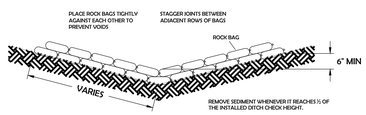
CHANNEL EROSION MAT DETAIL
NOT TO SCALE

DITCH CHECK DETAIL

LOG-TYPE DITCH CHECK



ROCK BAG DITCH CHECK

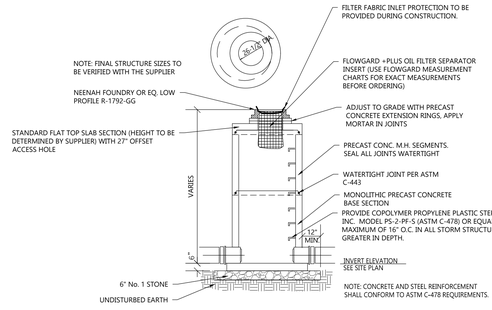


FILL BAGS WITH AGGREGATE CONFORMING TO THE FOLLOWING GRADATION (WISDOT NO. 1 COARSE AGGREGATE)

SIEVE	PERCENT PASSING BY WEIGHT
2-INCH	-
1½"-INCH	-
1-INCH	100
¾"-INCH	90-100
⅜"-INCH	20-55
No. 4	0-10
No. 8	0-5

PROVIDE BAGS MADE OF HIGH-DENSITY POLYETHYLENE OR GEOTEXTILE FABRIC

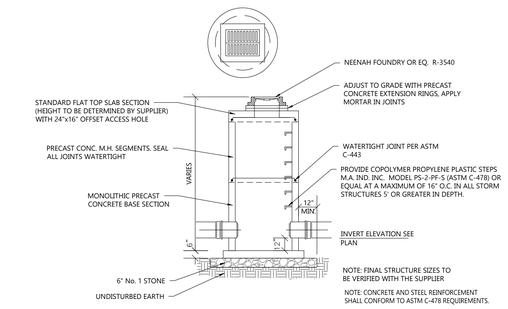
BAGS SHALL HAVE A MINIMUM IN-PLACE FILLED SIZE OF 18 INCHES LONG BY 12 INCHES WIDE BY 6 INCHES HIGH



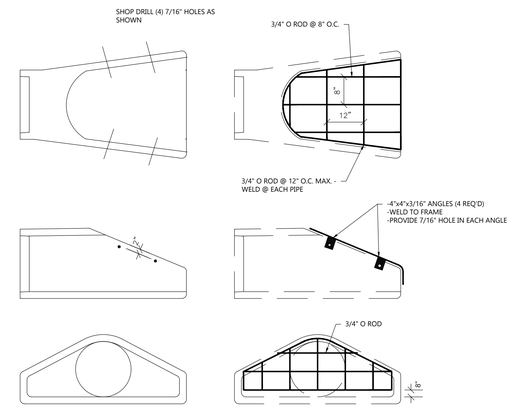
NOTE: FLOWGARD +PLUS CATCHBASIN INSERT SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES, WHICH AT A MINIMUM SHALL BE THREE INSPECTIONS PER YEAR AND A FILTER MEDIUM CHANGE ONCE PER YEAR.

ALTERNATE NOTE: THE OIL/WATER SEPARATOR FILTER MAY BE PROVIDED AS AN ELIMINATOR SYSTEM W/ ELIMO-PILLOW OR EQUIVALENT.

STORM CATCH BASIN W/ OIL SEPARATOR DETAIL
NOT TO SCALE



STORM SQUARE INLET W/ SUMP DETAIL
NOT TO SCALE

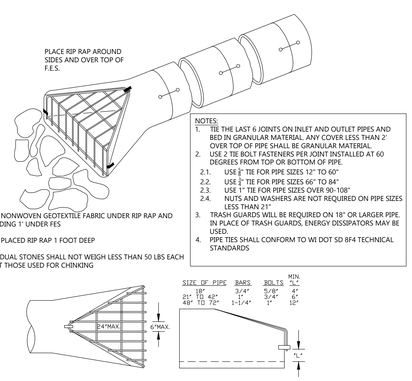


- THE CONTRACTOR SHALL BOLT THE GRATE TO THE CONCRETE END WALL WITH FOUR 3/8" x 6" MACHINE BOLTS WITH NUTS ON INSIDE WALL.
- APPLICABLE FOR PIPE SIZES 18" AND GREATER.

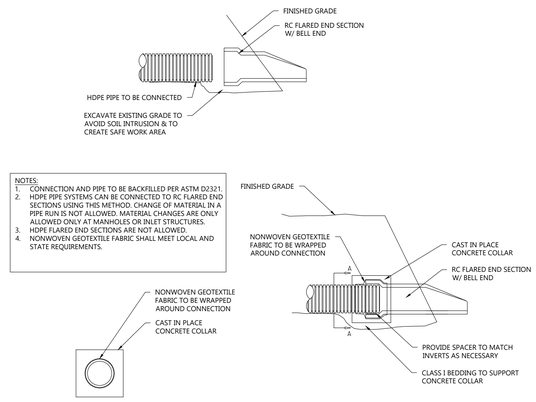
PAINTING SPECIFICATIONS
THE PIPE GRATE SHALL RECEIVE THE FOLLOWING PREPARATION & PAINTING, SEE NOTES: FIRST COAT- RUST-OLEUM X-60 RED BARE METAL PRIMER OR EQUAL
SECOND COAT- RUST-OLEUM 960 ZINC CHROMATE PRIMER OR EQUAL
THIRD COAT- RUST-OLEUM 1282 HIGH GLOSS & METALLIC FINISH OR EQUAL.

NOTES:
- BARE SURFACES - AFTER THROUGH SCRAPING, WIRE BRUSHING & CLEANING, APPLY THE THREE COAT SYSTEM LISTED.
- EACH COAT AN OVERALL COAT
- ALLOW 24-48 HOURS DRYING TIME BETWEEN COATS.

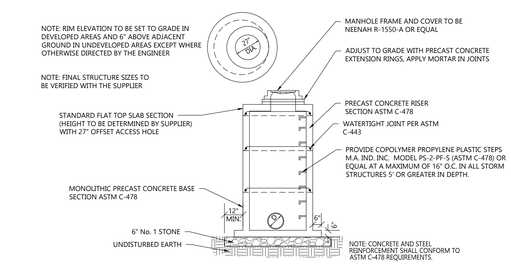
GRATE INSTALLATION DETAIL
NOT TO SCALE



CONCRETE END SECTION DETAIL
NOT TO SCALE



CONNECTION DETAIL FOR HDPE PIPE TO RC FLARED END SECTION BELL END
NOT TO SCALE



STORM MANHOLE DETAIL
NOT TO SCALE

CIVIL DETAILS

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COLLABORATION
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Miron Construction Co., Inc.
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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

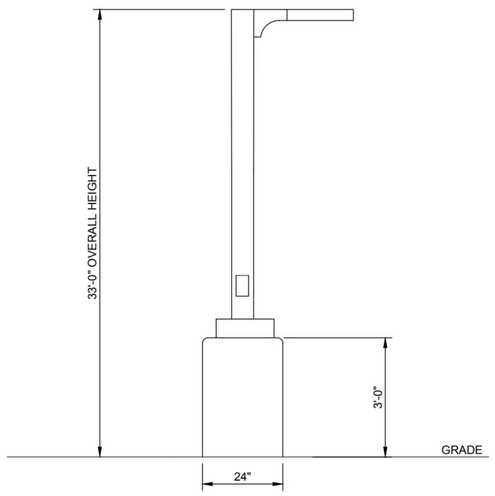
SHEET NUMBER
C2.1

Schedule

Symbol	Label	Catalog Number	Description	Lumens per Lamp	Wattage
	L14	DSX2 LED P4 40K 70CRI TFTM	D-Series Size 2 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Forward Throw	35808	272.65
	L14H	DSX2 LED P4 40K 70CRI TFTM HS	D-Series Size 2 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Forward Throw Houseside Shield	30029	272.6516
	L24	DSX2 LED P4 40K 70CRI TFTM	D-Series Size 2 Area Luminaire P4 Performance Package 4000K CCT 70 CRI Forward Throw	35808	545.3
	WP2	DSXW2 LED P7 40K 70CRI TFTM	14000 4000K 70CRI 70CRI Forward Throw Medium	14565	103.84
	CL1	CNY LED ALO @10000L SWW2 @40K UVOLT PE PIR DDB	CNY LED ALO SWW2 UVOLT PE PIR DDB 40K 10000L	9877	72.84
	C05WE	IVO4 D 07LM 40K 80CRI MD BEV ARS	IVO4 Downlight 700 Lumens 4000K 80+ CRI Medium Batwing Downlight Bevel Clear Anodized Semi-Specular	587	7.337
	WSE	GL-6543-B-CC-R3-TBL-A	BRIDGELUX LED 3.75"DIA CYLINDER PHOENIX SCONCE LUMINAIRE SEMI-SPEC 30DEG REFL w/CLEAR ACRYLIC FLAT LENS THOMAS RESEARCH PRODUCTS REMOTE DRIVER #LED20W-48-C0350-D	848	13
	WP3	DSXW2 LED P7 40K 80CRI T3M	14000 4000K 80CRI Type 3 Medium	12982	103.84
	L24_90	DSX2 LED P4 40K 80CRI TFTM	D-Series Size 2 Area Luminaire P4 Performance Package 4000K CCT 80 CRI Forward Throw	32856	545.3
	FL1	DSXF1 LED P2 40K NSP	DSXF1 LED P2 40K NSP	Absolute	42

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
*MARATHON CO OVERALL SITE	+	0.9 fc	30.9 fc	0.0 fc	N/A	N/A
EQUIPMENT BLDG, FUEL CANOPY, & MAIN BLDG DRIVE AREAS	X	1.2 fc	5.9 fc	0.1 fc	59.0:1	12.0:1
EQUIPMENT BLDG. CANOPY	X	6.5 fc	12.2 fc	2.1 fc	5.8:1	3.1:1
EQUIPMENT BLDG. CANOPY	X	6.5 fc	12.2 fc	1.7 fc	7.2:1	3.8:1
FRONT ENTRANCES AND WEST DRIVEWAYS	X	3.7 fc	5.8 fc	0.3 fc	19.3:1	12.3:1
GENERATOR / TRANSFORMER	X	2.5 fc	4.1 fc	0.9 fc	4.6:1	2.8:1
NORTH WEST PARKING AREA	X	2.6 fc	6.9 fc	0.8 fc	8.6:1	3.3:1
SALT BLDG & MAIN BLDG DRIVE AREA	X	2.1 fc	6.6 fc	0.8 fc	8.3:1	2.6:1
TRUCK SCALE	X	2.2 fc	3.1 fc	1.4 fc	2.2:1	1.6:1



LIGHT POLE DETAIL

NO SCALE

SCALE: 1" = 50'
50' 0 50' 100'
NORTH

CIVIL SITE PHOTOMETRIC PLAN & DETAILS

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PROFESSIONAL SEAL

PRELIMINARY DATES
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JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
C3.1

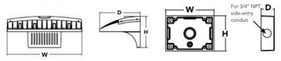
d*series

D-Series Size 2
LED Wall Luminaire

Catalog Number
Notes
Type

Specifications
Luminaire
Width: 18-1/2" (47.0 cm) **Weight:** 21 lbs (9.5 kg)
Depth: 10" (25.4 cm)
Height: 7-5/8" (19.4 cm)

Back Box (BBW)
Width: 5-1/2" (14.0 cm) **BBW Weight:** 1 lbs (0.5 kg)
Depth: 1-1/2" (3.8 cm)
Height: 4" (10.2 cm)



A+ Capable Luminaire
This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background

To learn more about A+, visit www.acuitybrands.com/aplus.

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: Link to Roam; Link to DTL DLL

A+ Capable options indicated by this color background.

Ordering Information
EXAMPLE: DSXW2 LED P2 40K 70CRI T3M MVOLT SRM DDBTXD

DSXW2 LED

Series	Lumen Package	CCT	CRI	Distribution	Voltage	Mounting	Control Options
DSXW2 LED	P1 4200 Lumens P2 5300 Lumens P3 6100 Lumens P4 7200 Lumens P5 8200 Lumens P6 10000 Lumens P7 14500 Lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K 57K 5700K AMBPC Amber PC[1] AMBLW Amber LW[1]	70CRI 70CRI 80CRI 80CRI[1] AMCRI Amber CRI	T2S Type 2 Short T2M Type 2 Medium T3LG Type 3 Low Glare[2] T3M Type 3 Medium T4M Type 4 Medium TFTM Forward Throw Medium BLC3 Back Light Control Type 3[1] BLC4 Back Light Control Type 4[1]	MVOLT 120-277V[3] 208[1] 240[1] 277[1] 347[1,4] 480[1,4] HVOLT[4]	**Shipped included** SRM Surface-mounting bracket **Shipped separately[5]** BBW Surface-mounted back box (for conduit entry)	**Shipped included** PE Photoelectric cell, button type[6] PER NEMA twist-lock receptacle only (control ordered separately)[6] PERS Five-wire receptacle only (control ordered separately)[6,7] PERT Seven-wire receptacle only (control ordered separately)[6,7] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, <15' mtg ht[6,8,9] PIRH 180° motion/ambient light sensor, 15-30' mtg ht[6,8,9] PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 3fc[6,8,9] PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 3fc[6,8,9]

Other Options	Finish (required)
Shipped installed SF Single fuse (120, 277, 347V)[1] DF Double fuse (208, 240, 480V)[1] HS House-side shield SPD Separate surge protection[10] **Shipped separately[10]** BSW Bird-deterrent spikes VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSSXD Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white DSSTXD Textured sandstone

LITHONIA LIGHTING
1 Acuity Way • Decatur, Georgia 30035 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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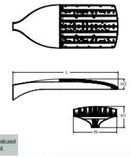
DSXW2-LED Rev. 05/19/26 Page 1 of 4
COMMERCIAL OUTDOOR

d*series

D-Series Size 2
LED Area Luminaire

Catalog Number
Notes
Type

Specifications
EPA: 1.06 ft² (0.10 m²)
Length: 40.59" (103.1 cm)
Width: 16.76" (42.6 cm)
Height H1: 8.11" (20.6 cm)
Height H2: 3.96" (10.1 cm)
Weight: 46 lbs (20.9 kg)



Introduction
The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.
The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of up to 80% vs. 1000W HID and expected service life of over 100,000 hours.

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Design Select options indicated by this color background.

Ordering Information
EXAMPLE: DSX2 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX2 LED

Series	LEDs	Color temperature[1]	Color Rendering Index[1]	Distribution	Voltage	Mounting
DSX2 LED	**Forward optics** (this section 70CRI only) P1 P5 P2 P6 P3 P7 P4 P8 **Rotated optics** P10[1] P13[1] P11[1] P14[1] P12[1]	30K 3000K 40K 4000K 50K 5000K 27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row TFTM Forward throw medium T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control[1] BLC4 Type IV backlight control[1] LCCO Left corner cutoff[1] RCCO Right corner cutoff[1]	MVOLT (120V-277V)[2] HVOLT (347V-480V)[2,3] XVOLT (277V-480V)[3,4] 120[3,4,5] 208[3,4,5] 240[3,4,5] 277[3,4,5] 347[3,4,5] 480[3,4,5]	**Shipped included** SPA Square pole mounting (4ft drilling) RPA Round pole mounting (4ft drilling) SPAS Square pole mounting #1 drilling[1] RPAS Round pole mounting #1 drilling[1] SPABN Square narrow pole mounting #4 drilling[1] WBA Wall bracket[1] AA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options	Other options		Finish (required)
Shipped installed NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[1,2,3,4,5] PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc[1,2,3,4,5] PER NEMA twist-lock receptacle only (controls ordered separate)[6] PERS Five-pin receptacle only (controls ordered separate)[6,7]	**Shipped installed** PER7 Seven-pin receptacle only (controls ordered separate)[6,7] FAO Field adjustable output[8,9,10] BL30 Bi-level switched dimming, 30%[8,9] BL50 Bi-level switched dimming, 50%[8,9] DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)[8] DS Dual switching[8,10,11] **Shipped separately** BSW Bird-deterrent spikes VG Vandal guard	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

LITHONIA LIGHTING
1 Acuity Way • Decatur, Georgia 30035 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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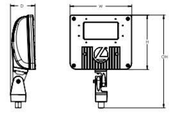
DSX2-LED Rev. 09/28/25 Page 1 of 10
COMMERCIAL OUTDOOR

d*series

D-Series DSXF1
LED Floodlight

Catalog Number
Notes
Type

Specifications
EPA: 0.6 ft² (0.05 m²)
Depth: 3.52" (8.9 cm)
Width: 8.86" (22.5 cm)
Height: 7.84" (19.9 cm)
Overall Height 13.37" (34.0 cm)
Weight: 7.2 lbs (3.3 kg)



Introduction
The Solar DSXF1 floodlight feature a wide offering of six precision optics, two mountings and three color temperatures to meet your specific Solar floodlighting needs.
Solar DSXF1 delivers up to 5500 lumens, meeting a large breadth of illumination requirements for design and renovation when replacing 70W to 150W HID floodlights. All configurations are assembled in the USA allowing for quick delivery.
The solar version is compatible with Sol By Sunna Design's Solar Lighting Engine. The performance will be based on the project location and the available solar energy output. Contact Sol by Sunna Design Sales Team for a quote for your Lithonia Solar Lighting Solutions. email: sales@solarlighting.com or call: 1-800-959-1329

Sol by Sunna Design®

Ordering Information
EXAMPLE: DSXF1 LED P1 40K MSP SOLAR THK DDBXD

DSXF1 LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
DSXF1 LED	P1 P2	30K 3000K 40K 4000K 50K 5000K	WFL Wide flood (60) FL Flood (105) MFL Medium flood (40) WFR Wide flood rectangular (60) HMF Horizontal medium flood (60) NSP Narrow spot (30)	SOLAR Only compatible with Sol By Sunna Design's Solar Lighting Solutions	**Shipped included** THK Knuckle with 1/2" NPT threaded pipe IS Integral slipfitter (fits 2-3/8" OD. tenon)

Options	Finish (required)
Shipped installed CCO Coastal Construction **Shipped separately** UBV Upper/bottom visor (universal) FV Full visor VG Vandal guard WFL Wide flood (60) HMF Horizontal medium flood (60)	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White

Accessories[1]
Ordered and shipped separately.
DSXF1 SBK UBKDD U Upper/bottom visor accessory (specify finish)
DSXF1 FV DDBXD U Full visor accessory (specify finish)
DSXF1 WG U Vandal guard accessory

For more mounting options, refer to mounting accessories pages.

NOTES
1. Also available as accessories; see Accessories information at left.

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DSXF1 LED SOLAR Rev. 06/28/24 Page 1 of 6
COMMERCIAL OUTDOOR

CS CONTRACTOR SELECT

LITHONIA LIGHTING

Catalog Number
Notes
Type

Contractor Select™

CNY LED ALO
Canopy Luminaire Adjustable+Switchable+Photocell +Occupancy Sensor

The Lithonia Lighting CNY LED ALO canopy luminaire is a versatile, energy efficient solution for surface-mount applications for walkways, overhangs, and parking garages. Adjustable switch panel easily changes lumen output, color temperature, integrated photocell, and integrated motion sensor. The low profile frosted lens creates a visually comfortable illumination and even distribution.

FEATURES:
- 3 power levels deliver 5,000 - 10,000 lumens.
- Switchable CCT (30K/40K/50K) offers warm, cool, and daylight in a single fixture
- Integrated On/Off photocell
- Integrated occupancy sensor can be turned on, off, or set to 10% dim
- Install by surface mount, junction box, or pendant mount
- IK08 impact resistant polycarbonate frosted lens
- IP65 rated, die cast aluminum housing

Adjustable Lumen Output ALO
Switchable CCT 5WW2
Integrated Photocell
Integrated Motion Sensor

Catalog Number	Adjustable Lumen Output ALO	Switchable CCT 5WW2	Photocell Operation	Occupancy Sensor	Input Voltage	CRI	Finish
CNY LED ALO 5WW2 SVOLT PE P08 DDB WZ	5,000 Lumens 7,500 Lumens 10,000 Lumens	Switchable 3000K, 4000K,5000K	Included Standard, Selectable On/Off/10% Dim	Included Standard, Selectable On/Off/10% Dim	120-347V	80CRI	Dark Bronze
CNY LED ALO 5WW2 SVOLT PE P08 WH WZ	5,000 Lumens 7,500 Lumens 10,000 Lumens	Switchable 3000K, 4000K,5000K	Included Standard, Selectable On/Off/10% Dim	Included Standard, Selectable On/Off/10% Dim	120-347V	80CRI	White

CNY Stock Options

Catalog Number	UPC	CI Code	Number of Fixtures per pallet	Traditional Replacement
CNY LED ALO 5WW2 SVOLT PE P08 DDB WZ	00791589491045	*2849BB	160	Up to 250W HID
CNY LED ALO 5WW2 SVOLT PE P08 WH WZ	00791589493126	*2849BW	180	Up to 250W HID

Lumen Output:
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79.

Lumen Output	Input Wattage	CCT/80CRI	Delivered Lumens	Lumens Per Watt
5,000	34	3000K	4109	120
		4000K	4794	140
		5000K	4777	140
7,500	52	3000K	7369	133
		4000K	7403	144
		5000K	7291	137
10,000	73	3000K	9924	125
		4000K	9894	136
		5000K	9529	125

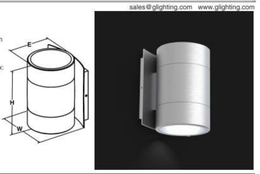
Accessories: Order as separate catalog number.
CNYBCP DDB — 14 Inch x 14 Inch Beauty Cover Plate
CNYEK E7WC M12 — Field installable emergency battery, 7W, EVOLT compatible, Minimum operating temp of 0°C

CONTRACTOR SELECT CNY LED ALO
Page 1 of 2

CYLINDER
Outdoor ADA Wall Sconce

GLighting
9777 Reavis Park Drive
St. Louis, MO 63123
800.331.2425 or 314.631.6000
sales@glighting.com www.glighting.com

GENERAL SPECIFICATION
LED: High efficiency high-power LED. Lumen maintenance +90% over 50,000 hour life. Light source is field replaceable.
Driver: Standard 1% 0-10V dimming. Max remote driver installation distance: 25ft from fixture body.Universal voltage 120-277V.
Body: Cast aluminum.
Mounting: Driver mounted in 4" square by 2 1/8" deep junction box. Steel City #52171 or equivalent (supplied by others)
Finish: Highly durable oven cured no VOC premium powder coat.
Surge Protection: External surge protector provided as standard.



