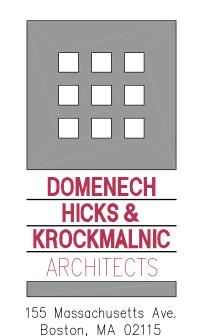
- · PORTLAND INTERNATIONAL AIRPORT ·
 - · TERMINAL PASSENGER ·
 - · CIRCULATION IMPROVEMENTS ·
 - · PORTLAND, ME ·
 - · CITY OF PORTLAND, PORTLAND, ME ·
 - · DEPARTMENT OF WATERFRONT AND ·
 - · TRANSPORTATION · BID #608



617-267-6408 Fax 617-267-1990 · DOMENECH HICKS & KROCKMALNIC, INC. ·

PROJECT MANAGEMENT
ARCHITECTURAL AND SITE DESIGN
155 MASSACHUSETTS AVE
BOSTON, MA 02115
TEL: 617-267-6408
FAX: 617-267-1990
www.dhkinc.com



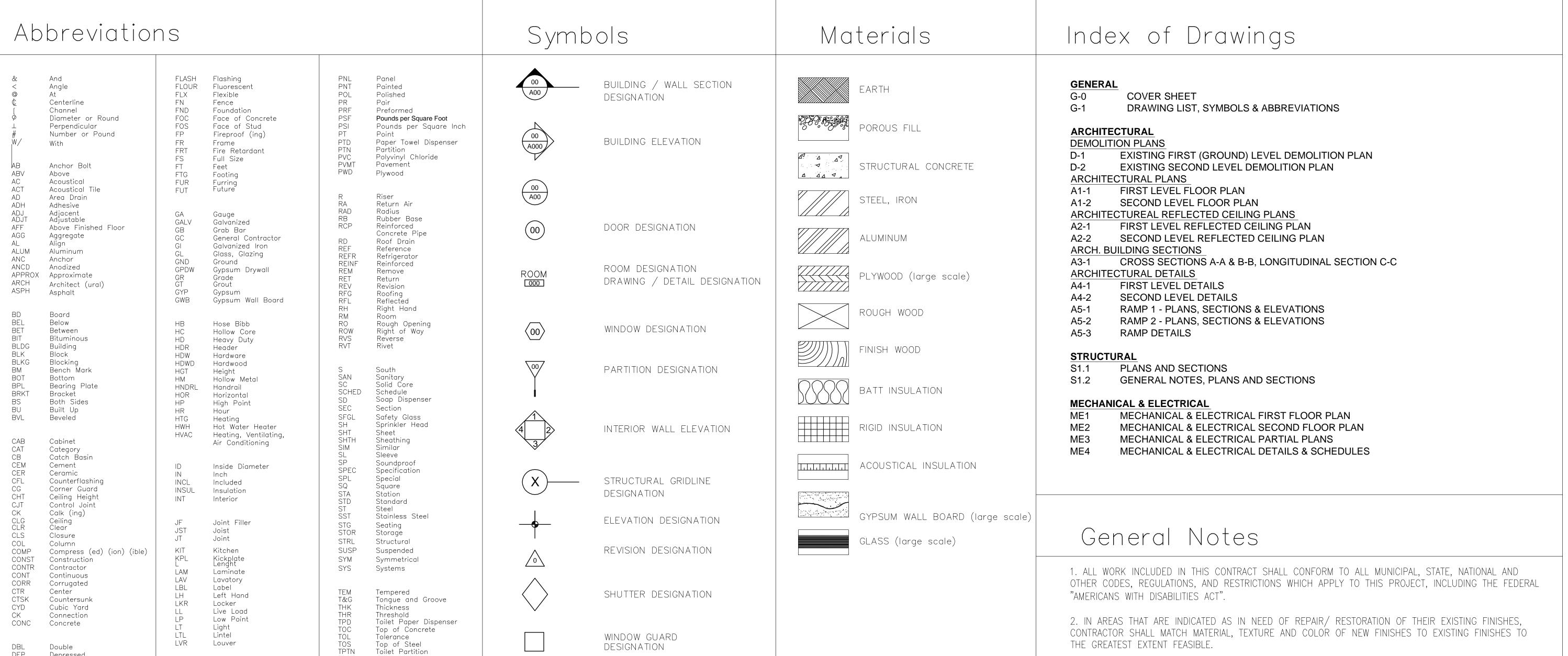
· BENNETT ENGINEERING, INC.

MECHANICAL, ELECTRICAL, F.P. & PLUMBING ENGINEERING P.O. BOX 297, 7 BENNETT ROAD FREEPORT, ME 04032 TEL: 207-865-9475 FAX: 207-865-1800

· BECKER STRUCTURAL ENGINEERS, INC. ·

STRUCTURAL ENGINEERING
75 YORK STREET
PORTLAND, ME 04101-4550
TEL: 207-879-1838
FAX: 207-879-1822
www.beckerstructural.com

AUGUST 2007
ISSUED FOR CONSTRUCTION



GRID CENTERLINE

UNSEEN ELEMENT

ABOVE OR BELOW

DRAWING BREAKLINE

EXISTING FENCE

NORTH ARROW

PROPERTY OR BOUNDARY LINE

2 0 2 4 6 8ft

Toilet Partition

Transom

TSL

UNF

VPB VERT

VEST

VG

VIN VNR

VRM

WD WG

WSCT

Top of Slab

Top of Wall

Unfinished

Urinal

Varnish

Vinyl Base

Vestibule

Vermiculite

Wood Base

Wire Glass

Wall Hung

Wire Mesh

Waterproof

Waterstop

Wainscot

Weight

Working Point

Water Resistant

Woven Wire Fabric

Window

Without

Vinyl Tile

Vinyl

Vapor Barrier

Vertical Grain

DEP

DEPT

DIAG

DIAM

DIM

DISP

DIV

DTL

DWG DWR

ELEC

EMER

ENCL

EQ

EST

EWC

EXH

EXP

EXT

FIN

EQPT

Depressed

Diagonal

Diameter

Dimension

Dispenser

Demountable

Dampproffing

Dovetail Anchor

Expansion Bolt

Expansion Joint

Electrical Panel Board

Electric Water Cooler

Each Face

Elevation

Electrical

Emergency

Enclosure

Equipment

Estimate

Exhaust

Exposed

Fire Alarm Fabrication

Fasten (er)

Fiberboard

Floor Drain

Fiberglass

Flat Head

Finish (ed)

Fire Extinguisher

Fire Hose Cabinet

Fire Extinguisher Cabinet

Finished Floor Elevation

Flathead Machine Screw

Flathead Wood Screw

Equal

Downspout

Drawing

Drawer

East

Each

Division

Department

Double Hung

MATL

MAX

MBR

MED

MFG

МН

MIN

MIR

MISC

MLD

MΤ

NAT

OC

OD

OFF

OHMS

OHWS

OPH

OPG

PED

PERF

PLF

PLAM

PLAS

OPP

MULL

MECH

Material

Member

Medium

Manhole

Minimum

Mirror

Molding

Mullion

North

Natural

Number

Nominal

Coefficient

On Center

Overhead

Opening

Opposite Ounce

Paving

Pedestal

Perforated

Prefinished

Plaster

PLBG Plumbing

Prefabricated

Plastic Laminate

Office

Not to Scale

Not in Contract

Noise Reduction

Noise Reduction

Outside Diameter

Opposite Hand

Precast Concrete

Pounds per Cubic Foot

Pounds per Lineal Foot

Ovalhead Machine Screw

Ovalhead Wood Screw

Millwork

Maximum

Mechanical

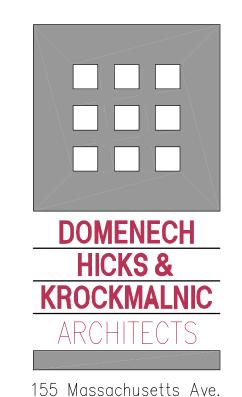
Membrane

Manufacturer

Miscellaneous

Mount (ed)

- THE GREATEST EXTENT FEASIBLE.
- 3. CEILING WORK REQUIRING ACCESS TO INTERSTITIAL SPACES TO BE PERFORMED WITHOUT ADVERSLY AFFECTING EXISTING EQUIPMENT AND CONDUITS/PIPES LOCATED WITHIN THOSE SPACES. IF DURING THE DEMOLITION/REMOVAL PHASE OF THE PROJECT THE CONTRACTOR DISCOVERS ELECTRICAL OR PLUMBING LINES THAT ARE PART OF THE BUILDING SYSTEM, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THIS SYSTEM IN WORKING ORDER AT ALL TIMES. CONTRACTOR SHALL NOTIFY THE AIRPORT PERSONNEL RESPONSIBLE FOR THESE SERVICES.
- 4. CONTRACTOR TO COORDINATE WORK ALONG THE EAST BOUNDARY OF THE FIRST LEVEL OF THE NEW FIRST FLOOR SLAB WITH A RESTAURANT INTERIOR RENOVATION PROJECT, SEPARATE FROM THIS CONTRACT.
- 5. ALL MATERIALS AND EQUIPMENT THAT ARE SCHEDULED FOR DEMOLITION SHALL BE REMOVED FROM SITE AND DISPOSED OFF PROPERLY. CONFORM TO LOCAL AND STATE REQUIREMENTS FOR REMOVAL AND DISPOSAL OF CONSTRUCTION MATERIAL. CONTRACTOR TO COORDINATE POTENTIAL FOR SALVAGING DEMOLITION MATERIAL WITH FACILITIES MANAGEMENT.
- 6. CONTRACTOR TO PROTECT ALL ADJACENT SPACE, SURFACES, STRUCTURE, EQUIPMENT, FURNISHINGS, AND UTILITIES FROM DAMAGE AND INTERRUPTION OR SOILING DUE TO WORK UNDER THIS CONTRACT. RESTORE OR REPLACE AS REQUIRED ALL ADJACENT WORK SOILED OR DAMAGED DUE TO WORK UNDER THIS CONTRACT. FOLLOW REQUIREMENTS BY THE JETPORT FOR SEPARATING THE WORK AREA FROM THE PUBLIC DURING CONSTRUCTION.
- 7. ALL WOOD COMPONENTS (INCLUDING BUT NOT LIMITED TO FRAMING MILLWORK, TRIM, AND BLOCKING) SHALL BE FIRE-TREATFD.
- 8. SEAL AND CAULK AROUND ALL PENETRATIONS, CRACKS AND CREVICES AND ANY OPENINGS CAPABLE OF HARBORING INSECTS/RODENTS.
- 9. THE GENERAL CONTRACTOR MUST COORDINATE WITH THE BUILDING FACILITIES MANAGER ALL ACTIVITIES INCLUDING BUT NOT LIMITED TO WORK WHICH WILL GENERATE EXCESSIVE NOISE AND MODIFICATION TO UTILITIES. WORK MUST NOT INTERFERE WITH EXISTING SMOKE DETECTORS, ALARMS OR BUILDING SYSTEM MANAGEMENT. NOR SHALL IT INTERFERE WITH ENPLANING OR DEPLANING PASSENGERS. AIRPORT VISITORS AND PERSONNEL.
- 10. ALL DIMENSIONS IN DEMOLITION PLANS SHALL BE VERIFIED IN FIELD
- 11. ALL DIMENSIONS ARE NOMINAL, UNLESS OTHERWISE INDICATED.



