

GENERAL NOTES:

- THE NOTES ON THESE DRAWINGS ARE INTENDED TO BE USED AS OUTLINE SPECIFICATIONS FOR THIS PROJECT. THE REFERENCED STANDARDS ARE CONSIDERED TO BE PART OF THE WORK.
- THE REPAIRS TO THE STAIR TOWER HAVE BEEN DESIGNED TO RE-ESTABLISH THE STRUCTURAL INTEGRITY OF THE STRUCTURE AFTER THE REPAIRS ARE COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING RESTORATION. 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.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS AS DETERMINED BY THE ENGINEER.
- ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONS SAFETY AND HEALTH ACT.

DESIGN:

- BUILDING CODE: IBC 2009
- DESIGN LOADS: 100 PSF OR 300LB CONCENTRATED LOAD.
- DEFLECTION LIMIT: MAXIMUM L/360 OR 1/4"

PAINTING EXISTING STEEL:

- MAINTAIN ENVIRONMENTAL CONDITIONS (TEMP, HUMIDITY, AND VENTILATION) WITHIN THE LIMITS RECOMMENDED BY THE MANUFACTURER FOR OPTIMUM RESULTS. DO NOT APPLY COATINGS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.
- MANUFACTURER: ICI-DULUX/DEVCO COATINGS, STRONGVILLE, OH, 800-654-2616, WWW.ICIDULUXPAINTS.COM OR WWW.DEVCOCOATINGS.COM.
- EXISTING STEEL BEAMS, COLUMNS, AND MISC ITEMS.
 - 1ST COAT: DEVCO PRE-PRIME 167, RUST PENETRATING SEALER.
 - 2ND COAT: DEVCO BAR-RUST 235, EPOXY COATING
 - 3RD COAT: DEVCO DEVETHANE 379, POLYURETHANE FINISH
- COLD WEATHER NOTES:
 - PRE-PRIME 167 WILL NOT CURE AT TEMPS BELOW 50 DEGREES.
 - FOR TEMPS BELOW 50 AND HIGHER THAN 10 DEGREES SUBSTITUTE PRE-PRIME WITH BAR-RUST 235, TWO TOTAL COATS OF BAR-RUST 235.
 - PROVIDE COLD WEATHER ADDITIVE 070 TO DEVETHANE 379 FOR TEMPS DOWN TO 25 DEGREES F.
- PREPARATION: ALL SURFACES SHALL CONFORM TO MANUFACTURER'S RECOMMENDATIONS FOR SURFACE PREPARATION.

STAIR FRAMING NOTES:

MATERIAL:

- STRUCTURAL STEEL PLATES, SHAPES AND BARS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
- PIPE: ASTM A53 TYPE F OR TYPE S, GRADE A, STANDARD WEIGHT (SCHEDULE 40), UNLESS NOTED OTHERWISE.
- STRUCTURAL TUBING: CONFORM TO ASTM A500, GRADE B46.
- WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION. ELECTRODES SHALL CONFORM TO AWS E5.1, E70XX SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN). ALL WELDERS SHALL BE AWS CERTIFIED.
- FASTENERS: ALL FASTENERS SHALL BE HOT DIP GALVANIZED OR APPROVED EQUAL.
- ANCHOR BOLTS: PROVIDE HOT-DIP GALVANIZED.
- ALL STEEL FOR THE STAIR STRUCTURE SHALL BE HOT DIPPED GALVANIZED AND COMPLY WITH ASTM A 123.
 - WARRANTY: PROVIDE GALVANIZER'S STANDARD WARRANTY THAT MATERIALS WILL BE FREE FROM 10% OR MORE VISIBLE RUST FOR 20 YEARS.
 - NON-SHRINK, NONMETALLIC GROUT: FACTORY-PACKAGED, NON-STAINING, NON-CORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C 1107. PROVIDE GROUT SPECIFICALLY RECOMMENDED BY MANUFACTURER FOR EXTERIOR APPLICATIONS.
- ALL MATERIAL SHALL BE HOT-DIP GALVANIZED.