SAMPLE CATALOG NUMBER: GL-6540- B- R2 R2 TBL- A

MODEL NO.	LAMPING	REFLECTOR UP	REFLECTOR DOWN	FINISH	OPTIONS
GL-6540 W 5" in H 9 1/4" in E 4" in	**C.**LED30 **B.**LED35 **E.**LED40	Up **R2** 20° Fresnel Lens **R3** 30° Flat, Clear Lens	Down **R2** 20° Fresnel Lens **R3** 30° Flat, Clear Lens	Textured Powder: **TLV**-Light Verdigris **TWH**-Textured White **TBL**-Textured Black **TS**-Textured Silver **TBZ**-Textured Bronze **TST**-Stone	**A.** No Options **EL.**-Emergency Ballast Remote mount up to 10' from light source in controlled environment with an extra temperature range of 32°-131°F.
GL-6541 W 5" in H 4" in E 4" in	**C.**LED30 **B.**LED35 **E.**LED40	Up **R5** 50° Flat, Clear Lens **CC** Closed Cap	Down **R5** 50° Flat, Clear Lens **CC** Closed Cap		
GL-6542 W 5" in H 7 5/8" in E 4" in	**C.**LED30 **B.**LED35 **E.**LED40	Up **R2** 20° Fresnel Lens **R3** 30° Flat, Clear Lens	Down **R5** 50° Flat, Clear Lens **CC** Closed Cap		
GL-6543 W 5" in H 7 5/8" in E 4" in	**C.**LED30 **B.**LED35 **E.**LED40	Up **R5** 50° Flat, Clear Lens **CC** Closed Cap	Down **R2** 20° Fresnel Lens **R3** 30° Flat, Clear Lens		

* All dimensions are nominal.

Light Source Definition

Code	Kelvin	Reflector	CRI	Specifications per side — Wattage	Life Hrs	Total Delivered Lumens
LED30	3000K	20°	+80	14W	50000	1462*
		30°	+80	14W	50000	1030
		50°	+80	14W	50000	1284
LED35	3500K	20°	+80	14W	50000	1462*
		30°	+80	14W	50000	1030
		50°	+80	14W	50000	1284
LED40	4000K	20°	+80	14W	50000	1462*
		30°	+80	14W	50000	1030
		50°	+80	14W	50000	1284

Fixture is ETL listed for wet locations
Complete LM-79 data available at glighting.com

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gotham® EVO
Multiple Layers of Light

Luminaire Type:
Catalog Number:

General Illumination Round Downlight **4"**

FEATURES

Feature Set
- Bounding Ray™ optical design
- Unitized optics mechanically attach the light engine to the lower reflector for complete optical alignment.
- 45° cutoff to source and source image
- Fully serviceable and upgradeable lensed LED light engine
- 70% lumen maintenance at 60,000 hours
- 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
- Fixtures are wet location, covered ceiling
- Available with 10% dimming, 1% dimming, or dim to dark
- Batwing distribution with feathered edges provides even illumination on horizontal and vertical surfaces.
- UGR of zero for fixtures aimed at nadir with a cut-off equal to or less than 650kg per CIE 117-1995 Discomfort Glare in Interior Lighting. UGR FAQ

Distribution

Superior Performance*

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500
Delivered Lumens	271	573	808	1001	1527	1994	2580	3110	3612	4120	4584
Wattage	3.1	7.2	7.9	8.8	13.7	19.5	25.7	31.2	38.4	35.4	40.1
Lumens per Watt	87.4	79.6	102.3	113.8	111.5	102.3	100.4	99.7	94.1	116	114

*Based on 3500K 4B LSS MWD 80CRI

Design Select
Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

COMPLEMENTARY PRODUCTS

Coordinated Apertures | Multiple Layers of Light

General Illumination Layer | EVO

High Center Beam Layer | Incito

EVO + Incito — Multiple Layers of Light

EVD4
page 1 of 7

GOTHAM ARCHITECTURAL DOWNLIGHTING | 1 Acuity Way, Decatur, GA 30035 | P 800-705-SERV (7378) | gothamlighting.com
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SCALE: 1" = 50'
50' 0 50' 100'
NORTH

CIVIL SITE PHOTOMETRIC DETAILS

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100 Camelot Drive
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920-926-9800
excelengineer.com

COLLABORATION
Miron
Building Excellence
Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
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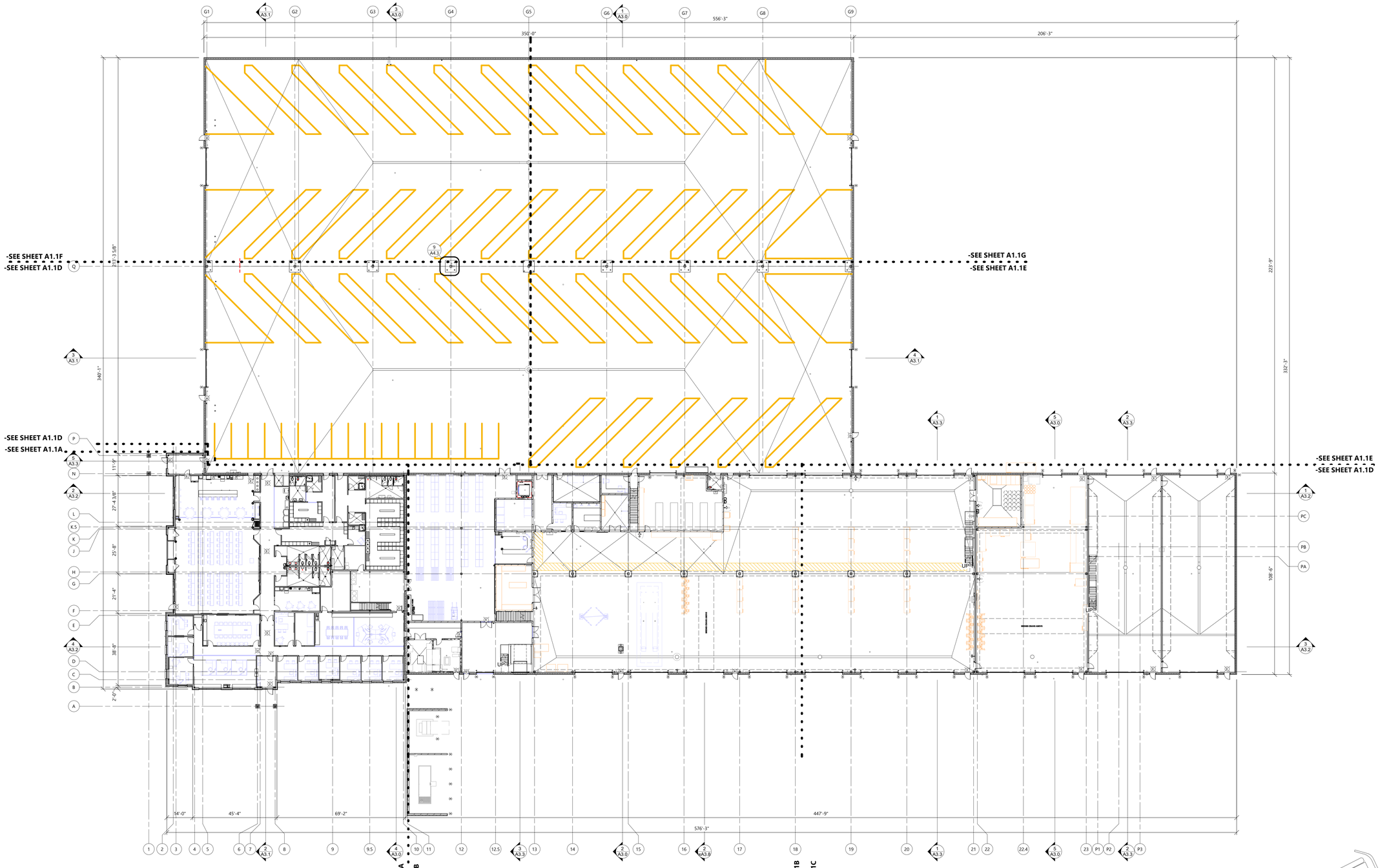
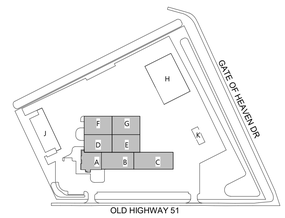


NORTH

FIRST FLOOR PLAN - OVERALL

SCALE: 3/64" = 1'-0"

0' 16' 32'



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - MAIN BUILDING

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920-926-9800
excelengineer.com

COLLABORATION
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Miron Construction Co., Inc.
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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
JAN. 16, 2026
FEB. 2, 2026
FEB. 6, 2026
FEB. 24, 2026
APR. 15, 2026
MAR. 2, 2026
MAR. 13, 2026
MAR. 27, 2026
APR. 15, 2026
MAY 15, 2026
JULY 14, 2026
JULY 23, 2026

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JOB NUMBER
250008600

SHEET NUMBER
A1.1

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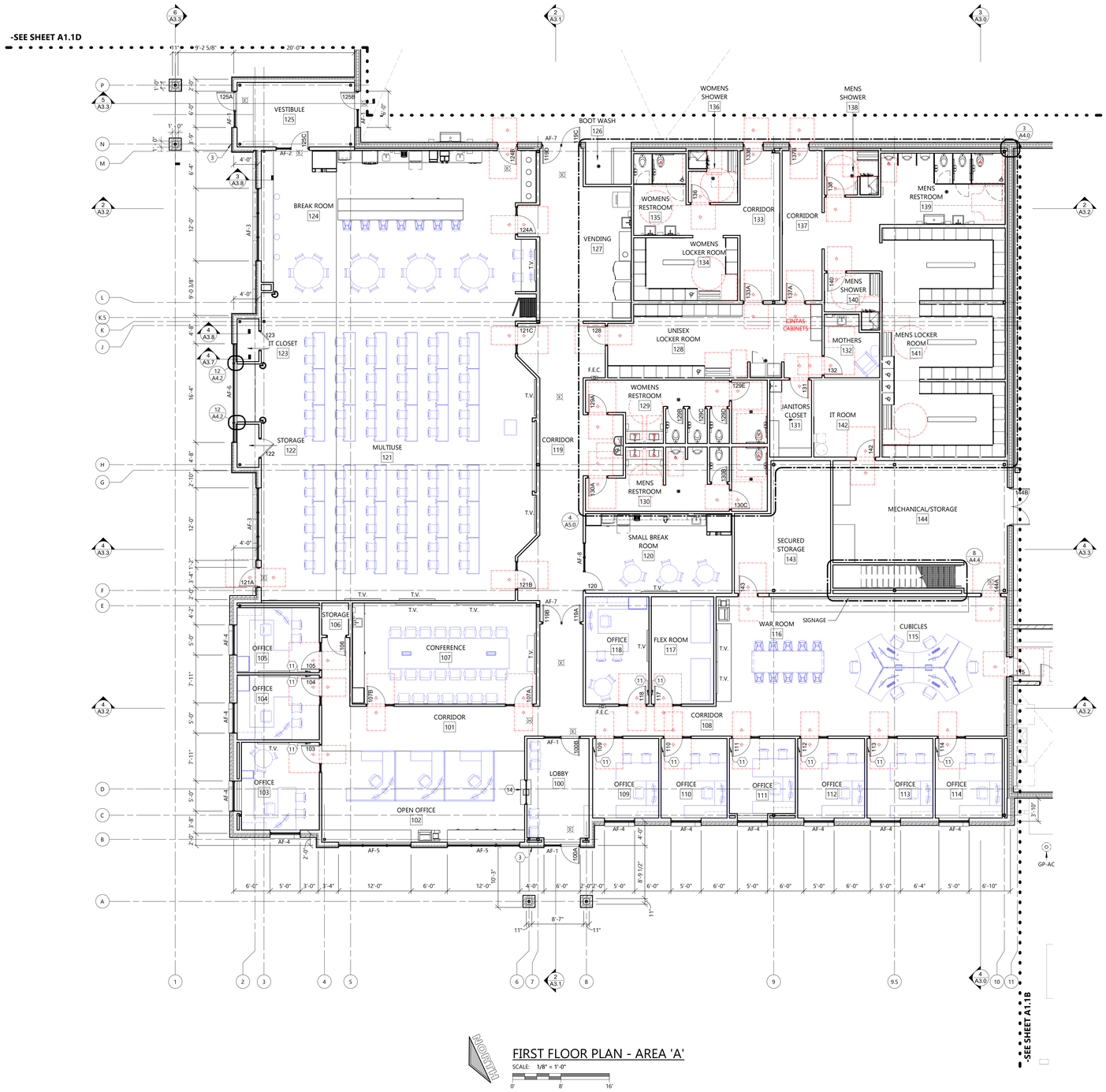

NORTH

FIRST FLOOR PLAN - AREA 'A'

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

0' 8' 16'

SYMBOLS LEGEND

- EM1 — EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 4W02 — INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 3+3+GP — PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 6M03.2 FW — FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
- SEE SPECIFICATIONS FOR WORK BY OWNER. WORK BY OWNER SHOWN ON PLANS IS SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE SPECIFIC INSTALLATION REQUIREMENTS WITH OWNER/OWNER'S VENDOR.
- LOCATE ALL DOORS IN METAL STUD AND MASONRY WALLS 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" "V" REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

FLOOR PLAN KEYNOTES

#	
3	PROPOSED KNOX BOX LOCATION. COORDINATE FINAL LOCATION(S) AND REQUIREMENT WITH LOCAL FIRE DEPARTMENT/BUILDING INSPECTOR.
11	INSTALL DOOR HOOKS - PURCHASED AND INSTALLED BY CONTRACTOR
14	READY ACCESS WINDOW. CONTRACTOR PROVIDED AND INSTALLED

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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES

FEB. 2, 2026
FEB. 6, 2026
MAR. 13, 2026
MAR. 27, 2026
APR. 15, 2026
MAY. 15, 2026
JULY 14, 2026

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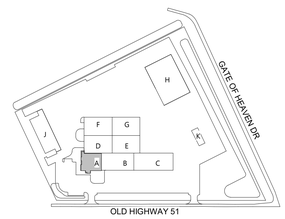
JOB NUMBER 250008600

SHEET NUMBER **A1.1A**



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'A' - MAIN BUILDING

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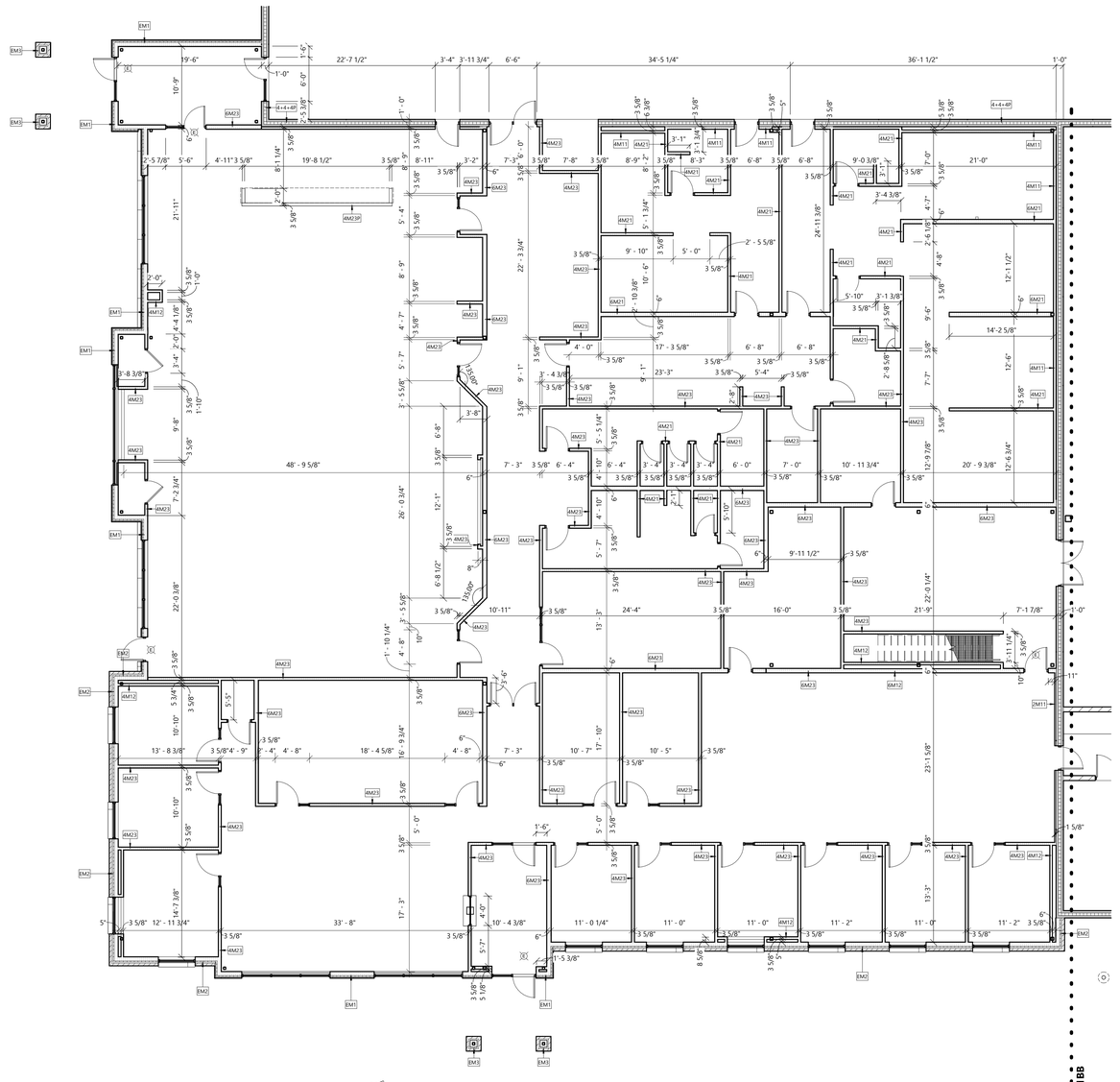
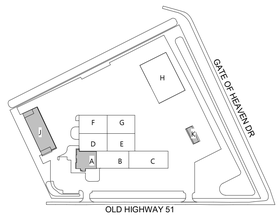


FIRST FLOOR DIMENSION PLAN - AREA 'A'

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

0' 8' 16'



KEY PLAN

ARCHITECTURAL FIRST FLOOR - INTERIOR DIMENSIONS - AREA 'A'

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excelengineer.com

COLLABORATION

Miron

Building Excellence

Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES

MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026

NOT FOR CONSTRUCTION

JOB NUMBER

250008600

SHEET NUMBER

A1.1AA

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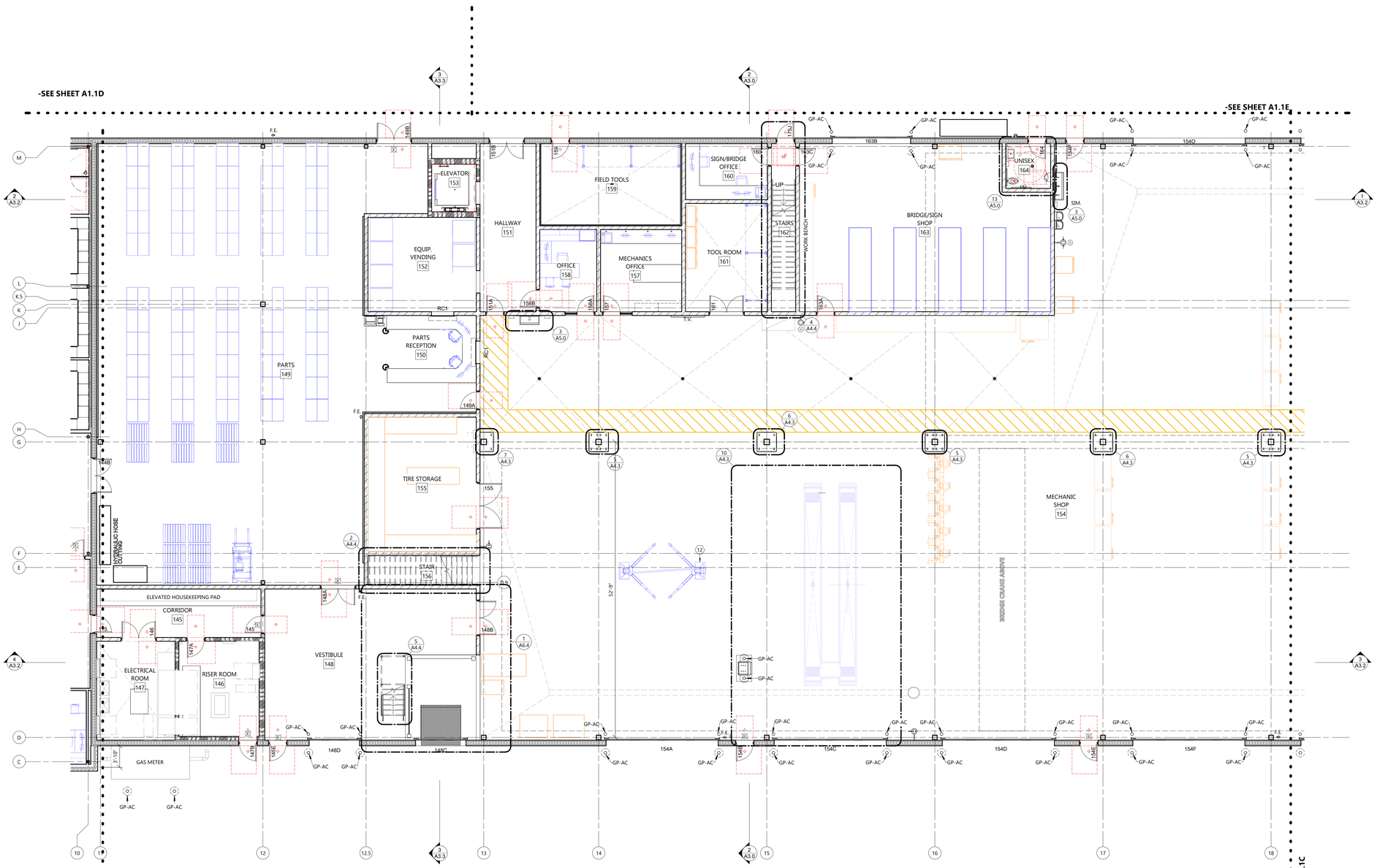
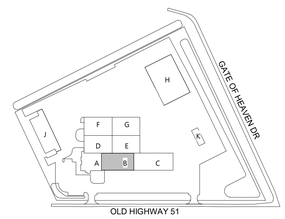