Boston, MA 02115 617-267-6408 Fax 617-267-1990

ISSUED FOR CONSTRUCTION

CITY OF PORTLAND PORTLAND, MAINE

DEPARTMENT OF WATERFRONT AND TRANSPORTATION



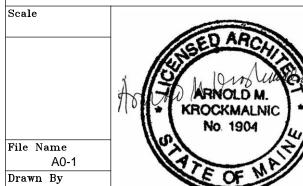
PORTLAND INTERNATIONAL **JETPORT**

TERMINAL PASSENGER CIRCULATION **IMPROVEMENTS**

1001 WESTBROOK ST., PORTLAND, MAINE

No.	Date	Revision	

DRAWING LIST, SYMBOLS NOTES & ABBREVIATIONS

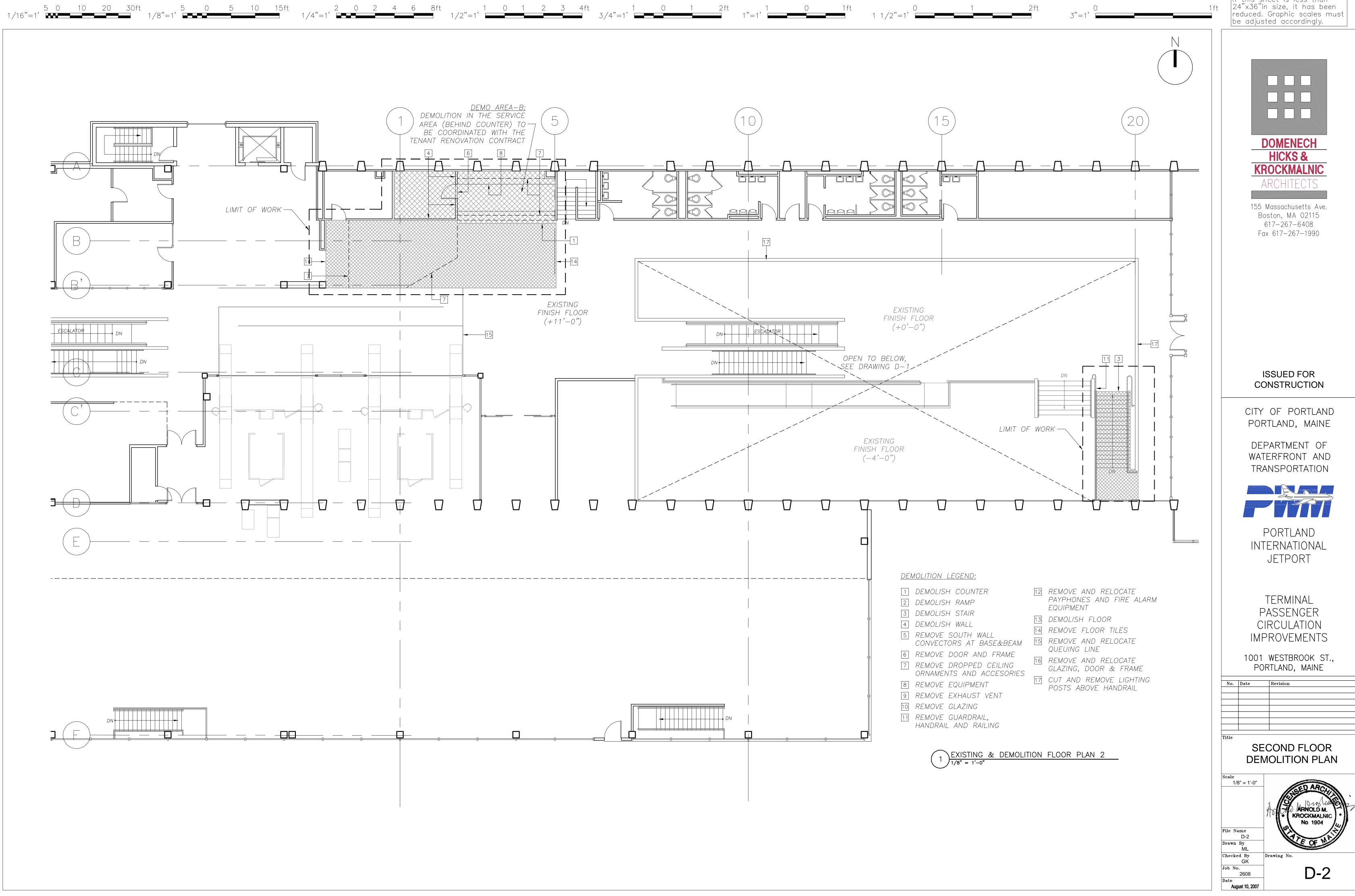


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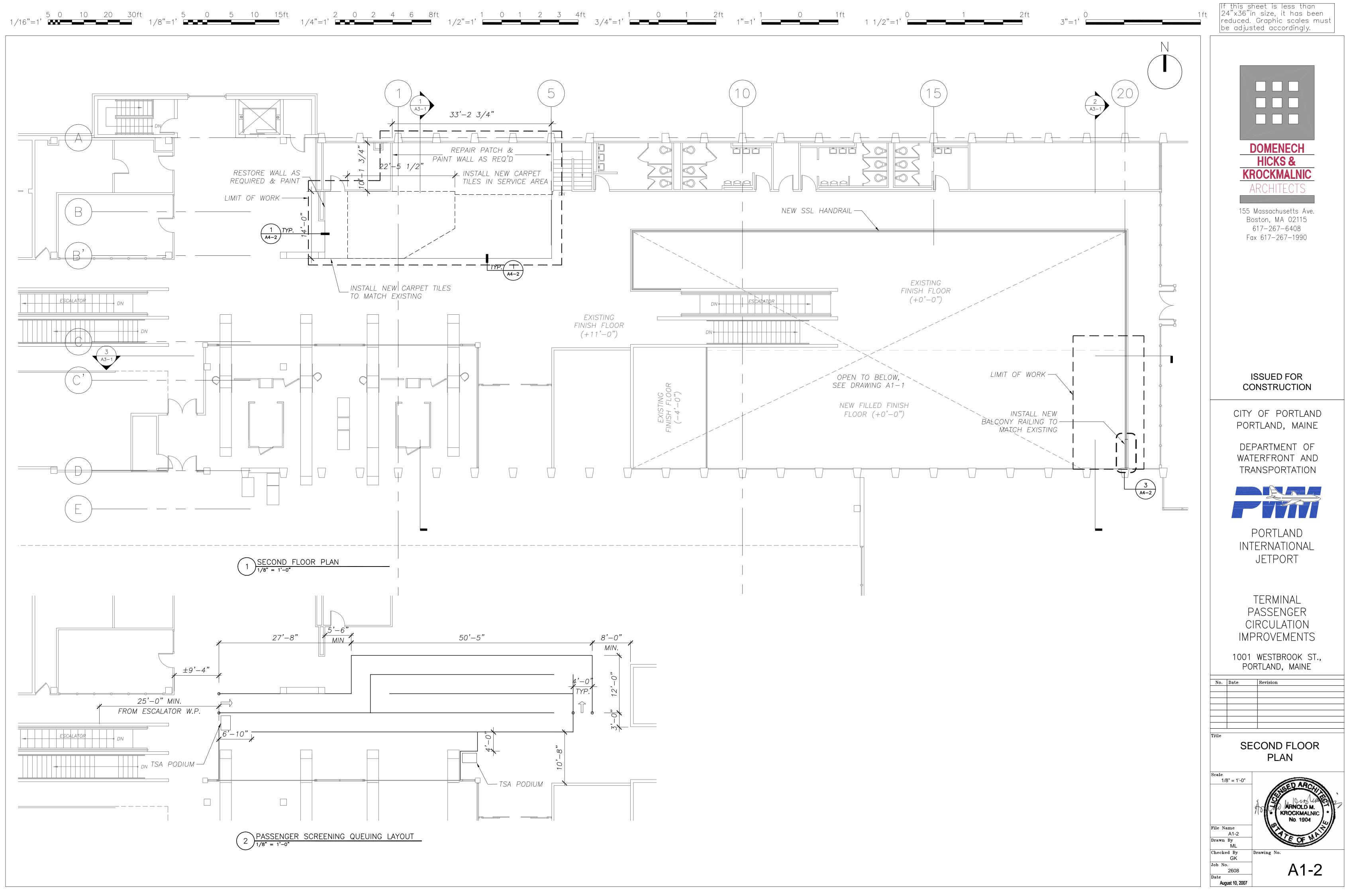
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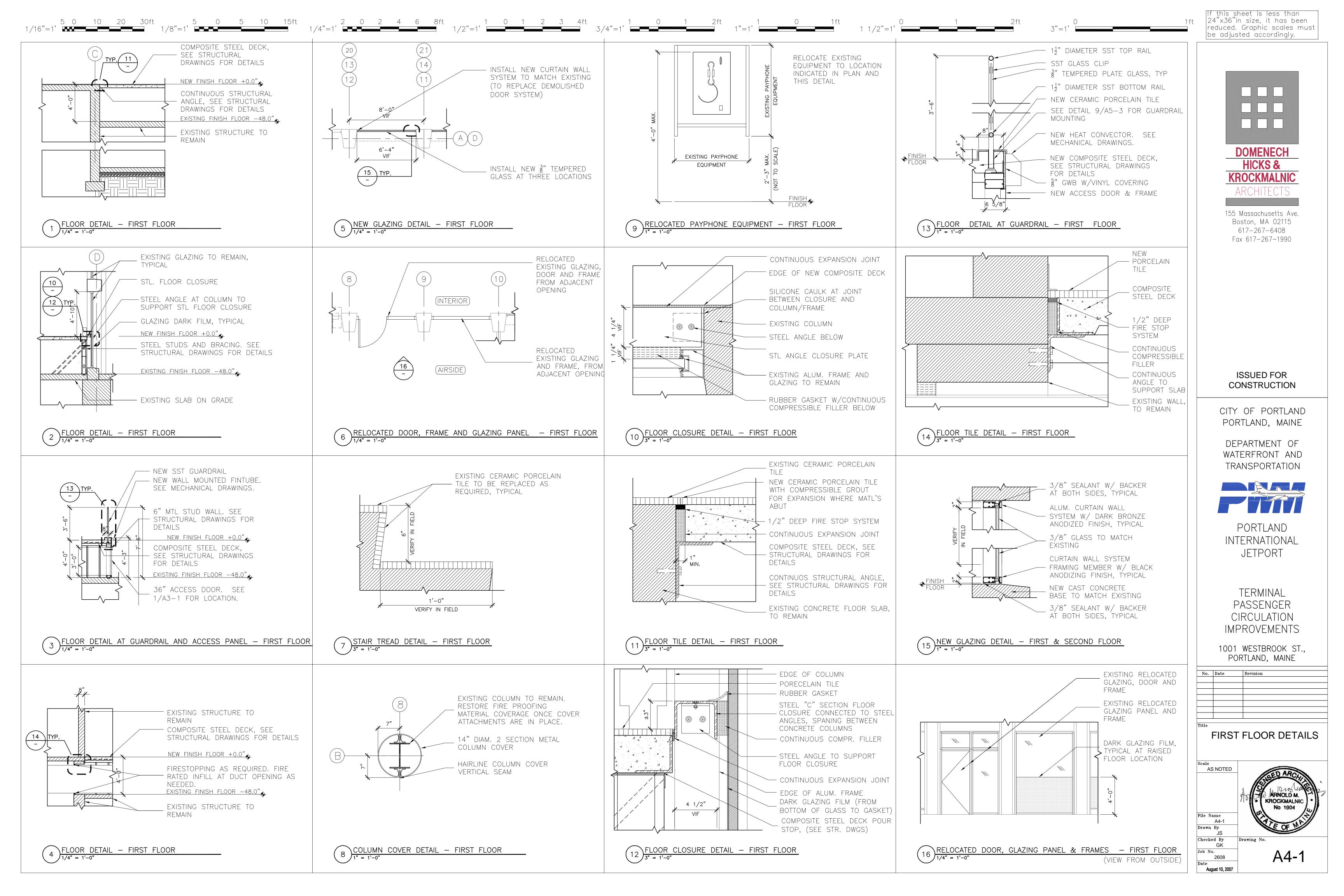


