DISPLAY	THIS CARD ON PRINCI	PAL FRONTAGE OF WORK	
	na an a	ORTLAND	
BU	ILDIN	J PERMIT	
This is to certify that <u>500 RI</u>	ERSIDE ASSOCIATES	Located At 524 RIVERSIDE IND PKWY	
Job ID: <u>2011-12-2831-ALTC</u>	MMM	CBL: <u>370A- A-012-001</u>	
	ing and the second s		
provided that the person or p the Statues of Maine and of t	4) Weinschleichland, all der einen and Siller in Siller	epting this permit shall comply with all of t rtland regulating the construction, mainten the department.	-
-	nd written permission procured t thereof is lathed or otherwise E IS REQUIRED.	A final inspection must be comp before this building or part thereof certificate of occupancy is require	is occupied. If a
	ng and an the second	VINAZ 12	17/11
Fire Prevention Officer THIS CA	he a North and an and a	Gode Enforcement Officer / P HE STREET SIDE OF THE PROPERTY	lan Reviewer

PENALTY FOR REMOVING THIS CARD

ENVIR LOGIX **Putting Science to the Test**

Integrated Energy Systems, PLLC 301 Middle Road Falmouth, ME 04105-1229 BUILDING DESIGN CODES: INTERNATIONAL BUILDING CODE INTERNATIONAL EXISTING BUILDING CODE INTERNATIONAL EXISTING BUILDING CODE INTERNATIONAL ENERGY CONSERVATION C STANDARDS FOR ACCESSIBLE DESIGN LIFE BAFETY CODE IBC 2009 IEBC 2009 IECC 2009 ADA 2010 NFPA 101 2009 NEC 2007 UPC 2007 **ENVIROLOGIX** INDUSTRIAL IBC SECTION 304 Prides USES - LABORATORY, STORAGE, MECHANIC FIRE SUPPRESSION: BUILDING CURRENTLY IS AND WILL BE FULLY SPRINKLERED PER NFPA 13 302 XISTING & PROPOSED AREAS: FYISTING BUILDING FOOTPRINT - 520 / 530 RIVERSIDE INDUSTRIAL. PARKWAY ±34,895 GSF كالا المراجع الله العالم المراجع ال مراجع المراجع ال مراجع المراجع الم مراجع المراجع ال مراجع المراجع ال مراجع المراج EXISTING BUILDING FOOTPRINT 520/530 EXISTING FIRST FLOOR BUSINESS EXISTING SECOND FLOOR BUSINESS EXISTING BUILDING HEIGHT PROPOSED ADDITIONAL FIRST FLOOR BU PROPOSED ADDITIONAL SECOND FLOOR BU PROPOSED ADDITIONAL SECOND FLOOR _____ YPE OF CONSTRUCTION / BUILDING LIMITS: ALLOWABLE BUILIDNG HEIGHTS AND AREAS TABLE 503 ALOWABLE HEIGHT = 55' ALOWABLE STORIES = 3 ALOWABLE AREA = 19,000 GSF TING SIMILAR TO TYPE IIIB, PROPOSED TYPE IIIE ALLOWABLE AREA FORMULA WITH SPRINKLER & FRONTAGE ALL ANCE Mound v 49 (frontage increase) ALLOWABLE AREA = [Area allowed x 2 (sprinkler system)] + [area ALLOWABLE AREA = [19,000 x 2] + [19,000 x 49] = ±47,405 GSF IUILDING FIRE SEPARATION: BULDING SEPARATION = 2 70:-9: EXISTING PER TABLE 601 FIRE RESITANCE RATING OF EXTERIOR BEARING WALLS, TYPE IIIB = 2 HRS PER TABLE 602 FIRE RESITANCE RATING OF EXTERIOR WALLS >30 = 0 HRS LOCATION MAP s areas; 3170 GSF / 100 sf per occup = 32 occupant ry storage, mechanical equipment; 4660 GSF / 300 sf per occup = 16 occupant 15060 GSF / 100 sf per occup = 151 occupant 199 occupants

OWNER:

207-797-0300 Contact: Peter Johnso

ARCHITECT: TEH Architects

80 Middle Street Portland, Maine 04101 207-775-6141

Contact: Scott Teas

STRUCTURAL ENGINEER:

Becker Structural Engineers 75 York Street Portland, ME 04101-4550 207-879-1838

MECHANICAL ENGINEER

ELECTRICAL ENGINEER

GENERAL CONTRACTOR Warren Construction Group, L POB 362

TRICAL CODE

MAINE STATE INTERNA

CCUPANCY CLASSIFICATION: BUSINESS GROUP R

GRESS: Occupant load First flo

. ess areas.

t capacity Stairs .3' x 199 occupants = 59.7' total, minimum stair width= 44', 154'' provided Other _2'' x 199 occupants = 39.8' total, minimum stair width= 44'',

nimum per IBC 1015.2.1 with spnnkter = Max diagonal (200') x 1/3 = 66

Renorm of RANS Minimum number of exits for occupant load per IBC table 1021.1 = 2 3 exits provided Remote discusses minimum per IBC 1015.2.1 with spnnkler = Max diagonal Remote discusses and table = 5000

Bennett Engineering 7 Bennett Road Freeport, ME 04032 207-865-9475 Contact: Will Bennett

Freeport, ME 04078 207-865-3522

Contact: Peter Warren

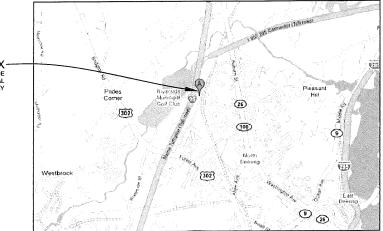
Contact: David Macolini

207-781-4263 Contact: Richard Grondin

EnviroLogix 500 Riverside Parkway Portland, Maine 04103

Renovations to 530 Riverside Parkway **DNA Lab & Office Facilities Expansion** Portland, Maine

> **Permitting Documents** August 17, 2011





DRAWING LIST

GENERAL:

- G0-0 COVER, LOCUS, DRAWING LIST, CODE SUMMARY PARTIES G1-0 CONTENTS SHEET ABBREVIATIONS, GENERAL NOTES & LEGEND
- CIVIL:
- C1-1 SITE LAYOUT, ZONING DATA
- ARCHITECTURAL:
- A1.1A FIRST FLOOR PLAN PART A A1.1B FIRST FLOOR PLAN PART B A1.2A SECOND FLOOR PLAN PART A A1.2B SECOND FLOOR PLAN - PART B A1.36 SECOND FLOOR REFLECTED CEILING PLAN - PART A A1.38 FIRST FLOOR REFLECTED CEILING PLAN - PART A A1.48 SECOND FLOOR REFLECTED CEILING PLAN - PART A A1.48 SECOND FLOOR REFLECTED CEILING PLAN - PART B A1.5A NOT USED A1.5B NOT USED AL36 SECOND FLOOR PLAN - PART A - FURNITURE, FIXTURES, & EQUIPMENT PLAN A1.66 SECOND FLOOR PLAN - PART B - FURNITURE, FIXTURES, & EQUIPMENT PLAN A1.76 SECOND FLOOR PLAN - PART A - CASEWORK A1.76 SECOND FLOOR PLAN - PART B - CASEWORK A2.0 EXTERIOR ELEVATIONS A3.0 BUILDING SECTIONS
 A4.0
 INTERIOR ELEVATIONS

 A4.1
 INTERIOR ELEVATIONS

 A4.2
 INTERIOR ELEVATIONS

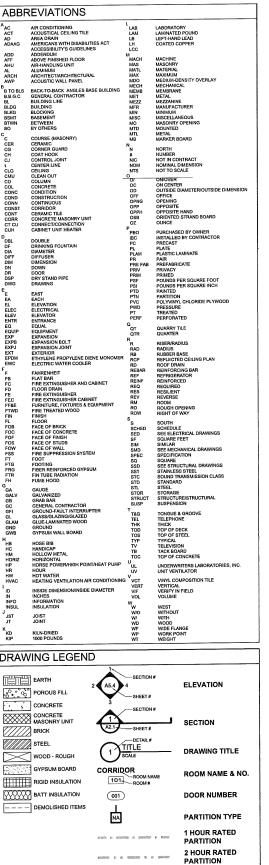
 A4.3
 INTERIOR ELEVATIONS

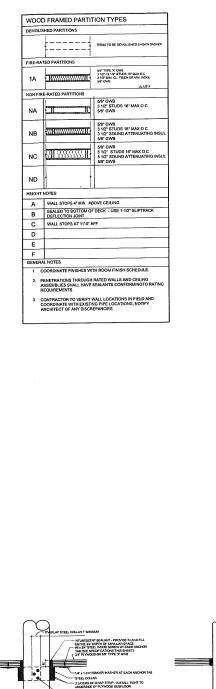
 A4.4
 INTERIOR ELEVATIONS

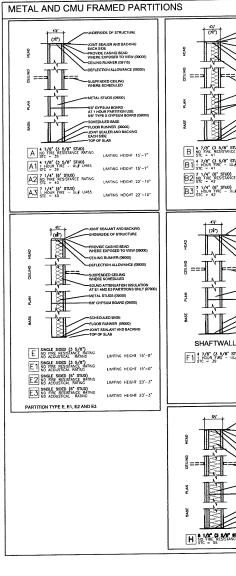
 A4.4
 INTERIOR DELEVATIONS
 A5.0 STAIR DETAILS A5.1 DETAILS A5.2 DETAILS A5.3 CANOPY DETAILS DETAILS DETAILS CANOPY DETAILS A6.0 FINISH, DOOR, LIGHT FIXTURE SCHEDULES A6.1 EQUIPMENT SCHEDULE STRUCTURAL: S1.1 PROPOSED SECOND FLOOR FRAMING PLAN AREA A SECOND FLOOR CEILING FRAMING S1.2 S2.1 SECTIONS AND DETAILS S3.1 FOUNDATION AND STEEL SECTIONS AND TYPICAL DETAILS MECHANICAL: LEGEND, ABBREVIATIONS, SCHEDULES, DETAILS AND SPECIFICATIONS FIRST FLOOR PLAN PART A PLUMBING FIRST FLOOR PLAN PART B PLUMBING SECOND FLOOR PLAN PART A PLUMBING SECOND FLOOR PLAN PART B PLUMBING LEGENDS, NOTES, ABBREVIATIONS, SCHEDULES AND SPECIFICATIONS LEGENDS, NOTES, ABBREVIATIONS, SCHEDU SCHEDULES PIPING SCHEMATIC FIRST FLOOR PLAN PART A MECHANICAL FIRST FLOOR PLAN PART B MECHANICAL SECOND FLOOR PLAN PART B MECHANICAL SECOND FLOOR PLAN PART B MECHANICAL M-4 M-5 M-7 M-8 DETAILS M-0 UE IAILS MD-1 FIRST FLOOR PLAN PART A MECHANICAL DEMOLITION MD-2 FIRST FLOOR PLAN PART B MECHANICAL DEMOLITION MD-3 SECOND FLOOR PLAN PART B MECHANICAL DEMOLITION ELECTRICAL: E1.0 SITE ELECTRICAL PLAN E2.0 FIRST FLOOR PLAN PART A LIGHTING E2.1 FIRST FLOOR PLAN PART B LIGHTING E2.2 SECOND FLOOR PLAN PART A LIGHTING E3.3 SECOND FLOOR PLAN PART B LIGHTING
- E3.0 FIRST FLOOR PLAN PART & POWER
- E3.1 FIRST FLOOR PLAN PART & POWER
- SECOND FLOOR PLAN PART A POWER SECOND FLOOR PLAN PART B POWER
- E3.2 E3.3 E4.0 LEGEND, DETAILS AND SCHEDULES

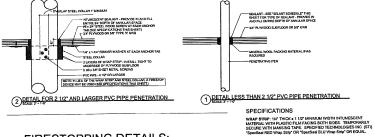
renegation action 127 - 630 million 614 Gan Note and 672(011 + 12:55 PM

GENERAL NOTES			REVIATIONS
DRAWING NOTES: ONTRACTOR TO FURNISH AND INSTALL ALL NOTED LABOR NO MATERIALS UNLESS OTHERWISE NOTED.	18: SHOP DRAWINGS: SUBJUT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATIONS: SUBJITTALS REQUIRED INCLUDE. BUT ARE NOT LIMITED TO, SHOP DRAWINGS FOR ALL BUT ARE NOT LIMITED TO, SHOP DRAWINGS FOR ALL	A AC ACT AD	AIR CONDITIONING ACOUSTICAL CEILING TILE AREA DRAIN AMERICANS WITH DISABILITIES AC
: CODE COMPLIANCE: LL WORK SHALL CONFORM TO THE LATEST EDITION OF TATE, LOCAL AND OTHER CODES WHICH APPLY TO THIS ROLECT OR HAVE JURISDICTION.	BUT ARE NOT LIMITED TO, SHOP DRAWINGS FOR ALL PREFABRICATED CONCRETE STELL, MILLWORK & SIGNAGE, SAMPLES OF ALL PROPOSED PAINTS, METALS, WALL COVERINGS, LAIMINATE, SLOUD SURFACE MATERIALS, CERAMIC TILE, AND HARDWARE. SUBMIT MANUFACTURERS DATA FOR ALL LIGHTING SYSTEMS, AND HARDWARE.	ADAAG ADD AFF AHU AL	ACCESSIBILITY'S GUIDELINES ADDENDUM ABOVE FINISHED FLOOR AIR-HANDLING UNIT
: COORDINATION: IS THE RESPONSIBILITY OF THE CONTRACTOR TO OORDINATE ALL DISCIPLINES AND TRADES SO THAT ALL UILDING SYSTEMS AND COMPONENTS CAN BE ASSEMBLED	19: PERMITS: THE GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ANY BUILDING PERMITS REQUIRED AND CARRY ANY INSURANCE	ARCH AWP B B TO BLS	ALUMINUM ARCHITECT/ARCHITECTURAL ACOUSTIC WALL PANEL BACK-TO-BACK ANGLES BASE BUIL GENERAL CONTRACTOR
THOJT CONFLICTS. IN THE EVENT THAT THE NSTRUCTION DOCUMENTS DEFINE CONDITIONS WHICH CONBIT, OR MAY PROHIBIT, SUCH ASSEMBLY, THE INTRACTOR SHALL BRING TO THE ARCHITECTS ATTENTION, WRITING AND IN A TIMELY FASHION, SUCH CONDITION. THE	COVERAGES REQUIRED.	B.B.G.C. BL BLDG BLKG	BUILDING LINE BUILDING BLOCKING
WRITING AND IN A TIMELY FASHION, SUCH CONDITION. THE NTRACTOR SHALL NOT PROCEED WITH RELATED WORK INOUT A WRITTEN RESOLUTION CLARIFICATION FROM THE CHITECT.	ALL INTERIOR FINISHES AND FURNISHINGS ARE TO BE CLASS VI PRER-ARTED AND ARE TO COMPLY WITH SECTION \$20.0 BOCA (INTERIOR FLAME SPREAD). 21: ELECTRICAL DESIGN: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL	BSMT BTWN BO C C C	BASEMENT BETWEEN BY OTHERS
DISCREPANCIES & CLARIFICATIONS: IS PROJECT INVOLVES THE FIT-UP OF AN EXISTING ILDING. EXISTING DIMENSIONS SHOWN ON THE DRAWINGS	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PANEL CONTROL AND CIRCUIT DESIGN AND FOR COMPLIANCE WITH ALL BUILDING, LIFE SAFETY, AND NATIONAL ELECTRICAL CODES WHICH MAY APPLY.	CER CG CH CJ	COURSE (MASONRY) CERAMIC CORNER GUARD COAT HOOK CONTROL JOINT
RE BELIEVED TO BE ACCURATE, BUT CANNOT BE JARANTEED, MEASURE AND VERIFY DIMENSIONS IN FIELD UCD TO EXPRICATION AND CONSTRUCTION. IT IS THE	22: WASTE REMOVAL: THE GENERAL CONTRACTOR SHALL DISPOSE OF ALL WASTE AND DEBRIS OFF THE PREMISES.	CLG CMU CO	CENTER LINE CEILING CLEAN OUT COLUMN
IDN TO FRANCHTOINAID CONSTITUCTION IN OT THE SPONSIBILITY OF THE CONTRACTOR TO BRING TO THE CHITECTS ATTENTION, IN WRITING, ANY DISCREPANCIES OR BIGUITIES IN THE DRWINIGS AND/OR SPECIFICATIONS E CONTRACTOR SHALL NOT PROCEED WITH RELATED DRK WITHOUT A WRITTEN RESOLUTION OR CLARIFICATION OM THE ARCHITECT.	23: LANDLORD COORDINATION: THE GENERAL CONTRACTOR MUST COORDINATE WITH THE BUILDING OWNER ALL ACTIVITIES INCLUDING BUT NOT LIMITED TO WORK WHICH WILL GENERATE EXCESSIVE NOISE AND HODIE/ACTIVITIES TO THITE THE WORK MUST NOT INTERFERE	COL CONC COND CONN CONST	CONCRETE CONDITION CONSTRUCTION CONTINUOUS CORRIDOR CERAMIC TILE
LAYOUT: ALESS INDICATED OTHERWISE, CENTER WALL FRAMING AND RTITION FRAMING ON COLUMN LINES. FLOOR PLAN NEURODIC ADE TO CENTER OF ERAMING, FACE OF	NODIFICATION TO UTILITIES. WORK MUST NOT INTERFERE WOTH EXISTING SMOKE DETECTORS, ALARMS OR BUILDING SYSTEM MANGEMENT. 24: TEMPORARY FACILITIES:	CONT CORR CT CU CUH	CERAMIC TILE CONCRETE MASONRY UNIT CONNECT/CONNECTION CABINET UNIT HEATER
MENSIONS ARE TO CENTER OF FRAMING, FACE OF SOCRETE, FACE OF CHU, OR FROM COLUMN CENTERLINES, ILESS INDICATED OTHERWISE. DOORS AND WINDOWS ARE MENSIONED TO CENTERLINES UNLESS INDICATED HERWISE.	AP. TEAP DIGUESTICATIVE ACILITIES AND SERVICES. CONSTRUCTION AND SUPPORT FACILITIES AND SECURITY AND PROTECTION AS NEEDED TO PROTECT NEW AND EXISTING CONSTRUCTION FOR THE DURATION OF A COMPLETE INSTALLATION	D DBL DF DIA DIFF	DOUBLE DRINKING FOUNTAIN DAMETER DIFFUSER DIMENSION
CENTERING: LESS INDICATED OTHERWISE, CENTER BUILDING ELEMENTS THIN OR BETWEEN OTHER BUILDING ELEMENTS WHEN NODTIONS OR THE ORAWINGS INDICATE OR IMPLY THAT CUI IS THE INTENT, WHETHER OR NOT DIMENSIONS ARE	25: FINAL CLEANING: EMPLOY EXPERIENCED WORKERS FOR FINAL CLEANING. CLEAN FACH SURFACE TO THE CONDITION EXPECTED IN A COMMERCIAL BUILDING CLEANING PROGRAM.	DIM DN DR DSP DWG	DIMENSION DOWN DOOR DRY STAND PIPE DRAWING
CLUDED SYMMETRY: HERE CONDITIONS OR THE DRAWINGS INDICATE OR IMPLY	26: MANUFACTURERS INSTRUCTIONS: ALL MATERIALS & EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.	E EA EL ELEC	EAST EACH ELEVATION ELECTRICAL
HAT SYMMETRY IS INTENDED, INFORMATION PROVIDED AT NE SIDE APPLIES EQUALLY TO BOTH SIDES, UNLESS NODITIONS CLEARLY PRECLUDE SUCH APPLICATION. ACCESSIBILITY:	27: GUARANTEE: GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE UNLESS OTHERWISE SPECIFIED FOR A	ELEV ENTR EQ EQUIP	ELEVATOR ENTRANCE EQUAL FOUIPMENT
LI HANDICAPPED ACCESSIBLE BATHROOMS, GRAB BARS, ND DOOR OPENINGS SHALL MEET THE REQUIREMENTS OF TILE 94-348, CHAPTER 5 OF THE MAINE HUMAN RIGHTS OMMISION TITLE LATEST EDITION & THE DEPARTMENT OF ISTICE ADA STANDARDS FOR ACCESSIBLE DESIGN.	LONGER PERIOD OF TIME ON A CERTAIN ITEM. 28: ASBESTOS: ALL MATERIAL USED FOR THE CONSTRUCTION OF THIS PROJECT, WHETHER BUILDING MATERIALS OR	EXP EXP8 EXPJ EXT EPDM EWC	EXPANSION EXPANSION BOLT EXPANSION JOINT EXTERIOR ETHYLENE PROPYLENE DIENE MO ELECTRIC WATER COOLER
DRAWING SCALES: DRK FROM THE GIVEN DIMENSIONS ONLY. SCALE IS DICATED ON THE DRAWINGS FOR CONVENIENCE ONLY. IT IS DT INTENDED THAT INFORMATION BE DETERMINED BY ZALING THE DRAWINGS SINCE SOME ITEMS MAY NOT BE TO	APPUIRTEMANCES, SHALL BE NON-ASBESTOS CONTAINING MATERIAL. 29: HAZARODUS FUMES: THE GENERAL CONTRACTOR SHALL CONFIRM THAT ALL MATERIAL AND FINISHES SPECIFIED AND THEIR FABRICATION	F FB FC FD	FAHRENHEIT FLAT BAR FIRE EXTINGUISHER AND CABINET
ALE. : WATER-RESISTANT GWB: STALL WATER-RESISTANT GYPSUM WALL BOARD IN ALL	OR INSTALLATION WILL NOT RELEASE FUMES OR AROMAS DURING CONSTRUCTION WHICH MAY BE A HAZARD OR NUISANCE TO PERSONNEL	FE FEC FF&E FTWD FIN	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FURNITURE, FIXTURES & EQUIPME FIRE TREATED WOOD FINISH
IST ROOMS & TOILET ROOMS OR AT ANY WALL WITH UMBING FIXTURES: I INTERIOR ELEVATIONS: TERIOR ELEVATIONS MAY BE REVERSED FROM AND/OR	30: PEST CONTROL: SEAL AND CAULK AROUND ALL PENETRATIONS, CRACKS AND CREVICES AND ANY OPENINGS CAPABLE OF HARBORING INSECTS/RODENTS.	FL FOB FOC FOF	FLOOR FACE OF BRICK FACE OF CONCRETE FACE OF FINISH
MILAR TO ACTUAL CONDITIONS. SEE FLOOR PLANS FOR INDOW AND DOOR QUANTITIES AND LOCATIONS, FOR ASEWORK LAYOUTS, AND FOR MONITOR LOCATIONS.	31. EXPOSED UTILITIES: ALL EXPOSED UTILITY WIRES AND PIPES (ELECTRICAL, PLUMBING, ETC.) SHALL BE INSTALLED IN A WAY THAT DOES NOT OBSTRUCT OR PREVENT THE CLEANING OF FLOORS, UNLIGHT AND COMPARENT THEY SAME IN BE INSTALL FOR	FOS FOW FSS FT FTG	FACE OF STUDS FACE OF WALL FIRE SUPPRESSION SYSTEM FOOT FOOTING
★ BUILDING INSULATION: ROVIDE AS INDICATED IN WALL SECTIONS AND IN CCORDANCE WITH PARTITION TYPES, WHETHER OR NOT HOWN IN DETAILS AND OTHER DRAWINGS, FOR CLARITY, ISULATION MAY NOT BE SHOWN IN SOME CASES, EVEN IF IT TO BE PROVIDED.	WALLS, AND CEILING AREAS. THEY SHALL BE INSTALLED A MINIMUM OF 6'OFF FLOORS AND 1' OFF WALLS, CEILINGS AND ADJACENT PIPES. 32. OWNER SUPPLIED EQUIPMENT:	FRG FTR FH G GA	FIBER REINFORCED GYPSUM FIN TUBE RADIATION FUME HOOD GAUGE
	2. OWNER SUPPLIED COUPLENT: COURNENT SUPPLIED BY THE GENERAL CONTRACTORI COUPLENT INFORMATION AND SPECIFICATIONS ARE TO BE THE MOST CURRENT AVAILABLE AT THE TIME OF DOCUMENTATION PREPARATION THE GENERAL DOCUMENTATION PREPARATION THE GENERAL	GR GC GFI	GALVANIZED GRAB BAR GENERAL CONTRACTOR GROUND-FAULT INTERRUPTER
INTLA DASEWORK, SHELVES, BRACKETS, TOILET CCESSORIES, CHAIR RAILS, PICTURE RAILS, GRAB BARS, ASE MOLDINGS, AND AS OTHERWISE REQUIRED, WHEN SUCH TEMS ARE APPLIED ON STUD WALLS.	CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING WITH THE OWNER THE EXACT DIMENSIONS AND EQUIPMENT CONNECTION REQUIREMENTS (INCLUDING ELECTRICAL	GL GLAM GND GWB	GLASS/GLAZING/GLAZED GLUE-LAMINATED WOOD GROUND GYPSUM WALL BOARD
I: PENETRATIONS AT STRUCTURAL MEMBERS: EFORE PENETRATING JOISTS, BEAMS OR OTHER TRUCTURAL MEMBERS, CONSULT WITH THE ARCHITECT.	CIRCUIT REQUIREMENTS) OF EQUIPMENT TO BE SUPPLIED. THE GENERAL CONTRACTOR BHALL MAKE ALL FINAL CONNECTIONS AS NOTED ON THE DRAWINDS, INSTALL THE SET UP IN WORKING ORDER, CHECK WARRANTIES, TEST AND NOT VOID WARRANTIES. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE OWNER DELIVERY, STORAGE AND	H HB HC HM HORIZ	HOSE BIB HANDICAP HOLLOW METAL HORIZONTAL
S: DAMAGED WORK: UILDING OR SITE COMPONENTS WHICH ARE AFFECTED BY EW WORK, DEMOLITION, OR WHICH MAY BE DAMAGED BY HE GENERAL CONTRACTOR OR ANY SUB-CONTRACTOR HALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION	INSTALLATION OF ALL OWNER SUPPLIED EQUIPMENT. THE GENERAL CONTRACTOR SHALL STORE EQUIPMENT IF REQUESTED BY THE OWNER UNTIL INSTALLATION. SEE	HP HR HW HVAC	HORSE POWER/HIGH POINT/HEAT HOUR HOT WATER HEATING VENTILATION AIR CONDI
ND COLOR TO MEET THE APPROVAL OF THE ARCHITECT.	DRAWINGS FOR OTHER OWNER SUPPLIED/GENERAL CONTRACTOR INSTALLED ITEMS. 33: FIRE PROTECTION NOTE: EXISTING SPRINKLERHEADS, ALARM SYSTEM AND DETECTORS	ID IN INFO INSUL	INSIDE DIMENSION/INSIDE DIAMET INCHES INFORMATION INSULATION
6. ORTHES: RERIFY THE SIZE AND LOCATION OF ALL UNDERGROUND TILLITES AND REPORT ANY DISCREPANCIES TO THE RICHITECT IN WRITING. DO NOT PROCEED WITH WORK UNTIL THE DISCREPANCY HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT.	EXISTING SPRINKLERHEADS, ALAWN SYS IEM AND DETECTORS ARE TO BE MODIFIED TO CONFORM, WITH THE PROPOSED PLAN. COORDINATE WITH THE ARCHITECT, ANY MODIFICATION OR LOCATIONS WHERE EXISTING SYSTEMS ARE AFFECTED BY THE NEW DESIGN.	J JST JT	JOIST JOINT
17: RATED CONSTRUCTION: ROVIDE RATED CONSTRUCTION AS REQUIRED BY CODE, AS SPECIFIED, AND AS INDICATED ON DRAWINGS. IT IS THE	ALL NOUSTRY STANDARDS: ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS. STANDARDS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:		KILN-DRIED 1000 POUNDS
LESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL ALL COMPONENTS REQUIRED TO CREATE SUCH INTED CONSTRUCTION, REGARDLESS OF WHETHER OR NOT ICCH CONDENIENTS ARE INDICATED. BROWDE CONTINUITY	AAMA AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCATION		
IGAN DOWN ONLY MALE INDIVIDUAL INDIVIDUAL ONLY AND BETWEEN IS SUCH RATED CONSTRUCTION AROUND AND BETWEEN INDIVIDUAL ONLY AND AND AT FLOORS, TO MAINTAIN OMPLETE SEPARATIONS, EVEN IF NOT SPECIFICALLY NDICATED.	ACI AMERICAN CUNCRETE INSTITUTE ANSI AMERICAN NATONAL STANDAROS INSTITUTE ASTM AMERICAN SOCIETY FOR TESTS AND MATERIALS AVI AKEHTECTURAL WOODWORK INSTITUTE "CUSTOM GRADE" AVIS AMERICAN WEDDING SOCIETY		POROUS FILL 2
	IGMA INSULATING GLASS MANUFACTURERS ALLIANCE NAAMM NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS NATIONAL ROOFING CONTRACTORS ASSOCIATION		
	NTCA NATIONAL TILE CONTRACTORS ASSOCIATION SMACNA SHEET METAL AND AIR CONDITIONING NATIONAL	77777	