NORTH

FIRST FLOOR PLAN AREA "B"

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

0' 8' 16'



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'B' - MAIN BUILDING

SYMBOLS LEGEND

- EM1 — EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- IW22 — INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 3+3+GP — PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 6M23.2 FW — FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
- SEE SPECIFICATIONS FOR WORK BY OWNER. WORK BY OWNER SHOWN ON PLANS IS SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE SPECIFIC INSTALLATION REQUIREMENTS WITH OWNER/OWNER'S VENDOR.
- LOCATE ALL DOORS IN METAL STUD AND MASONRY WALLS 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" "V" REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

FLOOR PLAN KEYNOTES

12 TWO POST LIFT BY OWNER.

EXCEL

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COLLABORATION

Miron

Building Excellence

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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES

JAN. 15, 2026
FEB. 2, 2026
FEB. 6, 2026
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MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER

250008600

SHEET NUMBER

A1.1B

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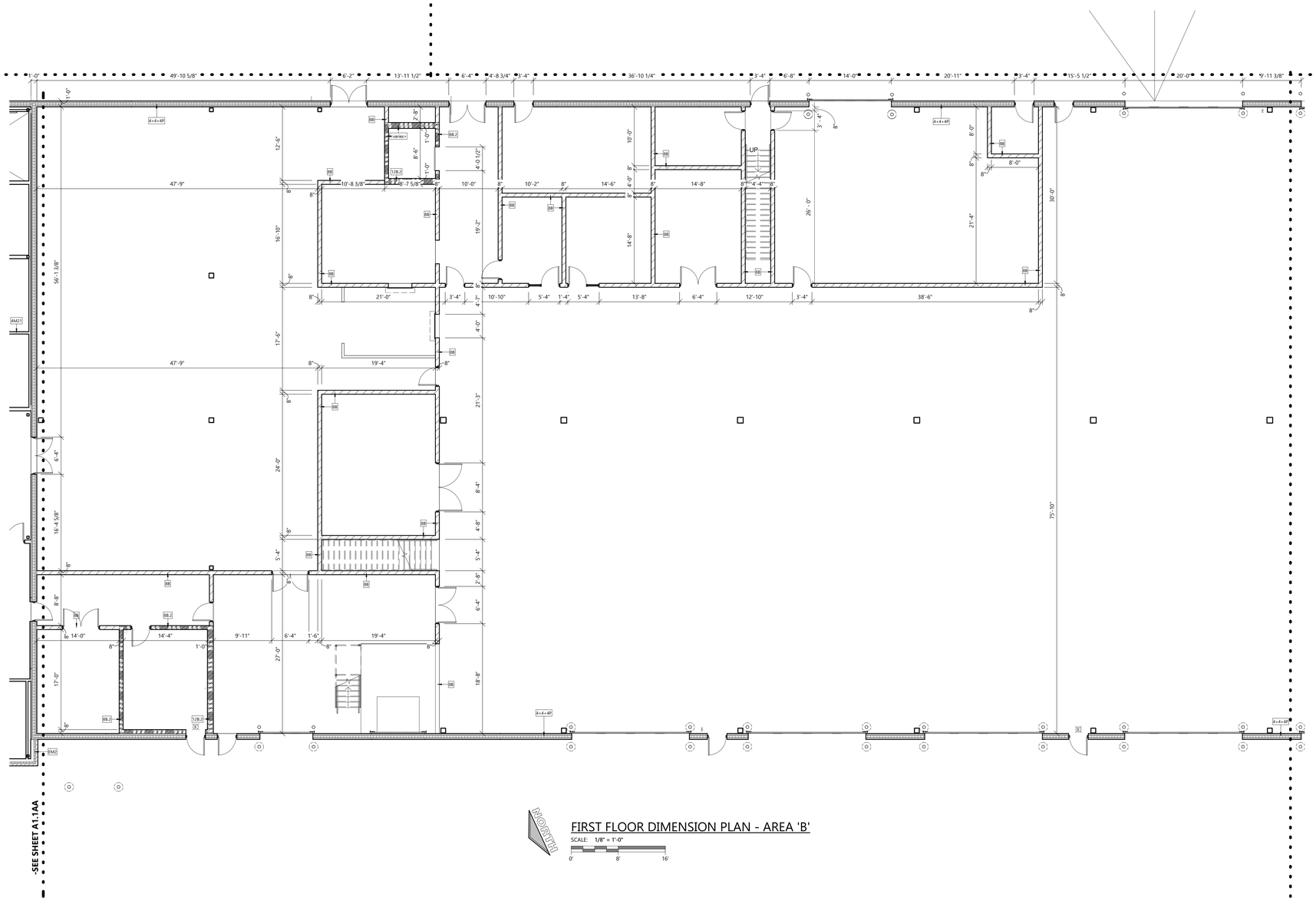
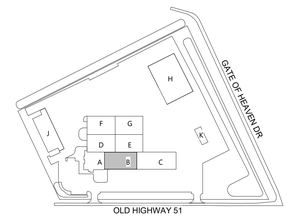


NORTH

FIRST FLOOR DIMENSION PLAN - AREA 'B'

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

0' 8' 16'



KEY PLAN

ARCHITECTURAL FIRST FLOOR - INTERIOR DIMENSIONS - AREA 'B'

EXCEL
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COLLABORATION
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Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
A1.1BB

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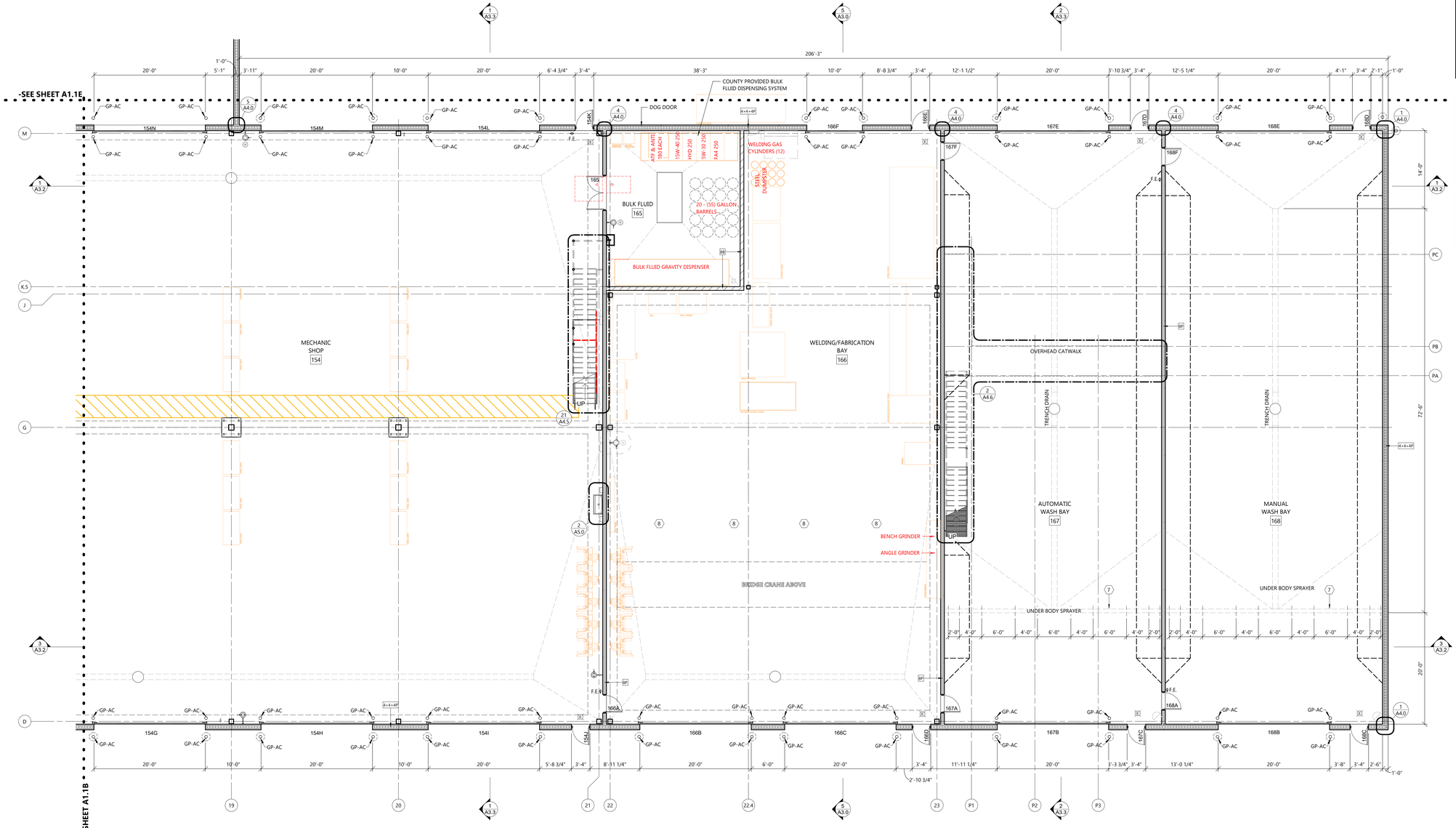
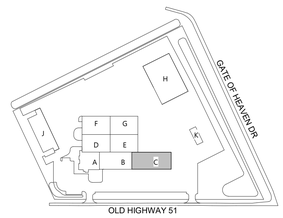


NORTH

FIRST FLOOR PLAN - AREA 'C'

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

0' 8' 16'



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'C' - MAIN BUILDING

SYMBOLS LEGEND

- EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
- SEE SPECIFICATIONS FOR WORK BY OWNER. WORK BY OWNER SHOWN ON PLANS IS SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE SPECIFIC INSTALLATION REQUIREMENTS WITH OWNER/OWNER'S VENDOR.
- LOCATE ALL DOORS IN METAL STUD AND MASONRY WALLS 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" 'V' REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR UGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

FLOOR PLAN KEYNOTES

#	
7	DURATRENCH STAINLESS STEEL TRENCH DRAIN. SEE PLUMBING PLANS
8	SWIVEL HOIST RING AND CAP PLATE ASSEMBLY. SEE STRUCTURAL SHEETS.

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COLLABORATION
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Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
JAN. 15, 2026
FEB. 6, 2026
MAR. 13, 2026
MAR. 27, 2026
APR. 15, 2026
MAY. 15, 2026
JULY 14, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
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SHEET NUMBER
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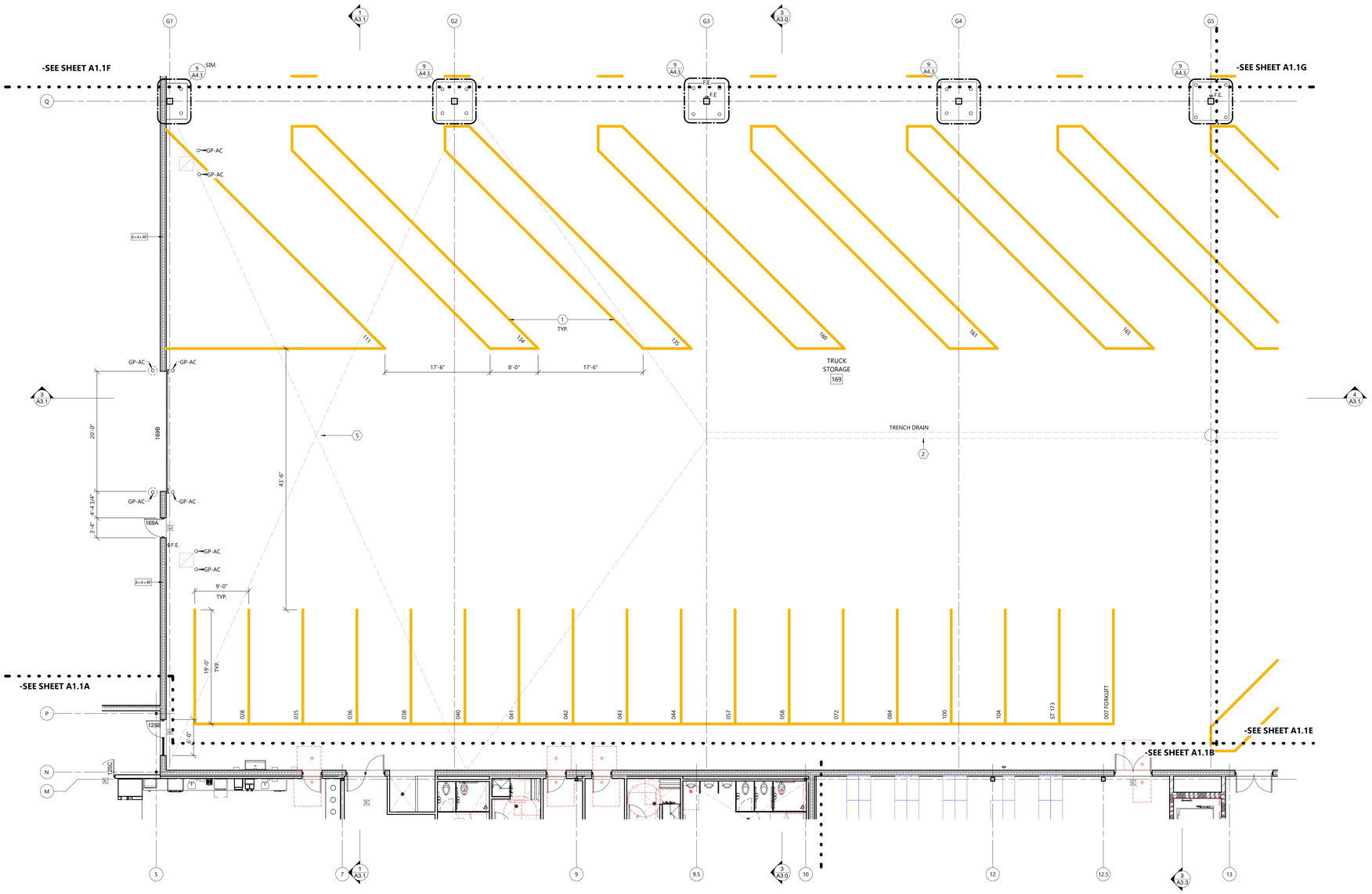

SYMBOLS LEGEND

- EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
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- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" 'V' REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

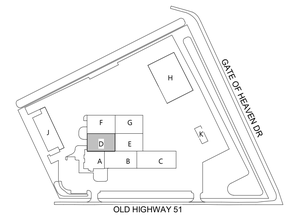
FLOOR PLAN KEYNOTES

1	PROPOSED INTERIOR PARKING, FORKLIFT, WALK PATH STRIPING. FINAL LAYOUT TO BE CONFIRMED BY OWNER PRIOR TO PAINTING. STALL SIZED TO CONFROM WITH LOCAL AND STATE CODES.
2	FORMED CONCRETE TRENCH DRAIN. SEE STRUCTURAL PLANS
5	CATCH BASIN. SEE PLUMBING PLANS

FIRST FLOOR PLAN AREA "D"

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

0' 8' 16'



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'D' - MAIN BUILDING

EXCEL
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100 Camelot Drive
Fond du Lac, WI 54935
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COLLABORATION
Miron
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Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
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MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
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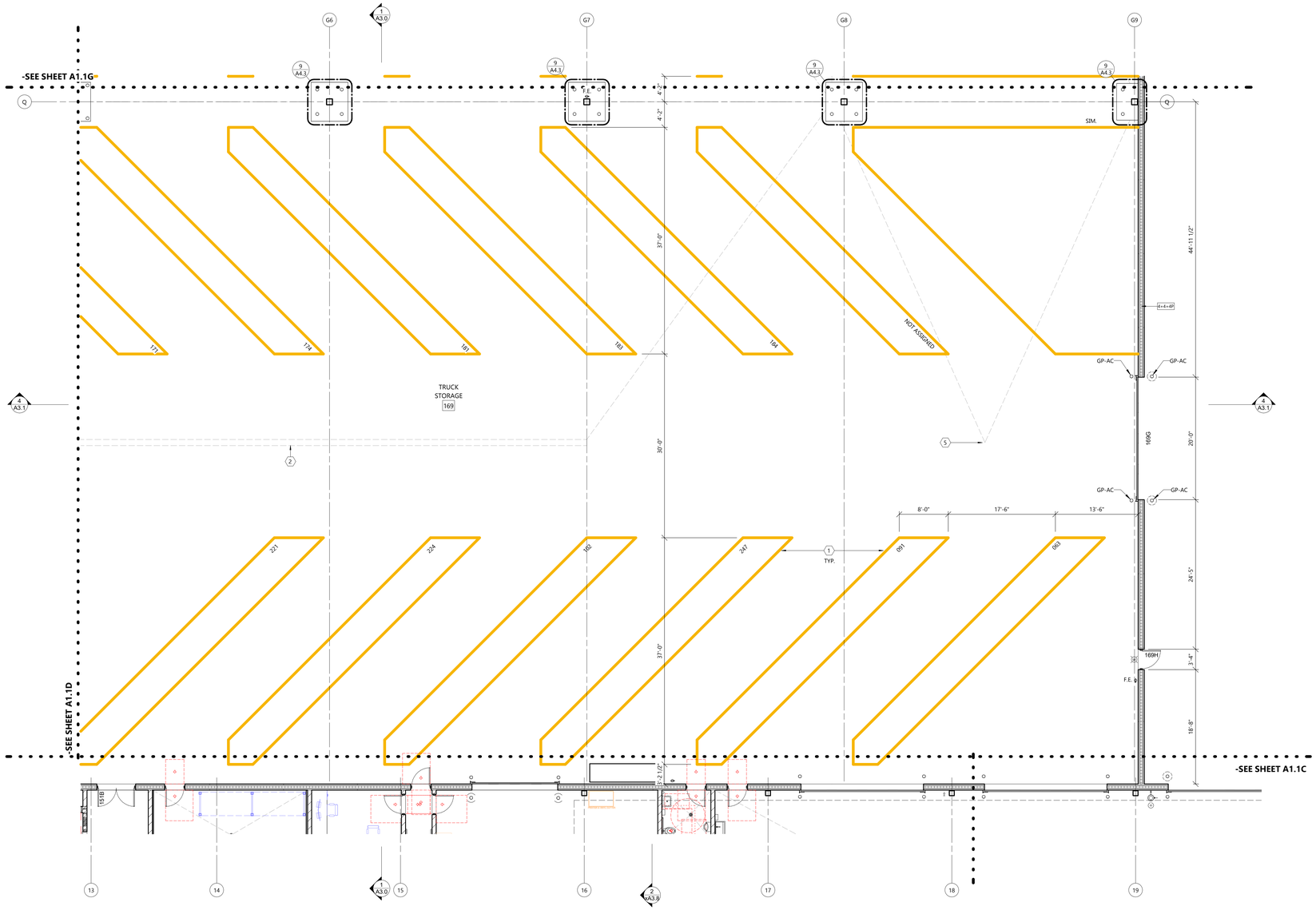


NORTH

FIRST FLOOR PLAN AREA "E"

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

0' 8' 16'

SYMBOLS LEGEND

- EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

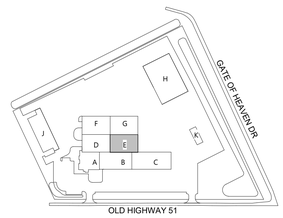
NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
- SEE SPECIFICATIONS FOR WORK BY OWNER. WORK BY OWNER SHOWN ON PLANS IS SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE SPECIFIC INSTALLATION REQUIREMENTS WITH OWNER/OWNER'S VENDOR.
- LOCATE ALL DOORS IN METAL STUD AND MASONRY WALLS 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" "V" REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

FLOOR PLAN KEYNOTES

#	
1	PROPOSED INTERIOR PARKING, FORKLIFT, WALK PATH STRIPING. FINAL LAYOUT TO BE CONFIRMED BY OWNER PRIOR TO PAINTING. STALL SIZED TO CONFROM WITH LOCAL AND STATE CODES.
2	FORMED CONCRETE TRENCH DRAIN. SEE STRUCTURAL PLANS
5	CATCH BASIN. SEE PLUMBING PLANS



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'E' - MAIN BUILDING

EXCEL
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100 Camelot Drive
Fond du Lac, WI 54935
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excelengineer.com

COLLABORATION
Miron
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Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