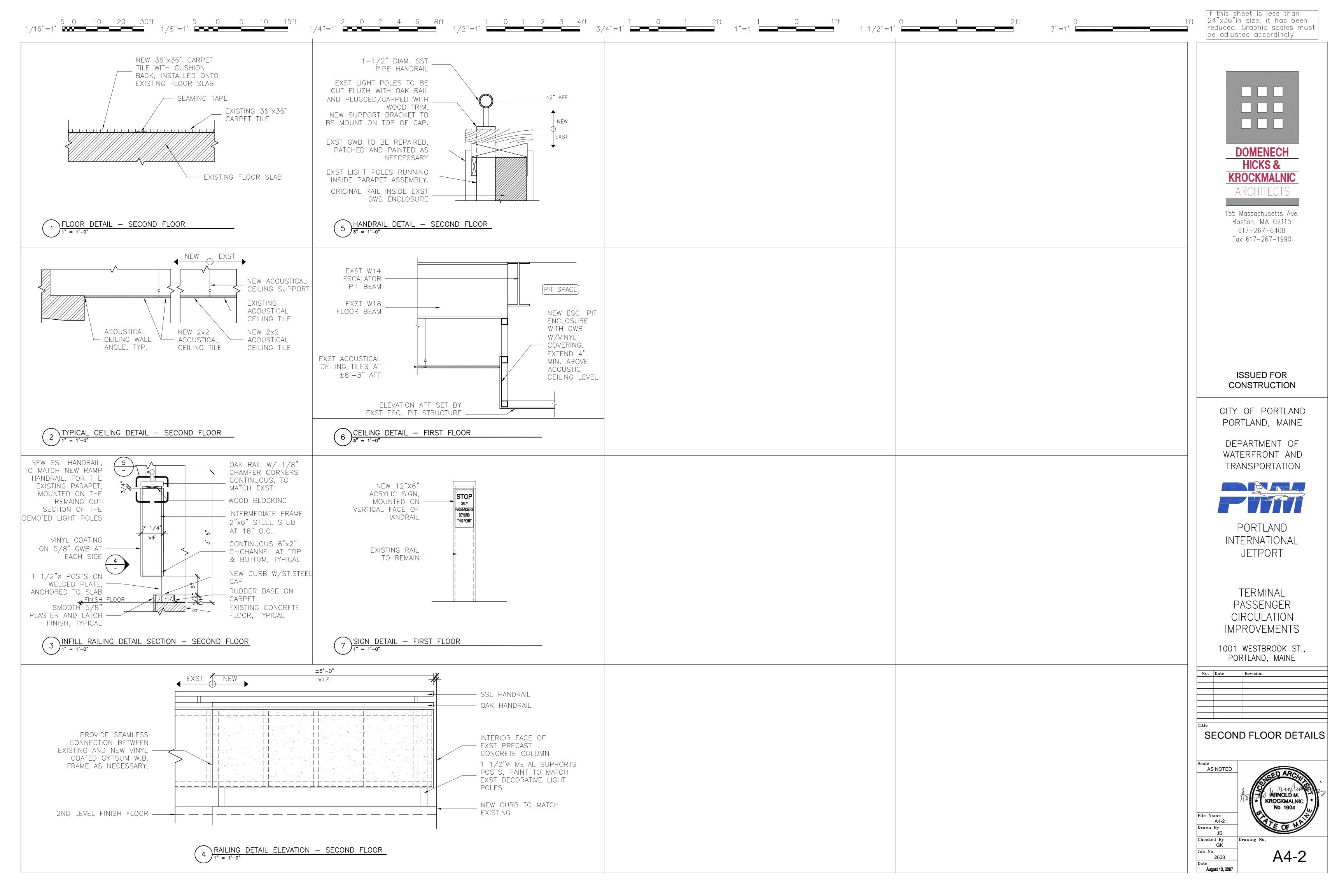
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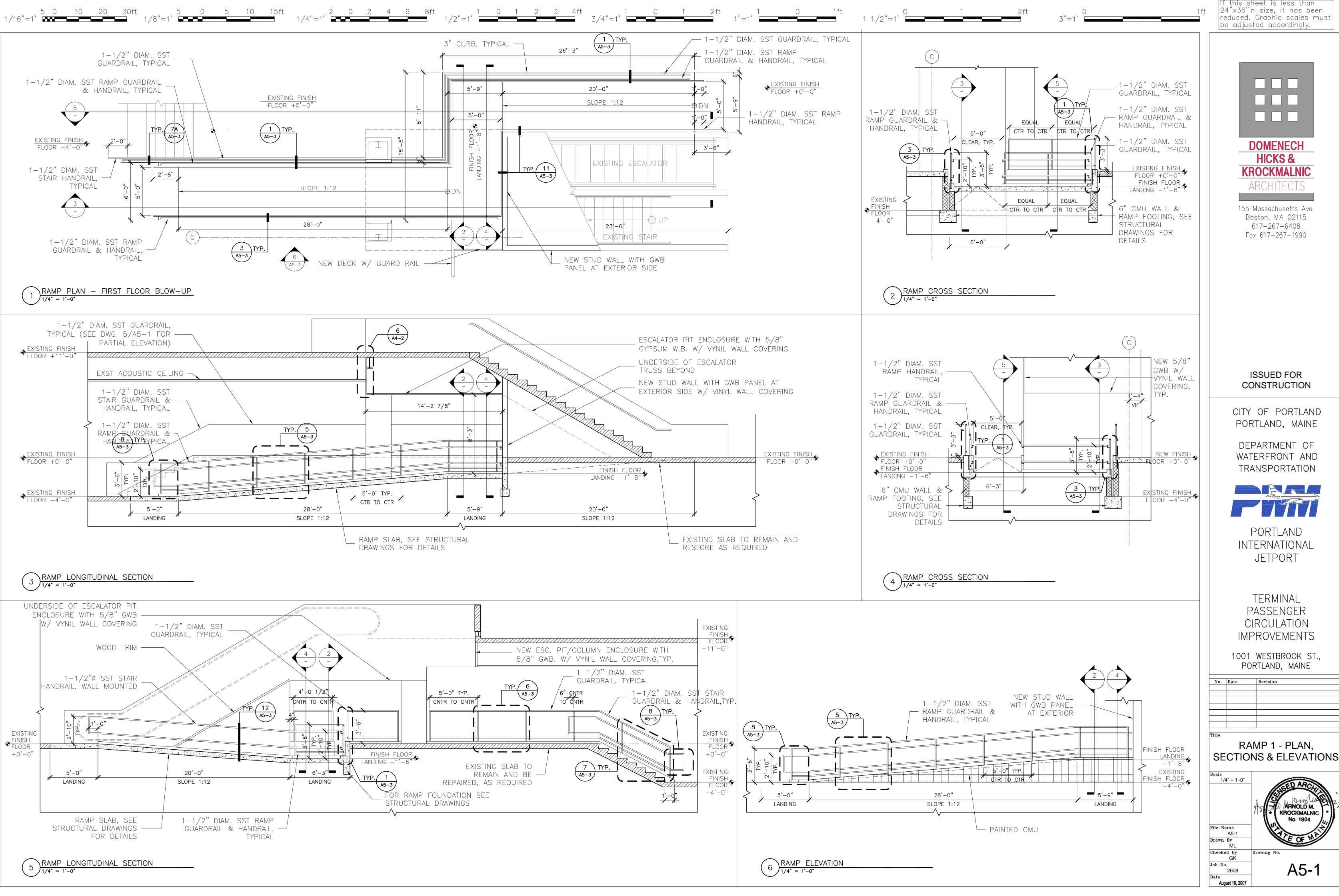
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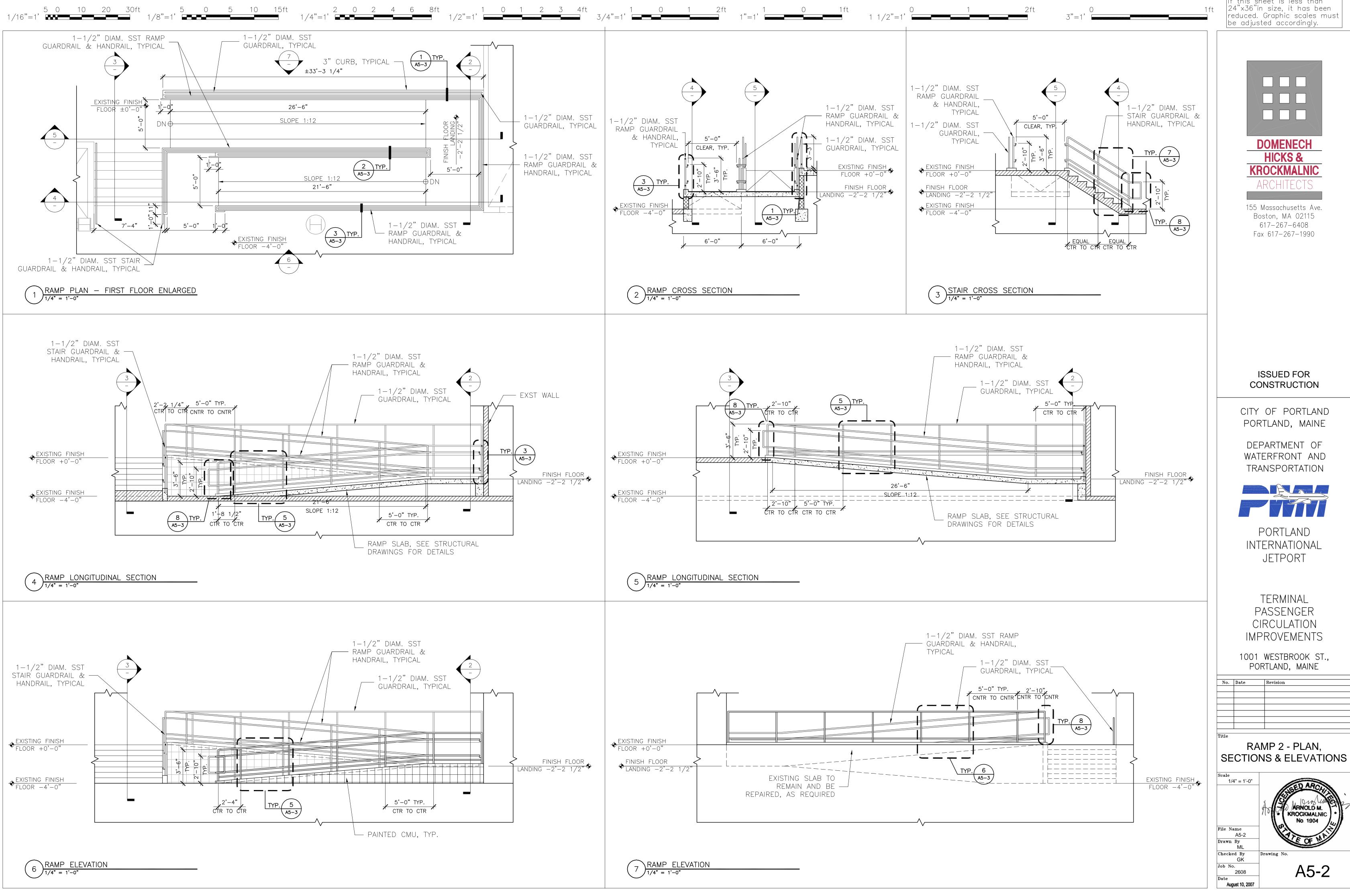