FIRESTOPPING DETAILS:

STEEL COLLAR: WRAP STRIP MANUFACTURE FABRICATED FROM .016 INCH THICK GALVANI WIDTH TO LATCH WRAP STRIP (1 127 MINIAU ANCHOR TABS AND RETAINER TABS. ANCHO SYMMETRICALLY OPPOSED AROUND COLLAR 127 AND 31 PIPE; FROMDE 4 TABS FOR 4" PIPE INTUMESCENT SEALANT: ONE-PART, INTUMESCENT, LATI ELASTOMER TESTED TO ASTM E 814. MINIMUM EXPANSIO 1000°F. 3M "FIRE BARRIER SEALANT CP 25W8+" OR EQUA FIRESTOP SEALANT: SINGLE COUPONENT NONCOMBUSTIBLE FIRE RATED SEALANT TESTED TO ASTIM E 814. TESTED TO 3000°F. "BOSS 136 FIRESTOP/DRAFT SEALANT" MANUFACTURED BY ACCUMETRIC, SEALANT SCHEDULE: INTUNESCENT BEALANT: PROVIDE AT ALL PENETRAT RATED CONSTRUCTION FOR PENETRATING ITEMS IND LIMITED TO: YOU PIPE; ROCE LEADER PRES: CAS PIPE SPRINCLER PIPES; ELECTRICAL & COMMUNICATIONS AND ALARM SYSTEM WIRES DO NOT USE INTUMESC DOMESTIC HOT WATER ON HYDRONIC HEATING SYST FIRESTOP DEVICE. IN LIEU OF THE WRAP STRIP AND STEEL COL FIRESTOP DEVICE MAY BE USED AS FOLLOWS: FIRESTOP SEAL

DOMESTIC HOT . FOR 3" PVC PIPE (3 1/2" O.D.): STI "SpecSeal LCC" COLLAR #LCC300 FOR 4" PVC PIPE (4 1/2" O.D.): STI "SpecSeal LCC" COLLAR #LCC400 NOTE: FOR LOCATIONS OF RATED CONSTRUCTION, SEE ARCHITECTURAL FLOOR PLANS AND SECTIONS DO NOT USE FIRESTOP DEVICE AT JOINTS (JOINT FLANGES) IN PIPE, PROVIDE WRAP STRIP AND STEEL COLLAR

		SERED ARCHING
	1. DUJENSIONS SHOWN ON PLANS ARE FROM PINSH	
DUNDERSORE OF STRUCTURE JOINT SEALER AND BACKING EACH SIDE	1 DUGDEERING SIXWIN ON PLANS ARE FROU TASK BURKARE TO TIMPS EXPERIENT MASKING TOWNSONS GYDDI ARE NONINGL. "NO" (ALSONINT OVERNIG) REFERS TO NOMAL DENINSS IN LASCRITY UNIT COSITILITUTION "NO" (ROUGH OFENING) REFERS TO ATTUL OVERNIGS BETWEEN WELT, STUDI ON HUTLE, STUDI OXENITUCION TO (ROUGH OFENING) REFERS TO ATTUL OVERNIGS BETWEEN WELT, STUDI ON HUTLE, STUDI OXENITUCION	
PROVIDE CASING BEAD WHERE EXPOSED TO VEW (09000) CEDLING RUNKER (09000) DEFLECTION ALLOWANCE (09000)	2. PARTITION TYPES ARE INDICATED ON THE FLOOR PLANS NUMBERS BRIFRT TO THE PARTITION TWPE, LETTERS INDICATE VARIATIONS TO THE BASE CONDITION DRAWN UNMARKED PARTITIONS SHALL MATCH ADJACENT PARTITION TYPE	© 2011 TFH ARCHITECTS
SUSPENDED CELING WHERE SCHEDIALED	3 ALL FIRE RATED PARTITIONS GHALL EXTEND STRUCTURE TO STRUCTURE UNLESS OTHERWISE NOTED 4 FIRE-RATED PARTITIONS AND SOUND ISOLATION PARTITIONS ARE NOICATED ON REFLECTED CEILING PLANS	
AFTAL STUDS (38000) 58° GYPSUM BOARD - ATTI HOUR PARTITION USE 58° TYPE X GYPSUM BOARD (50000) 50° TYPE X GYPSUM BOARD (50000)	5 CONSTRUCTION OF FIRE-RATED PARTITIONS, INCLUDING TAPING AND FINSHING OF GYPSUM BOARD FOR RAL HEIGHT TO STRUCTIRE RADYS, SIVAL BEIN ACCORDANCE WITH MANUFACTURERS DIRECTIONS TO ACHEVE THE INATING NOICATED	l i
FLOOR RUNKER (W0000) - DOINT FEALER AND BACKING EACH SIDE TOP OF SLAB	6 SOUND ISOLATION & VAPOR TIGHT PARTITIONS SHALL BE SEALED ARTIONF FOR FULL HEIGHT TO PREVENT FASSAGE OF ARBOINE SOUND OR MOSTLIKE: TARE MAD FINAL OVFSUM BOARD JOINTS AND FASTENERS, IPROVIDE CHART AN SEMINITED AND TAIL IN EXERTING TO MARK	
3 5/4° STUD) RESSTANCE RATING 3 5/4° STUD) 3 5/4° STUD) RESSTANCE RATING LUMTING HEIGHT 15'-7' 6° STUD) LUMTING HEIGHT 22'-10°	BLOWN AT FERGE DATA TO A LOCATION ALL DATA DATA DATA DATA DATA DATA DATA	
6" STUD) ПРЕ — ULF U455 2 2	WITH 3" FUNCES AND WEB WIDTH EQUAL TO MASKNIFT WIDTH - SPACE 4" OF OL MAX, MAD MICHOR WITH THREE 18" 1 15115" DRIVE PAS 1 HOLLOW METAL FRAMES IN WETAL STUD PARTITIONS FUNCTIONES AFTER ANALYTICS REF MUNIPARIA FOR FUNCTIONES AFTER ANALYTICS REF MUNIPARIA FOR	
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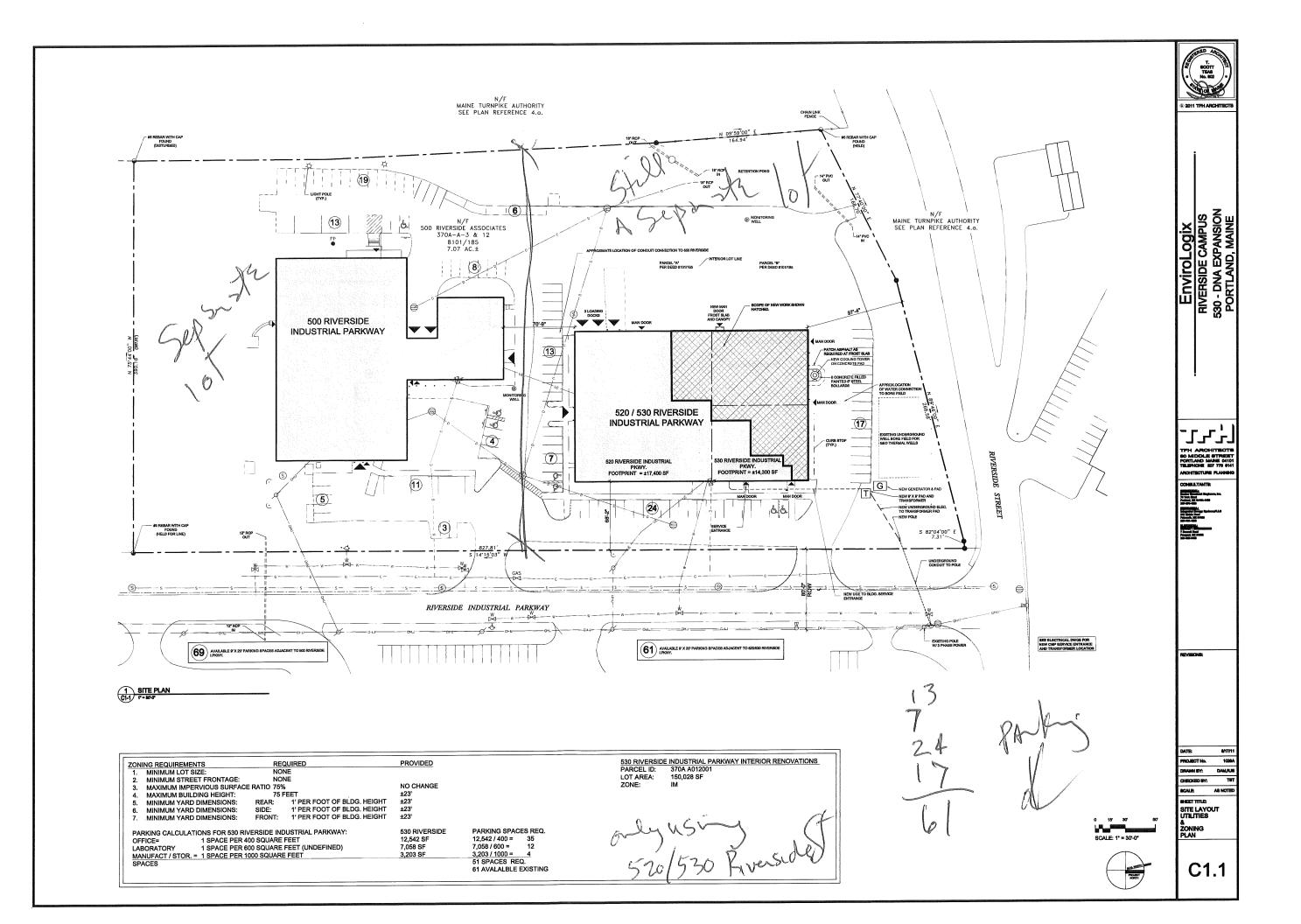
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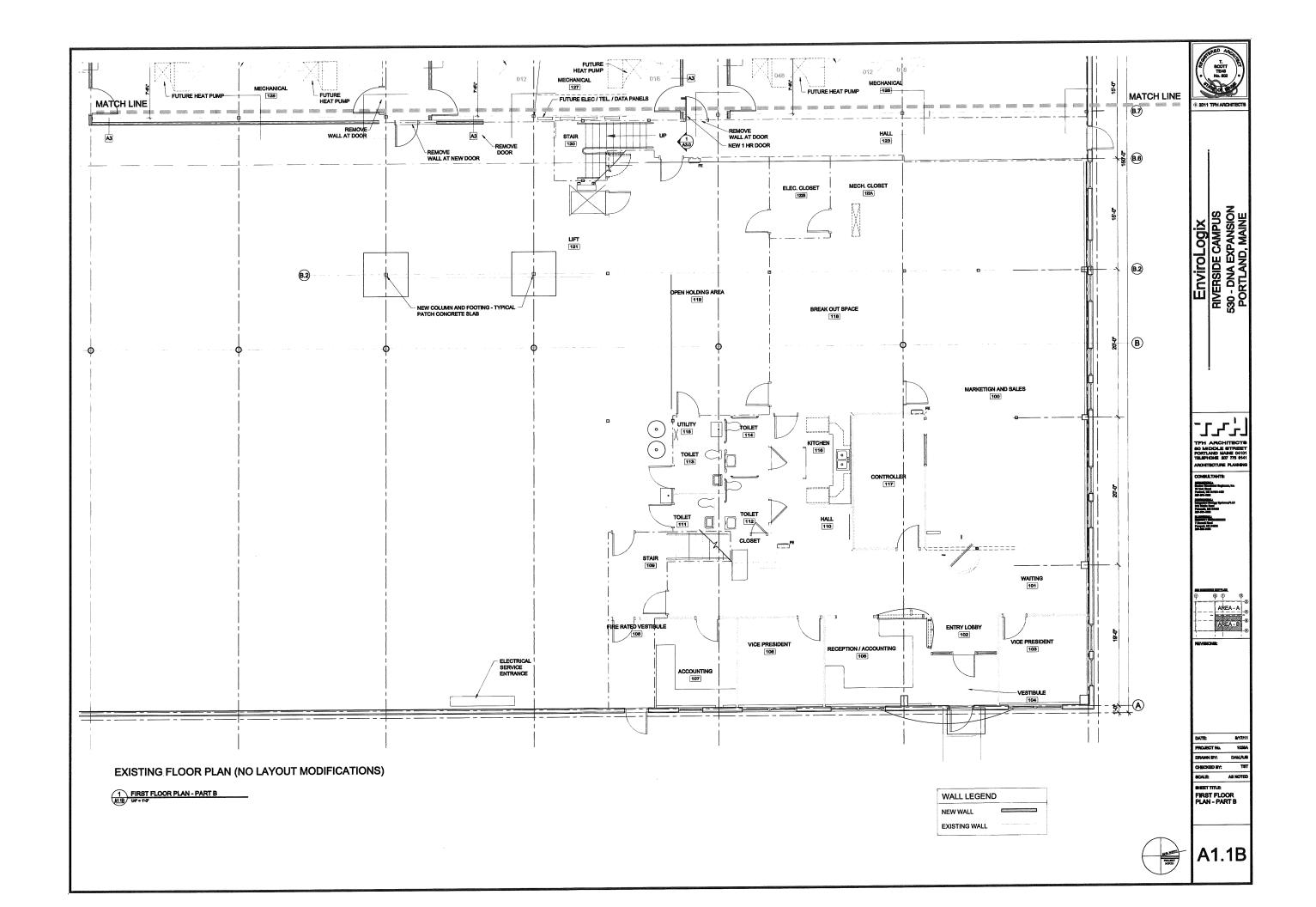
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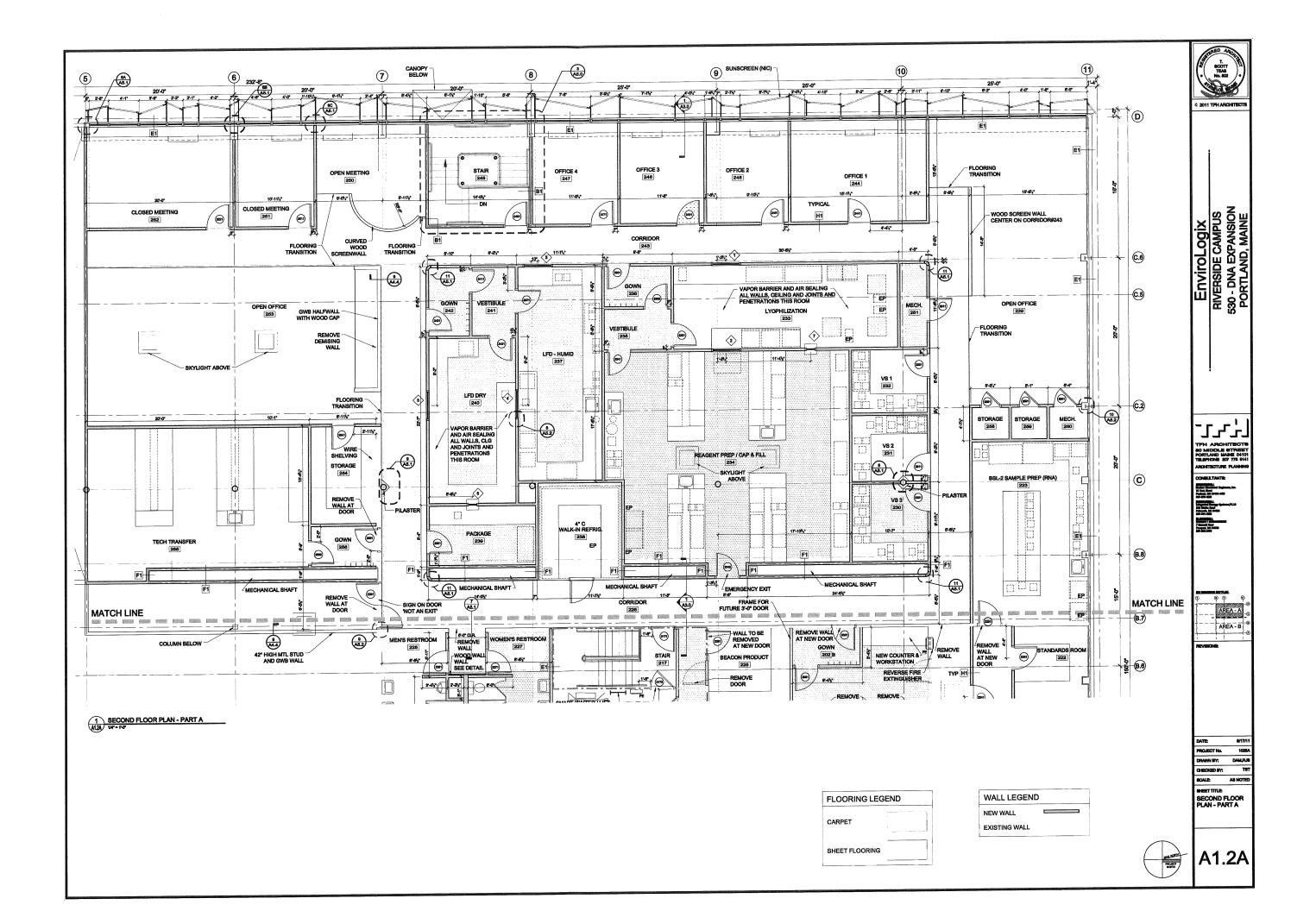
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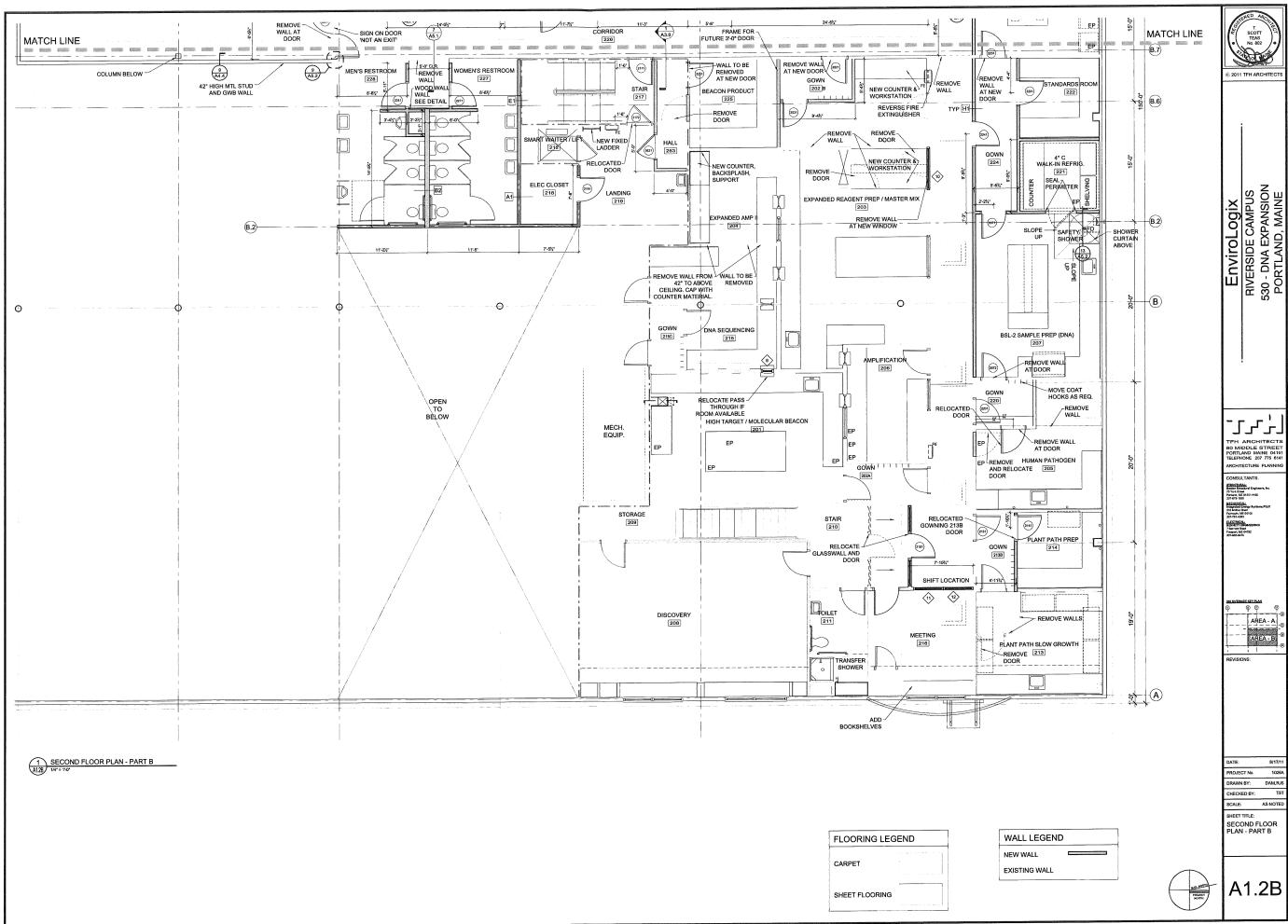
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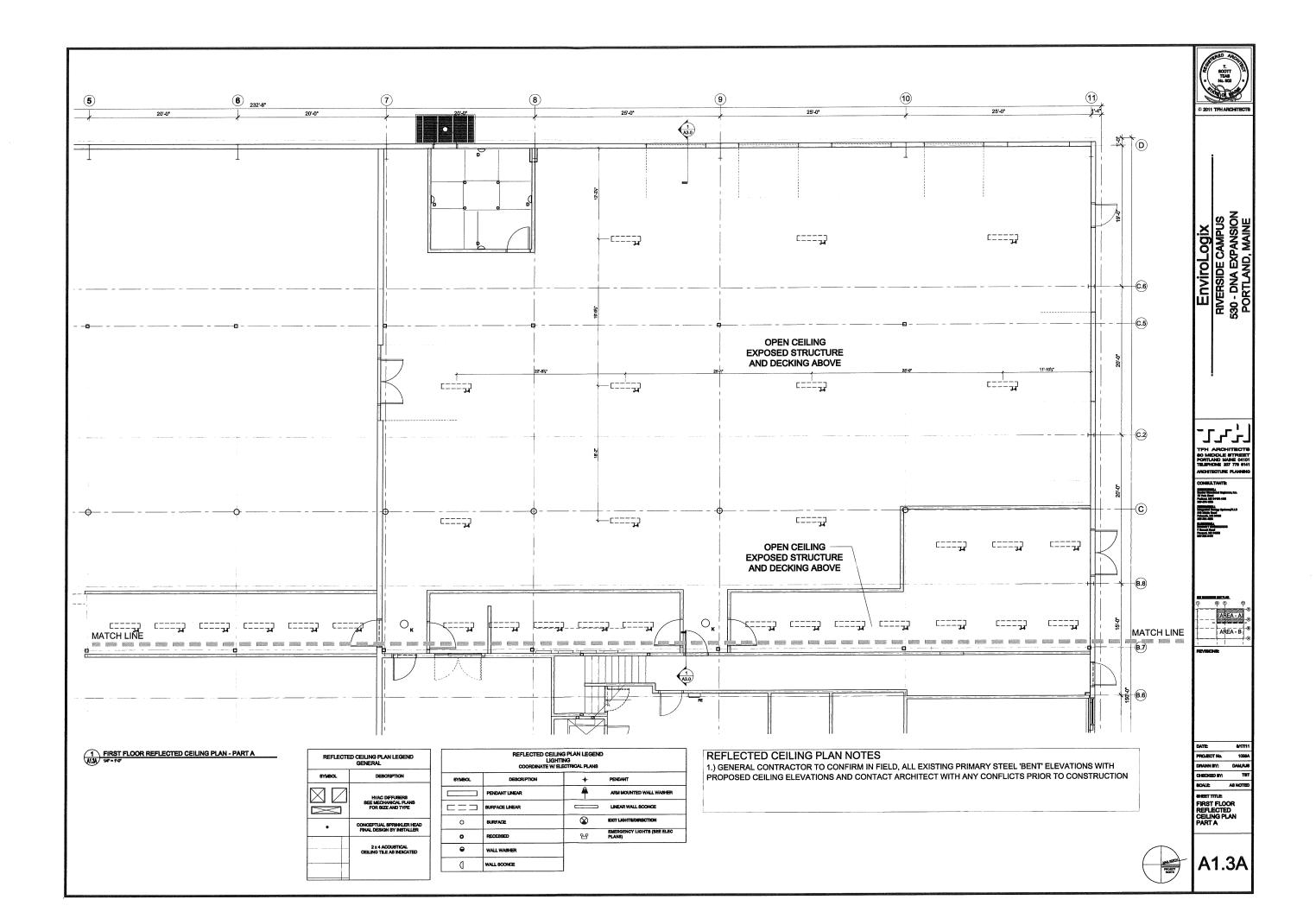
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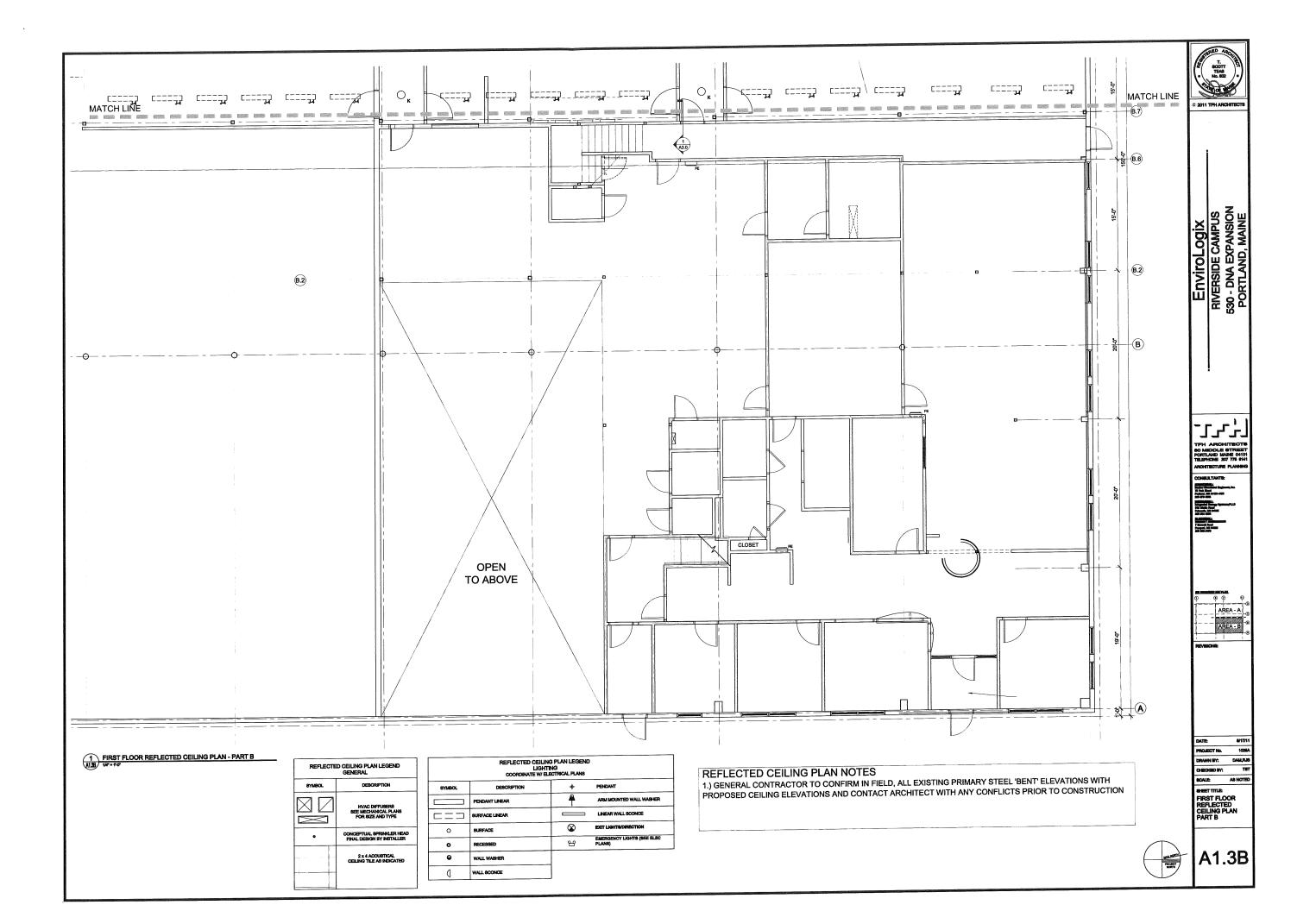


