

UNIVERSITY MEDICAL CENTER TTUHSC DOCK EXPANSION

3601 4TH STREET
LUBBOCK, TX 79430

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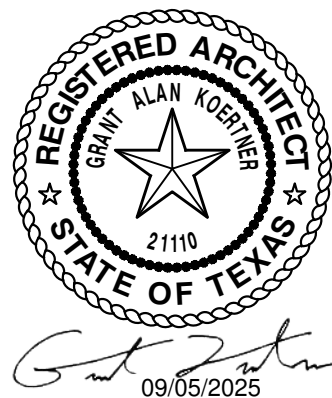
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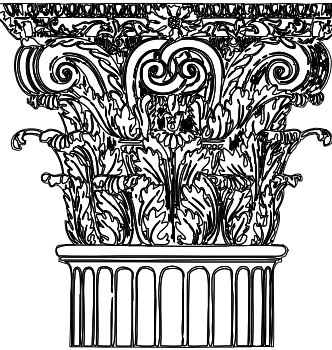
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CONDRA Y



DESIGN GROUP

ARCHITECTURE
& INTERIOR DESIGN

3708 UPLAND AVE.
LUBBOCK, TX 79407
806.748.6190
condray.com



TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM



Nieman Engineering, LLC

5502 58th St, Suite 400 Lubbock, Texas 79414
T: 806-589-3340 TBPE Firm Registration No: F- 14148

UNIVERSITY MEDICAL CENTER
TTUHSC DOCK EXPANSION

CDG PROJ NO. 22421
DATE: 09/05/2025

GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED ON STRUCTURAL DRAWINGS
IN CASE OF CONFLICT BETWEEN GSN, DETAILS AND
PLANS, THE GREATER REQUIREMENTS GOVERN.

GENERAL

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE, INCLUDING AMENDMENTS, EXCEPT WHERE APPLICABLE CODES OR THE CONTRACT DOCUMENTS ARE MORE RESTRICTIVE.
- THE SPECIFICATIONS AND REQUIREMENTS INDICATED ON THIS SHEET ARE INTENDED AS A BASIC SUMMARY OF THE MATERIAL, CONSTRUCTION AND INSPECTION REQUIREMENTS FOR THE PROJECT. ADDITIONAL, ARE GIVEN IN THE PROJECT SPECIFICATIONS. IN THE EVENT OF CONFLICT BETWEEN THE REQUIREMENTS INDICATED ON THIS SHEET AND THOSE IN THE PROJECT SPECIFICATIONS, THE MORE STRINGENT WILL GOVERN.
- FOR LOCATIONS AND DIMENSIONS OF SLEEVES, CURB, OPENINGS AND DEPRESSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS. CONTRACTOR SHALL VERIFY AND COORDINATE REQUIREMENT FOR AND LOCATION OF ABOVE ITEMS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT.
- EMBEDDED ITEMS, SUCH AS PIPE SLEEVES, CONDUITS AND INSERTS SHALL BE IN PLACE BEFORE CONCRETE IS POURED. SEE ARCHITECTURAL, CIVIL, MECHANICAL DRAWINGS FOR ITEMS REQUIRING SLEEVES AND EMBEDMENTS IN CONCRETE WHICH ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS.
- ALL STRUCTURAL RELATED SHOP DRAWINGS SHALL BE SUBMITTED, REVIEWED & APPROVED BY THE ENGINEER OF RECORD PRIOR TO ERECTION/CONSTRUCTION.
- STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. STRUCTURAL DIMENSIONS RELATED TO OR CONTROLLED BY EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS, INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE ARE CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION SHORING TO PROTECT AND SUPPORT FOUNDATION UNDER EXISTING STRUCTURES.
- THE STRUCTURES ARE DESIGNED FOR STABILITY IN THE FINAL CONDITION ONLY. PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY DURING CONSTRUCTION.
- THE GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.

LOADING CRITERIA

- SUPERIMPOSED DEAD LOAD**
A. ROOF.....NOT APPLICABLE
- LIVE LOADS**
A. ROOF.....NOT APPLICABLE
- LATERAL LOADS**
A. **WIND LOADS**
• BASIC WIND SPEED:115 MPH
• RISK CATEGORY:IV
• EXPOSURE:B
B. **SEISMIC LOAD**.....NOT APPLICABLE
- SNOW LOAD**.....NOT APPLICABLE

CAST-IN-PLACE CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 318
- PROVIDE CONCRETE (WITH TYPE II CEMENT) HAVING THE FOLLOWING GENERAL CHARACTERISTICS:

CLASS	28-DAY STRENGTH (PSI)	SLUMP RANGE (IN)	MAX AGGREGATE SIZE (IN)	W/C RATIO	USAGE
A	4,000	3-5	1"	0.45 MAX	ALL FOOTINGS & INTERIOR SLAB ON GRADE

NOTE: THE READY MIX-CONCRETE SHOULD ARRIVE AT THE TARGET SLUMP AND THE CONTRACTOR SHOULD NOT BE ALLOWED TO ADD WATER TO THE MIXTURE.

- MINIMUM STRENGTH FOR REMOVAL OF FORMS AND SHORING SHALL BE 75% OF SPECIFIED STRENGTH AT 28 DAYS.
- EXCEPT AS OTHERWISE REQUIRED, ALL EXPOSED CONCRETE CORNERS AND EDGES SHALL HAVE 3/4" CHAMFERS.
- NO ADMIXTURES SHALL BE USED WITHOUT APPROVAL. NO AIR ENTRAINMENT SHALL BE ALLOWED IN FLAT SLABS. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. CONCRETE SHALL NOT BE IN CONTACT WITH ALUMINUM.
- FLY ASH (POZZOLAN) IF PERMITTED SHALL NOT EXCEED 15% REPLACEMENT OF TOTAL CEMENT CONTENT USING A 1:1 REPLACEMENT FACTOR

REINFORCING STEEL

- LATEST ACI CODE AND DETAILING MANUAL APPLY. ALL REINFORCING BARS DEFORMED UNLESS NOTED OTHERWISE.
- ALL REINFORCING SHALL BE ASTM A-615 GRADE 60
- CLEAR CONCRETE COVER TO REINFORCING ARE AS FOLLOWS:
- CAST-IN-PLACE CONCRETE (NON-PRESTRESSED):
A. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH.....3"
B. EXPOSED TO EARTH OR WEATHER:
• #6 AND LARGER.....2"
• #5 AND SMALLER.....1 1/2"
C. SLAB ON GRADE.....2" BELOW TOP OF SLAB
- SLAB REINFORCING SHALL BE LAPPED A MINIMUM OF 16".
- LAP REINFORCING BARS IN CONTINUOUS FOOTINGS 30 BAR DIAMETERS OR 24" MINIMUM. ALL HORIZONTAL REINFORCING IN CONTINUOUS FOOTINGS AND WALLS SHALL BE CONTINUOUS AROUND CORNERS OR HAVE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS AND LAP A MINIMUM OF 30 BAR DIAMETERS OR 24" MINIMUM.
- WHERE BARS ARE SHOWN SPliced, THEY MAY RUN CONTINUOUS AT CONTRACTOR'S OPTION.

MASONRY

- BLOCK UNITS: GRADE N-1, RUNNING BOND. PRISM STRENGTH = 1500 PSI. MORTAR TYPES, 1800 PSI. GROUT 2000 PSI. ALL CONSTRUCTION BELOW GRADE OR IN CONTACT WITH SOIL SHALL USE TYPE I-H CEMENT FOR MASONRY UNITS, GROUT AND MORTAR. OTHER CONDITIONS MAY BE TYPE I CEMENT. NO POZZOLAN WILL BE PERMITTED IN MORTAR.
- MECHANICALLY VIBRATE GROUT IN VERTICAL CELLS IMMEDIATELY AFTER POURING AND AGAIN ABOUT 5 MINUTES LATER. MAXIMUM GROUT LIFT WITHOUT CLEANOUTS 5'-0". STAY EACH END OF EACH VERTICAL REBAR USING SINGLE WIRE AND LOOP TYPE TIES. MAXIMUM VERTICAL SPACING OF TIES 8'-0".
- SEE FOUNDATION SHEET S2 FOR EXPANSION OR CONTROL JOINTS. LOCATE AT 25 FEET MAXIMUM O.C., BUT NOT LESS THAN 2'-0" FROM A BEARING PLATE OR FROM A JAMB OF AN OPENING WIDER THAN 4'-0".
- MASONRY WALLS TO BE PARTIALLY GROUTED, GROUT REQUIRED: IN CELLS WITH REINFORCING, BOND BEAMS, LINTELS, AROUND EMBEDS AND OTHER LOCATIONS SPECIFICALLY CALLED FOR ON PLANS.
- 8" WALL VERTICAL REINFORCING: LOCATE REINFORCING IN CENTER OF GROUT, AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL AS FOLLOWS:
A. (1) #5 AT ALL CORNERS, INTERSECTIONS, WALL ENDS, JAMBS, UNDER LINTELS, AND EACH SIDE OF EXPANSION OR CONTROL JOINTS.
B. AS INDICATED IN THE DRAWINGS.
- HORIZONTAL REINFORCING: (2) #5 BARS AT TOP OF WALLS.
- WALLS NOTED ON PLANS AS "SOLID GROUTED" SHALL HAVE #4 HORIZONTAL REINFORCING AT 40" MAXIMUM (LADDER TYPE JOINT REINFORCEMENT NOT REQUIRED). PROVIDE (1) #6 BOND BEAMS AT FLOOR, ROOF AND TOP OF WALLS AND PARAPETS.
- PROVIDE 1" #5 IN BED JOINT IMMEDIATELY BELOW OPENINGS IN BEARING WALLS, EXTENDING 24" BEYOND EACH JAMB, FOR ALL OPENINGS EXCEEDING 2'-0" IN SIZE.
- WEDGE AND SLEEVE TYPE ANCHORS SHALL NOT BE PERMITTED IN MASONRY CONSTRUCTION WITHOUT PRODUCT ICC REPORT AND PREAPPROVAL.
- LINTELS: OPEN END BLOCKS SHALL BE USED AT ALL SOLID GROUTED LINTEL SECTIONS. FOR REINFORCEMENT AND ADDITIONAL INFORMATION, SEE LINTEL SCHEDULE DETAIL.
- MASONRY REINFORCING SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

STRUCTURAL STEEL

- FOR ALL STRUCTURAL STEEL FABRICATION AND CONSTRUCTION LATEST AISC HANDBOOKS AND CODES SHALL APPLY. ALL STEEL FABRICATION IS REQUIRED TO BE COMPLETED BY AN APPROVED STEEL FABRICATOR RECOGNIZED BY THE BUILDING DEPARTMENT.
- PREFERRED SPECIFICATIONS PER AISC:
STEEL
WIDE FLANGE MEMBERS ASTM A992 - GRADE 50
C, MC CHANNEL MEMBERS ASTM A992 - GRADE 50
STEEL PIPE ASTM A53 - GRADE 50
STEEL TUBE ASTM A500 - GRADE C - 50 KSI
OTHER STEEL SHAPES ASTM A572 - GRADE 50
STEEL PLATE ASTM A36 - 36 KSI
- ANCHOR BOLTS, ASTM F1554 GRADE 36 UNO; HIGH STRENGTH BOLTS, A-325-X OR A-325-SC PER SCHEDULES. MINIMUM EMBEDMENT OF ALL BOLTS IN GROUT OR CONCRETE SHALL BE 8" INCLUDING BOLT HEAD OR 5" WITH A STD HOOK. WELDED ANCHORS AND SHEAR CONNECTORS SHALL BE ICC APPROVED.
- UNLESS OTHERWISE NOTED MINIMUM CONNECTION SHALL BE: (2) 3/4" DIAMETER BOLTS OR 3/16" FILLET WELD 4" LONG, USING 1/4" CONNECTION MATERIAL AND DETAILED TO MINIMIZE BENDING IN THE CONNECTION.

WELDING

- ALL CONSTRUCTION AND TESTING PER AMERICAN WELDING SOCIETY CODES AND RECOMMENDATIONS. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR. WELDING RODS TO BE LOW HYDROGEN TYPE, E70 FOR STRUCTURAL STEEL AND E60 FOR METAL DECK AND LIGHT GAGE STEEL STUDS.
- ALL BUTT WELDED SPLICES IN MATERIAL THICKER THAN 5/16" SHALL BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY, TO CERTIFY CONNECTION AS MEETING OR EXCEEDING STRENGTH OF MATERIALS SPLICED.
- ALL WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-STEEL" AWS D1.1, CURRENT EDITION.
- ALL WELDING OF LIGHT GAGE STEEL STUDS AND STEEL DECK SHALL CONFORM TO THE "STRUCTURAL WELDING CODES-SHEET STEEL" AWS D1.3, CURRENT EDITION.
- WELDS INDICATED MAY BE MADE IN SHOP OR FIELD WITH APPROVAL.

STRUCTURAL OBSERVATIONS

- JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENTS OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITHIN THE DESIGN INTENT. SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUCTED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITY UNDER THE CONSTRUCTION CONTRACT. SPECIFICALLY BUT WITHOUT LIMITATIONS, OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ANSWER RESPONSIBILITY FOR THE MEANS AND METHODS OF CONSTRUCTION, NOR FOR SAFETY ON THE JOB SITE.
- NOTIFY ENGINEER 48 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED. NOTIFY THE ENGINEER FOR THE FOLLOWING ITEMS:
2.1 BEFORE PLACEMENT OF CONCRETE FOR FOUNDATIONS AND SLAB.
2.2 AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF ROOFING MATERIAL.

SHOP DRAWINGS & SUBMITTALS

- SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER FOR EACH STRUCTURAL BUILDING MATERIAL AS INDICATED IN THE STRUCTURAL GENERAL NOTES AND THE CONTRACT SPECIFICATIONS. SEE THE CONTRACT SPECIFICATION FOR SUBMITTAL PROCEDURE AND ADDITIONAL INFORMATION.
- SHOP DRAWINGS SHALL USE DRAFTING LINE WORK AND LETTERING THAT IS CLEARLY LEGIBLE. SHOP DRAWINGS SHALL NOT CONTAIN REPRODUCTIONS OF THE CONTRACT DRAWINGS PLANS OR DETAILS.
- SHOP DRAWINGS SHALL SHOW CLEAR AND COMPLETE INFORMATION FOR THE FABRICATION (DETAIL SHEETS AND/OR MATERIAL LIST) AND INSTALLATION.
- ALLOW A MINIMUM OF (2) WEEKS FOR REVIEW OF EACH SET OF SHOP DRAWINGS.
- THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS SUBMITTED BY THE SUBCONTRACTOR AND COORDINATE SHOP DRAWINGS WITH ALL OTHER TRADES.
- THE CONTRACTOR SHALL ANSWER ALL QUESTIONS OR CLARIFICATIONS BY THE SUBCONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. ANY QUESTIONS THAT THE CONTRACTOR CANNOT ANSWER WITH THE INFORMATION ON THE DRAWINGS SHALL CLEARLY BE MARKED FOR THE ENGINEER FOR REVIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS, SEE NOTE 3 & 6 UNDER GENERAL NOTES.
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIALS INDICATED ON THE SHOP DRAWINGS.

STRUCTURAL MODIFICATIONS AND REPAIR

- REFER TO AS-BUILT DRAWINGS AND SHOP DRAWINGS (IF AVAILABLE) OF THE EXISTING STRUCTURE FOR CONSTRUCTION WORK ASSOCIATED WITH THE EXISTING STRUCTURES. AS-BUILT CONDITIONS AND DIMENSIONS MUST BE FIELD VERIFIED BY CONTRACTOR.
- ALL DEMOLITION, REMOVAL AND CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED WITH CONSIDERATION FOR EXISTING FACILITIES STRUCTURES, EQUIPMENTS, ETC.
- UNLESS OTHERWISE NOTED ON PLANS, CUTTING EXISTING REINFORCING DUE TO DOWELS DRILLING, PIPING, CONDUITS OR OTHER PENETRATION THROUGH EXISTING CONCRETE STRUCTURE IS PROHIBITED. CONTRACTOR SHALL IDENTIFY EXISTING REINFORCING LOCATIONS BY NON-DESTRUCTIVE APPROACHES PRIOR TO DRILLING HOLES OR CUTTING OPENINGS.
- EXISTING CONCRETE SURFACES THAT WILL COME IN CONTACT WITH NEW CONCRETE SHALL BE ROUGHENED TO 1/4" AMPLITUDE TO WITHIN 1" OF EDGE. BONDING AGENT SHALL BE APPLIED TO THE EXISTING CONCRETE SURFACES PRIOR TO THE NEW CONCRETE PLACEMENT.
- ALL EXISTING CONDITIONS COULD NOT BE OBSERVED OR ACCOUNTED FOR. CONTRACTOR AND OWNER SHOULD ANTICIPATE SOME CHANGES WILL BE NECESSARY TO ACCOMMODATE UNFORSEEN EXISTING CONDITIONS. CONTINGENCIES SHOULD BE IN PLACE FOR THESE POSSIBILITIES.

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE IBC 2021 (INTERNATIONAL BUILDING CODE 2021) BY A SPECIAL INSPECTOR HIRED BY THE OWNER TO PERFORM THE SPECIAL INSPECTIONS LISTED BELOW. THE SPECIAL INSPECTOR SHALL BE QUALIFIED BY AN APPROVED AGENCY ACCORDING TO THE CITY'S BUILDING OFFICIAL TO PERFORM SPECIAL INSPECTIONS FOR WHICH THEY WILL BE UNDERTAKING. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ARCHITECT. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF LEFT UNCORRECTED TO THE STRUCTURAL ENGINEER, ARCHITECT AND BUILDING DEPARTMENT.
- WHEN INDICATED WITH A "X", THE FOLLOWING SHALL BE INSPECTED.