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JOB NUMBER
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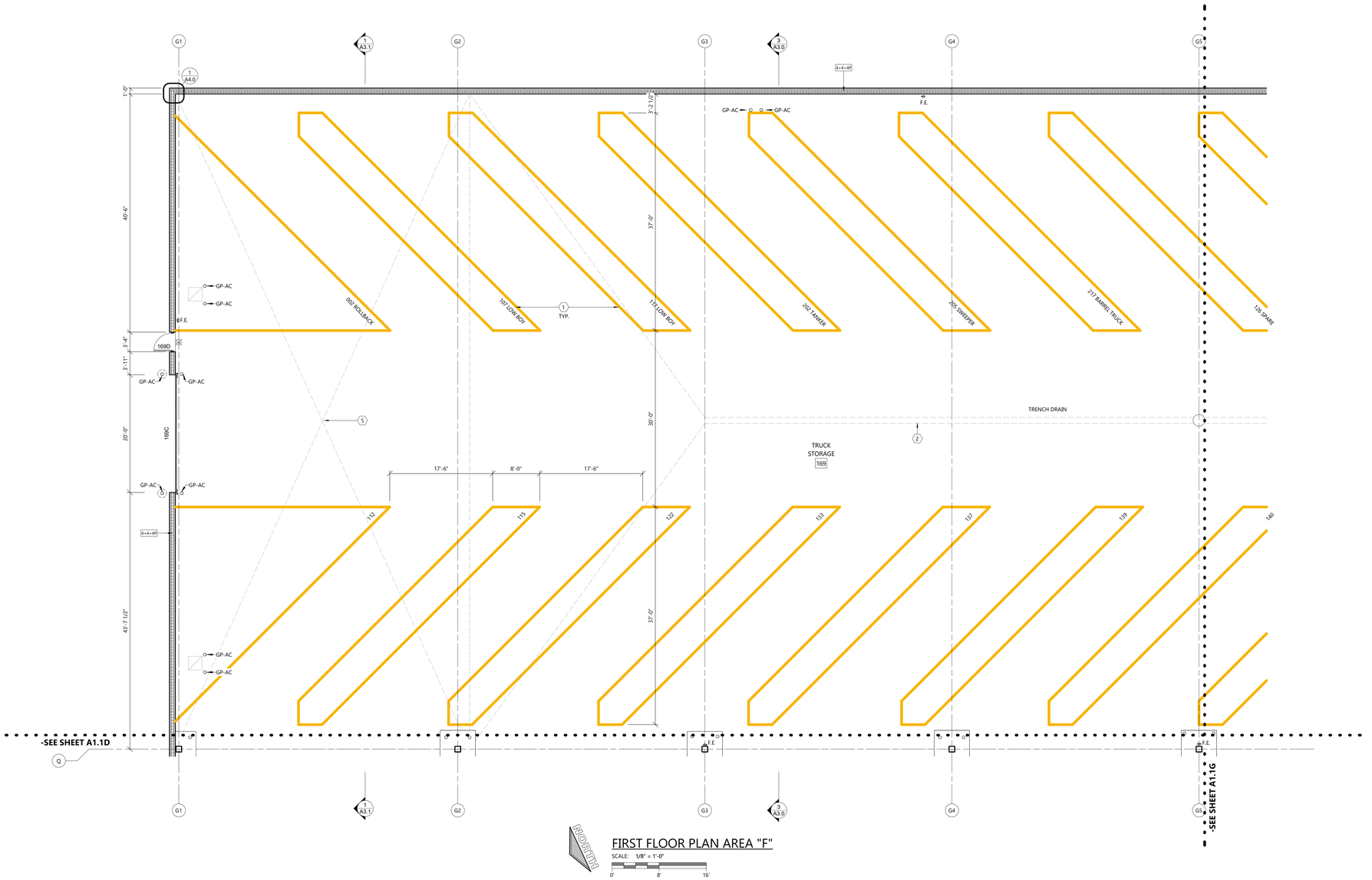

NORTH

FIRST FLOOR PLAN AREA "F"

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

0' 8' 16'

SYMBOLS LEGEND

- EM1 — EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 4W22 — INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 3+3+6P — PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 6M33.2 FW — FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FE5 — FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

- NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
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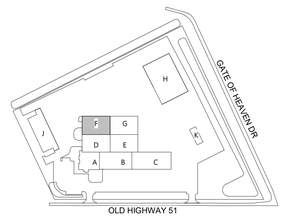
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" 'V' REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

FLOOR PLAN KEYNOTES

1	PROPOSED INTERIOR PARKING, FORKLIFT, WALK PATH STRIPING. FINAL LAYOUT TO BE CONFIRMED BY OWNER PRIOR TO PAINTING. STALL SIZED TO CONFROM WITH LOCAL AND STATE CODES.
2	FORMED CONCRETE TRENCH DRAIN. SEE STRUCTURAL PLANS
5	CATCH BASIN. SEE PLUMBING PLANS



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'F' - MAIN BUILDING

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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

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APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
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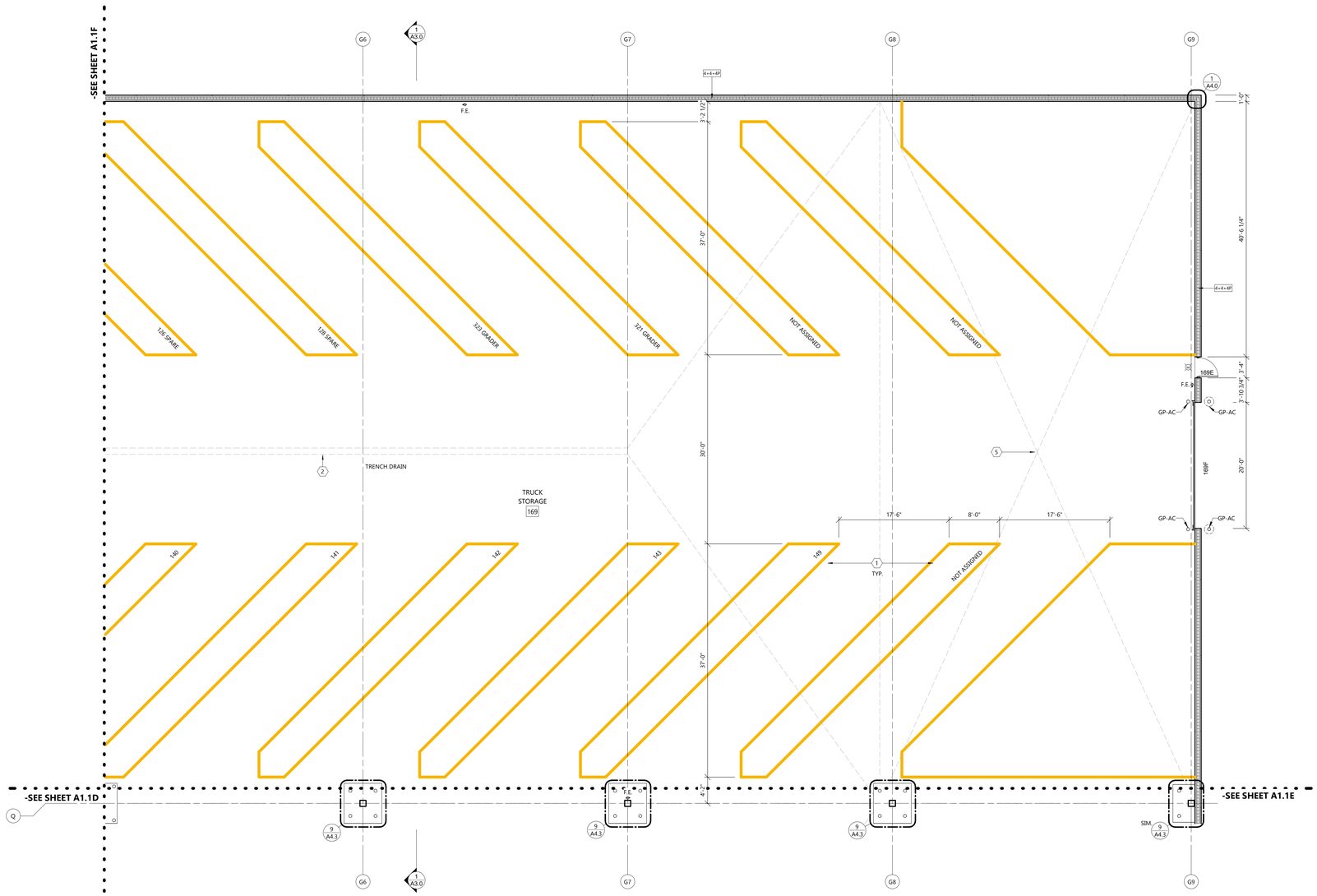

NORTH

FIRST FLOOR PLAN AREA "G"

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

0' 8' 16'

SYMBOLS LEGEND

- EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
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- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
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FLOOR PLAN KEYNOTES

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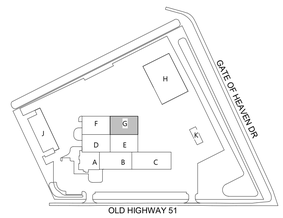
5	CATCH BASIN. SEE PLUMBING PLANS



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'G' - MAIN BUILDING

EXCEL
Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

COLLABORATION
Miron
Building Excellence
Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
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OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

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JULY 23, 2026

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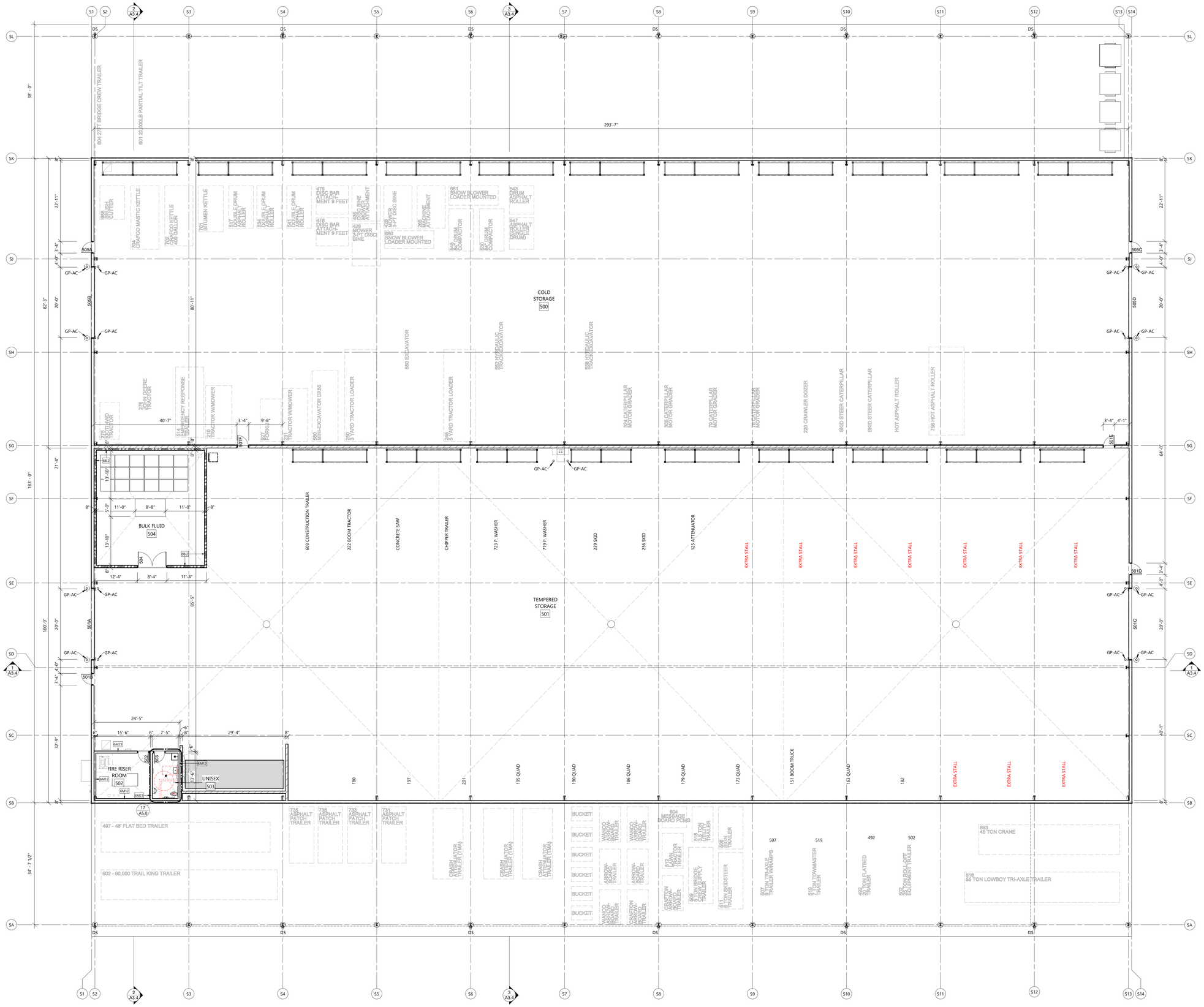

SYMBOLS LEGEND

- EM1 — EXTERIOR WALL TYPE
  - SEE A4 SHEETS FOR WALL TYPES
- 4W22 — INTERIOR WALL TYPE
  - SEE A4 SHEETS FOR WALL TYPES
- 3+3+6P — PRECAST WALL TYPE
  - SEE A4 SHEETS FOR WALL TYPES
- 6M23.2 FW — FIRE RATED WALL TYPE
  - SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FE — FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

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(#) FLOOR PLAN KEYNOTES

EXCEL
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COLLABORATION
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PROJECT INFORMATION

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MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

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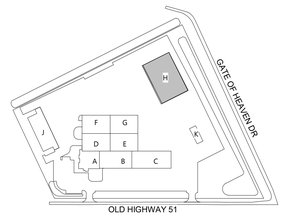
JOB NUMBER
250008600

SHEET NUMBER
A1.1H



KEY PLAN

FIRST FLOOR PLAN AREA "H"
SCALE: 3/32" = 1'-0"
0' 8' 16'

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'H' - TEMPERED STORAGE

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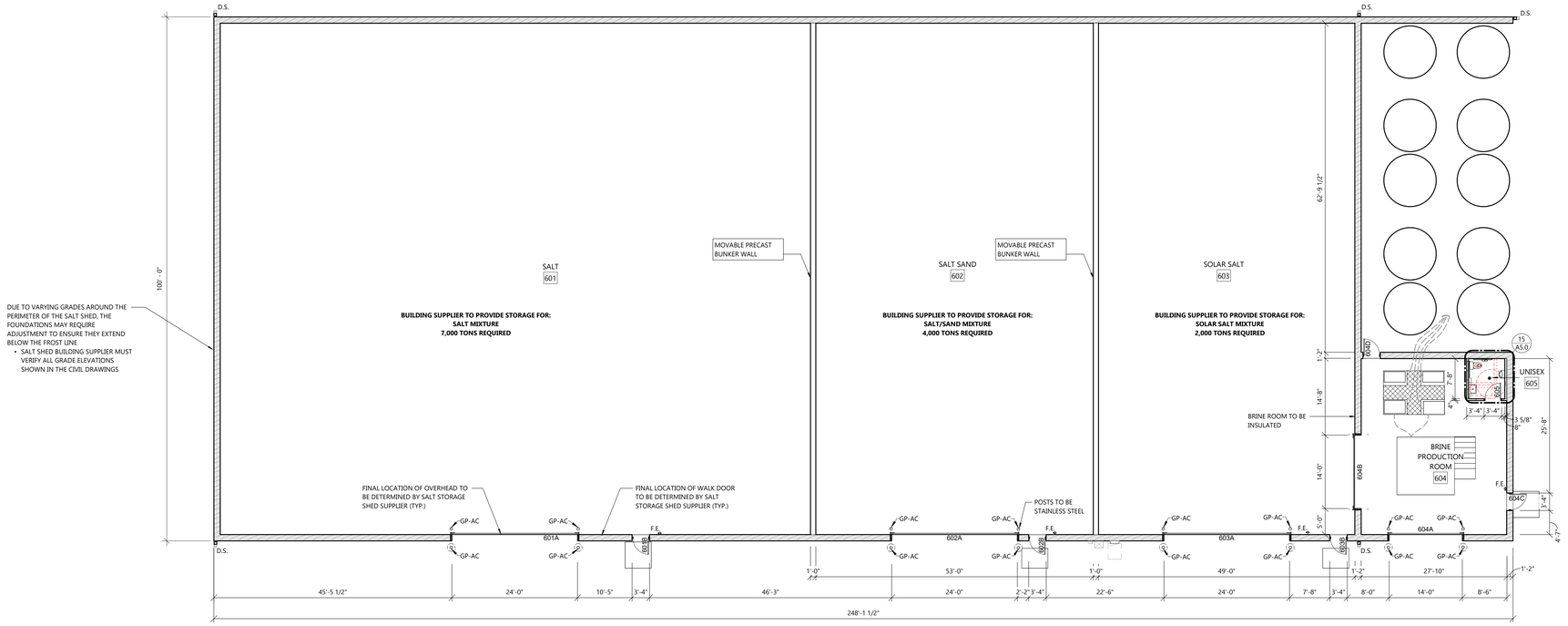


NORTH

FIRST FLOOR PLAN AREA "I"

SCALE: 3/32" = 1'-0"

SYMBOLS LEGEND

- EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

- NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
- SEE SPECIFICATIONS FOR WORK BY OWNER. WORK BY OWNER SHOWN ON PLANS IS SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE SPECIFIC INSTALLATION REQUIREMENTS WITH OWNER/OWNER'S VENDOR.
- LOCATE ALL DOORS IN METAL STUD AND MASONRY WALLS 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" 'V' REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

(#) FLOOR PLAN KEYNOTES

EXCEL
Always a Better Plan
100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

COLLABORATION
Miron
Building Excellence
Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
FEB. 6, 2026
MAR. 9, 2026
MAR. 27, 2026
APR. 2, 2026
APR. 15, 2026
MAY. 15, 2026
JUNE 10, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
A1.1J

SAND & SALT SHED BID SPECIFICATIONS

A. WORK OF THIS SECTION SHALL CONSIST OF THE FURNISHING AND INSTALLATION OF A COMPLETE SAND SALT STORAGE SHED STRUCTURE.
B. BUILDING SHALL BE WEATHERTIGHT AND SUITABLE FOR THE STORAGE OF SAND SALT AND OTHER MATERIALS USED FOR ROADWAY ABRASIVES. DESIGN OF THE FOUNDATIONS SHALL BE PROVIDED AS PART OF THE MANUFACTURER'S BUILDING DESIGN BASED ON INFORMATION OBTAINED FROM THE SUBSURFACE INVESTIGATION AND GEOTECHNICAL ANALYSIS PROVIDED BY THE OWNER.
   1. PROVIDE ALL REQUIRED FOOTINGS, FOUNDATIONS, AND/OR OTHER REQUIRED SUBSTRUCTURES OR SUPPORTS AT THE REQUIRED ELEVATIONS ON PROPERLY PREPARED SUBGRADE AS REQUIRED FOR THE ERECTION OF THE COMPLETE STORAGE BUILDING.
   2. FOUNDATIONS SHALL BE OF SIZE AND DEPTH REQUIRED TO RESIST FROST ACTION.
C. BUILDING SHALL BE RECTANGULAR WITH WALLS SUPPORTED WITH EXTERNAL BRACING TO WITHSTAND LATERAL LOAD OF INTERNAL MATERIAL. BRACING MAY BE EXPOSED ABOVE GRADE. BUILDING IS TO HAVE A STANDING SEAM GABLE ROOF WITH OVERHEAD DOORS ON THE EAST BEARING WALL.
   1. PROVIDE EXTERIOR GRADE STAINLESS STEEL SWING-OUT SERVICE DOOR IN EAST WALL. DOOR SHALL BE RATED FOR HIGH USE AND HIGH IMPACT RESISTANCE. PROVIDE HEAVY DUTY STAINLESS STEEL HINGES, HEAVY DUTY STAINLESS STEEL LEVER LOCKSET, STAINLESS STEEL KICKPLATE AND WEATHERSTRIPPING. SEE DOOR SCHEDULE
D. BUILDING IS TO BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CODES.
   1. BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR SCHEDULING, SUBMITTING AND OBTAINING APPROVAL OF BUILDING PLANS.
E. DESIGN BUILDING TO MEET OR EXCEED APPLICABLE SNOW LOAD; WIND LOAD AND SEISMIC CATEGORY REQUIREMENTS.
F. SUBMIT THE FOLLOWING TO EXCEL ENGINEERING FOR REVIEW:
   1. COMPLETE DRAWINGS, TOGETHER WITH DETAILED SPECIFICATIONS AND DATA COVERING MATERIAL, AND ACCESSORIES FURNISHED. DRAWINGS SHALL COVER ALL COMPONENT AND DETAIL INFORMATION NECESSARY FOR THE DESIGN
G. BUILDING REQUIREMENTS:
   1. SEE PLAN FOR SALT AND SAND SALT STORAGE CAPACITY REQUIREMENTS
   2. 30' TRUSS BEARING
H. ALL STRUCTURAL TIMBER PRODUCTS FURNISHED FOR THE BUILDING SHALL BE COMPLY WITH THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
I. PRESERVATIVE TREATMENT OF LUMBER AND TIMBER SHALL BE BY THE PRESSURE PROCESS, AND UNLESS OTHERWISE PROVIDED IN THE CONTRACT SPECIAL PROVISIONS, BE IN ACCORDANCE WITH AWPA STANDARDS AND AASHTO DESIGNATION M 133.
   1. LUMBER AND TIMBER SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS TO BE TREATED WITH COPPER NAPHTHENATE IN TYPE A HYDROCARBON SOLVENT IN ACCORDANCE WITH AWPA P-36 AND HAS-14 TO MEET UC4C UNLESS NOTED. OTHER TIMBER PRESERVATIVES WILL NOT BE CONSIDERED.
   2. AS FAR AS PRACTICAL, ALL ADAZING, BORING, CHAMFERING, FRAMING, GAINING, MORTISING, SURFACING AND GENERAL FRAMING SHALL BE DONE PRIOR TO TREATMENT. IF CUT AFTER TREATMENT, COAT CUT SURFACES ACCORDING TO AWPA M4.
J. ALL HARDWARE SHALL MEET ASTM A307-21 GRADE A, GALVANIZED TO F2329 OR A153. ALL HIGH STRENGTH HARDWARE SHALL MEET ASTM A 325 OR A449, GALVANIZED TO F2329 OR A153. ALL STRUCTURAL STEEL SHALL MEET ASTM A36, GALVANIZED TO A123.
K. ALL METAL GUSSET PLATES ON TRUSS AND TRUSS TY-DOWNS SHALL BE PAINTED WITH ASPHALT PAINT
L. VENTILATION: PROVIDE VENTILATION TO SATISFY FREE AIR AREAS REQUIRED BY CODE.
M. ELECTRICAL: ELECTRICAL SERVICE TO SATISFY THE NEEDS OF THE BUILDING. LIGHTING SHALL BE INSTALLED TO ILLUMINATE THE FULL INTERIOR OF THE BUILDING. EXTERIOR LIGHTS TO BE INSTALLED ABOVE BOTH THE OVERHEAD DOOR AND SERVICE DOOR. SEE ELECTRICAL PLANS.