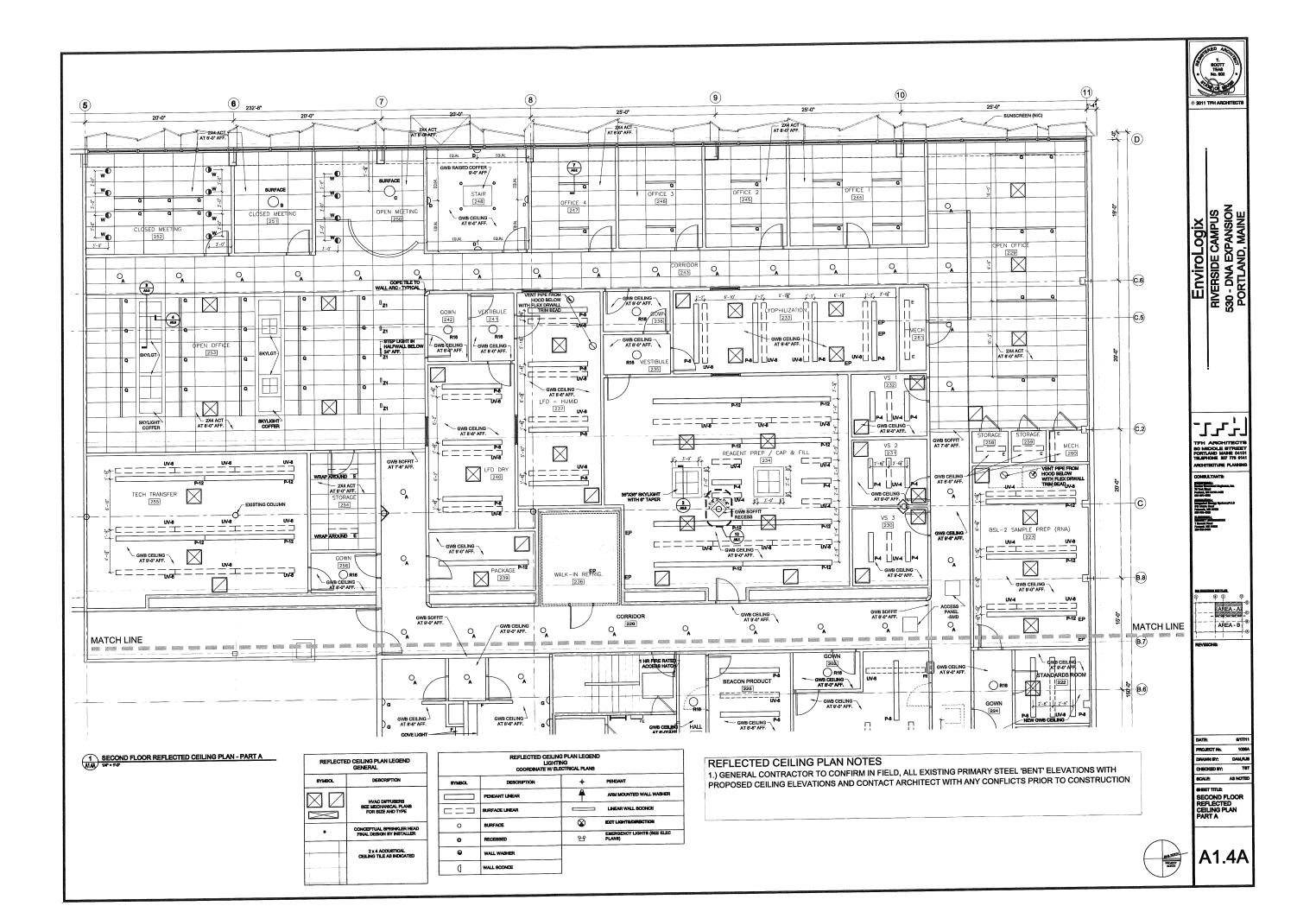


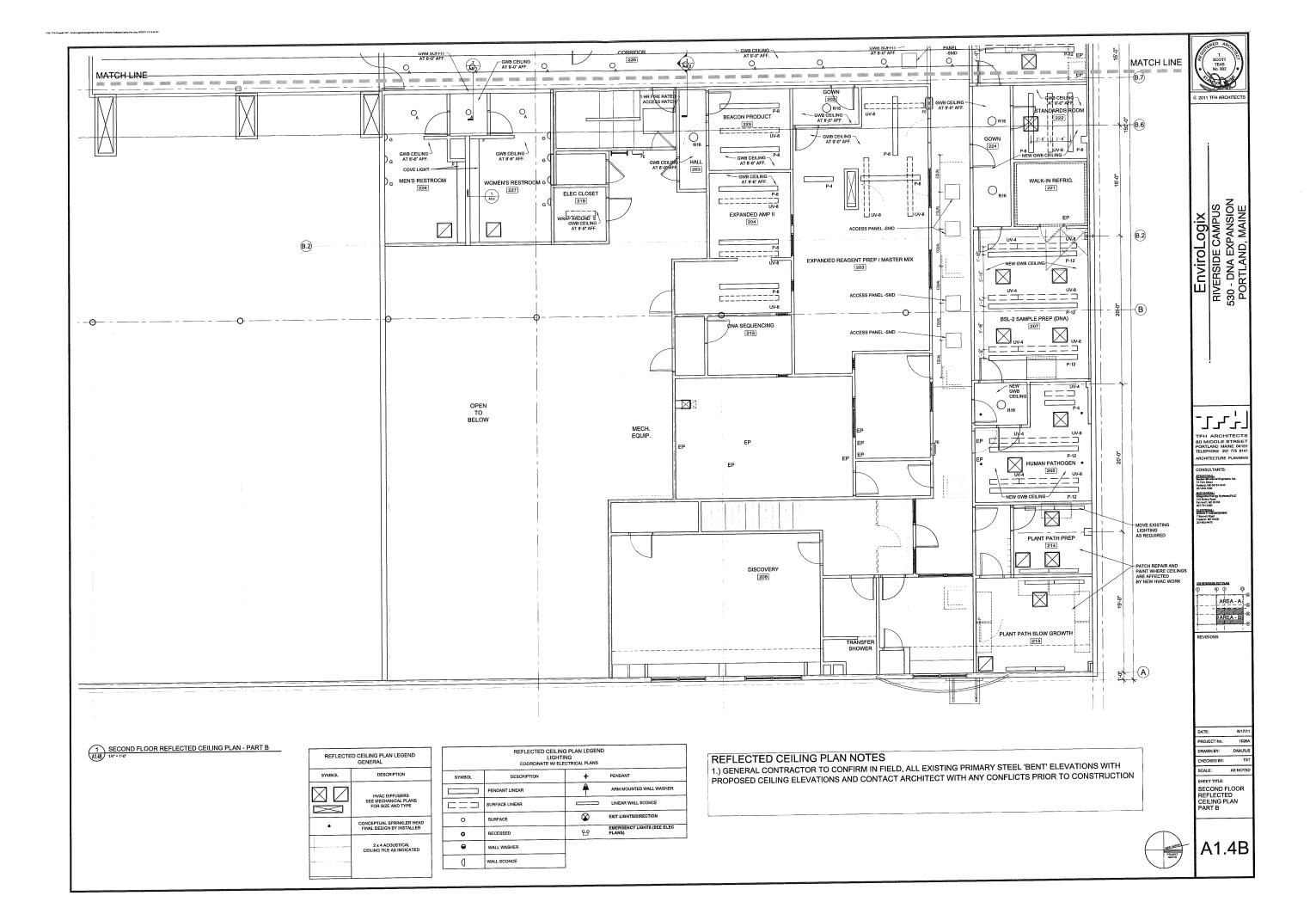


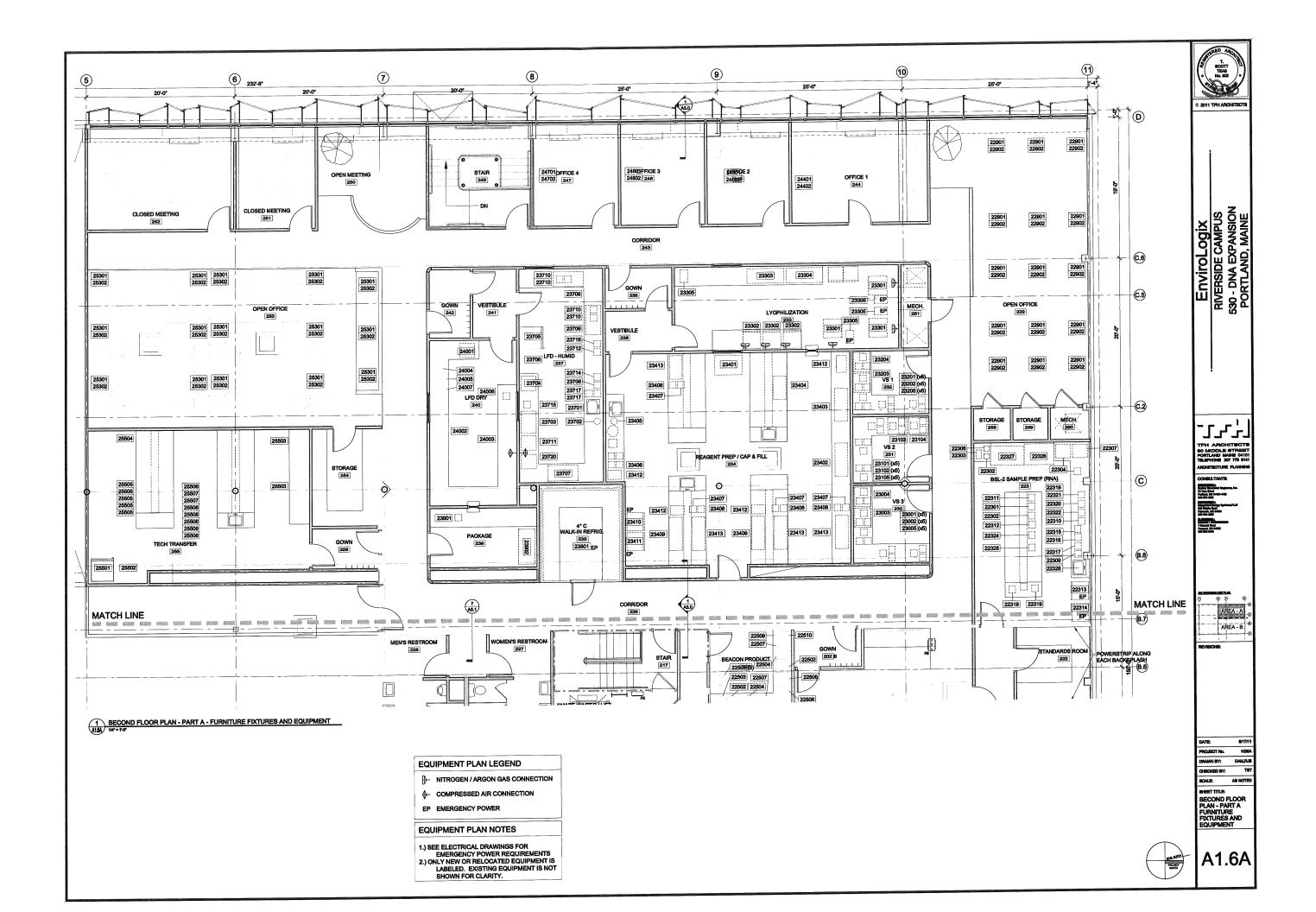


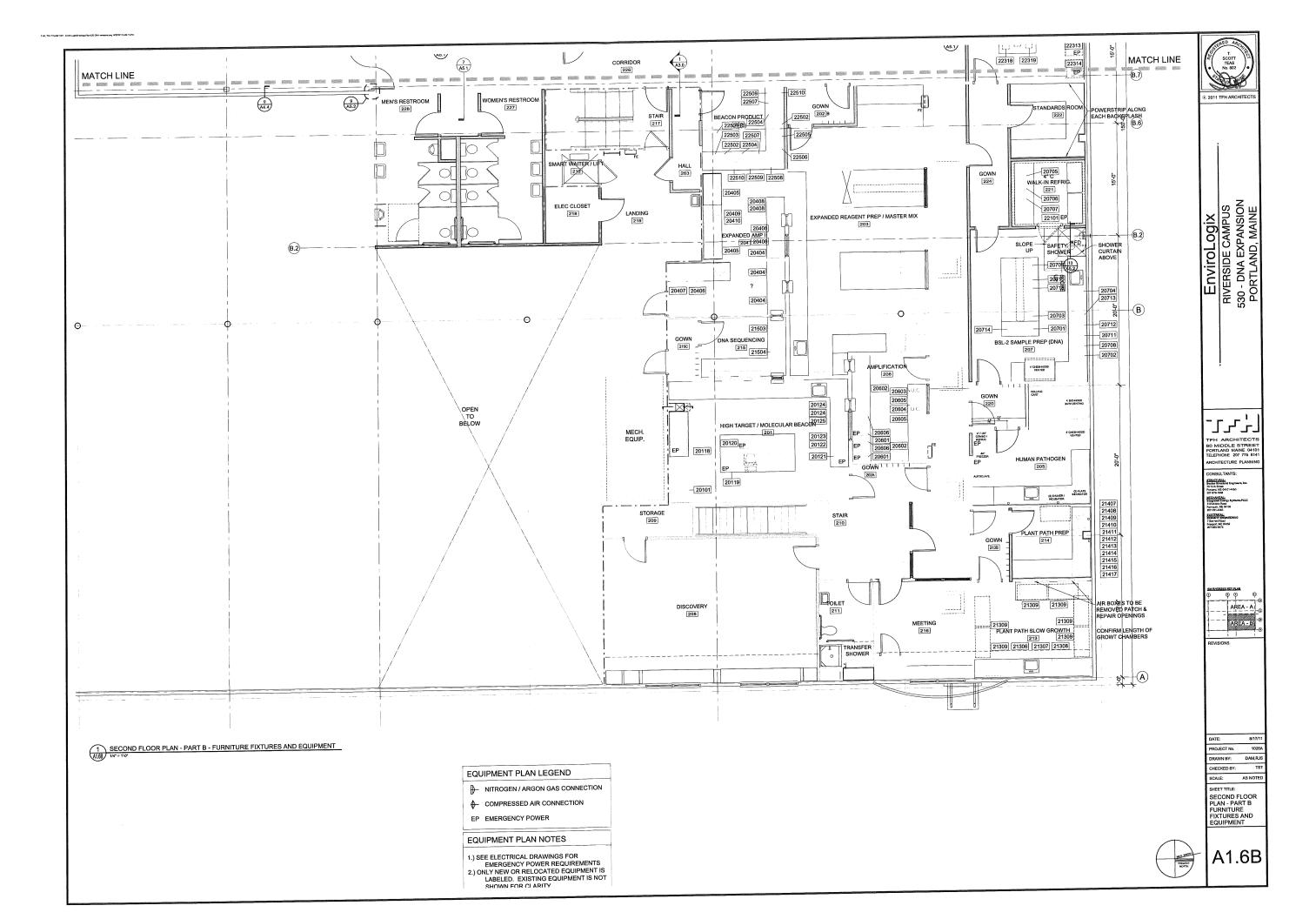


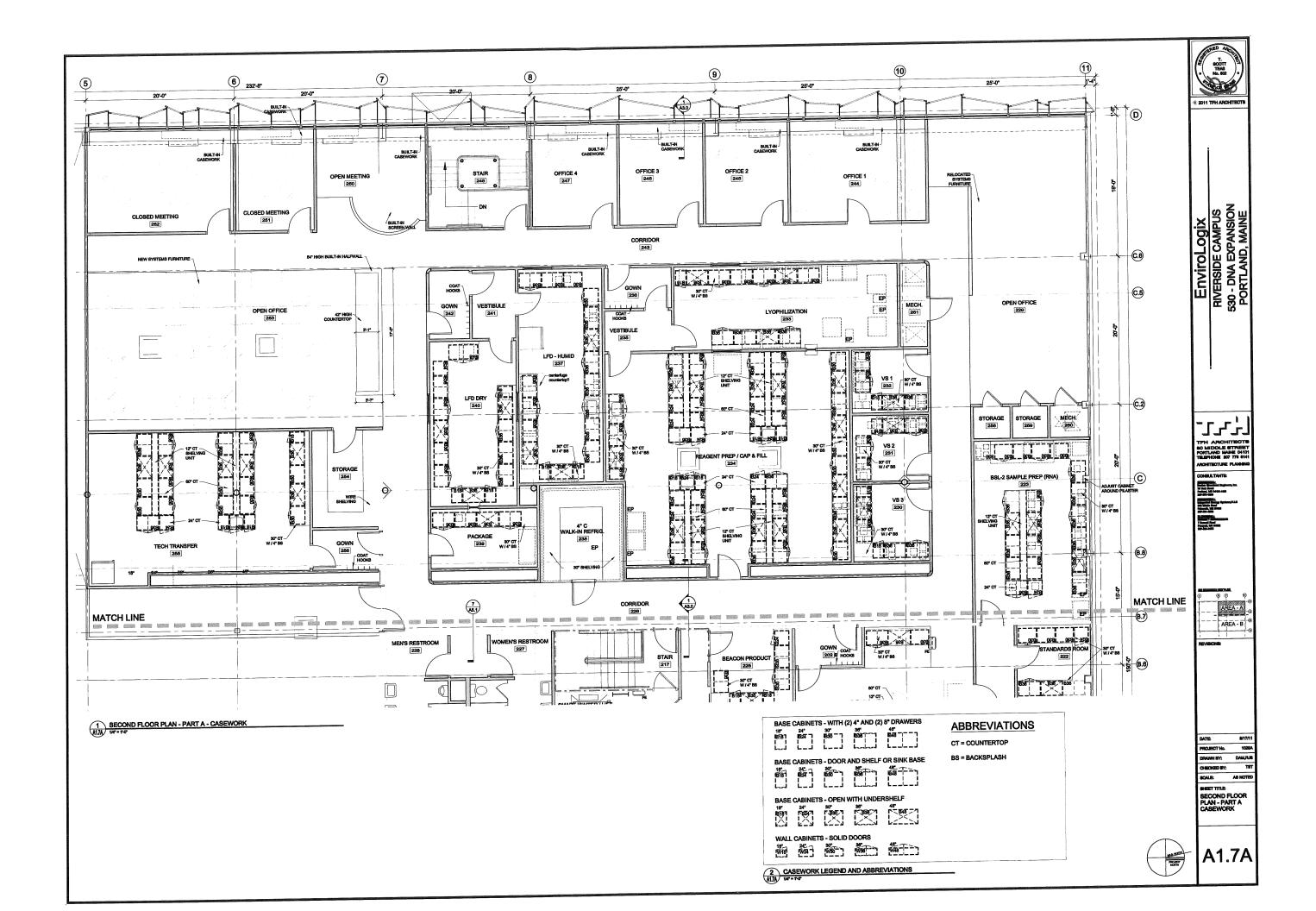


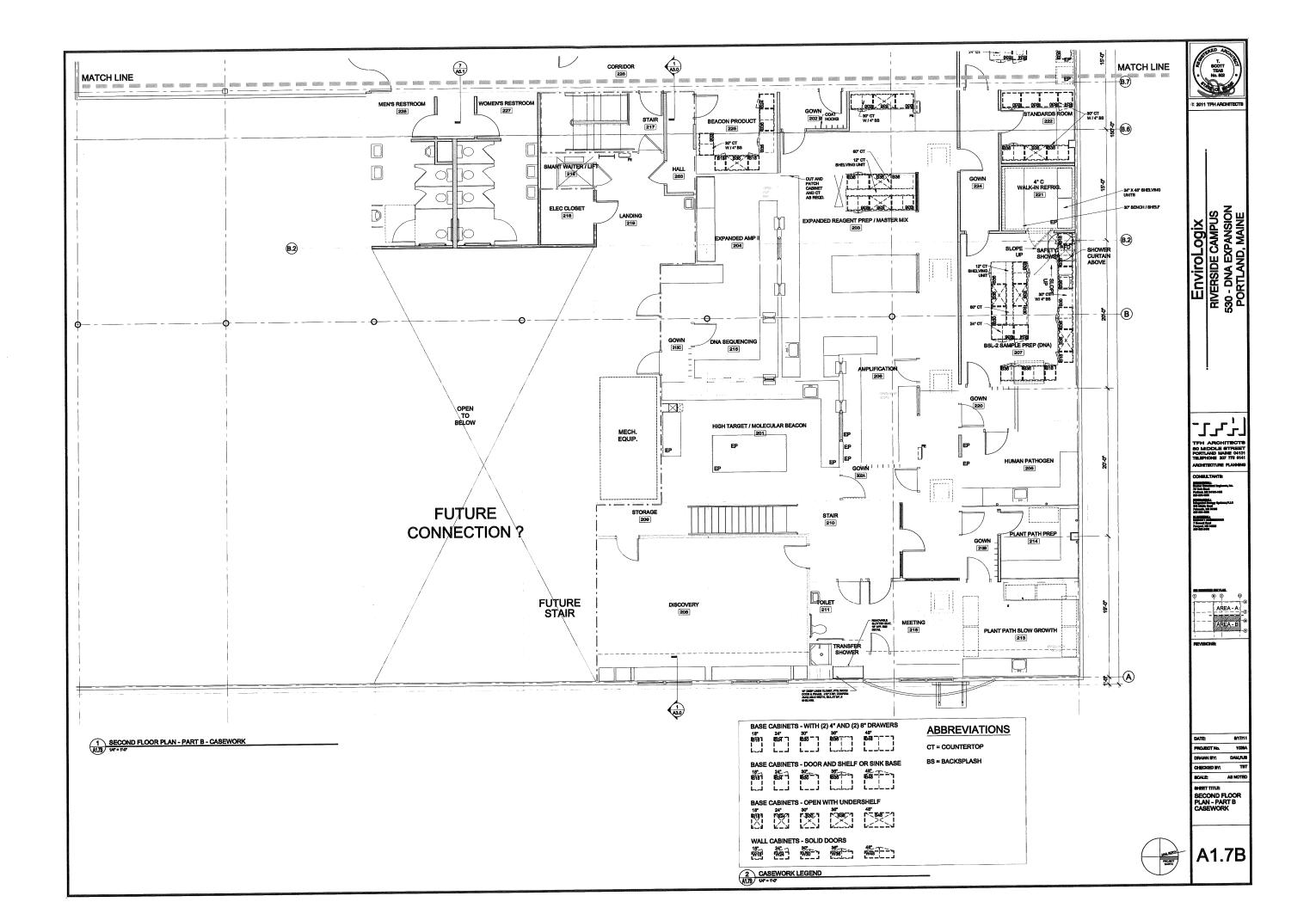


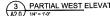


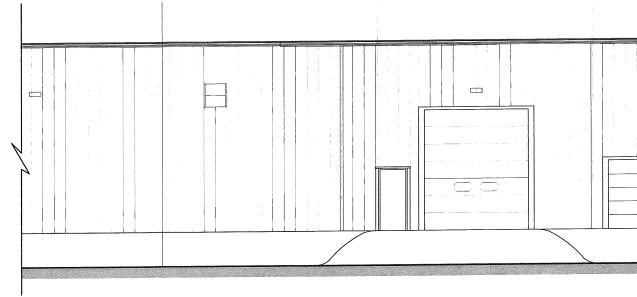


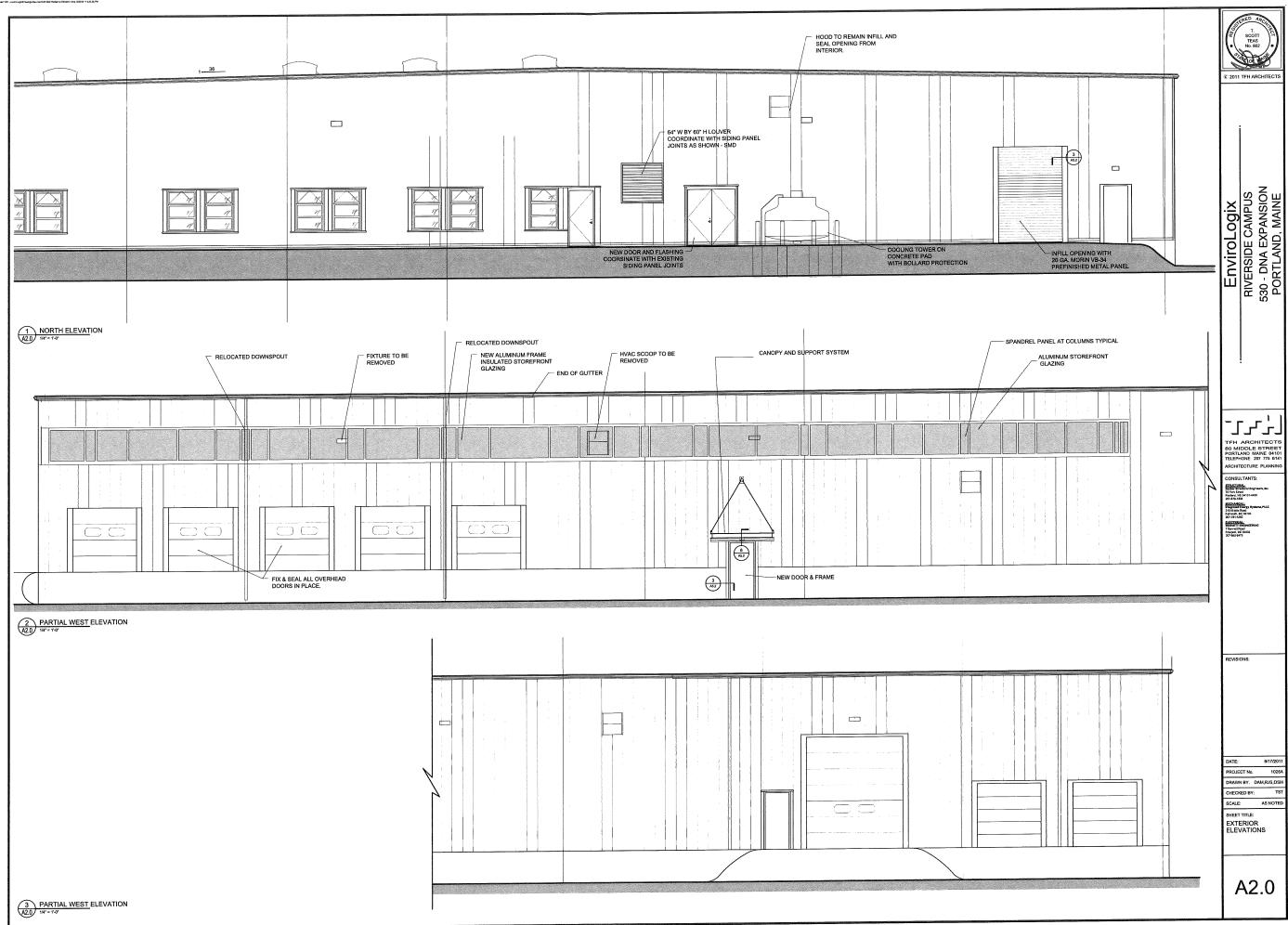


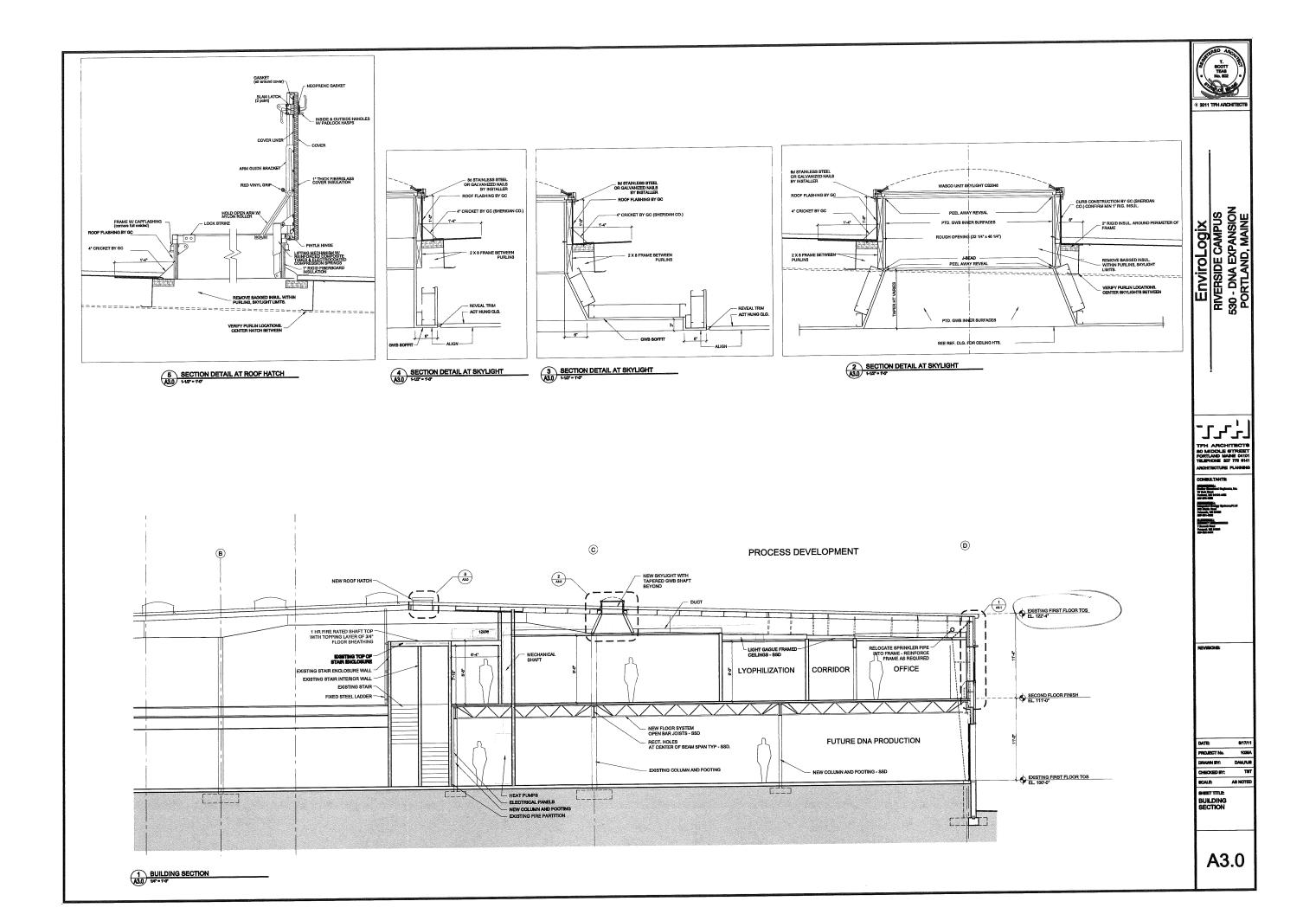


