

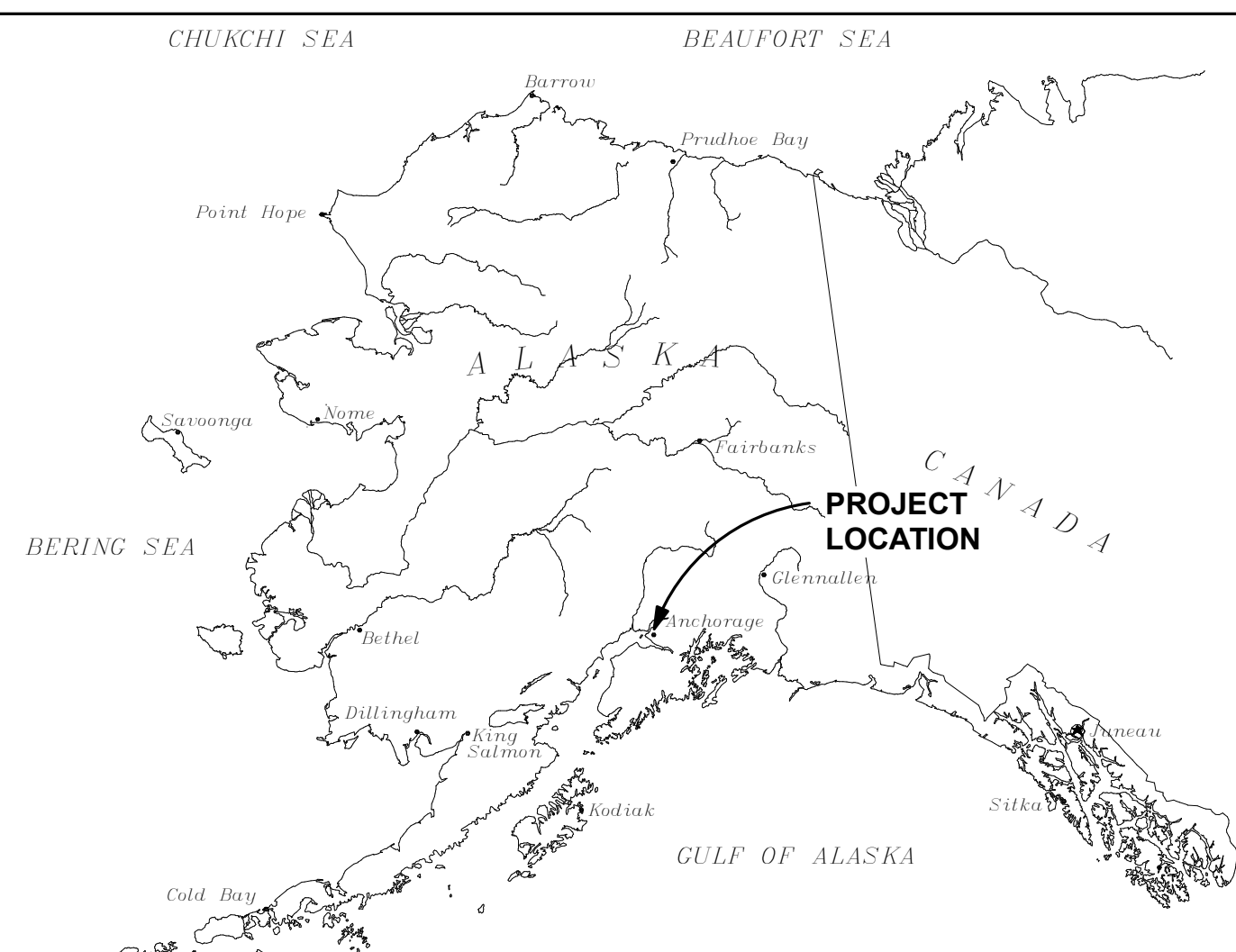
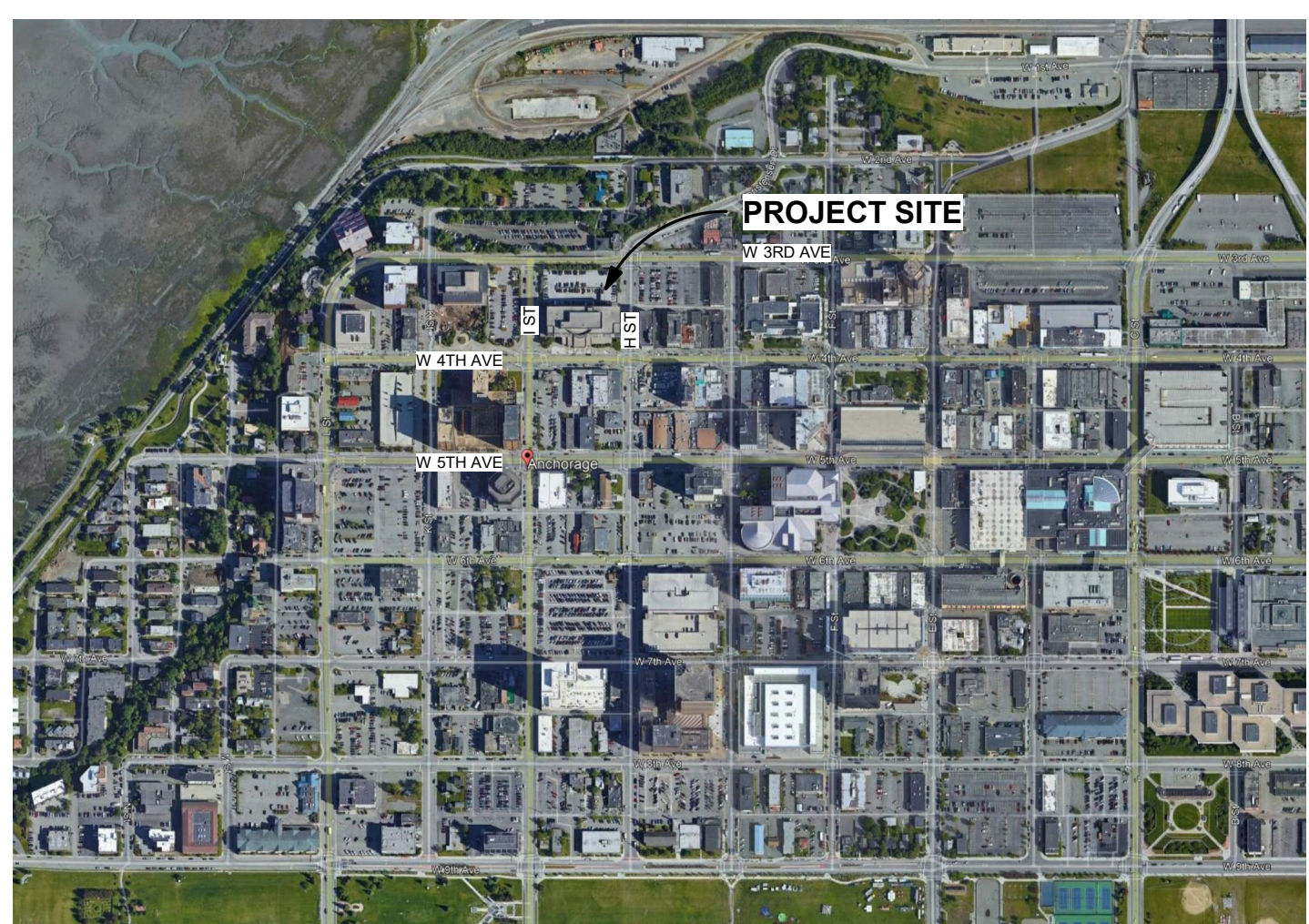
# ALASKA COURT SYSTEM

# BONEY COURTHOUSE PARKING GARAGE REPAIRS

810 WEST 3rd AVENUE ANCHORAGE, AK 99501

## BID DOCUMENTS

05/12/2025

<p><b>VICINICTY MAP</b></p> 	<p><b>LOCATION MAP</b></p> 	<p><b>INDEX OF DRAWINGS</b></p> <p><b>GENERAL</b> G001 COVER SHEET</p> <p><b>STRUCTURAL</b> S001 GENERAL NOTES S101 FLOOR PLAN - LEVEL 1 S102 FLOOR PLAN - LEVEL 2 S501 REPAIR DETAILS</p> <p><b>ARCHITECTURAL</b> A010 SPECIFICATIONS A011 SPECIFICATIONS A101 FLOOR PLAN - LEVEL 1, CODE SUMMARY A102 FLOOR PLAN - LEVEL 2 A103 ROOF PLAN ROOF DETAILS A104 SIGNAGE SCHEDULE</p> <p><b>MECHANICAL</b> M001 MECHANICAL LEGEND, SCHEDULES, AND ABBREVIATIONS, AND SPECIFICATIONS M101 MECHANICAL DEMOLITION PLAN - LOWER LEVEL M102 MECHANICAL DEMOLITION PLAN - UPPER LEVEL M201 MECHANICAL REMODEL PLAN - LOWER LEVEL M202 MECHANICAL REMODEL PLAN - UPPER LEVEL</p> <p><b>ELECTRICAL</b> E001 ELECTRICAL LEGEND, SPECIFICATIONS, AND FIXTURE SCHEDULE E101 ELECTRICAL DEMOLITION PLANS E102 ELECTRICAL DEMOLITION PHOTOS E201 ELECTRICAL REMODEL PLANS</p>
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**GENERAL NOTES**

**CONTRACT DOCUMENTS**

- THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS. IN CASES, IF ANY, WHERE REQUIREMENTS INDICATED ON THE DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY ARCHITECT.


**GENERAL**


- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES, ORDINANCE AND ACCEPTED INDUSTRY STANDARDS; REFER TO CODE STUDY.
- THE CONTRACTOR SHALL ABIDE BY THE INTERNATIONAL BUILDING CODE CHAPTER 33 - SAFEGUARDS DURING CONSTRUCTION.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, NOTIFY ARCHITECT.
- ROOM NET AREA AND PERIMETER LENGTH SHOWN IN SCHEDULE(S) IS FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO VERIFY QUANTITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND DIMENSIONS. IN THE EVENT OF DISCREPENCIES, NOTIFY ARCHITECT.

**FLOOR PLAN**


- ALL DIMENSIONS FOR EXTERIOR WALLS ARE TO EDGE OF SLAB AND/OR EXTERIOR FACE OF STUD.

**PROJECT TEAM**





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FOR:

- SUBMITTAL
- PRICING

**COVER SHEET**

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**SHEET NO.**  
**G001**

**STRUCTURAL GENERAL NOTES**

**GENERAL**

THE CONTRACTOR MUST VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, SITE CONDITIONS OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS MUST GOVERN. CONTRACTOR MUST NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS MUST TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED AS TYP ON THE PLANS BUT MUST APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

ALL CONSTRUCTION MUST COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE MUNICIPALITY OF ANCHORAGE (MOA).

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

**STRUCTURAL DESIGN DATA**

STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2018 IBC AND 2018 IEBC AS AMENDED AND ADOPTED BY THE MUNICIPALITY OF ANCHORAGE. NO WORK WILL INCREASE THE STRESS DUE TO GRAVITY OR LATERAL LOADS TO ANY EXISTING MEMBER BY MORE THAN 10%. THE FLOOR COVERING IS TO BE REPLACED IN KIND, AND THE REMAINDER OF THE WORK IS CONSIDERED A REPAIR PER THE IEBC.

REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, DEPRESSIONS, NON-BEARING WALLS, FIRE-PROOFING, FASCIA, CURBS, DRAINS, RAILINGS, WATERPROOFING, FINISHES, ETC.

THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

LIVE LOADS: OFFICE AREAS = 50 PSF + 15 PSF PARTITION  
1ST FLOOR CORRIDORS & EXITS = 100 PSF  
CORRIDORS ABV 1ST FLOOR = 80 PSF  
MECHANICAL ROOMS = 125 PSF

SNOW LOADS: GROUND SNOW (Pg) = 50 PSF  
Is=1.0, Ct=1.0, Ce=1.0  
ROOF SNOW (P<sub>r</sub>) = 40 PSF FLAT

WIND LOADS: BASIC WIND SPEED (3-SECOND GUST, V<sub>ult</sub>)=130 MPH,  
EXPOSURE B, INTERNAL PRESSURE GC<sub>pi</sub>=±0.55 (PARTIALLY OPEN)

SEISMIC LOADS: SITE CLASS D (DEFAULT), SEISMIC DESIGN CATEGORY D,  
Ss=1.5, S1=0.683, Sds=1.0, Sd1=0.683, Ie=1.0, R=4.0 (INTERMEDIATE PRECAST CONC SHEAR WALL FRAME SYSTEM), Ω<sub>o</sub>=2.5, Cd=4, ρ=1.0, Cs=0.30, BASE SHEAR=1,391 KIPS.

**EXISTING CONDITIONS**

CONTRACTOR MUST VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING WORK. DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON EITHER SITE OBSERVATIONS, ORIGINAL DRAWINGS, OR WERE ASSUMED BASED ON EXPECTED CONDITIONS. IF EXISTING CONDITIONS DO NOT CLOSELY MATCH CONDITIONS SHOWN ON DRAWINGS, OR IF EXISTING MATERIALS ARE OF QUESTIONABLE OR SUBSTANDARD QUALITY, NOTIFY ENGINEER PRIOR TO COMMENCING WORK.

**SPECIAL INSPECTION**

THE OWNER MUST ENGAGE A SPECIAL INSPECTOR PER CHAPTER 17 OF THE IBC. SPECIAL INSPECTION OF THE POST-INSTALLED ANCHORS IS REQUIRED. UPWARDLY INSTALLED ANCHORS REQUIRE CONTINUOUS SPECIAL INSPECTION.

**DEFERRED SUBMITTALS**

THE FOLLOWING ITEMS ARE NOT INCLUDED IN THESE DRAWINGS AND REQUIRE STRUCTURAL DESIGN TO BE FURNISHED BY THE CONTRACTOR:

1. SEISMIC ANCHORAGE OF MECHANICAL & ELECTRICAL EQUIPMENT

DRAWINGS AND CALCULATIONS FOR BUILDER-DESIGNED COMPONENTS, SEALED BY AN ALASKA STATE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN, MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS PRIOR TO SUBMITTING TO BUILDING SAFETY FOR REVIEW. SUBMITTALS OF BUILDER-DESIGNED ITEMS MUST INCLUDE LOCATIONS, MAGNITUDES, AND DIRECTIONS OF ALL FORCES TRANSFERRED TO THE STRUCTURE. DEFERRED SUBMITTALS MUST BE REVIEWED AND APPROVED BY BUILDING SAFETY PRIOR TO INSTALLATION/CONSTRUCTION.

**SUBMITTALS**

THE CONTRACTOR MUST REVIEW, STAMP WITH THEIR APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED BY THE CONTRACT DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR MUST INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DRAWINGS. DIMENSIONS AND QUANTITIES ARE THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE REVIEWED.

**STRUCTURAL CONCRETE**

ALL CONCRETE CONSTRUCTION MUST CONFORM TO ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE, AS MODIFIED BY IBC SECTION 1905 AND LOCAL ADOPTED AMENDMENTS.

**STRUCTURAL CONCRETE**

ALL CONCRETE CONSTRUCTION MUST CONFORM TO ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE, AS MODIFIED BY IBC SECTION 1905 AND LOCAL ADOPTED AMENDMENTS.

ALL CAST-IN-PLACE CONCRETE:

1. EXPOSURE F2, S0, W0, C0 (ACI 318-14, 19.3.1.1)
2. MINIMUM 28-DAY COMPRESSIVE STRENGTH = 4,500 PSI
3. MAXIMUM AGGREGATE SIZE = 3/4"
4. MAXIMUM WATER-CEMENT RATIO = 0.45
5. MAXIMUM CHLORIDE ION CONTENT = 1.00%
6. TARGET AIR CONTENT = 6% (+/-1%), EXCEPT FOR TROWELED INTERIOR SLABS WHICH MUST NOT EXCEED 3% AIR CONTENT.

CONCRETE MUST BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER.

APPLICABLE ASTM STANDARDS:

- PORTLAND CEMENT = ASTM C150
- AGGREGATE = ASTM C33, NORMAL WEIGHT
- WATER = ASTM C1602
- WATER REDUCING ADMIXTURE = ASTM C494, TYPE A

CONCRETE PLACED DURING COLD WEATHER MUST CONFORM TO ACI 306. ALL COLD WEATHER CONCRETE AND CONCRETE EXPOSED TO WEATHER MUST CONTAIN AIR ENTRAINMENT PER ACI 318-14 TABLE 19.3.3.1.

THE FOLLOWING MINIMUM CONCRETE COVER MUST BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE:

- A. CONCRETE CAST AGAINST EARTH 3-INCHES
- B. CONCRETE EXPOSED TO EARTH OR WEATHER  
#6 AND LARGER 2-INCHES  
#5 AND SMALLER 1 1/2-INCHES
- C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER 3/4-INCH

ALL CONCRETE REINFORCING MUST BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315, ACI 318, CRSI MSP-1 AND ACI SP-66. DOWELS MUST MATCH SIZE AND NUMBER OF MAIN REINFORCING.

TYPICAL REINFORCING BARS MUST BE ASTM A615, GRADE 60. LAP SPLICES MUST BE CLASS B LAPS PER ACI (63 X BAR DIAMETER). LAP SPLICES MAY ALSO ACCOMPLISHED USING MECHANICAL DEVICES THAT DEVELOP 125% OF THE STRENGTH OF THE REBAR.

EMBEDDED ITEMS (CONDUIT AND SLEEVES) MUST NOT BE EMBEDDED IN OR PASS THROUGH CONCRETE WITHOUT APPROVAL. ALUMINUM ITEMS MUST NOT BE EMBEDDED IN CONCRETE. SUBMIT CONDUIT LAYOUT AND EMBEDDED ITEM PLANS FOR REVIEW PRIOR TO PLACING CONCRETE.

**POST-INSTALLED ANCHORS**

INSTALLATION MUST CONFORM TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND REQUIREMENTS OF ICC-ES REPORT. ALL POST-INSTALLED ANCHORS MUST HAVE A CURRENT ICC-ES REPORT AND BE AUTHORIZED FOR USE IN SEISMIC DESIGN CATEGORY D. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHORS, UON. PER MOA LOCL AMENDMENT TO THE IBC, ALL ANCHORS USED FOR THE ATTACHMENT OF NONSTRUCTURAL COMPONENTS ARE DESIGNED TO BE LESS THAN 50% STRESSED, THEREFORE NO SPECIAL INSPECTION IS REQUIRED FOR THESE ANCHORS. INSTALLATION OF HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS MUST BE PERFORMED BY ACI/CRSI CERTIFIED PERSONNEL ONLY AND REQUIRES CONTINUOUS SPECIAL INSPECTION.

HOLES MUST BE HAMMER DRILLED. EXISTING BASE MUST BE SCANNED PRIOR TO DRILLING HOLES. EXISTING REBAR LOCATIONS MUST BE MARKED, AND NEW ANCHOR LOCATIONS REVISED TO AVOID EXISTING REINFORCING. NO REINFORCING BARS MUST BE CUT TO INSTALL ANCHORS. ALL DEFECTIVE ANCHOR HOLES MUST BE GROUTED AND A NEW HOLE DRILLED A MINIMUM OF 3 BOLT DIAMETERS AWAY.

SCREW ANCHORS IN CONCRETE MUST BE ONE OF THE FOLLOWING (OR AN APPROVED EQUIVALENT):

- HILTI "KH-EZ" (ESR-3027)
- SIMPSON "TITEN HD" (ESR-2713)
- ITW "TAPCON+" (ESR-3699)
- DEWALT "SCREW-BOLT+" (ESR-3889)

**CRACK & SPALL REPAIR**

ALL CONCRETE CRACK AND SPALL REPAIRS WILL COMPLY WITH ACI 548.12.

MINOR CRACKS IN CONCRETE THAT ARE LESS THAN 0.060" (1/16") WIDE WILL NOT BE REPAIRED.

CHECK FOR VOIDS UNDER SLAB WITH A SOUNDING HAMMER. FILL ALL VOIDS WITH 90 PSI POLYURETHANE FOAM. DRILL HOLE IF REQUIRED TO ASSIST PLACEMENT OF FOAM.

CONCRETE FLOOR AND WALL CRACKS THAT ARE LARGER THAN 0.060", BUT LESS THAN 0.25" WILL BE REPAIRED WITH PRESSURE INJECTED 'KEMKO 038' TWO-COMPONENT EPOXY RESIN OR EQUAL. CRACK SURFACE WILL BE SEALED WITH 'KEMCO CCS GROUT/SEAL' TWO-COMPONENT NON-SAG PASTE OR EQUAL PRIOR TO INJECTION. OTHER REPAIRS MAY BE NEEDED IF WALL IS HOLLOW, CONSULT EOR.

**STRUCTURAL CONCRETE (CONT)**

CONCRETE CRACKS LARGER THAN 0.25", BUT LESS THAN 2" WILL BE SEALED WITH 'FLEXCRETE 102' OR KEMKO 077 IR" LARGE VOID FILLER.

CONCRETE FLOOR CRACKS GREATER THAN 1/4" WILL BE REPAIRED WITH CARBON FIBER STAPLES, 'FORTRESS POWER GRID STITCH' OR EQUAL. CUT 1/8" WIDE X 5/8" DEEP SLOTS PERPENDICULAR TO CRACK. SPACING TO BE DETERMINED IN THE FIELD TO PERMANENTLY REPAIR CRACK; SPACING MUST NOT EXCEED 24" OC FOR CRACKS BETWEEN 3/16" AND 1/2" WIDE, SPACING MUST NOT EXCEED 12" OC FOR CRACKS BETWEEN 1/2" AND 2". PROVIDE (2) STAPLES AT 30" ORIENTATION OF CRACK IN "X" ORIENTATION, AT 4' OC MAX SPACING. PLACE CARBON FIBER STAPLES WITH 'FORTRESS 4000' EPOXY RESIN OR EQUAL.

**FLOOR COVERING**

FOLLOW ALL WRITTEN MANUFACTURERS INSTRUCTIONS. GUIDELINES FOR FLOOR COVERING PRODUCTS ARE AS FOLLOWS. IF A DISCREPANCY BETWEEN THE MANUFACTURERS INSTRUCTIONS AND GUIDELINES IS NOTED, CONTACT THE EOR.

REMOVE EXISTING DAMAGED FLOOR COVERING BY SHOTBLASTING OR GRINDING. REMOVE ALL DUST & LOOSE MATERIAL. APPLY 2 COATS OF SIKAFLOOR-10 OR SIKAFLOOR 11 PRIMER AND ENSURE THE PRIMER IS FULLY CURED. APPLY SIKAFLOOR RB-25 PRONTO COVERING AND ALLOW THE COVERING TO CURE. REMOVE EXCESS AGGREGATE AND INSTALL TOP COAT OF SIKAFLOOR-18 PRONTO.