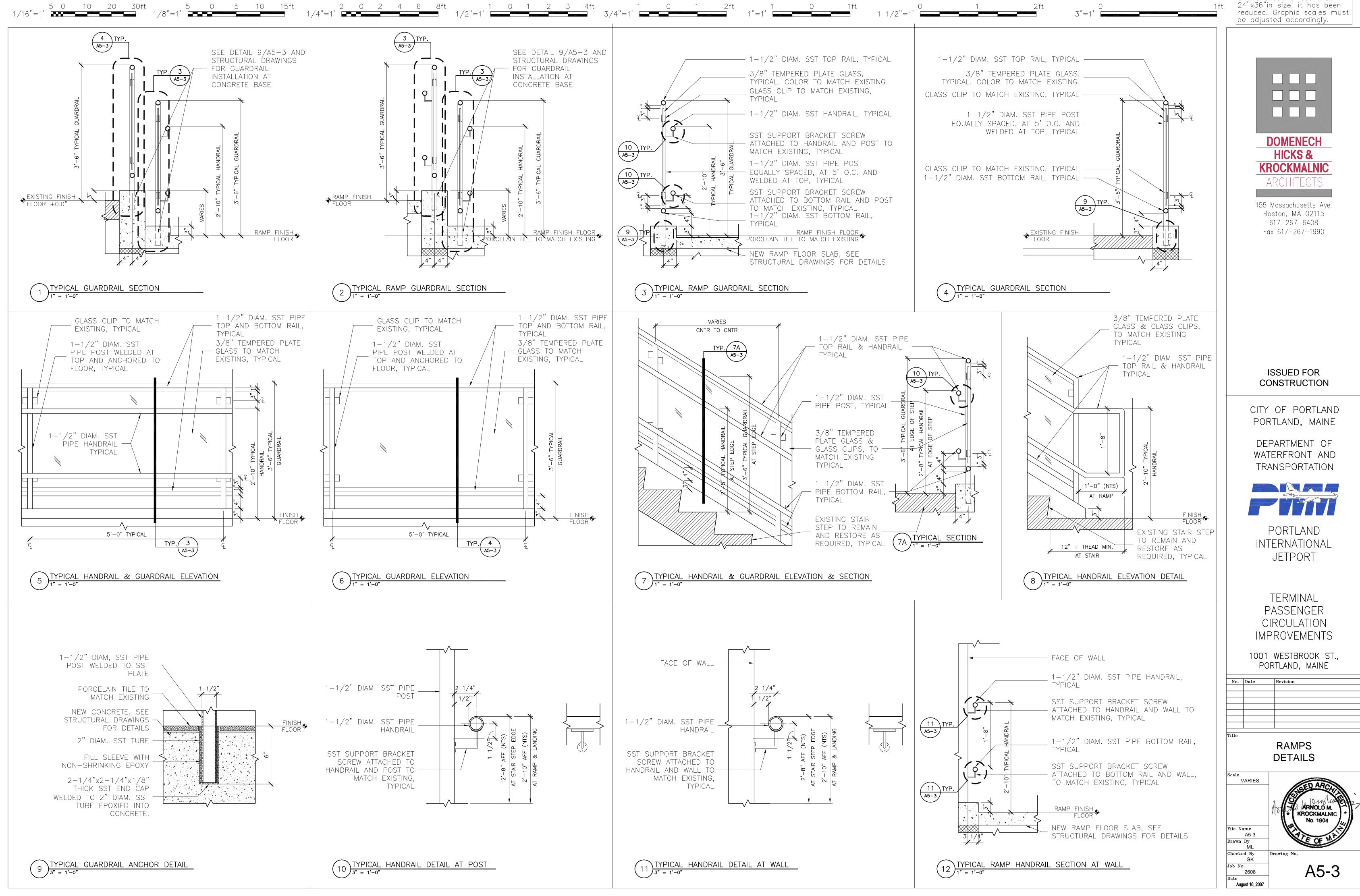
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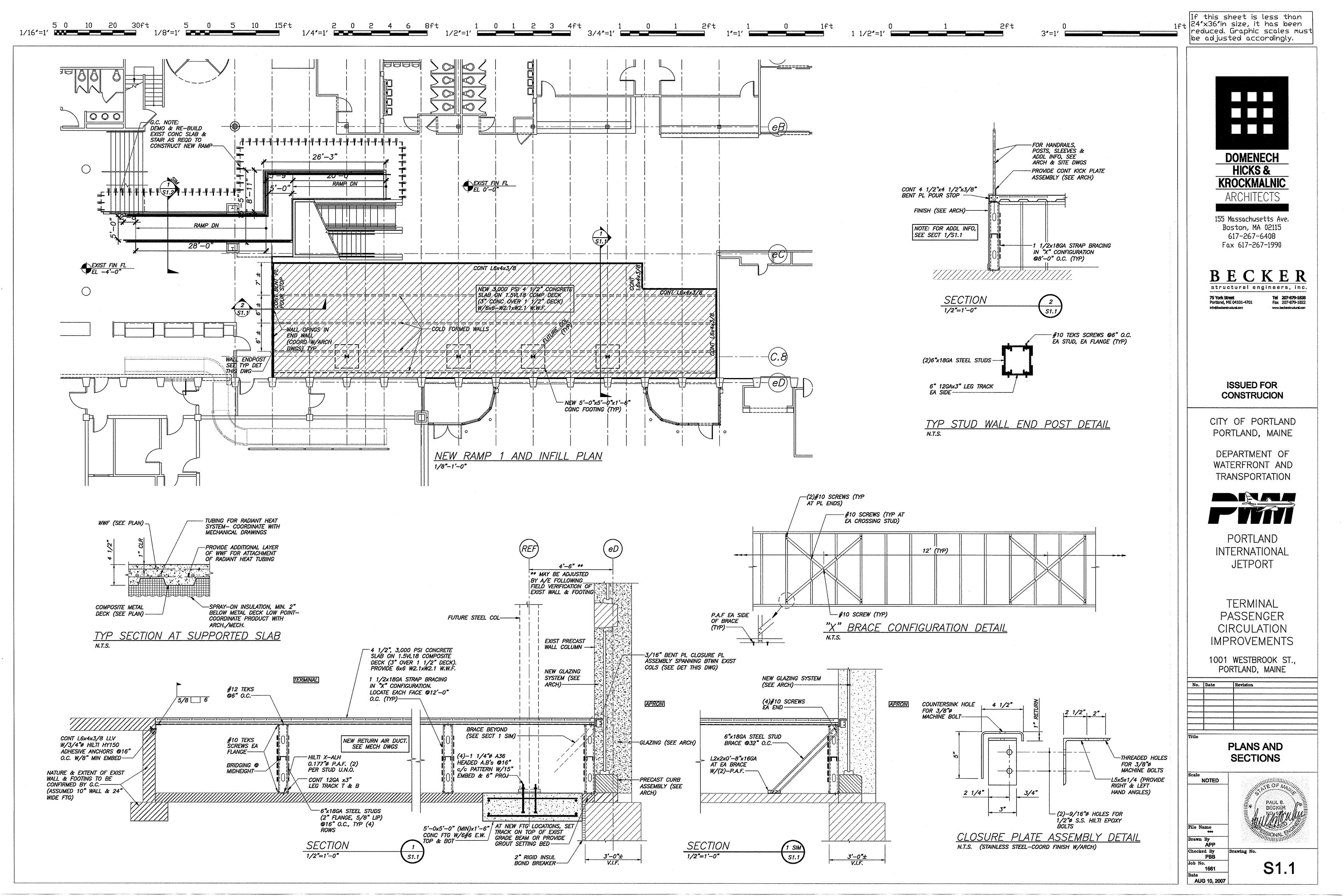
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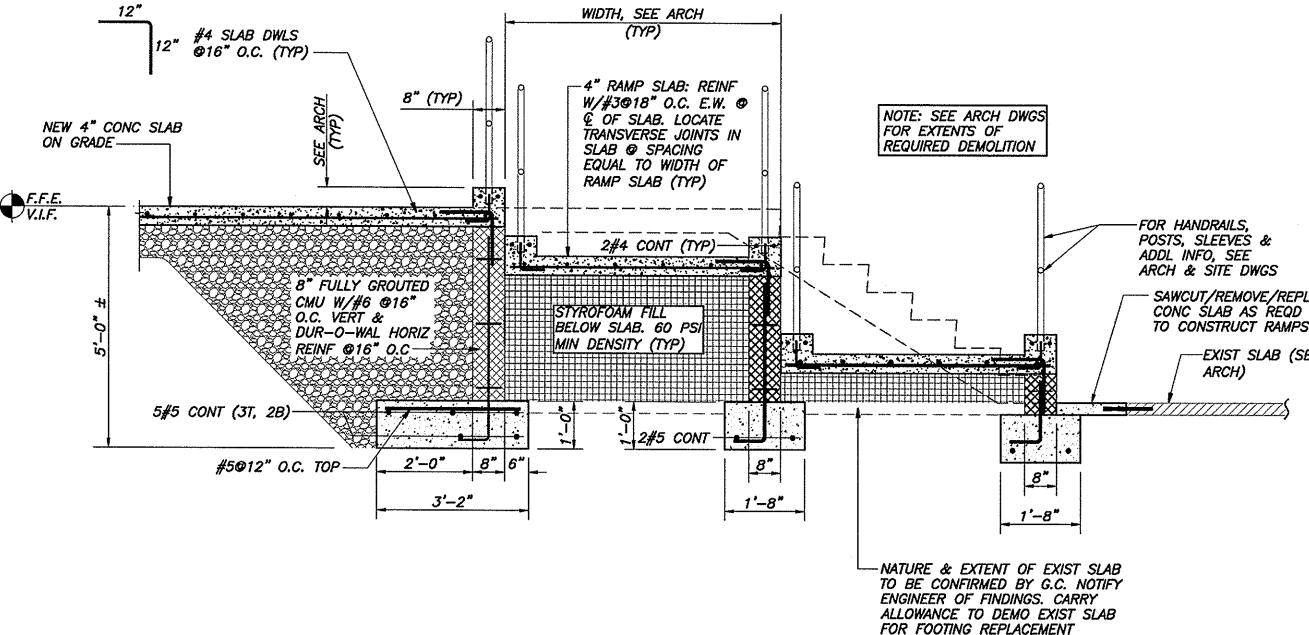
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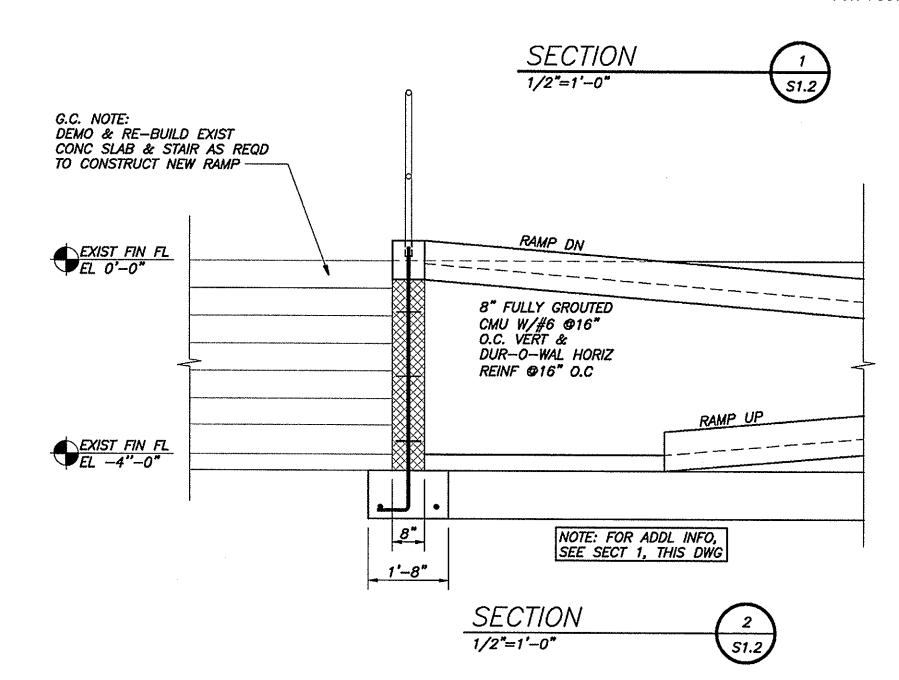