ITEM	REQ'D	REMARKS
CONCRETE - CONCRETE PLACEMENT	X	PERIODIC
CONCRETE - REBAR PLACEMENT	X	INSPECT FINAL PLACEMENT
CONCRETE - EXPANSION ANCHORS	X	PERIODIC
CONCRETE - EPOXY	X	PERIODIC
MASONRY - VERIFICATION OF PROPORTIONS OF SITE PREPARED MORTAR	X	PERIODIC
MASONRY - VERIFICATION OF MORTAR JOINT	X	PERIODIC
MASONRY - VERIFICATION OF LOCATION OF REBAR AND CONNECTORS	X	PERIODIC
MASONRY - SIZE AND LOCATION OF STRUCTURAL ELEMENTS	X	PERIODIC
MASONRY - SIZE AND LOCATION OF ANCHORS	X	PERIODIC
MASONRY - SIZE GRADE AND TYPE OF REBAR	X	PERIODIC
MASONRY - REBAR WELDING	X	PERIODIC
MASONRY - PROTECTION OF MASONRY DURING HOT (TEMPERATURE ABOVE 90 DEG.) AND COLD WEATHER (TEMPERATURE BELOW 40 DEG.)	X	PERIODIC
MASONRY - VERIFICATION OF CLEAN GROUT SPACE PRIOR TO GROUT PLACEMENT	X	PERIODIC
MASONRY - REBAR PLACEMENT	X	PERIODIC
MASONRY - GROUT PLACEMENT	X	PERIODIC
MASONRY - COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	X	PERIODIC
STRUCTURAL STEEL, SHOP WELDING - FILLET WELDS	X	PERIODIC
PENETRATION WELDS	X	PERIODIC
STRUCTURAL STEEL, FIELD WELDING - PARTIAL OR FULL	X	CONTINUOUS

REVISIONS:

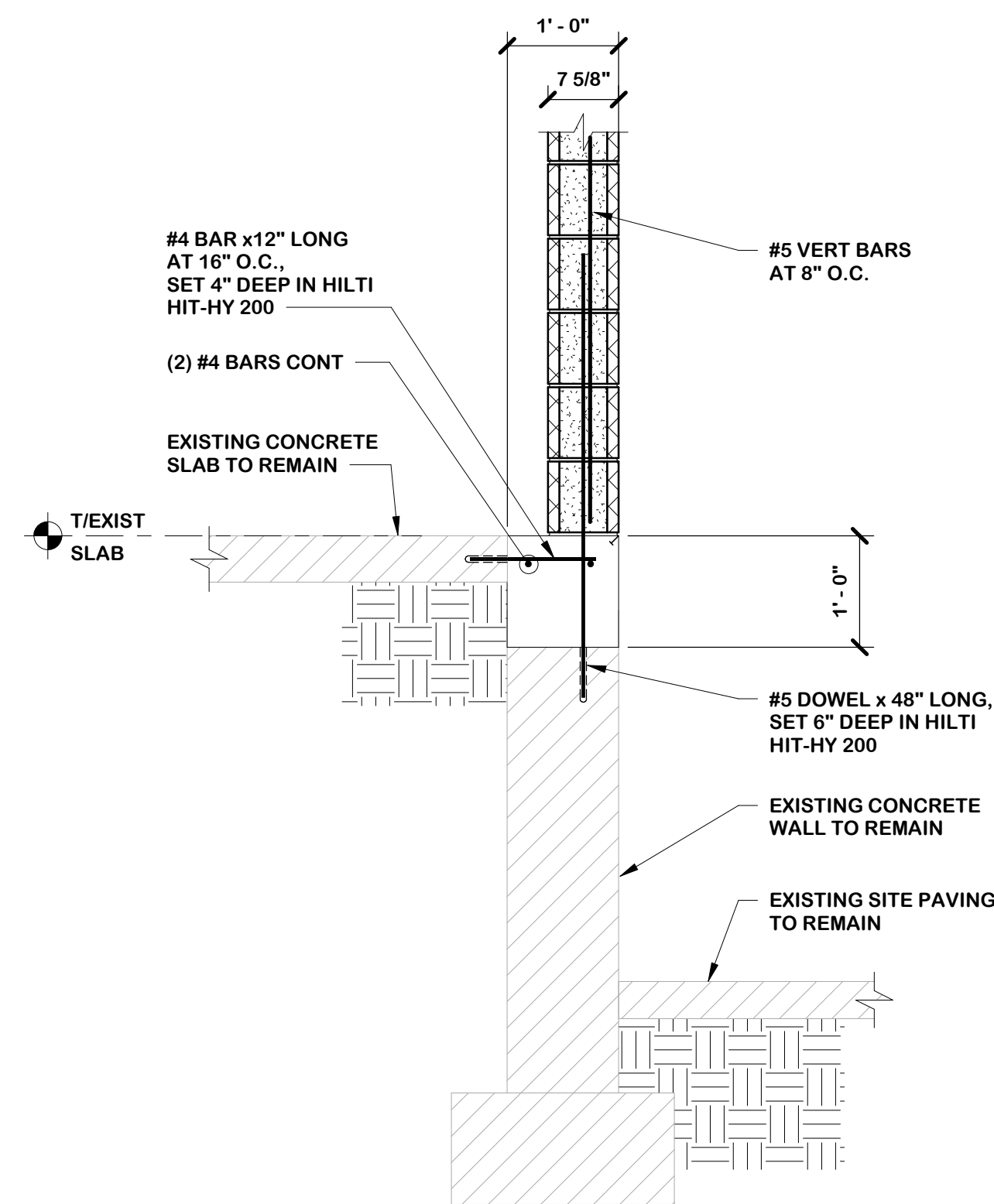
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PROJECT NO. 22421
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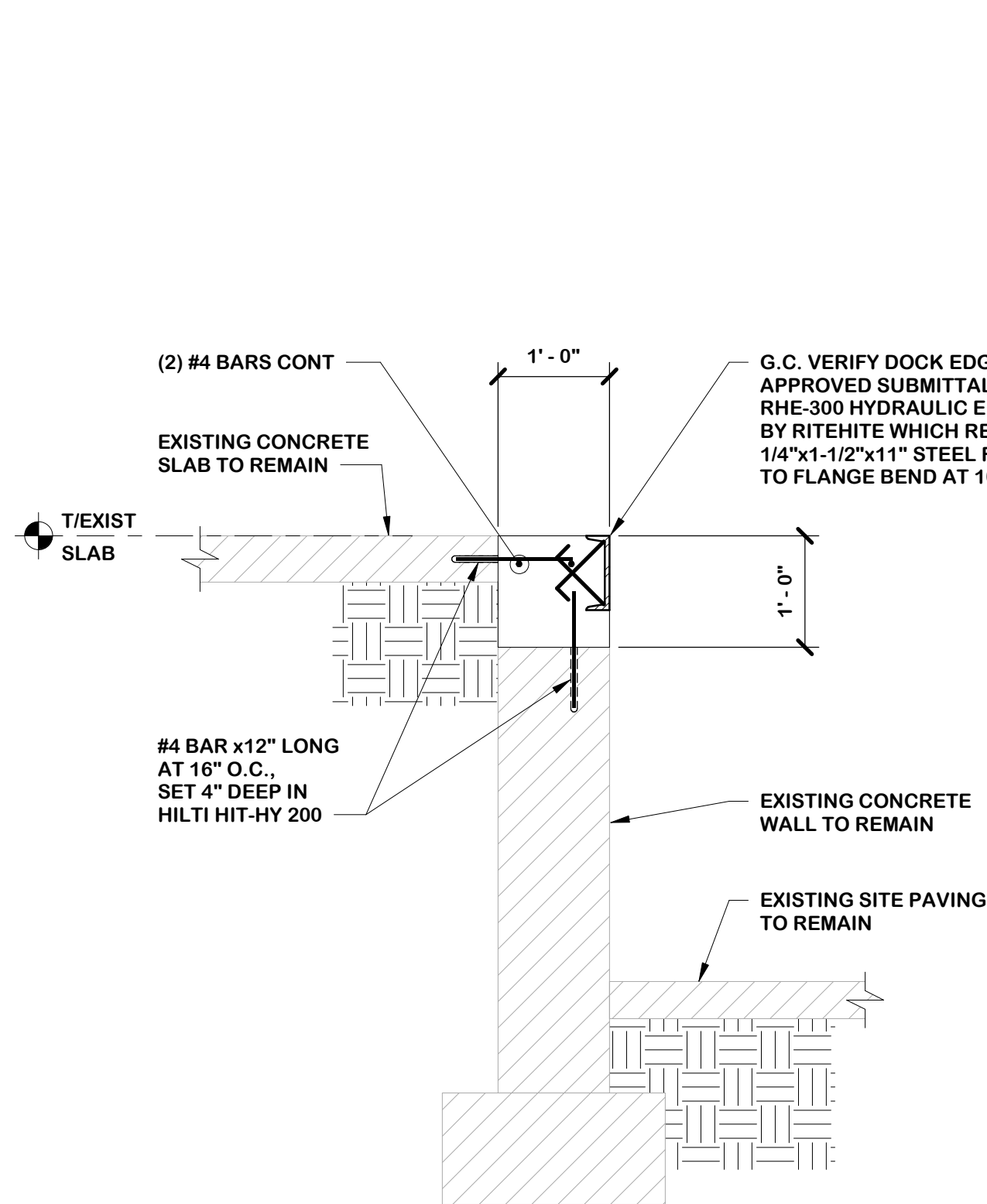
SHEET NO.

S1

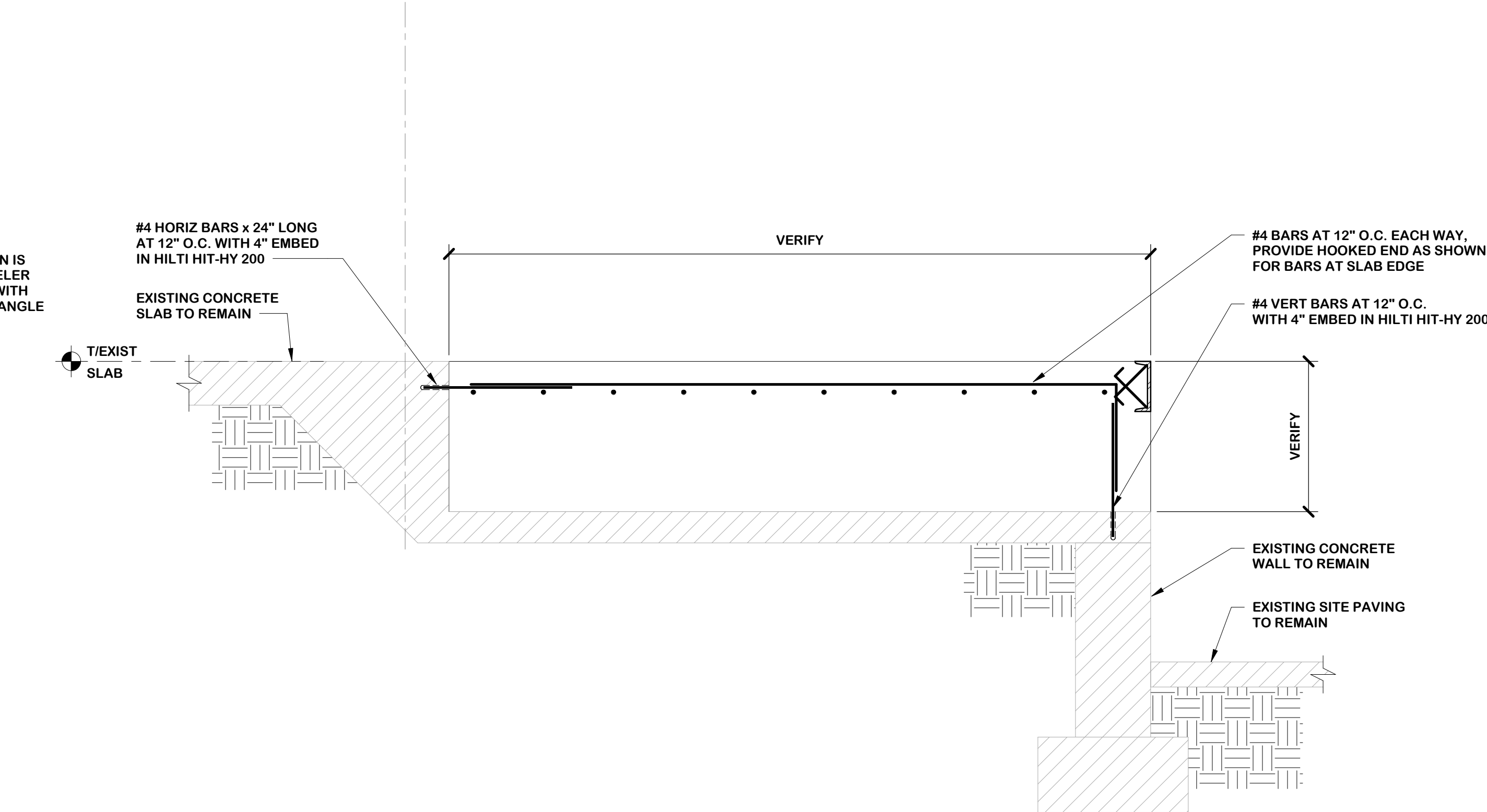
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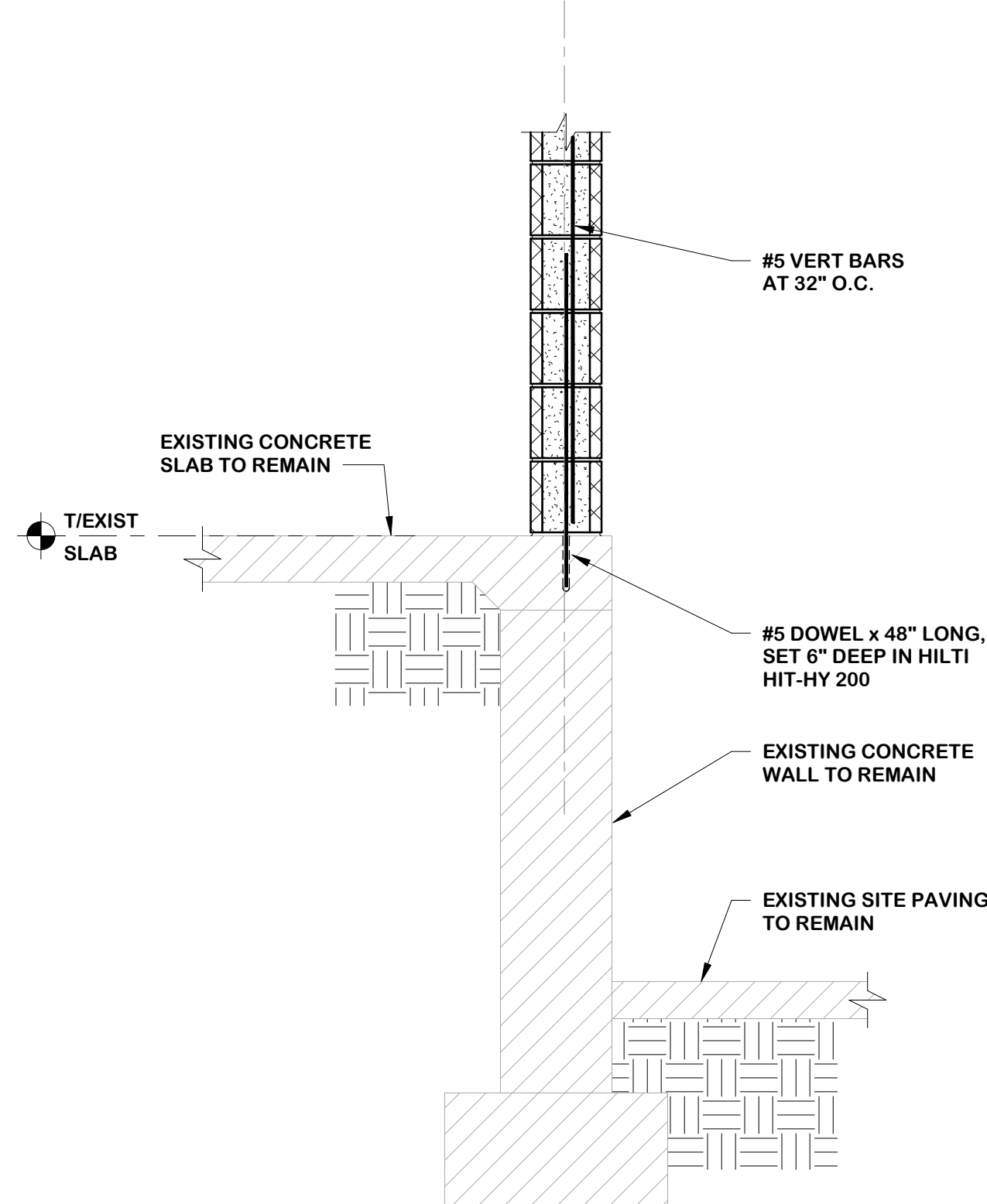
1 NEW CMU AT EXISTING DOCK WALL
3/4" = 1'-0"



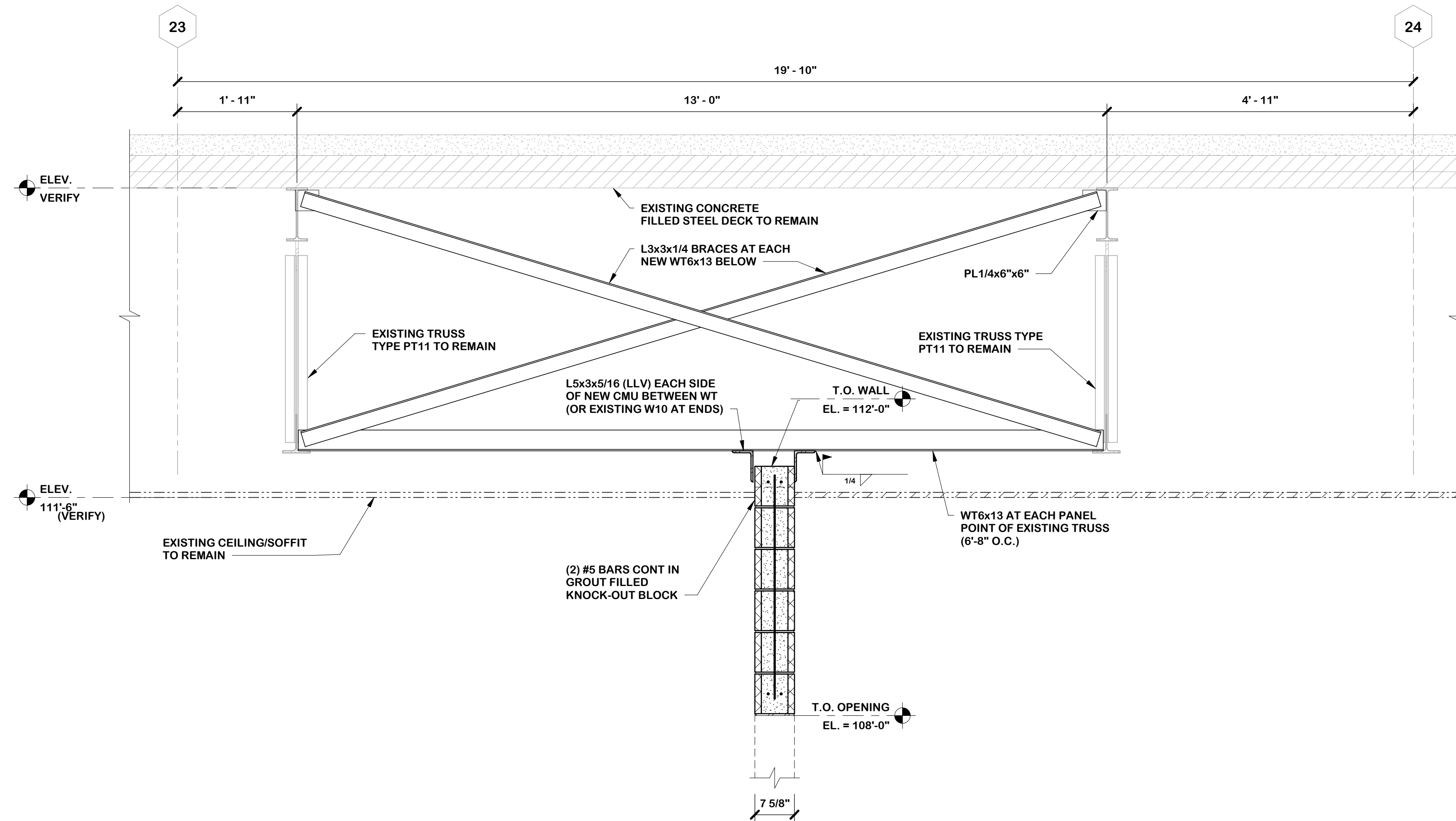
2 NEW SLAB EDGE AT EXISTING DOCK WALL
3/4" = 1'-0"



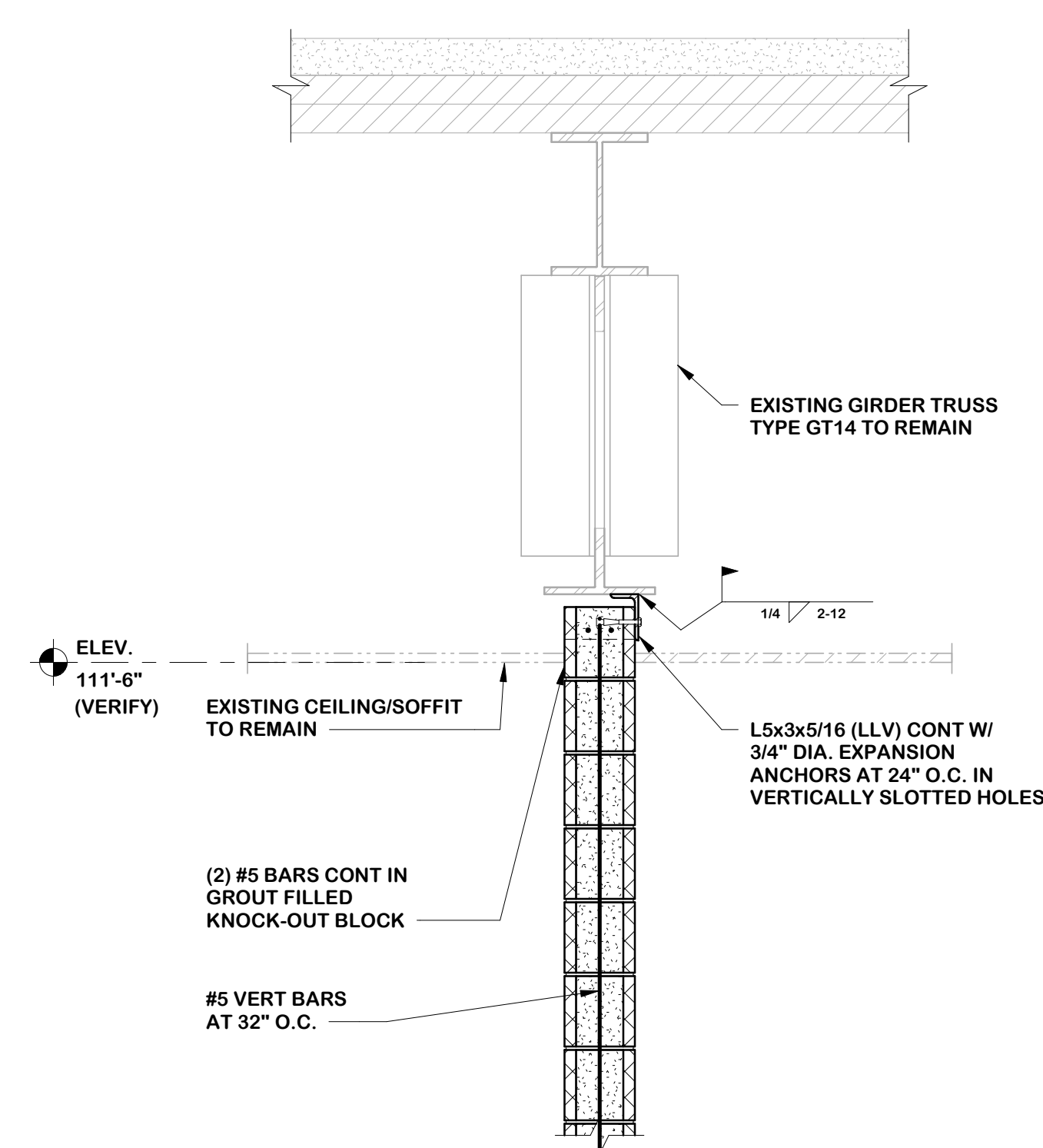
3 NEW SLAB EDGE AT EXISTING DOCK WALL
3/4" = 1'-0"