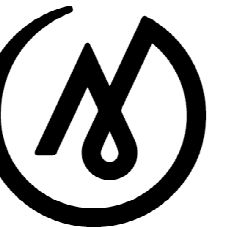
AT TERMINATION OF FLOOR COVERING AT VERTICAL WALLS, COVE BASE OF WALL AND APPLY SIKAFLOOR PRONTO DETAILING RESIN. PRIME WALL PRIOR TO RESIN INSTALLATION. FILL COVE WITH SIKADUR EPOXY MORTAR OR SIMILAR. PROVIDE A TERMINATION BEAD OF SEALANT.

ENSURE ALL PENETRATIONS IN DECK ARE SEALED USING SIKAFLEX OR SIKADUR JOINT SYSTEMS.

**STRUCTURAL STEEL**

MATERIALS:  
ALL SHAPES & PLATE: ASTM A36

ALL STRUCTURAL STEEL MUST BE HOT-DIP GALVANIZED



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5/12/2025

**ANCHORAGE COURT SYSTEM**

**BONEY COURTHOUSE PARKING GARAGE REPAIRS**

825 W. 4TH AVE.  
ANCHORAGE AK, 99501

**BID DOCUMENTS**

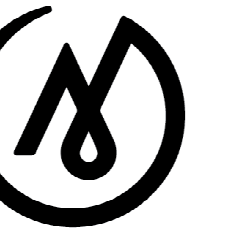
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DATE:	<b>05/12/2025</b>
PROJ. MGR.:	<b>GB</b>
DRAWN BY:	<b>GC</b>
REVIEWED BY:	<b>GB</b>
REVISIONS:	

**GENERAL NOTES**

@	At	BLKG	Blocking	EA	Each	INT	Interior	OH	Overhead	SIM	Similar	TYP	Typical
AB	Anchor Bolts	BM	Beam	EQ	Equal Earthquake	LAG	Lag Screw	OPNG	Opening	SQ	Square	UON	Unless Otherwise Noted
BLDG	Building	BOT	Bottom	EW	Each Way	LOC	Location	PL	Plate	STL	Steel	VERT	Vertical
ARCH	Architect	BTWN	Between	EXP	Expansion	LONG	Longitudinal	PLS	Places	T&B	Top and Bottom	W/	With
AR	Anchor Rod	CL	Center-Line	FDN	Foundation	MAX	Maximum	PSF	Pounds-per-square-foot	T&G	Tongue and Groove	W/O	Without
ALT	Alternate	CLR	Clear	FF	Finished Floor	MEZZ	Mezzanine	PSI	Pounds-per-square-inch	T.O.	Top of	W	Wide-Flange, Wide
AHJ	Authority Having Jurisdiction	COL	Column	GALV	Galvanized	MIN	Minimum	REQ'D	Required	T.O.B.	Top of Beam	W/C	Water / Cement Ratio
AFF	Above Finish Floor	CONC	Concrete	GLB	Glue-Laminated Beam	MFR	Manufacturer	ROQ	Rough Opening	T.O.S.	Top of Steel	W.P.	Work Point
ADH	Adhesive	CONT	Continuous, Continue	HORZ	Horizontal	(N)	New	SBN	Shearwall Boundary Nailing	T.O.W.	Top of Wall	WWR	Welded Wire Reinforcement
ADD'L	Additional	DBN	Diaphragm Boundary Nailing	HSS	Hollow Structural Steel	OC	On-Center	SCH	Schedule	TRANS	Transverse		
		(E)	Existing	IBC	International Building Code								

SHEET NO.

**S001**



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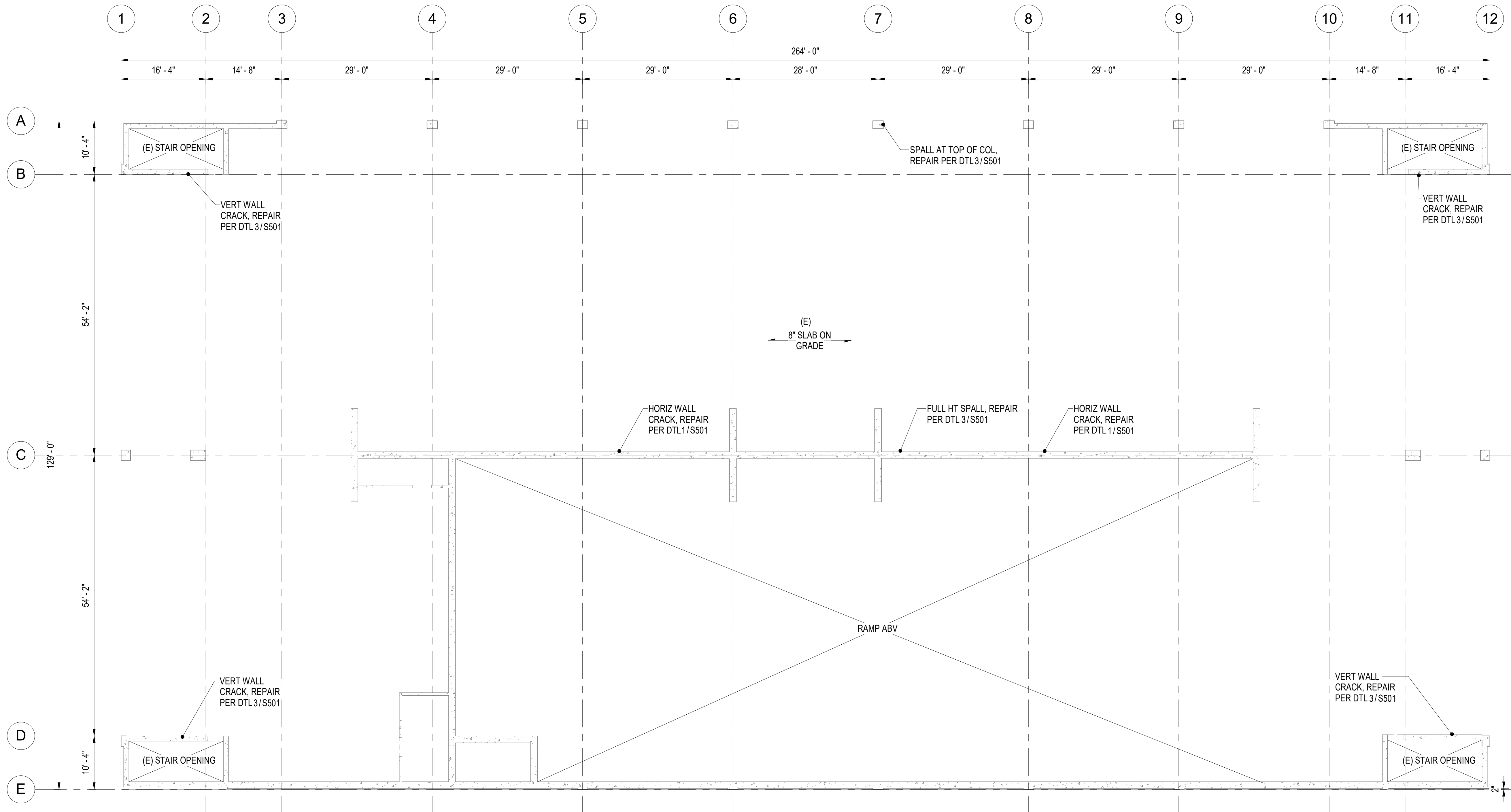
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REVIEWED BY: GB  
REVISIONS:

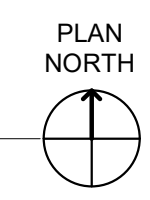
**FLOOR PLAN -  
LEVEL 01**

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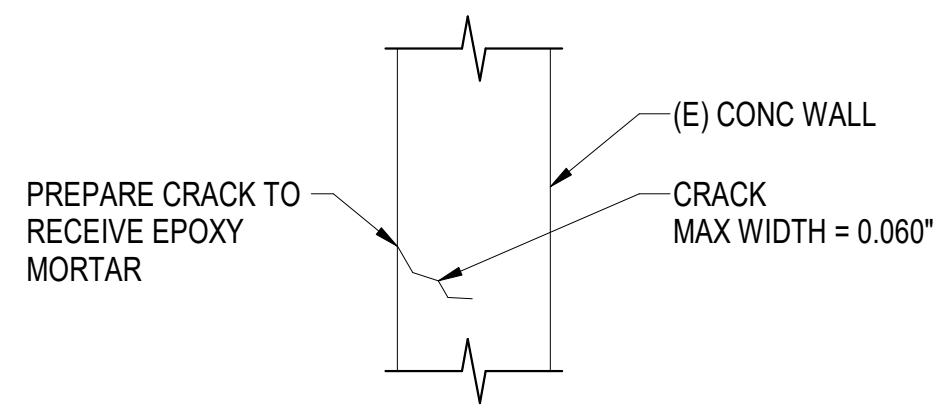
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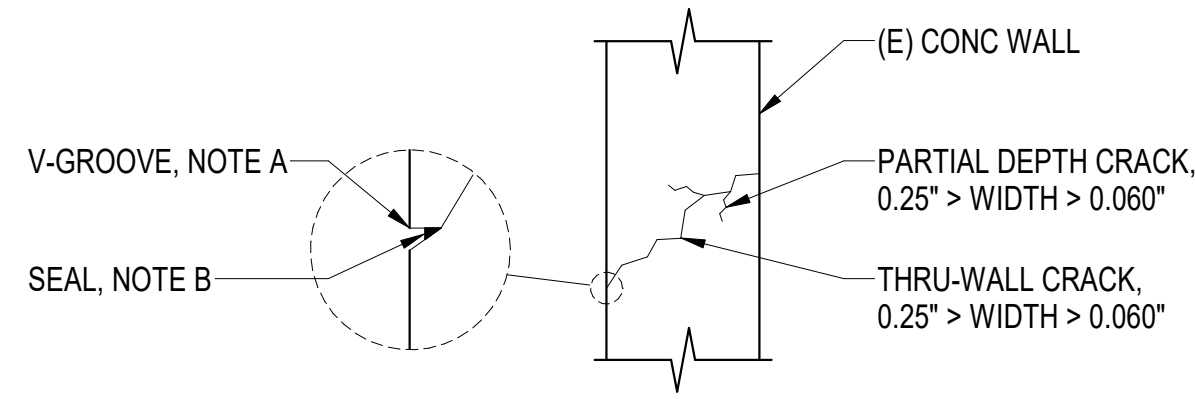
**1** FLOOR PLAN - LEVEL 01  
3/32" = 1'-0"



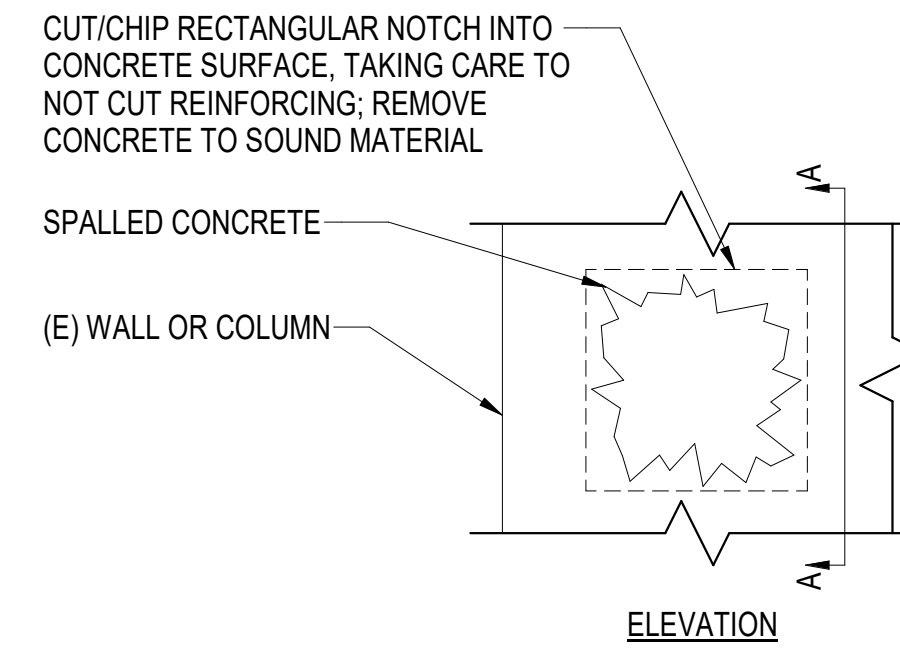




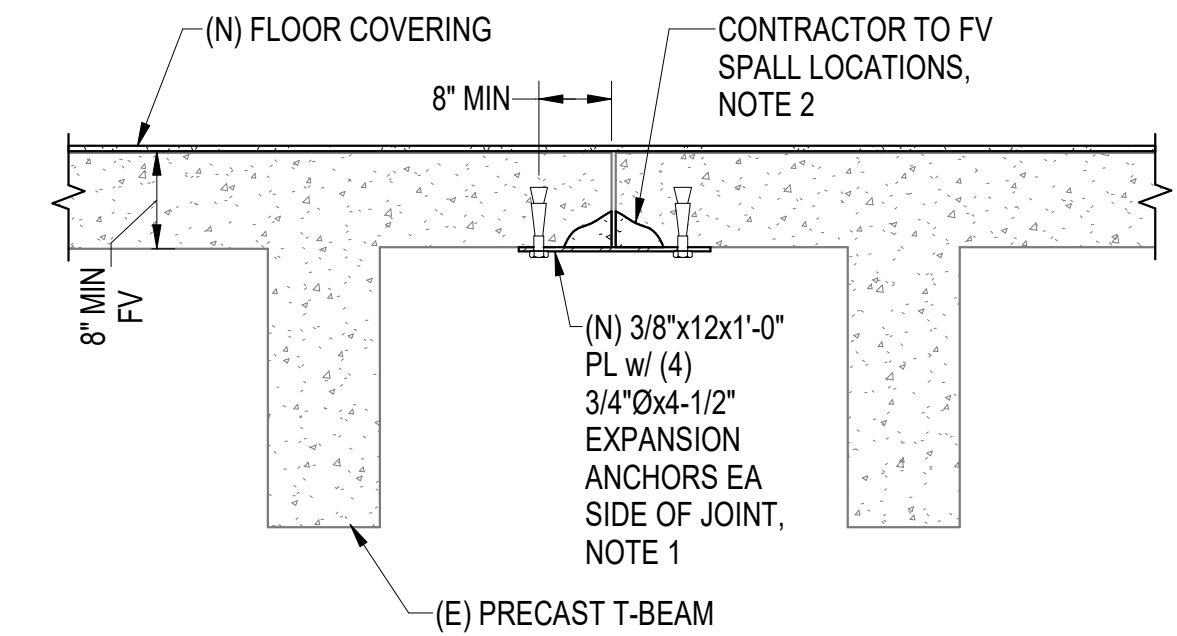
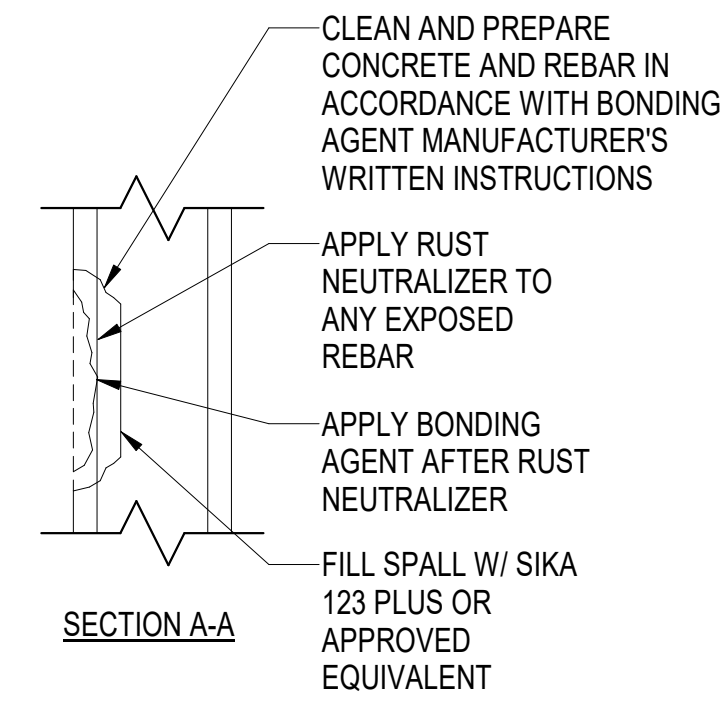
- NOTES:
- CLEAN CRACK WITH STIFF WIRE BRUSH PRIOR TO EPOXY FILL. IF SURFACE IS DETERIORATED, ROUTE A V-GROOVE UNTIL SOUND MATERIAL IS REACHED.
  - PRESSURE INJECT EPOXY xxx. COMPLY WITH ACI 548.12 AND MANUFACTURER'S INSTRUCTIONS.



- NOTES:
- ROUTE A V-GROOVE AT CRACK SURFACE UNTIL SOUND MATERIAL IS REACHED. CLEAN CRACKS.
  - APPLY SURFACE SEAL OVER ALL EXTERIOR FACES OF CRACK. INSTALL INJECTION AND VENTING PORTS PER MANUFACTURER'S INSTRUCTIONS.
  - PRESSURE INJECT EPOXY xxx. COMPLY WITH ACI 548.12 AND MANUFACTURER'S INSTRUCTIONS.
  - DO NOT USE EPOXY INJECTION TO REPAIR EXTERIOR WALLS WITH CRACKS LARGER THAN 1/4" (PRIOR TO GROOVING).



**3** TYP SPALLED CONC REPAIR  
S501 1" = 1'-0"

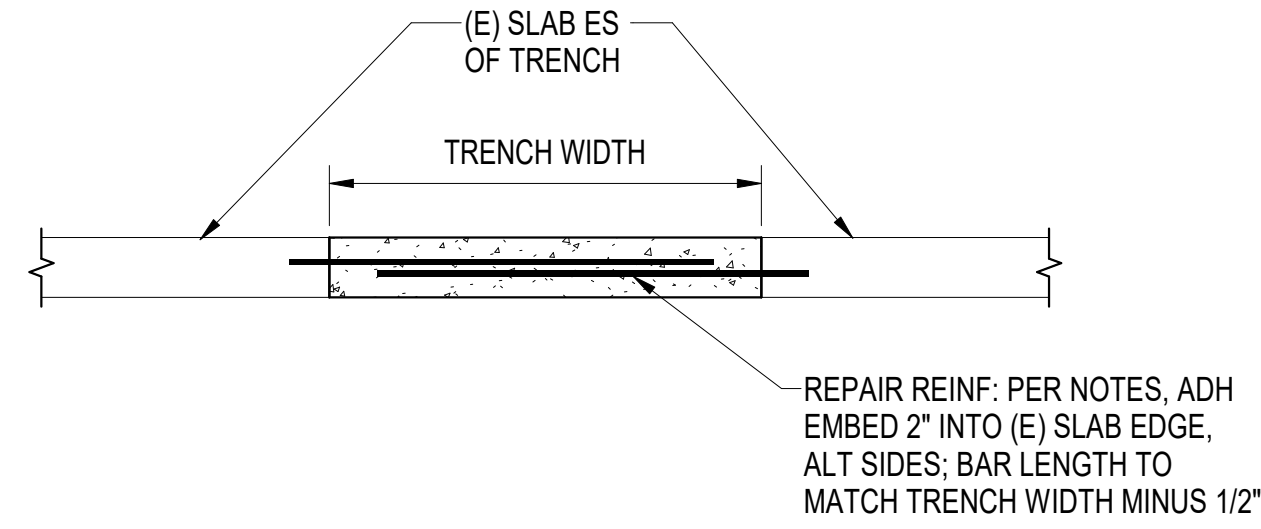


- NOTES:
- INSTALL PLATES AT 2'-0" OC AT DAMAGED T-BM CONNECTIONS
  - REPAIR SPALLS PER DTL3/S501, PRIOR TO PL INSTALL

**4** CONCRETE T-BEAM REPAIR, TYP  
S501 1" = 1'-0"

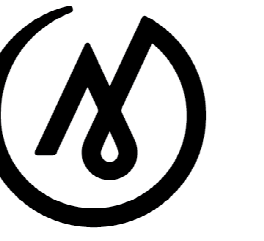
**1** TYP CONC REPAIR - MINOR CRACKS  
S501 1" = 1'-0"

**2** TYP CONC REPAIR - SEVERE CRACKS  
S501 1" = 1'-0"



- NOTES:
- DO NOT OVERCUT CORNERS OF TRENCH. CHIP OUT CORNERS. OVERCUT CORNERS WILL BE RECUT AND REINFORCED SIMILAR TO TRENCH AT CONTRACTORS EXPENSE.
  - WHERE TRENCHES GO THROUGH 4" SLAB, SUPPORTED ENTIRELY ON SOIL, DOWELS SHALL BE: #3 BARS @ 12" ON-CENTER ON BOTH SIDES, LENGTH EQUAL TO THE WIDTH OF THE TRENCH, EPOXY EMBEDDED 2" INTO ORIGINAL SLAB, OVERLAP SHALL BE 4" LESS THAN THE TRENCH WIDTH.
  - WHERE TRENCHES GO THROUGH 6" SLAB OVER MECHANICAL VAULT OR UTILIDOR, DOWELS SHALL BE: #4 BARS @ 12" ON-CENTER ON BOTH SIDES, LENGTH EQUAL TO THE WIDTH OF THE TRENCH, EPOXY EMBEDDED 2" INTO ORIGINAL SLAB, OVERLAP SHALL BE 4" LESS THAN THE TRENCH WIDTH.
  - IF PIPE TRENCH EXTENDS THROUGH EXISTING FOOTING OR FOUNDATION WALL, CONTACT ENGINEER FOR ADDITIONAL CORING AND REPAIR DETAILS PRIOR TO DEMOLITION.
  - REF MECHANICAL DRAWINGS FOR SLAB CUT EXTENTS

**5** TYP CONC SLAB REPAIR  
S501 3/4" = 1'-0"



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ANCHORAGE AK, 99501

**BID DOCUMENTS**

JOB NO. **402025.035**  
DATE: **05/12/2025**  
PROJ. MGR.: **GB**  
DRAWN BY: **GB**  
REVIEWED BY: **GB**  
REVISIONS:

**REPAIR  
DETAILS**

SHEET NO.  
**S501**

# SPECIFICATIONS

## DIVISION 07 - THERMAL AND MOISTURE PROTECTION SECTION 07 2100 THERMAL INSULATION

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Board insulation at over roof deck.

#### 1.02 REFERENCE STANDARDS

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2023.
- B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023D.

#### 1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.
- C. Manufacturer's Installation Instructions: Include information on special environmental conditions required for installation and installation techniques.

#### 1.04 FIELD CONDITIONS

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

### PART 2 PRODUCTS

#### 2.01 APPLICATIONS

- A. Insulation over Roof Deck: Extruded polystyrene (XPS) board.