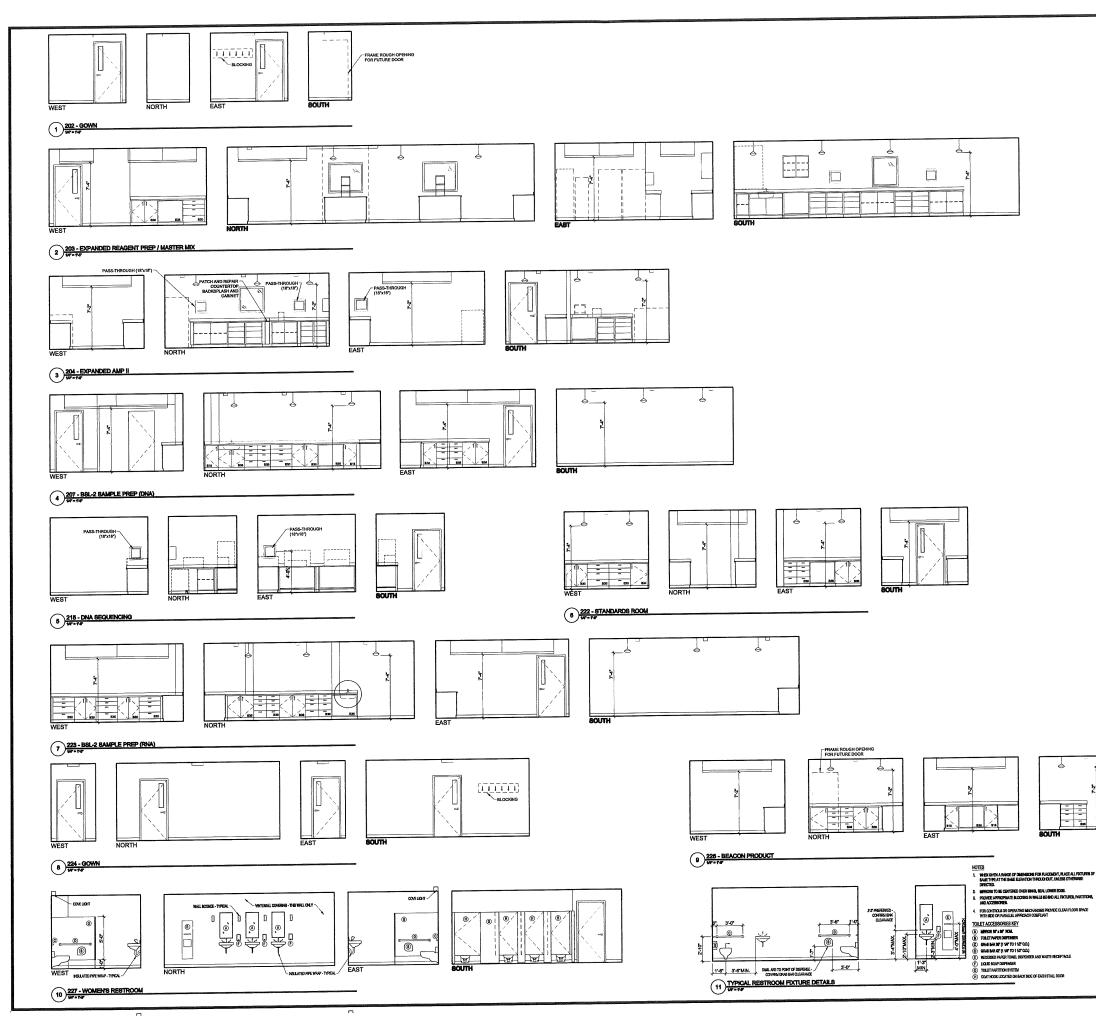






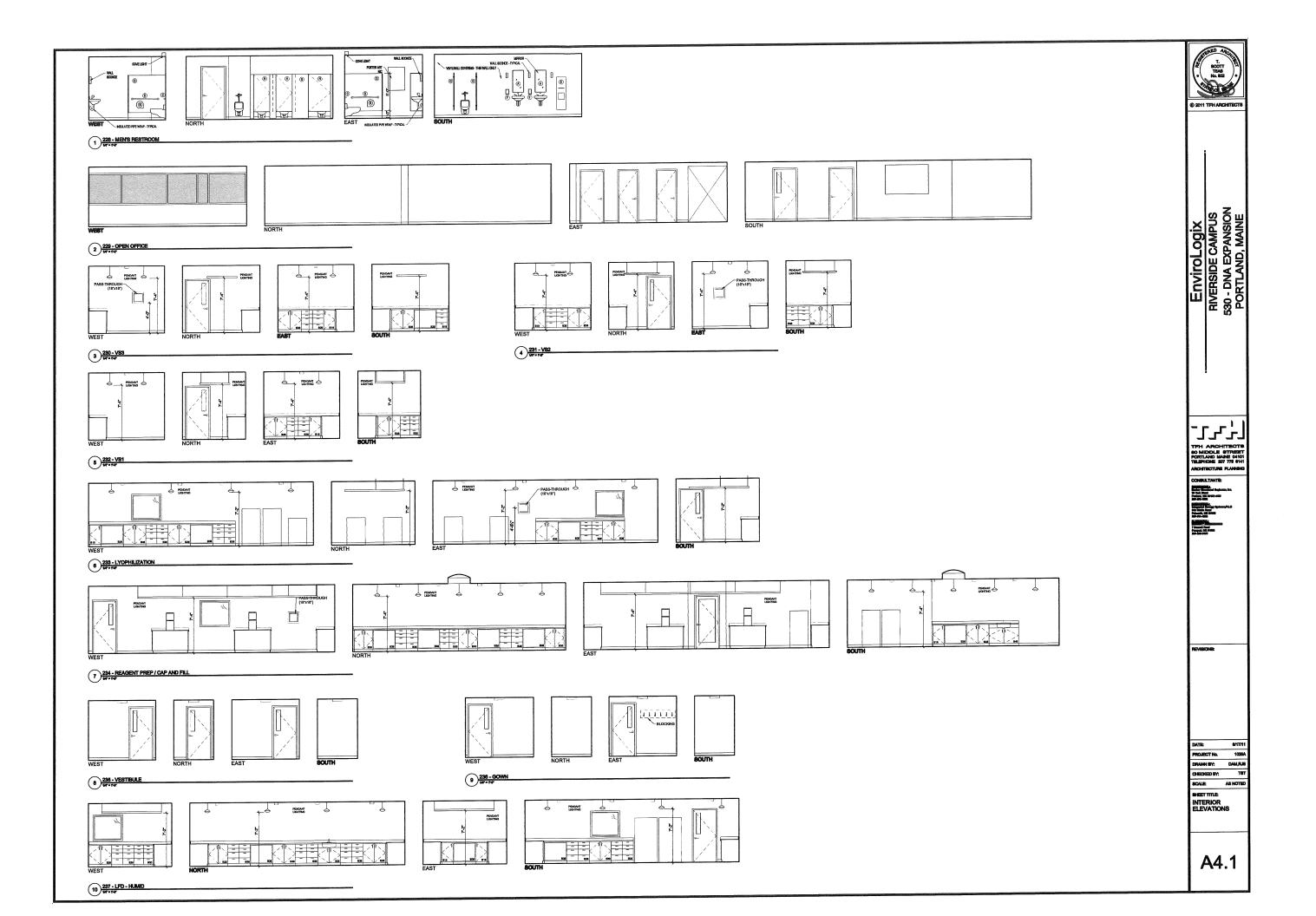


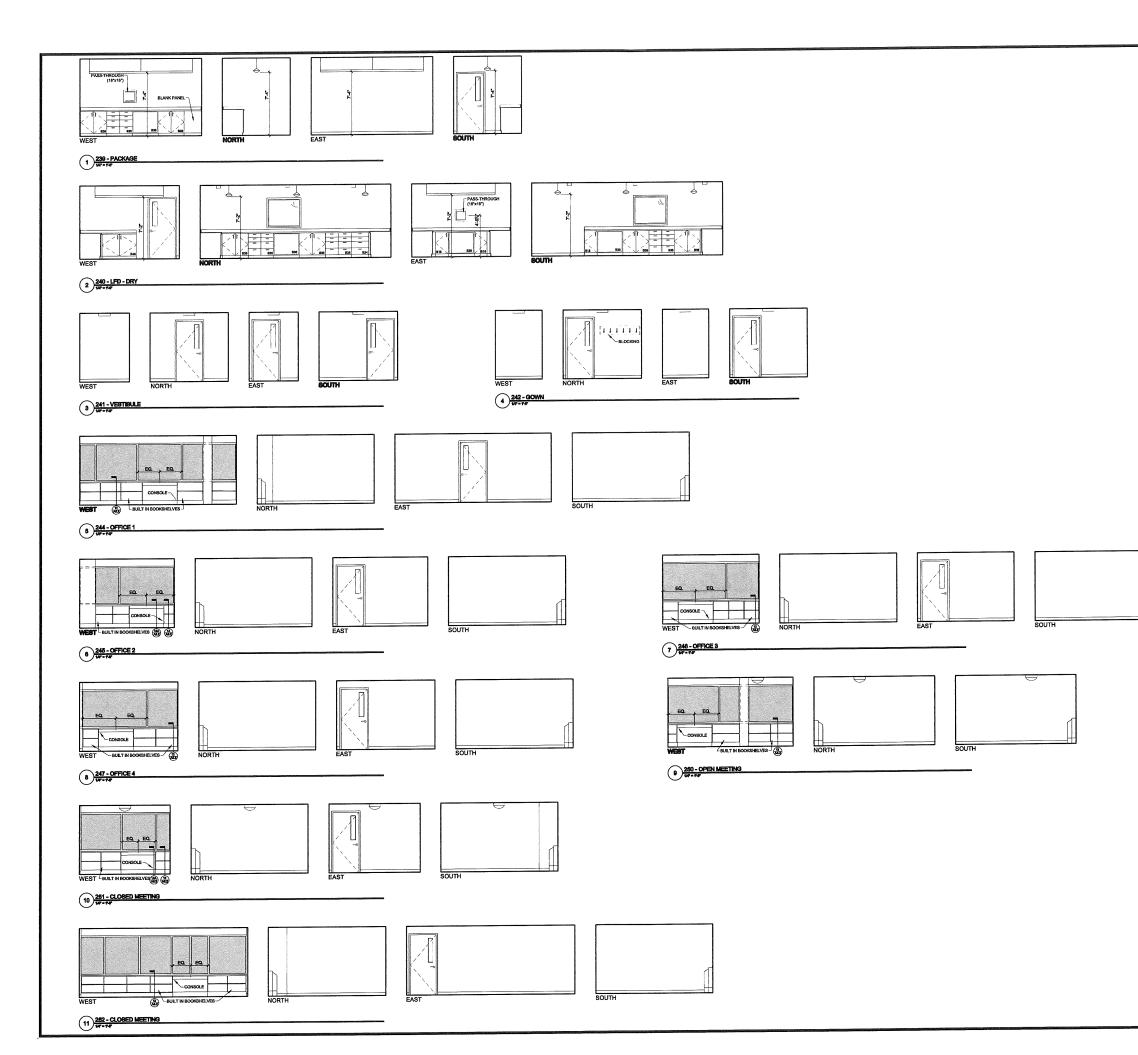




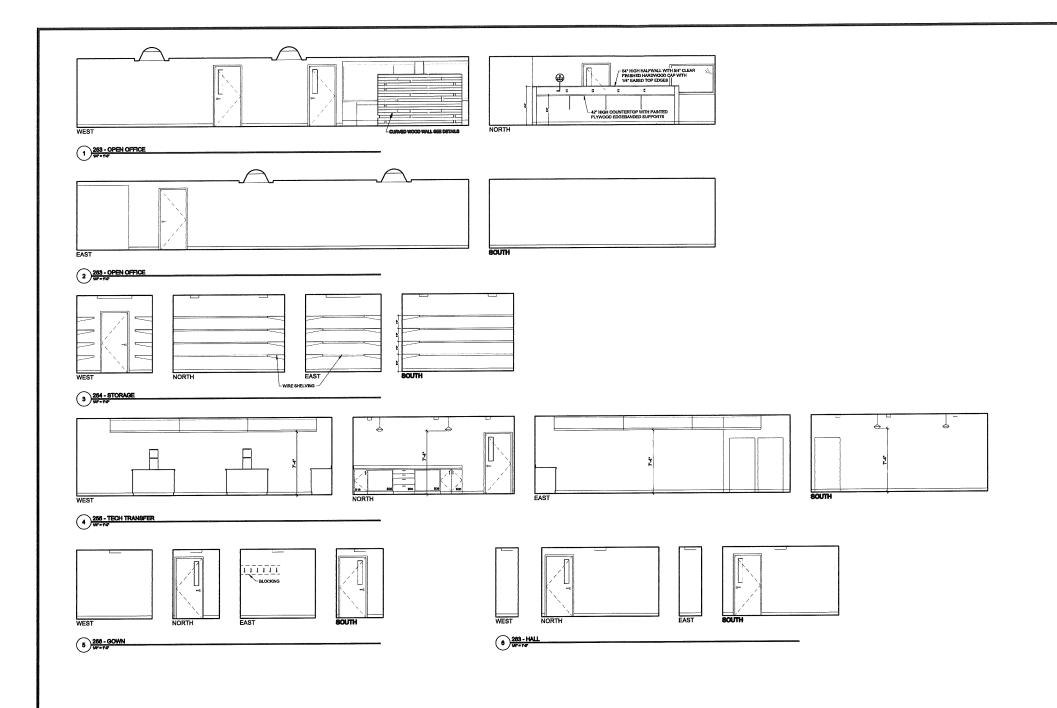




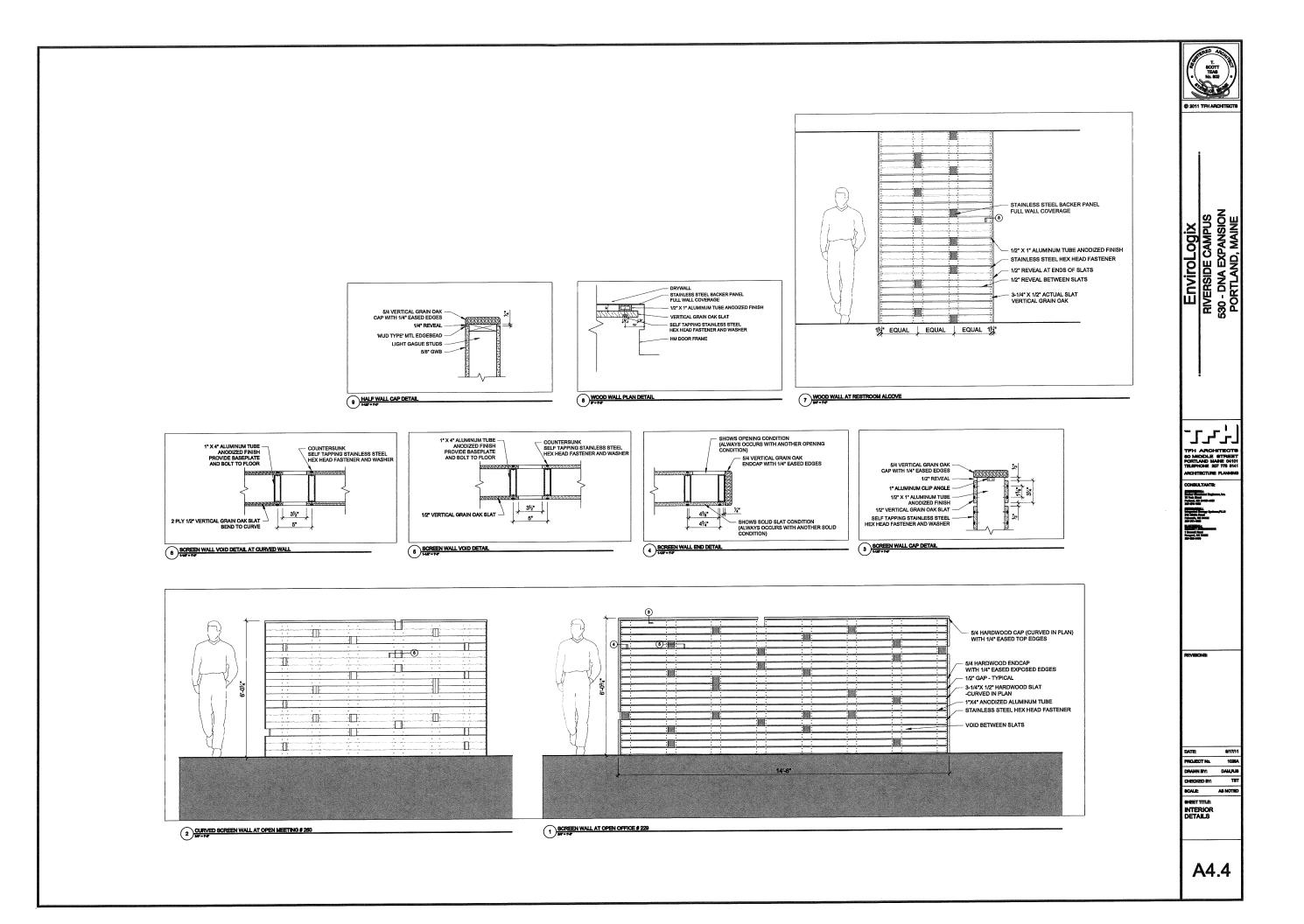


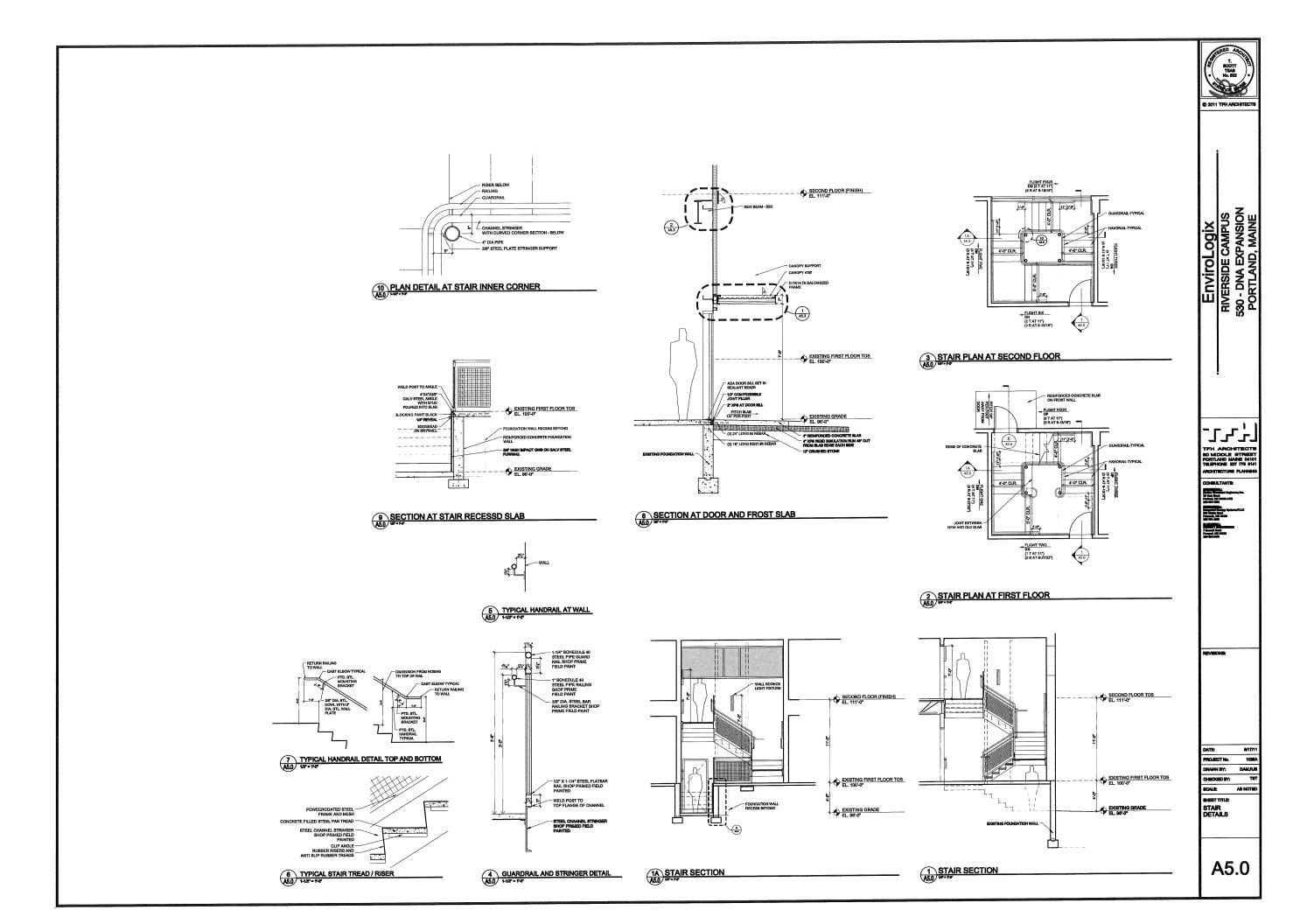


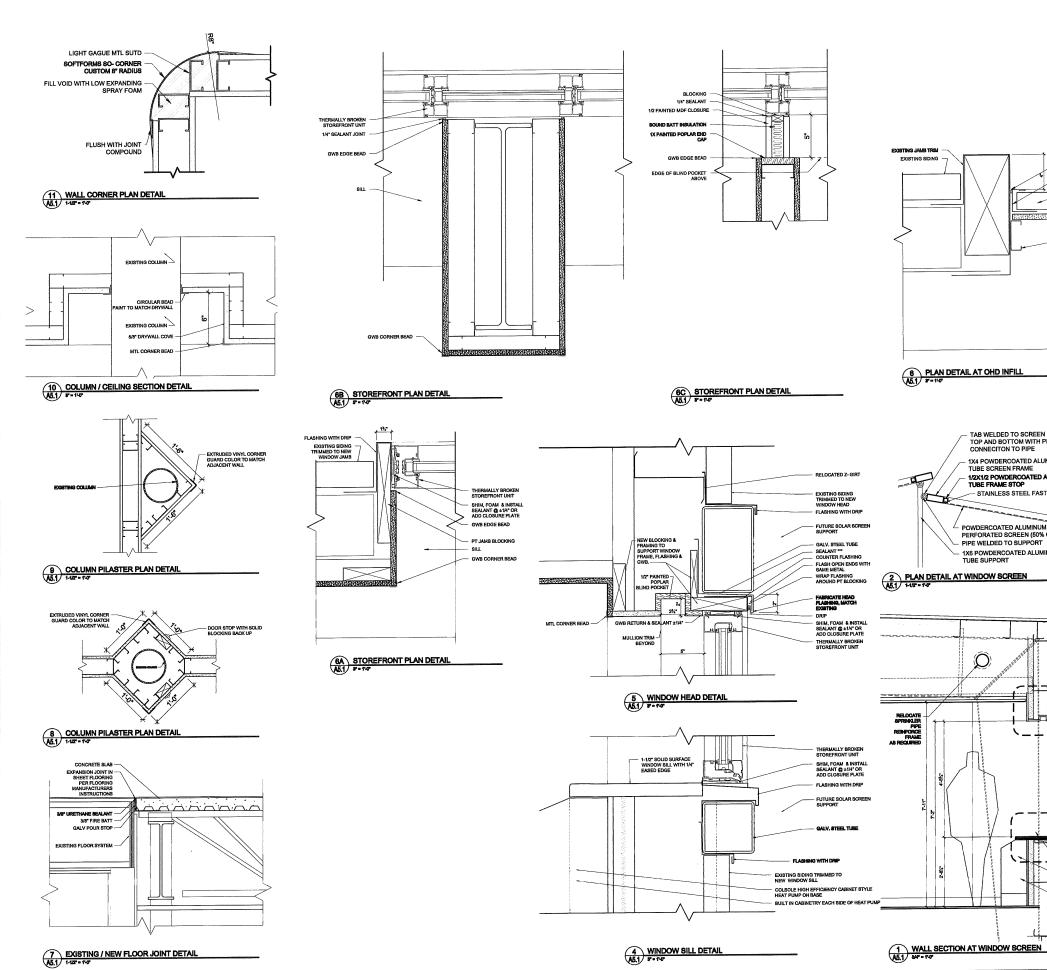
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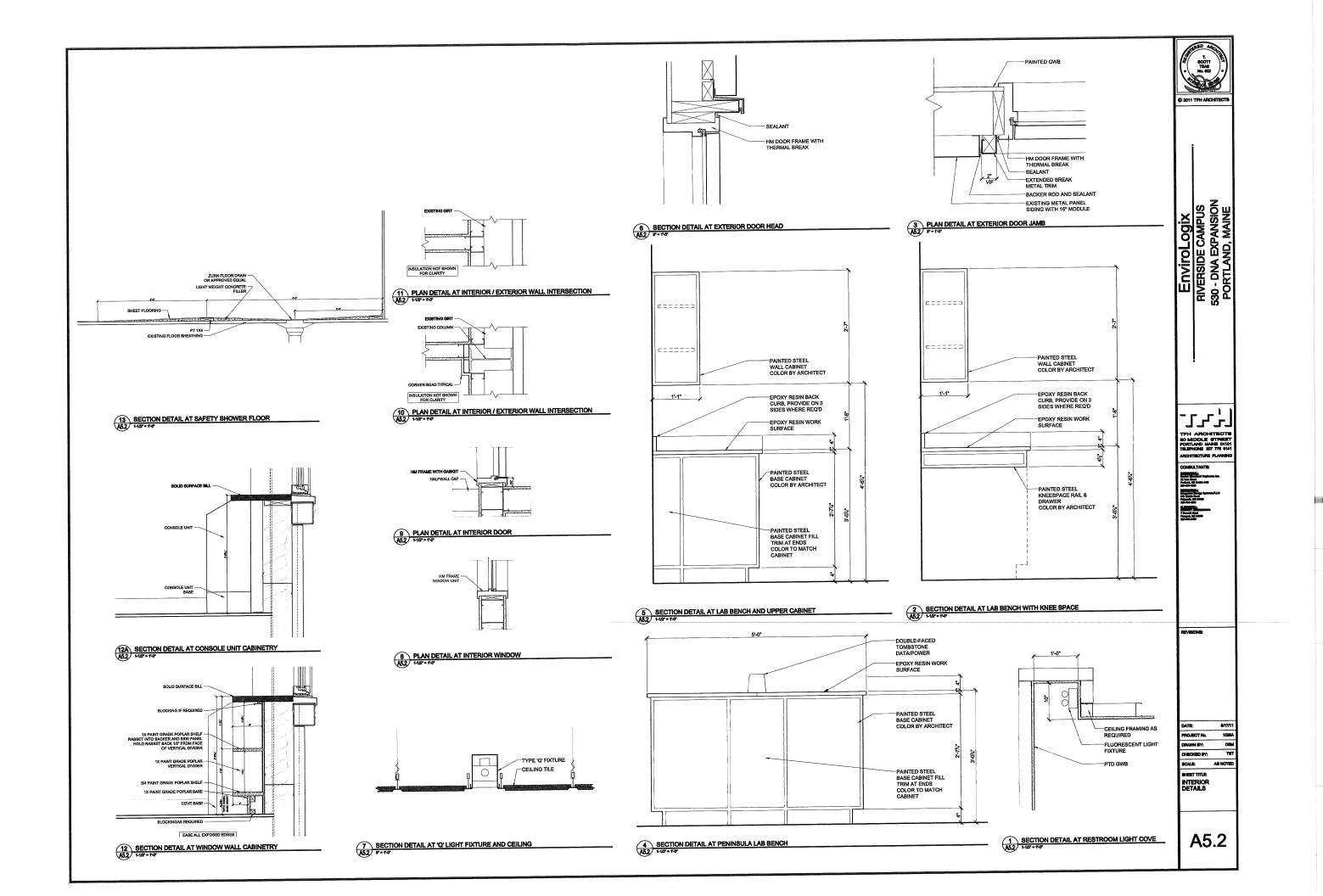