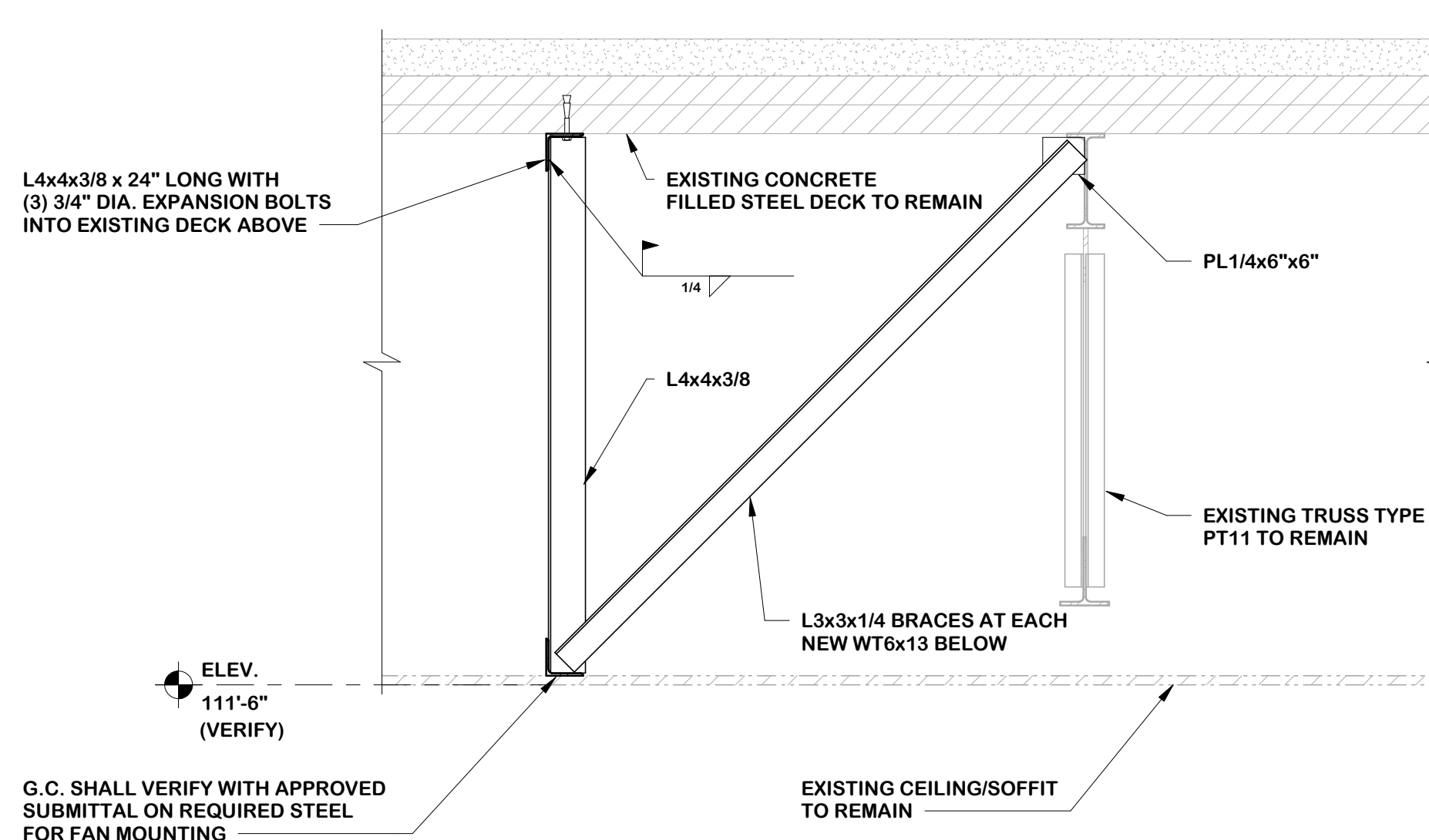
4 NEW CMU WALL AT EXISTING DOCK WALL
3/4" = 1'-0"



5 FRAMING SECTION
3/4" = 1'-0"



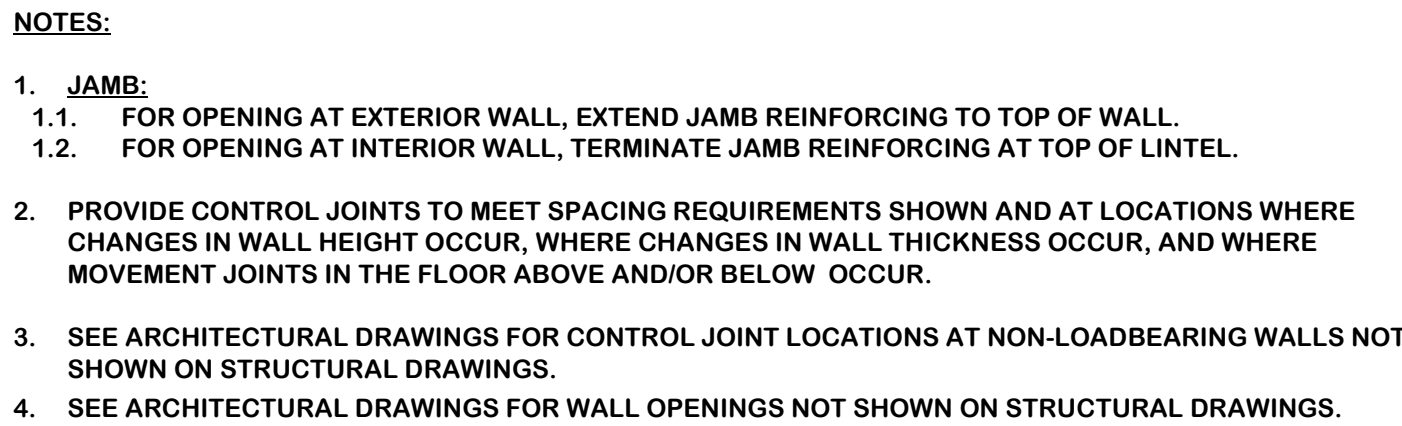
6 FRAMING SECTION
3/4" = 1'-0"



7 STRUCTURE AT FAN MOUNTING LOCATIONS
3/4" = 1'-0"

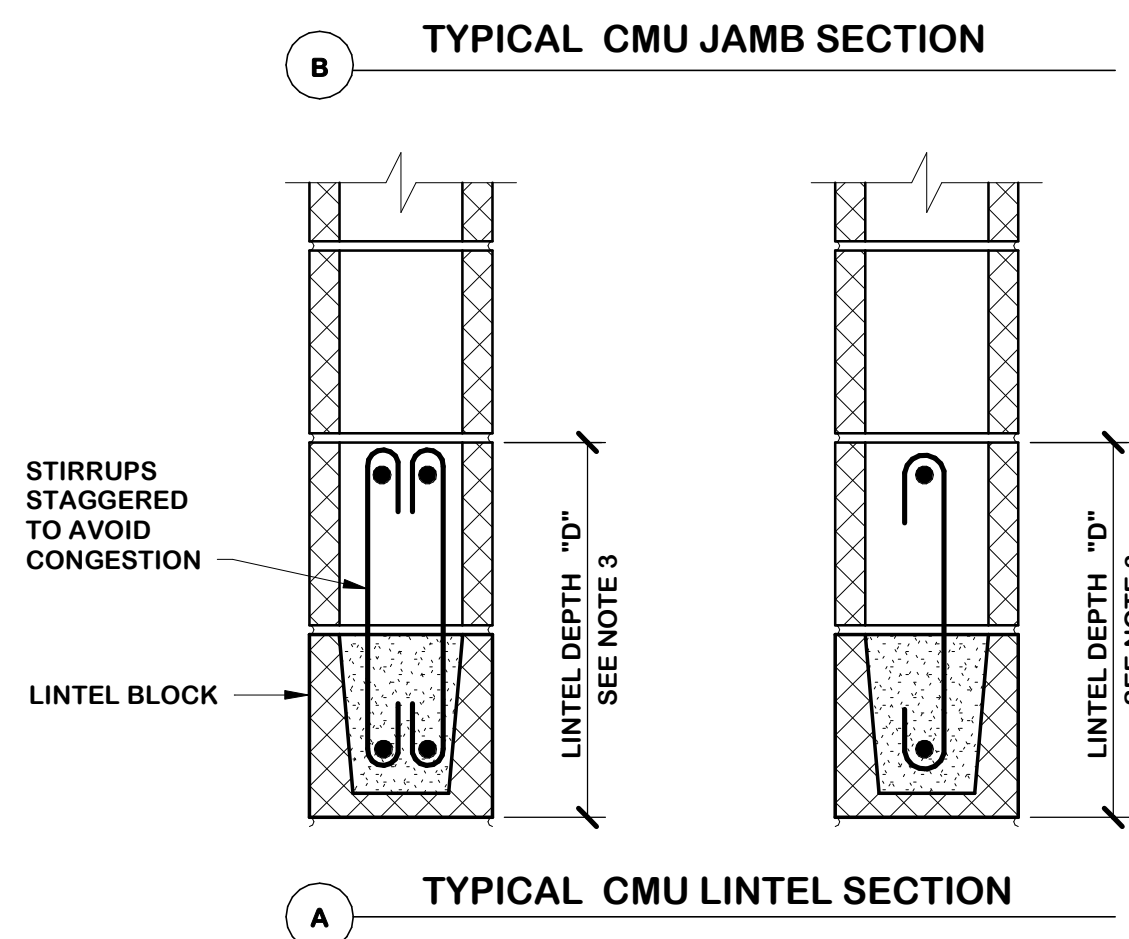


1. LAP-SPLICE LENGTHS ARE CALCULATED PER IBC AND ACI 530.
2. TABULATED VALUES ARE BASED ON GRADE 60 UNCOATED REINFORCING BARS.
3. FOR GRADE 40 REINFORCING BARS MULTIPLY THE TABULATED VALUES BY 0.67 (15" MIN. LAP).
4. MECHANICAL SPLICE REQUIRED FOR BARS GREATER THAN #9.



3 TYPICAL CMU WALL REINFORCING SCHEMATIC

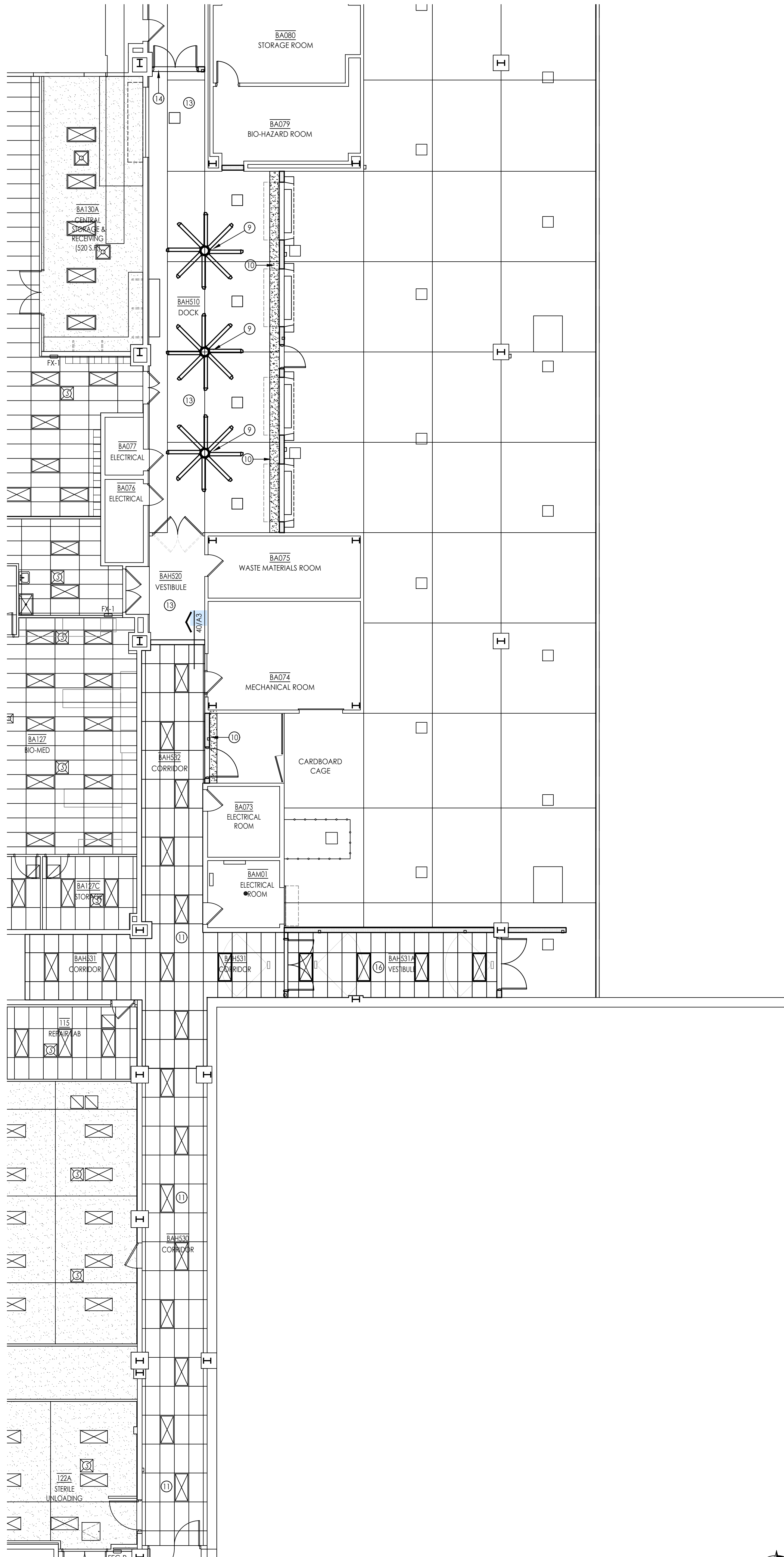
- NOTES:**
1. **JAMB:**
 - 1.1. FOR OPENING AT EXTERIOR WALL, EXTEND JAMB REINFORCING TO TOP OF WALL.
 - 1.2. FOR OPENING AT INTERIOR WALL, TERMINATE JAMB REINFORCING AT TOP OF LINTEL.
 2. **LINTEL:**
 - 2.1. LINTELS SHALL BE CONSTRUCTED WITH U-BLOCKS AT THE BOTTOM AND DEPRESSED WEB BLOCKS ABOVE AND SHALL BE FULLY GROUTED.
 - 2.2. REINFORCING IN LINTELS SHALL EXTEND 48 BAR DIAMETERS OR 2'-0" MINIMUM EACH SIDE OF THE OPENINGS.
 - 2.3. SHORE LINTEL UNTIL GROUT REACHES DESIGN STRENGTH.
 3. **SILL:**
 - 3.1. OPENING WIDTH < OR EQUAL TO 6'-0" AND SILL HEIGHT < OR EQUAL TO 3'-0": SILL REINFORCING NOT REQUIRED.
 - 3.2. OPENING WIDTH > 6'-0" OR SILL HEIGHT > 3'-0": PROVIDE REINFORCED LINTEL ACCORDING TO SCHEDULE.
 4. MASONRY WALL CONTROL JOINTS SHALL NOT OCCUR WITHIN OR BETWEEN REINFORCED JAMB CELLS OR AT LINTEL.



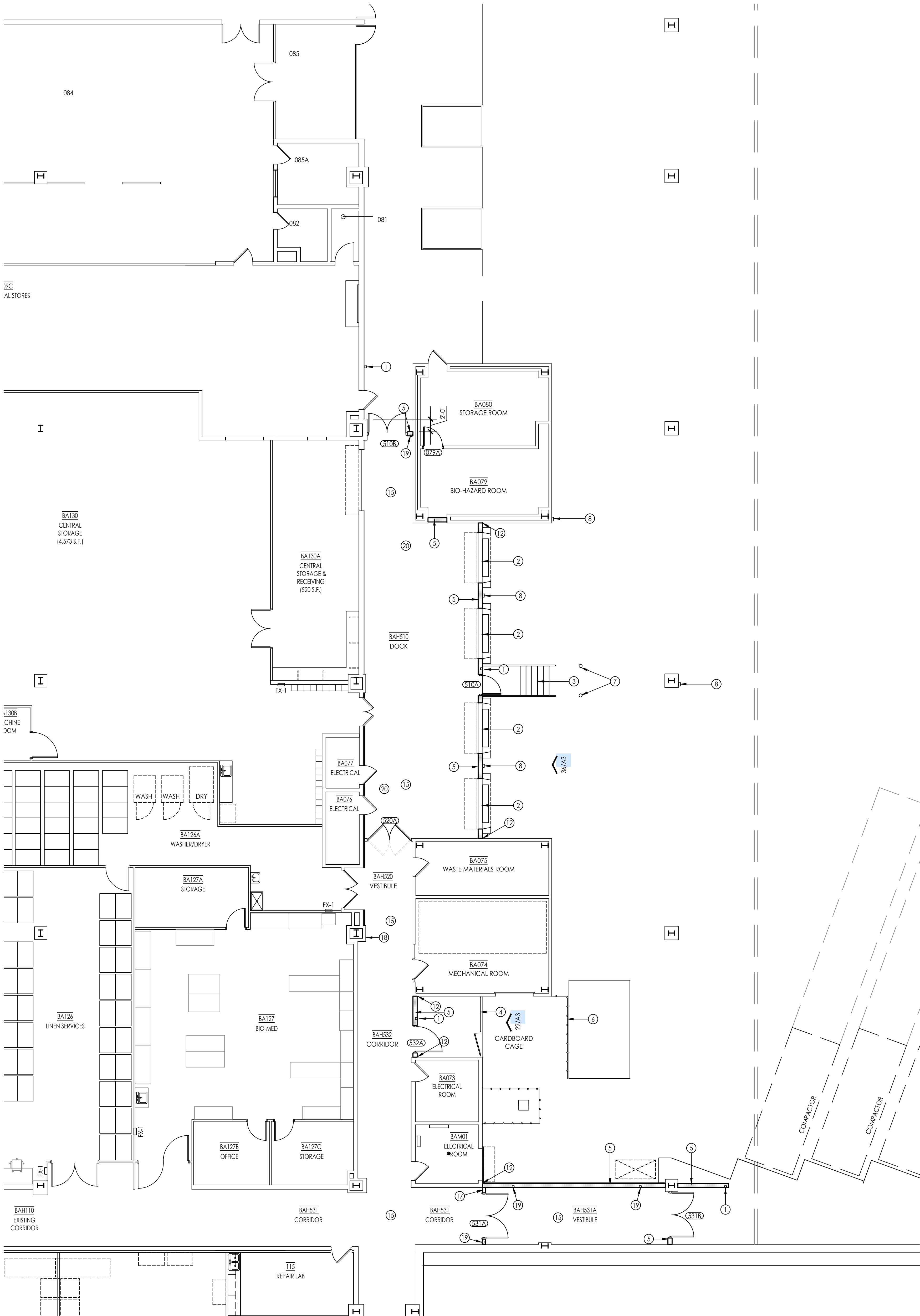
4 CMU WALL REINFORCING SCHEDULE
1 1/2" = 1'-0"



1	OF	3
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40/A2 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



25/A2 ANNOTATED FLOOR PLAN
SCALE: 1/8" = 1'-0"

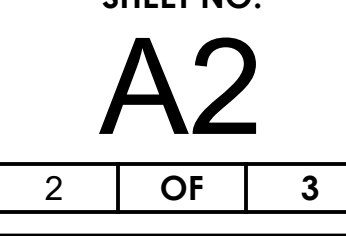
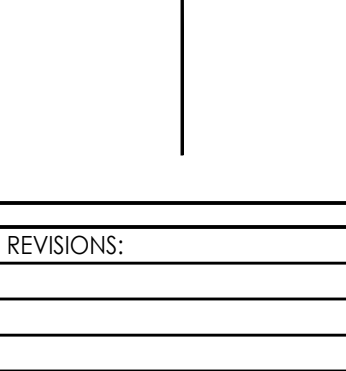
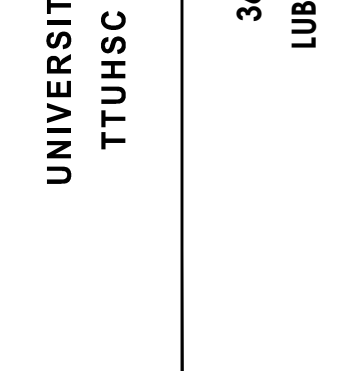
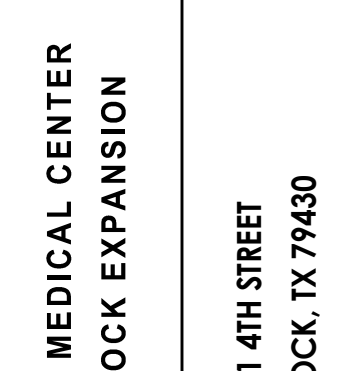
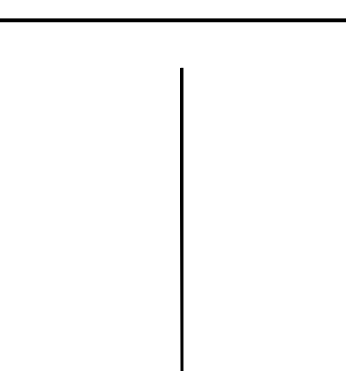
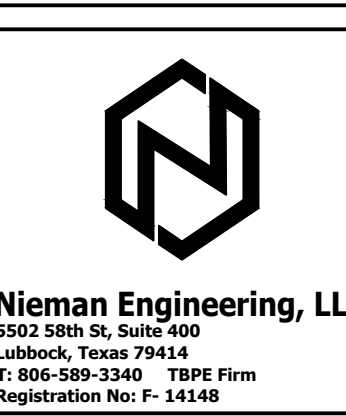
GENERAL NOTES

- ON ALL WALLS SCHEDULED TO REMAIN, PATCH ANY EXISTING HOLES, CRACKS, OR OTHERWISE DAMAGED AREAS AND RE-TEXTURE AND PAINT AS SCHEDULED.
- THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTANT DRAWINGS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONTRACTOR SHALL RECEIVE INSTRUCTION PRIOR TO INSTALLATION OR PERFORMANCE OF SAID WORK. ANY WORK PERFORMED IN CONFLICT WITH THE DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- REFER TO PROJECT MANUAL FOR ROOM FINISH SCHEDULE.
- ALL NEW WALLS TO RECEIVE FULL BATT INSULATION FROM FLOOR TO THE FULL HEIGHT OF THE WALL, INCLUDING ABOVE CEILING.
- ALL WALLS ARE TO BE PARTITION TYPE "P1" UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PATCH BACK ANY DISTURBED DIRECT-APPLIED FIREPROOFING IN THE AREA REQUIRED FOR NEW CONSTRUCTION. MATCH REQUIRED APPLIED THICKNESS TO MAINTAIN PROPER RATINGS OF STRUCTURAL COMPONENTS.