#### 2.02 FOAM BOARD INSULATION MATERIALS

- A. Extruded Polystyrene (XPS) Board Insulation: Comply with ASTM C578 with either natural skin or cut cell surfaces.
  1. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
  2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
  3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
  4. Type and Thermal Resistance, R-value (RSI-value): Type IV, 5.0 (0.88), minimum, per 1 inch (25.4 mm) thickness at 75 degrees F (24 degrees C) mean temperature.
  5. Board Edges: Square.
  6. Type and Water Absorption: Type IV, 0.3 percent by volume, maximum, by total immersion.
  7. Products:
    - a. Kingspan Insulation LLC: www.kingspan.com/#sle.
    - b. Owens Corning Corporation: www.owenscorning.com/en-us/#sle.
    - c. Substitutions: See Section 01 6000 - Product Requirements.

#### 2.03 ACCESSORIES

- A. Adhesive: Type recommended by insulation manufacturer for application.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation and adhesive.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

#### 3.02 BOARD INSTALLATION OVER LOW SLOPE ROOF DECK

- A. Board Installation Over Roof Deck, General:
  1. See applicable roofing specification section for specific board installation requirements.
  2. Adhere insulation to deck in accordance with roofing manufacturer's written instructions.
  3. Do not apply more insulation than can be covered with roofing on the same day.

#### 3.03 PROTECTION

- A. Do not permit installed insulation to be damaged prior to its concealment.

## END OF SECTION SECTION 07 5300 ELASTOMERIC MEMBRANE ROOFING

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Elastomeric roofing membrane application.
- B. Cover boards.
- C. Roofing cant strips.

#### 1.02 REFERENCE STANDARDS

- A. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.
- B. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension; 2016 (Reapproved 2021).
- C. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers; 2000 (Reapproved 2020).
- D. ASTM D746 - Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact; 2020.
- E. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2015, with Editorial Revision (2022).
- F. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.
- G. NRCA (WM) - The NRCA Waterproofing Manual; 2021.

#### 1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
- C. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.
- D. Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

#### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original containers, dry and undamaged, with seals and labels intact.
- B. Store materials in weather protected environment, clear of ground and moisture.
- C. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.

#### 1.05 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F (5 degrees C).
- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- E. Schedule applications so that no partially completed sections of roof are left exposed at end of workday.

#### 1.06 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective work within a two year period after Date of Substantial Completion.
- C. Provide five year manufacturer's material and labor warranty to cover failure to prevent penetration of water.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. EPDM Membrane Materials:
  1. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.
  2. Elevate: www.holcimelevate.com/#sle.
  3. Johns Manville: www.jm.com/#sle.
  4. Substitutions: See Section 01 6000 - Product Requirements.

#### 2.02 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane: Ethylene-propylene-diene-monomer (EPDM); externally reinforced with fabric; complying with minimum properties of ASTM D4637/D4637M.
  1. Thickness: .60 mil, 0.060 inch (1.5 mm), minimum.
  2. Sheet Width: 120 inches (3,048 mm), maximum; factory fabricate into widest possible sheets.
  3. Color: Black.
  4. Tensile Strength: 1305 psi (9 MPa), minimum, measured in accordance with ASTM D412.
  5. Ultimate Elongation: 300 percent, minimum, measured in accordance with ASTM D412.
  6. Tear Strength: 150 lbf per inch (26.3 kN/m), measured in accordance with ASTM D624.
  7. Water Vapor Permeability: 0.10 perm inch (5.72 ng/(Pa s m)), measured in accordance with ASTM E96/E96M.
  8. Brittleness Temperature: -49 degrees F (-45 degrees C), measured in accordance with ASTM D746.
- B. Seaming Materials: As recommended by membrane manufacturer.

- C. Flexible Flashing Material: Same material as membrane.

#### 2.03 COVER BOARDS

- A. Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
  1. Thickness: 1/2 inch (12.7 mm), fire-resistant.
  2. Products:
    - a. Georgia-Pacific: www.densdeck.com/#sle.
    - b. Substitutions: See Section 01 6000 - Product Requirements.

#### 2.04 ACCESSORIES

- A. Cant and Edge Strips: Wood fiberboard, compatible with roofing materials ; cants formed to 45 degree angle.
- B. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches (152 mm) wide; self adhering.
- C. Membrane Adhesive: As recommended by membrane manufacturer.
- D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- E. Surface Primer Over Roof Substrate for Adhesion of Membrane: Low VOC acrylic primer for application over roofing substrates.
  1. Color: White.
  2. Roof Membrane Substrate: Includes galvanized metal, plywood, concrete, aluminum with Kynar finish, EPDM, EIFS, or \_\_\_\_\_ as indicated on drawings.
- F. Thinners and Cleaners: As recommended by adhesive manufacturer, compatible with membrane.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

#### 3.02 INSTALLATION - INSULATION, UNDER MEMBRANE

- A. Cover Boards: Fully adhere cover boards in accordance with roofing manufacturer's instructions.
- B. Lay subsequent layers of insulation with joints staggered minimum 6 inches (152 mm) from joints of preceding layer.
- C. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.
- D. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- E. Tape joints of insulation in accordance with roofing and insulation manufacturers' instructions.
- F. Do not apply more insulation than can be covered with membrane in same day.

#### 3.03 INSTALLATION - MEMBRANE

- A. Install elastomeric membrane roofing system in accordance with manufacturer's recommendations and NRCA (WM) applicable requirements.
- B. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- C. Shingle joints on sloped substrate in direction of drainage.
- D. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches (76 mm). Seal permanently waterproof. Apply uniform bead of sealant to joint edge.
- E. At intersections with vertical surfaces:
  1. Extend membrane over cant strips and up full height of parapet wall and onto horizontal surface of parapet.
- F. Around roof penetrations, seal flanges and flashings with flexible flashing.

#### 3.04 CLEANING

- A. See Section 01 7000 - Execution and Closeout Requirements for additional requirements.
- B. Remove bituminous markings from finished surfaces.
- C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of your surfaces for cleaning advice and comply with their documented instructions.
- D. Repair or replace defaced or damaged finishes caused by work of this section.

#### 3.05 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

## END OF SECTION SECTION 07 6200 SHEET METAL FLASHING AND TRIM

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Fabricated sheet metal items, including flashings and counterflashings.
- B. Sealants for joints within sheet metal fabrications.

#### 1.02 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- B. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- C. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free; 2007 (Reapproved 2018).
- D. CDA A4050 - Copper in Architecture - Handbook; current edition.
- E. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

#### 1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastening methods, flashings, terminations, and installation details.

#### 1.04 QUALITY ASSURANCE

- A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Prevent contact with materials that could cause discoloration or staining.

### PART 2 PRODUCTS

#### 2.01 SHEET MATERIALS

- A. Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24-gauge, 0.0239-inch (0.61 mm) thick base metal.

#### 2.02 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Fabricate cleats of same material as sheet, minimum 2 inches (50.8 mm) wide, interlocking with sheet.
- C. Form pieces in longest possible lengths.
- D. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- E. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- F. Fabricate corners from one piece with minimum 18-inch (450 mm) long legs; seam for rigidity, seal with sealant.
- G. Fabricate vertical faces with bottom edge formed outward 1/2 inch (12 mm) and hemmed to form drip.

#### 2.03 ACCESSORIES

- A. Fasteners: Galvanized steel, with soft neoprene washers.
- B. Primer Type: Zinc chromate.
- C. Protective Backing Paint: Zinc molybdate alkylid.
- D. Concealed Sealants: Non-curing butyl sealant.
- E. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.
- F. Asphalt Roof Cement: ASTM D4586/D4586M, Type I, asbestos-free.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.

- B. Verify roofing termination and base flashings are in place, sealed, and secure.

#### 3.02 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.
- B. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil, 0.015 inch (0.38 mm).

#### 3.03 INSTALLATION

- A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted.
- B. Apply plastic cement compound between metal flashings and felt flashings.
- C. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- D. Seal metal joints watertight.

## END OF SECTION

## SECTION 07 9200

## JOINT SEALANTS

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Nonsag gunnable joint sealants.
- B. Joint backings and accessories.

#### 1.02 REFERENCE STANDARDS

- A. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- B. ASTM C1193 - Standard Guide for Use of Joint Sealants; 2016 (Reapproved 2023).

#### 1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Submit manufacturer's technical datasheets for each product to be used; include the following:
  1. Physical characteristics, including movement capability, VOC content, hardness, cure time, and color availability.
  2. List of backing materials approved for use with the specific product.
  3. Backing material recommended by sealant manufacturer.
  4. Substrates that product is known to satisfactorily adhere to and with which it is compatible.
  5. Substrates the product should not be used on.
  6. Substrates for which use of primer is required.
  7. Installation instructions, including precautions, limitations, and recommended backing materials and tools.
  8. Sample product warranty.
- C. Product Data for Accessory Products: Submit manufacturer's technical data sheet for each product to be used, including physical characteristics, installation instructions, and recommended tools.
- D. Executed warranty.

#### 1.04 WARRANTY

- A. See Section 01 7800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 2-year manufacturer warranty for installed sealants and accessories that fail to achieve a watertight seal, exhibit loss of adhesion or cohesion, or do not cure. Complete forms in Owner's name and register with manufacturer.
- C. Extended Correction Period: Correct defective work within 2-year period commencing on Date of Substantial Completion.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Nonsag Sealants:
  1. Bostik Inc: www.bostik-us.com/#sle.
  2. Dow: www.dow.com/#sle.
  3. Hilli, Inc: www.hilli.com/#sle.
  4. Pecora Corporation: www.pecora.com/#sle.
  5. Sika Corporation: usa.sika.com/#sle.
  6. Substitutions: See Section 01 6000 - Product Requirements.

#### 2.02 JOINT SEALANTS - GENERAL

#### 2.03 NONSAG JOINT SEALANTS

- A. Silicone Sealant: ASTM C920, Grade NS, Use T; single component, explicitly approved by manufacturer for traffic exposure when recessed below traffic surface; not expected to withstand continuous water immersion.
  1. Movement Capability: Plus 100 percent and minus 50 percent, minimum.
  2. Color: Dark Gray.
- B. Noncuring Butyl Sealant: Solvent-based, single component, nonsag, nonskinning, nonhardening, nonbleeding, nonvapor permeable; intended for fully concealed applications.

#### 2.04 ACCESSORIES

- A. Joint Cleaner: Noncorrosive and nonstaining type, type recommended by sealant manufacturer; compatible with joint forming materials.
- B. Primers: Type recommended by sealant manufacturer to suit application; nonstaining.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that joints are ready to receive work.
- B. Verify that backing materials are compatible with sealants.

#### 3.02 PREPARATION

- A. Remove loose materials and foreign matter that could impair adhesion of sealant.
- B. Clean joints, and prime as necessary, in accordance with manufacturer's instructions.
- C. Perform preparation in accordance with manufacturer's instructions and ASTM C1193.
- D. Mask elements and surfaces adjacent to joints from damage and disfigurement due to sealant work; be aware that sealant drips and smears may not be completely removable.

#### 3.03 INSTALLATION

- A. Install this work in accordance with sealant manufacturer's requirements for preparation of surfaces and material installation instructions.
- B. Provide joint sealant installations complying with ASTM C1193.
- C. Install bond breaker backing tape where backer rod cannot be used.
- D. Install sealant free of air pockets, foreign embedded matter, ridges, and sags, and without getting sealant on adjacent surfaces.
- E. Do not install sealant when ambient temperature is outside manufacturer's recommended temperature range, or will be outside that range during the entire curing period, unless manufacturer's approval is obtained and instructions are followed.
- F. Nonsag Sealants: Tool surface concave, unless otherwise indicated; remove masking tape immediately after tooling sealant surface.

## END OF SECTION SECTION 07 9513 EXPANSION JOINT COVER ASSEMBLIES

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Expansion joint cover assemblies for floor surfaces.

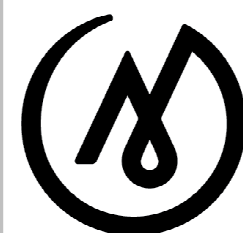
#### 1.02 ADMINISTRATIVE REQUIREMENTS

- A. Installation Templates: For frames and anchors to be embedded in concrete or masonry, furnish templates to relevant installers; include installation instructions and tolerances.

#### 1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
  - B. Product Data: Provide joint assembly profiles, profile dimensions, anchorage devices and available colors and finish.
  - C. Shop Drawings: Indicate joint and splice locations, miters, layout of the work, affected adjacent construction and anchorage locations.
  - D. Manufacturer's Installation Instructions: Indicate rough-in sizes and required tolerances for item placement.
- ### PART 2 PRODUCTS
- #### 2.01 EXPANSION JOINT COVER ASSEMBLY APPLICATIONS
- A. Parking/Traffic Deck Joints Subject to Seismic Movement:
    1. Manufacturers:
      - a. Balco, Inc; CS Parking and Open-Air, Elastomeric Winged Multi-Chamber Floor Seal System: www.balcousa.com/#sle.
      - b. EMSEAL Joint Systems, Ltd; SJS-Seismic Joint System: www.emseal.com/#sle.
      - c. Willseal LLC; Willseal WJS: www.willseal.com/#sle.
      - d. Substitutions: See Section 01 6000 - Product Requirements.

#### 2.02 EXPANSION JOINT COVER ASSEMBLIES



**MCG**  
EXPLORE  
DESIGN

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Anchorage, Alaska 99501  
907.563.8474 | F 907.563.4572  
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ALASKA COURT  
SYSTEM

**BONEY**  
COURTHOUSE  
PARKING  
GARAGE  
REPAIRS

810 WEST 3rd AVENUE  
ANCHORAGE, AK 99501

BID DOCUMENTS

JOB NO.	2021026.08
DATE:	05/12/2025
PROJ. MGR.:	TJC
DRAWN BY:	TJC
REVIEWED BY:	TJC
REVISIONS:	

SPECIFICATIONS

SHEET NO.

**A010**

# SPECIFICATIONS

- A. Expansion Joint Cover Assemblies - General: Factory-fabricated and assembled; designed to completely fill joint openings, sealed to prevent passage of air, dust, water, smoke; suitable for traffic expected.
1. Joint Dimensions and Configurations: As indicated on drawings.
  2. Joint Cover Sizes: Selected to suit joint width and configuration, based on manufacturer's published recommendations and limitations.
  3. Lengths: Provide covers in full lengths required; avoid splicing wherever possible.
  4. Anchors, Fasteners, and Fittings: Provided by cover manufacturer.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that joint preparation and dimensions are acceptable and in accordance with manufacturer's requirements.
- B. Verify that frames and anchors installed by others are in correct locations and suitable for installation of remainder of assembly.

### 3.02 INSTALLATION

- A. Install components and accessories in accordance with manufacturer's instructions.
- B. Align work plumb and level, flush with adjacent surfaces.
- C. Rigidly anchor to substrate to prevent misalignment.

### 3.03 PROTECTION

- A. Do not permit traffic over unprotected floor joint surfaces.

**END OF SECTION**  
**DIVISION 09 - FINISHES**  
**SECTION 09 9113**  
**EXTERIOR PAINTING**

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.
- D. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
  2. Items indicated to receive other finishes.
  3. Items indicated to remain unfinished.
  4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
  5. Floors, unless specifically indicated.
  6. Glass.
  7. Concealed pipes, ducts, and conduits.

### 1.02 DEFINITIONS

- A. Comply with ASTM D16 for interpretation of terms used in this section.

### 1.03 REFERENCE STANDARDS

- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications; 2024.
- B. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual; Current Edition.

### 1.04 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
  2. MPI product number (e.g. MPI #47).
  3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
  4. Manufacturer's installation instructions.
- C. Manufacturer's Instructions: Indicate special surface preparation procedures.
- D. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.

### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F (7 degrees C) and a maximum of 90 degrees F (32 degrees C), in ventilated area, and as required by manufacturer's instructions.

### 1.06 FIELD CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Provide lighting level of 80 ft candles (860 lx) measured mid-height at substrate surface.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Provide paints and finishes used in any individual system from the same manufacturer; no exceptions.
- B. Paints:
1. Pittsburgh Paints: [www.ppgpaints.com/#sle](http://www.ppgpaints.com/#sle).
  2. Rodda Paint Company: [www.roddapaint.com/#sle](http://www.roddapaint.com/#sle).
  3. Sherwin-Williams Company: [www.sherwin-williams.com/#sle](http://www.sherwin-williams.com/#sle).
- C. Primer Sealers: Same manufacturer as top coats.
- D. Substitutions: See Section 01 6000 - Product Requirements.

### 2.02 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
  2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
  3. Supply each paint material in quantity required to complete entire project's work from a single production run.
  4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
- B. Flammability: Comply with applicable code for surface burning characteristics.

### 2.03 PAINT SYSTEMS - EXTERIOR

- A. Paint E-Pav - Pavement Marking Paint:
1. Acrylic alkyd, waterborne enamel.
  2. White: One coat, with reflective particles. At all non-accessible parking stalls and associated striping.
  3. Blue: One coat, with reflective particles. At all accessible parking stalls and associated striping.

### 2.04 ACCESSORY MATERIALS

- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
1. Concrete Floors and Traffic Surfaces: 8 percent.

### 3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.

- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- F. Concrete Floors and Traffic Surfaces: Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.

### 3.03 APPLICATION

- A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- E. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

### 3.04 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

### 3.05 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

**END OF SECTION**  
**DIVISION 10 - SPECIALTIES**  
**SECTION 10 1419**  
**DIMENSIONAL LETTER SIGNAGE**

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

- A. Dimensional letter signage.

### 1.02 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's product literature for each type of dimensional letter sign, indicating style, font, colors, locations, and overall dimensions of each sign.
- C. Shop Drawings:
1. Include dimensions, locations, elevations, materials, text and graphic layout, and attachment details.
- D. Manufacturer's Installation Instructions: Include installation templates and attachment devices.

### 1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Package dimensional letter signs as required to prevent damage before installation.
- B. Store under cover and elevated above grade.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Dimensional Letter Signs:
1. Takeform; Ethos: [www.takeform.net/#sle](http://www.takeform.net/#sle).
  2. Substitutions: See Section 01 6000 - Product Requirements.

### 2.02 DIMENSIONAL LETTERS

- A. Applications: Traffic directions.
1. Use individual metal letters.
  2. Mounting Location: Exterior as indicated on drawings.
- B. Metal Letters:
1. Material: Stainless steel sheet, fabricated reverse channel.
  2. Thickness: Manufacturer's standard for letter size.
  3. Letter Height: As indicated on signage schedule.
  4. Text and Typeface:
    - a. Character Font: Helvetica, Arial, or other sans serif font.
    - b. Character Case: Upper case only.
  5. Finish: As selected by Architect from manufacturer's full range. All alpha numeric characters shall be finished with a reflective finish.
  6. Color: As selected.
  7. Mounting: Concealed or exposed screws.

### 2.03 ACCESSORIES

- A. Concealed Screws: Noncorroding metal; stainless steel, galvanized steel, chrome plated, or other.
- B. Exposed Screws: Stainless steel.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.
- B. Notify Architect if conditions are not suitable for installation of signs; do not proceed until conditions are satisfactory.

### 3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install with horizontal edges level.
- C. Protect from damage until mm-dd-yyyy; repair or replace damaged items.

**END OF SECTION**  
**SECTION 10 1423**  
**PANEL SIGNAGE**

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

- A. Panel signage.

### 1.02 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Product Data: Manufacturer's product literature for each type of panel sign, indicating styles, font, foreground and background colors, locations, and overall dimensions of each sign.
- C. Shop Drawings:
1. Include dimensions, locations, elevations, materials, text and graphic layout, attachment details, and schedules.
  2. Schedule: Provide information sufficient to completely define each panel sign for fabrication, including room number, room name, other text to be applied, sign and letter sizes, fonts, and colors.
    - a. Submit for approval by Owner through Architect prior to fabrication.
- D. Manufacturer's Installation Instructions: Include installation templates and attachment devices.
- E. Manufacturer's qualification statement.

### 1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

### 1.04 DELIVERY, STORAGE, AND HANDLING

- A. Package signs as required to prevent damage before installation.
- B. Store under cover and elevated above grade.
- C. Store adhesive at conditions as required by manufacturer.

### 1.05 FIELD CONDITIONS

- A. Do not install tape adhesive when ambient temperature is lower than recommended by manufacturer.
- B. Maintain minimum ambient temperature during and after installation.

## PART 2 PRODUCTS

## 2.01 MANUFACTURERS

- A. Panel Signage:
1. Takeform: [www.takeform.net/#sle](http://www.takeform.net/#sle).
  2. Vista System LLC: [www.vistasystem.com/#sle](http://www.vistasystem.com/#sle).
  3. Substitutions: See Section 01 6000 - Product Requirements.

## 2.02 PANEL SIGNAGE

- A. Panel Signage:
1. Application: Traffic Signs signs.
  2. Description: Flat signs shall be direct printed ACM media, nontactile characters.
  3. Sign Size: As indicated on drawings.
  4. Total Thickness: 1/4 inch (6 mm).
  5. Sign Edges: Squared.
  6. Color and Font, unless otherwise indicated:
    - a. Character Font: Helvetica, Arial, or other sans serif font.
    - b. Character Case: Upper case only.
    - c. Background Color: Reflective color to be selected by Architect from manufacturer's full range of options.
    - d. Character Color: Contrasting reflective color to be selected by Architect from manufacturer's full range of options color.
  7. Material: Signs shall be fabricated of ACM, 6mm in thickness. ACM shall be rigid and flat and shall be unaffected by wide fluctuations in temperature and humidity. Edges shall be smooth without chips, burrs, sharp edge or marks. The direct print shall be first surface with a protective top-coat to prevent damage from moisture, UV, scratches and strong cleaning agents. Colors and general appearance shall be unaffected for 7 years.
  8. Profile: Flat panel in aluminum frame.
    - a. Frame Finish: Natural (clear) anodized.
  9. Suspended Mounting: Stainless steel suspension bars and ceiling fastener suitable for attachment to ceiling construction indicated.
    - a. Signs shall utilize (2) 1" square by 1/8" wall extruded posts made of clear anodized aluminum alloy 6063.
    - b. The posts shall attach to the concrete ceiling utilizing stainless steel anchors, brackets and hardware. The anchor shall be rustproof with a pull-out strength of 950 lbs. (based on 4000 PSI concrete). The design shall provide a pull-out strength safety factor of 4:1.
    - c. The post suspended signs shall have a break-away capability enabling the sign to rotate up and out of the way should it be contacted by an oncoming vehicle. The sign shall be capable of manually adjusting back to the original position.
    - d. The post suspended signs shall be capable of withstanding 50 mph wind loads.
    - e. The aluminum extrusion shall be equipped with end caps to prevent intrusion of water and debris.
  10. Wall Mounting: Adhesive mount.
    - a. Signs shall utilize adhesive that is waterproof, low odor, low VOC and suitable for use from -30°F - 120°F.

