

GENERAL NOTES

- 1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS... 2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS... 3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE VERIFIED IN THE FIELD... 4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE ONLY AFTER THE STRUCTURAL WORK CONTAINED IN THE S- DRAWINGS IS COMPLETED... 5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS... 6. PROVIDE AND INSTALL NECESSARY MATERIAL TO CONNECT ELEVATOR SUPPORT BEAMS AND GUIDE RAILS... 7. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK... 8. ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED... 9. IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2006 EDITION, SECTION 1704.1), A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED... 10. REFERENCE THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS... 11. ALL COMPONENTS OF THIS PARKING STRUCTURE SHALL CONFORM TO THE "GUIDE FOR THE DESIGN OF DURABLE PARKING STRUCTURES" (ACI 308.1R-97), ZONE III.

DESIGN LOADS

- 1. BUILDING CODE: INTERNATIONAL BUILDING CODE, 2006 EDITION ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. 2. DESIGN FLOOR LIVE LOADS (REDUCTIONS ARE UTILIZED PER CODE CRITERIA) PASSENGER CAR PARKING: 40 PSF STAIRS: 100 PSF RETAIL: 100 PSF 3. DESIGN ROOF SNOW LOAD: GROUND SNOW LOAD (Pg): 60 PSF SNOW EXPOSURE FACTOR (Ce): 1.0 SNOW LOAD IMPORTANCE FACTOR (Is): 1.0 SNOW LOAD THERMAL FACTOR (Ct): 1.2 FLAT ROOF SNOW LOAD (Pf): 50 PSF + DRIFT 4. DESIGN WIND LOAD: BASIC WIND SPEED: 100 MPH WIND LOAD IMPORTANCE FACTOR (Iw): 1.0 WIND EXPOSURE: C INTERNAL PRESSURE COEFFICIENT: +/- 0.18 COMPONENTS & CLADDING LOADS PER ASCE 7-05 5. DESIGN SEISMIC LOADS: EQUIVALENT LATERAL FORCE PROCEDURE OCCUPANCY CATEGORY: II PER IBC TABLE 1604.5 SEISMIC IMPORTANCE FACTOR (Is): 1.0 MAPPED SPECTRAL RESPONSE ACCELERATIONS: Sa: 0.314 S1: 0.077 SEISMIC SITE CLASS: E SPECTRAL RESPONSE COEFFICIENTS: Sds: 0.325 Sd1: 0.123 SEISMIC DESIGN CATEGORY: B BASIC STRUCTURAL SYSTEM MOMENT RESISTING FRAME SYSTEM (NORTH/SOUTH) BUILDING FRAME SYSTEM (EAST/WEST) BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED CONCRETE MOMENT FRAMES (NORTH/SOUTH) ORDINARY REINFORCED CONCRETE SHEAR WALLS (EAST/WEST) RESPONSE MODIFICATION FACTOR (Rn): X: 3.0 (NORTH/SOUTH) Y: 5.0 (EAST-WEST) SEISMIC RESPONSE COEFFICIENT (Cs): X: 0.035 Y: 0.059

PILE SUPPORTED FOUNDATION NOTES:

- 1. PILE FOUNDATIONS BASED ON USING 16" SPO PROTECT CONCRETE PILES: THE PILE DESIGN FOR THIS PROJECT IS TO BE DESIGNED BY THE PILE SUBCONTRACTOR... 2. CONTRACTOR SHALL SUBMIT PROPOSED PILE HAMMER AND ENERGY REQUIREMENTS FOR REVIEW BY THE GEOTECHNICAL ENGINEER... 3. PILE LENGTHS SHALL BE ESTIMATED BASED ON BORING INFORMATION PROVIDED IN THE GEOTECHNICAL ENGINEERING REPORT... 4. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS, AND COORDINATE WITH OWNER'S REPRESENTATIVE FOR PILE LOCATIONS, UTILITY LOCATIONS, BUILDING LOCATIONS, AND ANY INTERFERENCE ENCOUNTERED... 5. THE PROJECT SPECIFICATIONS REQUIRE THE CONTRACTOR TO SUBMIT INFORMATION ON HIS PROPOSED PILE DRIVING SYSTEM FOR REVIEW BY THE GEOTECHNICAL ENGINEER... 6. IBC REQUIRES PILE LOAD TESTING FOR THIS PROJECT... 7. BOTTOMS OF EXTERIOR PILE CAPS SHOULD BE FOUNDED AT LEAST 4.5 FT. BELOW ADJACENT FINISHED GROUND SURFACE FOR FROST PROTECTION... 8. PILE CAP SUBGRADE SOILS SHOULD NOT BE ALLOWED TO FREEZE... 9. PILES SHALL BE DRIVEN IN THE LOCATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING TOLERANCES... 11. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUDED CELLS.