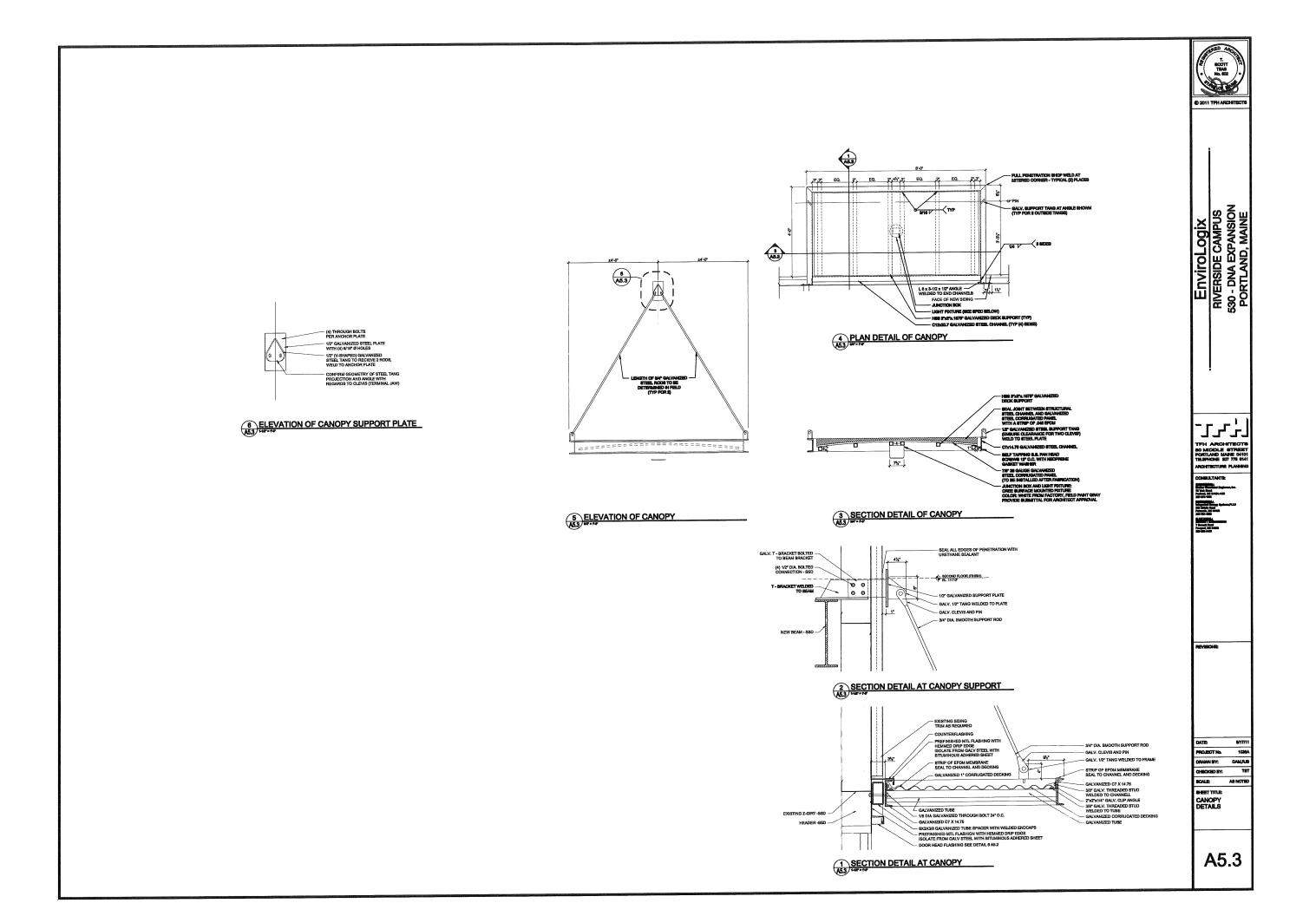




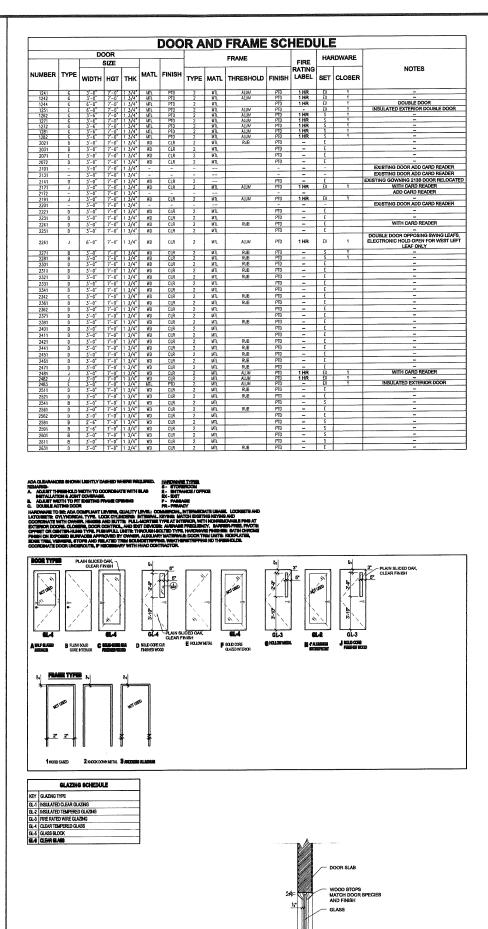


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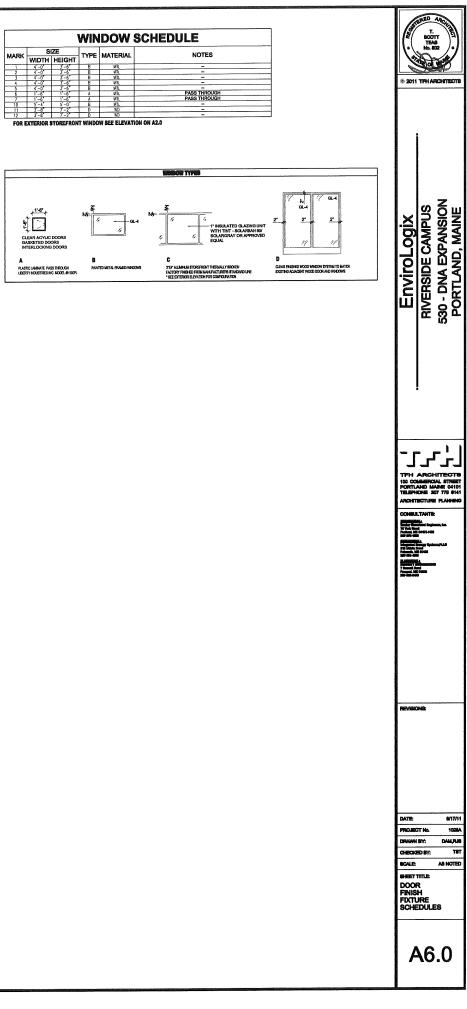


Number	ROOM NAME	FLOO	R BASE			E		CEILING MATL		NOTES
124 125	OPEN WAREHOUSE VECHANICAL	35		6	6 1	1	6,1 1	47 40		
126	WECHANCAL WECHANCAL	38 38	20	1	1	1	1	40 40		
128 202	NECHANCAL GOWN	38 31	20 20	1		1	1	40 40		
203 204	EXPANDED REAGENT PREP / MASTER VID EXPANDED AVP 10	31	20	2	2	2	2	40		
205	HUMAN PATHOGEN BSL-2 SAWPLE PREP (DNA)	31 31	20 20		2		2	40 40		
208	DISCOVERY PLANT PATH SLOW GROWTH	31	20			2	2	40		
214 215 218	PLANT PATH PREP DNA SEQUENCING	31 31 31	20 20 20	2	2	2	2	40 40 40		
218 221 222	ELEC CLOSET WALK-IN REFRIG. STANDARDS ROOM	- 31	20	1	1 2	~	1 2	40	GWB	CEILING AND WALL FINISH AROUND UN
223 224	BSL-2 SAVPLE PREP (RNA) GOWN	31	20 20	2	2	2	2	40 40		
225 226	BEACON PRODUCT CORRIDOR	31 31	20 20	2	1	1	2	40 40		
227	WOMEN'S RESTROOM MEN'S RESTROOM	31	20		1	1	1	40		
229 230	OPEN OFFICE	30	20 20 20		1	1 2 2	1	43 40 40		
231	VS 2 VS 1	31 31 31	20 20 20	2	2		2	40 40 40		
233 234 235	LYOPHILIZATION REAGENT PREP / CAP & FILL VESTIBULE	31	20 20 20 20	2	2	2	2	40 40 40		
236	GOWN LFD - HUMD	31	20	1	1 2		1 2	40		
238 239	WALK-IN REFRIG. PACKAGE	- 31	20 20	1	1	-	1	40 40	CAB	CEILING AND WALL FINISH AROUND UN
240 241	LFD DRY VESTIBULE	31 31	20 20	2	2	2	2	40 40		
242 243	GOWN CORRIDOR	31	20	1	1	1	1	40		
244 245	OFFICE 1 OFFICE 2	30 30	20	1	1		1	43		
246 247 248	OFFICE 3 OFFICE 4 STAIR	30 30 33	20 20 20 20	1	1 1		1	43 43 43		
248 250 251	STAR OPEN MEETING CLOSED MEETING	33 30 30	20 20 20 20	1	1	1	1	43 43 43		
252 253	CLOSED MEETING OPEN OFFICE	30 30/31	20	1	1	1	1	43		SHEET WINL AT CORRIDOR LOOP
254 255	STORAGE TECH TRANSFER	31	20	1 2	1	1 2	1	43 40		
256 258	GOWN STORAGE	31	20 20	1	1	1	1	40 40		
259 260 261	STORAGE MECH. MECH.	31 31 31	20 20 20	1	1	1	1	40 40 40		
8 EXISTI 9 EXISTI 10 PLAST 11 8HEET	NG BRICK - PAINTED BY GC NG CMU UNIT WALL NG STONE FOUNDATION WALL ER - PAINTED BY GC STEEL, CLEAN AND PAINT									
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Image: Second State RUBBE R02 RUBBE R03 RUBBE R04 RUBBE R04 ROTU R05 RUBBE R07 RUBBE R00 RUBBE	R COVE BASE #1 R COVE BASE #2 R COVE BASE #2 BED B WOOD D WOOD T COVE BASE P3 B WOOD T COVE BASE P3 T T E - 1 , COLLET P3 T T E - 2 , CONMERCIAL GRADE SED T T E - 1 , CONMERCIAL GRADE T T E - 1 , CONMERCIAL GRADE T T E - 1 , CONMERCIAL GRADE T E - 1 , C - 1 , 	30 		SSUF			P/6	GWROOL W COCCA WATT/OT 5724 RANDOM 802	CHI ME H KOLE, W -2	
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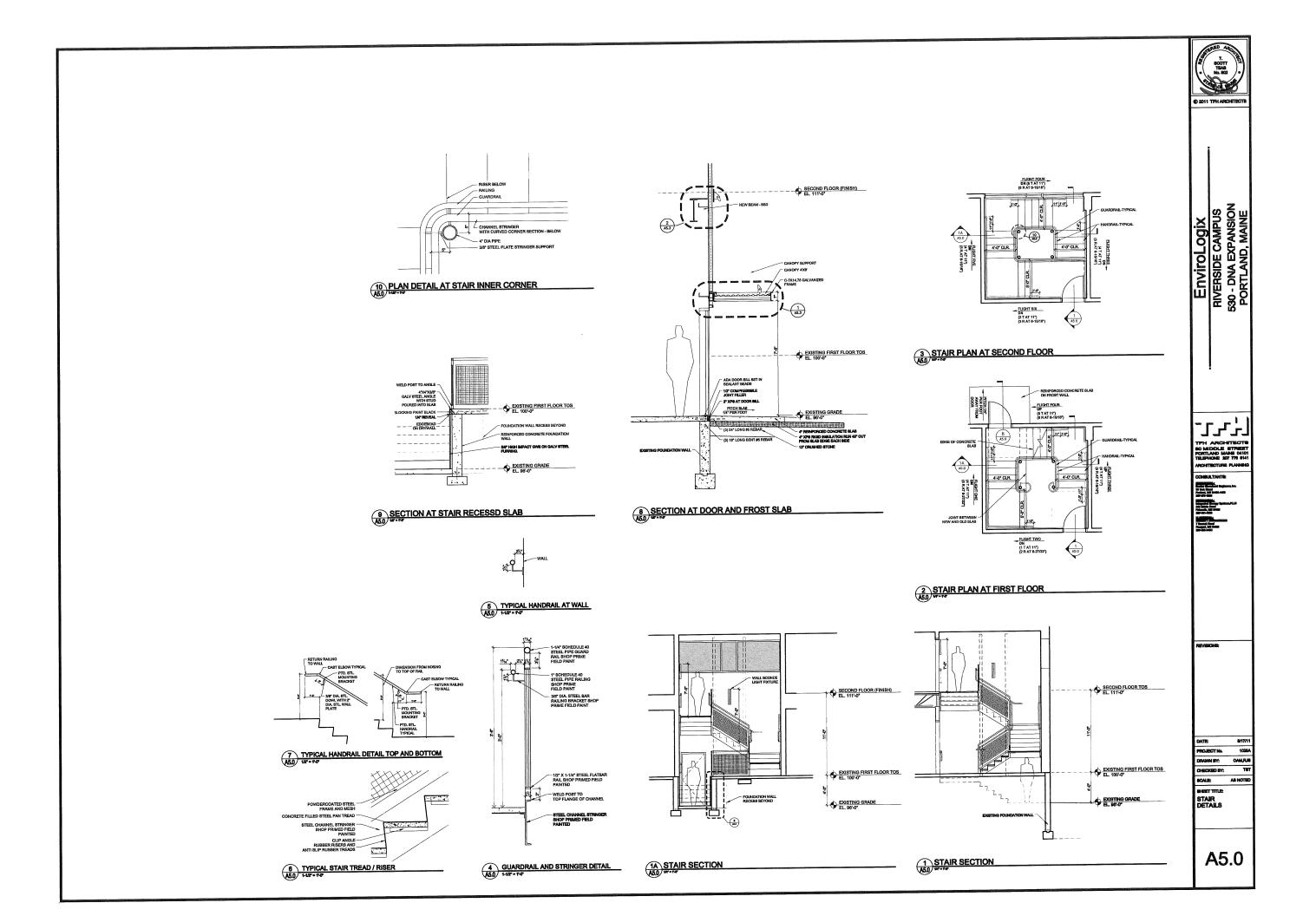
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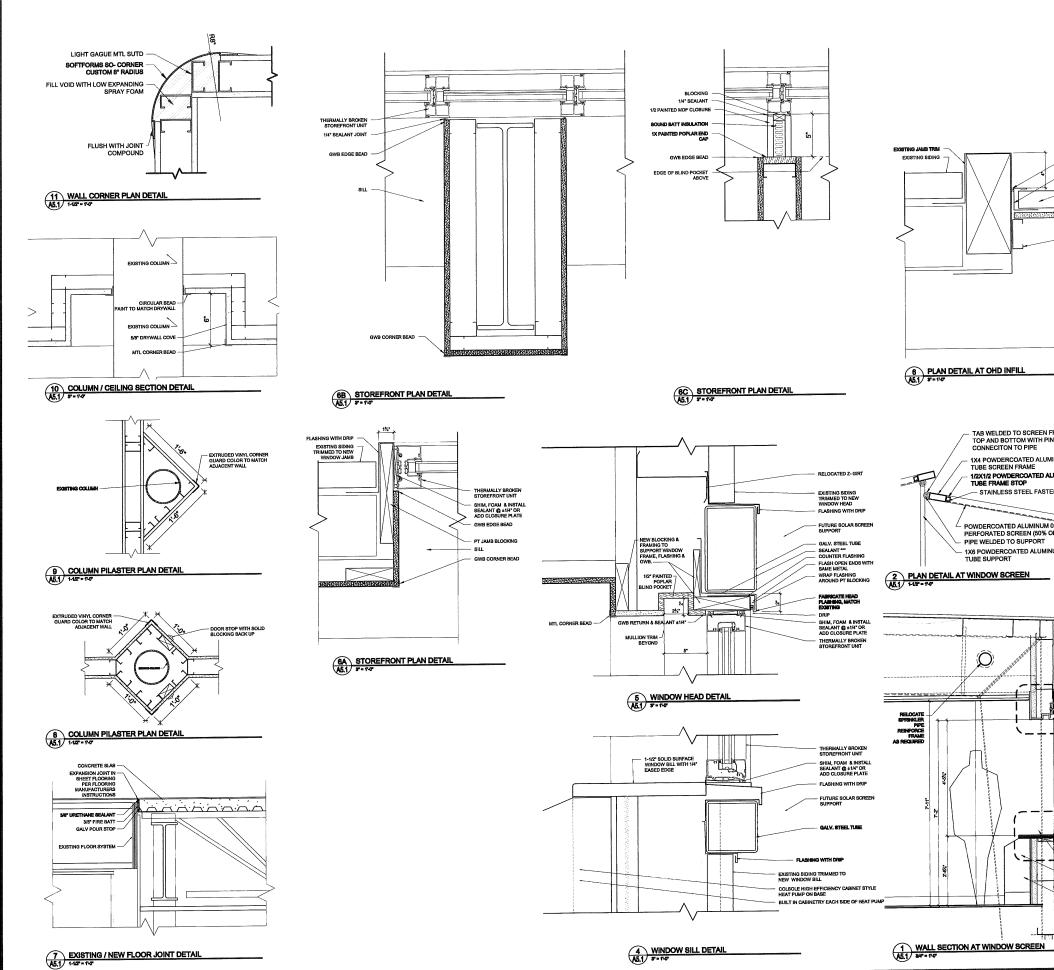
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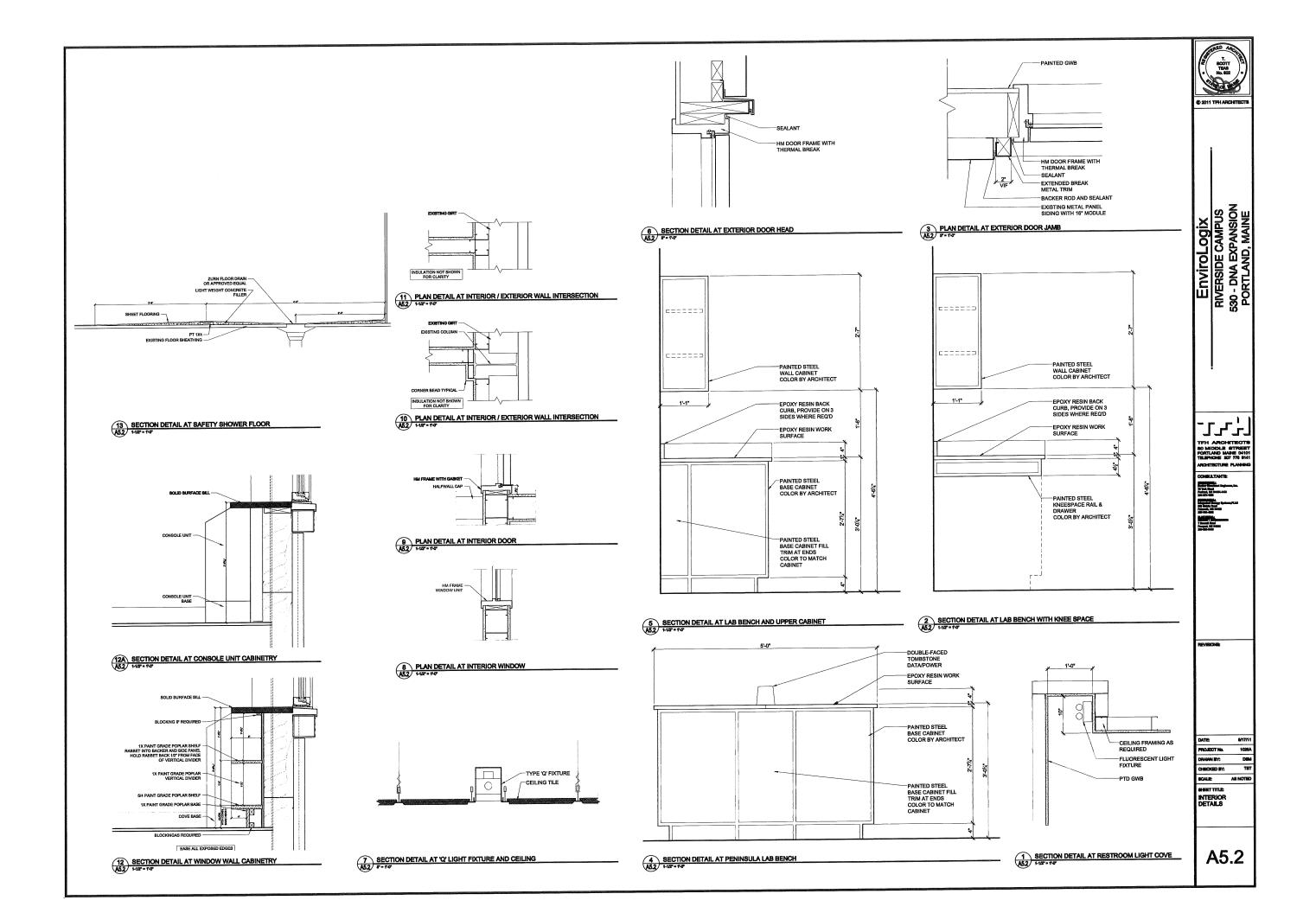
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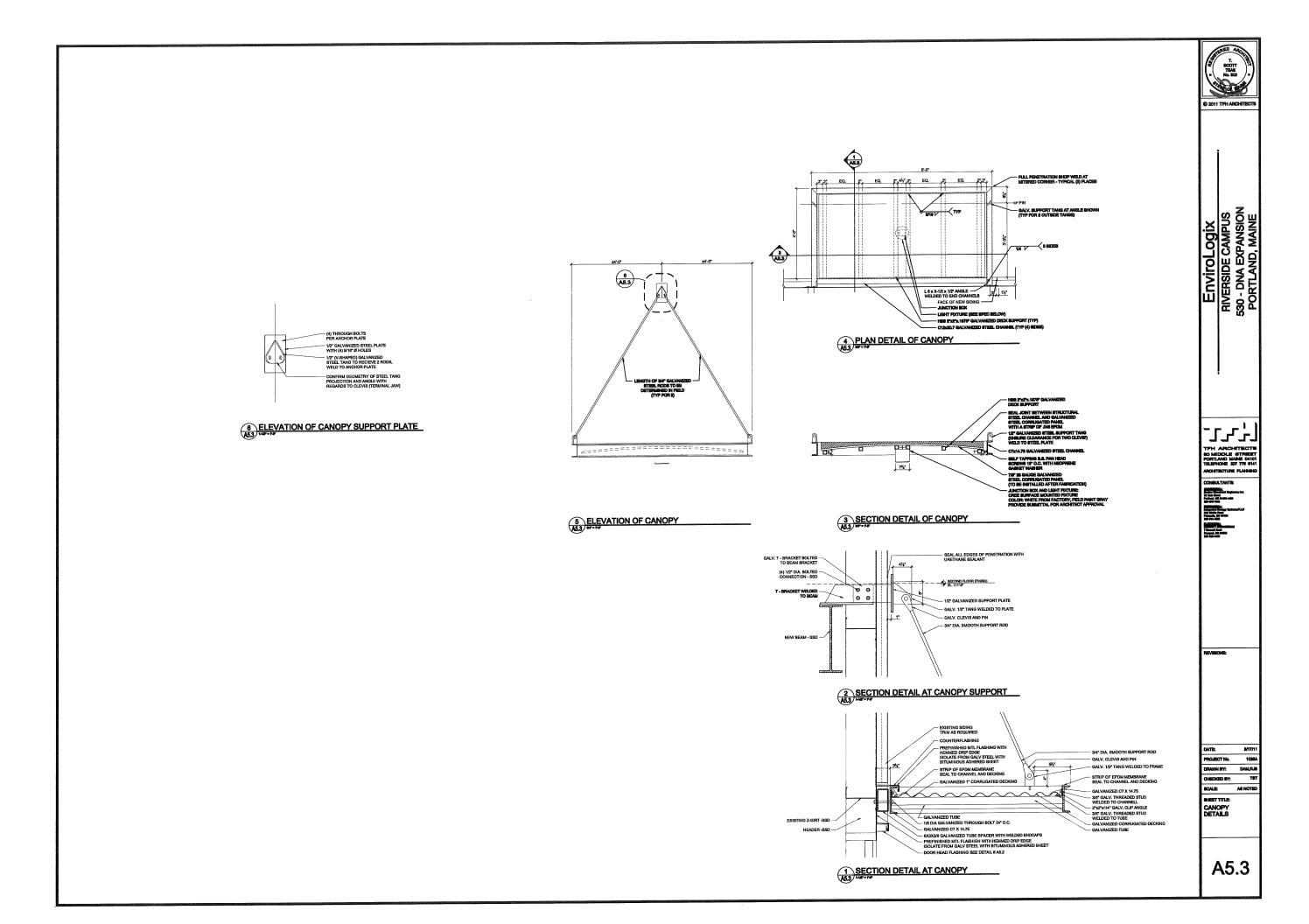
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TECTURE PLANNING
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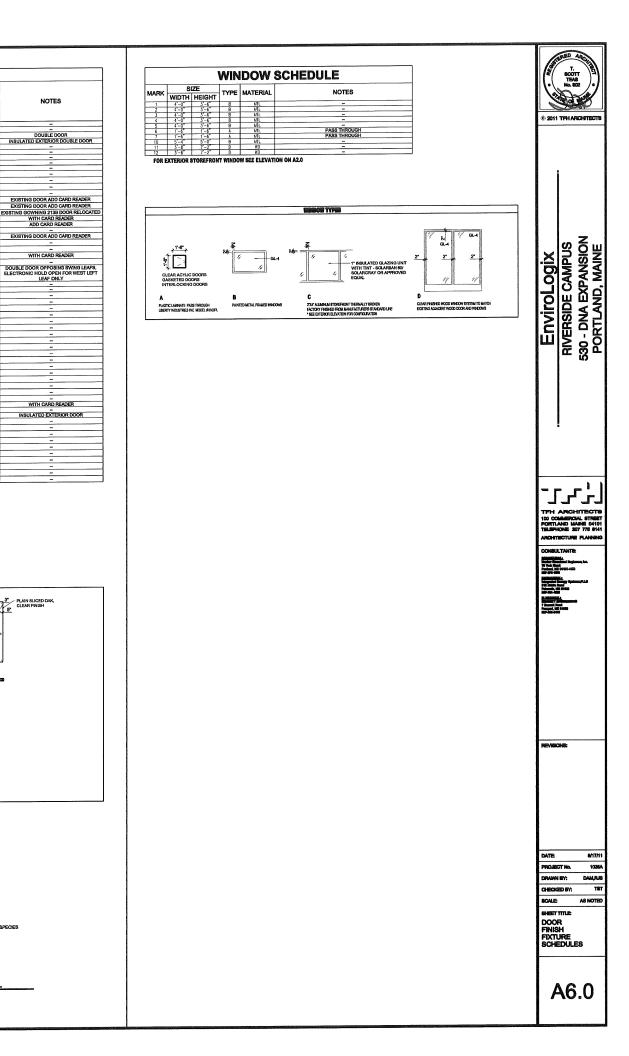