GENERAL NOTES FOR BUILDING SUPPLIER

- CONFIRM SALT AND SALT/SAND CAPACITY VOLUMES IS COMPATIBLE WITH OVERALL BUILDING DIMENSIONS
- SALT TO BE PILED 12' HIGH AGAINST THE LOAD-BEARING WALLS
- ADJUST BUILDING SIZE AS REQUIRED
- EXPOSED CONCRETE RETAINING WALL ON THREE SIDES
- FLOOR OF SHED TO BE HEAVY DUTY ASPHALT PAVEMENT. SEE CIVIL SPECIFICATION FOR CONSTRUCTION.
- SEE DOOR SCHEDULE FOR OVERHEAD DOORS AND WALK DOORS
- 3 / 12 SLOPED GABLE STYLE METAL ROOF BY BUILDING SUPPLIER — NEED TO CONFIRM
- BUILDING SUPPLIER RESPONSIBLE FOR SUBMITTAL TO STATE FOR BUILDING REVIEW
- BUILDING AND FOUNDATIONS TO BE DESIGNED AND SUBMITTED BY BUILDING SUPPLIER
- BUILDING CONSTRUCTION TO INCLUDE DOUG FIR, COOPER NAPHTHENATE TREATED TIMBER POST, WALL PLANKS AND PLYWOOD. UNTREATED LUMBER TRUSSES, ROOFING PLYWOOD WITH CONNECTING
- GALVANIZED HARDWARE.
- PROVIDE MOVEABLE CONCRETE WALL BARRIER AS SHOWN ON PLANS

STANDING SEAM METAL ROOF SPECIFICATIONS

MANUFACTURER:
- PAC-CLAD OR APPROVED EQUIVALENT

PRODUCT:
- TITE-LOC PLUS

ROOF
- THICKNESS: 24 ga - 22 ga
- MATERIAL: PREFINISHED GALVANIZED STEEL
- HEIGHT: 2"
- SPACING: 16" O.C.
- COLOR: TO MATCH COMPOSITE PANEL COLOR
- INSTALLATION: INSTALL PER MFR INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. USE CONTINUOUS LONGEST POSSIBLE LENGTH PANELS WITH NO LAPS
- SNOW GUARD: S-5 : COLORGUARD 2.0 SNOW RETENTION SYSTEM
   1. COLOR: TO MATCH ROOF

WARRANTY:
- PROVIDE 30 YEAR WARRANTY

TRANSLUCENT POLYCARBONATE OVERHEAD DOOR SPECIFICATIONS:

MANUFACTURER:
- AMERICAN

PRODUCT:
- SURVIVOR GOLIATH TRANSLUCENT POLYCARBONATE GARAGE DOOR
- PLATINUM - PREMIUM MODEL

CONSTRUCTION:
- 5/8" THICK POLYCARBONATE PANEL
- 3" HEAVY DUTY STAINLESS STEAL ANGLE MOUNTED LIFT TRACK
- LIFT OPTIONS:
   - HIGH LIFT PARTIAL VERTICAL (HLV)
   - (SEE DOOR SCHEDULE FOR LIFT OPTION TYPE)
- OPERATION OPTIONS:
   - 3 PUSH BUTTON (3B)
   - (SEE DOOR SCHEDULE FOR OPERATION OPTION TYPE)
- 50,000 CYCLE SPRINGS
- SIDE MOUNTED HEAVY DUTY GEAR REDUCTION SYSTEM FOR MOTOR OPERATED DOORS
- STANDARD ALUMINUM FINISH
- PROVIDE INTERIOR SIDE LOCK
- PROVIDE SPARE CONTACT TO COORDINATE w/ DOCK LEVELER
- MOTOR OPTIONS:
   - 8'x10' OR SMALLER
      - 1/2 hp, 120 VOLT 9.8 FLA SINGLE PHASE
   - LARGER THAN 8'x10'
      - 1 hp, 208 VOLT 4.8 FLA 3 PHASE
      - 1 hp, 480 VOLT 2.1 FLA 3 PHASE
- THE OVERHEAD DOOR SUPPLIER SHALL ACCOUNT FOR ALL APPLICABLE WIND LOADS, PROVIDE ANY REQUIRED PANEL REINFORCEMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES AND SPECIFICATIONS.

WARRANTY:
- 5 YEAR MANUFACTURERS WARRANTY - MATERIAL AND DEFECT
- 1 YEAR CONTRACTORS WARRANTY

STAINLESS STEEL DOOR SPECIFICATION:

MANUFACTURER:
- LAFORCE STAINLESS STEEL DOORS (APPROVED EQUIVALENT - WEILAND)

CONSTRUCTION:
- DOORS
   - DOOR SKIN TO BE 16 ga., 304 STAINLESS STEEL
   - FULLY WELDED EDGES
   - CORES TO BE 1 1/2" THICK RIGID POLYURETHANE, R VALUE = 11
   - MANUF. SHALL PROVIDE FLUSH, SEALED, & CLOSED STAINLESS STEEL TOPS AND BOTTOMS ON DOORS
   - MANUF. SHALL PROVIDE VERTICAL STEEL STIFFENED DOORS
- FRAMES
   - FULL WELDED FRAMES
   - VERTICAL GRAIN
   - MIN. 16 ga. @ INTERIOR FRAMES
   - MIN. 14 ga. @ EXTERIOR FRAMES
- GENERAL REQUIREMENTS
   - ALL DOORS & FRAMES TO BE REINFORCED AND PREPARED FOR HARDWARE
   - PROVIDE BACK BOXES FOR ALL ELECTRICAL DOOR HARDWARE
   - ALL REINFORCEMENT TO BE MIN. 12 ga.
   - PROVIDE WELDED-IN BASE ANCHORS
   - PROVIDE (3) SURFACE APPLIED SILENCERS PER JAMB @ ALL STAINLESS STEEL DOOR FRAMES
   - PROVIDE STAINLESS STEEL FRAME FOR LITES & GRILLES
   - FINISH #4 SATIN
   - PROVIDE RATED DOORS & FRAMES AS SCHEDULED
   - DOOR FRAME TO BE CARBON FREE. REMOVE ALL RUST FROM FRAME.
   - STAINLESS STEEL
      - PROVIDE 316 STAINLESS STEEL COMPONENTS, FRAMES, ETC. IN BRINE ROOM AND OTHER HIGH CORROSIVE ENVIRONMENTS.

CONFIRM FINISH AND REMOVE THIS NOTE & CLOUD

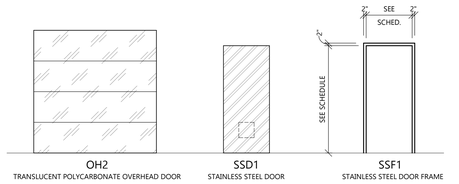
WARRANTY:
- 10 YEARS

GENERAL DOOR AND FRAME NOTES:

- ALL DOORS SHALL MEET A.D.A. REQUIREMENTS
- ALL DOOR THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT
- VERIFY FRAME DEPTHS W/ WALL THICKNESS. PROVIDE WRAP AROUND FRAMES AT STUD WALLS
- PROVIDE SEALANT BOTH SIDES OF DOOR FRAMES, WHERE DIFFERENT MATERIALS MEET AND FOR WEATHER TIGHTNESS
- GENERAL CONTRACTOR TO VERIFY SIZE OF ALL EQUIPMENT (ELECTRICAL, MECHANICAL, KITCHEN, LAUNDRY, ETC.) SELECTED FOR THE PROJECT TO DETERMINE THAT ALL DOORS (INCLUDING PATH OF TRAVEL) ARE OF ADEQUATE SIZE TO ACCOMMODATE INSTALLATION AND REPLACEMENT
- VERIFY ALL ROUGH OPENING REQUIREMENTS WITH MANUFACTURERS DRAWINGS
- SEE SHEET A0.1 FOR GENERAL BUILDING SPECIFICATIONS
- DOOR, FRAME AND HARDWARE SCHEDULE TO BE PROVIDED BY HARDWARE SUPPLIER FOR A/E REVIEW - NUMBERING SYSTEM AND NOMENCLATURE SHALL MATCH THOSE FOUND IN CONSTRUCTION DOCUMENTS
- HARDWARE SUPPLIER IS RESPONSIBLE FOR COORDINATING KEYING REQUIREMENTS WITH OWNER
- ALUMINUM SUPPLIER SHALL FURNISH AND INSTALL ALL HARDWARE FOR ALUMINUM DOORS AS NOTED ON PLANS - THE SAME MANUFACTURERS AND MODELS SHALL BE USED FOR BOTH ALUMINUM AND OTHER DOOR HARDWARE
- CONTRACTOR TO PROVIDE PRODUCTS AND SYSTEMS COMPLETE WITH ALL ACCESSORIES, TRIM, FINISH, FASTENERS AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INTENDED USE AND EFFECT
- DOOR UNDERCUTS, WHERE NOTED, SHALL BE 1" FROM FINISHED FLOOR (TYP.)
- DOOR TRANSFER GRILLES BY DOOR SUPPLIER
   NATIONAL GUARD PRODUCTS MODEL L-700-RX
   -PAINT TO MATCH DOOR FRAME
   NATIONAL GUARD PRODUCTS MODEL L-700-C
   -PAINT TO MATCH DOOR FRAME
   SIGHT PROOF, V-SLAT WOOD LOUVER
   -STAIN AND VARNISH TO MATCH DOOR
- SEE ELECTRICAL PLANS FOR DOOR CARD READER LOCATIONS
- SEE FLOOR PLANS & STRUCTURAL FOUNDATION PLANS FOR GUARD POST AND GOAL POST LOCATIONS

DOOR SCHEDULE

DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	FRAME TYPE	JAMB/HEAD WRAP	FIRE RATING	UNDERCUT OR GRILLE (W x H)	DOOR HARDWARE HINGE	LOCKSET	STOPS	CLOSER	EXIT DEVICE	PUSH-PULL / KICK	MISC.	W.S., SWEEP, THRESHOLD	DOOR OPTIONS OPERATION	LIFT	REMARKS
601A	24'-0"	28'-0"	OH1	-		--	--	--	--	--	--	--	--	--	--	3B	HLV	
601B	3'-0"	7'-0"	SSD1	SSF1		--	--	H4	L4	S5	C6	--	--	K1	T3,SW1,WS1	--	--	
602A	24'-0"	28'-0"	OH2	-		--	--	--	--	--	--	--	--	--	--	3B	HLV	
602B	3'-0"	7'-0"	SSD1	SSF1		--	--	H4	L4	S5	C6	--	--	K1	T3,SW1,WS1	--	--	
603A	24'-0"	28'-0"	OH2	-		--	--	--	--	--	--	--	--	--	--	3B	HLV	
603B	3'-0"	7'-0"	SSD1	SSF1		--	--	H4	L4	S5	C6	--	--	K1	T3,SW1,WS1	--	--	
604A	14'-0"	16'-0"	OH2	-		--	--	--	--	--	--	--	--	--	--	3B	HLV	
604B	14'-0"	16'-0"	OH2	-		--	--	--	--	--	--	--	--	--	--	3B	HLV	
604C	3'-0"	7'-0"	SSD1	SSF1		--	--	H6	L4	S4	C6	--	--	K2	T3,SW1,WS1	--	--	
604D	3'-0"	7'-0"	SSD1	SSF1		--	--	H6	L4	S4	C6	--	--	K2	T3,SW1,WS1	--	--	
605	3'-0"	7'-0"	MD1	HM1		--	--	H1	L13	S2	C1	--	--	K1	--	--	--	



DOOR AND FRAME ELEVATIONS

DOOR HARDWARE KEY

	HINGES			
	DESCRIPTION / FINISH	Ives	Hager	McKinney	Stanley
H1	STANDARD (626)	SB81	BB1279	TAZ714	FBB179
H4	HEAVY (630)	SB81HW SS	BB1199	T4A3386	FBB199

	CONTINUOUS HINGES			
	DESCRIPTION / FINISH	Roton (Hager)	McKinney	Select	Pemko
H6	AL. GEAR TYPE (630)	780-224HD	MCK-25HD	SL-24HD600	CFMHD

	LOCKSETS			
	DESCRIPTION / FINISH	Schlage ND Series (RHO)	Sargent 10X-Line (LL)	Best 9K (15D)
L4	STOREROOM (626)	ND80PD	10XG04	9K D
		Sargent 8200 (L)		
L13	MORTISE PRIVACY (626)	66 PRIVACY + 49 OCC INDICATOR		

	STOPS			
	DESCRIPTION / FINISH	Ives	Hager	Rockwood
S2	WALL MTD. (626)	WS407CCV	230W	409

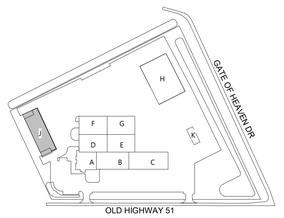
	OVERHEAD STOPS			
	DESCRIPTION / FINISH	Glynn-Johnson	Sargent	Rixson
S4	HD CONCEALED (630)	100 Series	690	1 Series
S5	STD. CONCEALED (630)	410 Series	1530	2 Series

	CLOSERS			
	DESCRIPTION / FINISH	LCN	Sargent	Norton
C1	PULL SIDE REG. (689)	4040 XP REG	351 O	
C6	PUSH SIDE EXT. DOORS (689)	4040XP SCUSH	351 CPS	UNI7501

	PUSH-PULL / KICKPLATES			
	DESCRIPTION / FINISH	Rockwood	Hager	Ives
K1	KICKPLATE 8"x2"LDW (630)	K1050-B4E	190S	8400
K2	KICKPLATE 32"x2"LDW (630)	K1050-B4E	190S	8400

	WEATHERSTRIP, SWEEPS, & THRESHOLDS			
	DESCRIPTION	National Guard	Reese	Pemko
T3	SS THERMAL THRESHOLD			252-.55SFG
SW1	SWEEP	200NA	772	315N
WS1	WEATHERSTRIP	160VA	DS106C	294AV

	MOTORIZED DOOR OPTIONS		
	OPERATION DESCRIPTION		
3B	3 PUSH BUTTON		
	LIFT DESCRIPTION		
HLV	HIGH LIFT PARTIAL VERTICAL		



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'J' - SALT SHED

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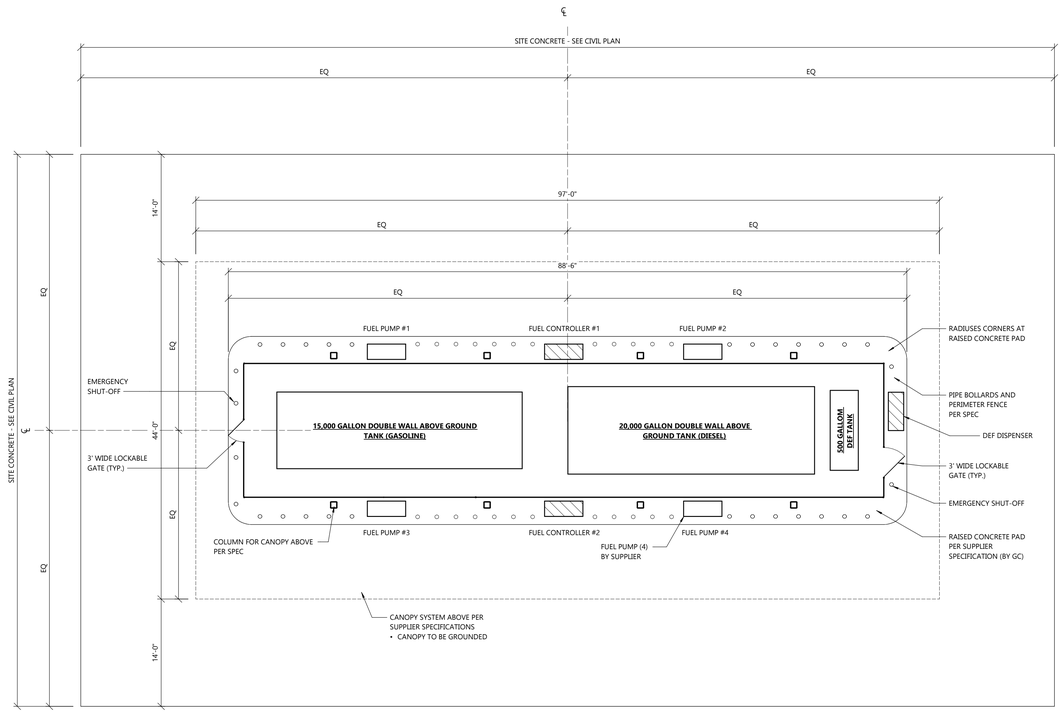


NORTH

FIRST FLOOR PLAN AREA "K"

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

FUEL ISLAND BID SPECIFICATIONS:

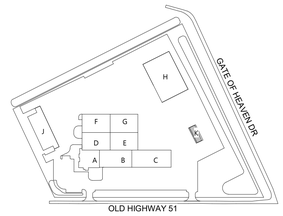
A. THE SCOPE OF WORK WOULD INCLUDE EQUIPMENT PURCHASE, DESIGN AND INSTALLATION, OF FUEL ISLAND EQUIPMENT AND SYSTEMS, FUEL ISLAND CANOPY, FUEL MANAGEMENT FACILITIES, TANK GAUGING FACILITIES, ELECTRICAL COMPONENTS, AND ALL OTHER INCIDENTAL ITEMS AND EQUIPMENT NECESSARY TO COMPLETE THE PROJECT AS INCLUDED IN SPECIFICATIONS.
B. PRODUCTS SHALL BE PRODUCED BY MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF SIMILAR ITEMS AND WITH A HISTORY OF SUCCESSFUL PRODUCTION ACCEPTABLE TO OWNER/ARCHITECT.
C. INSTALLERS SHALL BE CERTIFIED AND HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN THE FIELD OF FUEL EQUIPMENT SYSTEMS INSTALLATION.
D. OWNER WILL PROVIDE IT ASSISTANCE IN SETTING UP AND ESTABLISHING COMMUNICATION BETWEEN THE MAIN FUELING PC'S AND THE TANK GAUGING AND FUEL MANAGEMENT SYSTEMS. THE INTENT OF THE EQUIPMENT WILL BE TO ESTABLISH COMMUNICATION TO ALL FUEL MANAGEMENT AND TANK GAUGING EQUIPMENT OVER THE INTERNET/INTRANET. THE VENDOR IS TO BE ABLE TO ACCESS THE FUEL MANAGEMENT EQUIPMENT FOR MAINTENANCE AND TROUBLE SHOOTING VIA THE INTERNET/INTRANET.
E. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, ARRANGE FOR INSPECTIONS AND OBTAIN APPROVALS FROM THE APPROPRIATE AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL OBTAIN PERMITS AND PAY FEES AS REQUIRED BY THE WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PER SPS 310 CODE AND COORDINATE ALL INSTALLATION INSPECTIONS AND FINAL APPROVAL AT ALL FUELING LOCATIONS FOR THE OWNER. ANY PERMIT CHANGES WILL BE COORDINATED BETWEEN THE DSPS, OWNER AND THE CONTRACTOR. WORK SHALL BE PERFORMED BY CONTRACTORS THAT ARE STATE OF WISCONSIN CERTIFIED TANK INSTALLERS.
F. SUBMIT THE FOLLOWING INFORMATION AND SHOP DRAWINGS IN ACCORDANCE WITH THE SUBMITTAL MATRIX INDICATED ON THE PLANS:
   1. PRODUCT DATA: FOR EACH PRODUCT TYPE.
   2. FUEL AND DEF TANKS
   3. TANK GAUGE EQUIPMENT AND TANK CONSOLES
   4. FUEL MANAGEMENT EQUIPMENT
   5. ELECTRICAL EQUIPMENT AND COMPONENTS
   6. DESIGN DRAWINGS: FOR FUEL ISLAND EQUIPMENT AND CANOPY, WITH CALCULATIONS, PREPARED AND STAMPED BY DESIGN ENGINEER.
G. DELIVER ALL MATERIALS TO THE JOB SITE IN THEIR ORIGINAL UNOPENED CONTAINERS WITH ALL LABELS INTACT AND LEGIBLE AT TIME OF USE. STORE IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
H. USE ALL MEANS NECESSARY TO PROTECT ALL MATERIALS BEFORE, DURING AND AFTER INSTALLATION AND TO PROTECT INSTALLED WORK AND MATERIALS OF ALL OTHER TRADES.
   1. IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY TO THE APPROVAL OF THE OWNER/ARCHITECT/ENGINEER, AND AT NO ADDITIONAL COST TO THE OWNER.
I. INSPECT INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE WORK OF THIS SECTION MAY PROPERLY COMMENCE AND THAT EQUIPMENT CAN BE INSTALLED IN STRICT ACCORDANCE WITH ALL PERTINENT CODES AND REGULATIONS.
   1. DO NOT BEGIN INSTALLATION UNTIL ALL SURFACES AND CONDITIONS ARE SATISFACTORY FOR THE INSTALLATION OF THE FUEL ISLAND EQUIPMENT.
J. PREPARE THE SITE TO ENSURE ADEQUATE SUPPORT FOR THE TANK SYSTEM AND DRAINAGE OF SURFACE WATER.
K. MAINTAIN LEGAL SEPARATION DISTANCES FROM PROPERTY LINES, BUILDINGS, PUBLIC WAYS, DISPENSERS, VEHICLES BEING FUELED AND OTHER STORAGE TANKS.
L. TANKS SHALL BE HANDLED, LIFTED, STORED AND SECURED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
M. TANK AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE FIRE SAFETY CODES, REGULATIONS, STANDARDS AND MANUFACTURER'S INSTRUCTIONS.
N. NO MODIFICATIONS SHALL BE MADE TO ANY TANK WITHOUT THE PRIOR WRITTEN APPROVAL OF THE MANUFACTURER AND ENGINEER.
O. ANY PORTION OF THE FUELING SYSTEM IN CONTACT WITH THE SOIL SHALL BE PROTECTED FROM CORROSION IN ACCORDANCE WITH SOUND ENGINEERING PRACTICE AND IN ACCORDANCE WITH NFPA 30A (2-4.8).
P. PROTECT ABOVE GROUND PIPING AND EQUIPMENT FROM CORROSION BY PAINTING OR WRAPPING WITH A COATING WHICH IS COMPATIBLE WITH THE PRODUCT STORED AND THE CONDITIONS OF THE EXPOSURE.
Q. VISUALLY INSPECT TANKS AND PIPING FOR DAMAGE AT TIME OF DELIVERY AND JUST PRIOR TO INSTALLATION.
R. INSTALL TANKS, DISPENSERS, PIPING AND EQUIPMENT IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, INDUSTRY STANDARD RECOMMENDED PRACTICES AND FEDERAL, STATE AND LOCAL REGULATIONS.
   1. CALIBRATION AND START-UP OF EQUIPMENT SHALL BE PERFORMED BY FACTORY TRAINED AND QUALIFIED PERSONNEL.
S. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SHALL CONFORM TO STATE AND LOCAL ELECTRICAL CODES.
T. TESTING SHALL BE PERFORMED IN CONFORMANCE WITH THE MANUFACTURER'S INSTRUCTIONS, STATE LAWS AND QUOTED INDUSTRY STANDARDS.
   1. CONTRACTOR TO TEST ALL INSTALLED SYSTEMS FOR CALIBRATION, LIQUID TIGHTNESS AND PROPER OPERATION.
U. PROVIDE INSTRUCTION OF OWNER PERSONNEL ON THE PROPER OPERATION AND MAINTENANCE OF ALL COMPONENTS.
V. FUEL ISLAND EQUIPMENT PACKAGE TO INCLUDE THE FOLLOWING:
   1. ONE (1) 20,000 GALLON DOUBLE WALL ABOVE GROUND TANK FOR DIESEL FUEL
   2. ONE (1) 12,000 GALLON DOUBLE WALL ABOVE GROUND TANK FOR GASOLINE
   3. ONE (1) 500 GALLON DOUBLE WALL INSULATED ABOVE GROUND TANK FOR DEF
   4. TANK ACCESSORIES:
      A. 5 GALLON ALUMINUM FILL/SPILL WITH DROP TUBE AND FLIP CAP
      B. CLOCK GAUGE WITH OVERFILL ALARM
      C. P/V VENT CAP FOR GASOLINE TANK
      D. FLANGED E-VENTS
      E. TANK DECALS AND LABELS
      F. CONFIRM QUANTITY OF REQUIRED PORTS AT EACH NEW TANK WITH OWNER(FUEL HAULERS GAUGE & MONITORING PORT)
   5. ABOVE GRADE PIPING
   6. TANK GAUGE (TG) OR TANK LEVEL INDICATOR (TLI) EQUIPMENT AND TANK CONSOLES
   7. ELECTRICAL EQUIPMENT AND COMPONENTS
   8. FOUR (4) HIGH FLOW DISPENSERS: GASBOY ATLAS 9850 ULTRA-HI FLOW SERIES 50 GPM (DIESEL) AND 20-25GPM (GASOLINE)
   9. TWO (2) DOUBLE WALL FLEXIBLE HOSES AT EACH DISPENSER – 10' MINIMUM LENGTH. ¾" DIAMETER FOR GAS AND 1" DIAMETER FOR DIESEL.
   10. EACH DISPENSER TO SUPPLY BOTH GASOLINE AND DIESEL FUEL. DEF DISPENSED AT DEF TANK ONLY.
   11. BREAKAWAYS AND SWIVELS
   12. FUEL MANAGEMENT SYSTEM: ???? (NO SUBSTITUTE)
   13. SYSTEM TO BE COMPLIANT WITH CURRENT SYSTEMS
   14. PROVIDE 4 HOURS OF OWNER TRAINING ON FUEL MANAGEMENT AND TANK GAUGING SYSTEMS
   15. PROVIDE CURRENT SOFTWARE AND SOFTWARE LICENSING FOR FUEL MANAGEMENT SYSTEM.
   16. PROVIDE TANK MONITORS AND GAUGING EQUIPMENT ALONG WITH COMPATIBLE SENSORS, PROBES, EXTERNAL OVERFILL ALARMS AND CABLING.
   17. PROVIDE TWO SUBMERSIBLE PUMPS PER TANK FOR EQUIPMENT REDUNDANCY.
   18. TWO (2) EMERGENCY SHUT-OFFS LOCATED AS SHOWN ON PLANS
   19. GROUNDING ROD AND CABLE FOR CANOPY
   20. ALL ABOVEGROUND STORAGE TANKS (AST) TO BE GROUNDED
   21. FUEL ISLAND CANOPY DESIGN AND INSTALLATION (MANUFACTURES STANDARD COLOR SELECTED BY ARCHITECT)
W. CANOPY STRUCTURE:
   1. FURNISH AND INSTALL A NEW CANOPY TO COVER TANKS AND FUELING LANES PER THE FOLLOWING:
   2. 42' X 97' X 19' (16' TO UNDERSIDE) CANOPY 3' WHITE LAMINATED FASCIA
   3. SHAPE: RECTANGLE - FLAT DECK
   4. FASCIA: BRONZE COLOR
   5. DRAINAGE: DOWN SPOUTS LOCATED AT EXTERIOR OF CANOPY COLUMNS
   6. DECK PANEL: SMOOTH - BRONZE COLOR
   7. VENTS: PROVIDE ACCESS PANELS AS REQUIRED OVER FUEL TANKS.
   8. CANOPY TO BE A FOUR-COLUMN WITH FOUNDATION BELOW BY FUEL ISLAND SUPPLIER
   9. PAINTING OF CANOPY COLUMNS. SEE SHOP APPLIED COATING SCHEDULE.
   10. CANOPY LIGHTING – DARK BRONZE COLOR - LED 4000K WITH MINIMUM 25 FOOT CANDLES AT PAVEMENT WITH DUSK/DAWN AND MOTION SENSORS
   11. CHAIN LINK FENCE AROUND PERIMETER OF RAISED CONCRETE TANK SLAB WITH ACCESS DOORS TO FUEL TANKS DETERMINED BY SUPPLIER
   12. 6" DIAMETER CRASH BOLLARDS FILLED WITH CONCRETE AT 48" O.C., 6' TALL WITH YELLOW POLYETHYLENE SLEEVE PROTECTORS.
X. CANOPY FOOTINGS:
   a. CANOPY FOOTINGS ENGINEERED BY SUPPLIER.
Y. CONCRETE AND COLLISION PROTECTION:
   1. SITE PREP, FILL AND PREPARE FOR NEW CONCRETE AS SPECIFIED ON CIVIL AND ARCHITECTURAL DRAWINGS TO BE PERFORMED BY THE GENERAL CONTRACTOR
   2. 6" RAISED CONCRETE PAD. SIZE CONCRETE PAD TO BE ABLE TO FIT THE NEW TANKS, EQUIPMENT, FENCE, BOLLARDS, AND STRUCTURE FOR THE CANOPY ABOVE.
   3. BOLLARDS FOR COLLISION PROTECTION TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR
   4. YELLOW PVC BOLLARD COVERS WITH REFLECTIVE STRIPES PROVIDED BY FUEL SYSTEM CONTRACTOR
Z. EMERGENCY/SAFETY EQUIPMENT AND SIGNAGE:
   1. FIRE EXTINGUISHERS WITH CABINETS AS REQUIRED BY CODE
   2. EMERGENCY STOP AND SAFETY/WARNING SIGNS LOCATED AS REQUIRED BY CODE
AA. WARRANTY
   1. ONE (1) YEAR PARTS AND LABOR FROM DATE OF SUBSTANTIAL COMPLETION

GENERAL NOTES FOR BUILDING SUPPLIER

- ADJUST CANOPY SIZE AS REQUIRED
- FUEL ISLAND SUPPLIER RESPONSIBLE FOR SUBMITTAL TO STATE FOR BUILDING REVIEW
- FUEL ISLAND AND FOUNDATIONS TO BE DESIGNED AND SUBMITTED BY BUILDING SUPPLIER
- SEE CIVIL PLAN FOR ADDITIONAL INFORMATION.

ARE HIGH HOSE RETRACTORS DESIRED?

WHAT FUEL MANAGEMENT SYSTEM IS THE COUNTY GOING WITH?



KEY PLAN

ARCHITECTURAL FIRST FLOOR PLAN - AREA 'K' - FUEL ISLAND

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COLLABORATION
Miron
Building Excellence
Miron Construction Co., Inc.
1471 McMahon Drive
Neenah, WI 54956

PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES

APR. 15, 2026
JUNE 4, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER

250008600

SHEET NUMBER

A1.1K

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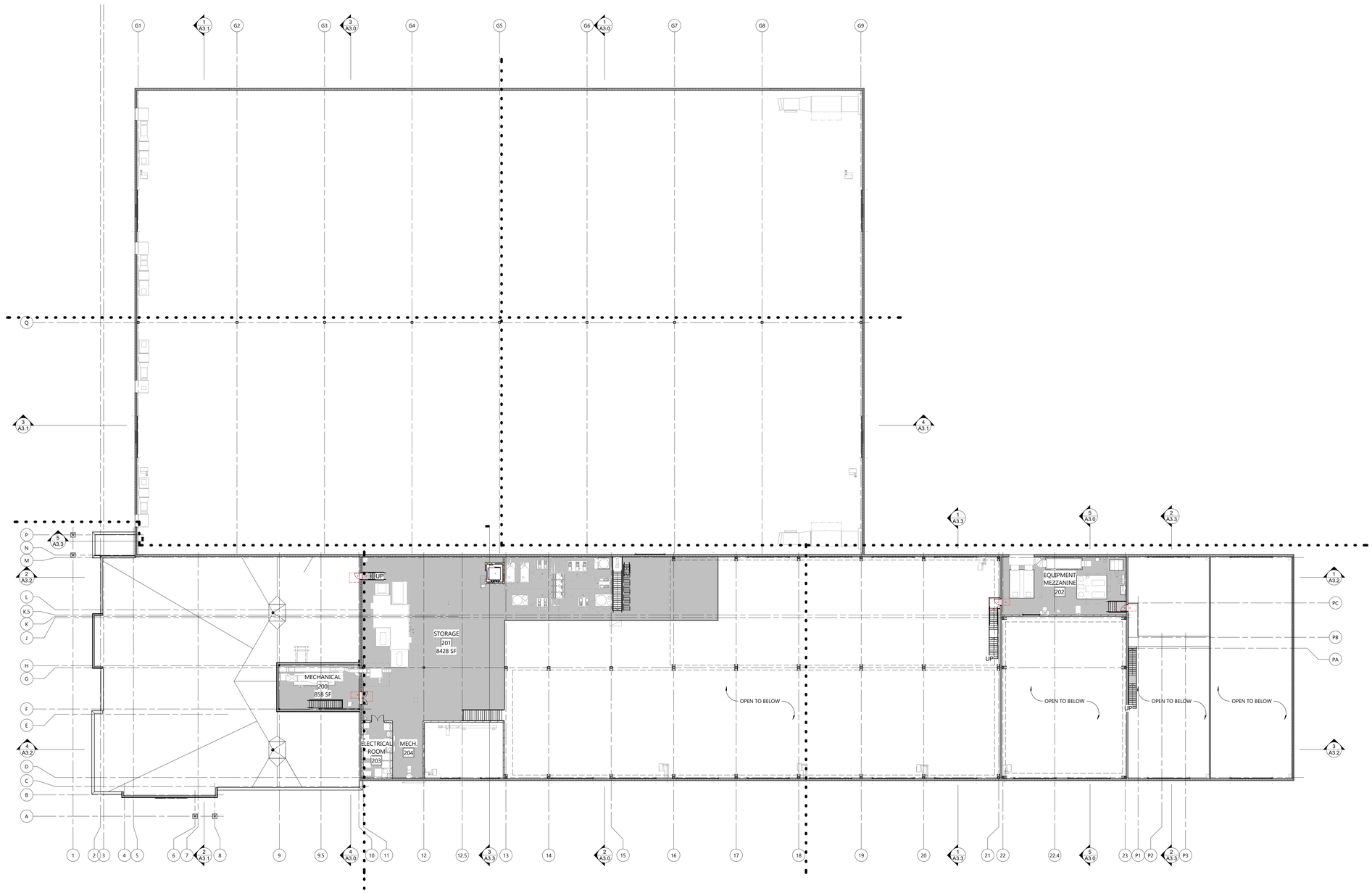
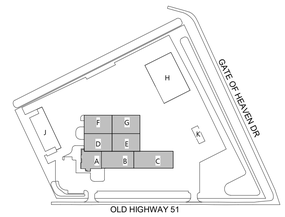


NORTH

SECOND FLOOR PLAN - OVERALL

SCALE: 3/64" = 1'-0"

0' 16' 32'



KEY PLAN

ARCHITECTURAL OVERALL SECOND FLOOR PLAN - MAIN BUILDING

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MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

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FEB. 6, 2026
MAR. 2, 2026
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
A1.2

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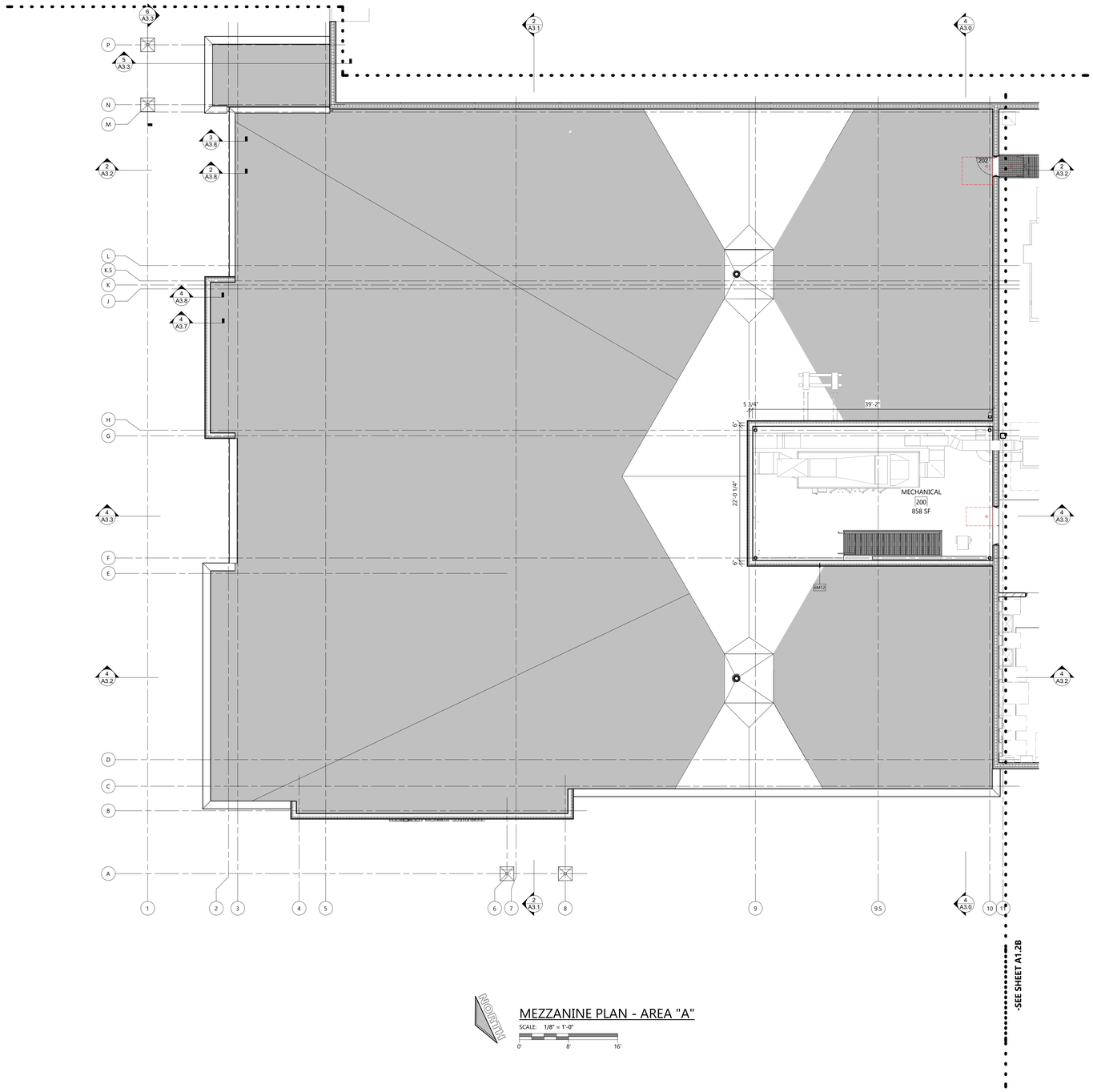


NEIGHBORING

MEZZANINE PLAN - AREA "A"

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

0' 8' 16'

SYMBOLS LEGEND

- EXTERIOR WALL TYPE (8M1) • SEE A4 SHEETS FOR WALL TYPES
- INTERIOR WALL TYPE (4W22) • SEE A4 SHEETS FOR WALL TYPES
- PRECAST WALL TYPE (3+3+6P) • SEE A4 SHEETS FOR WALL TYPES
- FIRE RATED WALL TYPE (6M23.2 FW) • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

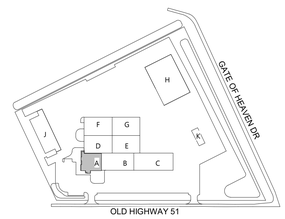
SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
- SEE SPECIFICATIONS FOR WORK BY OWNER. WORK BY OWNER SHOWN ON PLANS IS SUBJECT TO CHANGE. CONTRACTOR TO COORDINATE SPECIFIC INSTALLATION REQUIREMENTS WITH OWNER/OWNER'S VENDOR.
- LOCATE ALL DOORS IN METAL STUD AND MASONRY WALLS 4" FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- INSTALL FIRE-TREATED WOOD BLOCKING FOR OWNER AND CONTRACTOR PROVIDED FURNISHINGS, EQUIPMENT AND WINDOW TREATMENTS (VERIFY LOCATIONS).
- INSTALL GYPSUM BOARD CONTROL JOINT WITH 1/4" 'V' REVEAL. POSITION ABOVE JAMB OF WALL OPENING.
- FILL EXTERIOR LIGHT GAUGE STUD FRAMING (CLOSED JAMBS, HEADERS, ETC.) WITH MINERAL WOOL INSULATION.
- COMPLETELY CONCEAL ALL SPRAY FOAM AT INTERIOR SIDE OF EXTERIOR WALLS WITH GYPSUM BOARD OR INTUMESCENT COATING (CODE REQUIRED THERMAL BARRIER).