KEYED NOTES

DESIGNATED BY:

- TAP BADGE ACCESS PANEL, (FLUSH MOUNTED AT NEW WALL LOCATIONS).
- NEW MOTORIZED 8'-0" X 8'-0" OVERHEAD COILING DOOR AS SPECIFIED. NEW DOCK SEALS (EQUAL TO RITEHITE PERFORMER SERIES), BUMPERS, AND HYDRAULIC DOCK LEVELER (EQUAL TO RITEHITE RHE-300 EDGE-O-DOCK).
- PREFABRICATED ALUMINUM STAIR AND PLATFORM WITH GUARDRAILS AND HANDRAILS, 40" X 72" LANDING PLATFORM WITH 48" CLEAR STAIR WIDTH, (EQUAL TO UPSIDE INNOVATIONS APEX SYSTEM).
- GALVANIZED STEEL GATE AND GUARDRAIL, REFER TO ELEVATION.
- 8" CMU WALL, FINISHED AS SCHEDULED ON INTERIOR. PAINT ALL EXTERIOR SURFACES WITH TWO COATS OF ROMABOIC TEXTURED MASONRY PAINT. SUBMIT COLOR TO MATCH EXISTING TO ARCHITECT FOR APPROVAL.
- NEW 7' GALVANIZED 2" X 9 GA. CHAIN LINK FENCE, SET SCHEDULE 40 FENCE POSTS AT 3'-0" O.C. MAX WITH FOUR BOLT SURFACE MOUNTED SLEEVE MOUNTS WITH 4" EMBEDMENT WEDGE OR EPOXY ANCHORS.
- NEW 6" STEEL BOLT DOWN BOLLARDS AS SCHEDULED.
- NEW DOCK COMMUNICATIONS LIGHTS EQUAL TO RITEHITE TRAFFIC STYLE LIGHT COMMUNICATION SYSTEM WITH THREE-POSITION TOGGLE SWITCH INSIDE CONTROLS. PROVIDE WITH APPLICABLE INTERIOR AND EXTERIOR INSTRUCTIONS SIGNS.
- OWNER PURCHASED, CONTRACTOR INSTALLED - 10' BIG ASS FAN. REFER TO ELECTRICAL AND STRUCTURAL.
- PATCH BACK STUCCO SOFFIT CEILING, FINISH AS SCHEDULED.
- IN EXISTING CORRIDORS, (WEST TO PATCH BACK WHERE WALL AND DOORS WERE REMOVED AND SOUTH TO EXISTING DOUBLE EGRESS DOORS) INSTALL NEW VINYL COATED CEILING TILE AS SCHEDULED. RESUPPORT EXISTING CEILING GRID TO ENSURE SUPPORT AT 4' O.C.E.W. AND REPLACE ANY DAMAGED COMPONENTS.
- PATCH ADJACENT CMU AND CONCRETE WALLS AT EXTERIOR OF BUILDING. PAINT WALLS BACK TO NEAREST OUTSIDE CORNER. INSTALL 3/4" EXPANSION JOINT WITH BACKER ROD AND SEALANT ON BOTH SIDES OF NEW CMU WALL INRILL. PRIME AND PAINT NEW CMU WALL AS SCHEDULED AND/OR TO MATCH EXISTING AT EXTERIOR.
- CLEAN ALL EXISTING STUCCO SOFFIT INSIDE THE NEW INTERIOR SPACE AND PREPARE FOR NEW PAINTED FINISH. SMOOTH OUT ANY ROUGH OR PATCHED IN AREAS FOR A UNIFORM, FLAT, TEXTURED SURFACE. USE APPROPRIATE PRIMER AND PAINT ALL SURFACES INCLUDING ACCESS DOORS/PANELS.
- CUT AND REWORK CEILING DUCT ACCESS PANELS ON EITHER SIDE OF NEW WALL. PROVIDE NEW ATTACHMENTS ON EITHER SIDE. IF PANELS ARE NOT ABLE TO BE MODIFIED AS-IS, PROVIDE NEW PANELS TO MATCH EXISTING AND SIZED APPROPRIATELY FOR THE SPACE.
- USE A MECHANICALLY ABRASIVE PROCESS TO PREPARE THE SLAB FOR NEW EPOXY FLOORING. ALL SURFACES SHOULD BE THOROUGHLY CLEANED, SHOT BLASTED, AND LEVELED TO PROVIDE UNIFORM SURFACE FOR NEW EPOXY FLOORING SYSTEM. REFER TO ID SHEETS FOR LIMITS OF NEW FLOORING. TIE INTO EXISTING FLOORING SYSTEMS CLEANLY WHERE APPROPRIATE.
- NEW CEILING GRID AND VINYL COATED GYPSUM CEILING TILES AS SCHEDULED. INSTALL TO MATCH EXISTING CORRIDOR HEIGHT OR HIGHER IF ABLE.
- 6" METAL STUD FRAMED WALL TO STRUCTURE ABOVE WITH 5/8" FIBER-FACED GYPSUM BOARD ON EACH SIDE. FINISH AS SCHEDULED.
- FLUSH OUT WALL WITH BACKER PANEL FOR SMOOTH FINISH TRANSITION TO WALL TILE.
- FLUSH MOUNTED WAVE-TO-OPEN CONTROLLER FOR DOOR POWER OPERATORS. INSTALL CONDUIT AND BACKBOX INSIDE CMU WALL WHERE APPLICABLE.
- CLEAN ALL INTERIOR CONCRETE AND TILE WALLS AND PREP AND REPAINT ALL EXISTING STEEL DOORS AND FRAMES.





E81 EPOXY BROADCAST

3601 4TH STREET
LUBBOCK, TX 79430

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

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

SCALE: $3/8" = 1'-0"$

SCALE: $3/8" = 1'-0"$

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

GENERAL NOTES

1. REFER TO THE PROJECT MANUAL AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION. SHOULD THERE BE A DISCREPANCY BETWEEN THESE DOCUMENTS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE CONTRACTOR SHALL RECEIVE INSTRUCTION PRIOR TO INSTALLATION OR PERFORMANCE OF SAID WORK. WORK PERFORMED IN CONFLICT WITH THE DRAWINGS OR SCHEDULE SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
2. ALL WORK IS TO BE PERFORMED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
3. FIELD VERIFY ALL DIMENSIONS NEW OR EXISTING PRIOR TO CONSTRUCTION AND ADJUST WHERE REQUIRED TO PROVIDE A SQUARE AND COMPLETE FINISH. VERIFY ALL DIMENSIONS TO THE FACE OF ANY DISCREPANCIES WITH EXISTING OR NEW CONDITIONS.
4. REPAIR EXISTING WALLS AND FLOORS AS SCHEDULED TO REMAIN AND REFINISH AS INDICATED.
5. PROVIDE SMOOTH TRANSITION WHERE NEW CONSTRUCTION INTERSECTS WITH EXISTING CONDITIONS. IN ALL AREAS ADJACENT TO NEW CONSTRUCTION, REPAIR/REFINISH AND INSTALL NEW WALL BASE, PAINT E. ETC., WHERE NECESSARY TO AVOID PATCHES OR INCONSISTENT FINISHES.
6. INCLUDE ALL TRIM, INSIDE/OUTSIDE CORNER, CONNECTOR, AND END CAP PIECES FOR COMPLETE INSTALLATION OF FINISHES.
7. A PRE-INSTALLATION MEETING WITH THE ARCHITECT IS REQUIRED PRIOR TO THE INSTALLATION OF THE VINYL FLOORING, AND WALL PROTECTIVE PRODUCTS.
8. WHERE DISSIMILAR WALL PROTECTION MATERIALS JOIN, SEAL WITH CLEAR CAULKING.

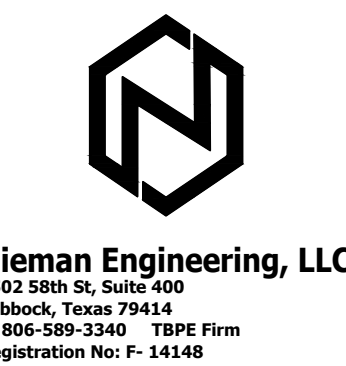
KEYED NOTES

DESIGNATED BY:

- ① NO WORK IN THIS AREA.
- ② REPAIR/PATCH WALL FINISHES DISTURBED BY CONSTRUCTION IN THIS AREA AS SCHEDULED.
- ③ PROTECT EXISTING TILE DURING CONSTRUCTION AT THIS LOCATION. CLEAN AND RESTORE EXISTING WALL TILE AND GROUT.
- ④ THOROUGHLY CLEAN EXISTING WALLS.
- ⑤ PAINT CMU WALL P1 AT THIS LOCATION AS SCHEDULED.
- ⑥ PAINT PATCHED-IN AREA P1 AT THIS LOCATION AS SCHEDULED.

WALL FINISH LEGEND

- CG1
CG1 CORNER GUARD AS SCHEDULED
- FRP1 FIBER REINFORCED PANEL + WG1 WALL GUARD
+ WP1 WALL PROTECTION + WG1 WALL GUARD
- FRP1 FIBER REINFORCED PANEL

UNIVERSITY MEDICAL CENTER
TTUHSC DOCK EXPANSION

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LUBBOCK, TX 79430

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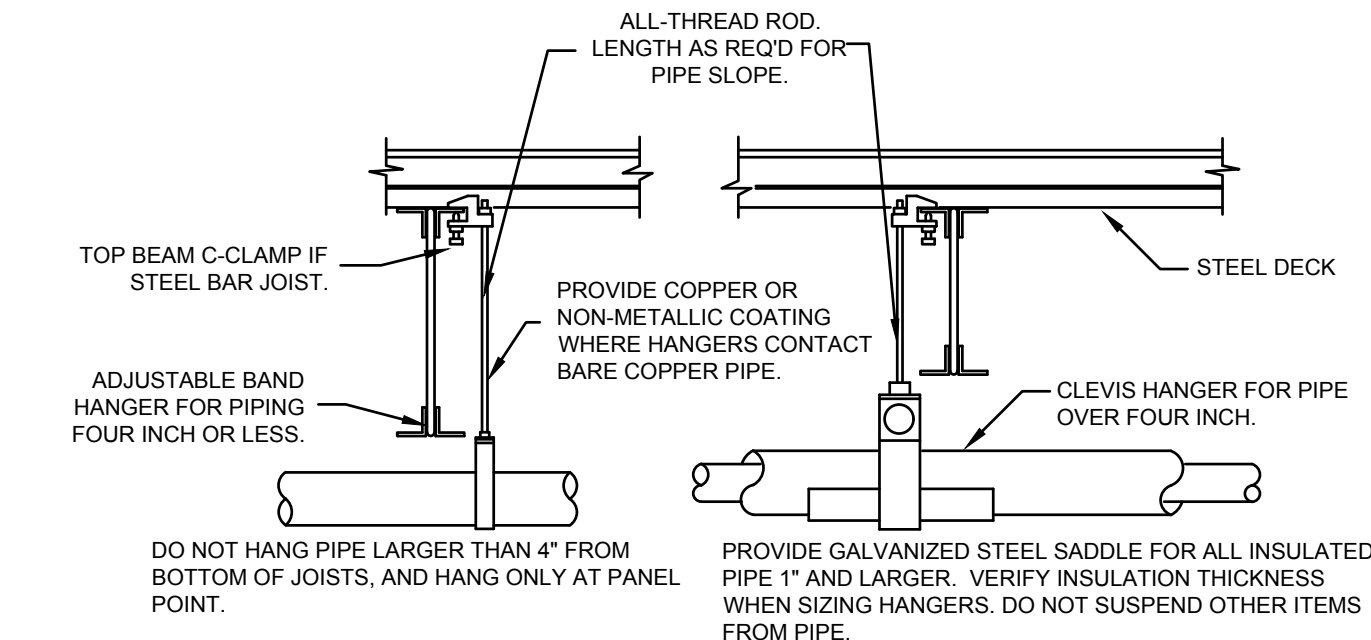
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PROJECT NO.	22421
DATE:	09/05/2025

SHEET NO.
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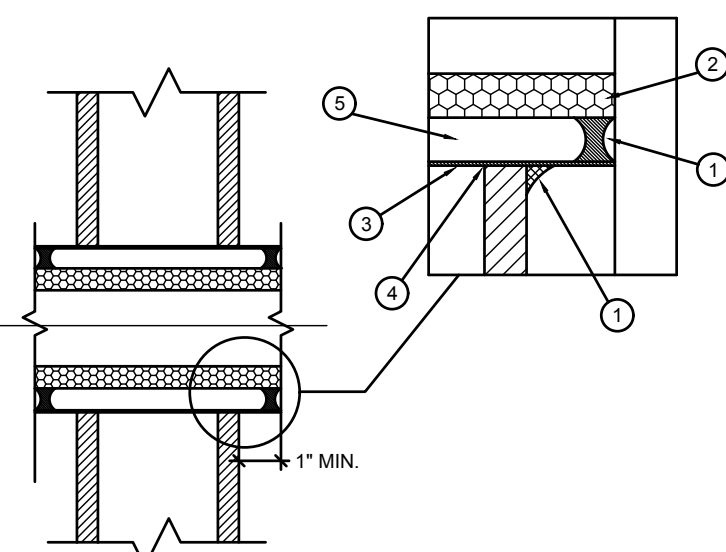
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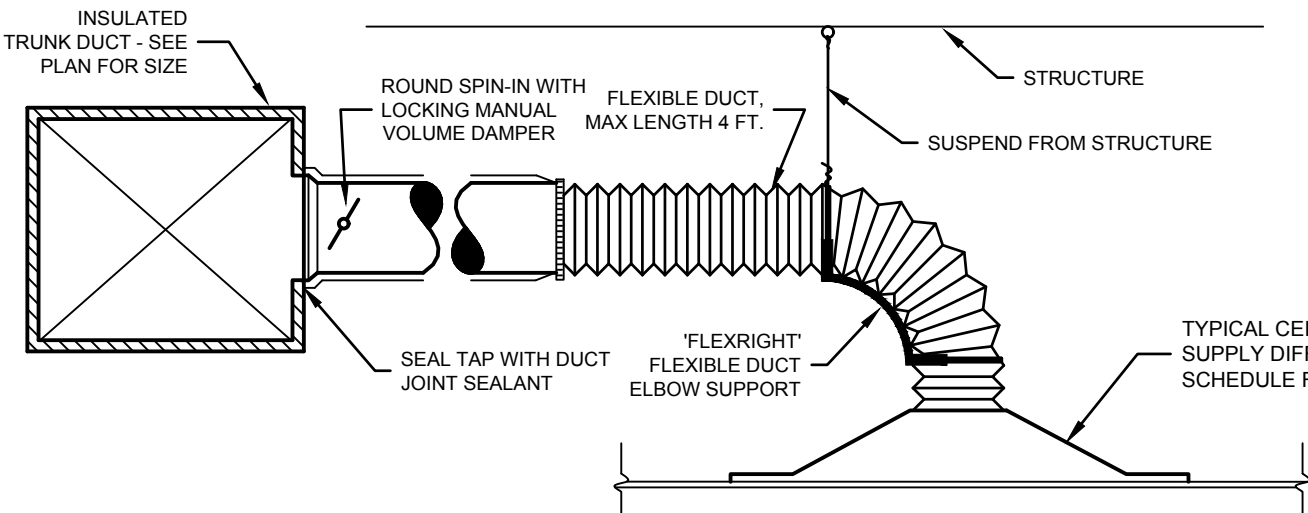
COMMENTS:
1. PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. SLOPE ALL WATER PIPING SLIGHTLY TOWARD DRAINABLE LOCATIONS. HANGER SPACING FOR PIPE SIZE: COPPER: 2'-0\"/>

PIPE HANGER DETAIL
NO SCALE



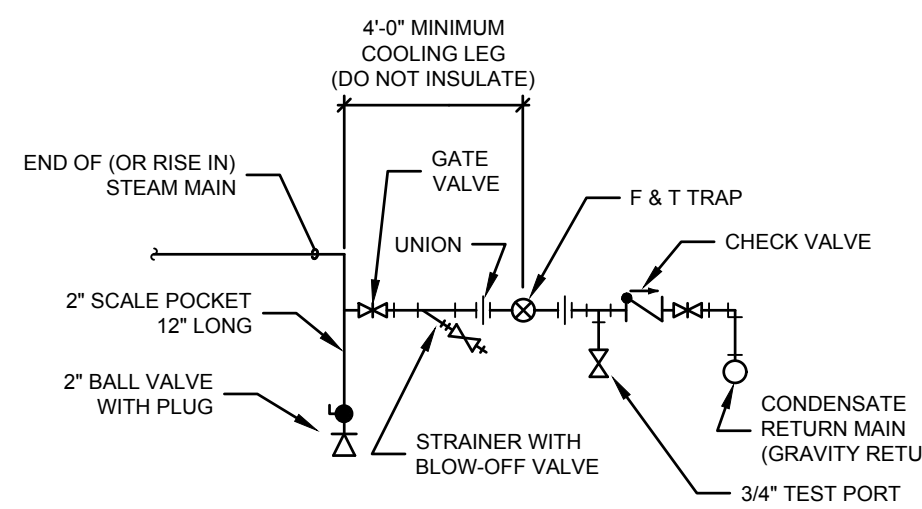
PIPE SLEEVE THRU WALL DETAIL GENERAL NOTES

- CAULK CONTINUOUS WITH 3M 2000 FIRE PROOF 1/2" BEAD (MADE BY 3M COMPANY)
- CONTINUOUS INSULATION THROUGH WALL PENETRATION FOR PIPING THAT REQUIRES INSULATION.
- 1/8 GA. PIPE MINIMUM FOR SLEEVES
- HOLES WILL BE CORED (DRY OR WET NO HAMMER DRILL PENETRATION) PENETRATIONS WILL FIT snug to sleeve.
- MAX. 1/4" ANNULAR SPACE BETWEEN INSULATION AND PIPE FOR NON INSULATED LINES FOR EXAMPLE (AIR, GAS, VAC, ELEC)