		A 2011 THH ARCHITECTS
ST GEALANT AND BACKER NOD PREFINSHED METAL J-TRIM WITH HEMMED EDGE PREFINSHED METAL CORRUGATED BIDNO PAVEL TYPEK WEATHER BARRIER Stoff METAL STUDS		Envirologix Riverside campus 530 - DNA Expansion Portland, Maine
FRAME IN MINUM LUMINUM ENERS		
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	Men STELLCK HLL FLAHENG OR FARMCATED HOF STELL TUBE FASTENED AT THE ENDS TO BUILDING STELL TUBE FASTENED AT THE ENDS TO BUILDING STELL TUBE FASTENED "AS FOUNDER FOR CHATE? A UTHINUT HIBLE "SUPPORT SUPPORT SUPPORT SUPPORT SUPPORT COLSOLE HURG FEFTIGENCY CABINET STALE HEAT TAULP ON RASE BUILT IN CABINETRY EACH SIDE OF HEAT PULAP	DRUME BY: DAMAN DRUME BY: DAMAN DECALE AS NOTED EXECUTION: AS NOTED



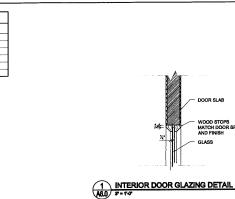


R						DOR		DOC	DR AN	ID FRAM		
124 OPEN WAREHOUSE	FLOOR BASE WAL 35 - 6 6	E W CEILING MATE	NOTES	NUMBER		SIZE		FINISH		ATL THRESHOL	R	FIRE
125 NECHANCAL 126 NECHANCAL 127 NECHANCAL	38 20 1 1 1 38 20 1 1 1 38 20 1 1 1			1241 1242	G 3'-0'	7'-0"	1 3/4" MTL	PTD	2	MTL ALUM		1 HF
128 MECHANICAL 202 GOKN	38 20 1 1 1 31 20 1 1 1	1 1 40 1 1 40		1244	G 3-0 C 6-0 E 6-0	7'-0"	1 3/4" MTL 1 3/4" MTL 1 3/4" MTL	P1D P1D P1D	2	VTL ALUV VTL ALUV VTL ALUV	PTD PTD	1 HR
203 EXPANDED REAGENT FREP / MASTER M 204 EXPANDED AMP II 205 HUVAN PATHOGEN	31 20 2 2 2 31 20 2 2 2 31 20 2 2 2	2 2 40		1262 1271 1272	C 3'-6"	7'-0' 7'-0' 7'-0'	1 3/4" MTL 1 3/4" MTL	P10 P10 P10	2	VTL ALUV VTL ALUV	PTD PTD	1 HR 1 HR 1 HR
207 BSL-2 SAMPLE PREP (DNA) 206 DISCOVERY				1281 1282 2021	D 3'-0"	7'-0" 7'-0" 7'-0"	13/4" WD	PTD PTD CLR	2	MTL ALUM MTL RUB	PTD PTD	1 HR 1 HR -
213 PLANT PATH SLOW GROWTH 214 PLANT PATH PREP 215 DNA SEQUENCING	31 20 2 2 2 31 20 2 2 2	2 2 40 2 2 40		2031 2071 2072		7'-0" 7'-0" 7'-0"	1 3/4" WD	CLR CLR CLR	2	มา. มา. มา.	PTD PTD PTD	-
218 ELEC CLOSET 221 WALK-IN REFRG. 222 STANDARDS ROOM	31 20 12 12 12 - 20 1 1 - 31 20 2 2 2	- 1 40 GWB	CEILING AND WALL FINISH AROUND UNIT	2101 2131	- 3'-0"	7'-0'	1 3/4" - 1 3/4" -	-	-		-	-
223 BSL-2 SAMPLE PREP (RNA) 224 GOWN	31 20 2 2 2 31 20 1 1 1 31 20 2 2 2	1 1 40		2141 2171 2172	J 3'-0" - 3'-0"	7'-0" 7'-0" 7'-0"	1 3/4" WD 1 3/4" ~	CLR CLR	2	ALUV	-	1 HR
226 CORRIDOR 227 WOVEN'S RESTROOM	31 20 1 1 1 31 20 1 1 1	1 1 40 1 1 40		2191 2201 2221	- 3'-0"	7'-0" 7'-0" 7'-0"	1 3/4" -	CLR - CLR	-	VTL ALUV VTL	- PTD	<u>1 HR</u> -
228 VEN'S RESTROOM 229 OPEN OFFICE 230 VS 3	31 20 1 1 1 30 20 1 1 1 31 20 2 2 2	1 1 43		2231 2241 2251	D 3'-0" D 3'-0" D 3'-0"	7'-0" 7'-0" 7'-0"	1 3/4" WD	CLR CLR CLR	2	NTL NTL RUB NTL	PTD PTD PTD	-
231 VS 2 232 VS 1 233 LYDPHILIZATION	31 20 2 2 2 31 20 2 2 2 31 20 2 2 2 31 20 2 2 2	2 2 40		2261	J 6'-0"	7'-0*	1 3/4" WD	CLR		NUL ALUV	PTD	1 HR
234 REAGENT PREP / CAP & FILL 235 VESTIBULE	31 20 2 2 2 31 20 1 1 1	2 2 40 1 1 40		2271 2281 2301			1 3/4" WD 1 3/4" WD	CLR CLR CLR	2	VTL RUB VTL RUB VTL RUB	PTD PTD PTD	-
236 GOWN 237 LFD - HUMD 238 WALK-IN REFRIG.	31 20 1 1 1 31 20 2 2 2 - 20 1 1 -	2 2 40 - 1 40 GW8	CEUING AND WALL FINISH AROUND UNIT	2311 2321 2331	D 3'-0"	7'-0" 7'-0" 7'-0"	13/4" WD	CLR CLR CLR	2	NTL RUB NTL RUB NTL	PTD PTD PTD	-
239 PACKAGE 240 LFD DRY 241 VESTIBULE	31 20 1 1 1 31 20 2 2 2 31 20 1 1 1	2 2 40 1 1 40		2341 2342	D 3'-0"	7'-0*	1 3/4" WD 1 3/4" WD	CLR	2	VTL RUB NTL RUB	PTD PTD PTD	-
242 GOWN 243 CORRIDOR 244 OFFICE 1	31 20 1 1 1 31 20 1 1 1 30 20 1 1 1			2361 2362 2371		7'-0"	1 3/4° WD	CLR CLR CLR	2	MTL	PTD PTD	-
245 OFFICE 2 246 OFFICE 3	30 20 1 1 1 30 20 1 1 1	1 1 43 1 1 43		2391 2401 2411	D 3'-0" D 3'-0" D 3'-0"	7'-0" 7'-0" 7'-0"	1 3/4" WD	CLR CLR CLR	2	אדו, RUB אדו, אדו,	PTD PTD PTD	-
247 OFFICE 4 248 STAIR 250 OPEN MEETING	33 20 1 1 1 30 20 1 1 1	1 1 43 1 1 43		2421 2441 2451	D 3'-0" D 3'-0" D 3'-0"	7'-0" 7'-0" 7'-0" 7'-0"	1 3/4" WD	CLR CLR CLR	2	NTL RUB NTL RUB NTL RUB	PID PTD PTD	-
251 CLOSED VEETING 252 CLOSED VEETING 253 OPEN OFFICE	30 20 1 1 1 30 20 1 1 1 30/31 20 1 1 1	1 1 43 1 1 43	SHEET WIML AT CORRIDOR LOOP	2461 2471	D 3'-0" D 3'-0"		1 3/4" WD 1 3/4" WD	CLR	2	MTL RUB	PTD PTD	- - 1 HR
254 STORAGE 255 TECH TRANSFER 256 GOWN	31 20 1 1 1 31 20 2 2 2 31 20 1 1 1	2 <u>2 40</u> 1 1 40		2481 2482 2483 2511	J 3'-0" J 3'-0" Ε 3'-0" D 3'-0"	7'-0" 7'-0" 7'-0" 7'-0"	1 3/4 WD 1 3/4 MTL	CLR CLR PTD CLR	2		PTD PTD PTD PTD	1 HR 1 HR -
258 STORAGE 259 STORAGE 260 MECH.	31 20 1 1 1 31 20 1 1 1 31 20 1 1 1 31 20 1 1 1	1 1 40		2521 2541	D 3'-0" B 3'-0"	7°-0° 7°-0°	1 3/4" WD 1 3/4" WD	CLR	2	UTL RUB UTL RUB UTL RUB	PTD PTD PTD	-
261 MECH. 263 HALL	31 20 1 1 1 31 20 1 1 1	1 40		2561 2562 2581	D 3'-0" B 2'-6"	7'-0" 7'-0" 7'-0"	1 3/4" WD 1 3/4" WD	CLR CLR CLR	2	มาเ มาเ	P10 P10 P10 P10	Ē
			1	2591 2601 2611	B 3'-0"	7'-0" 7'-0" 7'-0"	1 3/4" WD	CLR CLR CLR	2	มก. มา. มา.	PTD PTD	-
FINISH SCHEDULE KEY	WANUFACTURER	STYLE / COLOR		2631	D 3'-0"	7'-0'	1 3/4" WD	CLR	2	NTL RUB	PTD	-
GWB - LATEX, LOW VOC PAINTED BY GWB - EPOXY PAINTED BY GC GWB - PAINTED BY GC	BENJAMIN MOORE	SEE PAINT SCHEDULE SEE PAINT SCHEDULE			ices Chown Lightly D		anteria Delaria Milatika					
CONFERENCE WAINSCOTING - BREAK ROOM WAINSCOTING -	CLR SEPELI W/ FABRIC PTD. HD. WD. W/ FABRIC			A ADDRET T	HARMHOLD WIGTH TO O TICH & JOHT OCHEVIE WIGTH TO PIT EDESTING		W MATTI AL AR	S- STOR E- BATR EX-EXT	eroon Wice / Office			
NOT USED EXISTING BRICK - PAINTED BY GC EXISTING CMU UNIT WALL				B. ADJUST V C. DOUBLE / HARDWARE T	NETH TO PIT IDSETING ! NETING DOOR 10 INE: ADA COMPLIANT !	IVING OF	Dana Linlity Level: C	P - PARA PR - PRM CHARPONI,	age Agy , Internetoiate Attol Existens	USAZEL LOCKSETS AND		
EXISTING CMU UNIT WALL EXISTING STONE FOUNDATION WALL PLASTER - PAINTED BY GC				COONDINATE EXTERIOR DO OFFICE OR O	WITH OWNER, HINGES IONS, CLOSENS, DOOR BITTER-HUNG TYPE, PU	NID BUTT	AND EXIT DEVIC	E TYPE AT M	E PRECIMINATION	LURASEL LOOKSETS AND ISTYNG AND ORVERIGANELE PRIS AT BANKER, PRISEL PROFE RESIDE BATH OFFICIAL UNITE: ISTREAM OFFICIAL DITTERENCLOS.		
SHEET STEEL, CLEAN AND PAINT				EDGE TREA, V GOORDEWATE	DOOR UNDERGUTE, FI		WITH HVAC OC	PINE WEATH		D THREEHOLDS.		
SE RUBBER COVE BASE #1		A 32 PEBBLE W CAPPET THE 1 STRAIGHT MAKE		BOOR TYP			d.	<u>6"</u>			La 3'	
RUBBER COVE BASE #2 RUBBER COVE BASE #3		TEO DON'T DARK NO CARE TO STRACH SAR, W BEET ROOTING - DONE MAE \$20 CHARCONL WE COCCA MATT / QT-2		Truck		1.1			Ň	NT LEED		<u>•</u>
NOT USED PAINTED WOOD EXISTING (REFINICIALED)				WTU-				_0_		ANT TO		
CLEAR FINISHED SEPELI						*	3-10	X.		<u></u>	3-10	
CARPET TILE - 1, COMMERCIAL GRAD CARPET - 2, COMMERCIAL GRADE NOT USED	E MILLIKEN 3033 IMMACULATE MOCCA	P/8724 RANDOM 802		6.4		61.4	GL	CLEAR	LICED OAK, FINISH	61.4	GL-3 GL-3	L
CHEET VINYL (QUARTZ TILE - 1 (OFF WHITE)	MANNINGTON ASSURANCE ALTRO	AQT CD 0211		A BUT BARD	B FLUSH SOLID CORE INTERIOR		BAN DI SOLD COF BANSHEDT BANSHEDT	e: CLR #000	E HOLLOW META	GLAZED INTEROR		
QUARTZ TILE - 2 (GREEN) QUARTZ TILE - 2 (GRAY) RUBBER TILE -1	ALTRO ALTRO JOHNSONITE	AQT CD 2063 AQT CD 0215 #32 PEBBLE		R			พ					
CONCRETE, STAIN, BEALER EXISTING CONCRETE						וך	r +					
VOT COCOA MAT WALK OFF, VINYL BACKE OLEAN AND SEAL EQUITING CONORET		3/4" CHARCOAL			a lea		NOTUSED					
ANSITION STRIPS	JOHNSONITE	#32 PEBBLE										
GWB - PAINTED BY GC GWB SOFFIT - PAINTED BY GC	BENJAMIN MOORE BENJAMIN MOORE	SEE PAINT SCHEDULE SEE PAINT SCHEDULE			2		⊧ ŧ					
NOT USED 222, 224 (AS INDICATED) SUBPENDED ACOUSTICAL CE 1337 DIRECT GLUE ACOUSTICAL CELONIG THE WITH PI OLIVITER ROUND EDGE TRAM	LING 10.			1.400	10 CASED 2 10400X 00	NY METAL	HELER ALLASER					
NOT USED EXISTING PLASTER - PAINTED BY G.C												
EXPOSED METAL DECK				KEY GLAZING		ue 						
EXISTING TO REMAIN			3	GL-2 INSULAT	ED CLEAR GLAZING ED TEMPERED GLAZING TED WIRE GLAZING							
PADIT SCHED	31			GL-4 CLEAR T GL-5 GLASS B	EMPERED GLASS LOCK							
	ENJAMIN MOORE COLOR			GL4 CLEAR G]					V
BASE WALL COLOR U.O.N. HC	AL CLOTH 547 AL CLOTH 547 SHO DUNES AC-32											
LAS WALLS SA	BLING WHITE DN MOUNTAIN 2134-30											
LAB WALLS SA DOOR FRAMES, RALINGS PH CEILINGS / SOFFITS CE ACCENT COLOR - IRG											** *	1 MR
LAS WALLS SA DOOR FRAMES, MALHOS PR CELLINGS / SOFFTS CE ACCENT COLOR - IRI ACCENT COLOR - GL ACCENT COLOR - NE	OUCESTER SAGE HC-100 WBURYPORT BLUE HC-155 IENANDOAH TAUPE - AC-38											1 1101
LAS WALLS BA DOOR FRAMES, NALNOS PH CELINGS / SOFTTS CE ACCENT COLOR - IR ACCENT COLOR - IR ACCENT COLOR - IS ACCENT COLOR - IS ACCENT COLOR - IS ACCENT COLOR - IS ACCENT COLOR - SH	OUCESTER SAGE HC-100 WBURYPORT BLUE HC-155											
Les Walls BA DOOR PRAMES, NALINGS PRI CELINGS / SCHTTS CE ACCENT COLOR - IR ACCENT COLOR - IR ACCENT COLOR - IG ACCENT COLOR - IG ACCENT COLOR - IS ACCENT COLOR - SH ACCENT COLOR - SH ACCENT COLOR - CE	OUCESTER SAGE HC-100 WBURYPORT BLUE HC-155 EUNNOCANT TAUPE - AC-38 XPPER MOUNTAIN AC-12 KILEY GRAY - HC-87											
LAN WALLA ALA CODER TRAJERS PR OCELING'S FOOFTR'S CCE ADDENT COLOR- RR ADDENT COLOR- RR ADDENT COLOR- RL ADDENT COLOR- RL ADDENT COLOR- RL ADDENT COLOR- RL ADDENT COLOR- SL ADDENT COLOR- CL ADDENT COLOR- AL ADDENT COLOR- AL	OUCESTER BACE HC-100 WINITYORT BUIL HC-155 EINANDCAN TAUPE - AC-38 PPPER MOUNTAIN AC-12 PHEPY GRUY - HC-87 EINEY OF NAME BUILTY OF AND AC-12 BUILTY OF AND AC-12 BUILTY AND AC-1	ROAD IN ACCURENT FICK TO NOW								(1) INTI (A6.0) F = T	ERIOR DOC] жо









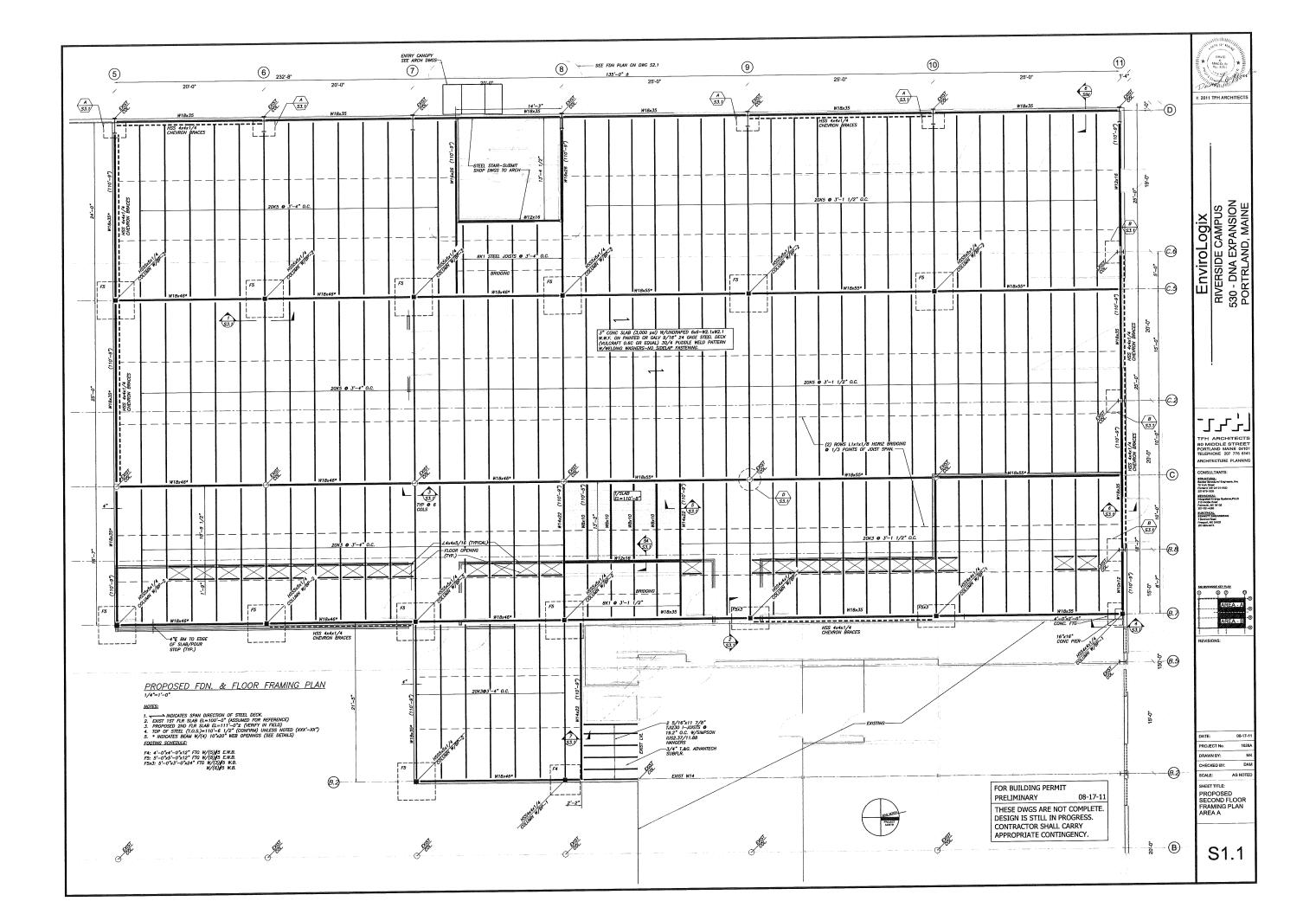
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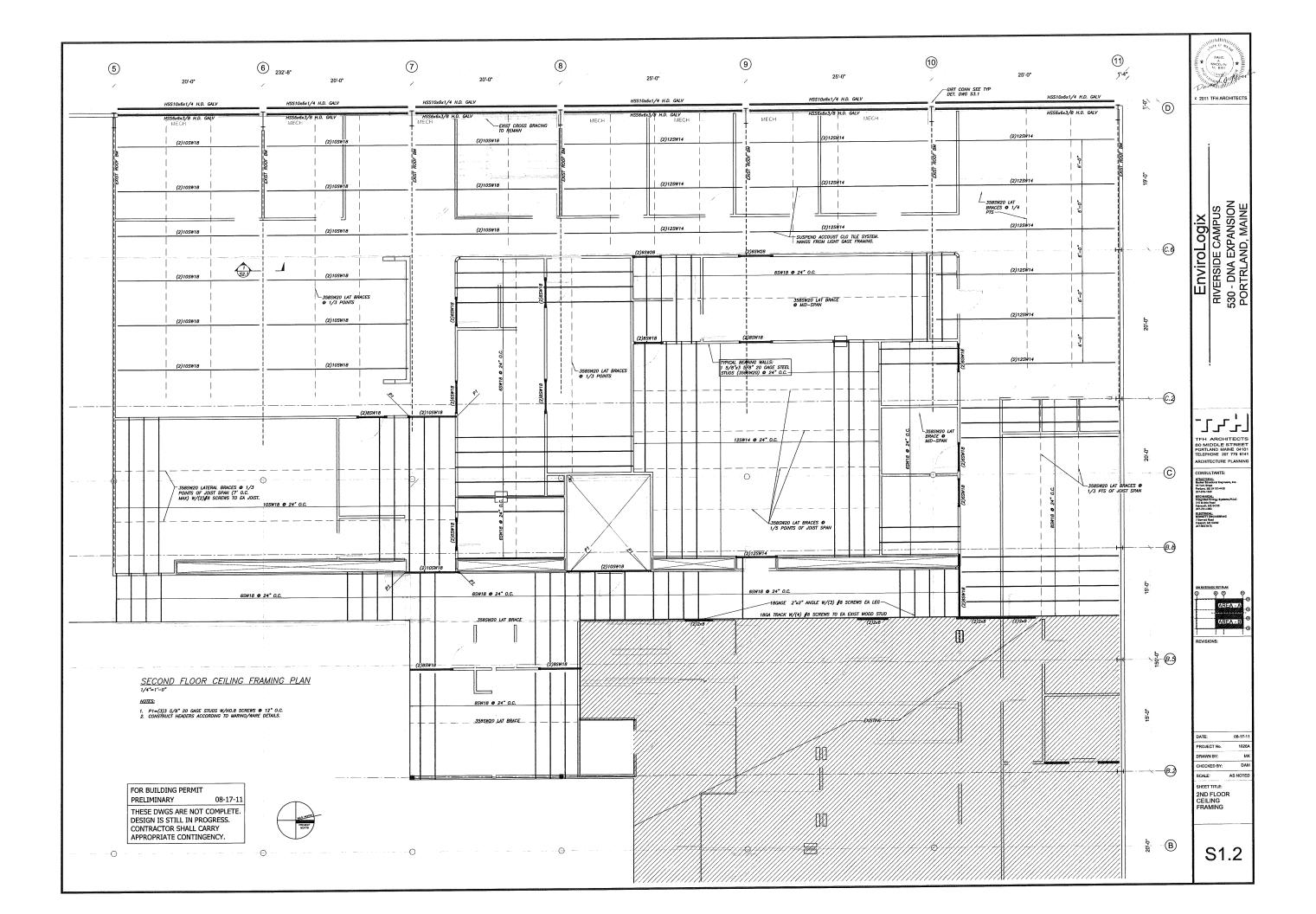
3* PLAIN SLICED OAK