FABRICATION:

- SHOP ASSEMBLY: PRE-ASSEMBLE ITEMS IN THE SHOP TO GREATEST EXTENT POSSIBLE. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES. CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALLATION.
- CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH, UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
- FORM BENT-METAL CORNERS TO SMALLEST RADIUS POSSIBLE WITHOUT CAUSING GRAIN SEPARATION OR OTHERWISE IMPAIRING WORK.
- FORM EXPOSED WORK TRUE TO LINE AND LEVEL WITH ACCURATE ANGLES AND SURFACES AND STRAIGHT EDGES.
- WELD CORNERS AND SEAMS CONTINUOUSLY TO COMPLY WITH THE FOLLOWING:
 - USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE OF BASE METALS.
 - OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP.
 - REMOVE WELDING FLUX IMMEDIATELY.
 - AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO NO ROUGHNESS SHOWS AFTER FINISHING AND CONTOUR OF WELDED SURFACE MATCHES THAT OF ADJACENT SURFACE.

FABRICATION (CONT):

- FORM EXPOSED CONNECTIONS WITH HAIRLINE JOINTS. FLUSH AND SMOOTH, USING CONCEALED FASTENERS WHERE POSSIBLE. WHERE EXPOSED FASTENERS ARE REQUIRED, USE PHILLIPS FLAT-HEAD (COUNTERSUNK) SCREWS OR BOLTS, UNLESS OTHERWISE INDICATED. LOCATE JOINTS WHERE LEAST CONSPICUOUS.
- FABRICATE SEAMS AND OTHER CONNECTIONS THAT WILL BE EXPOSED TO WEATHER IN A MANNER TO EXCLUDE WATER. PROVIDE WEEP HOLES WHERE WATER MAY ACCUMULATE.
- CUT, REINFORCE, DRILL, AND TAP METAL FABRICATIONS AS INDICATED TO RECEIVE FINISH HARDWARE, SCREWS, AND SIMILAR ITEMS.
- PROVIDE FOR ANCHORAGE OF TYPE INDICATED; COORDINATE WITH SUPPORTING STRUCTURE. SPACE ANCHORING DEVICES TO SECURE METAL FABRICATIONS RIGIDLY IN PLACE AND TO SUPPORT INDICATED LOADS.

INSTALLATION:

- CUTTING, FITTING, AND PLACEMENT: PERFORM CUTTING, DRILLING, AND FITTING REQUIRED FOR INSTALLING METAL FABRICATIONS. SET METAL FABRICATIONS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION; WITH EDGES AND SURFACES LEVEL, PLUMB, TRUE, AND FREE OF RACK; AND MEASURED FROM ESTABLISHED LINES AND LEVELS.
- FIT EXPOSED CONNECTIONS ACCURATELY TOGETHER TO FORM HAIRLINE JOINTS. WELD CONNECTIONS THAT ARE NOT TO BE LEFT AS EXPOSED JOINTS BUT CANNOT BE SHOP WELDED BECAUSE OF SHIPPING SIZE LIMITATIONS. DO NOT WELD, CUT, OR ABRASE SURFACES OF EXTERIOR UNITS THAT HAVE BEEN HOT-DIP GALVANIZED AFTER FABRICATION AND ARE FOR BOLTED OR SCREWED FIELD CONNECTIONS.
- FIELD WELDING: COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - USE MATERIALS AND METHODS THAT MINIMIZE DISTORTION AND DEVELOP STRENGTH AND CORROSION RESISTANCE OF BASE METALS.
 - OBTAIN FUSION WITHOUT UNDERCUT OR OVERLAP.
 - REMOVE WELDING FLUX IMMEDIATELY.
 - AT EXPOSED CONNECTIONS, FINISH EXPOSED WELDS AND SURFACES SMOOTH AND BLENDED SO NO ROUGHNESS SHOWS THAT OF ADJACENT SURFACE.
- FASTENING TO IN-PLACE CONSTRUCTION: PROVIDE ANCHORAGE DEVICES AND FASTENERS WHERE METAL FABRICATIONS ARE REQUIRED TO BE FASTENED TO IN-PLACE CONSTRUCTION. PROVIDE THREADED FASTENERS FOR USE WITH CONCRETE AND MASONRY INSERTS, TOGGLE BOLTS, THROUGH BOLTS, LAG BOLTS, WOOD SCREWS, AND OTHER CONNECTORS.
- PROVIDE TEMPORARY BRACING OR ANCHORS IN FORMWORK FOR ITEMS THAT ARE TO BE BUILT INTO CONCRETE, MASONRY, OR SIMILAR CONSTRUCTION.
- CORROSION PROTECTION: PROVIDE HARD PLASTIC OR REINFORCE RUBBER GASKET BETWEEN ALL STAINLESS STEEL AND GALVANIZE STEEL ELEMENTS.