PILE SUPPORTED FOUNDATION NOTES CONT.

- 12. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL SUBGRADES HAVE BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER OR APPROVED TESTING AGENCY... 13. REFERENCE THE GEOTECHNICAL REPORTS FOR ALL EXCAVATION, BACKFILL, COMPACTION, CONSTRUCTION DEWATERING AND PERMANENT DRAINAGE REQUIREMENTS... 14. SOILS EXPOSED AT THE BASE OF ALL SATISFACTORY FOUNDATION EXCAVATIONS SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION... 15. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS... 20. STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS.

CONCRETE NOTES

- 1. CONCRETE WORK SHALL CONFORM TO "ACI MANUAL OF CONCRETE PRACTICE", LATEST EDITION... 2. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AS NOTED IN THE SPECIFICATIONS... 3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND... 4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE... 5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS... 6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS... 7. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH... B) FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER... C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER... 8. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS... 9. WELDING OF REINFORCEMENT IS NOT PERMITTED... 10. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS... 11. 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... 12. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS: A) FOOTINGS AND WALLS MAX LENGTH 40'-0" NOR 15'-0" FROM ANY CORNER** B) SLABS ON GRADE SEE SLAB PLAN ** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED...

- 13. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "S-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP... 14. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS... 21. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUDED CELLS.

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC "SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL" 9TH EDITION, AND THE "CODE OF STANDARD PRACTICE, LATEST EDITION... 2. STRUCTURAL STEEL: STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE... 3. STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 KSI... 4. FIELD CONNECTIONS SHALL BE BOLTED USING ASTM A325 HIGH STRENGTH BOLTS... 5. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1-LATEST EDITION... 6. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION... 7. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHORS, BOLTS, ETC., SHOWN ON ARCHITECTURAL DRAWINGS... 8. PROVIDE LINTELS AS AT WALL PENETRATIONS AS SHOWN IN THE LINTEL SCHEDULE... 9. STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS... 10. CELLS TO BE GROUDED SHALL BE 2-CELL BLOCK... 11. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUDED CELLS.

MASONRY NOTES

- 1. ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.1-02... 2. ALL CONCRETE MASONRY UNITS SHALL BE ASTM C90 GRADE N, TYPE I STANDARD WEIGHT BLOCKS... 3. MORTAR SHALL CONFORM TO ASTM SPECIFICATION C270, TYPE M OR S... 4. GROUT SHALL CONFORM TO ASTM-C476... 5. REINFORCING FOR BOND BEAMS, LINTEL BLOCKS AND VERTICAL WALL REINFORCING SHALL BE BILLET STEEL CONFORMING TO ASTM A615, GRADE 60... 6. HORIZONTAL JOINT REINFORCING SHALL BE DUR-O-WAL TRUSS DESIGN, STANDARD CLASS MILD GALVANIZED WITH 3/16" DIAMETER SIDE RODS... 7. CONCRETE MASONRY UNITS SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE NOTED... 8. PROVIDE LINTELS AS AT WALL PENETRATIONS AS SHOWN IN THE LINTEL SCHEDULE... 9. STANDARD LAP LENGTH OF GRADE 60 MASONRY REINFORCING BARS SHALL BE 48 BAR DIAMETERS... 10. CELLS TO BE GROUDED SHALL BE 2-CELL BLOCK... 11. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUDED CELLS.