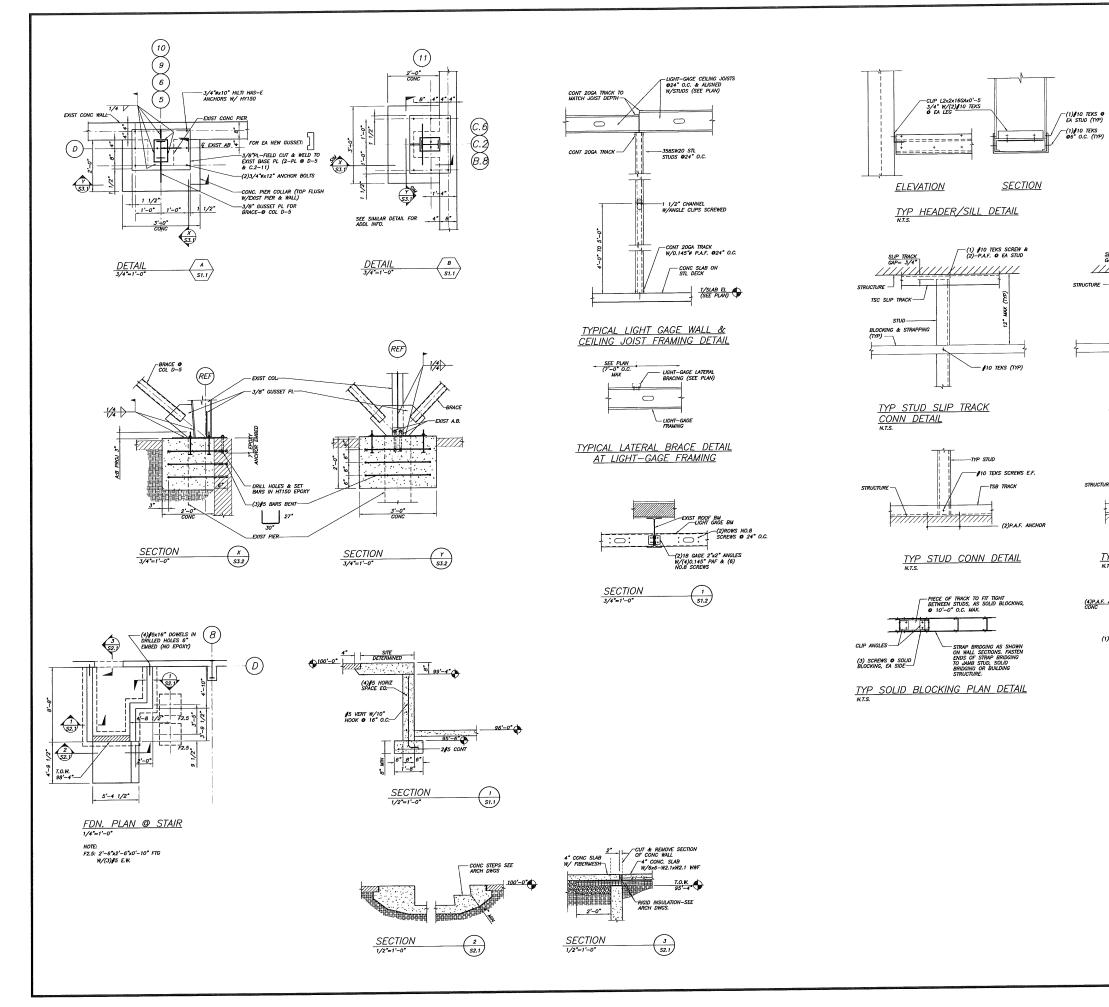
LABORATORY EQUIPMENT MATRIX - DNA EXPANSION 7/25/11	LABORATORY EQUIPMENT MATRIX - DNA EXPANSION 7/25/11
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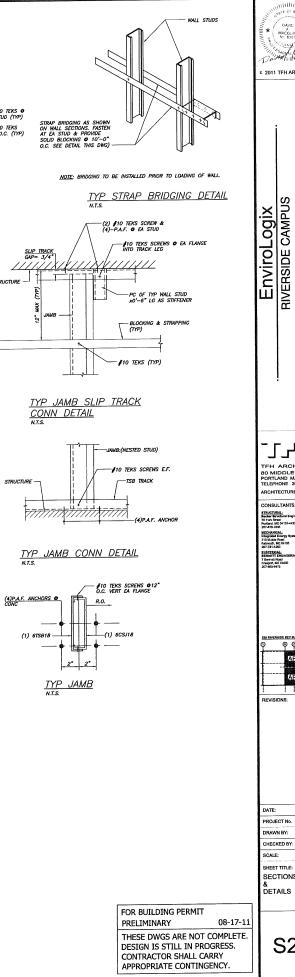
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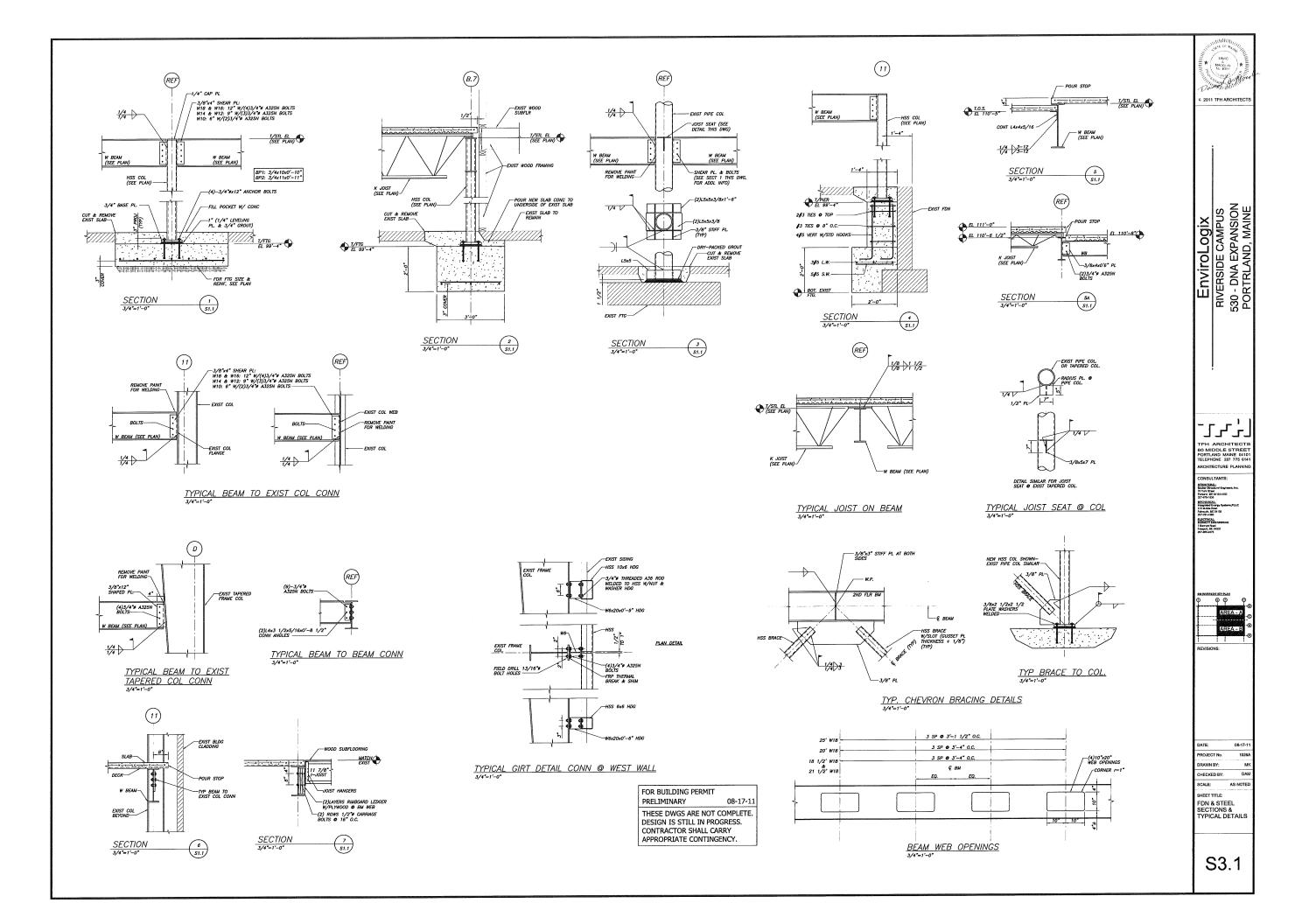


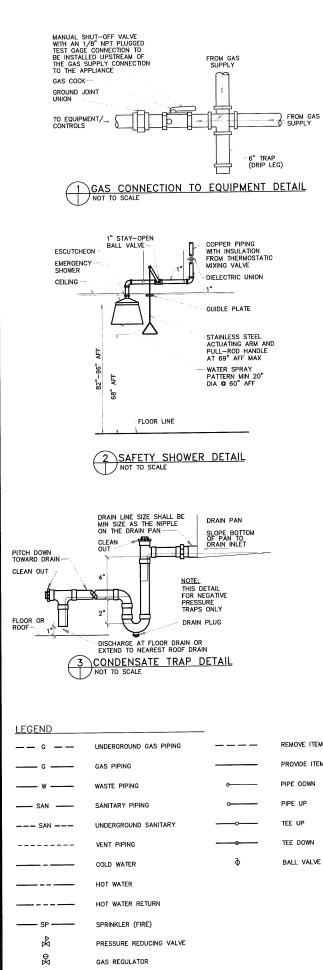












		WASTE		INDIR		HEDULE WATER	140'	WATER	G/	٨S	
UNIT NO	ITEM	ROUGH-IN SIZE	TRAP SIZE	WASTE CONN SIZE		FIXTURE CONNECTION SIZE	ROUGH-IN SIZE	FIXTURE CONNECTION SIZE	ROUGH-IN SIZE	FIXTURE LINE SIZE	NOTES
23405	MILLI-Q WATER HANDLING	-	-	-	1/2"	-	-	-	1"	-	
23702	MILLI-Q WATER HANDLING	-			1/2"						
R-1	WALK-IN REFRIG RM 207	1-1/2"	1-1/2"	3/4"							
R-2	WALK-IN REFRIG RM 238	1-1/2"	1-1/2"	3/4"							
HP-1	HP-15 THRU HP-32	-		1							
CT-1	COOLING TOWER				3/4"						
CWM-1	HVAC SYSTEM				3/4"						
H-1	HUMIDIFIER	1-1/2"	1-1/2"	3/4"				1			L

r			ENVELIDE			CHEDULI				
FIXTURE NO.			FIXIURE SOIL/WAST				REMARKS			
WC-1	WATER C	LOSET	4"	2"		1"				
WC-2	WATER C	LOSET, ADA Y. ADA	4" 1 1/2"	2" 1 1/2"	1/2"	1/2"				
S-1	SINK		1 1/2"	1 1/2" 1 1/2"	1/2" 1/2"	1/2" 1/2"	PROVIDE EYEWASH		@ 2011	TFH ARCHITECTS
S-2 S-3	SINK		1 1/2"	1 1/2"	1/2"	1/2"	1 PROVIDE TRAP PR	IMER		
FD-1 FD-2	FLOOR D		2"	1 1/2"		1/2"	PROVIDE TRAP PR			
ES-1	EMERGEN	CY SHOWER	2"	1 1/2"	3/4"	1" 3/4"				
U-1 HB-1	URINAL, HOSE BIE	3B		1 1/2	1/2"	1/2"	CHROME PLATED			
1. FOOT PE	DAL OPERAT	TED, PROMDE	EYEWASH							
			ELEC	TRIC HE	ATER S	SCHEDUI	_E			
	LOCATION	STORAGE	WATTAGE	VOLTS/PHAS	MAN	UFACTURED	NOTES:			
UNIT NO	RM 223	GALLONS 2.5	1500	208/1	AIN	D MODEL				
EHW-2	RM 234	2.5	1500	208/1		M B1VP2S				lo Z μ
EHW-3 EHW-4	RM 227 RM 255	2.5 2.5	1500 1500	208/1 208/1		M 81VP2S	~		\mathbf{X}	IS S S
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d Pay Fees. Roval, The Nd They		HEAD, CONC APPROVED I FD-1: 6° ROI PRIME PERF FD-2: 6° ROI	EQUAL EQUAL UND BRASS GI ECT TRAP PRI	RATE, ADJUST/) THERMOST, ABLE BODY.	atic Mixing V/ Provide Siou	alve ok		EnviroLogix	RIVERSIDE CAMPUS 530 - DNA EXPANSION DOPTRI AND MAINE
NG(ASTM 3 OR PEX. TIMONY, ID SMALLER,		WITH STAND TEST COLD FOR ONE (1) <u>DISINFECTION</u> THE ENTIRE DISINFECTE	ARD PRACTIC & HOT WATER HOUR. BOMESTIC W DIN ACCORD.	LL BE FLOW AN CE AND THE NA SYSTEMS AT ATER SYSTEM ANCE TO THE L	(EXISTING/N	E OPERATING I	NG CODE. PRESSURE			
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10-HUB JOINT		SPRINKLER		UTOMATIC, WI		ORFESSION SYS	ITEM.			ULTANTS:
OR SCH 40		2. FURNISH FABRICAT	SHOP DRAWI	NGS OF EQUIP ALLATION. SUB	MENT BEING MIT HYDRAU	APPROVED PF	SOR TO		STIRLETA Bankar Bis To York Ge Portand, A 207-475-10 1005243, Jan	net ME 0(101-4450
SHALL NOT		4. JOINTS A		ACK STEEL, AS THREADED USI		25 CAST IRON T	HREADED		310 Liddon Felmault, 207-781-40 BLIECTIEL BENRETT	n Fload Lait christi 2013 CAL: T philantestania
ID SHALL		5. PIPING A	ND EQUIPMEN	t Support Sh D otherwise.	ALL COMPLY	WITH REQUIR	EMENTS OF		7 Bernald Franzeri, V 207-886-6	NE 0423 KTB
RM GRADE OF .BE RUN AT A			PRINKLERS I	N CENTER OF C	ZEILING TILE	IN AT LEAST O	NE			
gs shall be				TCH EXISTING			id Style.		ea anna T	G T T
		NATURAL G								AREA - A
STRUCTURE ERFORMED		1. GAS PIPI	NG SHALL BE	INSTALLED IN A					-	AREA - B
F PIPE E. WHERE				SCHEDULE 40 FITTINGS (AS					H	
JPPORTS FOR		CONNEC	TS TO EQUIPM	AENT, PROVIDE ALVE AND A U	A DRIP LEG	THE FULL SIZE	OFTHE		REVIS	BIONS:
PTH WITH AN RE LENGTH.		3. EXTERIO BE COVE	R GAS PIPING	SHALL BE GAL COATS OF A WA	VANIZED ST	EEL PIPE, THE ASPHALTIC CO.	PIPE SHALL ATING (OR			
RE LENGTH. CIFIED) A VALL NOT BE IN PIPING SHALL		4. UNDERG	ROUND PIPIN	G SHALL BE PO 513 AND D2517. A MINIMUM DEF	LYETHYLEN	IUND GAS PIPIP	IG SYSTEMS			
				R TRACER WIR	E OR OTHER	APPROVED C	DNDUCTOR			
ECE, 1.6 GPF, C SEAT.		PIPING /	LCCERS SHALL	ADJACENT TO U BE PROVIDED TE ABOVE GRO) TO THE TR/	ACER WIKE OR	THE TRACER			
ELONGATED		ALCOAD OF T	ALL IN CAR DI	TE ABOVE GRO PING. THE TRAC TION TYPE SH/	CER WIRE RI	UALL NOT BE LE	ESS THAN 18 WG AND THE		DATE	<u>-</u> 8/1
		INSULAT	ION TYPE SHA	LL BE SUITABL	E FOR BURG	L.			-	IECT No. 10
E TYPE, 4"), SINGLE				re = 2 psi wati Nping system	INSTALLED		LOCATIONS		I	VN BY: XED BY: F
		7. PORTION SHALL N	OT HAVE UNK	DNS, TUBE FITT	INGS OR RU	NNING THREAD	NS .		SCAL	
JET WITH										er TITTLE:
teel sink									ABE SCH DET	BEND BREVIATIONS HEDULES, TAILS &
teel Sink Ole in Sink Dang Valve								\frown		ECIFICATION
TEEL SINK ELF-CLOSING, E IN SINK FOR 3 VALVE UNDER										P-1

									natury markets &	
(EQ)		JMBING F	IXTURE	ROUGH	-IN S	CHEDUL				
140' WATER GAS	FIXTURE NO. DESCRIPT WC-1 WATER C		SOIL/WASTE	2"	HW -	CW	REMARKS			
ROUGH-IN CONNECTION ROUGH-IN LINE		LOSET, ADA Y, ADA	4" 1 1/2"	2" 1 1/2"	1/2"	1" 1/2"	PROVADE EXEMASU			
1"	S-1 SINK S-2 SINK		1 1/2" 1 1/2"	1 1/2" 1 1/2"	1/2"	1/2"	PROVIDE EYEWASH		© 2011 TI	FH ARCHITECTS
	S-3 SINK FD-1 FLOOR DI	RAIN	1 1/2" 2"	1 1/2" 1 1/2"	1/2"	1/2"	1 PROVIDE TRAP PRI			
	FD-2 FLOOR DI		2"	1 1/2"	3/4"	1/2"	PROVIDE TRAP PRI			
	U-1 URINAL, HOSE BIE	ADA IB	2"	1 1/2"	- 1/2"	3/4" 1/2"	CHROME PLATED		;	
	1. FOOT PEDAL OPERAT		YEWASH							
Γ			ELECT	RIC HE		SCHEDUL	E			
Γ	UNIT NO LOCATION	STORAGE GALLONS	WATTAGE	VOLTS/PHAS		JFACTURED D MODEL	NOTES:			
	EHW-1 RM 223 EHW-2 RM 234	2.5 2.5	1500 1500	208/1 208/1		M 81VP2S				. Z
	EHW-3 RM 227 EHW-4 RM 255	2.5	1500 1500	208/1 208/1		M 81VP2S			×	
t		2.0	1000						-ogix	CAMPUS (PANSIOI D, MAINE
PERMITS		E8-1: EMERGE	NCY SHOWER	: GUARDIAN (31658, STAIN	LESS STEEL S	HOWER			
THE CONTRACTOR SHALL SECURE PERMITS OR APPLICATIONS AND P/	AY FEE8.	HEAD, CONCEL APPROVED EC	NUAL						Enviro	RIVERSIDE 30 - DNA E PORTRLAN
SHOP DRAWINGS SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIDENT OF THE ARCHITECT OR ENGINEER FOR APPROV	/AL. THE	FD-1: 6° ROUN PRIME PERFE	ID BRASS GRA CT TRAP PRIM	(TE, ADJUSTA Er.	BLE BODY. I	PROVIDE SIOU	XCHIEF		Ċ	Ë o E
CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS AND T SHALL BE CLEARLY LABELED.	HEY	FD-2: 6" ROUN PRIME PERFE	ID BRASS GRA	TE, ADJUSTA ER	BLE BODY.	PROVIDE 810U	X CHIEF		ш	PO 530 ₽
PROVIDE AS-BUILT DRAWINGS.		TESTING								"
DOMESTIC WATER SUPPLY PIPING		PLUMBING SY WITH STANDA	PD PPACTICE	AND THE NAT	NONAL STAP	ADARD PLUMBI	NG CODE			
1. ABOVE GROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING	ASTM	TEST COLD & FOR ONE (1) H	HOT WATER 8	YSTEMS AT 1	.6 TIMES TH	E OPERATING I	PRESSURE			
B88) WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS OF SOLDER TO BE 'NO LEAD' TYPE. SOLDERED USING 955 TIN-ANTIMC SOLDER TO BE 'NO LEAD' TYPE. SOLDERED USING 955 TIN-ANTIMC	ONY,	DISINFECTING	<u>.</u>						ļ	
0.20% MAXIMUM LEAD CONTENT, ASTM B32, ALLOY GRADE 885. FITTINGS: WROUGHT COPPER SOLDER JOINT, ANSI B18.22. VALVES- COLD AND HOT WATER, BALL VALVES, 2 INCHES AND SI	MALLER.	THE ENTIRE D DISINFECTED	OMESTIC WA	TER SYSTEM	EXISTING/N	EW) SHALL BE A HEALTH DEP	ARTMENT			
600 PSI WOG, SERVICEABLE IN LINE, SOLDER ENDS		REQUIREMEN	T8.							
2. HOT WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS INSU		<u>GUARANTEE</u> MATERIALS, E		IN INSTALLAT	ION SHALL E	E GUARANTEE	ED FOR A			
3. COLD WATER PIPING SHALL BE INSULATED WITH 1" FIBERGLASS INS	SULATION.	PERIOD OF O	NE (1) YEAR FI		CORRECTE	DAT THE CON	TRACTOR'S		- г	고님
8ANITARY/STORM DRAINAGE AND VENT PIPING ABOVE GRADE 2'AND SMALLER: CAST IRON SERVICE WEIGHT, HO-H	UBOR	EXPENSE. FO	R THE SAME I	PERIOD, THE I	PLUMBING C MISES CAU	ONTRACTORS	TS IN		тен А	
 ABOVE OF DE LE AND SANCENT JOINTS OR DWV COPPER WITH E JOINTS, SOLDER TO BE LEAD FREE. 	SOLDER	WORKMANSH	IP OR IN THE	NORK OR EQ					BO MIC PORTLA TELEPHO	DLE STREET ND MAINE 04101 DNE 207 775 6141
2. ABOVE GRADE 3" AND LARGER: SERVICE WT, CAST IRON WITH HO- OR SCH 40 PVC WITH SOLVENT JOINTS		<u>SPRINKLER</u>					TEN		ARCHITE	CTURE PLANNING
 BELOW GRADE: SERVICE WT. CAST IRON WITH HO-HUB JOINTS, OR PVC WITH SOLVENT JOINTS. 	SCH 40			SOF FOUIP	AENT BEING	PRESSION 8YS APPROVED PR LIC CALCULAT	BOR TO		75 York Breek	la Anul Englowen, Ina. D(101-4480
A DAYS DIDING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHA	LL NOT	3. PIPE: SCHE	DULE 40, BLA	CK STEEL, AS1	IM A53				HERCHANCAN Integrated En 310 Match Re February, ME 207-761-4200	é argy Pysiana,FLLC ad 64125
CROSS FIRE RATED WALLS, CELLINGS, OR FLOORS. 5. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND S	HALL	4. JOINTS AND FITTINGS, A		IREADED USI	IG CLASS 12	5 CAST IRON T	HREADED		PLECTRICAL DENOETT IN 7 Bernalt For Franzert, ME 207-005-6478	
HAVE LONG TURN FITTINGS.		5. PIPING AND NEPA 13 UN	EQUIPMENT	SUPPORT SHA	VLL COMPLY	WITH REQUIR	EMENTS OF		207-005-0475	
 DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM AT LEAST ½" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE GRADE OF NO LESS THAN 1/5" PER FOOT. 	GRADE OF RUN AT A	6. LOCATE SP			EILING TILE	IN AT LEAST OF	NE			
7. VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FORTURES.		DIRECTION								
8. PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTINGS	SHALL BE	7. SPRINKLER 8. TEST SPRI	NKLER SYSTE				Darre.			OF NEY FLAK
SLEEVED.									0	0 0 0 0
PIPE SUPPORTS ABOVE GRADE: PIPE SHALL BE SUPPORTED FROM THE BUILDING ST	RUCTURE	NATURAL GA			000004440	E WITH NEPA 5	4-2009.			AREA - A
IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERF	ORMED				ACK STEEL	PIPE (ASTM A	53.A106)			AREA - B
SUPPORT SHALL BE AS SPECIFIED IN THE MAINE PLUMBING CODE. W OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPP EQUIPMENT, FURNISH ADDITIONAL FRAMING.	orts for	CONNECTS	EABLE IRON F 3 TO EQUIPME PE, A BALL VA	NT, PROVIDE	A DRIP LEG	WHERE GAS PI THE FULL SIZE	OFTHE		REVISIO	NS:
			GAS PIPING S	HALL BE GAL	VANIZED ST	EEL PIPE. THE ASPHALTIC CO.	PIPE SHALL ATING (OR			
BELOW GRADE: EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE		EQUAL) TO	PREVENT CC	RROSION OF	THE PIPE.					
INTERIOR PIPING SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFI MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL ANY DIRECT CONTACT WITH THE CONCRETE. EXTERIOR WATER PIPI		4. UNDERGR	NDARDS D251	3 AND D2517.	UNDERGRO	UND GAS PIPIN	KG SYSTEMS			
HAVE A MINIMUM OF 48" OF COVER.		SHALL BE	INSTALLED A	VINIMUM DEP	TH OF 18 IN	CHES BELOW G	SRADE.			
PLUMBING FIXTURES WC-1: AMERICAN STANDARD CHAMPION 4 RIGHT HEIGHT, TWO PIEC	E, 1.6 GPF,	5. AN INSULA SHALL BE		LACENT TO U	NDERGROU	APPROVED CO ND NONMETAL CER WIRE OR	LIC (PLASTIC)			
ELONGATED BOWL, ADA COMPLIANT, OPEN FRONT SOLID PLASTIC SE	-AI.	WIRE SHAL	L TERMINATE	ABOVE GRO	JND AT EAC FR WIRE SH	HENDOFTHE	588 THAN 18		DATE	8/17/11
WC-2: AMERICAN STANDARD CHAMPION 4 , TWO PIECE, 1.8 GPF, ELO BOWL, OPEN FRONT SOLID PLASTIC SEAT.	NGATED	AWG AND	THE INSULATION TYPE SHALL	ON TYPE SHA	LL NOT BE L	ESS THAN 18 /	WG AND THE		PROJEC	
L-1: AMERICAN STANDARD DECLYN, WALL HUNG, 18.5%17", LEDGE TY CENTERS, ADA COMPLIANT, FAUCET, SYMMONS SYMMETRIX S-20, S#	'PE, 4" NGLE	6. GAS SUPP 7. PORTIONS		ING SYSTEM	INSTALLED		LOCATIONS		DRAWN	
LEVER, 1.5 GPM AERATOR, GRID STRAINER.		SHALL NO	T HAVE UNION	8, TUBE FITTI	NGS OR RU	INING THREAD	98.		SCALE	AS NOTED
U-1: AMERICAN STANDARD ALLBROOK FLOWISE, 0.5 GPF, SIPHON JET INFRARED ACTIVATED FLUSH VALVE.	WILL								SHEET	
8-1: ELKAY CELEBRITY CR2522, 25'X22', 20 GAUGE, STAINLESS STEE WITH SYMMONS 8-23 SINGLE LEVER FAUCET.	l Sink								ABBF SCHE	REVIATIONS EDULES, ALS &
S-2: ELKAY CELEBRITY CR2522, 257227, 20 GAUGE, STAINLESS STEE WITH SYMMONS S-23 SINGLE LEVER FAUCET. PROVIDE EXTRA HOLE	L SINK									CIFICATIONS
FOR GUARDIAN G1849LHL EYEWASH. MOUNT THERMOSTATIC MOUN UNDER COUNTER.	G VALVE							\frown		
A THINK OF FRANK OF STAR STAR STAR STAR STAR	LSINK									P-1
SS: ELKAY CELEBRATT CR2022, 20 X22, 30 X40CL, 13-5/8" HIGH, SELF.	oloomo,								1	· •

- 2. ABOVE GRADE 3" AND LARGER: SERVICE WT. CAST IRON WITH HE OR SCH 40 PVC WITH SOLVENT JOINTS
- BELOW GRADE: SERVICE WT. CAST IRON WITH HO-HUB JOINTS, C PVC WITH SOLVENT JOINTS.
- PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND 8 CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
- DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND HAVE LONG TURN FITTINGS.
- DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFOR AT LEAST ½" PER FOOT, AND PIPING LARGER THAN 3" SHALL E GRADE OF NO LESS THAN 1/6" PER FOOT.
- VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
- PIPING PENETRATIONS OF BUILDING FOUNDATIONS OR FOOTING SLEEVED.

PIPE SUPPORTS

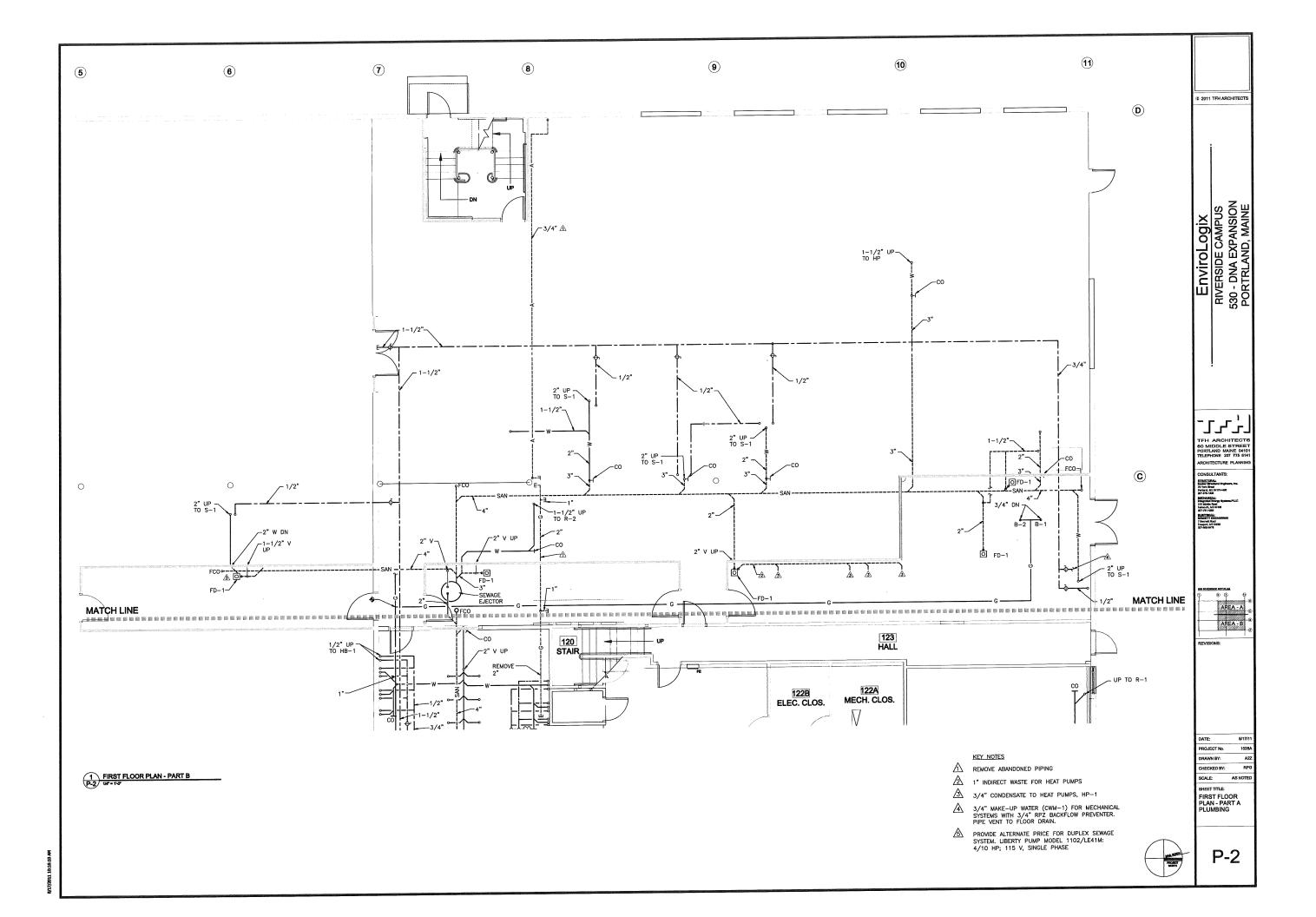
COUNTER.