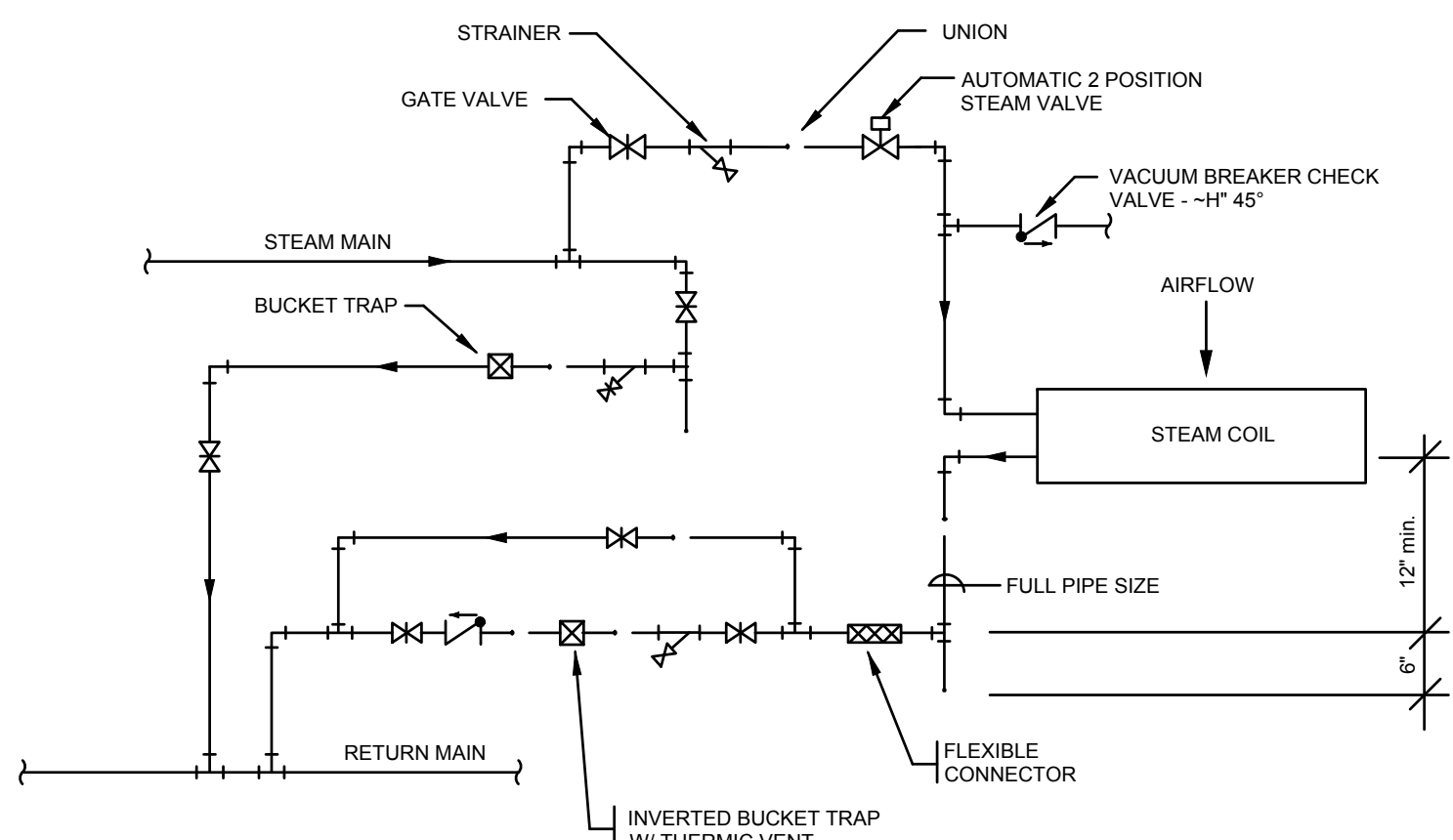


SUPPLY AIR DIFFUSER MOUNTING DETAIL
NO SCALE

NOTE: CONNECTIONS OF FLEX DUCT INNER CORE SHALL BE MADE WITH S.S. WORM DRIVE CLAMPS. OUTER INSULATION SHALL BE FITTED OVER CORE CONNECTION AND SECURED WITH S.S. CLAMP.



TYPICAL DRIP TRAP (30# LOW PRESSURE)
ASSEMBLY (EOM)
NO SCALE



STEAM COIL PIPING DIAGRAM
NO SCALE

MECHANICAL GENERAL NOTES

- THESE DRAWINGS HAVE BEEN PRODUCED WITH LIMITED INFORMATION ABOUT THE EXISTING BUILDING AND THE EXISTING MECHANICAL SYSTEMS. THE EXISTING INFORMATION MAY BE LIMITED TO SITE SURVEYS PERFORMED BY THE ENGINEER AND/OR EXISTING AS-BUILT DRAWINGS. THE EXISTING INFORMATION SHOWN ON THE DRAWINGS ARE DETAIL THE BEST AVAILABLE KNOWLEDGE OF THE ENGINEER AT THE TIME OF THE PROJECT, AND MAY NOT REFLECT THE ACTUAL EXISTING CONDITIONS ON SITE. THE CONTRACTOR SHALL ADJUST THE NEW INSTALLATION AS NEEDED TO ADAPT TO THE ACTUAL CONDITIONS, AND SHALL NOTIFY THE ARCHITECT OF ANY MAJOR DISCREPANCIES.
- VERIFY THE EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, DIFFUSERS, AND GRILLES AT JOBSITE. CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- FOR ALL ITEMS SHOWN TO BE REMOVED, REMOVE ALL ASSOCIATED ITEMS INCLUDING HANGERS, SUPPORTS, DUCT RUNOUTS, PIPE RUNOUTS, ELECTRICAL, CONTROL WIRING, ETC. THE OVERALL INTENT OF THE DEMOLITION SHALL BE TO CLEAR UP THE EXISTING AREA AS MUCH AS POSSIBLE OF OLD ITEMS THAT ARE NO LONGER BEING UTILIZED FOR THE NEW SCOPE OF WORK.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER. ANY SHUT DOWNS OF EXISTING SYSTEMS THAT ARE REQUIRED SHALL BE COORDINATE WITH THE BUILDING OWNER MINIMUM 7 DAYS IN ADVANCE, AND SHALL BE DONE TO MINIMIZE THE DISTURBANCE TO THE BUILDING OCCUPANTS.
- VERIFY EXACT SCHEDULE AND PHASING OF PROJECT WITH THE ARCHITECT.
- THE BUILDING OWNER SHALL RETAIN THE FULL RIGHTS OF SALVAGE FOR ALL MECHANICAL EQUIPMENT INDICATED TO BE REMOVED. THE CONTRACTOR SHALL COORDINATE WITH OWNER ON ALL SALVAGED ITEMS. THE CONTRACTOR SHALL DELIVER THESE PIECES OF EQUIPMENT TO A LOCATION AS DIRECTED BY THE OWNER. FOR ALL ITEMS THAT THE OWNER DOES NOT SALVAGE, THE CONTRACTOR SHALL DISPOSE OF OFF SITE AS REQUIRED.
- SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE MECHANICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS. INSTALL PERMANENT CAPS WHERE DUCTWORK AND PIPING IS REMOVED AND THE EXISTING TAPS ARE NOT USED FOR THE NEW INSTALLATION.
- INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
- REMOVAL, RECOVERY, RECYCLING, AND DISPOSAL OF REMOVED ANY EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT EPA GUIDELINES.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS IN ADDITION TO THE RELATED PLUMBING, ELECTRICAL, STRUCTURAL, AND CIVIL ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY AN APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.
- THE CONTRACTOR SHALL PROVIDED ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS NOT INDICATED BUT WHICH CAN BE REASONABLY INFERRRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.
- THE DRAWING SHEETS SHALL BE PRINTED USING THE CORRECT PAPER SIZE IN ORDER FOR ANY SCALED ITEMS TO BE ACCURATE. HOWEVER, THE CONTRACTOR SHALL NOT RELY ON THE SCALED DRAWINGS FOR EXACT MEASUREMENTS. THE LOCATION, ARRANGEMENT AND EXTENT OF EQUIPMENT, PIPING, DUCTWORK, AND ITEMS RELATED TO THE INSTALLATION OF THE MECHANICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMATIC IN NATURE.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR, AND CIVIL ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SHOULD THE CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD, THE ARCHITECT, SHALL HAVE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF THE INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING ALL FIELD MODIFICATIONS THAT DEVIATE FROM THE CONSTRUCTION SET OF PLANS AT THE COMPLETION OF THE PROJECT.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL MECHANICAL UNITS WITH NEW AIR FILTERS THROUGHOUT THE CONSTRUCTION DURATION TO PROTECT THE EQUIPMENT FROM DEBRIS. PROVIDE A NEW SET OF FILTERS UPON TESTING AND BALANCING, AND ANOTHER NEW SET OF FILTERS FOR OWNERS FIRST FILTER CHANGE AFTER OCCUPANCY.
- DURING CONSTRUCTION, ALL OPEN ENDED DUCTS AND PIPES SHALL BE COVERED TO PREVENT DEBRIS FROM GETTING INSIDE. THE CONTRACTOR SHALL ALSO PROVIDE TEMPORARY HEATING INSIDE THE BUILDING IF REQUIRED TO AVOID FREEZING OF WATER PIPING SYSTEMS.
- HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.
- ORDER OF PRECEDENCE SHALL BE OBSERVED IN LAYING OUT THE PIPE, DUCTWORK, MATERIAL, AND CONDUIT IN ORDER TO FIT THE MATERIAL INTO THE SPACE ABOVE THE CEILING AND IN THE FOLLOWING ORDER SHALL GOVERN:
 - ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC TO AVOID CONFLICTS AT THE SITE.
 - UNES REQUIRING GRADE TO FUNCTION SUCH AS SEWERS, ROOF DRAINS AND CONDENSATE DRAINS.
 - LARGE DUCTS AND PIPES WITH CRITICAL CLEARANCES.
 - FIRE SPRINKLER LINES, CONDUIT, WATER LINES, AND OTHER LINES WHOSE ROUTING IS NOT CRITICAL AND WHOSE FUNCTION WOULD NOT BE IMPAIRED BY PENALS AND OFFSETS.
- ROUTE DUCTS AND PIPES PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE UNLESS OTHERWISE SHOWN ON PLANS. INSTALL ALL DUCTS AND PIPING AS HIGH AS POSSIBLE WITHIN THE AVAILABLE SPACE. MECHANICAL EQUIPMENT, DUCTS, AND PIPES SHALL BE INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE. INSTALL DUCTS AND PIPES TO ALLOW FOR THE REMOVAL OF ALL CEILING TILES. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES AND LIGHT FIXTURES. COORDINATE AS REQUIRED TO AVOID CONFLICTS.
- LOCATE ALL THERMOSTATS, HUMIDISTATS, CONTROLLERS, AND SENSORS AT 48" A.F.F. UNLESS NOTED OTHERWISE. MOUNT AT MINIMUM OF SIX INCHES FROM WALL OR CORNERS. COORDINATE THE MOUNTING LOCATIONS WITH THE ARCHITECT. DUCTS AND PIPES SHALL BE LABEL AT EACH THERMOSTAT INDICATED THE UNIT MARK, MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL ALL THERMOSTATS AND INSTALL ALL THERMOSTAT ELECTRICIAN TO PROVIDE BACK BOX WITH CONDUIT UP TO ACCESSIBLE CEILING AT ALL THERMOSTAT/SENSOR LOCATIONS.
- MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, AND PLUMBING VENTS.
- PROVIDE P-TAP AND CONDENSATE DRAIN LINE AT ALL UNITS. REFER TO DETAILS AND SPECIFICATIONS. CONDENSATE DRAINS SHALL BE ROUTED TO THE NEAREST APPROVED MOP SINK, FLOOR SINK, FLOOR DRAIN, OR OTHER APPROVED RECEPTOR WITH AN INDORECT CONNECTION AS SHOWN ON PLANS. CONDENSATE SHALL NOT BE ALLOWED TO DRAIN ONTO ANY WALKWAY AREA THAT WOULD CAUSE A NUISANCE.
- REFRIGERANT PIPING IS SHOWN FOR DIAGRAMATIC PURPOSES ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING OF PIPING AT JOBSITE. PROVIDE ALL REQUIRED OFFSETS AND ELBOWS AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM. THE CONTRACTOR SHALL OBSERVE THE UNIT MANUFACTURER'S MAXIMUM LINE LENGTH REQUIREMENTS.
- CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING OF DUCTWORK AT JOBSITE WITH ALL FIELD CONDITIONS PRIOR TO DUCT FABRICATION. ROUTE DUCTS AS REQUIRED. PROVIDE OFFSETS AS REQUIRED, AND CHANGE DUCT SIZES IF REQUIRED WHILE MAINTAINING EQUAL FREE AREA IN DUCT. CONTRACTOR SHALL UTILIZE THE STRAIGHTEST DUCT ROUTING PATH POSSIBLE TO MINIMIZE UNNECESSARY PRESSURE DROP WITHIN THE SYSTEM.
- WHEREVER THE MANUAL BALANCING DAMPERS ARE RENDERED INACCESSIBLE BEHIND NON REMOVABLE CEILINGS OR FURRINGS, OR OTHER CONSTRUCTION THAT IS NOT EASILY REMOVABLE TO PERMIT ACCESS TO THE DAMPERS, THE DAMPERS SHALL BE EQUAL TO YOUNG REGULATOR NO. 1200 RIGHT ANGLE WORM GEAR REGULATOR, FLEX SHAFT, AND 30'-FS CONCEALED DAMPER REGULATOR WITH PRIMER COVER PLATE FOR FIELD PAINTING TO MATCH CEILING.
- ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. NO ALLOWANCE HAS BEEN MADE FOR INTERNAL LINER OR EXTERNAL WRAP.
- ALL DUCT AND PIPE PENETRATIONS THROUGH WALLS, CEILINGS, FLOORS, AND ROOFS SHALL BE FULLY SEALED APPROPRIATELY. INSTALL SLEEVES FOR PIPING PENETRATIONS FOR RATED WALLS AND FLOORS. INSTALL CHROME PLATED ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS THAT ARE OPENLY VISIBLE TO BUILDING OCCUPANTS.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS WITH PROPER SUPPORTS OR MOUNTING DEVICES. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES AROUND EQUIPMENT AT A MINIMUM. PROVIDE VIBRATION ISOLATION FOR ALL MOVING PIECES OF EQUIPMENT. DO NOT ROUTE PIPING, DUCTWORK, CONTROL WIRE, ETC. THROUGH THE SERVICE CLEARANCE AREAS. UNITS LOCATED IN ATTICS, MEZZANINES, OR DECKED AREAS SHALL HAVE A 3' WIDE BY 7' TALL CLEAR WALKWAY TO EACH UNIT. COORDINATE WITH ALL TRADES IN THE FIELD. ALL MECHANICAL EQUIPMENT SHALL BE LABELLED WITH A PERMANENT 2" TALL LABEL WITH 1" TALL TEXT. BLACK LABEL WITH WHITE TEXT, OR WHITE LABEL WITH BLACK TEXT.
- ANY COST INCURRED AS A RESULT OF VALUE ENGINEERING OR DEVIATIONS FROM THE BASIS OF DESIGN INDICATED IN THE CONTRACT DOCUMENTS (E.G. ELECTRICAL MODIFICATIONS TO ACCOMMODATE ALTERNATE EQUIPMENT SELECTIONS, DESIGN RELATED EXPENSES FOR REQUIRED DRAWING MODIFICATIONS, ETC.) SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NO INCREASE IN CONTRACT COST WILL BE GRANTED UNLESS APPROVED IN WRITING BY THE OWNER. CONTRACT DOCUMENTS ARE DEFINED TO INCLUDE ALL DISCIPLINES AND DIVISIONS OF THE CONTRACT.
- EXPOSED DUCTWORK SHALL HAVE PAINT GRIP FINISH, AND PAINTED AS DIRECTED BY ARCHITECT.
- PIPING SHALL NOT BE ROUTED THROUGH ELECTRICAL OR I.T. ROOMS, OR DIRECTLY ABOVE ELECTRICAL PANELS OR ELECTRICAL EQUIPMENT.
- ANY PORTIONS OF DUCTWORK VISIBLE THROUGH AIR DISTRIBUTION DEVICES IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
- ALL RETURN AND EXHAUST GRILLES THAT ARE LOUVERED BLADE TYPE SHALL BE INSTALLED WITH THE BLADES ORIENTED IN THE ANGLE THAT ALLOWS FOR THE LEAST AMOUNT OF VISIBILITY THROUGH THE GRILLE BY THE BUILDING OCCUPANTS.
- PROVIDE ACCESS PANELS IN NON-ACCESSIBLE CEILINGS TO ALLOW ADEQUATE ROOM FOR MAINTENANCE OF MECHANICAL EQUIPMENT AND FIRE DAMPERS. PROVIDE LABEL ON ACCESS DOOR INDICATING THE EQUIPMENT.
- KITCHEN GREASE EXHAUST DUCTS: GREASE DUCTS SHALL BE DOUBLE WALL WITH ZERO CLEARANCE TO COMBUSTIBLES. REFER TO SPECIFICATIONS. ALL HORIZONTAL GREASE DUCTS SHALL SLOPE BACK TO THE HOOD AT 1/4" PER FOOT. ALL ELBOWS SHALL BE 1.5 DIAMETER SMOOTH RADIUS SMOOTH ELBOWS. GREASE DUCTS SHALL HAVE ACCESS DOORS IN ALL LOCATIONS REQUIRED BY NFPA 96.