LINTELS

- 1. THE FOLLOWING LINTELS SHALL BE USED FOR MASONRY OPENINGS: MASONRY OPENING UP TO 3'-0" L 3 1/2 x 3 1/2 x 1/2 x 5/16 3'-1" TO 4'-6" L 4 x 3 1/2 x 5/16 (LLV) 4'-7" TO 6'-0" L 5 x 3 1/2 x 5/16 (LLV) 6'-1" TO 8'-0" L 6 x 3 1/2 x 5/16 (LLV) 8'-1" TO 12'-0" L 6 x 3 1/2 x 3/8 (LLV) 2. PROVIDE ONE ANGLE FOR EACH 4" WALL THICKNESS... 3. PROVIDE 8" OF BEARING AT EACH END OF ALL LINTELS... 4. ALL EXTERIOR LINTELS SHALL BE HOT-DIPPED GALVANIZED.

POST TENSIONING

- 1. FIELD FOREMAN: THE FIELD FOREMAN RESPONSIBLE FOR THE PLACEMENT OF ALL POST-TENSIONING SHALL HAVE A MINIMUM OF THREE (3) YEARS IN THIS CAPACITY... 2. PT STEEL QUALITY: ONE SAMPLE OF EACH REEL OR HEAL SHALL BE TESTED BY AN APPROVED LABORATORY... 3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND... 4. PROVIDE PVC SLEEVES WHERE PIPES PASS THROUGH EXTERIOR CONCRETE... 5. REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 DEFORMED BARS... 6. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 AND BE PROVIDED IN FLAT SHEETS... 7. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS: A) SURFACES CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH... B) FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER... C) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER... 8. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS... 9. WELDING OF REINFORCEMENT IS NOT PERMITTED... 10. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENING AS SHOWN ON THE CONTRACT DOCUMENTS... 11. 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... 12. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE SHALL BE AS FOLLOWS: A) FOOTINGS AND WALLS MAX LENGTH 40'-0" NOR 15'-0" FROM ANY CORNER** B) SLABS ON GRADE SEE SLAB PLAN ** EXCEED ONLY WHERE INTERMEDIATE CONTRACTION JOINTS ARE PROVIDED... 13. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "S-STAR" 5000-PSI NON-SHRINK GROUT BY U.S. GROUT CORP... 14. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS... 21. FIELD PENETRATIONS THROUGH BLOCK WALLS SHALL NOT BE MADE THROUGH BOND BEAMS, LINTELS OR GROUDED CELLS.

INSPECTION

- 1. GENERAL: IN ADDITION TO THE INSPECTIONS REQUIRED BY IBC 2003 THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR DURING CONSTRUCTION ON THE TYPES OF WORK DESCRIBED IN THIS SECTION... 2. CONCRETE: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL REINFORCED CONCRETE AND PNEUMATICALLY PLACED CONCRETE... 3. REINFORCING STEEL AND PRESTRESSING STEEL: A. DURING ALL STRESSING AND GROUTING OF PRESTRESSED AND POST-TENSIONED CONCRETE... B. DURING THE PLACING OF REINFORCING STEEL, TENDONS AND PRESTRESSING STEEL... 29. DE-SHORING: SLABS OR BEAMS MAY BE DE-SHORED WHEN ALL TENDONS HAVE BEEN SATISFACTORILY STRESSED AND THE ENGINEER'S APPROVAL IS OBTAINED, UNLESS SHORING IS REQUIRED TO CARRY FLOORS ON ABOVE LEVELS.

SPECIAL NOTES TO OWNER

- 1. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AS WELL AS POST-TENSIONED CONCRETE DEVELOP CRACKS... 2. THE CRACKS FORMED ARE NORMALLY COSMETIC... 3. MOST CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM... 4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT, MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION...