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GENERAL NOTES

- 1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- 2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. CONSULT THESE DRAWINGS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS. AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- 4. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE STRUCTURAL ENGINEER. THE STRUCTURAL ENGINEER RESERVES THE RIGHT TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
- 6. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.
- 7. IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2003 EDITION, SECTION 1704.1). A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR PERMIT ISSUANCE BY THE LOCAL CODE OFFICIAL. THIS STATEMENT SHALL INCLUDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, THE INSPECTIONS TO BE PERFORMED AND A LIST OF THE INDIVIDUALS, APPROVED AGENCIES AND FIRMS INTENDED TO BE RETAINED FOR CONDUCTING SUCH INSPECTIONS.
- 8. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS

- 1. BUILDING CODE: INTERNATIONAL BUILDING CODE, 2003 EDITION ASCE 7-02 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
- 2. DESIGN FLOOR LIVE LOADS: PUBLIC ASSEMBLY SPACE: 100 PSF

CONCRETE NOTES

- 1. CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE". LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (248) 848-3800.
- 2. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. U.N.O. ADDITIONAL CONCRETE MIX PERFORMANCE DATA INCLUDING AIR CONTENT, WATER-CEMENT RATIO, AIR CONTENT, AGGREGATE SIZE, SLUMP, ETC. HAS BEEN INCLUDED IN THE PROJECT SPECIFICATIONS. SEE THE SPECIFICATIONS
- 3 REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315. LATEST EDITION.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS.
- 5. FIBER REINFORCEMENT SHALL BE TYPE III SYNTHETIC VIRGIN HOMOPOLYMER POLYPROPYLENE FIBERS CONFORMING TO ASTM C1116.
- 6. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 - A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH, 3.0" B) FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER. 1.5" C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER. 1.0"
- 7. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPLICES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPLICES AS FOLLOWS: #3:30"; #4:40"; #5:48"; #6: 56"
- 8. WELDING OF REINFORCEMENT IS NOT PERMITTED.
- 9. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS TYPICAL DETAILS. NO PENETRATIONS SHALL BE MADE THROUGH FOOTINGS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
- 10. CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. OMISSIONS. ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMITTAL OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED. DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE BEAMS/GRADE BEAMS SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
- 11. ANCHOR RODS SHALL BE HEADED RODS CONFORMING TO ASTM F1554. GRADE 36 KSI WELDABLE STEEL, UNLESS NOTED OTHERWISE ON DRAWINGS. ANCHOR RODS THAT ARE TO BE IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED
- 12. ALL GROUT BENEATH UNLEVEL STUD BEARING AREAS SHALL BE "5-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP.
- 13. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE FLUCTATIONS, AND TO OBTAIN THE SPECIFIED SLAB ELEVATION AT THE FLATNESS AND LEVELNESS INDICATED.

MASONRY NOTES

- 1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1—LATEST.
- 2. ALL CONCRETE MASONRY UNITS SHALL BE ASTM C90 GRADE N, TYPE I STANDARD WEIGHT BLOCKS INCLUDING STRETCHERS AND CORNER BLOCKS. MINIMUM PRISM STRENGTH OF BLOCK SHALL BE F'M = 1500 PSI IN 28 DAYS.
- 3. MORTAR SHALL CONFORM TO ASTM SPECIFICATION C270, TYPE M OR S
- 4. GROUT SHALL CONFORM TO ASTM-C476
- 5. REINFORCING SHALL BE BILLET STEEL CONFORMING TO ASTM A615. GRADE 60
- 6. HORIZONTAL JOINT REINFORCING SHALL BE DUR-O-WAL TRUSS DESIGN, STANDARD CLASS MILL GALVANIZED WITH 3/16" DIAMETER SIDE RODS AND 9 GAUGE CROSS TIES. UNO. REINFORCING SHALL BE PLACED IN MASONRY WALLS AT EVERY SECOND BLOCK
- 7. CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED. PROVIDE FULL MORTAR COVERAGE ON ALL WEBS AND FACE SHELLS. PROVIDE CORNER BLOCKS AND END BLOCKS TO FINISH ALL 90 DEGREE CORNERS
- 8. STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS. PROVIDE CORNER BARS TO MATCH HORIZONTAL
- 9. CELLS TO BE GROUTED SHALL BE 2-CELL BLOCK. ALIGN CELLS TO MAINTAIN A CLEAR UNOBSTRUCTED, CONTINUOUS VERTICAL CHASE. CELLS MUST BE KEPT CLEAN OF PROTRUSIONS OR FINS OF MORTAR. FILL CELLS OF MASONRY UNITS AND WALL CAVITIES WHERE INDICATED WITH 2500 PSI GROUT. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS SHALL BE 4'-0". HIGH LIFT GROUTING SHALL CONFORM TO CODE REQUIREMENTS WITH A MINIMUM CEMENT CONTENT OF 8 SACKS PER CUBIC YARD. SUPPORT ALL VERTICAL BARS IN CENTER OF GROUTED CELLS WITH VERTICAL BAR POSITIONER.
- 10. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUTED CELLS.