(#) FLOOR PLAN KEYNOTES



KEY PLAN

ARCHITECTURAL MEZZANINE PLAN - AREA 'A' - MAIN BUILDING

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APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
A1.2A

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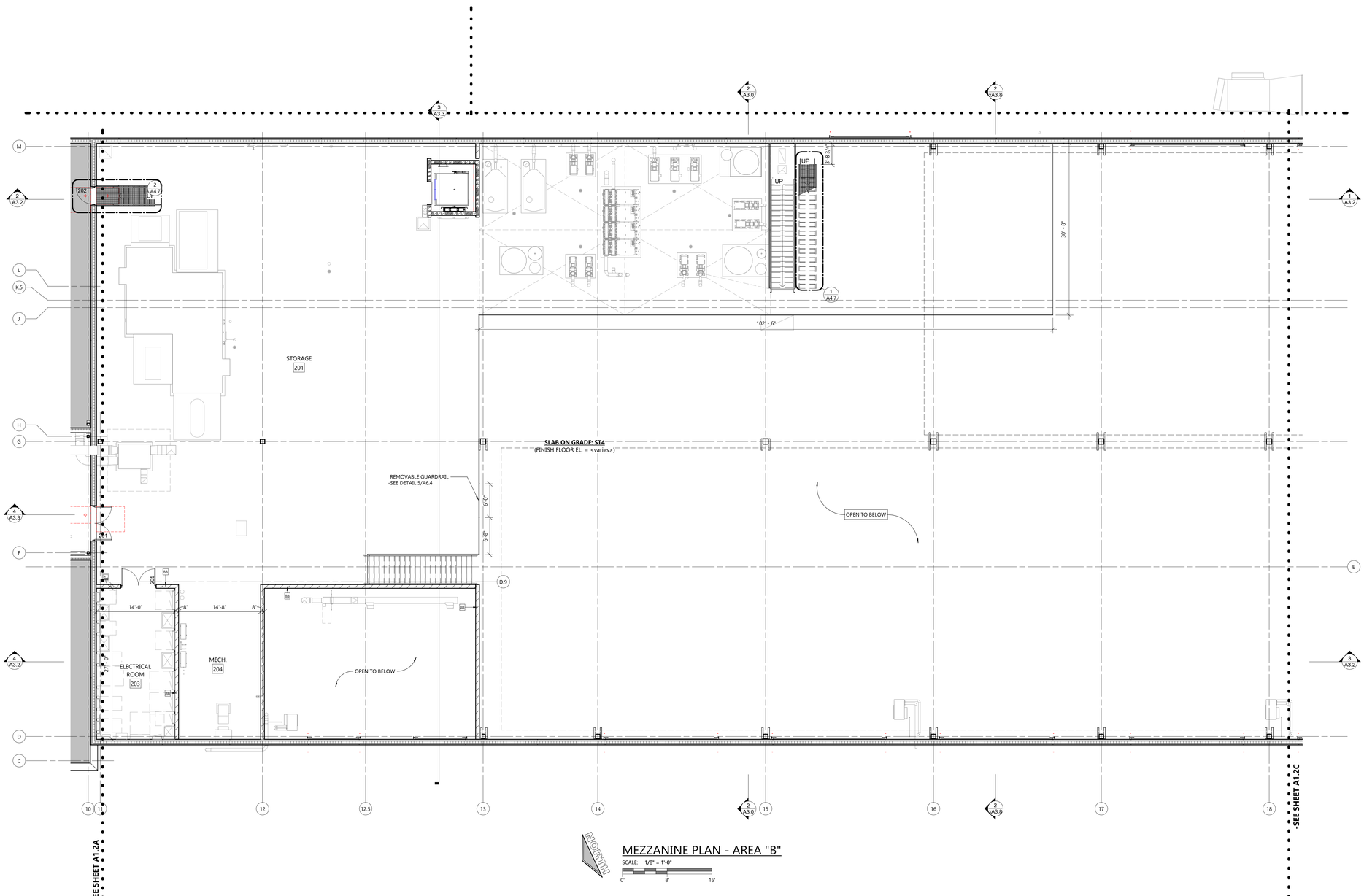

NORTH

MEZZANINE PLAN - AREA "B"

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

0' 8' 16'

SYMBOLS LEGEND

- EM1 — EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 4W22 — INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 3+3+6P — PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 6M22.2 FW — FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- (6B) FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

NEW DOOR

GENERAL NOTES

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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:

MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
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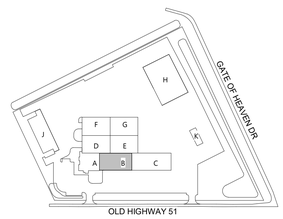
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
A1.2B



KEY PLAN

ARCHITECTURAL MEZZANINE PLAN - AREA 'B' - MAIN BUILDING

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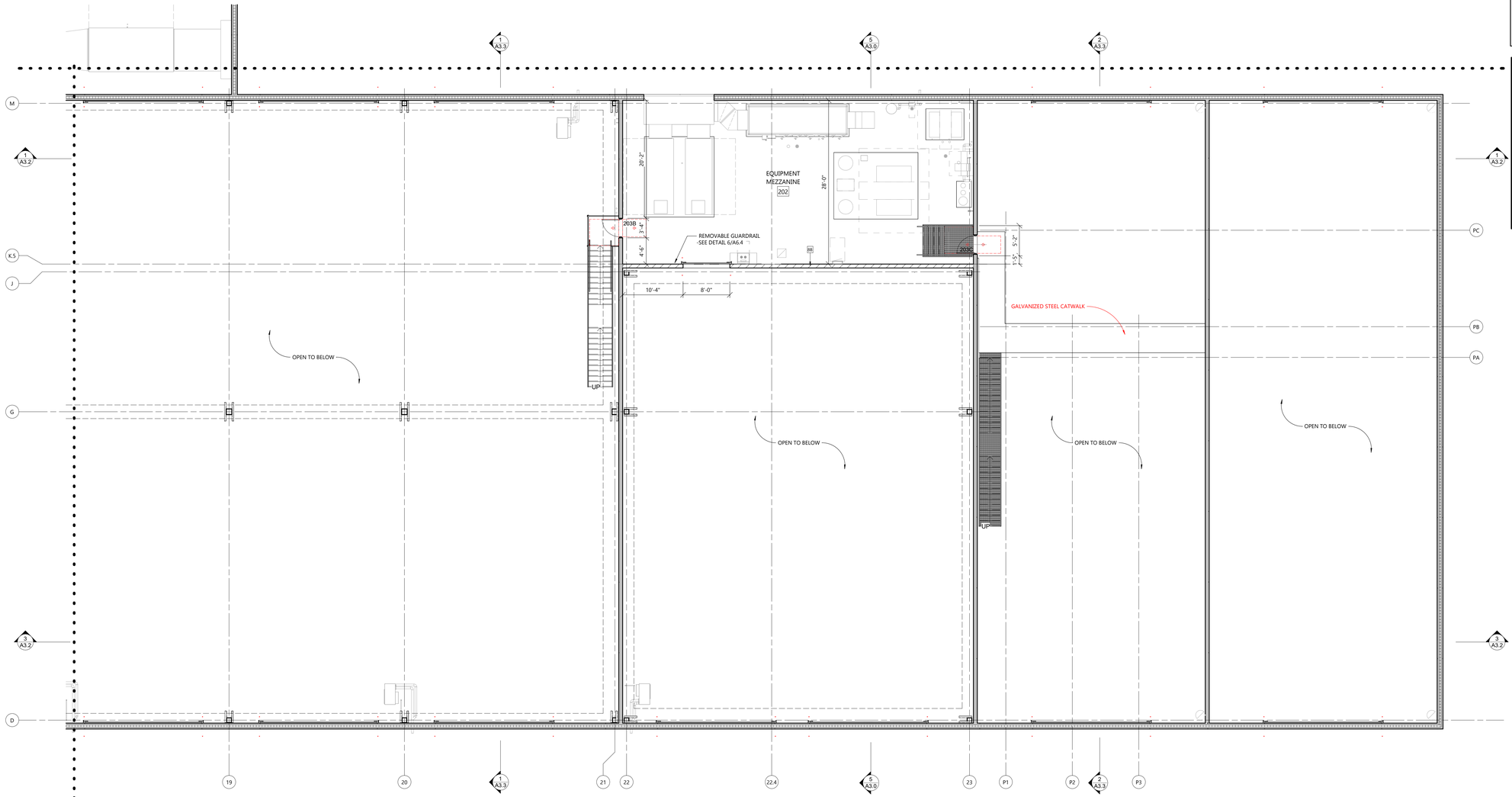
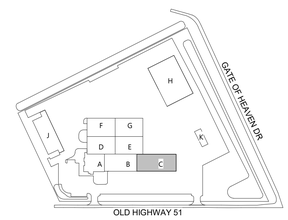


MEZZANINE PLAN - AREA "C"

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

0' 8' 16'



KEY PLAN

ARCHITECTURAL MEZZANINE PLAN - AREA 'C' - MAIN BUILDING

SYMBOLS LEGEND

- EM1 — EXTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 4W22 — INTERIOR WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 3+3+6P — PRECAST WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- 6M32.2 FW — FIRE RATED WALL TYPE • SEE A4 SHEETS FOR WALL TYPES
- EXIT SIGNAGE
- FIRE EXTINGUISHER -SEE A5 SHEETS
- FIRE EXTINGUISHER w/ CABINET -SEE A5 SHEETS
- GP-X — GUARD POST/GOAL POST DESIGNATION -SEE SHEET A6.X FOR DETAILS
- STUD WALL
- MASONRY VENEER
- C.M.U. WALL

SEE PLAN FOR ALL WALL WIDTHS

- NEW DOOR

GENERAL NOTES

- ALL INTERIOR DIMENSIONS ARE FROM FACE-OF-STUD TO FACE-OF-STUD.
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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR: MARATHON COUNTY HIGHWAY COMMISSION

OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES

FEB. 6, 2026
MAR. 2, 2026
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER

250008600

SHEET NUMBER

A1.2C

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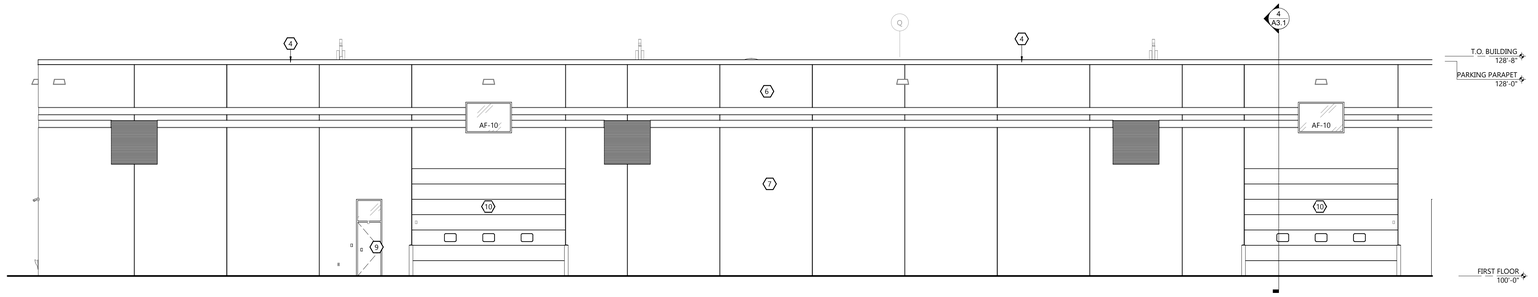
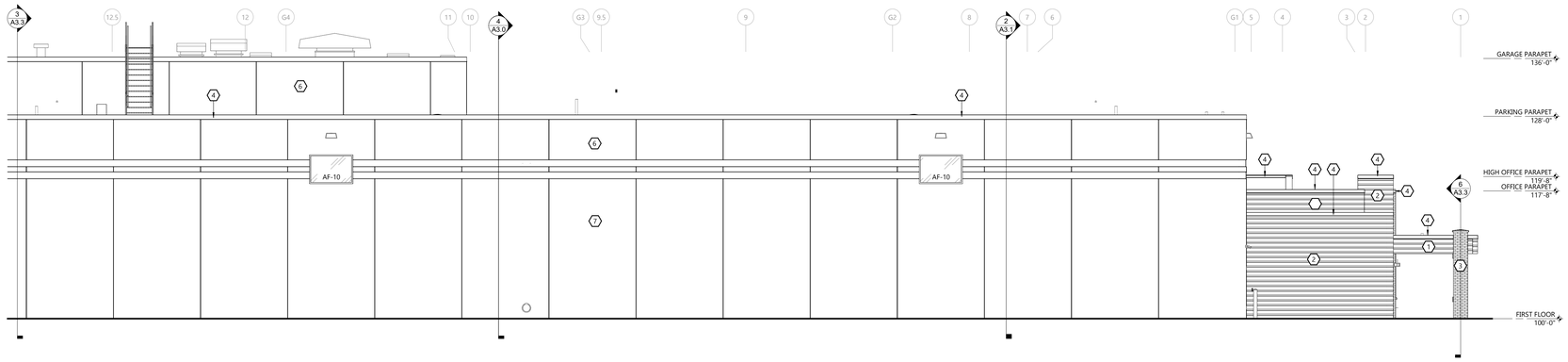


1 A2.0 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



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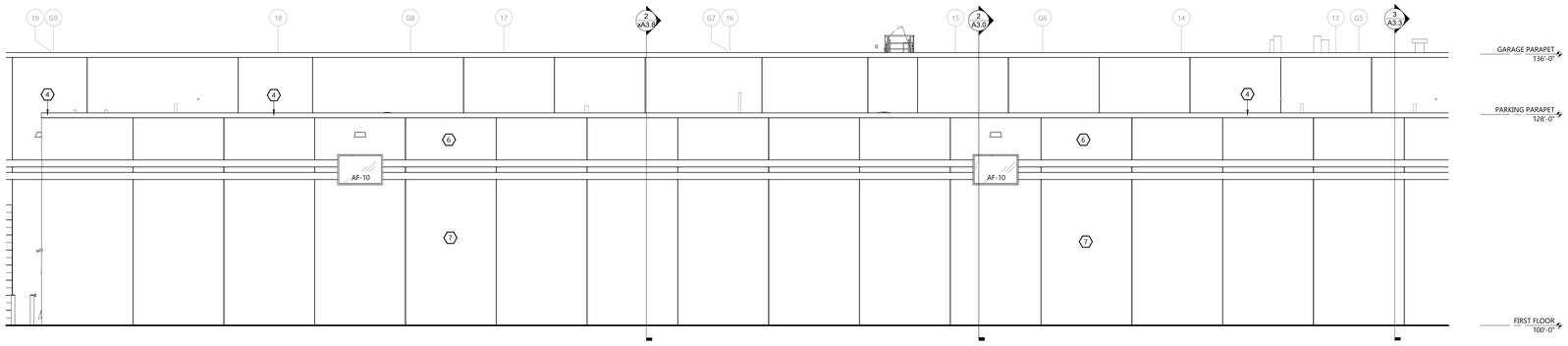

3 A2.0 EAST BUILDING ELEVATION
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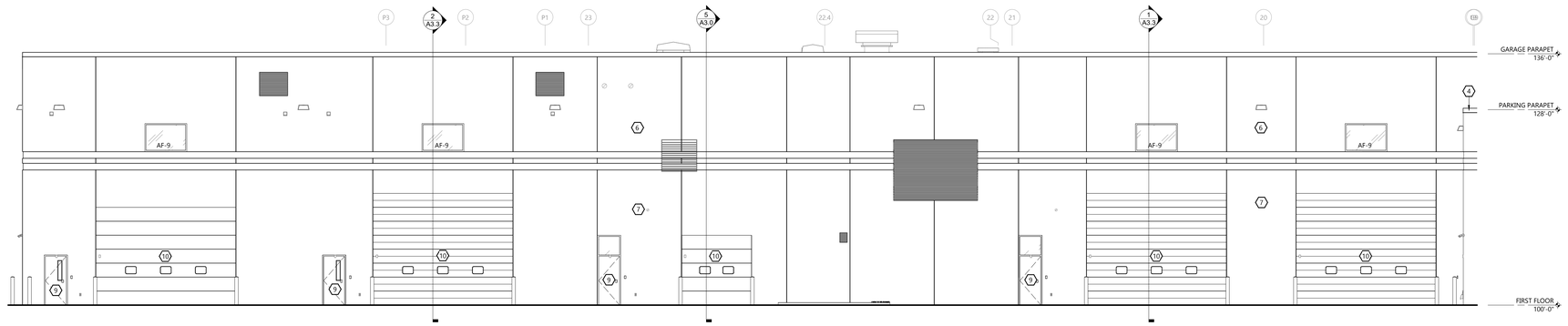

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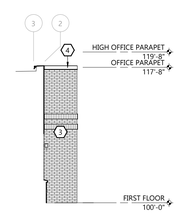

6 A2.0 EAST - HIDDEN
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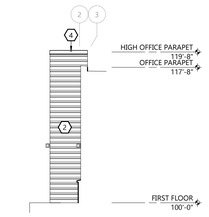

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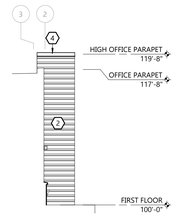

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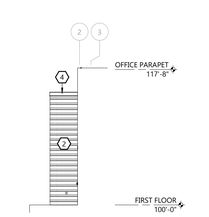

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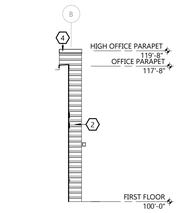

9 A2.0 NORTH - HIDDEN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1281 SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION

- REFERENCE EXTERIOR ELEVATIONS FOR VENEER CONTROL JOINTS. SEE STRUCTURAL PLANS FOR CMU CONTROL JOINT LOCATIONS. VENEER CONTROL JOINTS AND CMU CONTROL JOINTS ARE NOT REQUIRED TO ALIGN.

EXTERIOR MATERIAL KEY

1	**EXTERIOR SIDING** MFR: MUZA PRODUCT: MZ4 COLOR: TBD	MATERIAL: 24 GA. GALVANIZED STEEL
2	**EXTERIOR SIDING** MFR: MUZA PRODUCT: MZ5 COLOR: TBD	MATERIAL: 24 GA. GALVANIZED STEEL
3	**BRICK** MFR: TBD PRODUCT: TBD COLOR: TBD	SIZE: UTILITY MORTAR: NATURAL COLOR
4	**METAL COPING** MFR: PAC-CLAD PROFILE: PAC-TITE COPING - TAPERED COLOR: TO MACH METAL PANEL	
5	**CAST STONE SILL** MFR: COUNTY MATERIALS PROFILE: SEE SECTION DETAILS COLOR: PROVIDE SAMPLES TO MATCH BRICK COLOR	
6	**ACID ETCHED PRECAST** COLOR: TBD CONCRETE COLOR: GRAY TEXTURE: ACID ETCH MEDIUM	
7	**SAND BLASTED PRECAST** COLOR: TBD CONCRETE COLOR: GRAY TEXTURE: SANDBLAST MEDIUM	
8	**ALUMINUM DOOR AND FRAME** ANNODIZED COLOR: TBD	
9	**HOLLOW METAL DOOR AND FRAME** PAINTED COLOR:	
10	**OVERHEAD DOOR** MRF: OVERHEAD DOOR COMPANY COLOR: TBD	

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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

PROFESSIONAL SEAL

PRELIMINARY DATES
FEB. 6, 2026
MAR. 2, 2026
MAR. 27, 2026
APR. 15, 2026
JULY 14, 2026
JULY 23, 2026

NOT FOR CONSTRUCTION

JOB NUMBER
250008600

SHEET NUMBER
A2.0

ARCHITECTURAL EXTERIOR ELEVATIONS - MAIN BUILDING

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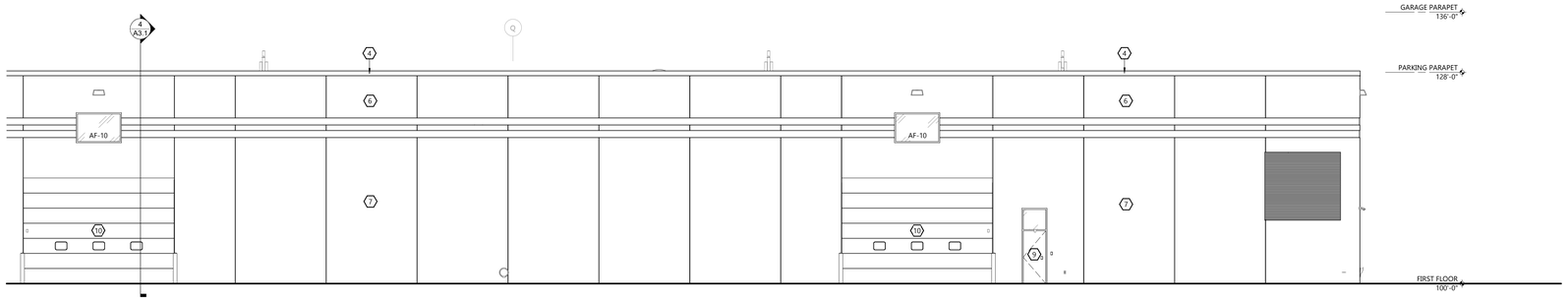
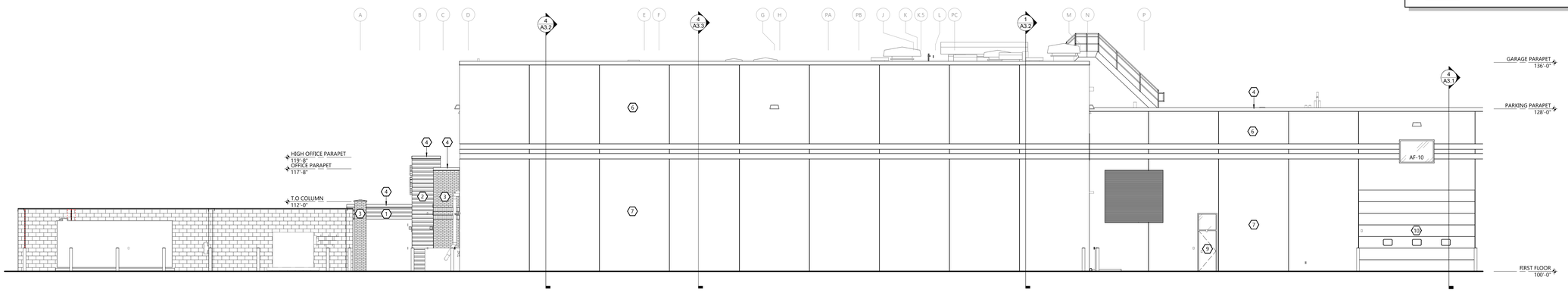


1 A2.1 SOUTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



2 A2.1 SOUTH BUILDING ELEVATION
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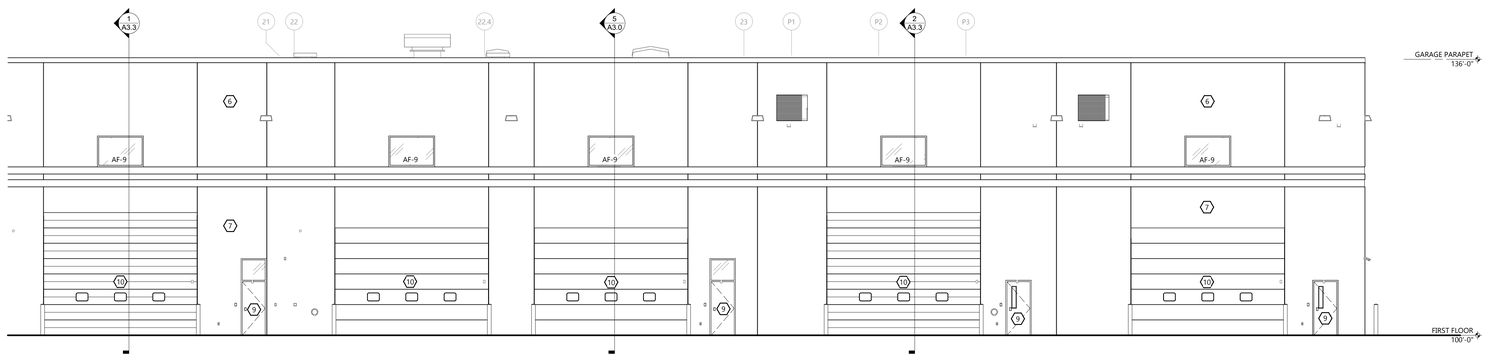

3 A2.1 WEST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1281 SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION

- REFERENCE EXTERIOR ELEVATIONS FOR VENEER CONTROL JOINTS. SEE STRUCTURAL PLANS FOR CMU CONTROL JOINT LOCATIONS. VENEER CONTROL JOINTS AND CMU CONTROL JOINTS ARE NOT REQUIRED TO ALIGN.