## 2.03 SIGNAGE APPLICATIONS

- A. Traffic Signs: Locate where indicated on drawings.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Verify that substrate surfaces are ready to receive work.
- B. Notify Architect if conditions are not suitable for installation of signs; do not proceed until conditions are satisfactory.

### 3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install with horizontal edges level.
- C. Protect from damage though Substantial Completion; repair or replace damaged items.

**END OF SECTION**



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05/12/2025

**ALASKA COURT**  
**SYSTEM**

**BONEY**  
**COURTHOUSE**  
**PARKING**  
**GARAGE**  
**REPAIRS**

810 WEST 3rd AVENUE  
ANCHORAGE, AK 99501

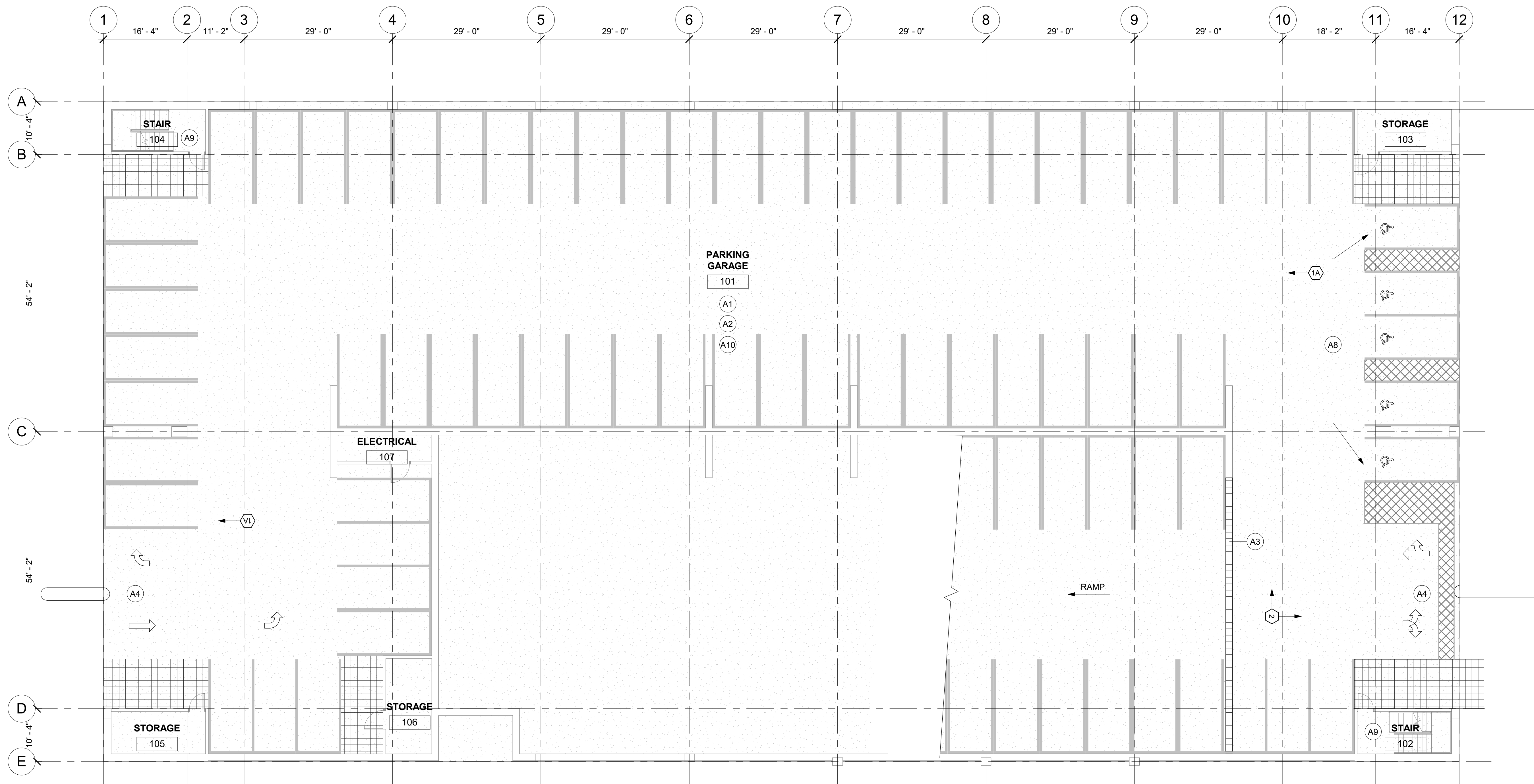
**BID DOCUMENTS**

JOB NO.	2021026.08
DATE:	05/12/2025
PROJ. MGR.:	TJC
DRAWN BY:	TJC
REVIEWED BY:	TJC
REVISIONS:	

**SPECIFICATIONS**

SHEET NO.

**A011**



**1 FLOOR PLAN - LEVEL 1**  
 A101 3/32" = 1'-0"

**KEYNOTES**

- A1 REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL FOR ADDITIONAL REPAIR SCOPE
- A2 PROVIDE NEW STRIPING THROUGHOUT, MATCH EXISTING LAYOUT. STRIPING SHOWN IS GENERAL INTENT, FIELD VERIFY
- A3 EXISTING TRENCH DRAIN
- A4 PAINT TRAVEL DIRECTION ARROWS AT EACH INGRESS/EGRESS POINT
- A5 REMOVE EXISTING EXPANSION JOINT AND INSTALL NEW
- A6 DEMOLISH ALL EXISTING ROOFING, FLASHING, AND PARAPET CAP FLASHING AT TOWERS
- A7 REPAINT ALL PARKING STALL NUMERIC DESIGNATIONS AT EXTERIOR LOCATIONS (2ND LEVEL AND ALONG RAMP), REFER TO NUMBER INDICATED ON PLAN. WHITE BACKGROUND WITH BLACK NUMERIC STENCIL OVER TOP. MATCH EXISTING SIZE AND LOCATION
- A8 REPAINT ACCESSIBLE PARKING SYMBOL AT DESIGNATED STALLS
- A9 REPAINT ALL WALLS AT STAIR, CLEAN STAINS AND PREP SURFACE PER SPECIFICATIONS
- A10 DEMOLISH ALL SUSPENDED AND WALL MOUNTED VEHICULAR AND PEDESTRIAN DIRECTIONAL SIGNAGE AND ASSOCIATED CONDUIT
- A11 AT END OF EXPANSION JOINT, FILL VERTICAL GAP IN CONCRETE WITH COMPRESSIBLE EXPANSION JOINT FILLER AND COVER WITH A SHEET METAL FLASHING COVER SECURED TO ONE SIDE ONLY

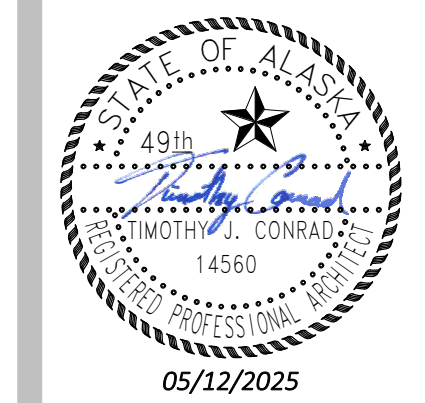
**CODE SUMMARY**

PROJECT DESCRIPTION: THIS PROJECT INVOLVES REPAIRS AND SELECT RENOVATION WORK TO AN EXISTING OPEN PARKING GARAGE.

CONSTRUCTION TYPE: IIB  
 HEIGHT: <20FT  
 AREA: 34,185 SQFT LEVEL 1  
 24,358 SQFT LEVEL 2  
 OCCUPANCY: S-2, OPEN PARKING GARAGE

**KEY**

# SIGN TAG, REFER TO SIGNAGE SCHEDULE



ALASKA COURT SYSTEM

**BONEY COURTHOUSE PARKING GARAGE REPAIRS**

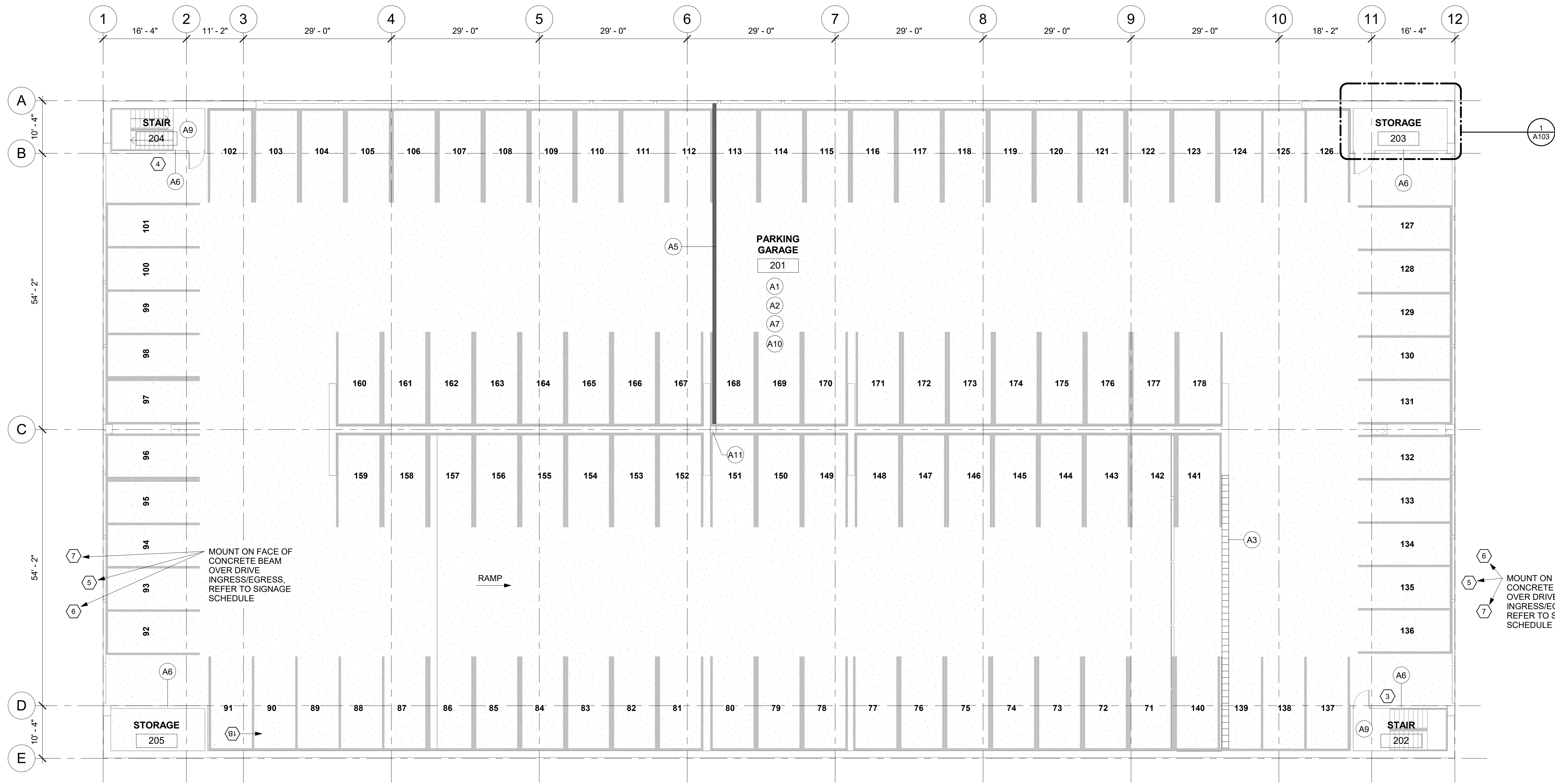
810 WEST 3rd AVENUE ANCHORAGE, AK 99501

BID DOCUMENTS

JOB NO.	2021026.08
DATE:	05/12/2025
PROJ. MGR.:	TJC
DRAWN BY:	TJC
REVIEWED BY:	TJC
REVISIONS:	

**FLOOR PLAN - LEVEL 1, CODE SUMMARY**

SHEET NO. **A101**



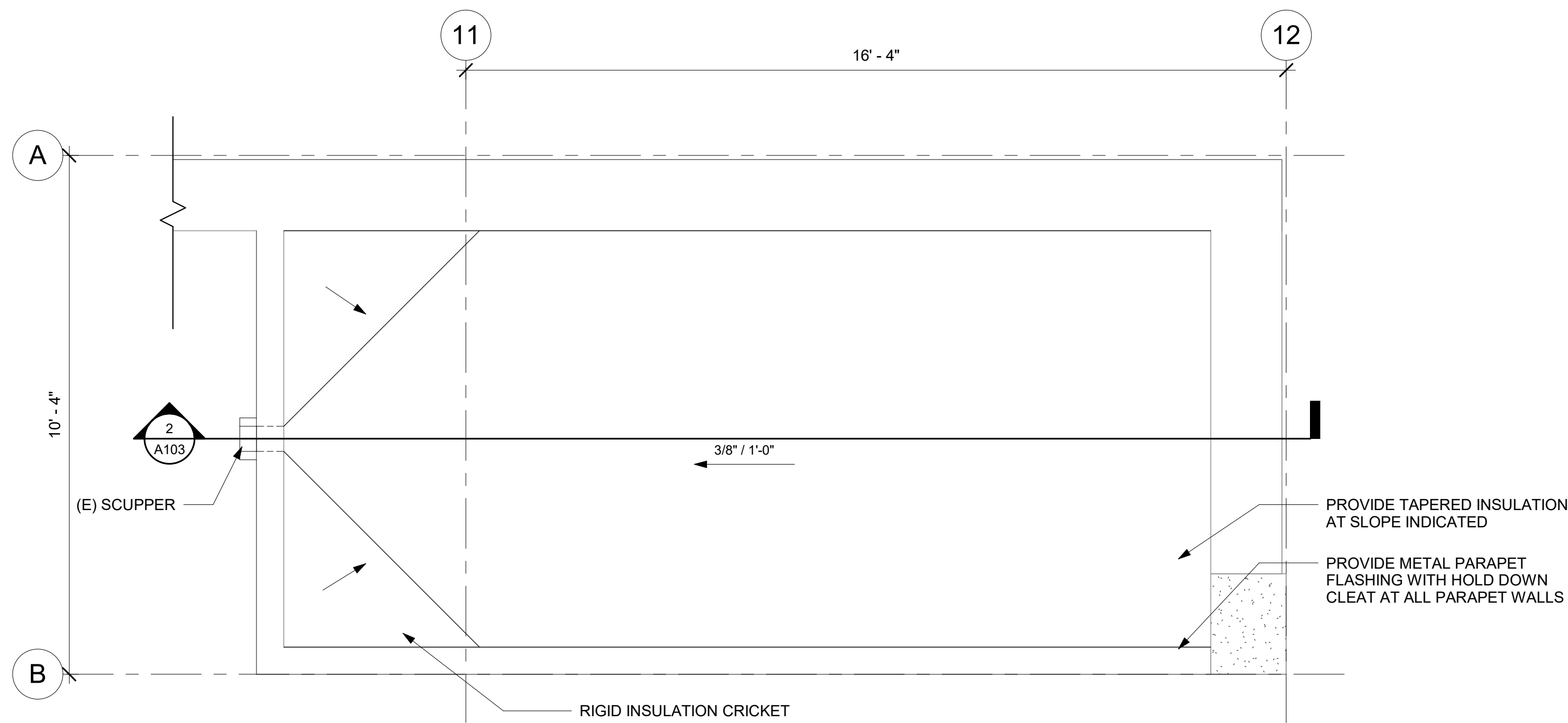
**1 FLOOR PLAN - LEVEL 2**  
A102 3/32" = 1'-0"

**KEYNOTES**

- A1 REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL FOR ADDITIONAL REPAIR SCOPE
- A2 PROVIDE NEW STRIPING THROUGHOUT, MATCH EXISTING LAYOUT. STRIPING SHOWN IS GENERAL INTENT, FIELD VERIFY
- A3 EXISTING TRENCH DRAIN
- A4 PAINT TRAVEL DIRECTION ARROWS AT EACH INGRESS/EGRESS POINT
- A5 REMOVE EXISTING EXPANSION JOINT AND INSTALL NEW
- A6 DEMOLISH ALL EXISTING ROOFING, FLASHING, AND PARAPET CAP FLASHING AT TOWERS
- A7 REPAINT ALL PARKING STALL NUMERIC DESIGNATIONS AT EXTERIOR LOCATIONS (2ND LEVEL AND ALONG RAMP). REFER TO NUMBER INDICATED ON PLAN. WHITE BACKGROUND WITH BLACK NUMERIC STENCIL OVER TOP. MATCH EXISTING SIZE AND LOCATION
- A8 REPAINT ACCESSIBLE PARKING SYMBOL AT DESIGNATED STALLS
- A9 REPAINT ALL WALLS AT STAIR, CLEAN STAINS AND PREP SURFACE PER SPECIFICATIONS
- A10 DEMOLISH ALL SUSPENDED AND WALL MOUNTED VEHICULAR AND PEDESTRIAN DIRECTIONAL SIGNAGE AND ASSOCIATED CONDUIT
- A11 AT END OF EXPANSION JOINT, FILL VERTICAL GAP IN CONCRETE WITH COMPRESSIBLE EXPANSION JOINT FILLER AND COVER WITH A SHEET METAL FLASHING COVER SECURED TO ONE SIDE ONLY

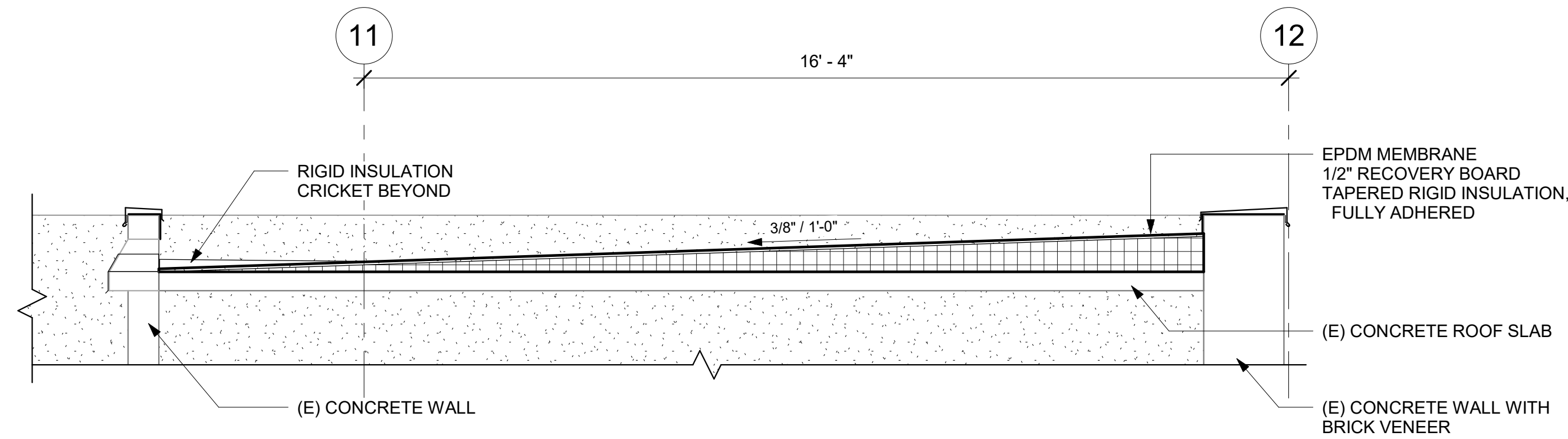
- KEY**
- # SIGN TAG, REFER TO SIGNAGE SCHEDULE

JOB NO.	2021026.08
DATE:	05/12/2025
PROJ. MGR.:	TJC
DRAWN BY:	TJC
REVIEWED BY:	TJC
REVISIONS:	

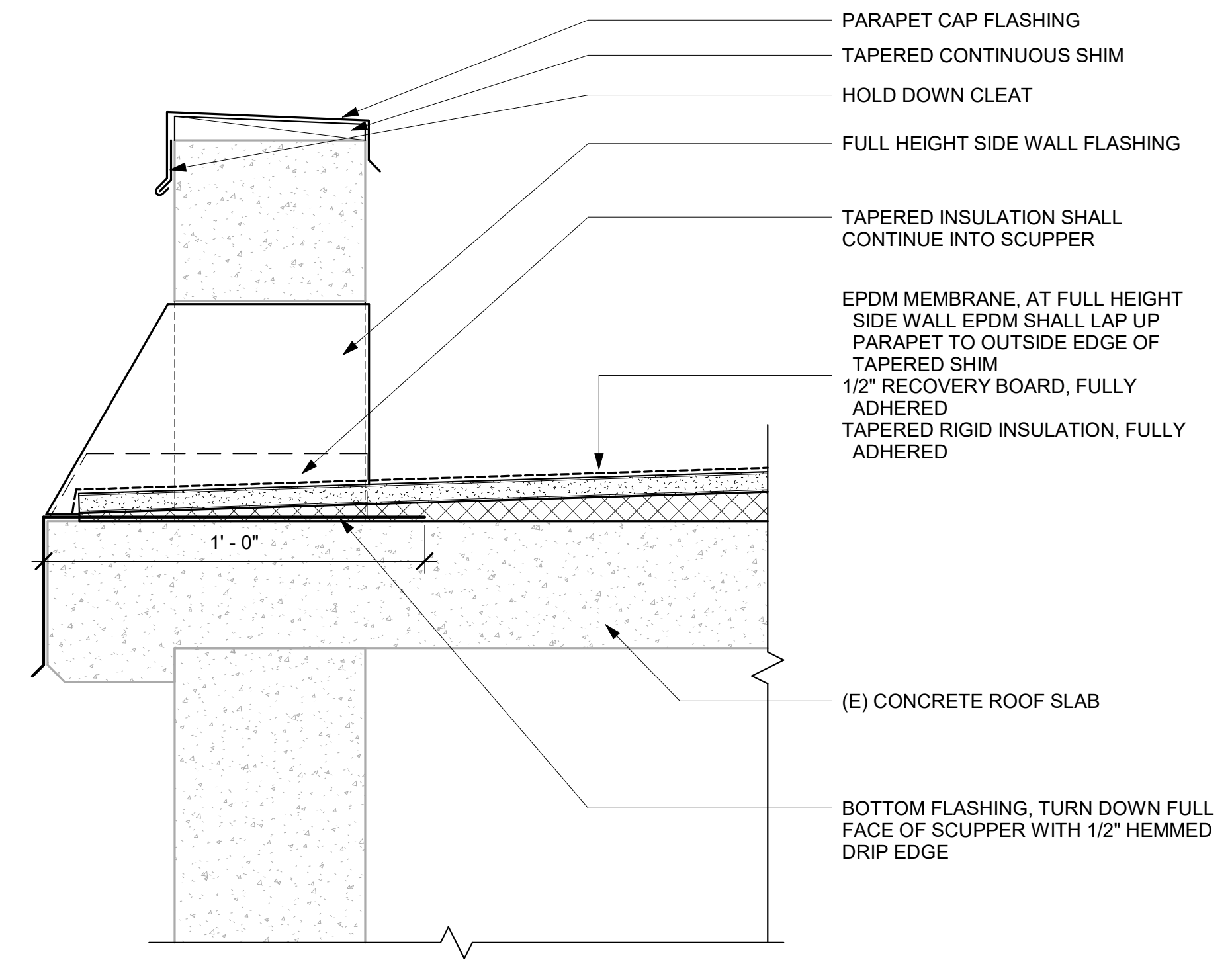


NOTE: THIS LAYOUT IS TYPICAL FOR ALL FOUR TOWERS.