METAL DECK

- 1. THE METAL ROOF AND FLOOR DECK SHALL BE FORMED OF STEEL SHEETS CONFORMING TO ASTM STANDARD A611.
- 2. FLOOR AND ROOF DECK SHALL BE AS NOTED ON THE DRAWINGS (OR EQUIVALENT).
- 3. FOR DECK ATTACHMENTS, PENETRATIONS AND ACCESSORIES, REFER TO SPECIFICATIONS.

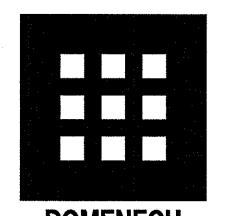
COLD FORMED FRAMING NOTES

- 1. PRODUCTS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF AISI SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, 1996 EDITION & 1999 SUPPLEMENT, AWS SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES, D1.3, ASTM 653 STANDARD SPECIFICATION FOR SHEET STEEL, ZINC (GALVANIZED) OR ZINC-IRON ALLOY-COATED (GALVANIZED) BY THE HOT DIP PROCESS AND ASTMC-955 STANDARD SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL STEEL STUDS, RUNNER (TRACK) AND BRACING AND BRIDGING, FOR SCREW APPLICATION OF GYPSUM BOARD AND METAL PLASTER BASES.
- 2. FRAMING MATERIALS SHALL BE AS INDICATED ON THE DRAWINGS AS MANUFACTURED BY DIETRICH INDUSTRIES, INC. 500 GRANT ST., SUITE 2226, PITTSBURG, PA. 15219, (412) 281-2805. APPROVED EQUALS WILL BE CONSIDERED.
- 3. ALL GALVANIZED STUDS, TRACK, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-90 COATING MEETING ASTM C 955.
- 4. WALL BRIDGING AND SOLID BLOCKING SHALL BE PROVIDED TO BRACE STUDS AGAINST ROTATION. INSTALL WALL BRIDGING AND BLOCKING PER DETAILS THIS DWG.
- 5. SCREWS SHALL BE SELF DRILLING, SELF TAPPING, ZINC COATED AND NOT LESS THAN #10.
- 6. SCREW PENETRATION THROUGH JOINED MATERIALS SHALL NOT BE LESS

THAN THREE EXPOSED SCREW THREADS

- 7. PROTECTIVE COATINGS ON SCREW FASTENERS SHALL BE COMPATIBLE WITH LIGHT GAGE MATERIAL BEING JOINED
- 8. CONTRACTOR SHALL REFER TO INSTALLATION INSTRUCTIONS PUBLISHED BY THE SCREW MANUFACTURER AND ASTM C954 FOR MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS AND TORQUE REQUIREMENTS.
- 9. POWDER ACTUATED FASTENERS INTO STEEL SHALL BE HILTI ENP2-21L1-OR ENPH2-21 L15.
- 10. POWDER ACTUATED FASTENERS DESIGNATED 0.177" DIAMETER INTO CONCRETE SHALL BE HILTI X—ALH PINS AND SHALL NOT BE INSTALLED UNTIL FULL COMPRESSIVE STRENGTH IS OBTAINED. PROVIDE 1 1/2" MIN EMBEDMENT.
- 11. CONTRACTOR SHALL REFER TO INSTRUCTIONS PUBLISHED BY THE P.A.F. AND TAPCON MANUFACTURER FOR MINIMUM SPACING, EDGE DISTANCE AND CONCRETE EMBEDMENT AND ADDITIONAL INSTALLATION REQUIREMENT.
- 12. CUTTING OF COLD FORMED STEEL FRAMING SHALL BE BY SAW, SHEAR OR PLASMA CUTTING EQUIPMENT. OXYACETYLENE TORCH CUTTING IS NOT PERMITTED.
- 13. TEMPORARY BRACING SHALL BE PROVIDED AND REMAIN IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
- 14. TOP TRACKS SHALL BE CONTINUOUS. WHERE SPLICING OF TRACK IS NECESSARY BETWEEN STUD SPACING, A PIECE OF STUD SHALL BE PLACED BETWEEN ADJACENT TRACKS AND FASTENED BY WELDS OR SCREWS TO EACH SIDE OF THE TRACK, EACH END, UNO.
- 15. SPLICING OF FRAMING COMPONENTS, OTHER THAN TRACK, IS NOT PERMITTED.
- 16. PROVIDE CONTINUOUS BRIDGING AS SHOWN ON DRAWINGS.

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DOMENECH HICKS & **KROCKMALNIC** ARCHITECTS

155 Massachusetts Ave Boston, MA 02115 617-267-6408 Fax 617-267-1990

BECKER structural engineers, inc.

Portland, ME 04101-4701

Tel 207-879-1838 Fax 207-879-1822

ISSUED FOR CONSTRUCION

CITY OF PORTLAND PORTLAND, MAINE

DEPARTMENT OF WATERFRONT AND **TRANSPORTATION**



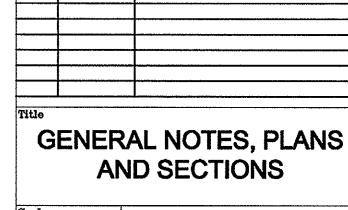
PORTLAND INTERNATIONAL **JETPORT**

TERMINAL PASSENGER CIRCULATION **IMPROVEMENTS**

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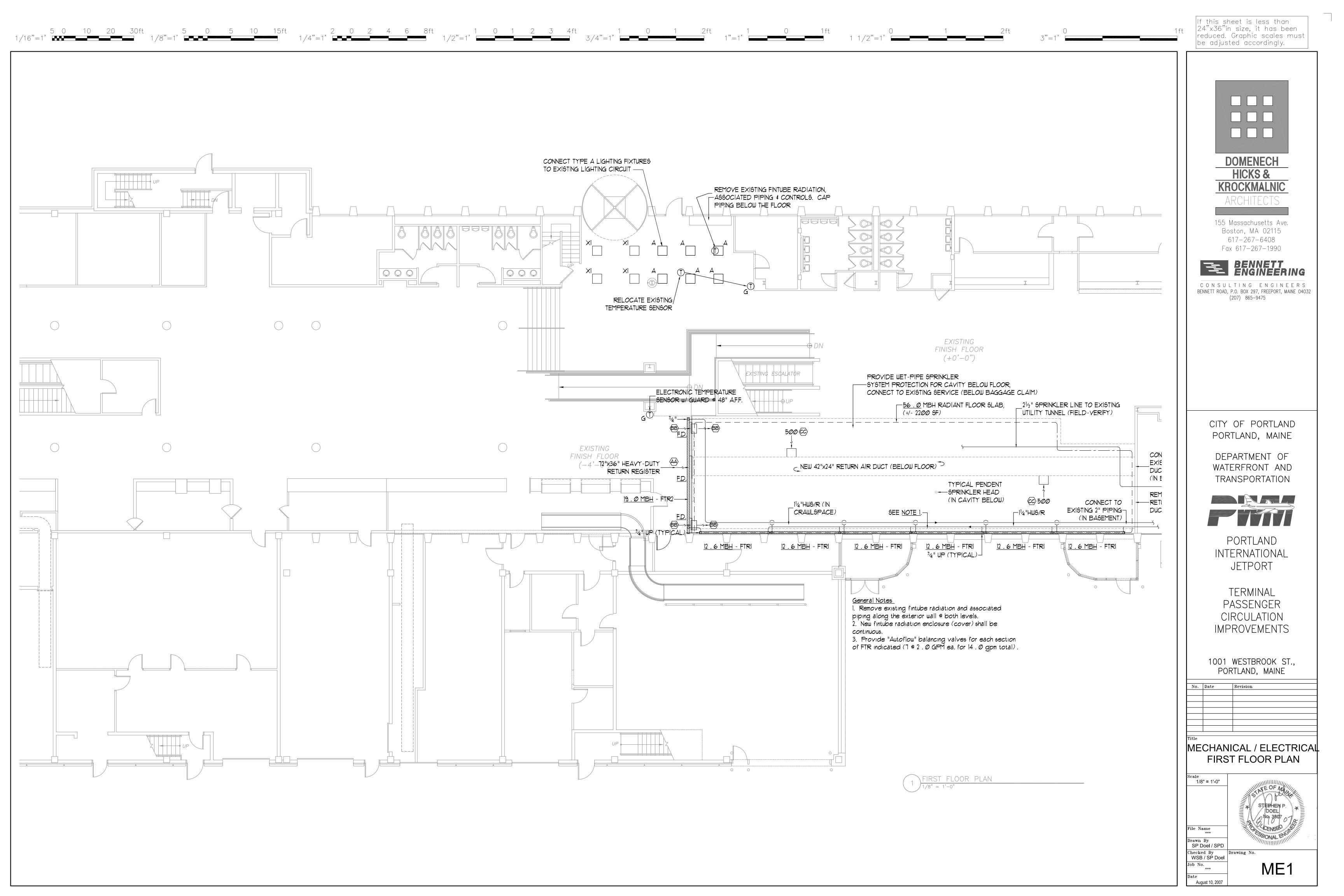
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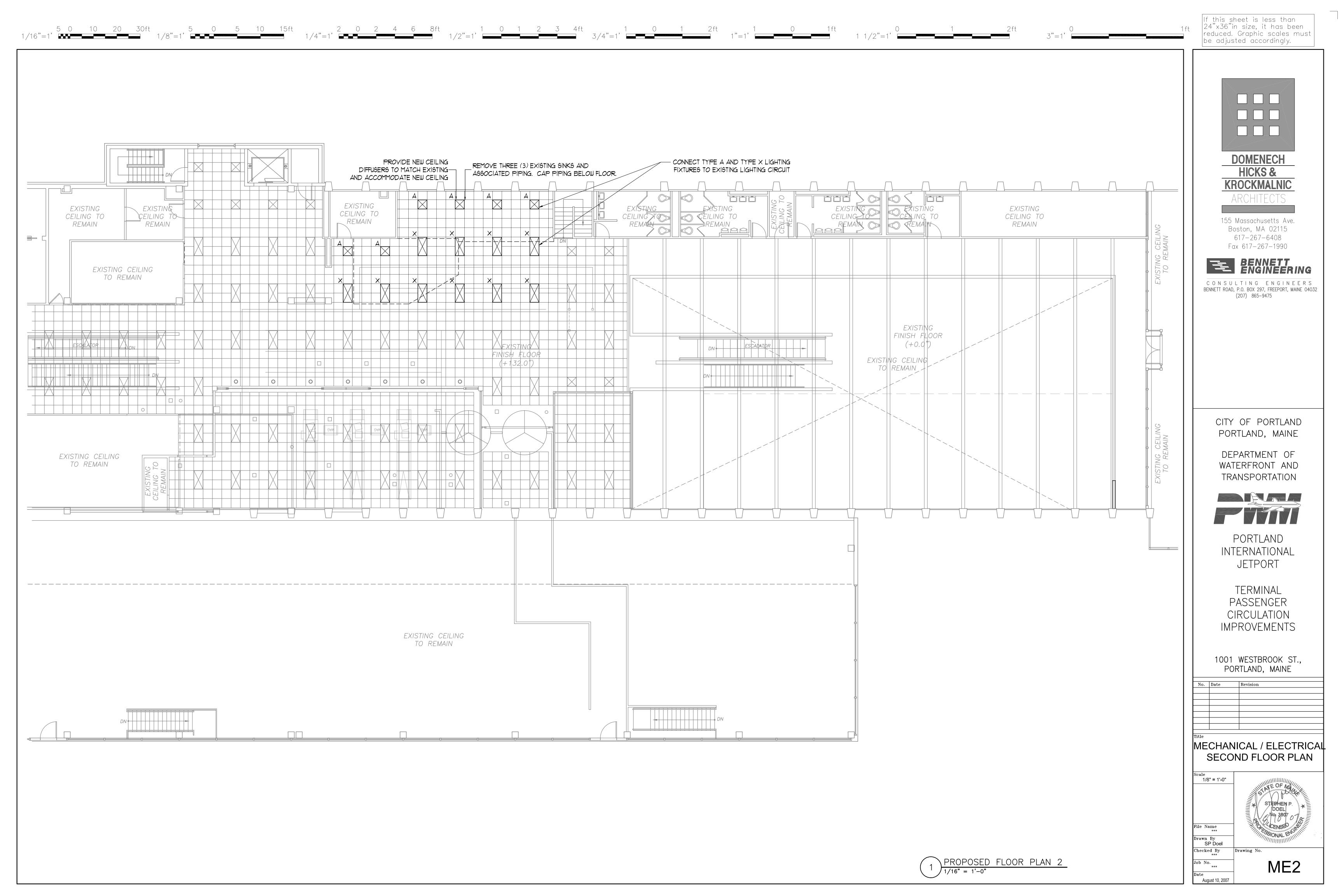
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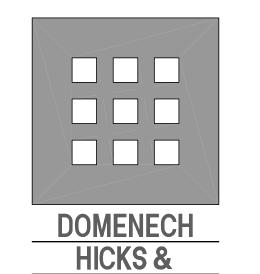