ABBREVIATIONS

Table with 3 columns: Abbreviation, Description, and Notes. Includes terms like ACT, A.F.F., AGG, ALT, APPROX, ARCH, B.C.M., B.M., B.T., B.T.M., BLDG, B.O., B.O.C., BRDG, B.P.L., BRG, B.S., C, C.E.M. BD, C.G.S., C.I.P., C.J., C.L., CLP, CMU, COL, COMC, CONT, DIA, DBL, DEAD LOAD, DET, DWG, EA, E.F., E.J., E.L./ELEV, ELEC, EMBED, E.S., E.Q., E.W., E.W.B., EXIST, EXT, FD, FIN. FL, F.F., F.B.O., FB, F.F.E., F.S., F.T., GA, GALV, GEN. CONTRACTOR, GWB, HORIZ, HVAC, HSS, I.D., I.F., INSUL, ANCHOR BOLT, ACoustical, CEILING TILE, ABOVE FINISH FLOOR, AGGREGATE, ALTERNATE, APPROXIMATE, ARCHITECTURAL, BOTTOM CHORD EXTENSION, BEAM, BOARD, BITUMINOUS, BUILDING, BOTTOM OF / BY OTHERS, BOT, BRIDGING, BRIDGE PLATE, BEARING, BOTH SIDES, CEMENT BOARD, CENTER OF GRAVITY OF POST TENSIONING STRAND, CAST IN PLACE, CONTROL/CONST. JOINT, CENTER LINE, CLEAR, CONCRETE MASONRY UNIT, COLUMN, CONCRETE, CONTINUOUS, DIAMETER, DOUBLE, DEAD LOAD, DETAIL, DRAWING, EACH FACE, EACH FACE EXPANSION JOINT, ELEVATION, ELECTRICAL, EMBEDMENT, EACH SIDE, EQUAL, EACH WAY, EACH WAY BOTTOM, EXISTING, EXTERIOR, FLOOR DRAIN, FINISH FLOOR, FINISH FLOOR / FAR FACE, FINISHED BY OTHERS, FINISH FLOOR ELEVATION, FOOTING, GALVANIZED, GENERAL CONTRACTOR, GYPSUM WALLBOARD, HORIZONTAL HEATING VENTILATION & COOLING, HOLLOW STRUCTURAL SHAPE, INSIDE DIAMETER, INSIDE FACE, INSULATION, KIPS, ANGLE, LIVE LOAD, LONG LEG HORIZ, LONG LEG VERT, MAXIMUM, MECHANICAL OVERLAY, MECHANICAL, MANUFACTURER, MINIMUM, MISCELLANEOUS, MASONRY OPENING NOT IN CONTRACT, NEAR SIDE, NOT TO SCALE, ON CENTER, OUTSIDE DIAMETER, OUTSIDE FACE, POWDER ACTUATED FASTENER PLATE, POUNDS PER LINEAR FOOT, POUNDS PER SQUARE FOOT, PRESSURE TREATED, POLYETHYLENE TEREPHTHALATE, RADIUS, ROOF DRAIN, REINFORCEMENT, REQUIRED, REQUIREMENTS, ROUGH OPENING, ROOF TOP UNIT, SQUARE FOOT, SHEET, SIMILAR, SHEAR KEY, STANDARD STEEL, STEEL, STRUCTURAL, STIFFENER, TOP & BOTTOM, TOP CHORD EXTENSION, THE JOIST, TOP OF, TOP OF STEEL etc., TYPICAL, UNLESS NOTED OTHERWISE, VAPOR BARRIER, VERIFY IN FIELD, VENT THROUGH ROOF, WITH FLANGE, WORK POINT, WELDED WIRE FABRIC.

CONSTRUCTION MANAGER: CONSLCI, PARKING GARAGE ARCHITECT: SSI, PARKING GARAGE STRUCTURAL ENGINEER: BECKER, SITE/CIVIL ENGINEER: HARRIMAN

HARRIMAN Architects + Engineers, Auburn Business Park, Auburn, Maine 04210, 207.784.5100, 207.782.3011 fax, 123 Middle Street, Portland, Maine 04101, 207.775.0653 ext, 207.775.0460 fax, www.harriman.com, o 2008

Project Title: BAYCO LLC BAYSIDE DEVELOPMENT PORTLAND, MAINE, PARKING GARAGE, Project No.: 2008-0040, Key Plan: Future Building, Parking Garage, Office Building

General Notes or Legends Here

Table with 3 columns: Date, Description, and Status. Includes entries for 1-7-08 (100% SITE ENABLING PACKAGE), 12-19-08 (50% CONSTRUCTION DOCUMENTS), 11-26-08 (100% DESIGN DEVELOPMENT), 10-29-08 (50% DESIGN DEVELOPMENT).

Drawing Status: 100% SITE ENABLING PACKAGE

Drawing Title: GENERAL NOTES, PA: PE, MJJM, Drawn By: APP, Drawing Number

GS00.0

GENERAL NOTES, NO SCALE, REF: 1