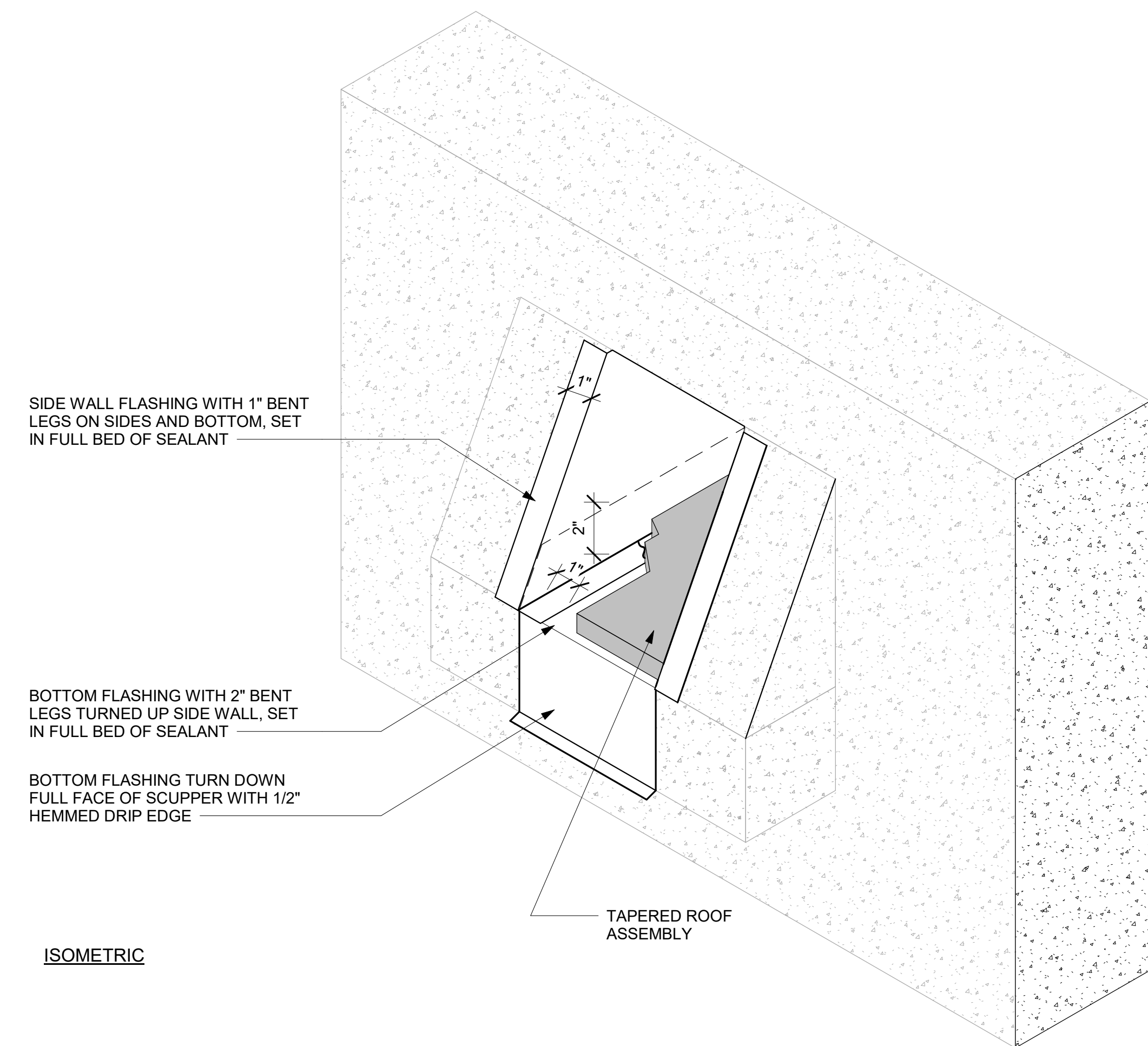
**1** ROOF PLAN, TYPICAL  
A103 1/2" = 1'-0"



**2** ROOF DETAIL SECTION, TYPICAL  
A103 1/2" = 1'-0"

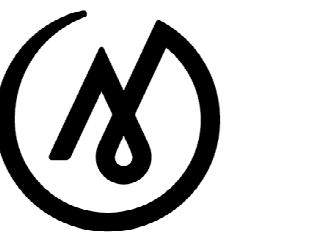


SECTION



ISOMETRIC

**3** SCUPPER / PARAPET DETAIL  
A103 3" = 1'-0"



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ALASKA COURT  
SYSTEM

**BONEY**  
**COURTHOUSE**  
**PARKING**  
**GARAGE**  
**REPAIRS**

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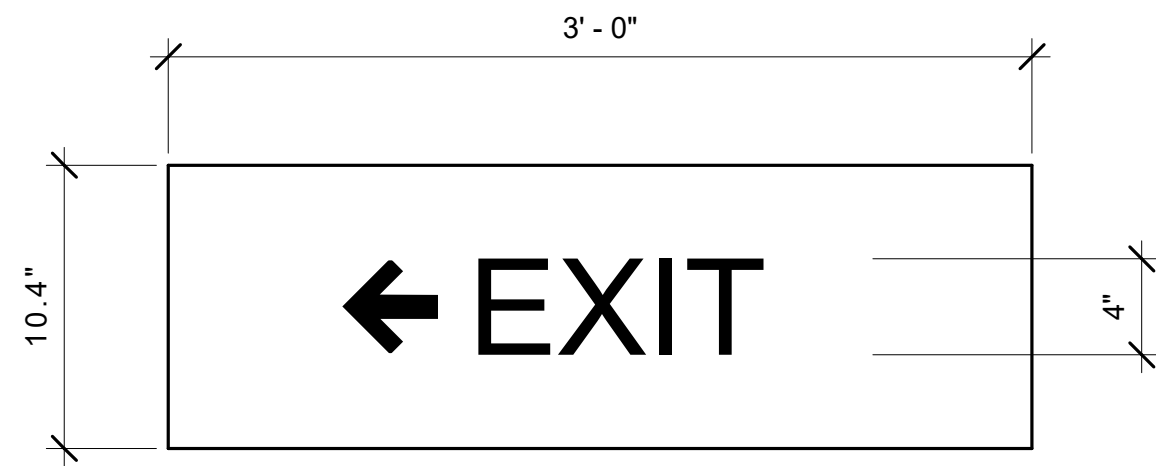
BID DOCUMENTS

JOB NO. 2021026.08  
DATE: 05/12/2025  
PROJ. MGR.: TJC  
DRAWN BY: TJC  
REVIEWED BY: TJC  
REVISIONS:

ROOF PLAN  
ROOF DETAILS

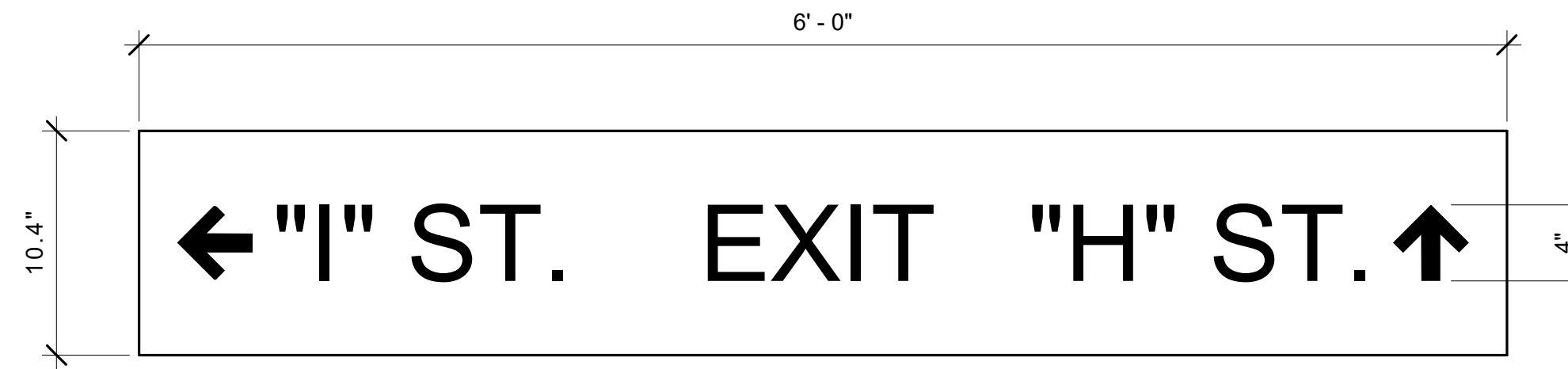
SHEET NO.

**A103**



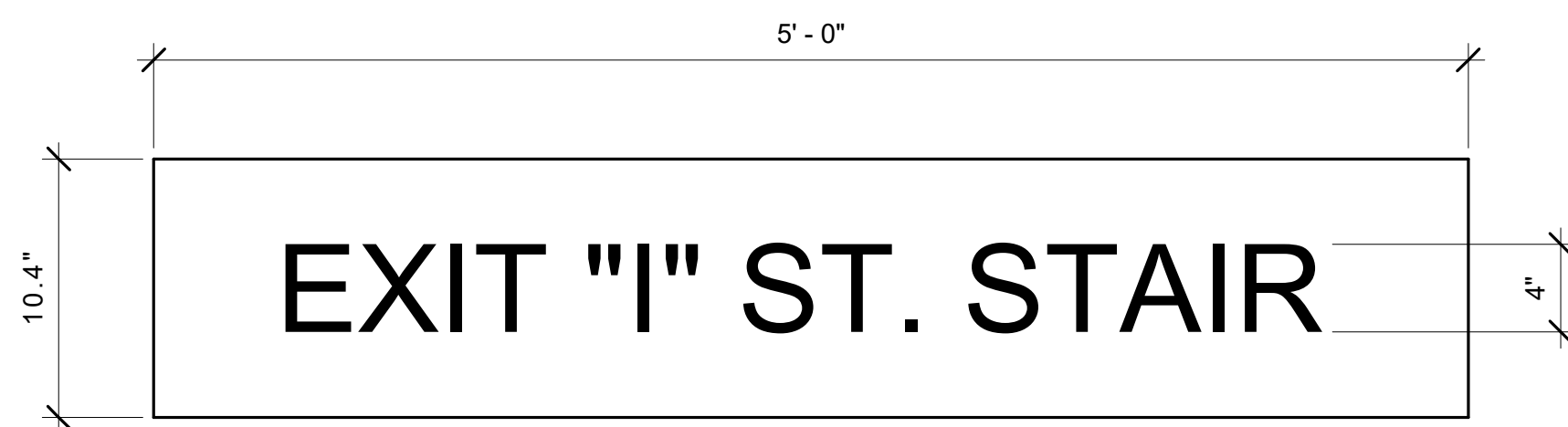
"EXIT" SIGN, PROVIDE DIRECTIONAL ARROW PER PLAN  
TAGS WITH 'A' SHALL BE PROVIDED WITH POST SUSPENDED ATTACHMENT, SET TOP EDGE TO ALIGN WITH BOTTOM OF STRUCTURE  
TAGS WITH 'B' SHALL BE PROVIDED WITH STRUCTURAL ADHESIVE, WALL MOUNTED WITH TOP EDGE ALIGNED WITH TOP OF WALL

1



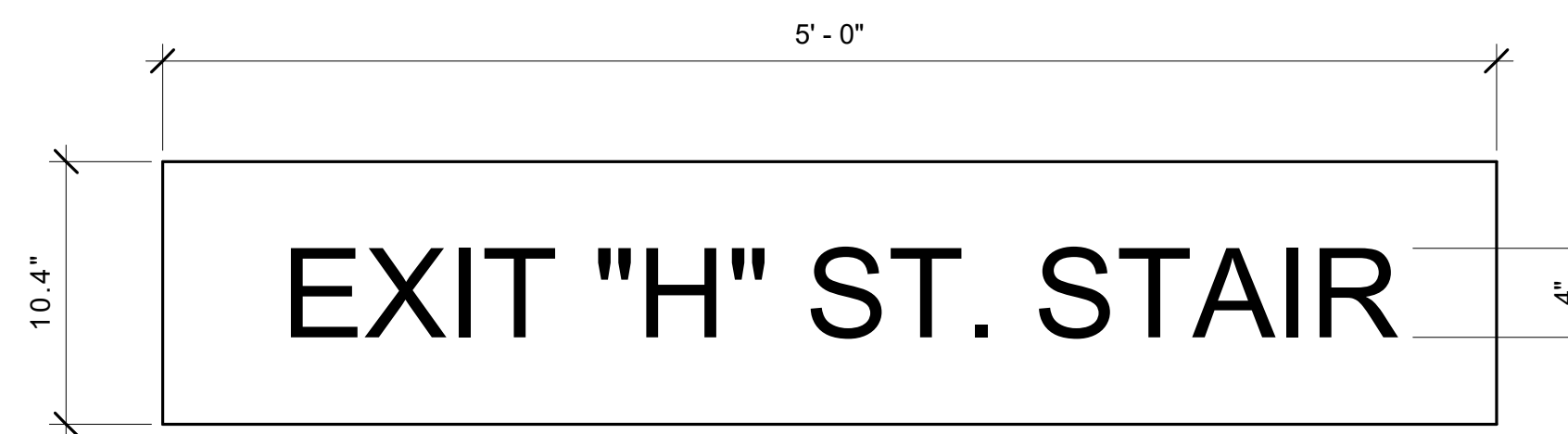
"EXIT" SIGN, PROVIDE POST SUSPENDED ATTACHMENT, SET TOP EDGE TO ALIGN WITH BOTTOM OF STRUCTURE

2



"EXIT" SIGN, PROVIDE STRUCTURAL ADHESIVE ATTACHMENT, WALL MOUNTED WITH BOTTOM EDGE AT 7'-0" AFF

3



"EXIT" SIGN, PROVIDE STRUCTURAL ADHESIVE ATTACHMENT, WALL MOUNTED WITH BOTTOM EDGE AT 7'-0" AFF

4

**CLEARANCE 7 FT. 4 IN.**

"CLEARANCE" SIGN, INDIVIDUAL LETTERS AND NUMBERS, PROVIDE STUD ATTACHMENT  
CENTER UNDER LIGHT FIXTURE

**EXIT**

"EXIT" SIGN, INDIVIDUAL LETTERS, PROVIDE STUD ATTACHMENT  
CENTER OVER EXIT DRIVE LANE, SET BOTTOM EDGE OF LETTERS 2" FROM BOTTOM EDGE OF CONCRETE BEAM

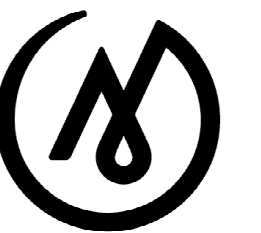
7

**ENTRANCE**

"ENTRANCE" SIGN, INDIVIDUAL LETTERS, PROVIDE STUD ATTACHMENT  
CENTER OVER ENTRANCE DRIVE LANE, SET BOTTOM EDGE OF LETTERS 2" FROM BOTTOM EDGE OF CONCRETE BEAM

8

**1 SIGNAGE**  
A104 1 1/2" = 1'-0"



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**SYSTEM**

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**BID DOCUMENTS**

JOB NO. **2021026.08**  
DATE: **05/12/2025**  
PROJ. MGR.: **TJC**  
DRAWN BY: **TJC**  
REVIEWED BY: **TJC**  
REVISIONS:

**SIGNAGE**  
**SCHEDULE**

SHEET NO.  
**A104**

## PIPING LEGEND

-----	DENOTES DEMOLITION
— —	WASTE
-----	VENT PIPING
-----	COLD WATER
-----	HOT WATER
-----	HOT WATER RECIRCULATED
---XXX---	SEE ABBREVIATIONS FOR MEDIA
—○—	PIPE UP
—○—	PIPE DOWN
—○—	TEE UP
—○—	TEE DOWN
—┘—	CAP
— —	UNION
—▶—	DIRECTION OF FLOW
—○ —	BALL VALVE
— —	CHECK VALVE
— —	BALANCE VALVE
— —	CLEANOUT

	STRAINER W/ BLOWDOWN
	PIPE GUIDE
	PIPE ANCHOR
	FLOOR CLEANOUT
	FLOOR DRAIN
	FLOOR SINK
	DETAILED PIPE UP & DOWN

## LOGIC

	POINT OF CONNECTION
	DETAIL NUMBER
	SHEET LOCATED ON
	DIRECTION OF VIEW
	SECTION NUMBER
	SHEET LOCATED ON
	SHEET NOTES

## ABBREVIATIONS

AAV	AUTOMATIC AIR VENT	DIA	DIAMETER	HGS	HEATING GLYCOL SUPPLY	PH	PHASE
ABV	ABOVE	DIM	DIMENSION	HOA	HAND-OFF-AUTO	PSI	POUNDS PER SQUARE INCH
AC-X	AIR CONDITIONING UNIT DESIGNATOR	DN	DOWN	HP	HORSEPOWER	R/A	RETURN AIR
ADA	AMERICANS WITH DISABILITIES ACT GUIDELINES	DWG	DRAWING	HW	HOT WATER	RD-X	ROOF DRAIN DESIGNATOR
AD	ACCESS DOOR	(E)	EXISTING EQUIPMENT DESIGNATOR	HWC	HOT WATER CIRCULATED	RL	RAINLEADER
AF	AIR FOIL	E/A	EXHAUST AIR	HWG-X	HOT WATER GENERATOR DESIGNATOR	RPM	REVOLUTIONS PER MINUTE
AFF	ABOVE FINISHED FLOOR	EAT	ENTERING AIR TEMPERATURE	IBC	INTERNATIONAL BUILDING CODE	S/A	SUPPLY AIR
AFG	ABOVE FINISHED GRADE	EFF	EFFICIENCY	IN	INCHES	SP	STATIC PRESSURE
AFMS	AIR FLOW MONITORING STATION	EF-X	EXHAUST FAN DESIGNATOR	INS.	INSULATION	SQ	SQUARE
AHAP	AS HIGH AS POSSIBLE	EGT	ENTERING GLYCOL TEMPERATURE	LAT	LEAVING AIR TEMPERATURE	T/A	TRANSFER AIR
AHU-X	AIR HANDLING UNIT DESIGNATOR	ENT	ENTERING	LAV	LAVATORY	TEMP	TEMPERATURE
AL	ALUMINUM	ESP	EXTERNAL STATIC PRESSURE	LF	LINEAL FEET	TOD	TOP OF DUCT
AMPS	AMPERES	ET-X	EXPANSION TANK DESIGNATOR	LGT	LEAVING GLYCOL TEMPERATURE	TSP	TOTAL STATIC PRESSURE
APD	AIR PRESSURE DROP	EXIST	EXISTING	LWT	LEAVING WATER TEMPERATURE	T'STAT	THERMOSTAT
ARCH	ARCHITECTURAL	EXH	EXHAUST	MAX	MAXIMUM	TTL	TOTAL
AS-X	AIR SEPARATOR DESIGNATOR	F	FAHRENHEIT	MBH	THOUSAND BTUH	TYP/TYP.	TYPICAL
B-X	BOILER DESIGNATOR	FCO	FLOOR CLEAN OUT	MCA	MINIMUM CIRCUIT AMPACITY	UH-X	UNIT HEATER DESIGNATOR
BDD	BACKDRAFT DAMPER	FD-X	FLOOR DRAIN DESIGNATOR	MFR	MANUFACTURER	UPC	UNIFORM PLUMBING CODE
BLDG	BUILDING	FIN	FINISHED	M/A	MAKEUP AIR	V	VENT
BOD	BOTTOM OF DUCT	FLA	FULL LOAD AMPS	MIN/MIN.	MINIMUM	VAC	VOLT-AC
BTUH	BRITISH THERMAL UNIT/HOUR	FLR	FLOOR	MOD	MOTOR OPERATED DAMPER	VEL	VELOCITY
CAP	CAPACITY	FLR	FLOOR	MTD	MOUNTED	VDC	VOLT-DC
CFM	CUBIC FEET PER MINUTE	FPM	FEET PER MINUTE	NAT.	NATURAL	VTR	VENT THRU ROOF
CH-X	CHILLER DESIGNATOR	FS-X	FLOOR SINK DESIGNATOR	NC	NOISE CRITERIA	W	WASTE
CIRC	CIRCULATING	FT	FEET	N.C.	NORMALLY CLOSED	W/	WITH
CLG	CEILING	G	NATURAL GAS	NO.	NUMBER	W/O	WITHOUT
CON	CONTINUED	GA	GAUGE	N.O.	NORMALLY OPEN	W.C.	WATER COLUMN
C.O./CO	CLEANOUT	GAL	GALLONS	NTS	NOT TO SCALE	WCO	WALL CLEAN OUT
CONN	CONNECTION	GALV	GALVANIZED	O/A	OUTSIDE AIR	WG	WATER GAUGE
CP-X	CIRCULATION PUMP DESIGNATOR	GPH	GALLONS PER HOUR	O.D.	OUTSIDE DIAMETER	WHA	WATER HAMMER ARRESTOR
CU-X	CONDENSING UNIT DESIGNATOR	GPM	GALLONS PER MINUTE	OC	ON CENTER	WPD	WATER PRESSURE DROP
CUH-X	CABINET UNIT HEATER DESIGNATOR	GT-X	GLYCOL TANK DESIGNATOR	OD	OUTSIDE DAMPER	YCO	YARD CLEAN OUT
CU	COPPER	GTD	GLYCOL TEMPERATURE DROP	OD-X	OVERFLOW DRAIN DESIGNATOR		
CW	COLD WATER	HB-X	HOSE BIBB DESIGNATOR	OL	OVERFLOW RAINLEADER		
dB	DECIBELS	HC-X	HEATING COIL DESIGNATOR	P-X	PLUMBING FIXTURE DESIGNATOR		
DEG	DEGREE	HD	HEAD	PD	PRESSURE DROP		
		HGR	HEATING GLYCOL RETURN	P&P.G.	PROPYLENE GLYCOL		

## PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MOUNTING	CW	TW	WASTE	VENT	TRAP	BASIS OF DESIGN	MODEL	POWER REQ.	FINISH	REMARKS
RD-1	PARKING DECK DRAIN - SQUARE	FLOOR	--	--	3	--	--	WATTS	FD-930	--	EPOXY COATED	EPOXY COATED DECK DRAIN FOR PRE-CAST CONCRETE, NO-HUB OUTLET, VANDAL RESISTENT GRATE.
TD-1	TRENCH DRAIN - GRATE ONLY	--	--	--	--	--	--	WATTS	DLG-RSP	--	STAINLESS	GRATE ONLY, NO DRAIN BODY, REINFORCED STAINLESS STEEL TRENCH DRAIN GRATE, RATED FOR HEAVY DUTY TRAFFIC, VERIFY EXISTING TRENCH DRAIN WIDTH PRIOR TO ORDER.