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KROCKMALNIC ARCHITECTS

155 Massachusetts Ave. Boston, MA 02115 617-267-6408 Fax 617-267-1990

BENNETT ENGINEERING

C O N S U L T I N G E N G I N E E R S BENNETT ROAD, P.O. BOX 297, FREEPORT, MAINE 04032 (207) 865-9475

CITY OF PORTLAND PORTLAND, MAINE

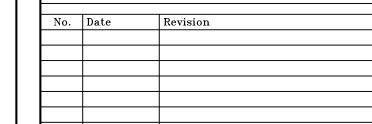
DEPARTMENT OF WATERFRONT AND TRANSPORTATION



PORTLAND INTERNATIONAL JETPORT

TERMINAL
PASSENGER
CIRCULATION
IMPROVEMENTS

1001 WESTBROOK ST., PORTLAND, MAINE



MECHANICAL / ELECTRICAL PARTIAL FLOOR PLANS

Scale 1/8" = 1'-0"

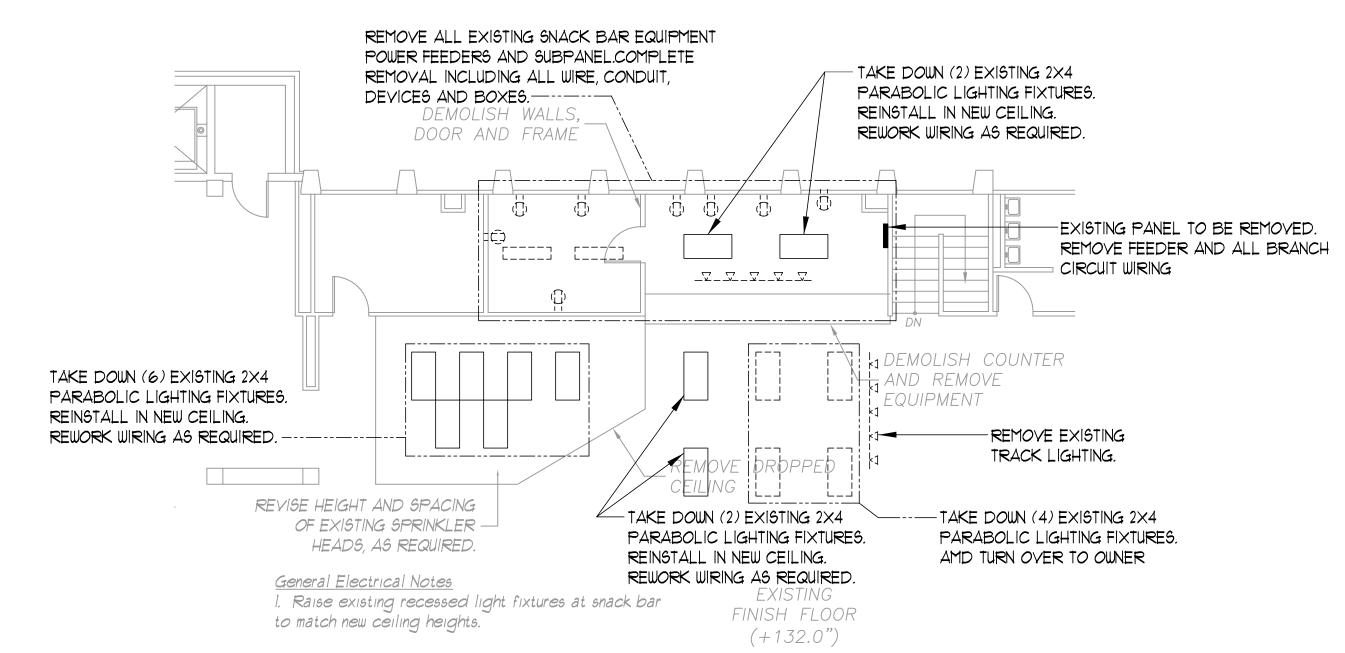
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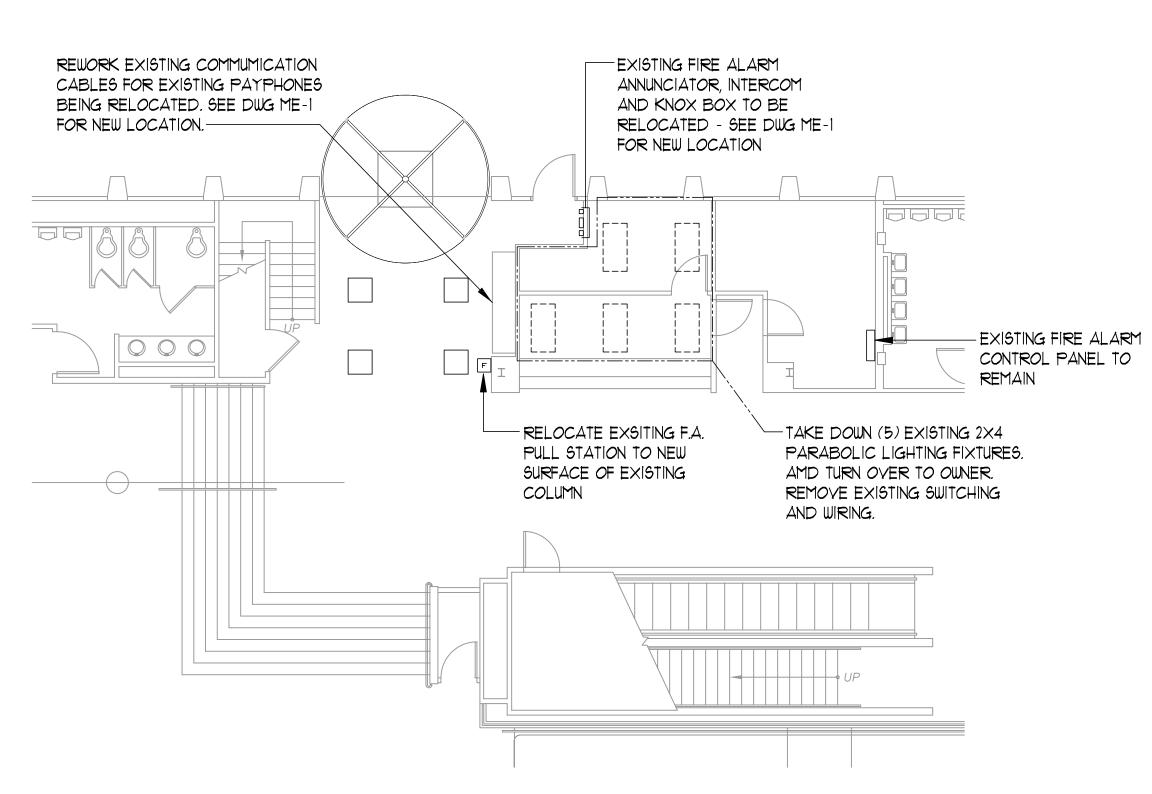
ME3