EXTERIOR MATERIAL KEY

1	**EXTERIOR SIDING** MFR: MUZA PRODUCT: MZ4 COLOR: TBD	MATERIAL: 24 GA. GALVANIZED STEEL
2	**EXTERIOR SIDING** MFR: MUZA PRODUCT: MZ5 COLOR: TBD	MATERIAL: 24 GA. GALVANIZED STEEL
3	**BRICK** MFR: TBD PRODUCT: TBD COLOR: TBD	SIZE: UTILITY MORTAR: NATURAL COLOR
4	**METAL COPING** MFR: PAC-CLAD PROFILE: PAC-TITE COPING - TAPERED COLOR: TO MACH METAL PANEL	
5	**CAST STONE SILL** MFR: COUNTY MATERIALS PROFILE: SEE SECTION DETAILS COLOR: PROVIDE SAMPLES TO MATCH BRICK COLOR	
6	**ACID ETCHED PRECAST** COLOR: TBD CONCRETE COLOR: GRAY TEXTURE: ACID ETCH MEDIUM	
7	**SAND BLASTED PRECAST** COLOR: TBD CONCRETE COLOR: GRAY TEXTURE: SANDBLAST MEDIUM	
8	**ALUMINUM DOOR AND FRAME** ANNODIZED COLOR: TBD	
9	**HOLLOW METAL DOOR AND FRAME** PAINTED COLOR:	
10	**OVERHEAD DOOR** MFR: OVERHEAD DOOR COMPANY COLOR: TBD	

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ARCHITECTURAL EXTERIOR ELEVATIONS - MAIN BUILDING

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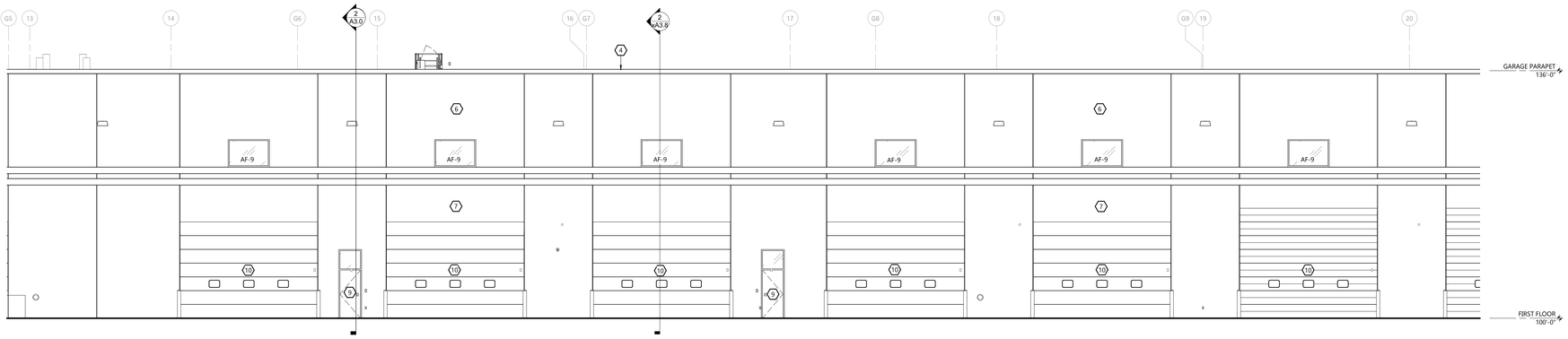
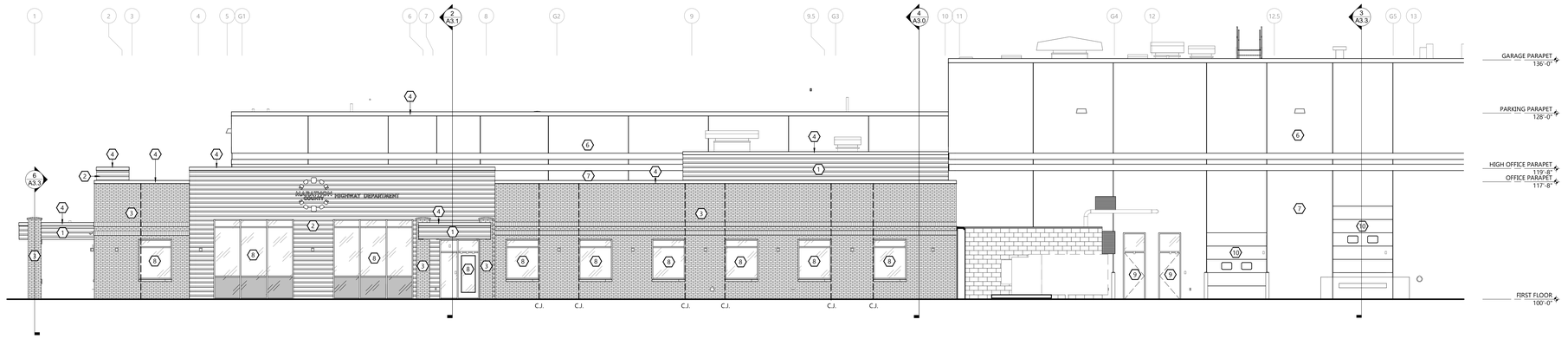


1 A2.2 WEST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



2 A2.2 WEST BUILDING ELEVATION
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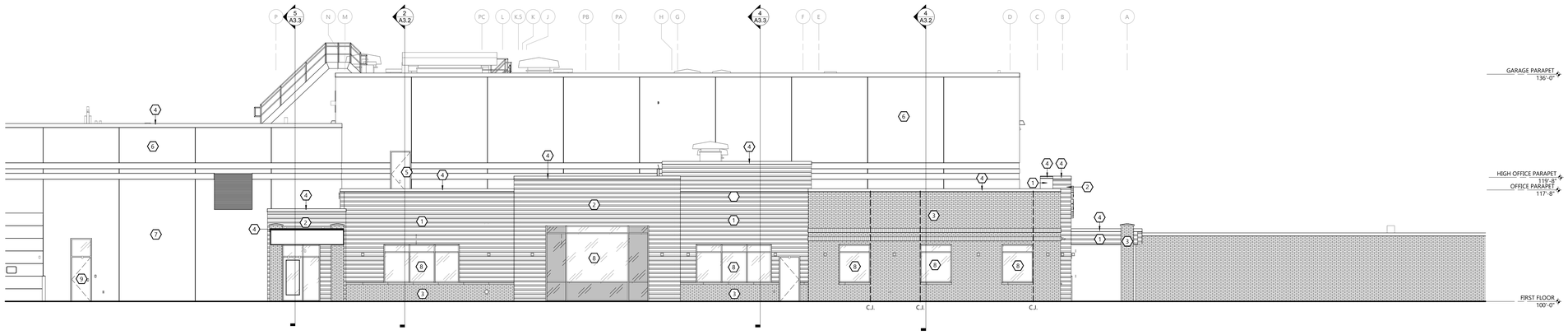

3 A2.2 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1 2 8 1 SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION

- REFERENCE EXTERIOR ELEVATIONS FOR VENEER CONTROL JOINTS. SEE STRUCTURAL PLANS FOR CMU CONTROL JOINT LOCATIONS. VENEER CONTROL JOINTS AND CMU CONTROL JOINTS ARE NOT REQUIRED TO ALIGN.

EXTERIOR MATERIAL KEY

1 **EXTERIOR SIDING**
MFR: MUZA
PRODUCT: MZ4
COLOR: TBD
MATERIAL: 24 GA. GALVANIZED STEEL

2 **EXTERIOR SIDING**
MFR: MUZA
PRODUCT: MZ5
COLOR: TBD
MATERIAL: 24 GA. GALVANIZED STEEL

3 **BRICK**
MFR: TBD
PRODUCT: TBD
COLOR: TBD
SIZE: UTILITY
MORTAR: NATURAL COLOR

4 **METAL COPING**
MFR: PAC-CLAD
PROFILE: PAC-TITE COPING - TAPERED
COLOR: TO MACH METAL PANEL

5 **CAST STONE SILL**
MFR: COUNTY MATERIALS
PROFILE: SEE SECTION DETAILS
COLOR: PROVIDE SAMPLES TO MATCH BRICK COLOR

6 **ACID ETCHED PRECAST**
COLOR: TBD
CONCRETE COLOR: GRAY
TEXTURE: ACID ETCH MEDIUM

7 **SAND BLASTED PRECAST**
COLOR: TBD
CONCRETE COLOR: GRAY
TEXTURE: SANDBLAST MEDIUM

8 **ALUMINUM DOOR AND FRAME**
ANNODIZED COLOR: TBD

9 **HOLLOW METAL DOOR AND FRAME**
PAINTED COLOR:

10 **OVERHEAD DOOR**
MFR: OVERHEAD DOOR COMPANY
COLOR: TBD

NOTE:
- EXTERIOR SIGN IS ILLUMINATED. THE EXTERIOR WALL WHERE THE SIGN IS MOUNTED IS BRICK AND NO VISIBLE WIRES ARE ALLOWED ON THE EXTERIOR. THEREFORE, THE LOW VOLTAGE WIRES FOR THE SIGN MUST BE CONCEALED WITHIN THE EXTERIOR WALL CONSTRUCTION. PRIOR TO THE BRICK BEING INSTALLED, THE SIGN VENDOR MUST LOCATE AND INSTALL ALL LOW VOLTAGE WHIPS TO A JUNCTION BOX CONNECTED TO VIEW FROM PARKING LOT AND RETURN LATER TO TERMINATE AFTER BRICK HAS BEEN INSTALLED.
- SIGN LETTERS TO BE INSTALLED OVER BRICK WITH 3" STAND OFF FROM WALL FINISH
- OBTAIN SIGN LOGO AND TYPOGRAPHY FROM OWNER
- SIGNAGE BY OWNER

4 A2.2 SIGNAGE
SCALE: 1/4" = 1'-0"

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PROJECT INFORMATION

PROPOSED NEW HIGHWAY GARAGE FOR:
MARATHON COUNTY HIGHWAY COMMISSION
OLD HIGHWAY 51 • KRONENWETTER, WI 54455

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JOB NUMBER
250008600

SHEET NUMBER
A2.2

ARCHITECTURAL EXTERIOR ELEVATIONS - MAIN BUILDING

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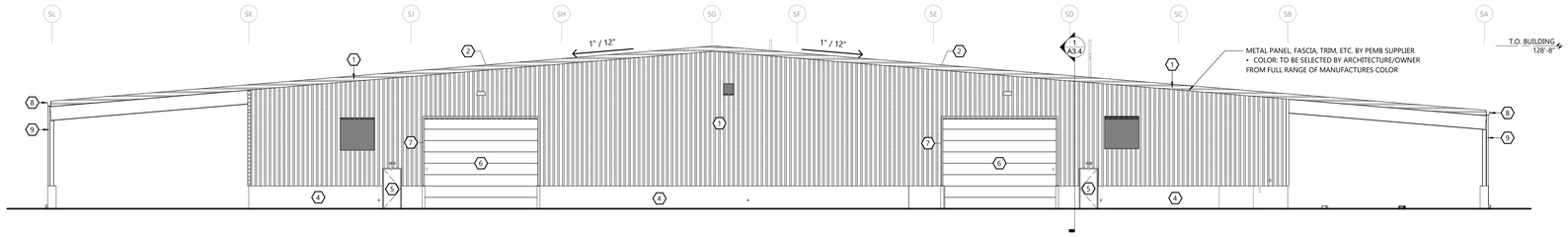
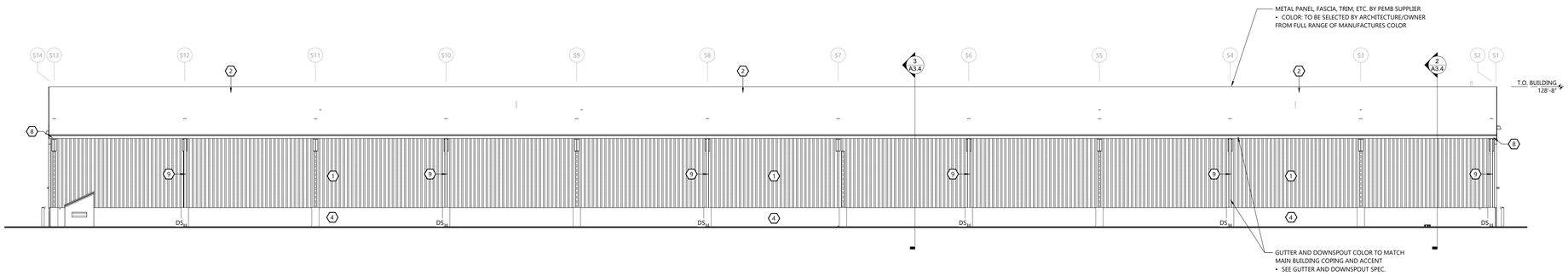


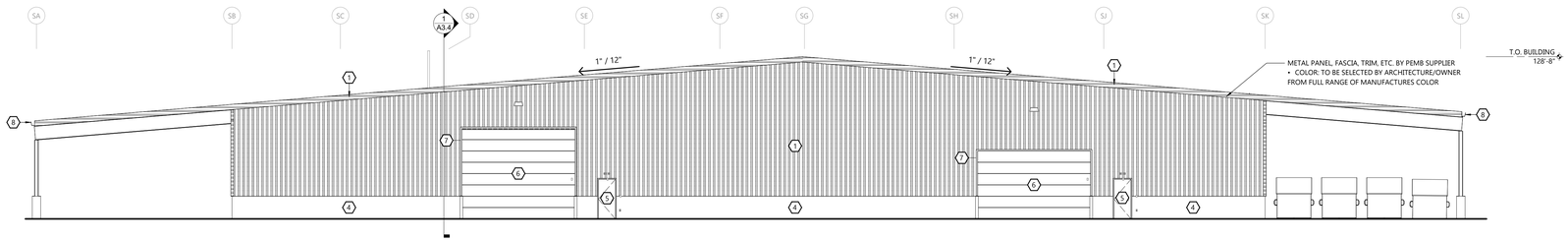
1 A2.3 NORTH TEMPERED STORAGE ELEVATION

SCALE: 3/32" = 1'-0"



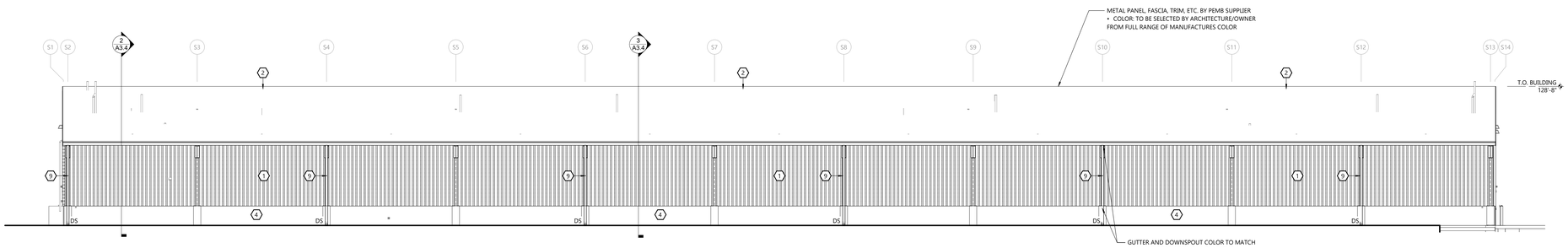
2 A2.3 EAST TEMPERED STORAGE ELEVATION

SCALE: 3/32" = 1'-0"



3 A2.3 SOUTH TEMPERED STORAGE ELEVATION

SCALE: 3/32" = 1'-0"



4 A2.3 WEST TEMPERED STORAGE ELEVATION

SCALE: 3/32" = 1'-0"

EXTERIOR MATERIAL KEY

1 **VERTICAL METAL WALL PANEL**
PRODUCT: SHADOWALL
MATERIAL: 26 GA. MTL PANEL
COLOR: TBD

2 **METAL ROOF PANEL**
PRODUCT: MR-24- STANDING SEAM MTL ROOF
MATERIAL: 24 GA. MTL PANEL
COLOR: TBD

3 **METAL BUILDING TRIM**
PRODUCT: MR-24 - STANDING SEAM MTL ROOF
MATERIAL: 24 GA MTL PANEL
COLOR: TBD

4 **CONCRETE WALL**
COLOR: STANDARD CONCRETE
FINISH: FORM FINISHED

5 **HOLLOW METAL DOOR AND FRAME**
PAINTED COLOR: COLOR

6 **OVERHEAD DOOR**
OVERHEAD DOOR COMPANY
COLOR: WHITE

7 **OVERHEAD DOOR FRAME**
MATERIAL: SUPPLIED BY METAL BUILDING MANUF.
COLOR: MATCH WALL PANEL

8 **GUTTERS**
DIMENSIONS: PROVIDED & SIZED BY PEMB
MATERIAL: PREFINISHED METAL
COLOR: MATCH WALL PANEL

9 **DOWNSPOUTS**
DIMENSIONS: PROVIDED & SIZED BY PEMB
MATERIAL: PREFINISHED METAL
COLOR: MATCH WALL PANEL

10 **METAL SOFFIT PANEL**
PRODUCT: MANUF. STANDARD SOFFIT PANEL
MATERIAL: 24 GA. MTL PANEL
COLOR: COLOR TO MATCH WALL PANEL ADJACENT TO PEMB CANOPY

GENERAL NOTES

12B1 SEE WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION

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JOB NUMBER
250008600

SHEET NUMBER
A2.3

ARCHITECTURAL EXTERIOR ELEVATIONS - TEMPERED STORAGE

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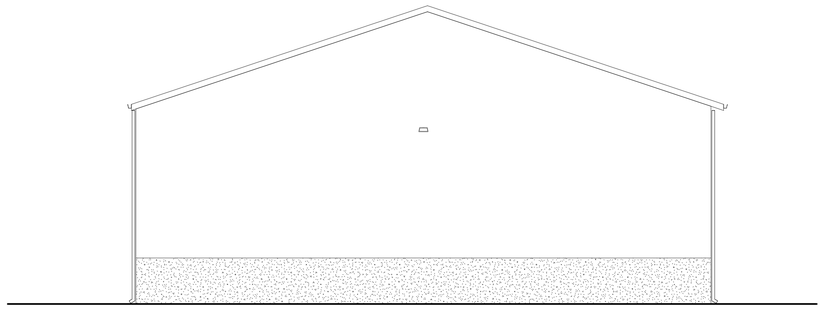
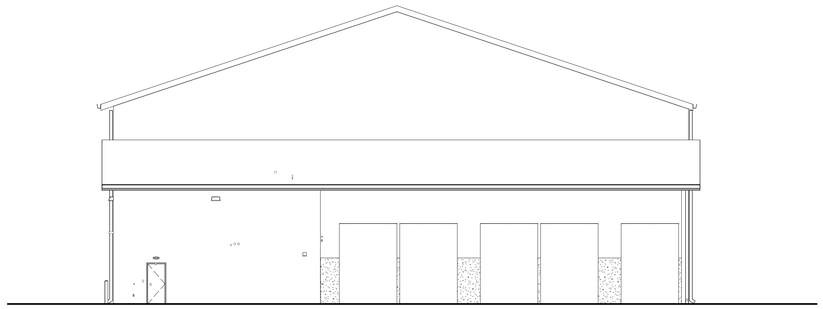
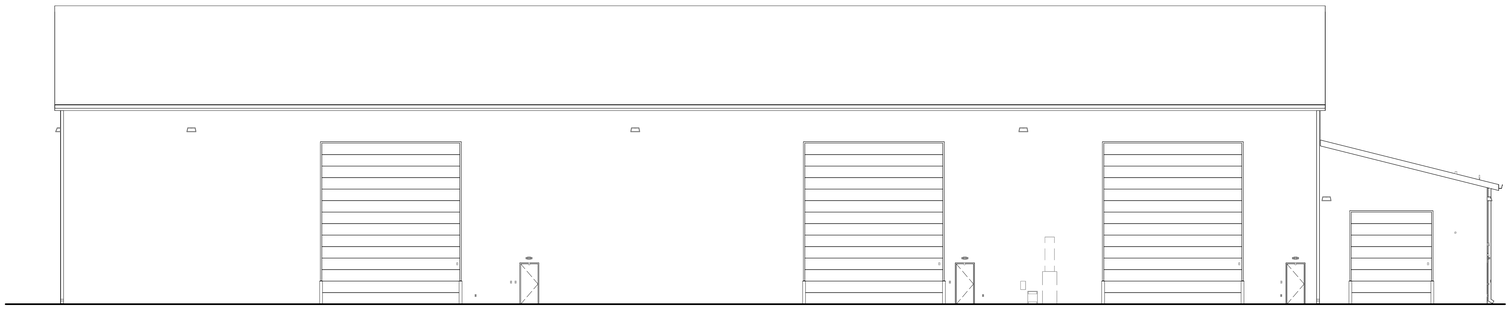


1 A2.4 NORTH SALT SHED ELEVATION
SCALE: 3/32" = 1'-0"



3 A2.4 SOUTH SALT SHED ELEVATION
SCALE: 3/32" = 1'-0"



4 A2.4 WEST SALT SHED ELEVATION
SCALE: 3/32" = 1'-0"

2 A2.4 EAST SALT SHED ELEVATION
SCALE: 3/32" = 1'-0"

EXTERIOR ELEVATIONS - SALT SHED

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