MECHANICAL LEGEND	
GENERAL SYMBOLS	DUCT SYMBOLS
<p>XXX-## MECHANICAL EQUIPMENT MARK (SEE ABBREVIATION LIST AND SCHEDULES)</p> <p>KEYED NOTE</p> <p>CONNECT TO EXISTING</p> <p>REVISION NUMBER</p> <p>1 THERMISTAT</p> <p>2 HUMIDISTAT</p> <p>3 SENSOR</p> <p>4 CONTROLLER</p> <p>5 FAN CONTROLLER</p> <p>6 HEATER CONTROLLER</p> <p>7 CARBON DIOXIDE SENSOR</p> <p>8 ROOM PRESSURE SENSOR</p> <p>9 STATIC PRESSURE SENSOR</p> <p>10 DIFFERENTIAL PRESSURE SENSOR</p> <p>DETAIL REFERENCE</p> <p>M-XXX INDICATES THE DETAIL NUMBER</p> <p>XXX INDICATES THE DRAWING SHEET</p> <p>SECTION REFERENCE</p> <p>M-XXX INDICATES THE SECTION NUMBER</p> <p>XXX INDICATES THE DRAWING SHEET</p> <p>PIPE SYMBOLS</p> <p>ELBOW DOWN</p> <p>ELBOW UP</p> <p>TEE UP</p> <p>TEE DOWN</p> <p>EXISTING LINE (XX + SYSTEM)</p> <p>DEMOKO DASHED LINE (XX + SYSTEM)</p> <p>D CONDENSATE DRAIN LINE</p> <p>S REFRIGERANT SUCTION LINE</p> <p>L REFRIGERANT LIQUID LINE</p> <p>S/L REFRIGERANT SUCTION AND LIQUID LINE (SHOWN SINGLE LINE FOR CLARITY)</p> <p>CWS CHILLED WATER SUPPLY LINE</p> <p>CWR CHILLED WATER RETURN LINE</p> <p>HWS HEATING WATER SUPPLY LINE</p> <p>HWR HEATING WATER RETURN LINE</p> <p># STM STEAM LINE (PSI)</p> <p>SCR STEAM CONDENSATE RETURN LINE</p> <p>BALL VALVE</p> <p>FLOW DIRECTION</p>	<p>DIFUSER/ GRILLE LABEL</p> <p>X# AIR DISTRIBUTION MARK</p> <p>NECK SIZE</p> <p>## AIRFLOW - CFM (IF NO CFM IS LISTED, THEN BALANCING IS NOT REQUIRED FOR THAT DEVICE)</p> <p>ROUND DUCT CONNECTION TO DIFFUSER/ GRILLE</p> <p>DIFUSER/ GRILLE</p> <p>FLEXIBLE DUCT</p> <p>ROUND DUCT RUNOUT</p> <p>SPIN-IN DUCT TAP WITH MBD</p> <p>MAIN DUCT</p> <p>RECTANGULAR DUCT CONNECTION TO DIFFUSER/ GRILLE</p> <p>DIFUSER/ GRILLE</p> <p>ROUND FLEX DUCT (NOT SHOWN) FROM BOTTOM OF DUCT TO DIFFUSER/ GRILLE</p> <p>RECTANGULAR DUCT RUNOUT</p> <p>45° ANGLE TAP (MBD IF SHOWN)</p> <p>MARK DUCT</p> <p>MOTORIZED DAMPER</p> <p>1.5 HOUR FIRE DAMPER (VERTICAL)</p> <p>1.5 HOUR COMBINATION FIRE SMOKE DAMPER (VERTICAL)</p> <p>1.5 HOUR FIRE DAMPER (HORIZONTAL)</p> <p>1.5 HOUR COMBINATION FIRE SMOKE DAMPER (HORIZONTAL)</p> <p>EXISTING DUCTWORK</p> <p>EXISTING DIFUSER/ GRILLE</p> <p>DEMOK DUCTWORK</p> <p>DEMOK DIFUSER/ GRILLE</p> <p>SUPPLY AIRFLOW DIRECTION</p> <p>RETURN, EXHAUST, OR TRANSFER AIRFLOW DIRECTION</p> <p>SUPPLY DIFFUSER WITH PATTERN</p> <p>RETURN OR EXHAUST GRILLE</p> <p>RETURN GRILLE WITH LINED BOOT</p> <p>SUPPLY DUCT - CROSS SECTION</p> <p>EXHAUST DUCT - CROSS SECTION</p> <p>RETURN DUCT - CROSS SECTION</p> <p>RECTANGULAR DUCT (WIDTH" X HEIGHT")</p> <p>ROUND DUCT (DIAMETER)</p> <p>FLAT OVAL DUCT (MAJOR AXIS" X MINOR AXIS")</p> <p>EXTERIOR RECTANGULAR DUCT</p> <p>DOUBLE WALL SPIRAL ROUND DUCT</p> <p>DOUBLE WALL SPIRAL FLAT OVAL DUCT</p> <p>MANUAL BALANCING DAMPER</p> <p>DUCT TRANSITION, 45° ANGLE</p> <p>DUCT TRANSITION, 45° ANGLE RECTANGULAR TO ROUND</p> <p>MITERED ELBOW WITH TURNING VANES</p> <p>MITERED ELBOW WITHOUT TURNING VANES</p> <p>RADIUS ELBOW, 1.5 x DIAMETER RADIUS</p>

MECHANICAL ABBREVIATIONS

AC AIR CONDITIONER	FCU FAN COIL UNIT	NC NOISE CRITERIA
AFF ABOVE FINISHED FLOOR	FCU FURNACE AND COIL UNIT	NEC NATIONAL ELECTRICAL CODE
AHJ AUTHORITY HAVING JURISDICTION	FD FIRE DAMPER	NEMA NATIONAL ELECTRICAL MANUFACTURERS
AHU AIR HANDLING UNIT	FDF FABRIC DUCT DIFFUSER	NFPA NATIONAL FIRE PROTECTION ASSOCIATION
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	FPB FAN POWERED BOX	NTS NOT TO SCALE
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS	FPM FEET PER MINUTE	OA OUTSIDE AIR
B BOILER	FT FEET	OBD OPPOSED BLADE DAMPER
BAS BUILDING AUTOMATION SYSTEM	GPM GALLON PER MINUTE	ODP OUTDOOR HEAT PUMP
BTU BRITISH THERMAL UNIT	GUH GAS-FIRED UNIT HEATER	OU OUTDOOR UNIT
BOD BOTTOM OF DUCT	H HUMIDIFIER	P PUMP
BOP BOTTOM OF PIPE	HP HEAT PUMP	PD PRESSURE DROP
BTUH BRITISH THERMAL UNIT PER HOUR	HP HORSEPOWER	PH PHASE
BWP BRAKE HORSEPOWER	HRB HEAT RECOVERY BOX	PI PATIO HEATER
C CHILLER	HSPT HEATING SEASONAL PERFORMANCE FACTOR	PVC POLY VINYL CHLORIDE
CD CONDENSATE DRAIN	HVAC HEATING, VENTILATION, AND AIR CONDITIONING	PRV PRESSURE REDUCING VALVE
CFM CUBIC FEET PER MINUTE	HVLS HIGH VOLUME LOW SPEED FAN	PSI POUNDS PER SQUARE INCH
CH CEILING HEATER	HWP HEATING WATER PUMP	RA RETURN AIR
CO CARBON MONOXIDE	HWS HEATING WATER SUPPLY	RH RELATIVE HUMIDITY (%)
CO2 CARBON DIOXIDE	HWR HEATING WATER RETURN	RH RADIANT HEATER
COP COEFFICIENT OF PERFORMANCE	IBC INTERNATIONAL BUILDING CODE	RH RANGE HOOD
CRP CONDENSATE RETURN PUMP	IMC INTERNATIONAL MECHANICAL CODE	RPM REVOLUTIONS PER MINUTE
CT COOLING TOWER	IHP INDOOR HEAT PUMP	RTU ROOFTOP UNIT
CU CONDENSING UNIT	IN INCHES	RV RETURN AIR VALVE
CV CONSTANT VOLUME	INCHES OF WATER COLUMN	S SUCTION (REFRIGERANT)
CWP CHILLED WATER PUMP	IU INDOOR UNIT	SA SUPPLY AIR
CWR CHILLED WATER SUPPLY	KEF KITCHEN EXHAUST FAN	SEH STEAM CONDENSATE RETURN
CWR CHILLED WATER RETURN	KEH KITCHEN EXHAUST HOOD	SEER SEASONAL ENERGY EFFICIENCY RATIO
D DRAIN	KSF KITCHEN SUPPLY FAN	SP STATIC PRESSURE
dB DECIBEL (SOUND)	L LOUVER	STM STEAM
DB DRY BULB	LAT LEAVING AIR TEMPERATURE	S.S. STAINLESS STEEL
DDC DIRECT DIGITAL CONTROL	LBS POUNDS	SV SUPPLY AIR VALVE
DEMO DEMONSTRATION	LWT LEAVING WATER TEMPERATURE	T TEMPERATURE
DP DIFFERENTIAL PRESSURE	M MOTORIZED	UH UNIT HEATER
DX DIRECT EXPANSION	MAX MAXIMUM	V VOLTS
EAT ENTERING AIR TEMPERATURE	MAU MAKEUP AIR UNIT	VAV VARIABLE AIR VOLUME
EAT ENTERING AIR TEMPERATURE	MBD EXHAUST FAN	VFD VARIABLE FREQUENCY DRIVE
ECM ELECTRICALLY COMMUTATED MOTOR	ELEC END OF MAIN (STEAM TRAP)	VWF VARIABLE FREQUENCY DRIVE
EER ENERGY EFFICIENCY RATIO	ENR ENTERING NATURAL RADIATION	WB WET BULB
EF EXHAUST FAN	ESP EXTERNAL STATIC PRESSURE	WSP WET SOURCE HEAT PUMP
ELEC ELECTRICAL	EUV EXHAUST UNIT HEATER	W/ WITH
EQM END OF MAIN (STEAM TRAP)	EV EXHAUST AIR VALVE	W/O WITHOUT
ENR ENTERING NATURAL RADIATION	EWX ENTERING WATER TEMPERATURE	
ESP EXTERNAL STATIC PRESSURE	EXT EXISTING	
EUV EXHAUST UNIT HEATER		
EV EXHAUST AIR VALVE		
EWX ENTERING WATER TEMPERATURE		
EXT EXISTING		

ELECTRIC CEILING HEATER SCHEDULE

MARK	BASIS OF DESIGN	MANUFACTURER	MODEL	HW	CFM	DIMENSIONS	ELEC. DATA
							VOLTS/ PHASE

CH-1	BERKO	FFCHES7	5	300	2 X 2	277/1
CH-2	BERKO	FFCHES7	5	300	2 X 2	277/1

NOTES:
A. CEILING HEATERS SHALL MOUNT RECESSED INTO A 2'x2' T-BAR CEILING GRID.
B. PROVIDE WALL MOUNTED THERMOSTAT.
C. PROVIDE DISCONNECT SWITCH.

AIR DISTRIBUTION SCHEDULE

MARK	TYPE	BASIS OF DESIGN			FACE SIZE	LOCATION	FRAME (NOTE C)	FINISH	MATERIAL	MAX NC	MAX PD	DAMPER	PATTERN	DESCRIPTION
		MANUFACTURER		MODEL										
S-1	SUPPLY	TITUS		TDC	24x24	CEILING	TB	WHITE	STEEL	20	0.08"	NONE	4-WAY	SQUARE LOUVERED FACE DIFFUSER

NOTES:
A. BORDER TYPES AND MOUNTING REQUIREMENTS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLAN.
B. PROVIDE TRANSITIONS (INCLUDING SQUARE TO ROUND) WHERE REQUIRED TO TRANSITION FROM DUCT SIZE SHOWN TO AIR DEVICE NECK SIZE.
C. MOUNTING AND FRAMING NOTES:
• TB = LAY-IN DEVICE FOR INSTALLATION IN LAY-IN CEILING.
• PF = LAY-IN DEVICE WITH MOUNTING FRAME FOR HARD CEILING EQUAL TO TITUS RAPID MOUNT FRAME.
• CM = AIR DEVICE MOUNTED DIRECTLY TO DUCT OR DUCT TAP AS SHOWN ON DRAWING.
• SM = SURFACE MOUNT FOR MOUNTING DIRECTLY TO CEILING OR SIDEWALL.

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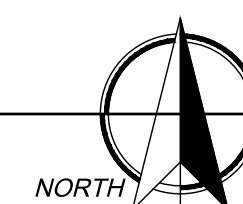
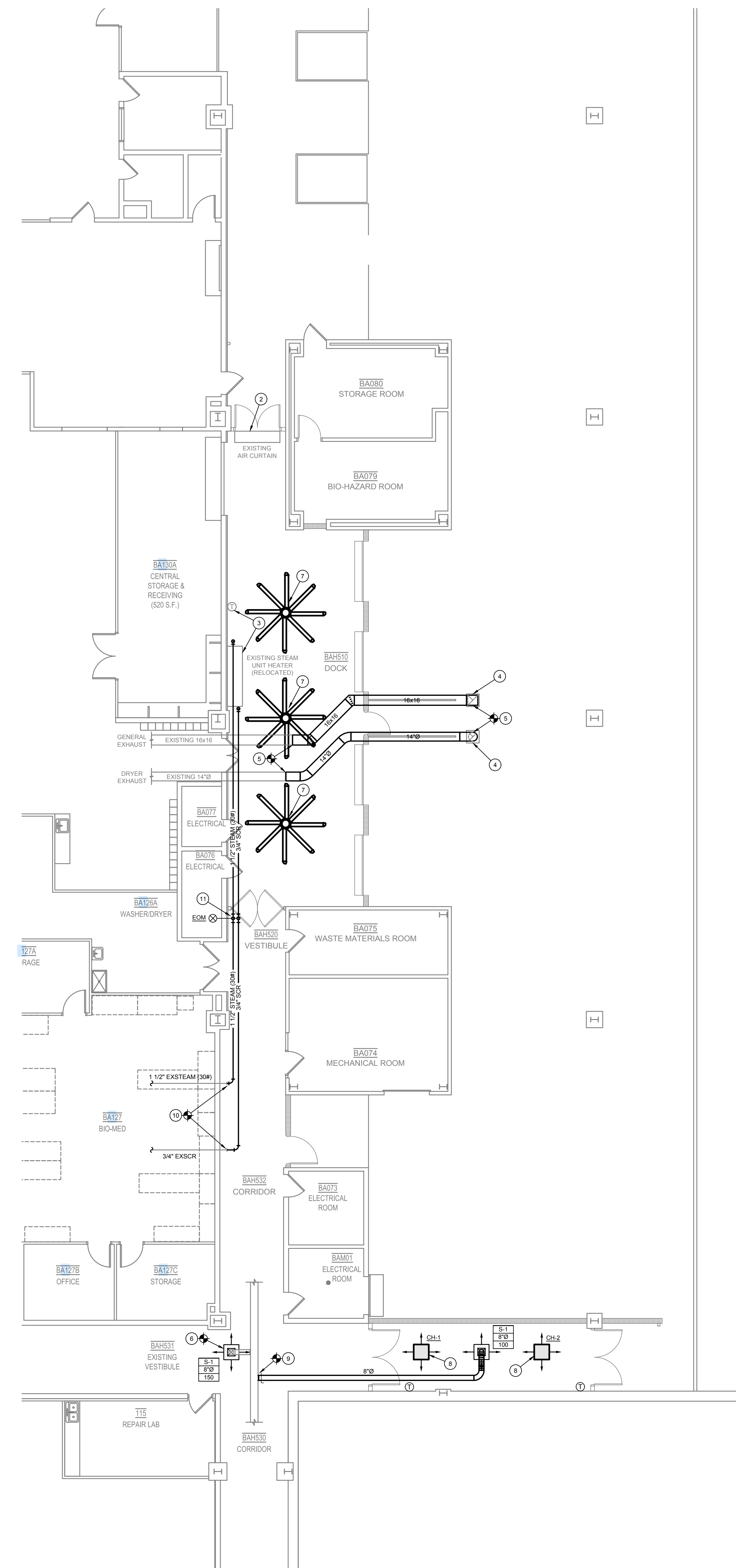
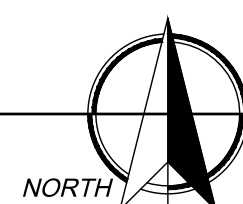
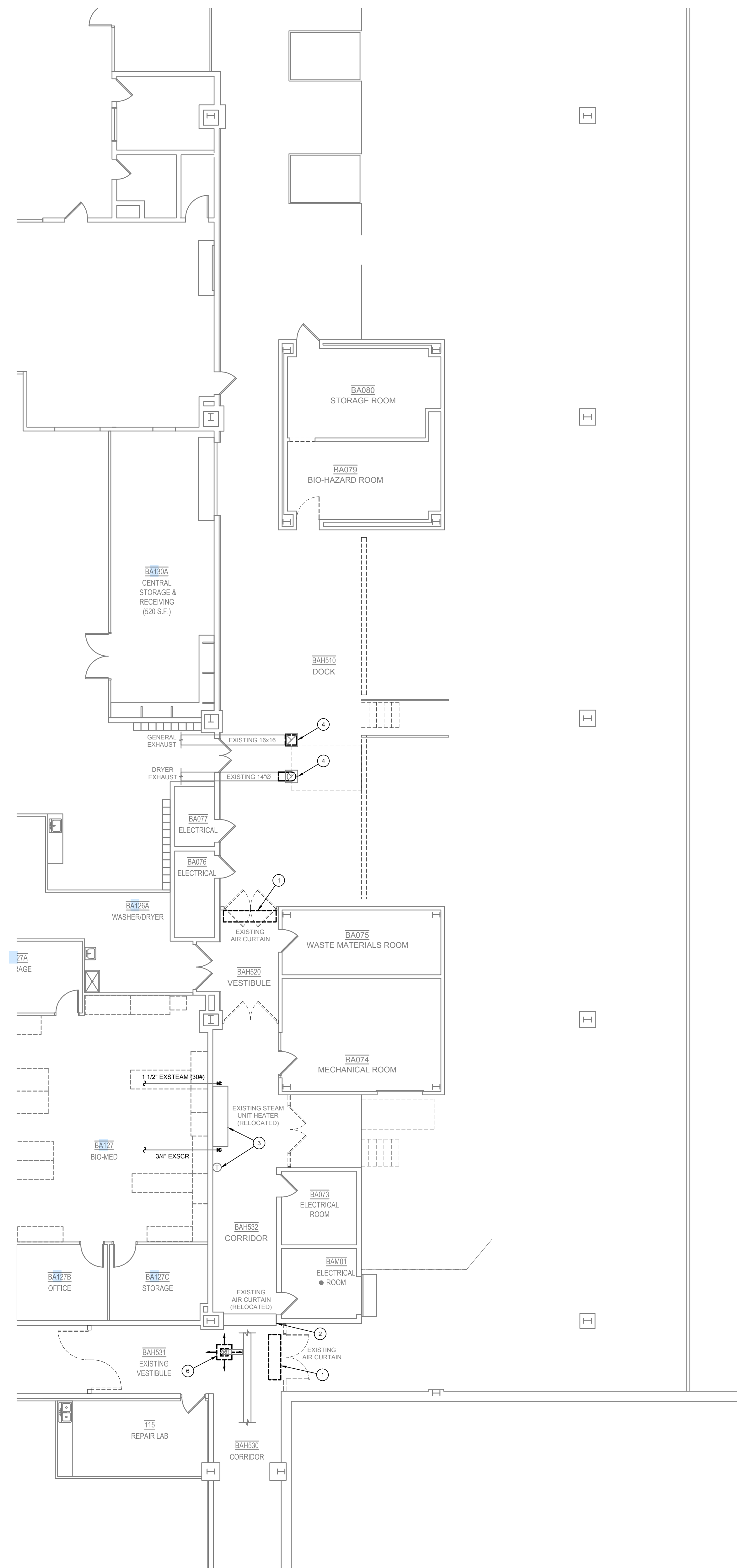
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PROJECT NO. 22421
DATE: 09/04/2025

SHEET NO.

M1

1 OF 2



GENERAL NOTES

A. REFER TO SHEET MO FOR ALL APPLICABLE GENERAL NOTES

FIRE SPRINKLER SYSTEM

A. REFER TO ARCHITECTURAL PHASING PLAN FOR PHASING

B. VERIFY EXACT LOCATION OF ALL EXISTING FIRE SPRINKLER HEADS, PIPING, AND ALL ASSOCIATED ITEMS AT THE JOBSITE.

C. THE EXISTING BUILDING IS PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM. MODIFY EXISTING SYSTEM TO ACCOMMODATE NEW FLOOR PLAN. FIRE SPRINKLER SYSTEM INSTALLED ACCORDING TO THE REQUIREMENTS OF NFPA-13 AND ALL APPLICABLE LOCAL CODES. CONTRACTOR SHALL VERIFY EXISTING SYSTEM SIZES AND LOCATIONS AND MODIFY/EXTEND EXISTING SYSTEM AS REQUIRED FOR A COMPLETE SYSTEM.

- D. FOR SPRINKLER HEADS LOCATED IN LAY-IN CEILINGS: PROVIDE CONCEALED HEADS LOCATED IN CENTER OF CEILING TILES.
- E. FIRE SPRINKLER LINES LOCATED IN UNHEATED SPACES SHALL UTILIZE A DRY TYPE SPRINKLER SYSTEM.

E. FIRE SPRINKLER LINES LOCATED IN UNHEATED SPACES SHALL UTILIZE A DRY TYPE SPRINKLER SYSTEM.

F. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.

G. CONTRACTOR SHALL COORDINATE ALL FIRE SPRINKLER SYSTEM DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER. VERIFY EXACT SCHEDULE WITH OWNER.

H. ALL FIRE SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL PIPE PER TTHSC STANDARDS, FLEXIBLE PIPING AND/OR FLEXIBLE HEADS ARE NOT ALLOWED.

H. ALL FIRE SPRINKLER PIPING SHALL BE SCHEDULE 40 STEEL PIPE PER TTHSC STANDARDS, FLEXIBLE PIPING AND/OR FLEXIBLE HEADS ARE NOT ALLOWED.

KEYED NOTES

1. REMOVE EXISTING AIR CURTAIN SHOWN DASHED, ALL SUPPORTS, POWER WIRING, CONTROLS, AND ALL OTHER ASSOCIATED ITEMS.

2. EXISTING 6" AIR CURTAIN TO BE RELOCATED AND REUSED. CLEAN UNIT AS MUCH AS POSSIBLE. PROVIDE ANY NEW COMPONENTS NEEDED FOR A COMPLETELY OPERATIONAL SYSTEM. INTERLOCK DOOR SWITCH WITH NEW DOORS TO POWER AIR CURTAIN ON WHEN DOORS ARE OPENED.

3. EXISTING STEAM UNIT HEATER TO BE RELOCATED AND REUSED. RELOCATE THERMOSTAT AS SHOWN. EXTEND OR MODIFY EXISTING STEAM AND CONDENSATE RETURN PIPING TO NEW LOCATION AS SHOWN. VERIFY EXISTING PIPE SIZES AND ROUTING IN FIELD. PROVIDE ANY NEW COMPONENTS NEEDED FOR A COMPLETELY OPERATIONAL SYSTEM.

4. EXISTING EXHAUST GRILLE MOUNTED IN UNDERSIDE OF DOCK CEILING TO BE RELOCATED. CLEAN GRILLE AS MUCH AS POSSIBLE AND RE-INSTALL AT NEW LOCATION AS SHOWN.