STEPHEN P DOEL No 3807 O



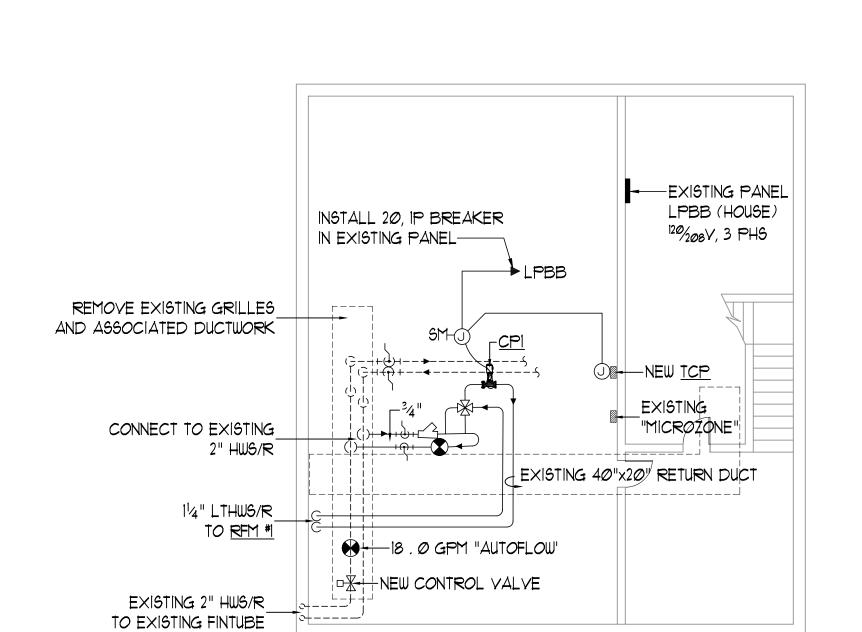
EXISTING SECOND FLOOR PARTIAL ELECTRICAL PLAN

SCALE 1/4"=1'-0"



EXISTING FIRST FLOOR PARTIAL ELECTRICAL PLAN

SCALE 1/4"=1'-0"



PUMP PERFORMANCE SCHEDULE													
TAG.	TAG RATE (GPM) HEAD IMPEL. 9IZE	IMPEL. RPM	MPEL. DOW	EFF %		ELECTR	ICAL REQ	UIREMENT	3	BASIS	OF DESIGN TAC)	
143		(FT.WG)	SIZE	IZE REIT	RETT EFF %	ETT 76	HP	BHP	VFD	AMPS	V/PH/HZ	5ERVICE	ARRANGEMENT
CPI	٦.5	15	2.8"	3450	-	. 12	-	-	-	120/1/60	RADIANT	CARTRIDGE	1L009

AIR DEVICE PERFORMANCE SCHEDULE										
TAG	PANEL	NECK	AIRFLOW	SPLOSS	THROW(L)	TUROUVE)	THROW(5) No ["BASIS	OF DESIGN" MET	<u>ALAIRE</u>
IAG S	SIZE(IN)	SIZE(IN)	SIZE(IN) (CFM)	(IN.WG.)		111100037		DUCT CONN.(IN)	PATTERN	MODEL
$\langle A \rangle$	-	72×36	6000	Ø.Ø1	-	-	30	SEE DWGS	1/2", 35°	HD-RH-OBDA
	-	12×36	400	0.05	-	-	30	SEE DWGS	1/2", 35°	HD-RH
60	-	16×12	400	0.05	-	-	3Ø	SEE DWGS	1/2", 35°	HD-RH-OBDA

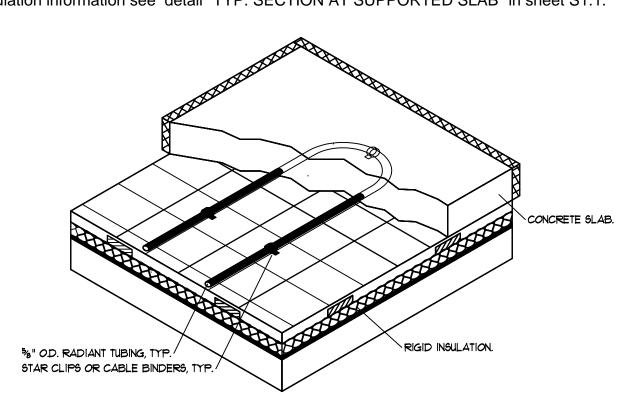
COI	CONVECTOR / FINTUBE PERFORMANCE SCHEDULE HEATING PERFORMANCE BASED ON 180°F AVERAGE WATER TEMP. 4 60°F ENTERING, AIR TEMPERATURE										
TAG	OUTPUT (MBH/FT)	PUT FLOW MOUNT'G, ENCLOSURE ENCLOSURE ELEMENT CONTROL BAS		INT'G. ENCLOSURE ENCLOSURE ELEMENT CONTROL		BASIS OF D	DESIGN STERLI	NG			
IAG	(MBH/FT)	PUT FLOW RATE (GPM)	HEIGHT(IN)	ENCLOSURE ENCLOSURE ELEMENT CON HEIGHT(IN) LENGTH(FT) LENGTH(FT) VA	VALVE	TUBE SIZE(IN)	FINS/FOOT	NO. OF TIERS	MODEL		
FTRI	0.95	2.0	-	6 ² 4"	**	*	٧l	3/4	5Ø	1	VB-PM
FTR2	0.95	2.0	-	11"	**	*	5	3/4	50	1	JVK-SII

* - SIZE ELEMENT TO MATCH HEAT OUTPUT INDICATED ON DRAWINGS. ** - ENCLOSURE SHALL BE RUN WALL-TO-WALL, EXCEPT AS OTHERWISE NOTED. Note See Architectural Drawings for mounting details.

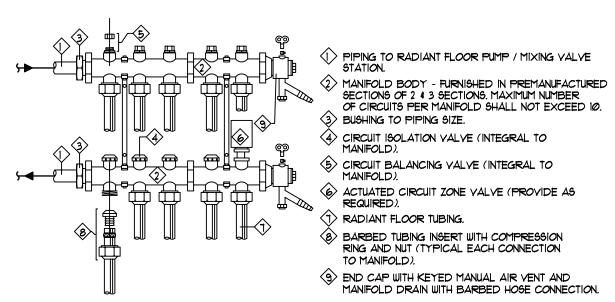
SLAB REINFORCEMENT, -5" THICK CONCRETE SLAB SEE STRUCTURAL DWGS \$" O . D . RADIANT TUBING \square RIGID INSULATION

SLAB CONSTRUCTION JOINT DETAIL NOTE - THIS DETAIL APPLIES ONLY FOR SEPARATE POUR CONSTRUCTION JOINTS, DO NOT USE FOR SAW CUT JOINTS.

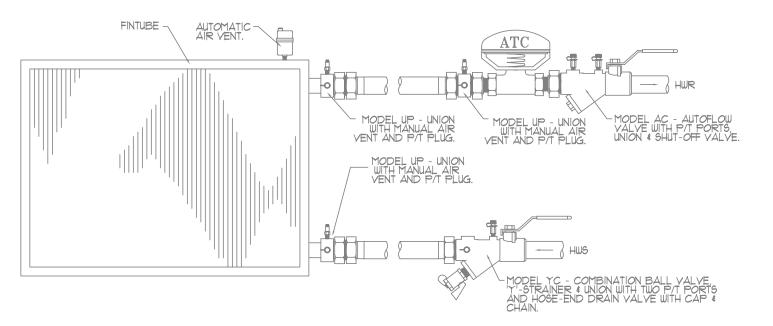
Details here are shown only for radiant tubing dimensioning. For actual structural details and for insulation information see detail "TYP. SECTION AT SUPPORTED SLAB" in sheet S1.1.



RADIANT PIPING SECTIONS NOTE - SEE ARCHITECTURAL & STRUCTURAL DRAWINGS FOR SLAB DETAILS.

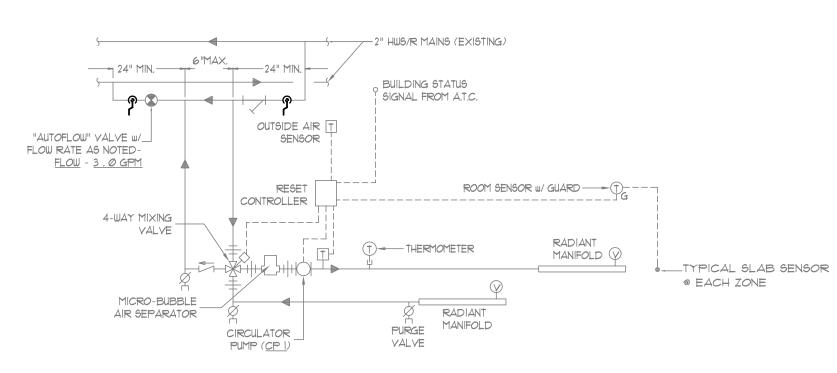


RADIANT FLOOR MANIFOLD



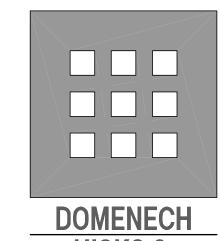
AUTOFLOW VALVE PIPING SCHEMATIC W/ 2-WAY VALVE

NOTE - MODEL NUMBERS BASED ON FLOW DESIGN INC. FOR PIPE SIZES 2" AND SMALLER. NOTE - DETAIL APPLIES TO FINTUBE RADIATION.



RADIANT FLOOR PIPING & CONTROL SCHEMATIC

	LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS						
Α	COLUMBIA #P4D22-231U1G-LS33-S-EU	(2) U-BENT 31W T8	2X2 PARABOLIC RECESSED IN GRID CEILING. (1) 2 LAMP ELECTRONIC BALLAST						
Х	X EXISTING 2X4 PARABOLIC TO BE REUSED — REINSTALL IN NEW CEILING								
X1	EXISTING 2X2 PARABOLIC TO REMAIN								



If this sheet is less than 24"x36"in size, it has been

be adjusted accordingly.

reduced. Graphic scales must

HICKS & KROCKMALNIC

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CITY OF PORTLAND PORTLAND, MAINE

DEPARTMENT OF WATERFRONT AND TRANSPORTATION



PORTLAND INTERNATIONAL **JETPORT**

TERMINAL PASSENGER CIRCULATION **IMPROVEMENTS**

1001 WESTBROOK ST., PORTLAND, MAINE

No.	Date	Revision
Title		
ME		CAL / ELECTRICAL AND SCHEDULES

As Noted Drawn By SP Doel Checked By

August 10, 2007

ME4

ELECTRICAL DETAILS