## MECHANICAL SPECIFICATIONS

### SECTION 22 05 00 - COMMON WORK RESULTS FOR MECHANICAL

THE INFORMATION SHOWN ON THESE PLANS FOR EXISTING CONDITIONS IS TAKEN FROM A NON-DESTRUCTIVE INVESTIGATION OF THE FACILITY. THE INFORMATION SHOWN FOR EXISTING CONDITIONS MAY OR MAY NOT BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.

PLANS - THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED. CONTRACTOR IS TO COORDINATE PIPING, DUCTWORK, SPRINKLER HEADS, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS TO AVOID CONFLICTS. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITY REGULATIONS TO THE ATTENTION OF THE OWNER. CODES, ORDINANCES, REGULATIONS, STANDARDS, OR MANUFACTURER'S INSTRUCTIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS. MAINTAIN CODE MINIMUM MECHANICAL SERVICE TO ALL AREAS IMPACTED BY WORK WHERE STILL OCCUPIED BY THE OWNER.

STANDARDS, CODES, AND REGULATIONS - ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), INTERNATIONAL FIRE CODE (IFC), UNIFORM PLUMBING CODE (UPC), INTERNATIONAL ENERGY CONSERVATION CODE (IECC), AND NATIONAL ELECTRIC CODE (NEC) AS AMENDED BY THE MUNICIPALITY OF ANCHORAGE.

PERMITS - THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

SUBMITTALS - SUBMITTALS SHALL BE IN ELECTRONIC FORM. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION. SUBMIT ON ALL SCHEDULED EQUIPMENT AND ALL MATERIALS AND EQUIPMENT AS NOTED IN THE SPECIFICATIONS.

MATERIALS - ALL MATERIALS OTHER THAN OWNER SUPPLIED SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

EQUIPMENT SUBSTITUTIONS - ALL EQUIPMENT LISTED AND SCHEDULED ARE REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. "OR EQUAL" SUBSTITUTIONS WILL BE CONSIDERED IF SUBSTITUTE DATA SHEETS ARE SUBMITTED AND ARE SHOWN TO BE OF EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, AND SIZE AND WEIGHT. OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL SUBSTITUTIONS.

WORKMANSHIP - INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, AND THIRD PARTY LISTINGS WHERE APPLICABLE.

WARRANTY - ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM PROJECT COMPLETION AND OWNER ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE WARRANTY PERIOD.

OPERATION AND MAINTENANCE MANUAL - PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL. TO INCLUDE DATA CUTSHEETS MARKED WITH THE SPECIFIC ITEM USED, MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, RECORD DRAWINGS WITH INSTALLED LOCATIONS NOTED, SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE. OPERATION AND MAINTENANCE MANUAL SHALL BE IN ELECTRONIC FORM AND SHALL BE SUBMITTED FOR REVIEW. THE DATA SHALL BE ARRANGED AND BOOKMARKED BY SPECIFICATION SECTION.

RECORD DRAWINGS - PROVIDE ACCURATE PROJECT RECORD DRAWINGS, SHOWN IN RED INK ON A CLEAN SET OF PRINTS. SHOWING ALL CHANGES FROM THE ORIGINAL PLANS MADE DURING INSTALLATION OF THE WORK. SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL MECHANICAL WORK THAT IS PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN. SUBMIT ORIGINAL COPY TO OWNER AT THE COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION INSPECTION.

### SECTION 22 05 29 - HANGERS & SUPPORTS FOR PIPING & EQUIPMENT

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
  1. PIPE HANGERS AND SUPPORTS
    - a. HANGERS FOR PIPES 2" TO 4" - CARBON STEEL, ADJUSTABLE CLEVIS.
    - b. WALL SUPPORTS FOR PIPES 1/2" TO 3" - CAST IRON HOOK.
    - c. WALL SUPPORTS FOR PIPES 4" AND LARGER - WELDED STEEL BRACKET, WROUGHT STEEL CLAMP W/ ADJUSTABLE STEEL YOKE AND CAST IRON ROLL.
- C. INSTALLATION
  1. DESIGNED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE (UPC) FOR DOMESTIC WASTE, VENT, AND WATER PIPING.
  2. INSTALLED AS PER THE MANUFACTURERS INSTRUCTIONS. PROVIDE SEISMIC SUPPORT FOR ALL PIPING IN ACCORDANCE WITH IBC.

### SECTION 22 07 00 - INSULATION

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS
  1. PIPING INSULATION - GLASS FIBER, RIGID, MOLDED, NON-COMBUSTIBLE INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.24 AT 75 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL; JOHNS MANVILLE "MICRO-LOK" OR EQUAL. COMPLETE WITH VAPOR BARRIER JACKET AND PLASTIC COVERS FOR FITTINGS.
  2. PVC JACKETING - ONE PIECE FITTING COVERS AND JACKETING MATERIALS, PRE-MOLDED TYPE. JOHNS MANVILLE "ZESTON 2000" OR APPROVED EQUAL. JOHNS MANVILLE "PERMA-WELD" SOLVENT WELDING ADHESIVE.
- C. INSTALLATION
  1. PIPING
    - a. INSULATE ALL PIPING WITH PRE-FORMED FIBERGLASS INSULATION, COMPLETE WITH FACTORY VAPOR BARRIER AND PVC JACKETING FOR FITTINGS. PVC JACKETING TO BE PROVIDED FOR ALL PIPING BELOW 10' AFF IN FINISHED SPACES OR IN MECHANICAL ROOMS.
    - b. INSULATE ALL RAIN LEADER PIPING WITH 1" INSULATION.
    - c. INSULATE ALL DECK DRAIN SUMPS WITH 2" INSULATION.
    - d. EXTERIOR APPLICATIONS: PROVIDE WEATHER PROTECTION JACKET. INSULATED PIPE, FITTINGS, JOINTS, AND VALVES SHALL BE COVERED WITH METAL JACKET. JACKET SEAMS SHALL BE LOCATED ON THE BOTTOM OF HORIZONTAL PIPING.
  2. INSTALL ALL INSULATION MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND ALL APPLICABLE BUILDING CODES AND INDUSTRY STANDARDS.

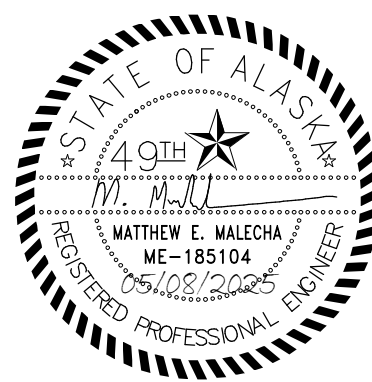
### SECTION 22 10 00 - PLUMBING PIPING

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL, PIPING SYSTEM PRESSURE TEST RESULTS.
- B. MATERIALS:
  1. STORM WATER PIPING, ABOVE GRADE:
    - a. CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.
- C. INSTALLATION
  1. TEST ALL NEW PORTIONS OF PIPING IN ACCORDANCE WITH THE UPC.
  2. INSTALL ALL PIPING IN CRAFTSMANLIKE MANNER, PLUMB AND PARALLEL TO BUILDING LINES. GROUP PIPING AT COMMON ELEVATIONS WHERE PRACTICAL.
  3. PROVIDE CLEARANCE FOR INSTALLATION OF INSULATION AND ACCESS TO VALVES AND FITTINGS.



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SYSTEM

**BONEY  
COURTHOUSE  
PARKING  
GARAGE  
REPAIRS**

810 WEST 3rd AVENUE  
ANCHORAGE, AK 99501

**BID DOCUMENTS**

JOB NO.	<b>M5040</b>
DATE:	<b>05/12/2025</b>
PROJ. MGR.:	<b>MEM</b>
DRAWN BY:	<b>MEM</b>
REVIEWED BY:	<b>MRF</b>
REVISIONS:	

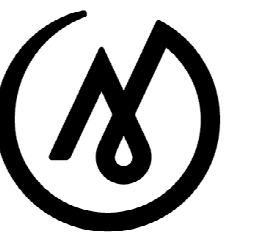
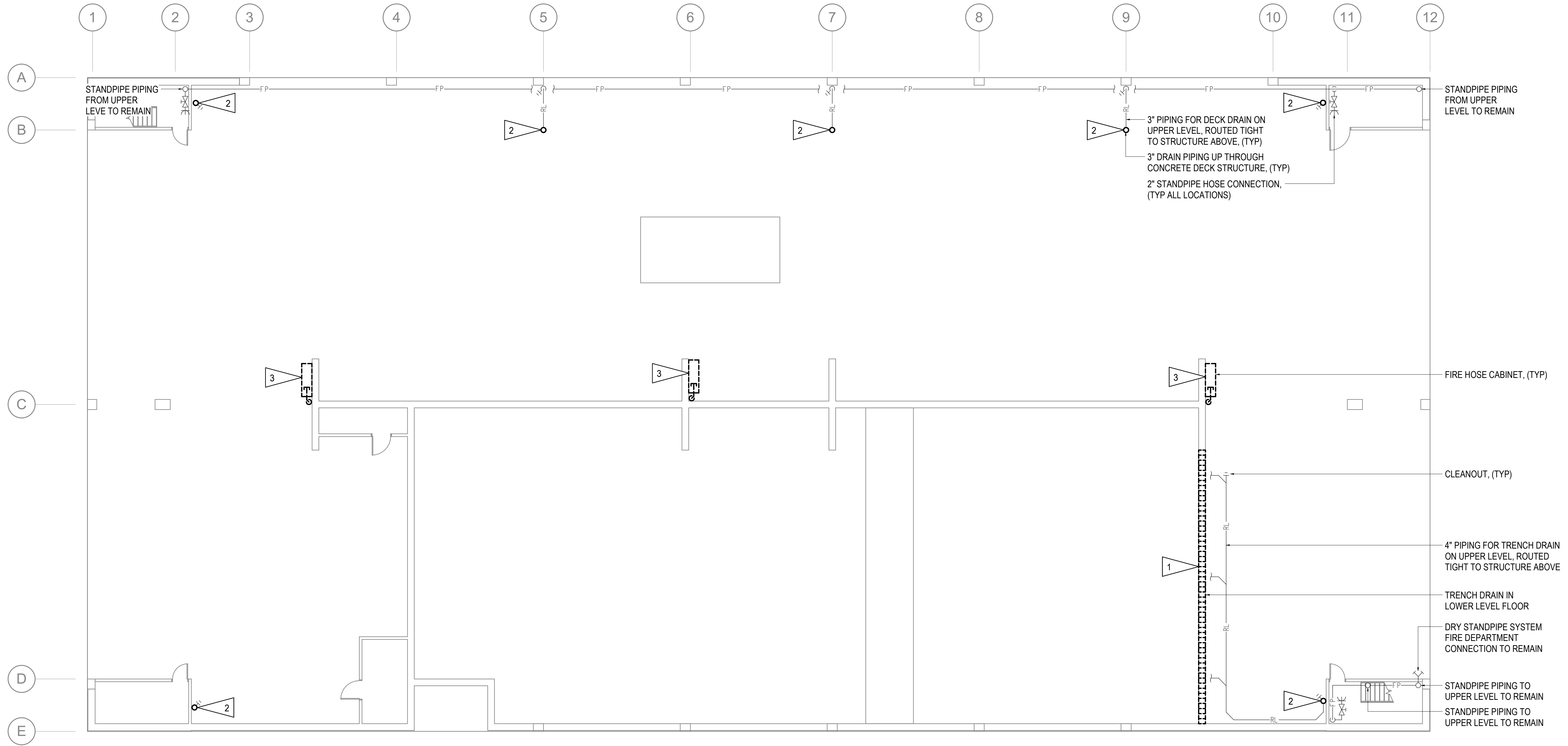
**MECHANICAL  
LEGEND,  
SCHEDULES,  
ABBREVIATIONS,  
AND  
SPECIFICATIONS**

SHEET NO.

**M001**

**SHEET NOTES:** #

1. DEMOLISH EXISTING TRENCH DRAIN GRATE, EXISTING PRE-FORMED TRENCH DRAIN BODY TO REMAIN.
2. DEMOLISH DRAIN PIPING UP THROUGH CONCRETE PARKING DECK STRUCTURE, EXISTING PIPING DOWN TO BELOW SLAB SHALL REMAIN FOR RECONNECTION. DEMOLISH EXISTING INSULATION AND INSULATION JACKETING ON EXPOSED PIPING.
3. DEMOLISH FIRE HOSE CABINET AND PIPING IN ITS ENTIRETY. CAP BELOW GRADE FIRE SPRINKLER PIPING BELOW GRADE AND PATCH CONCRETE.



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COURTHOUSE  
PARKING  
GARAGE  
REPAIRS**

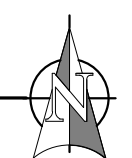
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ANCHORAGE, AK 99501

BID DOCUMENTS

JOB NO. M5040  
DATE: 05/12/2025  
PROJ. MGR.: MEM  
DRAWN BY: MEM  
REVIEWED BY: MRF  
REVISIONS:

**MECHANICAL  
DEMOLITION PLAN -  
LOWER LEVEL**

**1 MECHANICAL DEMOLITION PLAN - LOWER LEVEL**  
3/32" = 1'-0"

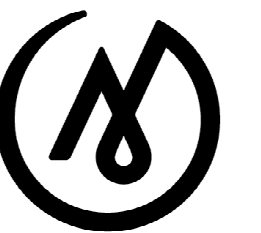
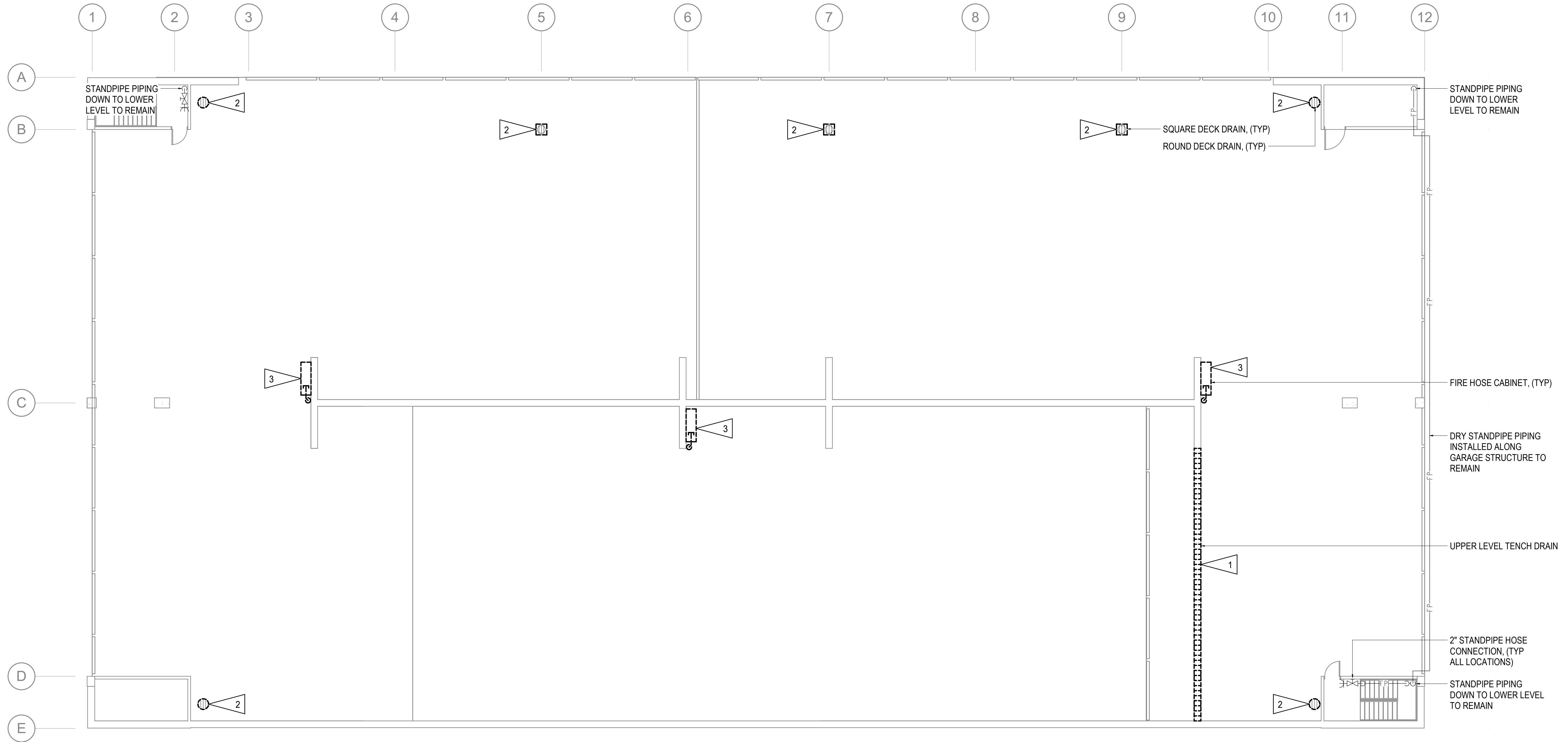


SHEET NO.

**M101**

**SHEET NOTES:** 

1. DEMOLISH EXISTING TRENCH DRAIN GRATE, EXISTING PRE-FORMED TRENCH DRAIN BODY TO REMAIN.
2. DEMOLISH DECK DRAIN AND PIPING DOWN THROUGH CONCRETE PARKING DECK STRUCTURE, PIPING BELOW DECK SHALL REMAIN FOR RECONNECTION. DEMOLISH PORTION OF CONCRETE DECK AROUND DEMOLISHED DRAIN AS NECESSARY TO ACCOMMODATE NEW DRAIN.
3. DEMOLISH FIRE HOSE CABINET AND PIPING IN ITS ENTIRETY.



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**BONEY  
COURTHOUSE  
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GARAGE  
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ANCHORAGE, AK 99501

BID DOCUMENTS

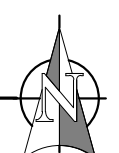
JOB NO.: M5040  
DATE: 05/12/2025  
PROJ. MGR.: MEM  
DRAWN BY: MEM  
REVIEWED BY: MRF  
REVISIONS:

**MECHANICAL  
DEMOLITION PLAN -  
UPPER LEVEL**

SHEET NO.

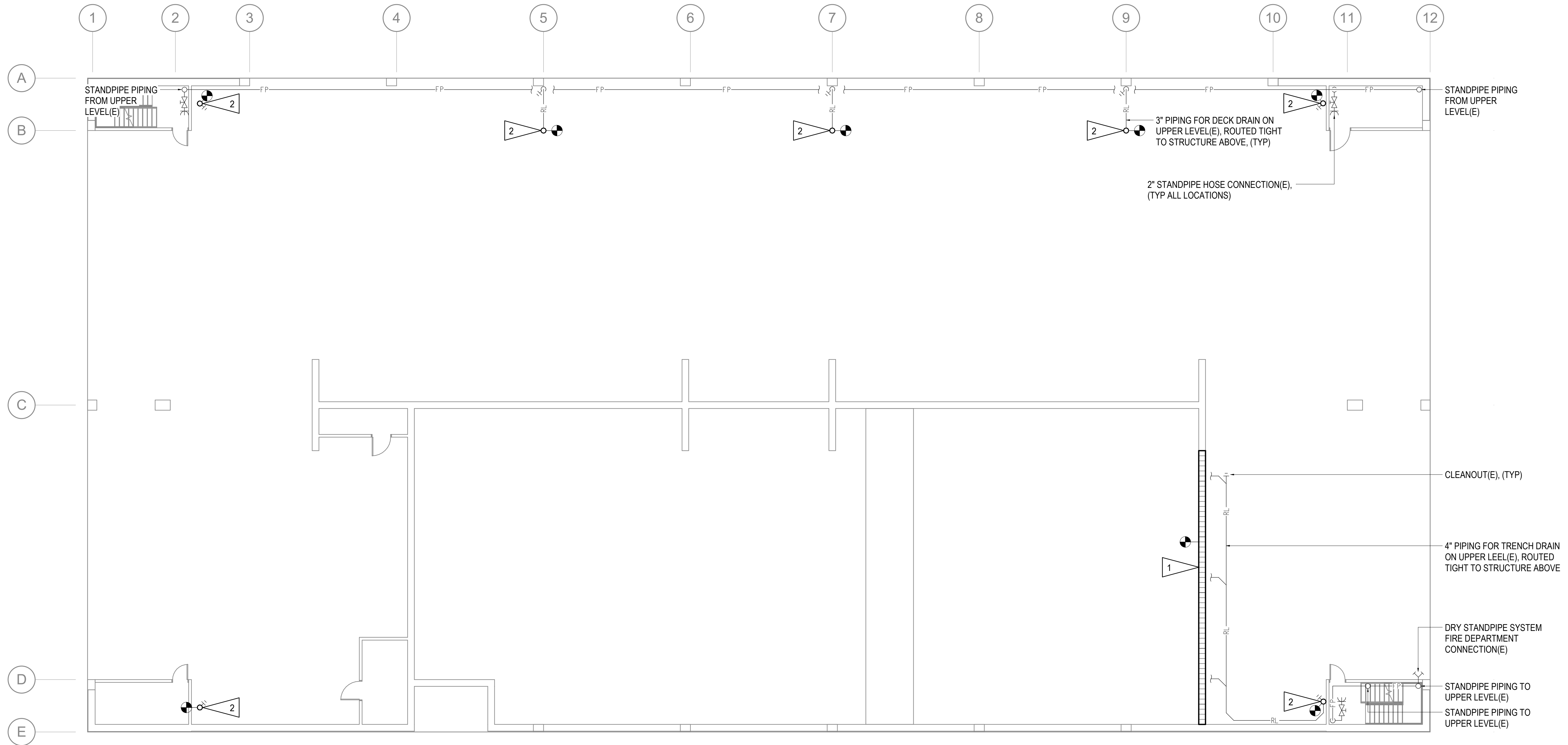
**M102**

**1 MECHANICAL DEMOLITION PLAN - UPPER LEVEL**  
3/32" = 1'-0"

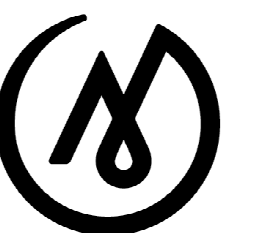


**SHEET NOTES:** #

1. PROVIDE TRENCH DRAIN GRATE TD-1 ON EXISTING TRENCH DRAIN BODY IN GARAGE FLOOR, FIELD VERIFY DIMENSIONS OF EXISTING DRAIN.
2. PROVIDE 3" DRAIN PIPING UP THROUGH GARAGE STRUCTURE AND CONNECT TO DRAIN RD-1 ABOVE. RE-INSULATE AND RE-JACKET ALL EXPOSED PIPING.