5. EXTEND EXISTING EXHAUST DUCT WITH INTERSTITIAL SPACE AS SHOWN TO NEW LOCATION OF EXHAUST GRILLE. NEW DUCTWORK SHALL MATCH EXISTING DUCT SIZE AND MATERIAL, VERIFY IN FIELD

6. REMOVE AND REPLACE EXISTING SUPPLY DIFFUSER WITH NEW. RE-CONNECT EXISTING DUCT RUNOUT, AND MAINTAIN EXISTING AIRFLOW.

7. NEW HVLS FAN PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. LOCATE NEW CONTROLLERS AS DIRECTED BY OWNER.

8. NEW ELECTRIC CEILING HEATER. LOCATE THERMOSTAT AS SHOWN

9. CONNECT NEW SUPPLY DUCT TO EXISTING MAIN DUCT, PROVIDE TAP AND M.B.D.

10. CONNECT NEW 30# STEAM AND CONDENSATE RETURN LINES TO EXISTING LINES, AND ROUTE TO NEW UNIT HEATER LOCATION. LINE SIZES SHOWN ARE APPROXIMATE AND SHALL BE USED FOR BIDDING PURPOSES ONLY. FIELD VERIFY EXISTING LINE SIZES, NEW LINE SIZES SHALL MATCH EXISTING SIZES.

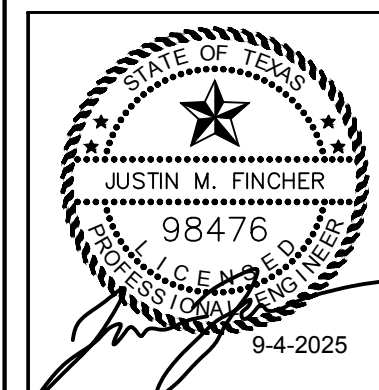
11. ROUTE STEAM AND CONDENSATE RETURN LINES UP INTO HIGHER INTERSTITIAL SPACE. PROVIDE END OF MAIN (EOM) TRAP ASSEMBLY AT LOW POINT. SLOPE ALL NEW STEAM PIPING BACK TO THIS TRAP.

CONDRA Y

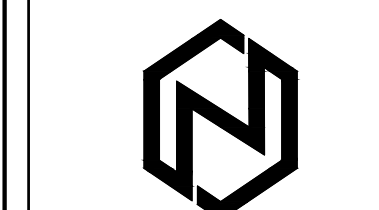


ARCHITECTURE
& INTERIOR DESIGN

3708 UPLAND AVE.
LUBBOCK, TX 79407
806.748.6190
condray.com



TX FIRM #F-16408
5621 114TH ST., SUITE 100
LUBBOCK, TX 79424
PH: 806-701-5109
WWW.FINCHERENG.COM



Nieman Engineering, LLC
5502 58th St, Suite 400
Lubbock, Texas 79414
T: 806-589-3340 TBPE Firm
Registration No. E-14440

UNIVERSITY MEDICAL CENTER
TTUHSC DOCK EXPANSION

3601 4TH STREET
UBBOCK, TX 79430

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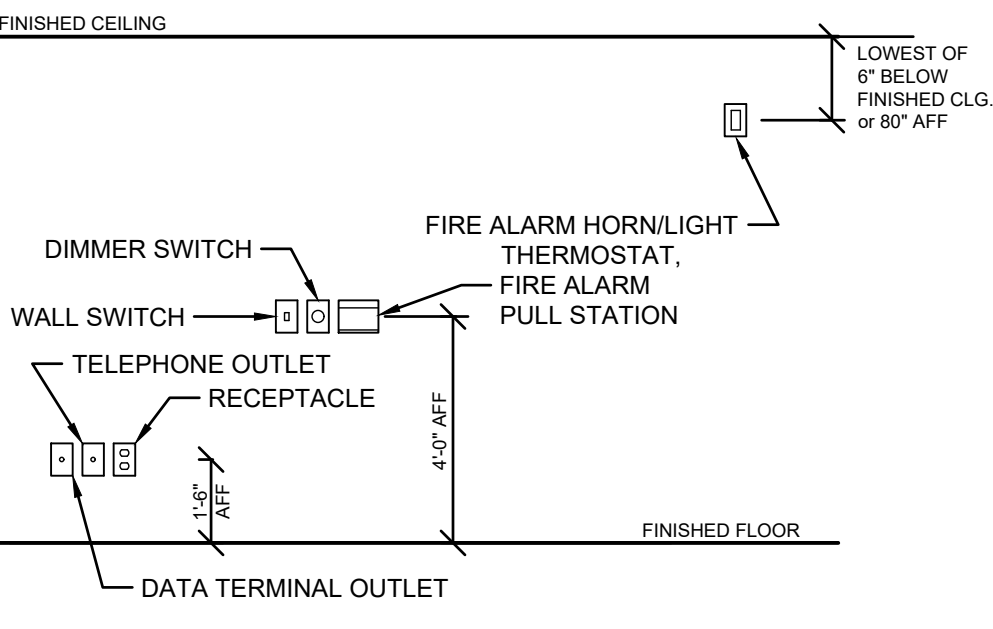
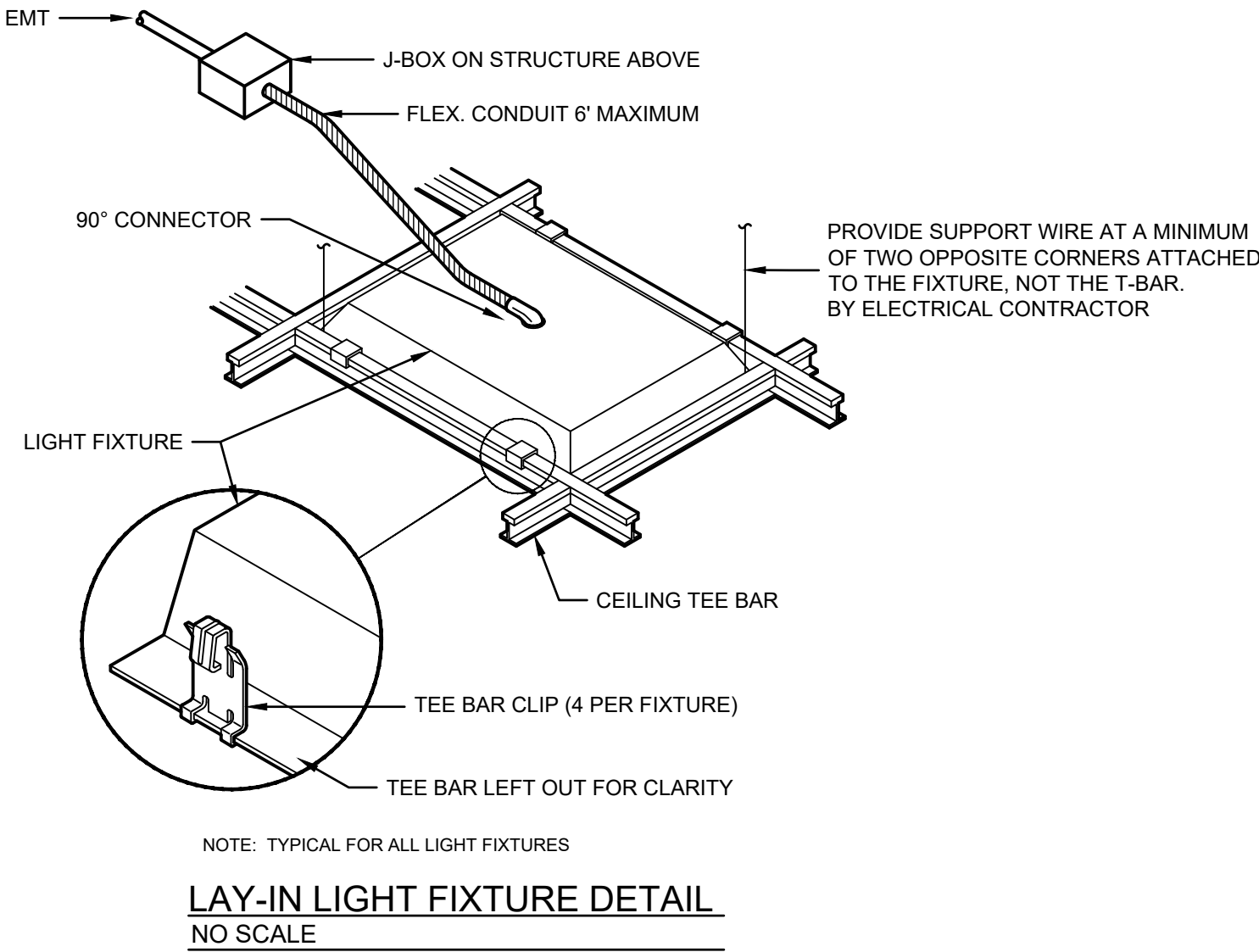
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PROJECT NO.	224
DATE:	09/04/202

SHEET NO.
M2

2	OF	2
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MOUNTING SURFACE					EXISTING PANEL "KPA"										MAINS		400A MLO	
208/120 VOLTS 3 PHASE 4 WIRE + GR.															BUS		400 AMPS.	
DESCRIPTION	LOAD / PHASE			BKR	CKT NO.	NOTES	CKT NO.	BKR	LOAD / PHASE			DESCRIPTION						
	A	B	C						A	B	C							
EXISTING				20	1		2	20				EXISTING						
EXISTING				20	3		4	20				EXISTING						
EXISTING				20	5		6	20				EXISTING						
EXISTING				20	7		8	20				EXISTING						
EXISTING				20	9		10	20				EXISTING						
EXISTING				20	11		12	20				EXISTING						
EXISTING				20	13		14	20				EXISTING						
EXISTING				20	15		16	20				EXISTING						
EXISTING				20	17		18	20				EXISTING						
EXISTING				20	19		20	20				EXISTING						
EXISTING				20	21		22	20				EXISTING						
EXISTING				20	23		24	20				EXISTING						
EXISTING				20	25		26											
EXISTING				20	27		28					EXISTING						
EXISTING				20	29		30											
EXISTING				20	31		32	20				EXISTING						
EXISTING				20	33		34	20				EXISTING						
EXISTING				20	35		36	20				EXISTING						
EXISTING				20	37		38	20				EXISTING						
EXISTING				20	39		40	20				EXISTING						
EXISTING				20	41		42	20				EXISTING						
EXISTING				20	43		44	20	864			HVLS FAN						
					45		46	20		864		HVLS FAN						
EXISTING					47		48	20			864	HVLS FAN						
					49		50	20				SPARE						
					51		52	20				SPARE						
EXISTING					53		54	20			500	DOCK LIGHTS						
					55		56	20	1200			DOCK LEVEL						
					57		58	20		1200		DOCK LEVEL						
EXISTING					59		60	20			800	RECEPTACLE						
CONNECTED LOAD: 6,292																		
PHASE A:				2064	AMPS	17												
PHASE B:				2064	AMPS	17												
PHASE C:				2164	AMPS	18												
NOTES:																		



WIRING DEVICE MOUNTING HEIGHTS - TYPICAL
NO SCALE

LIGHT FIXTURE SCHEDULE													
MARK	REFERENCE IMAGE	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	FINISH	TYPE	VOLTS	WATTS	LUMENS	TEMP(°K)	DIMMING	NOTES
A		ACUTY	ENVX-2X4-HRG-4800LM-80CRI-40K-MIN10-MVOLT	CURVED LENS RECESSED 2'X4' PANEL	RECESSED	WHITE	LED	277	40	4800	4000	0-10V	
AE		ACUTY	ENVX-2X4-HRG-4800LM-80CRI-40K-MIN10-MVOLT-E10W/CP	CURVED LENS RECESSED 2'X4' PANEL WITH EMERGENCY BATTERY	RECESSED	WHITE	LED	277	40	4800	4000	0-10V	
B		LITHONIA	CNY LED ALO 5WW2 VOLT PE PIR D08 M2	10" SQUARE CANOPY LIGHT FIXTURE	SURFACE	DARK BRONZE	LED	277	75 MAX	SELECTABLE	SELECTABLE	N/A	
BE		LITHONIA	CNY LED ALO 5WW2 VOLT PE PIR D08 M2 - CNYEK E7VC M12	10" SQUARE CANOPY LIGHT FIXTURE WITH EMERGENCY BATTERY	SURFACE	DARK BRONZE	LED	277	75 MAX	SELECTABLE	SELECTABLE	N/A	
C		EELP	DL 40" HOLED	LOADING DOCK ARM LIGHT	WALL	YELLOW	LED	120	18	900		N/A	COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN
X		LITHONIA	LE S 1 RELN SD	SINGLE FACED EXIT SIGN WITH EMERGENCY BATTERY	SURFACE	MATTE BLACK BRUSHED ALUMINUM FACE	LED	277	2	N/A	N/A	N/A	
LIGHT FIXTURE SCHEDULE GENERAL NOTES													
A. COORDINATE/CONFIRM ALL FIXTURE FINISHES WITH ARCHITECT DURING SUBMITTAL STAGE.													
B. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT FIXTURE LOCATIONS.													

ELECTRICAL SYMBOL SCHEDULE	
	2x4 RECESSED LIGHT FIXTURE
	2x4 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP
	2x2 SURFACE MOUNT LIGHT FIXTURE
	2x2 RECESSED LIGHT FIXTURE WITH BATTERY BACK-UP
	SURFACE MOUNTED LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP
	WALL MOUNTED LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE WITH BATTERY BACK-UP
	WALL PACK LIGHT FIXTURE
	WALL PACK LIGHT FIXTURE WITH BATTERY BACK-UP
	EMERGENCY FIXTURE
	EXIT SIGN - NUMBER OF FACES INDICATED BY SHADING
	SPST WALL SWITCH
	THREE-WAY SWITCH
	FOUR-WAY SWITCH
	POWER PACK
	DUPLEX RECEPTACLE - 20A, 120V, 2P, 3W, GROUNDING
	JUNCTION BOX
	DISCONNECT SWITCH
	STARTER/DISCONNECT SWITCH
	CIRCUIT RUN TO PANELBOARD - NUMBER OF WIRES SHOWN
	CIRCUIT INDICATOR
	SURFACE MOUNTED LIGHTING AND APPLIANCE PANELBOARD
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
	FIRE ALARM PULL STATION
	FIRE ALARM AUDIBLE/STROBE UNIT
	FIRE ALARM STROBE UNIT
	FIRE ALARM SMOKE DETECTOR
	COMBINATION CARBON MONOXIDE/SMOKE DETECTOR
	SECURITY CAMERA

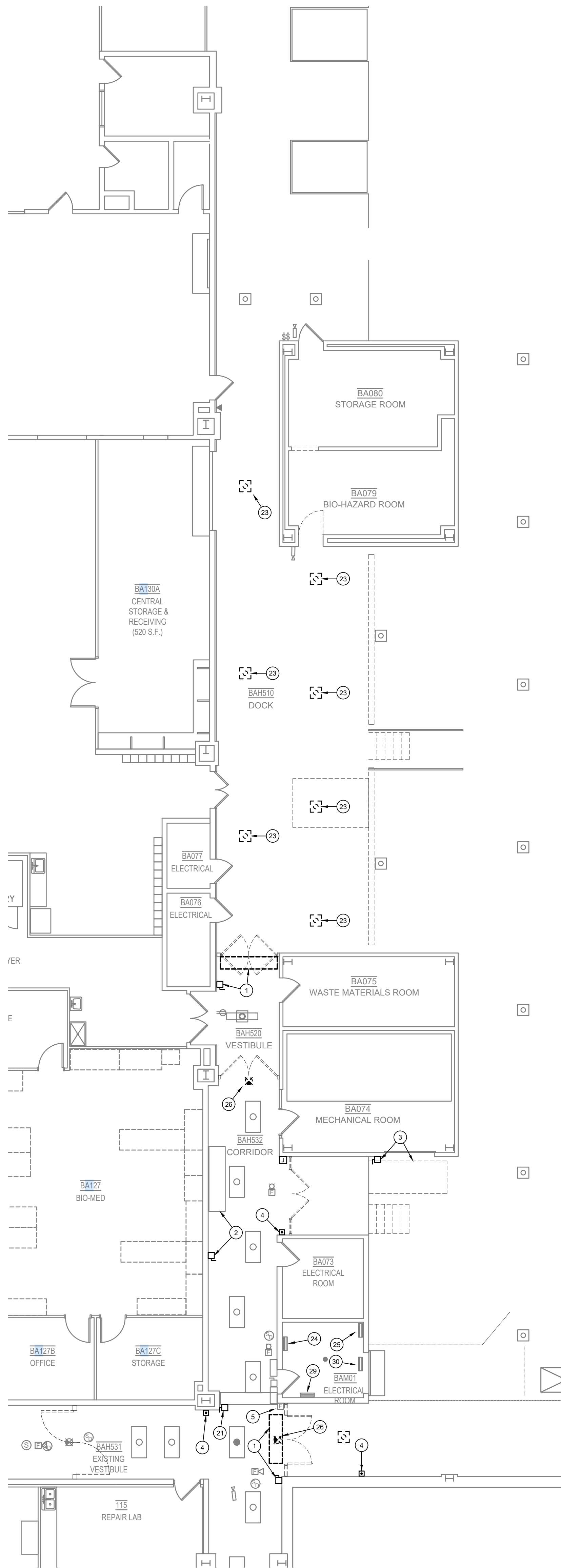
ELECTRICAL ABBREVIATIONS			
ABOVE COUNTER	AC	KILOVOLT	kV
ABOVE FINISHED FLOOR	AC	KILOVOLT AMP	kVA
ALTERNATING CURRENT	AC	KILOWATT	kW
AMERICAN NATIONAL STANDARDS INSTITUTE	ANSI	KILOWATT HOUR	kWh
AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM		
AMERICAN WIRE GAUGE	AWG	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	LFMC
AMPERE	AMP	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	LFNC
AMPHOUR	AH	LOW VOLTAGE	LV
AMPERE INTERRUPTING CAPACITY	AIC	LUMEN	LM
ARC FAULT CIRCUIT INTERRUPTER	AFCI	LUMENS PER WATT	LPW
AUTHORITY HAVING JURISDICTION	AHJ		
AUTOMATIC TRANSFER SWITCH	ATS	MAIN CIRCUIT BREAKER	MCB
BATTERY	BAT	MAIN LUGS ONLY	MLO
BUILDING AUTOMATION SYSTEM	BAS	MINIMUM	MIN
		MINIMUM CIRCUIT AMPS	MCA
CEILING	CO	MOTOR CONTROL CENTER	MCC
COAXIAL CABLE	COAX		
COLOR RENDERING INDEX	CRI	NATIONAL ELECTRICAL CODE	NEC
COMMUNICATIONS	COMM	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	NEMA
CONDUIT	C	NATIONAL FIRE CODE	NFC
CONTROL	CTRL	NATIONAL FIRE PROTECTION ASSOCIATION	NFPA
COPPER	CU	NOTIFICATION APPLIANCE CIRCUIT	NAC
CURRENT TRANSFORMER	CT	PANELBOARD	PB
DECIBEL (SOUND)	dB	PHASE	PH
DEMOLITION	DEMO	POLY VINYL CHLORIDE	PVC
DIRECT CURRENT	DC	POWER FACTOR	PF
DOUBLE POLE DOUBLE THROW	DPDT	PUBLIC ADDRESS	PA
DOUBLE POLE SINGLE THROW	DPST		
ELECTRIC	ELEC	RECEPTACLE	RECEPT
ELECTRICAL METALLIC TUBING	EMT	RIGID GALVANIZED STEEL	RGS
ELECTRICAL NONMETALLIC TUBING	ENT	RIGID NONMETALLIC CONDUIT	RNC
FIRE ALARM ANNUNCIATOR PANEL	FAAP	SINGLE PHASE	1Ø
FIRE ALARM CONTROL PANEL	FACP	SINGLE POLE DOUBLE THROW	SPDT
FLEXIBLE METALLIC CONDUIT	FMC	SINGLE POLE SINGLE THROW	SPST
FOOTCANDLE	FC	SWITCHBOARD	SWBD
FLA	FLA	THREE PHASE	3Ø
GAUGE	GA	UNINTERRUPTIBLE POWER SUPPLY	UPS
GROUND	GND	VARIABLE FREQUENCY DRIVE	VFD
GROUND FAULT CIRCUIT INTERRUPTER	GFCI	VOLT VOLTS VOLTAGE	V
HORSEPOWER	HP	VOLTS	V
INTERMEDIATE METAL CONDUIT	IMC	WEATHERPROOF	WP
INTERNATIONAL BUILDING CODE	IBC		

WIRE AND CONDUIT SIZING CHART																				
BREAKER	15	20	25	30	35	40	45	50	60	70	80	90	100	125	150	175	200	225	300	400
PHASE	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
NEUTRAL	#12	#12	#10	#10	#8	#8	#6	#6	#6	#4	#4	#2	#2	#1	#1/0	#2/0	#3/0	#4/0	#350 KCMIL	#500 KCMIL
GROUND	#12	#12	#10	#10	#10	#10	#10	#10	#10	#8	#8	#8	#8	#6	#6	#6	#6	#4	#4	#3
CONDUIT	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	3"	4"

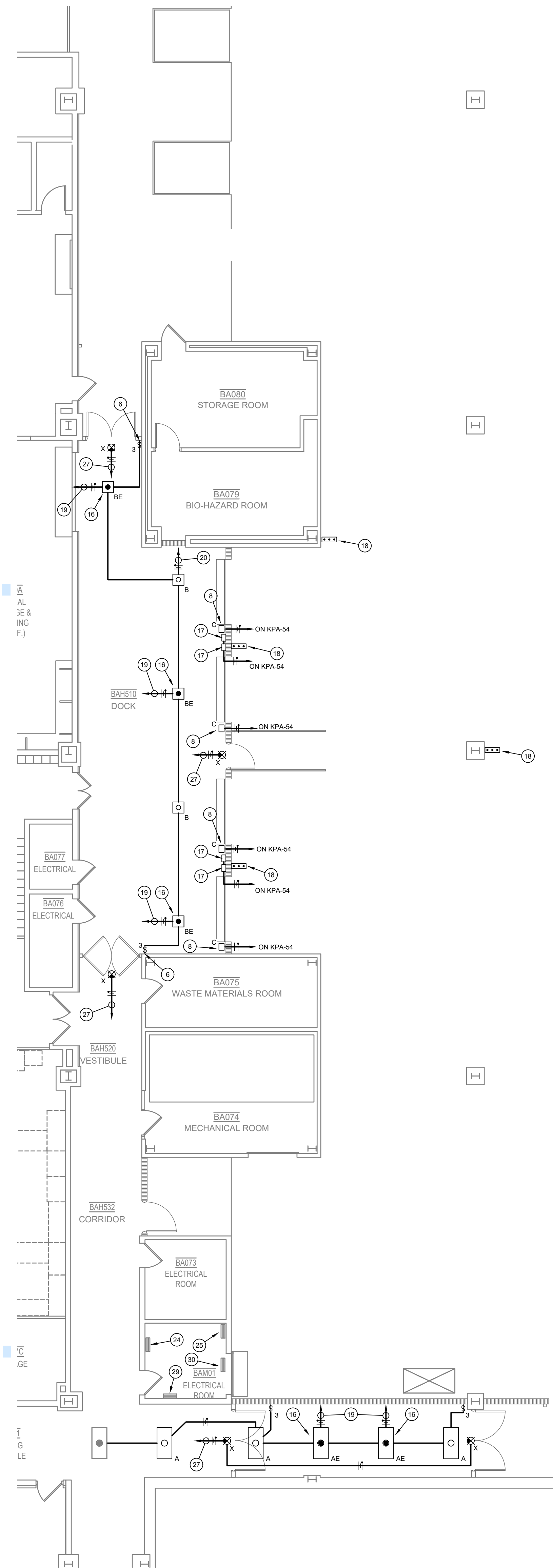
- NOTES:
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS, ALL CONDUCTORS AND CONDUIT SHALL BE SIZED FROM THIS CHART.
 - ALL 120V LIGHTING AND POWER CIRCUITS OTHER THAN SHALL BE #10 THIN.
 - LOCAL DISCONNECT SIZES SHALL BE BASED ON CIRCUIT BREAKER RATING/SIZE.