HANDRAIL NOTES:

MATERIAL:

- ALL HANDRAILS SHALL BE 1 1/4" DIAMETER STAINLESS STEEL TUBING (ASTM A 554, GRADE MT 304).
- ALL FASTENERS SHALL BE TYPE 304 STAINLESS STEEL.
- WELDING RODS: SELECT ACCORDING TO AWS SPECIFICATIONS FOR METAL ALLOY WELDED.
- PROVIDE STAINLESS STEEL WALL BRACKETS BY CARLSTADT OR APPROVED EQUAL.

FABRICATION:

- FABRICATE RAILINGS TO COMPLY WITH REQUIREMENTS INDICATED FOR DESIGN, DIMENSIONS, MEMBER SIZES AND SPACING, DETAILS, FINISH, AND ANCHORAGE.
- ASSEMBLE RAILINGS IN THE SHOP TO GREATEST EXTENT POSSIBLE TO MINIMIZE FIELD SPLICING AND ASSEMBLY. DISASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING AND HANDLING LIMITATIONS. CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALLATION. USE CONNECTIONS THAT MAINTAIN STRUCTURAL VALUE OF JOINED PIECES.
- CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH, UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.
- PROVIDE WEEP HOLES WHERE WATER MAY ACCUMULATE.
- CONNECTIONS: FABRICATE RAILINGS WITH WELDED CONNECTIONS, UNLESS OTHERWISE INDICATED.
- WELDED CONNECTIONS: COPE COMPONENTS AT CONNECTIONS TO PROVIDE CLOSE FIT, OR USE FITTINGS DESIGNED FOR THIS PURPOSE. WELD ALL AROUND AT CONNECTIONS, INCLUDING AT FITTINGS.
- FORM SIMPLE AND COMPOUND CURVES BY BENDING MEMBERS IN JIGS TO PRODUCE UNIFORM CURVATURE FOR EACH REPETITIVE CONFIGURATION REQUIRED; MAINTAIN CROSS SECTION OF MEMBER THROUGHOUT ENTIRE BEND WITHOUT BUCKLING, TWISTING, CRACKING, OR OTHERWISE DEFORMING EXPOSED SURFACES OF COMPONENTS.
- CLOSE EXPOSED ENDS OF RAILING MEMBERS WITH PREFABRICATED END FITTINGS.

INSTALLATION:

- FIT EXPOSED CONNECTIONS TOGETHER TO FORM TIGHT, HAIRLINE JOINTS.
- PERFORM CUTTING, DRILLING, AND FITTING REQUIRED FOR INSTALLING RAILINGS. SET RAILINGS ACCURATELY IN LOCATION, ALIGNMENT, AND ELEVATION; MEASURED FROM ESTABLISHED LINES AND LEVELS AND FREE OF RACK.
- ALIGN RAILS SO VARIATIONS FROM LEVEL FOR HORIZONTAL MEMBERS AND VARIATIONS FROM PARALLEL WITH RAKE OF STEPS AND RAMPS FOR SLOPING MEMBERS DO NOT EXCEED 1/4 INCH IN 12 FEET.
- ADJUST RAILINGS BEFORE ANCHORING TO ENSURE MATCHING ALIGNMENT AT ABUTTING JOINTS.
- WELDED CONNECTIONS: USE FULLY WELDED JOINTS FOR PERMANENTLY CONNECTING RAILING COMPONENTS. COMPLY WITH REQUIREMENTS FOR WELDED CONNECTIONS WHETHER WELDING IS PERFORMED IN THE SHOP OR IN THE FIELD.
- EXPANSION JOINTS: INSTALL EXPANSION JOINTS AT LOCATIONS INDICATED BUT NOT FARTHER APART THAN REQUIRED TO ACCOMMODATE THERMAL MOVEMENT. PROVIDE SLIP-JOINT INTERNAL SLEEVE EXTENDING 2 INCHES BEYOND JOINT ON EITHER SIDE, FASTEN INTERNAL SLEEVE SECURELY TO 1 SIDE, AND LOCATE JOINT WITHIN 6 INCHES OF POST.