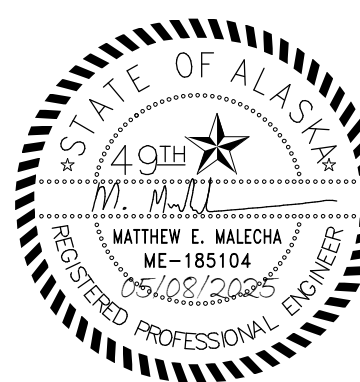


**1 MECHANICAL REMODEL PLAN - LOWER LEVEL**  
3/32" = 1'-0"



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**BONEY  
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PARKING  
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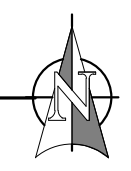
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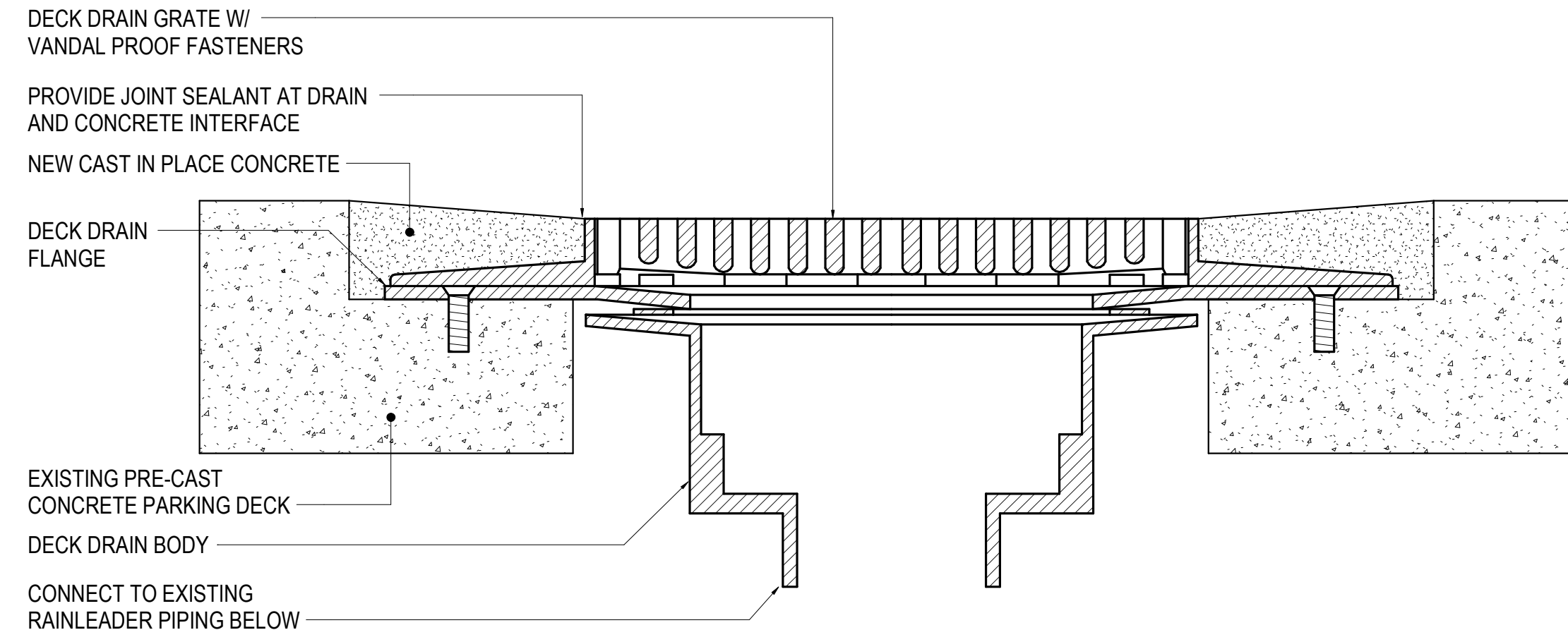
BID DOCUMENTS

JOB NO.	M5040
DATE:	05/12/2025
PROJ. MGR.:	MEM
DRAWN BY:	MEM
REVIEWED BY:	MRF
REVISIONS:	

**MECHANICAL  
REMODEL PLAN -  
LOWER LEVEL**

SHEET NO.  
**M201**



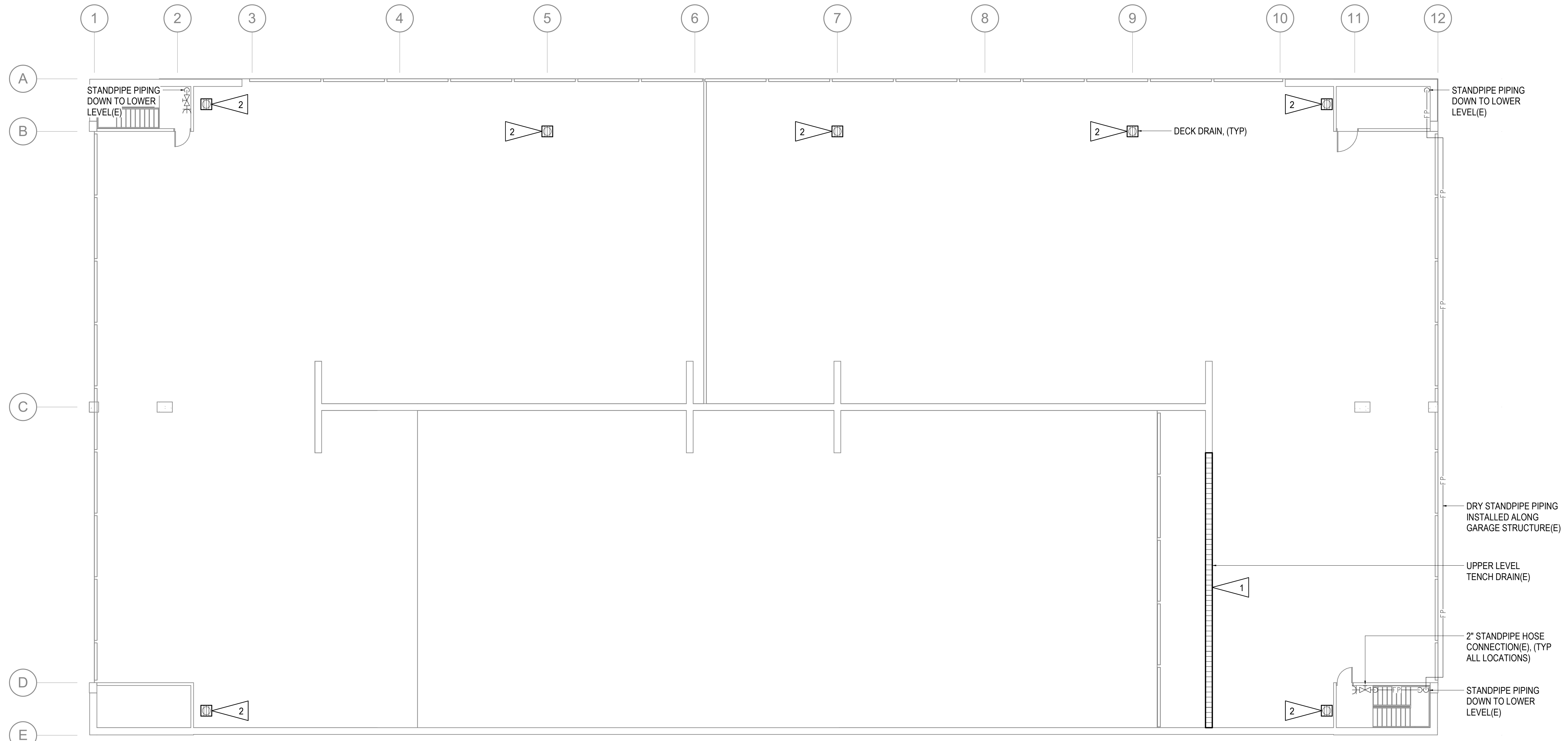


**SHEET NOTES:** #

1. PROVIDE TRENCH DRAIN GRATE TD-1 ON EXISTING TRENCH DRAIN BODY IN GARAGE FLOOR, FIELD VERIFY DIMENSIONS OF EXISTING DRAIN.
2. INSTALL DECK DRAIN RD-1 IN UPPER LEVEL GARAGE FLOOR. INSTALL DRAIN FLUSH TO NEW DRIVING SURFACE AND PER MFRG INSTALLATION INSTRUCTIONS. PROVIDE 3" DRAIN PIPING DOWN THROUGH GARAGE STRUCTURE AND CONNECT TO EXISTING 3" PIPING BELOW. FOR DECK DRAIN DETAIL SEE -

2  
M202

**2 DECK DRAIN DETAIL**  
NOT TO SCALE



**1 MECHANICAL REMODEL PLAN - UPPER LEVEL**  
3/32" = 1'-0"



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JOB NO.	M5040
DATE:	05/12/2025
PROJ. MGR.:	MEM
DRAWN BY:	MEM
REVIEWED BY:	MRF
REVISIONS:	

**MECHANICAL  
REMODEL PLAN -  
UPPER LEVEL**

SHEET NO.  
**M202**

## ELECTRICAL SPECIFICATIONS

### 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

- A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR AN EXTENSION TO THE EXISTING ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- B. STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES. COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION.
- C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE OWNER. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
- D. RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.
- E. WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.
- F. SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM, NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- G. OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER'S PERSONNEL. DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM INCLUDING START-UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN. PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING, INSPECTION AND LUBRICATION WITH RECOMMENDED LUBRICANTS. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION, EXPLODED VIEWS, ETC.
- H. WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.
- I. PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES.
- J. REFERENCE SYMBOLS: THE ELECTRICAL "LEGEND" ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE "LEGEND" AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.

### 26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL

- A. DEMOLITION DRAWINGS ARE BASED ON NON-DESTRUCTIVE FIELD OBSERVATION. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DISTURBING THE EXISTING INSTALLATION. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS (TELEPHONE, FIRE ALARM, LIGHTING, ELECTRICAL SERVICE, ETC.) IN SERVICE DURING CONSTRUCTION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.
- B. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- C. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED CONDUIT. WHERE ABANDONED CONDUIT ENTERS EXISTING SURFACES TO REMAIN, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED.

### 26 05 19 - WIRE AND CABLE

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE #12 AWG.
- C. INSTALLATION:
- COLOR CODE WIRES BY LINE OR PHASE. COLOR CODE THE 120/208V CONDUCTORS BLACK, RED, BLUE, AND WHITE.
  - DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT THAT REQUIRES A NEUTRAL.
  - USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER.
  - INSTALLATION SCHEDULE: BUILDING WIRE IN RACEWAYS AT ALL LOCATIONS.

### 26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIAL: SUPPORT CHANNEL SHALL BE GALVANIZED OR PAINTED STEEL. HARDWARE SHALL BE CORROSION RESISTANT.
- C. INSTALLATION:
- USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS; SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES.
  - POWER-DRIVEN FASTENERS ARE PROHIBITED FOR TENSION LOAD APPLICATIONS (SUCH AS SUPPORTING LUMINARIES OR CONDUIT RACKS FROM CEILING ABOVE). USE DRILLED-IN EXPANSION ANCHORS, OR DRILLED AND SCREW-IN ANCHORS SUCH AS KWIK-CON II OR TAPCON.

### 26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- RIGID STEEL CONDUIT: ANSI C80.1. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE WITH INSULATED THROAT BUSHINGS, MATERIAL TO MATCH CONDUIT.
  - INTERMEDIATE METAL CONDUIT (IMC): GALVANIZED STEEL. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; USE FITTINGS AND CONDUIT BODIES SPECIFIED ABOVE FOR RIGID STEEL CONDUIT.
  - LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT WITH PVC JACKET. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
  - PROVIDE GALVANIZED OR CADMIUM PLATED, ONE PIECE PRESSED STEEL OUTLET BOXES 4 INCH SQUARE OR OCTAGONAL, 1-1/2 INCHES DEEP MINIMUM SIZE FOR USE IN INTERIOR AREAS.
  - PROVIDE CAST ALUMINUM OR FERROALLOY TYPE BOXES WITH GASKETED COVER, THREADED HUBS AND NEMA 3R RATING FOR USE IN EXTERIOR OR WET LOCATIONS.
- C. INSTALLATION:
- INSTALL CONDUIT FOR ALL SYSTEMS UNLESS OTHERWISE NOTED, 1/2 INCH MINIMUM SIZE, EXCEPT CONDUIT FOR SPECIAL SYSTEMS SHALL BE 3/4" MINIMUM AND BELOW GRADE SHALL BE MINIMUM 1" OR IN SLAB. IN SLAB ABOVE GRADE, EXPOSED OUTDOOR LOCATIONS AND WET INTERIOR LOCATIONS SHALL BE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT.
  - EQUIPMENT CONNECTIONS SHALL BE SHORT EXTENSIONS OF LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND FITTINGS TO ALLOW FOR VIBRATION.
  - INSTALL RACEWAYS PER THE LATEST NECA (NATIONAL ELECTRICAL CONTRACTOR'S ASSOCIATION) STANDARDS.
  - PROVIDE RACEWAYS CONCEALED IN CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE, OR WHERE INSTALLED AT EQUIPMENT CONNECTIONS.
  - INSTALL RACEWAYS LEVEL AND SQUARE TO A TOLERANCE OF 1/8 INCH PER 10 FEET. ROUTE EXPOSED RACEWAYS AND RACEWAYS ABOVE ACCESSIBLE CEILINGS PARALLEL AND PERPENDICULAR TO WALLS, CEILING, STRUCTURAL MEMBERS AND ADJACENT PIPING.
  - PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE.
  - SUPPORT BOXES INDEPENDENTLY OF CONDUIT.

### 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS




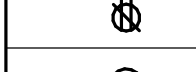
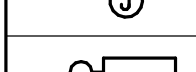

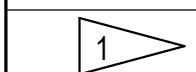
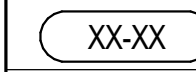
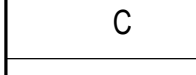
- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.
  - WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
- C. INSTALLATION:
- JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER. MARK ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS.
  - WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END.

### 26 05 80 - HEATING CABLES AND MATS

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
- INSIDE PIPE: UNLESS OTHERWISE NOTED ON PLANS. HEAT TRACE SHALL BE RATED 5 WATTS PER FOOT, 120V, SELF-REGULATING TYPE, WITH PARALLEL CIRCUIT DESIGN, 16 AWG TIN-COATED COPPER BUS WIRING, TIN PLATED COPPER BRAID, FLUOROPOLYMER OUTER JACKET, AND 20-YEAR LIFE. RAYCHEM #BTV SERIES, NELSON #LT SERIES, OR APPROVED EQUAL. INSTALL HEAT TRACE IN PIPING OR AS SHOWN ON PLANS.
  - ACCESSORIES: PROVIDE ALL POWER CONNECTION AND END TERMINATION KITS AS RECOMMENDED BY THE HEAT TRACE MANUFACTURER FOR A COMPLETE AND OPERABLE SYSTEM.
- C. INSTALLATION:
- INSTALL HEAT TRACE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - FIELD VERIFY THE REQUIRED HEAT TRACE TYPE AND LENGTHS ARE AS SCHEDULED ON THE PLANS PRIOR TO ORDERING ANY EQUIPMENT OR PERFORMING ANY WORK. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES.
  - TEST PROPER OPERATION OF EACH HEAT TRACE CIRCUIT AFTER INSTALLATION.
  - INSTALL SIGNAGE NOT EXCEEDING 20FT ON PIPING CONTAINING HEAT TRACE IN ACCORDANCE WITH NEC 427.13.

### 26 50 00 - LIGHTING FIXTURES

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
- C. LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC. ALL LIGHTING EQUIPMENT INSTALLED IN LAY-IN TYPE CEILINGS SHALL BE PROVIDED WITH SAFETY CHAINS, CAPABLE OF SUPPORTING 200 POUNDS, SECURELY FASTENED TO THE LIGHT FIXTURE AND THE BUILDING STRUCTURE SO THAT NO PART OF THE FIXTURE WILL DROP BELOW A HEIGHT OF 7'-6" ABOVE THE FLOOR IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.
- D. LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT -20 WHERE INSTALLED OUTDOORS.
- E. LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50,000 HOURS.
- F. LED EMERGENCY DRIVERS: UL LISTED, FACTORY INSTALLED, SELF-CONTAINED EMERGENCY POWER SUPPLY AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER, WITH MINIMUM WATTAGE, VOLTAGE AND AMPERE RATINGS SUITABLE OF AUTOMATICALLY OPERATING THE SPECIFIED FIXTURE AT 90 MINUTES UNDER LOSS OF UTILITY POWER. 120/277V INPUT.
- C. INSTALLATION:
- PROVIDE LUMINAIRE DISCONNECTING MEANS IN BALLAST/DRIVER CHANNEL OF EACH LIGHT FIXTURE. WHERE THE LUMINAIRE IS FED FROM A MULTI-WIRE BRANCH CIRCUIT, PROVIDE MULTI-POLE DISCONNECT TO SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDED CONDUCTOR.
  - TEST OPERATION OF ALL EMERGENCY LIGHTS BY SIMULATING A POWER OUTAGE FOR 90 MINUTES. CONFIRM THAT ALL EMERGENCY LIGHTING IS OPERATIONAL AND MEETS THE REQUIREMENTS OF NEC 700.12(A). CORRECT ALL DEFICIENCIES PRIOR TO SUBSTANTIAL COMPLETION.

ELECTRICAL LEGEND	
	CONDUIT, CONCEALED
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	JUNCTION BOX
	POLE-MOUNTED AREA LIGHT
	DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
	NOTE TAG (No. INDICATES NOTE)
	CIRCUIT TAG (No. INDICATES CIRCUIT)
C	CONDUIT
E	DENOTES EXISTING ITEM
HT	HEAT TRACE
LV XFMR	LOW VOLTAGE TRANSFORMER
NEC	NATIONAL ELECTRICAL CODE
TYP	TYPICAL
WP	WEATHERPROOF

**ELECTRICAL LOAD CALCULATION:  
NET CHANGE IN LOAD IS NEGLIBLE.**

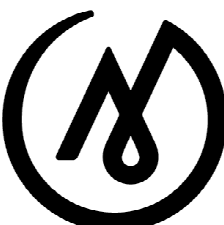
## LIGHT FIXTURE SCHEDULE

TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT			
<b>A</b>	AS SHOWN	ELLIPTIPAR #S175 L 4 HFC 06 M V0 O 940 00	4' SMALL LINEAR OUTDOOR LED -20C RATED FIXTURE, 6" STEM CANTILEVER, DARK BRONZE FINISH WITH CUTOFF VISOR. PROVIDE MOUNTING HUBS AND END CAPS AS REQUIRED.	SURFACE	MATCH EXISTING LOCATION	4,000K 6,292LM	120/277V DRIVER	52
<b>X</b>	AS SHOWN	LITHONIA #LV S W 1 G 120/277 EL N CW SD	LED EXIT SIGN -40C NEMA 4X WET LOCATION RATED FIXTURE, WHITE HOUSING, GREEN LETTERING, NICKEL CADMIUM BATTERY, SELF-DIAGNOSTICS.	SURFACE	MATCH EXISTING LOCATION	-	120/277V DRIVER	27

**RSA**

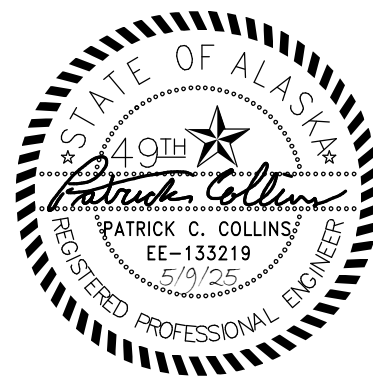
Mechanical and  
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**MCG**  
EXPLORE  
DESIGN

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Anchorage, Alaska 99501  
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**ALASKA COURT  
SYSTEM**

**BONEY  
COURTHOUSE  
PARKING  
GARAGE  
REPAIRS**

810 WEST 3rd AVENUE  
ANCHORAGE, AK 99501

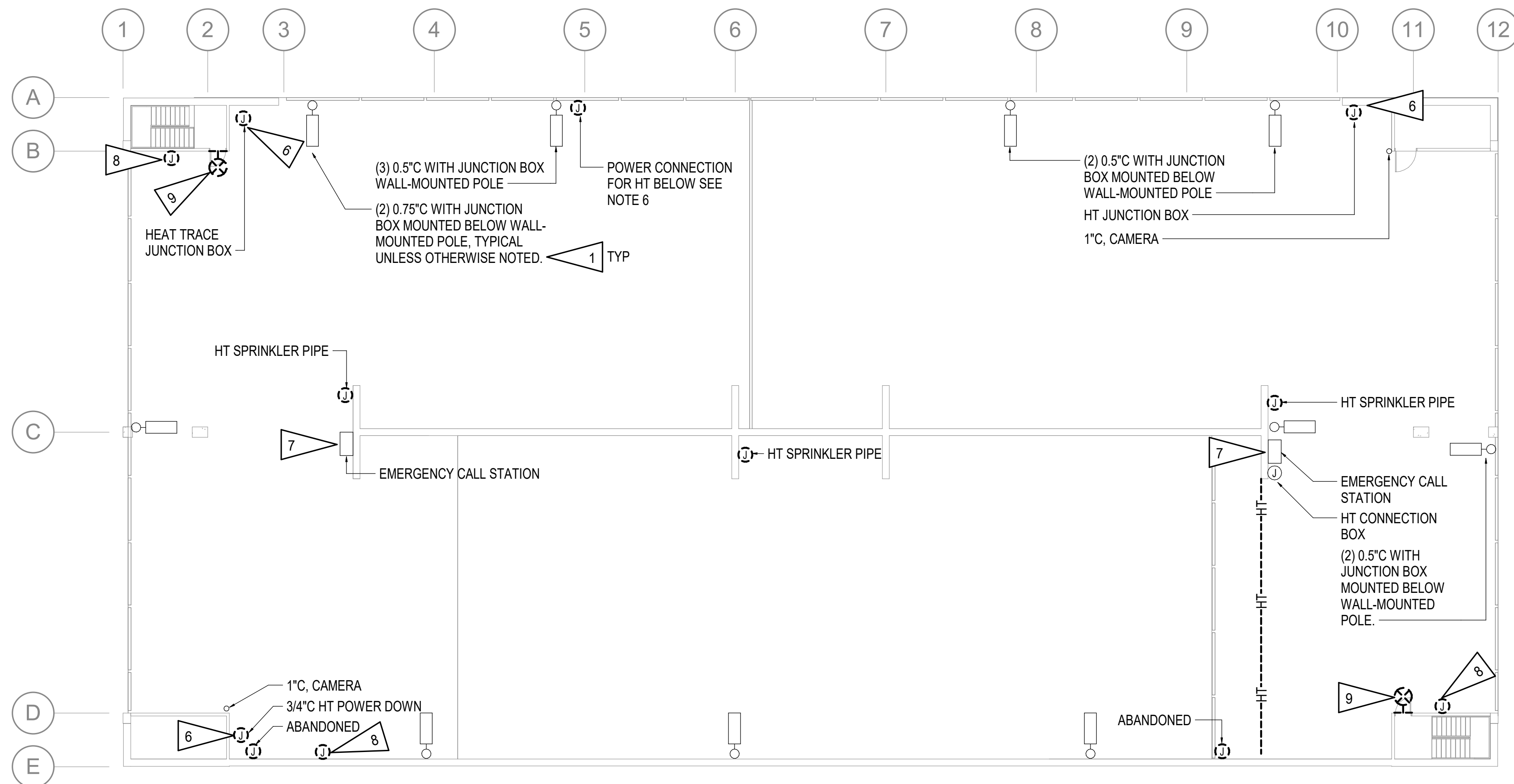
**Bid Documents**

JOB NO. **M5040**  
DATE: **05/12/2025**  
PROJ. MGR.: **LKH**  
DRAWN BY: **LKH**  
REVIEWED BY: **PCC, FWS**  
REVISIONS:

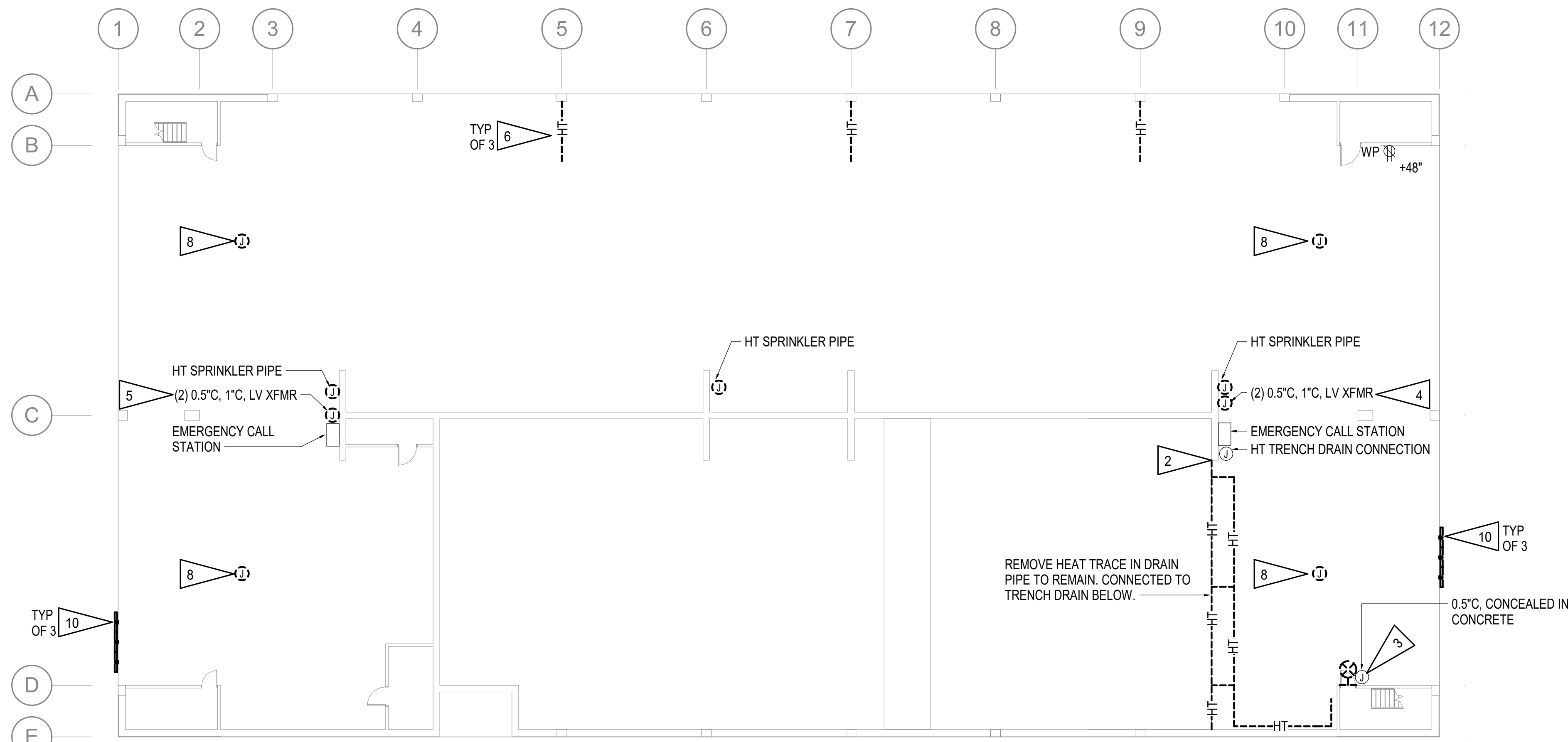
**ELECTRICAL  
LEGEND,  
SPECIFICATIONS,  
AND FIXTURE  
SCHEDULE**

SHEET NO.

**E001**



**1 POWER DEMOLITION PLAN - UPPER LEVEL**  
1/16" = 1'-0"



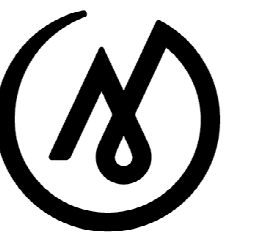
**2 POWER DEMOLITION PLAN - LOWER LEVEL**  
1/16" = 1'-0"

**GENERAL NOTES:**

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

**SHEET NOTES:**

- 1. REMOVE AND SALVAGE JUNCTION BOX AND CONDUCTORS BACK TO NEAREST JUNCTION BOX FOR REUSE. DEMOLISH ASSOCIATED CONDUIT. SEE 4/E102 FOR PHOTO.
- 2. DEMOLISH CONDUIT BETWEEN DRAIN AND HEAT TRACE CONNECTION BELOW GRADE.
- 3. DEMOLISH CORRODED CONDUIT SERVING THE LIGHTING SYSTEM TO EXTENT NECESSARY. REMOVE AND SALVAGE CONDUCTORS BACK TO NEAREST JUNCTION BOX FOR REUSE. SEE 3/E102 FOR PHOTO.
- 4. CONTRACTOR TO RING OUT CIRCUITS AND VERIFY ANY LOADS TO REMAIN IN USE. DEMOLISH ANY AND ALL CONDUCTORS AND EQUIPMENT NO LONGER IN USE. SALVAGE CIRCUITS TO REMAIN AND DEMOLISH ANY BELOW GRADE CONDUIT AND REPLACE AS NECESSARY. SEE 2/E102 FOR PHOTO.
- 5. CONTRACTOR TO RING OUT CIRCUITS AND VERIFY ANY LOADS TO REMAIN IN USE. DEMOLISH ANY AND ALL CONDUCTORS AND EQUIPMENT NO LONGER IN USE. SALVAGE CIRCUITS TO REMAIN AND DEMOLISH ANY BELOW GRADE CONDUIT AND REPLACE AS NECESSARY. SEE 1/E102 FOR PHOTO.
- 6. DEMOLISH HEAT TRACE IN DOWN PIPE DRAIN THROUGH LOWER LEVEL FLOOR. SEE MECHANICAL. SALVAGE CIRCUIT FOR CONNECTION TO NEW HEAT TRACE ON EXISTING CIRCUIT.
- 7. DEMOLISH CONDUIT WITH (2) CONDULETS WHICH FEED EMERGENCY CALL STATION AND POLE-MOUNTED CAMEAR. SALVAGE ALL CABLING FOR CONNECTION TO EQUIPMENT TO REMAIN.
- 8. DEMOLISH DIRECTIONAL SIGN AND ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
- 9. DEMOLISH EXIT SIGN AND SALVAGE CONDUIT AND WIRE FOR REUSE.
- 10. DEMOLISH LIGHT FIXTURE AND SALVAGE CONDUIT AND WIRE FOR REUSE.



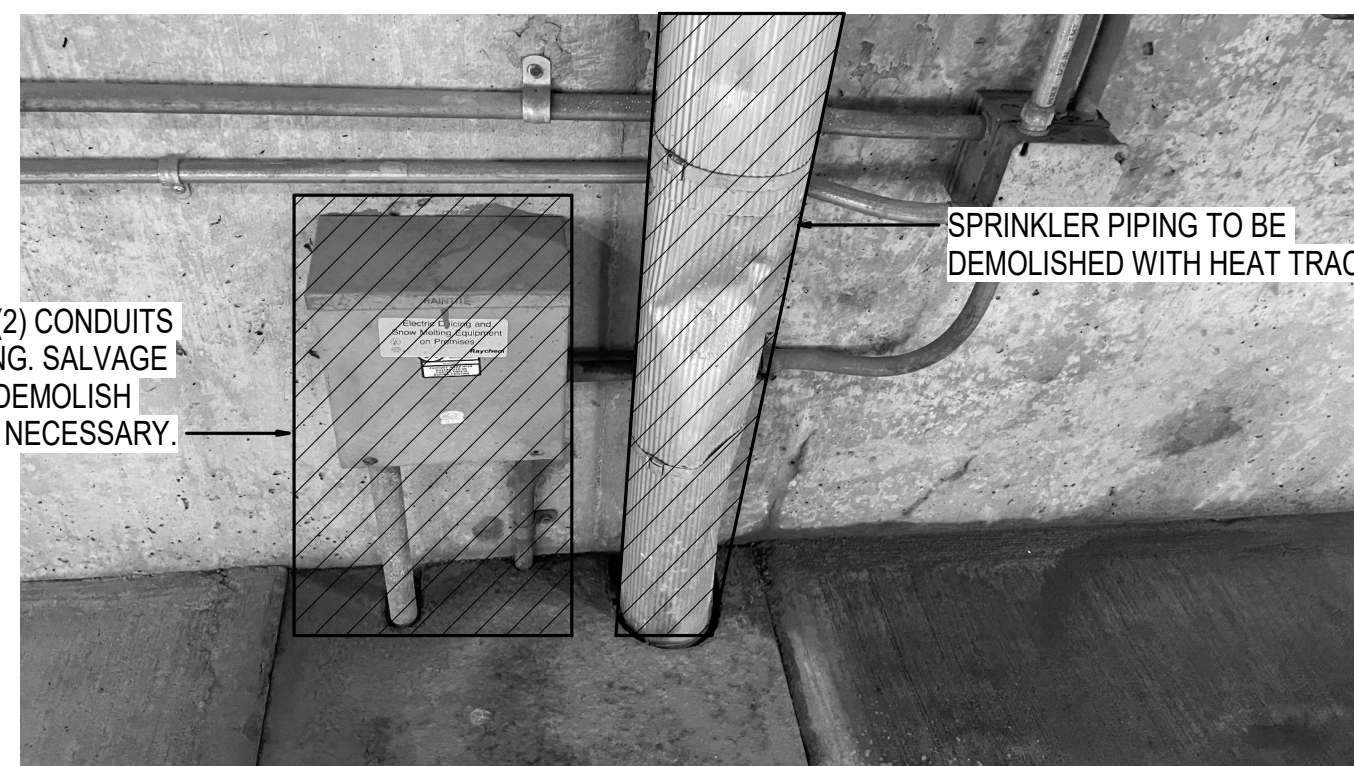
JOB NO.	M5040
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DRAWN BY:	LKH
REVIEWED BY:	PCC, FWS
REVISIONS:	



SPRINKLER PIPING TO BE DEMOLISHED WITH HEAT TRACE.

LV XFMR WITH (4) CONDUITS WITH CIRCUITING. SALVAGE CIRCUITS AND DEMOLISH EQUIPMENT AS NECESSARY.

**1** LV XFMR WEST PHOTO  
NOT TO SCALE



LV XFMR WITH (2) CONDUITS WITH CIRCUITING. SALVAGE CIRCUITS AND DEMOLISH EQUIPMENT AS NECESSARY.

SPRINKLER PIPING TO BE DEMOLISHED WITH HEAT TRACE.

**2** LV XFMR EAST PHOTO  
NOT TO SCALE



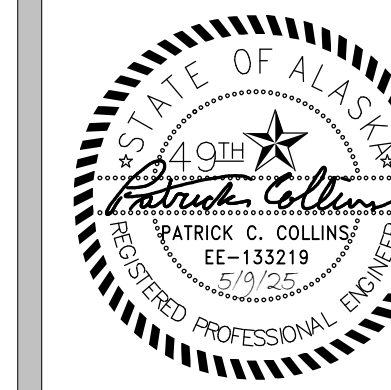
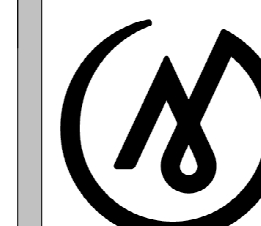
CONDUIT AND JUNCTION BOX TO BE REMOVED AND REPLACED, ASSUME 20 LINEAR FEET. SALVAGE WIRING FOR RECONNECTION.

**3** CORRODED CONDUIT PHOTO  
NOT TO SCALE

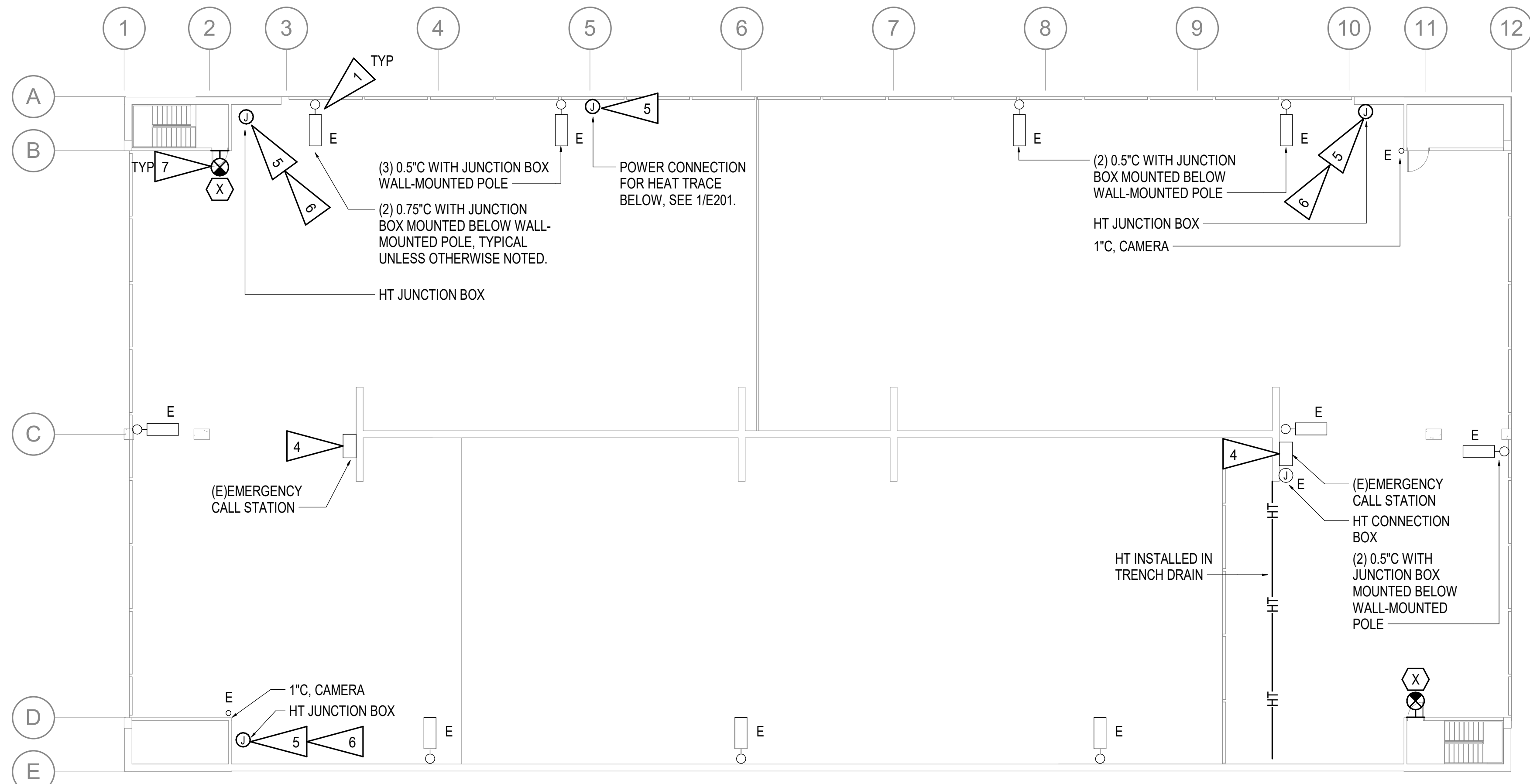


HEAT TRACE JUNCTION BOX

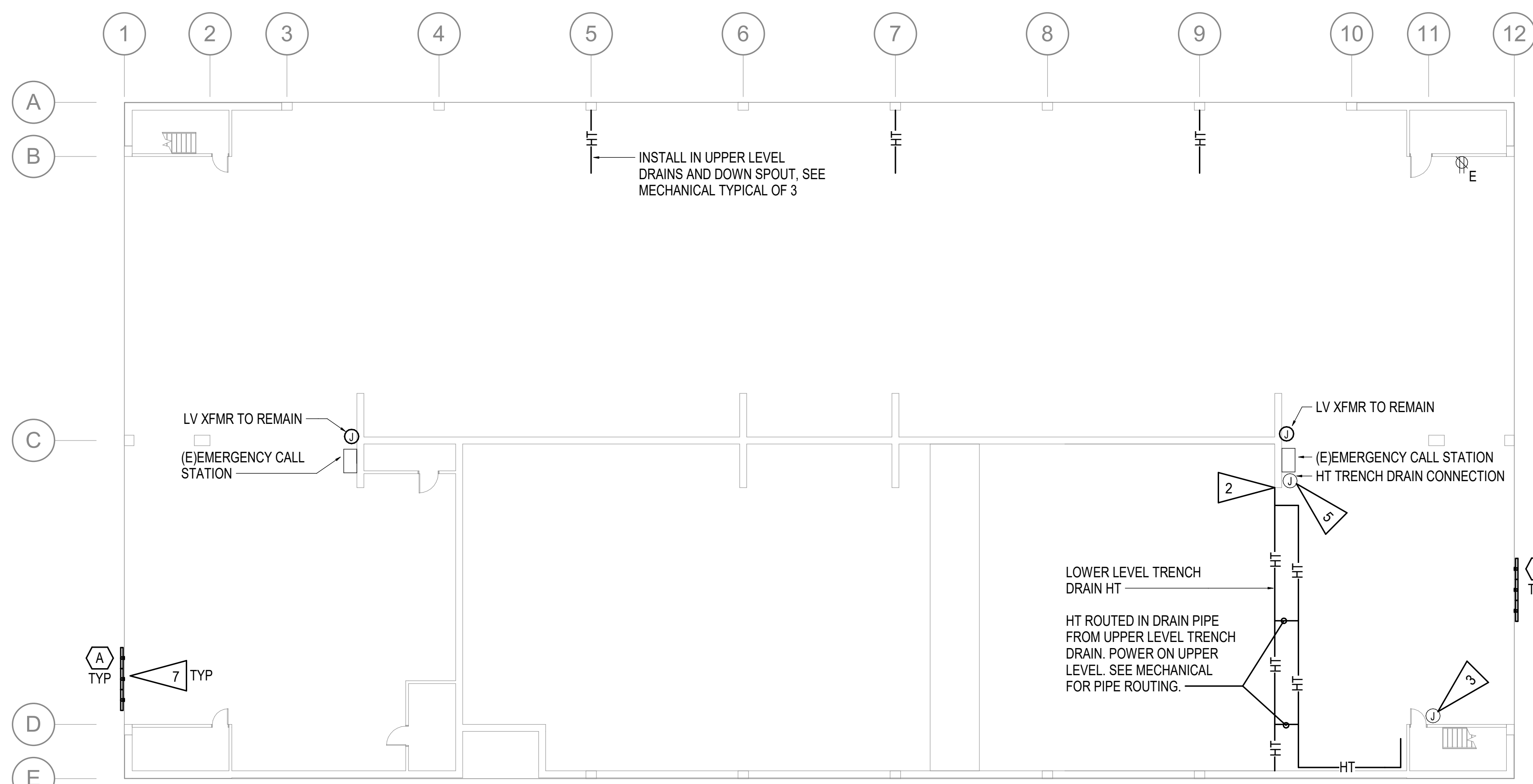
**4** POLE LIGHT  
NOT TO SCALE



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**1 POWER REMODEL PLAN - UPPER LEVEL**  
1/16" = 1'-0"



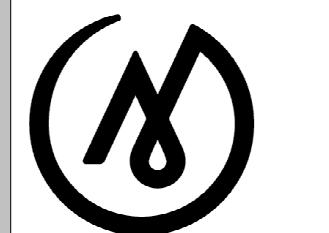
**2 POWER REMODEL PLAN - LOWER LEVEL**  
1/16" = 1'-0"

**GENERAL NOTES:**

- A. ASSUME ALL EXISTING HEAT TRACE CIRCUITS ARE GROUND FAULT PROTECTED.

**SHEET NOTES:**

1. INSTALL CONDUIT AS REQUIRED AND RECONNECT SALVAGED CONDUCTORS AND JUNCTION BOXES.
2. INSTALL NEW CONDUIT WITH HEAT TRACE TO TRENCH DRAIN BELOW GRADE, INSTALL ABOVE GRADE AS MUCH AS POSSIBLE. PATCH AND REPAIR SURFACE AS REQUIRED. PROVIDE EXTENSION OF EXISTING CIRCUIT TO NEW HEAT TRACE IN TRENCH DRAIN. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE AS REQUIRED.
3. INSTALL NEW CONDUIT AND EXTEND AND RECONNECT SALVAGED CONDUCTORS TO PROVIDE A SAFE AND WORKING CIRCUIT. SEE 3/E102 FOR EXTENT OF WORK.
4. INSTALL LMFC BETWEEN STUB UP AND JUNCTION BOX. REINSTALL EXISTING CABLING AND TERMINATE AS REQUIRED.
5. PROVIDE EXTENSION OF EXISTING CIRCUIT TO NEW HEAT TRACE. PROVIDE JUNCTION BOXES, CONDUIT, AND WIRE AS REQUIRED.
6. INSTALL HEAT TRACE IN DRAIN AND DOWN PIPE, SEE MECHANICAL.
7. DEMOLISH EXISTING LIGHT FIXTURES AND INSTALL NEW FIXTURES IN EXISTING LOCATION. PROVIDE JUNCTION BOXES, CONDUIT AND WIRE AS REQUIRED.



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