ELECTRICAL GENERAL NOTES

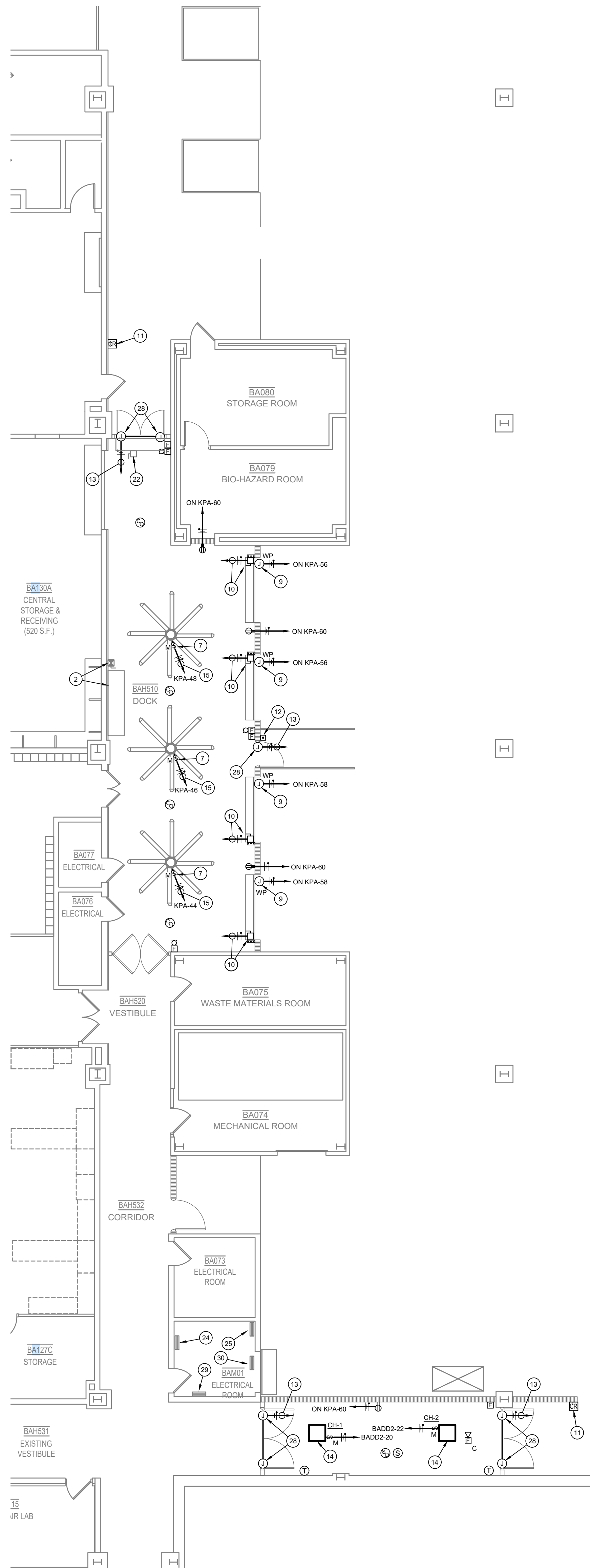
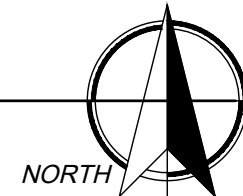
- THESE DRAWINGS HAVE BEEN PRODUCED WITH LIMITED INFORMATION ABOUT THE EXISTING BUILDING AND THE EXISTING ELECTRICAL SYSTEMS. THE EXISTING INFORMATION MAY BE LIMITED TO SITE SURVEYS PERFORMED BY THE ENGINEER AND/OR EXISTING AS-BUILT DRAWINGS. THE EXISTING ELECTRICAL SYSTEMS SHOWN ON THE DRAWINGS ARE DETAILED WITH THE BEST ACCURACY KNOWN BY THE ENGINEER AT THE TIME OF THE PROJECT, AND MAY NOT REFLECT THE ACTUAL EXISTING CONDITIONS ON SITE. THE CONTRACTOR SHALL ADJUST THE NEW INSTALLATION AS NEEDED TO ADAPT TO THE ACTUAL CONDITIONS, AND SHALL NOTIFY THE ARCHITECT OF ANY MAJOR DISCREPANCIES.
- VERIFY THE EXACT LOCATION OF ALL EXISTING EQUIPMENT, LIGHT FIXTURES, PANELBOARDS, DISCONNECTS, DEVICES, CONDUITS AND WIRING AT JOBSITE. CONTRACTOR SHALL WALK THE SITE AND BECOME FAMILIAR WITH ALL EXISTING SYSTEMS AND INSTALLATIONS. CONTRACTOR SHALL TAKE CARE TO PROTECT ALL OPERATIONAL SYSTEMS. ANY EXISTING SYSTEMS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- FOR ALL ITEMS SHOWN TO BE REMOVED, REMOVE ALL ASSOCIATED ITEMS INCLUDING HANGERS, SUPPORTS, CONDUIT, ELECTRICAL WIRING, CONTROL WIRING, ETC. THE OVERALL INTENT OF THE DEMOLITION SHALL BE TO CLEAN UP THE EXISTING AREA AS MUCH AS POSSIBLE OF OLD ITEMS THAT ARE NO LONGER BEING UTILIZED FOR THE NEW SCOPE OF WORK.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DISCONNECTIONS AND INTERRUPTIONS WITH BUILDING OWNER. ANY SHUT DOWNS OF EXISTING SYSTEMS THAT ARE REQUIRED SHALL BE COORDINATE WITH THE BUILDING OWNER MINIMUM 7 DAYS IN ADVANCE, AND SHALL BE DONE TO MINIMIZE THE DISTURBANCE TO THE BUILDING OCCUPANTS.
- VERIFY EXACT SCHEDULE AND PHASING OF PROJECT WITH THE ARCHITECT.
- THE BUILDING OWNER SHALL RETAIN THE FULL RIGHTS OF SALVAGE FOR ALL ELECTRICAL EQUIPMENT INDICATED TO BE REMOVED. THE CONTRACTOR SHALL COORDINATE WITH OWNER ON ALL SALVAGED ITEMS. THE CONTRACTOR SHALL DELIVER THESE PIECES OF EQUIPMENT TO A LOCATION AS DIRECTED BY THE OWNER. FOR ALL ITEMS THAT THE OWNER DOES NOT SALVAGE, THE CONTRACTOR SHALL DISPOSE OF OFF SITE AS REQUIRED.
- SEAL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS OR AS INDICATED ON THE ARCHITECTURAL DRAWINGS.
- INSPECT EXISTING EQUIPMENT TO REMAIN TO VERIFY THAT EQUIPMENT IS OPERATING PROPERLY. NOTIFY OWNER OF DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS IN ADDITION TO THE RELATED PLUMBING, MECHANICAL, ARCHITECTURAL, AND CIVIL ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE ENTIRE SCOPE OF THE PROJECT. IN ADDITION, THE CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND ANY LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS WORK.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND FULLY OPERATIONAL SYSTEM FOR THE BUILDING OWNER. MATERIALS, EQUIPMENT OR LABOR NOT INDICATED, BUT WHICH CAN BE REASONABLY INFERRED TO BE NECESSARY FOR A COMPLETE INSTALLATION SHALL BE PROVIDED. THE DRAWINGS AND SPECIFICATIONS DO NOT UNDERTAKE TO INDICATE EVERY ITEM OF MATERIAL, EQUIPMENT OR LABOR REQUIRED TO PRODUCE A SAFE, COMPLETE AND PROPERLY OPERATING SYSTEM.
- THE DRAWING SHEETS SHALL BE PRINTED USING THE CORRECT PAPER SIZE IN ORDER FOR ANY SCALED ITEMS TO BE ACCURATE. HOWEVER, THE CONTRACTOR SHALL NOT RELY ON THE SCALED DRAWINGS FOR EXACT MEASUREMENTS. THE LOCATIONS, ARRANGEMENT AND EXTENT OF EQUIPMENT, LIGHT FIXTURES, DEVICES AND ITEMS RELATED TO THE INSTALLATION OF THE ELECTRICAL WORK SHOWN ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED PLUMBING, FIRE PROTECTION, MECHANICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR, AND CIVIL ENGINEERING DRAWINGS, THE CONTRACTOR SHALL, IN ORDER TO PROTECT THE PROJECT, NOTIFY THE ARCHITECT IMMEDIATELY. THE ARCHITECT SHALL HAVE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER WITH A COMPLETE SET OF "AS BUILT" DRAWINGS SHOWING ALL FIELD MODIFICATIONS THAT DEVIATE FROM THE CONSTRUCTION SET OF PLANS AT THE COMPLETION OF THE PROJECT.
- HANDLE AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S AND SUPPLIER'S RECOMMENDATIONS AND IN A MANNER TO PREVENT DAMAGE TO MATERIALS DURING STORAGE AND HANDLING. REPLACE DAMAGED MATERIALS AS NEEDED AT NO ADDITIONAL COST TO THE OWNER. EQUIPMENT AND MATERIALS SHALL NOT BE INSTALLED UNTIL SUCH TIME AS THE ENVIRONMENTAL CONDITIONS OF THE JOB SITE ARE SUITABLE TO PROTECT THE EQUIPMENT OR MATERIALS. EQUIPMENT OR MATERIALS DAMAGED, OR WHICH ARE SUBJECTED TO THESE ELEMENTS, ARE UNACCEPTABLE AND SHALL BE REMOVED FROM THE PREMISES AND REPLACED.
- ORDER OF PRECEDENCE SHALL BE OBSERVED IN LAYING OUT THE PIPE, DUCTWORK, MATERIAL, AND CONDUIT IN ORDER TO FIT THE MATERIAL INTO THE SPACE ABOVE THE CEILING AND IN THE CHASES AND WALLS. THE FOLLOWING ORDER SHALL GOVERN:
 - ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE.
 - UNLESS OTHERWISE SPECIFIED, THE FOLLOWING ORDER SHALL GOVERN:
 - ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE.
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 - ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE.
 - UNLESS OTHERWISE SPECIFIED, THE FOLLOWING ORDER SHALL GOVERN:
 - ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLETS, PANELBOARDS, ETC. COORDINATE ALL ITEMS TO AVOID CONFLICTS AT THE SITE.
 - UNLESS OTHERWISE SPECIFIED, THE FOLLOWING ORDER SHALL GOVERN:
 - ITEMS AFFECTING THE VISUAL APPEARANCE OF THE INSIDE OF THE BUILDING SUCH AS LIGHTING FIXTURES, DIFFUSERS, GRILLES, OUTLE



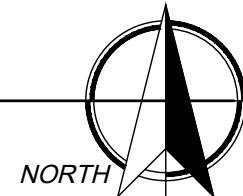
1/E2 FLOOR PLAN - ELECTRICAL DEMOLITION
SCALE: 1/8" = 1'-0"



2/E2 FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



3/E2 FLOOR PLAN - POWER/COMMUNICATION
SCALE: 1/8" = 1'-0"



- GENERAL NOTES**
- A. REFER TO SHEET E0 FOR ALL GENERAL NOTES APPLICABLE TO THIS SHEET.
- KEYED NOTES**
- EXISTING AIR CURTAIN TO BE DEMOLISHED. ALL ASSOCIATED ELECTRICAL SHALL BE REMOVED BACK TO ORIGIN.
 - EXISTING STEAM HEATER TO BE RELOCATED. ASSOCIATED ELECTRICAL DISCONNECT SHALL BE RELOCATED. EXTEND AND CONNECT TO EXISTING CIRCUIT AS EXISTING.
 - EXISTING LIFT SHALL BE DEMOLISHED. ALL ASSOCIATED ELECTRICAL SHALL BE REMOVED BACK TO ORIGIN.
 - EXISTING REQUEST TO EXIT SHALL BE DEMOLISHED.
 - EXISTING FIRE ALARM PULL STATION SHALL BE RELOCATED TO NEW DOOR.
 - PROVIDE NEW LIGHT SWITCH TO CONTROL EXISTING LIGHTING.
 - NEW 120V HVLS FAN PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. LOCATE NEW CONTROLLERS AS DIRECTED BY OWNER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EMERGENCY SHUT DOWN RELAY AND INTERFACE TO THE FIRE ALARM CONTROL SYSTEM FOR UNIT SHUTDOWN UPON FIRE SPRINKLER SYSTEM ACTIVATION.
 - WALL MOUNTED DOCK LIGHT. MOUNT AS DIRECTED BY MANUFACTURER. COORDINATE ALL SPACE REQUIREMENTS WITH ALL WALL MOUNTED EQUIPMENT PRIOR TO INSTALLATION.
 - DOCK LEVELER. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
 - DISCONNECT SWITCH AND WALL MOUNTED SWITCH TO SERVE OVERHEAD DOOR. EXTEND (2) #12 AWG + #12 GND IN 3/4" CONDUIT TO NEW 20A-1P CIRCUIT BREAKER IN EXISTING PANEL "BA002". (BA002 - 81, 82, 83, 84) PROVIDE ALL LABOR AND MATERIAL REQUIRED TO FULLY CONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE ALL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN.
 - PROVIDE BACKBOX AND PATHWAY TO SERVE CARD READER. COORDINATE REQUIREMENTS WITH SECURITY PERSONNEL.
 - PROVIDE BACKBOX AND PATHWAY TO SERVE AUTOMATIC DOORMAG LOCKS.
 - PROVIDE 120V CONNECTION AND PATHWAYS TO SERVE SECURE DOOR. PROVIDE 20A-1P CIRCUIT BREAKER IN PANEL "BA002". (CIRCUITS BA002 - 20, 22)
 - 277V, 9KW HEATER. PROVIDE (2) #10 AWG + #10 GND IN 3/4" CONDUIT TO NEW 30A-1P CIRCUIT BREAKER IN PANEL "BA002". (CIRCUITS BA002 - 20, 22)
 - (2) #12 AWG + #12 GND IN 3/4" CONDUIT TO NEW 20A-1P CIRCUIT BREAKER IN EXISTING PANEL "KPA". CIRCUIT SHALL BE ROUTED THROUGH EMERGENCY SHUTDOWN RELAYS FOR HVLS FAN SHUTDOWN UPON FIRE ALARM ACTIVATION.
 - PROVIDE LIGHT FIXTURE WITH UL LISTED 924 RELAY FOR LIGHT/EMERGENCY CONTROL.
 - DOK LOK LIGHT COMMUNICATIONS SYSTEM. COORDINATE MOUNTING LOCATION AND HEIGHT WITH ARCHITECTURAL ELEVATIONS AND ALL WALL MOUNTED EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE 3/4" CONDUIT AND CONTROL WIRE ASSOCIATED WALL MOUNTED TRAFFIC LIGHT SYSTEMS.
 - WALL MOUNTED EXTERIOR TRAFFIC LIGHT SYSTEM. PROVIDE 3/4" CONDUIT WITH CONTROL WIRE TO DOK LOK CONTROLLER. REFER TO KEYED NOTE #17.
 - (2) #12 AWG + #12 GND IN 3/4" CONDUIT TO ADJACENT CORRIDOR EMERGENCY CIRCUIT.
 - (2) #12 AWG + #12 GND IN 3/4" CONDUIT TO ADJACENT CORRIDOR NORMAL LIGHTING CIRCUIT.
 - EXISTING AIR CURTAIN TO BE REMOVED AND RELOCATED. EXTEND ALL EXISTING ELECTRICAL AS REQUIRED TO RECONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM AS EXISTING.
 - NEW LOCATION OF RELOCATED AIR CURTAIN. EXTEND ALL EXISTING ELECTRICAL AS REQUIRED TO RECONNECT FOR A COMPLETE AND OPERATIONAL SYSTEM AS EXISTING.
 - EXISTING LIGHT FIXTURE AND ASSOCIATED WIRE AND CONDUIT TO BE REMOVED. ALL EXISTING LIGHTS SHOWN TO REMAIN SHALL MAINTAIN ALL POWER AND SWITCHING AS EXISTING. RECONNECT AS REQUIRED.
 - EXISTING PANEL "KPA" TO REMAIN. REMOVE (3) 20A-3P CIRCUIT BREAKERS (KPA - 44-60) PROVIDE WITH NEW 20A-1P CIRCUIT BREAKERS. REFER TO PANEL SCHEDULE.
 - EXISTING PANEL "BA002"
 - EXISTING EXIT SIGN TO BE REMOVED. EXTEND ELECTRICAL CIRCUIT TO NEW EXIT FIXTURE AND RECONNECT AS EXISTING.
 - (2) #12 AWG + #12 GND IN 3/4" CONDUIT TO EXISTING EXIT SIGN ELECTRICAL CIRCUIT. RECONNECT AS EXISTING.
 - JUNCTION BOX TO SERVE DOOR ACCESS CONTROL POWER AND COMMUNICATION. COORDINATE ADDITIONAL REQUIREMENTS WITH SECURITY CONTRACTOR AND DOOR FRAME MANUFACTURER.
 - EXISTING PANEL "BA002"
 - EXISTING PANEL "BA002"

CONDRA Y
DESIGN GROUP
ARCHITECTURE
& INTERIOR DESIGN

3708 UPLAND AVE.
LUBBOCK, TX 79407
806.748.6190
condray.com

Billy D. Little
9-4-2025

TX FIRM WF-10408
5621 114TH ST., SUITE 100
LUBBOCK, TEXAS 79424
PH: 806-701-5109
WWW.FINCHERENG.COM

Nieman Engineering, LLC
5502 58th St., Suite 400
Lubbock, Texas 79424
T: 806-589-3340 TBE Firm
Registration No. F-14148

UNIVERSITY MEDICAL CENTER
TTUHSC DOCK EXPANSION

3401 4TH STREET
LUBBOCK, TX 79430

REVISIONS:

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PROJECT NO. 22421
DATE: 09/04/2025

SHEET NO.
E2

2 OF 2