FINISH:

- REMOVE ALL TOOL AND DIE MARKS AND STRECH LINES OR BLEND INTO FINISH.
- PROVIDE A BRUSHED NO. 4 FINISH TO ALL STAINLESS STEEL HANDRAILS.
- WHEN FINISHING IS COMPLETED, PASSIVATE AND RINSE SURFACES. REMOVE EMBEDDED FOREIGN MATTER AND LEAVE SURFACES CHEMICALLY CLEAN.

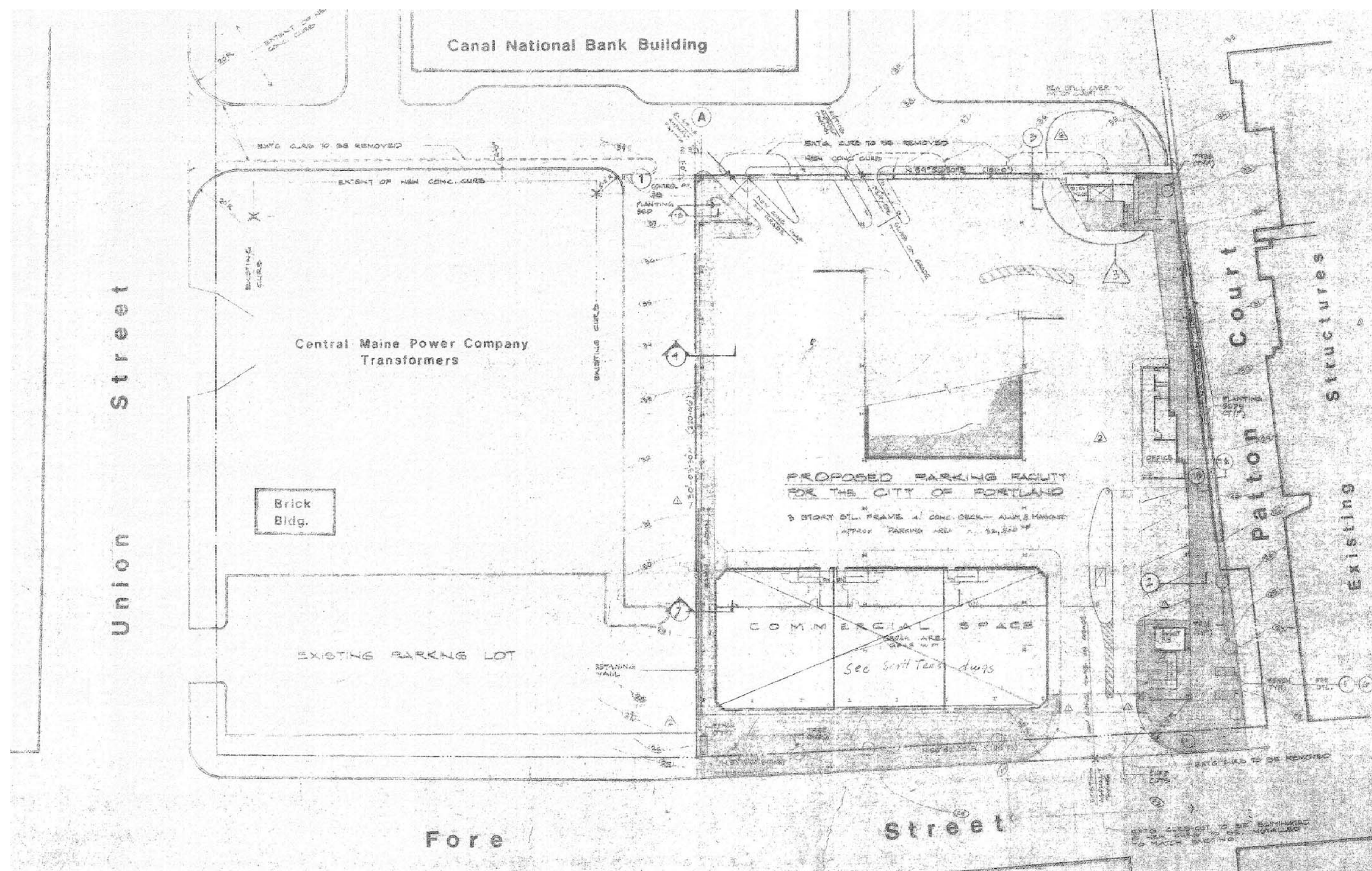
PRECAST CONCRETE TREADS

MATERIAL:

- CONCRETE:
 - f'c = 5,000 PSI MIN.
 - AIR CONTENT = 6% +/-1%
 - PROVIDE A MINIMUM OF ONE TEST RESULT FOR STRENGTH AND AIR.
- REINFORCEMENT: GALVANIZED BARS CONFORMING WITH ASTM A 615, GRADE 60. PROVIDE MINIMUM TOP COVER OF 1 1/2"
- CONNECTIONS: HOT DIPPED GALVANIZED PER ASTM A 123 OR ASTM A 153.
- EMBEDMENTS: ALL EMBEDMENTS SHALL BE HOT DIPPED GALVANIZED OR NON-CORROSIVE MATERIAL.

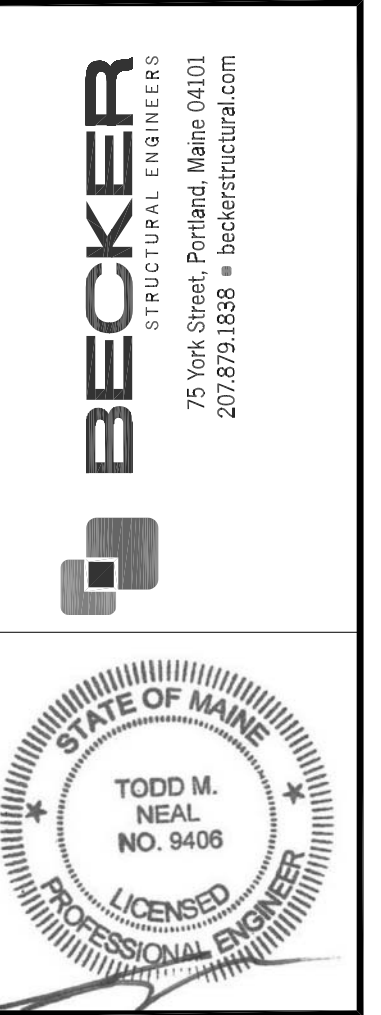
FABRICATION:

- PRECAST UNITS SHALL BE FABRICATED BY A CURRENT APA CERTIFIED PLANT.
- EACH TREAD SHALL BE CAST WITH WOOSTER PRODUCTS TYPE 231BF NOSING WITH ABRASIVE FILLER. HOLD BACK 2" FROM EACH SIDE.
- FINISH:
 - CUT, TOP, BACK AND FRONT SURFACES TO RECEIVE FORM FINISH WITH MEDIUM EXPOSURE SAND BLAST.
 - BOTTOM TO RECEIVE TROWEL FINISH WITH MEDIUM EXPOSURE SAND BLAST.



SITE PLAN
NTS

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FORE STREET PARKING FACILITY
PORTLAND, MAINE
GENERAL NOTES

Designed	AMJ	Scale	AS NOTED
Drawn	RJB	Date	3/27/15
Checked	TMN	Becker Job Number	3534

NOT FOR CONSTRUCTION
PERMIT SET 4/1/15

THESE DWGS ARE NOT COMPLETE.
DESIGN IS STILL IN PROGRESS.
CONTRACTOR SHALL CARRY
APPROPRIATE CONTINGENCY.

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