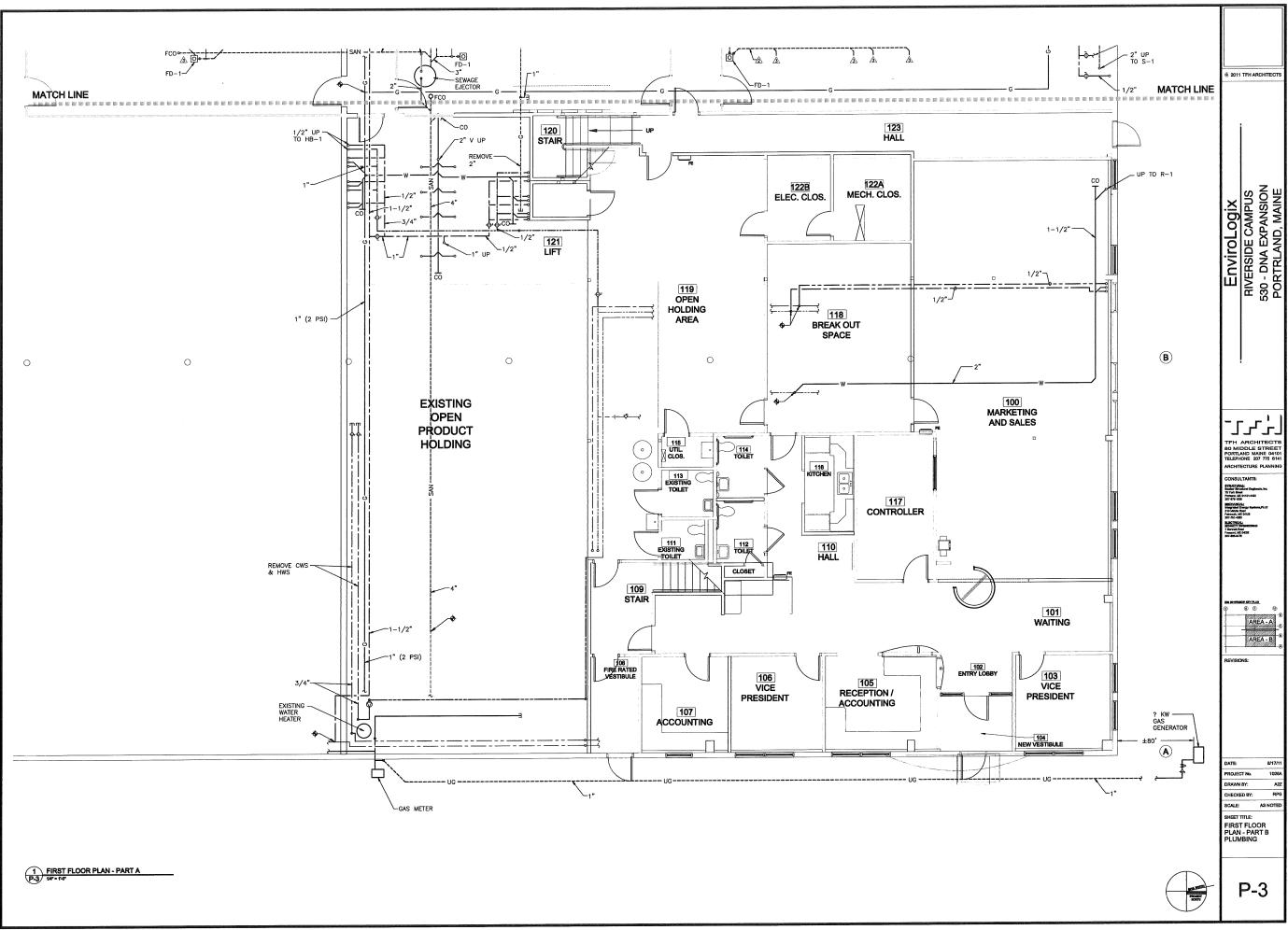
5-3: ELKAY CELEBRITY CR2622, 257027, 20 QAUGE, STAINLESS STEEL SINK WITH AMERICAN STANDARD GOOSENECK SPOUT, 13-56° HIGH, BELF-CLOSING, DOUBLE PEDAL, FLOOR MOUNTED, VALVE, PROVIDE EXTRA HOLE IN SINK FOR GUARDIAN GISHAULH, EYEWASH. MOUNT THERMOSTATIC MIDING VALVE UNDER

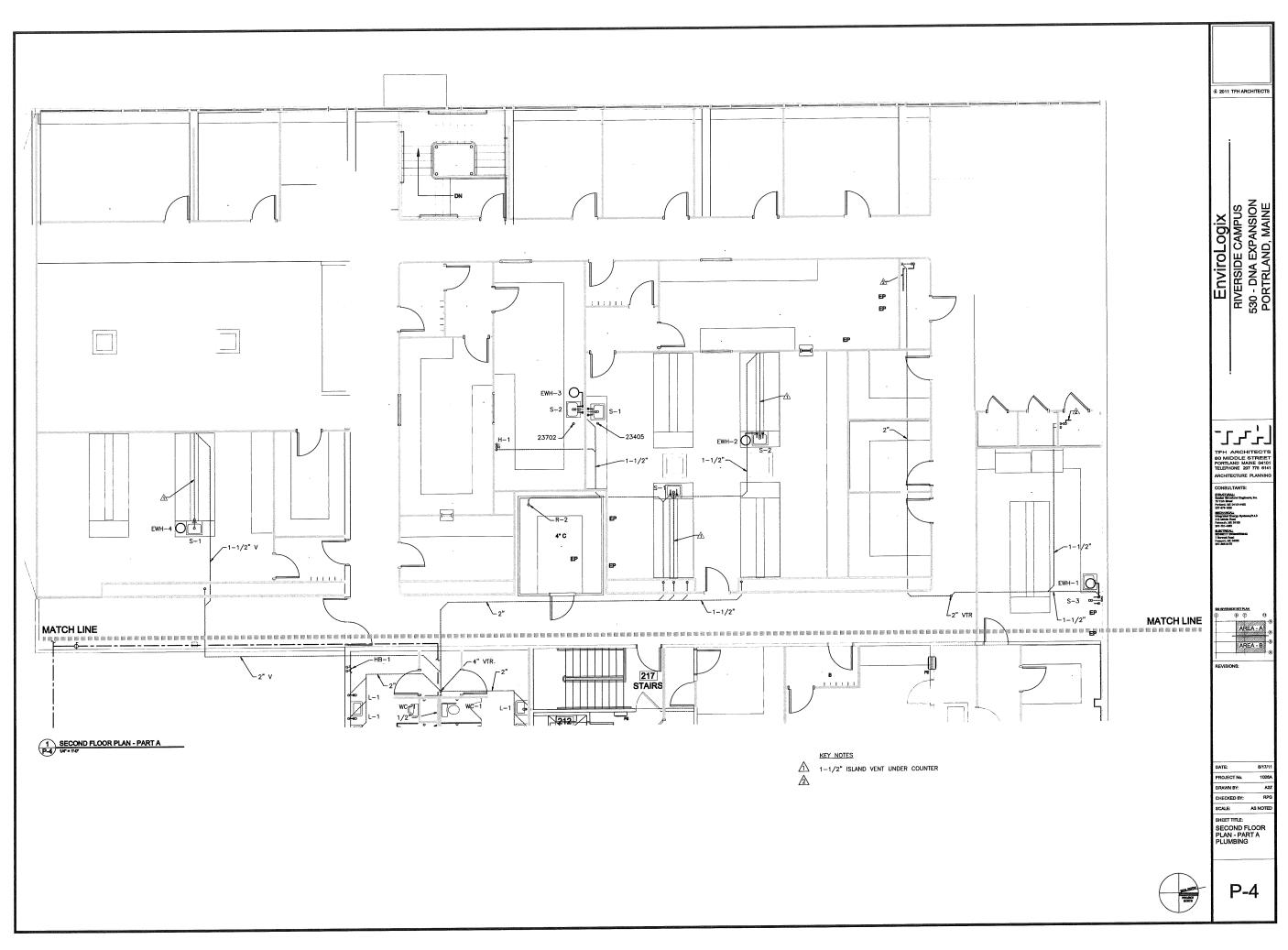
BALL VALVE

- GENERAL NOTES
- THE CONTRACTOR IS RESPONSIBLE FOR WORK, MATERIALS, AND LABOR TO BATISPY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. DISCONNECT, REMOVE, AND OR RELOCATE EXISTING WATERIAL EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF
- APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THESE PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PROR TO SUBMITING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE THE LAWS AND REGULATIONS.
- WORK IS TO BE PREFORMED IN COMPLIANCE WITH THE NATIONAL STANDARD PLUMBING CODE (LATEST EDITION), LOCAL CODES, AND OTHER REGULATIONS GOVERNING WORK OF THIS NATURE. З.
- WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DISTY WITHIN THE CONSTRUCTION AREA. 4.
- 5. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- PROVIDE NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING, DO NOT LEAVE PIPING OPEN ENDED.
- 8. THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL". COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
- 9. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
- 10. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON THE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.
- 11. FURNISH SHOP DRAWINGS OF EQUIPMENT BEING APPROVED PRIOR TO FABRICATION OR INSTALLATION.
- 12. COORDINATE WORK WITH OTHER TRADES.
- 13. CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
- 14. PIPING SHOWN SHALL BE CONCEALED UNLESS OTHER
- 15. PIPING PENETRATIONS THROUGH NEW, EXISTING WALL OR FLOOR SHALL BE BEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR. SEAL OPENINGS AROUND PIPES THROUGH PARTITIONS AND WALLS WITH APPROVED FIRE STOPPING MATERIAL MEETING ASTM E814 AND NFPA-101.
- 18. COMPLY WITH LOCAL AND STATE CODES FOR SEISMIC ISOLATION. THE DRAWINGS DO NOT SHOW SEISMIC ISOLATION POINTS, THEREFORE ALLOW FOR SEISMIC ISOLATION IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
- 17. PLUG OR CAP PIPING. DO NOT LEAVE PIPING OPEN ENDED.
- 18. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, TENANCE AND REPAIR
- 19. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, INVERTS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
- 20. INSTALL FROST PROOF HYDRANTS 30" ABOVE FINISHED GRADE
- 21. INSTALL SHOCK ABSORBERS IN ACCORDANCE WITH THE LATEST "PLUMBING AND DRAINAGE INSTITUTE STANDARDS' FOR WATER HAMMER ARRESTORS.
- 22. LOCATE ACCESS PANELS IN NON ACCESSIBLE CELINGS AND WALLS FOR VALVES, SHOCK ABSORBERS, CLEANOUTS AND OTHER ITEMS THAT REQUIRE ACCESS TO PROPERLY MAINTAIN OR SERVICE THE BUILDING. REFER TO SPECIFICATIONS.
- 23. PROVIDE CLEANOUTS AT THE BASE OF SANITARY DRAINAGE, PROCESS WASTE, AND RAIN WATER CONDUCTORS.
- 24. THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE& PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- 25. VENT THRU ROOF (VTR) PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY, FINAL LOCATIONS SHALL BE COORDINATED WITH TRADES. VTR SHALL BE A MINIMUM OR 10'-0" FROM FRESH AR INTAKES.
- 28. PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW OFFSETS, DROPS, AND RIBES OR RUNS. THE CONTRACTOR SHALL ALLOW IN THE BID FOR ROUTING TO AVOID OBSTRUCTIONS.
- 27. EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER.

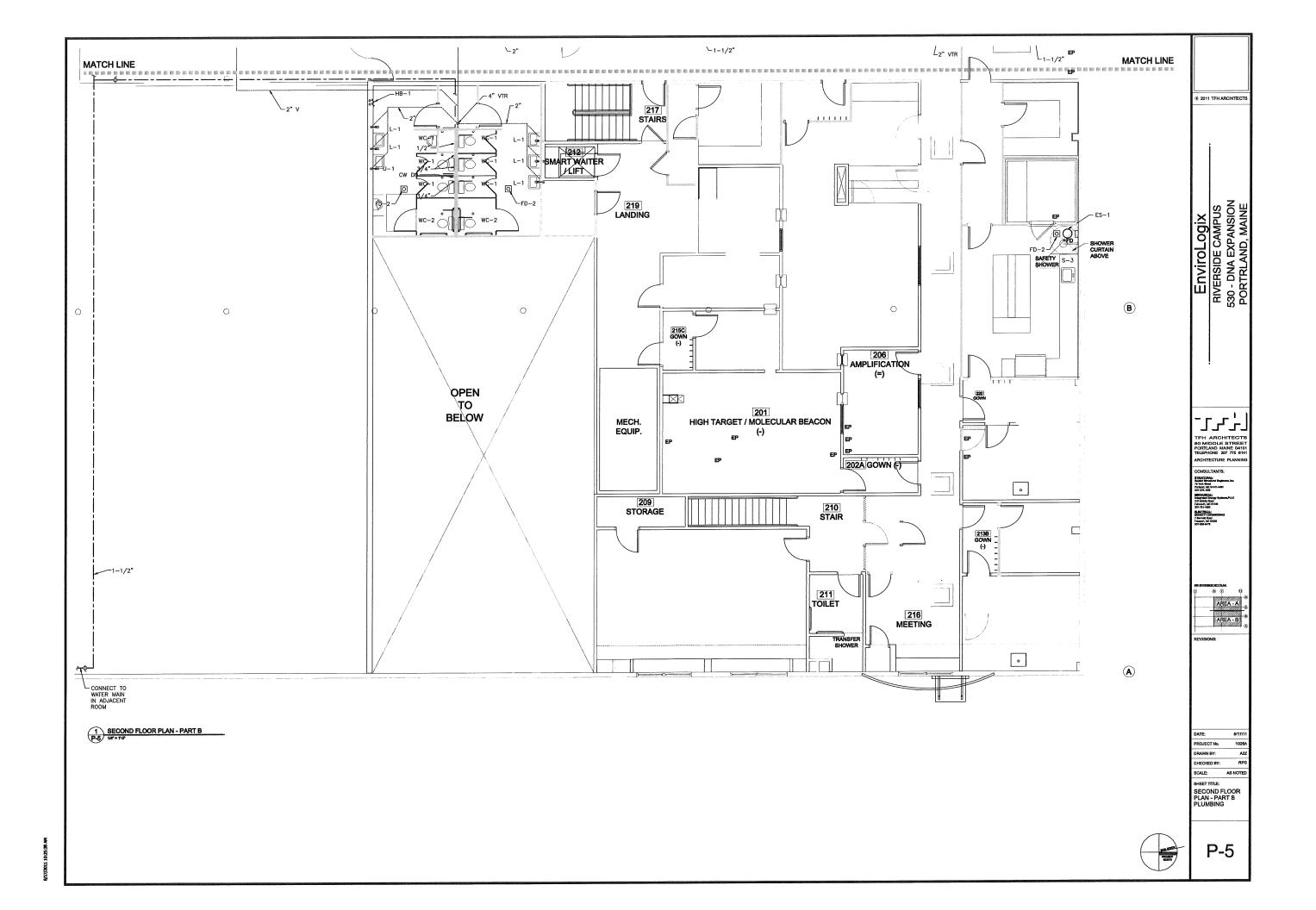
PERMITS THE CONTRACTOR SHALL SECURE PERMITS OR APPLICATIONS AND







011 10:17:45 AM



SYMBOLS & ABBREVIATIONS

00000	PELLET VACUUM HOSES	k
Ø	PUMP, CIRCULATOR	Ū
R.	STRAINER	®
0	THERMOMETER	IVI
ģ	PRESSURE GAUGE	
F3	CHECK VALVE	011111111
\triangle	KEY NOTE	R
T,	BOILER DRAIN	Ē
\$	CONNECT TO EXISTING	\$
o	PIPING UP OR PIPE UP AND DOWN	¥ X
G	PIPING DOWN	
	TEE WITH BRANCH DOWN	
	TEE WITH BRANCH UP	FS
	REMOVE ITEM	LWCO
	EXISTING	0
	PROVIDE ITEM	FT-1 1.0
S	LOW PRESSURE STEAM PIPE	
C	LOW PRESSURE CONDENSATE PIPE	EFF
SAN	SANITARY DRAIN ABOVE GRADE	ø
v	VENT PIPE	HP
F0	FUEL OIL PIPING	MIN
	DOMESTIC COLD WATER	GPM
	DOMESTIC HOT WATER	EXIST
	DOMESTIC HOT WATER RECIRCULATION	NO
	HOT WATER SUPPLY	TEMP
HWR	HOT WATER RECIRCULATION	IN
<u>_</u>	CONTINUATION	MBH
	DIRECTION OF FLOW	HWS
	FIN-TUBE RADIATION	HWR
VD	VOLUME DAMPER	CD
足	MOTORIZED VALVE	CFM CUH
— N	motorized there	EF
晟	CONTROL VALVE	EG
ð	BALL VALVE	ER
Ψ M	GATE VALVE	ERV HP
	THERMOSTATIC ANGLE VALVE	RG
 1111111111111111111111111111111	FLEXIBLE ROUND DUCTWORK	TG
Þ	CEILING RETURN GRILLE OR REGISTER	
×	CEILING SUPPLY DIFFUSER	

ER			CD CFM	CEILING DIFFUSER CUBIC FEET PER MINUTE	
ngle V. Nd Duc N Gril	CTWORK		CUH EF EG ER ERV HP RG TG	CABINET UNIT HEATER EXHAUST FAN EXHAUST GRILLE EXHAUST REGISTER ENERGY REGOVERY UNIT HEAT PUMP RETURN GRILLE TRANSFER GRILLE	
	DIF	FUSE	R / RE	GISTER SCHEDULE	
NECK SIZE IN	MAX PRESSURE DROP IN WC	MAX NOISE CRITERIA	CFM RANGE	TYPE	MANUFACTURE AND MODEL
6"ø	0.15	30	0-250	4-WAY DIFFUSER	METALAIRE 570
all a	0.45	70	051 440	A WAY DIFFLISER	METALAIRE 570

RELIEF VALVE

HUMIDISTAT

RELAY

SWITCH LIGHT FIXTURE

FLOW SENSOR

I OW WATER CUTOFF

THOUSAND BTU/HR

GALLON PER MINUTE

HOT WATER SUPPLY

HOT WATER RETURN

THERMAL SWITCH FINTURE RADIATION

EFFICIENCY

HORSEPOWER

DIAMETER

MINIMUM

EXISTING

NUMBER

TEMPERATURE INCHES BRITISH THERMAL UNIT

ROOM THERMOSTA

FINTUBE RADIATION

CAST IRON RADIATOR

TEMPERATURE SENSOR

4" FLUORESCENT LIGHT FIXTURE

CIRCUIT SETTER, BALANCING VALVE

UNIT NO	FACE SIZE IN	NECK SIZE IN	MAX PRESSURE DROP IN WC	MAX NOISE CRITERIA	CFM RANGE	TYPE	MANUFACTURER AND MODEL	NOTES
S-1, S-1T	24"x24"	6"ø	0.15	30	0-250	4-WAY DIFFUSER	METALAIRE 5700	1,3
S-2, S-2T	24"x24"	8"ø	0.15	30	251-440	4-WAY DIFFUSER	METALAIRE 5700	1,3
S-3, S-3T	24"x24"	10"ø	0.15	30	441-600	4-WAY DIFFUSER	METALAIRE 5700	1,3
S-4, S-4T	24"x24"	12"ø	0.15	30	601-790	4-WAY DIFFUSER	METALAIRE 5700	1,3
	12"x12"	6"ø	0.15	30	0-200	4-WAY DIFFUSER	METALAIRE 5700	1,3
S-5	12"x12"	8"ø	0.15	30	201-350	4-WAY DIFFUSER	METALAIRE 5700	1,3
S-6	12 x12 18"x18"	8"x8"	0.05	30	0-300	RETURN GRILLE	RETURN GRILLE	2,3
R-1, S-1T	10 x10	12"x12"		30	301-550	RETURN GRILLE	RETURN GRILLE	2,3
R-1, R-2T S-3, R-3T	12 x12 22"x22"	22"x22"			551-2000	RETURN GRILLE	RETURN GRILLE	2,3

					LOU	VER	SCHEDULE		
UNIT NO	SERVES	CFM	MAX APD	D	MENSION	NS DEPTH	MIN FREE AREA SQUARE FT	AND MODEL	NOTES
L-1	AHU-1	8000	0.08	84	36	4	13	RUSKIN ELF6375DX	

GENERAL NOTES. 1. THE CONTRACTOR IS RESPONSIBLE FOR WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. DISCONNECT, REMOVE, AND OR RELOCATE EXISTING MATERIAL EQUIPMENT AND OTHER WORK AS NOTED OR REQUIRED FOR PROPER INSTALLATION OF NEW SYSTEM.

2. APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THER PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER, PRIOR TO SUBMITTING A PROPOSAL OF ANY WORK OR MATERIALS WHICH VIOLATE THE LAWS AND REGULATIONS.

3. WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE NATIONAL STANDARD PLUMBING CODE (LATEST EDITION), LOCAL CODES, AND OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.

4. WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BULLDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.

5.CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.

7. PROVIDE NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING, DO NOT LEAVE PIPING OPEN ENDED.

8. THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

9. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.

10. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

11. THE PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON THE MANUFACTURER'S COUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR THE DETAILS OF THE COUIPMENT THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE COUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. 11.

12. PROVIDE SUBMITTALS FOR EQUIPMENT AND MATERIAL TO THE ENGINEER FOR APPROVAL CONTRACTOR SHALL PROVIDE THREE COPIES. 12.

13. EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL"BY ENGINEER.

PROVIDE AS-BUILT DRAWINGS. CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS AND 15. APPLICATIONS.

6. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT PROVIDED.

17. EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

18. COORDINATE WORK WITH OTHER TRADES.

19. CONTRACTOR SHALL COORDINATE SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

20. PIPING SHOWN SHALL BE CONCEALED UNLESS OTHERWISE NOTED.

1. PIPING PENETRATIONS THROUGH NEW, EXISTING WALL OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR. SEAL OPENINGS AROUND PIPES THROUGH PARTITIONS AND WALLS WITH APPROVED FIRE STOPPING MATERIAL MEETING ASTM E814 21. AND NEPA-101

22. PLUG OR CAP PIPING. DO NOT LEAVE PIPING OPEN ENDED.

23. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR.

24. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS, INVERTS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER

25. LOCATE ACCESS PANELS IN NON ACCESSIBLE CEILINGS AND WALLS FOR VALVES, CONTROLS, VAV BOXES AND OTHER ITEMS THAT REQUIRE ACCESS TO PROPERLY MAINTAIN OR SERVICE THE BUILDING. 25. L FOR

26. ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH TRADES. EXHAUST DUCTS SHALL BE A MINIMUM OR 10"-0"FROM FRESH AIR INTAKES.

27. PIPING IS SHOWN DIAGRAMMATICALLY AND DOES NOT SHOW OFFSETS, DROPS, AND RISES OR RUNS. THE CONTRACTOR SHALL ALLOW IN THE BID FOR ROUTING TO AVOID OBSTRUCTIONS. 27.

<u>VIBRATION AND SEISMIC CONTROL</u>COMPLY WITH LOCAL AND STATE CODES FOR SEISMIC ISOLATION, THE DRAWINGS DO NOT SHOW SEISMIC ISOLATION POINTS, THEREFORE ALLOW FOR SEISMIC ISOLATION IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

IDENTIFICATION: PROVIDE PIPE, DUCT AND EQUIPMENT IDENTIFICATION.

HANGERS AND PIPE SUPPORTS. ABOVE GRADE: PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. SPACING OF PIPE SUPPORT SHALL BE AS SPECIFIED IN THE INTERNATIONAL MECHANICAL CODE. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.

BELOW GRADE: EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH. INTERIOR PIPING SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE. EXTERIOR WATER PIPING SHALL HAVE A MINIMUM OF 48"OF COVER.

TESTING AND BALANCING IESDING AND BALARVING 1. PIPING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WTH STANDARD PRACTICE AND THE INTERNATIONAL MECHANICAL CODE. TEST SYSTEMS AT 1.5 TIMES THE OPERATING PRESSURE FOR ONE (1) HOUR.

INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DELOPED RATING OF 50 OR LESS IN ACCORDANCE WITH ASTM E84

BOILERS 2. BALANCING SHALL BE PERFORMED BY AN INDEPENDENT TESTING AND BALANCING AGENCY IN ACCORDANCE WITH SMACNA, AABC, OR NEBB STANDARDS. SUBMIT THREE COPIES OF REPORT. HEAT EXCHAN

COOLING TOWE AIR HANDLER

PIPE INSULATION SHALL BE 1" THICK FIBERGLASS(ASTM C547) FOR PIPING 1.5" AND SMALLER AND 1.5" THICK FOR PIPING 2" AND LARGER. INSULATION SHALL FOIL SCRIM JACKET. PROVIDE PVC FITTING COVERS. INSULATE JOINTS, FITTINGS, VALVES, FLANGES, STRAINERS AND PIPING. INSULATE CHILLED WATER PIPING AND HEATING PIPING. HEAT PUMP WATER LOOP DOES NOT PEOLIDE INSULATION. REQUIRE INSULATION.

DUCT INSULATION SHALL BE 2" THICK FIBERGLASS DUCT WRAP(0.22 THERMAL CONDUCTIVITY AT 75F) WITH REINFORCED ALUMINUM FOIL VAPOR BARRIER. INSULATE SUPPLY, RETURN DUCTS AND EXHAUST DUCT FROM ENERGY RECOVERY COIL TO ROOF EXHAUST FAN.

HVAC CONTROLS HYAC CUNITICLES PROVIDE A COMPLETE AND FUNCTIONAL DIRECT DIGITAL CONTROL SYSTEM WTH GRAPHICS.

PROVDE DIELECTRIC FITTING OR BRONZE FITTING BETWEEN DISIMILIAR METALS.

BALL VALVES SHALL BE APOLLO OR APPROVED EQUAL. PVC BALL VALVES SHALL BE SPEARS OR APPROVED EQUAL.

HEATING PIPING SHALL BE TYPE L COPPER WITH SOLDERED COPPER FITTINGS, VICTAULIC MECHANICAL JOINTS OR PRO-PRESS FITTINGS; OR SCHEDULE 40 STEEL PIPING WITH THREADED CAST IRON FITTINGS, OR VICTAULIC MECHANICAL JOINTS; OR SCHEDULE 80 PVC PIPING. SCHILLED WATER PIPING SHALL BE SCHEDULE 80 PVC PIPING.

HEAT PUMP LOOP PIPING SHALL BE SCHEDULE 80 PVC PIPING.

CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. EXTEND PIPING TO NEAREST FLOOR DRAIN OR INDIRECT WASTE

<u>GROUND-LOOP PIPING</u> INTERIOR PIPING SHALL BE SCHEDULE 80 PVC. EXTERIOR PIPING SHALL BE HDPE PE3408/3608.

PUMPS

INSULATION

AND NFPA90A.

STEAM PIPING

REFRIGERANT PIPING TYPE L OR ACR DRAWN COPPER TUBING WITH COPPER FITTINGS AND BRAZED JOINTS. INSTALL IN ACCORDANCE WITH ASHRAE STANDARD 15.

WATER TREATMENT PROVIDE WATER QUALITY TESTING AND TREATMENT FOR ONE YEAR.

PROVIDE GLYCOL FOR BOILER LOOP. GLYCOL SHALL BE POLYPROPYLENE, FOOD GRADE, -7 FREEZE POINT. -15F FLOW POINT. -60F BURST POINT. NOBURST OR APPROVED EQUAL. SYSTEMS HAVE BEEN SIZED FOR FUTURE 25% GLYCOL WHEN SYSTEM IS CONVERTED TO GROUND SOURCE HEAT PUMP SYSTEM

DUCTS

EXCEPT AS SHOWN OR NOTED, DUCTWORK SHALL BE GALVANIZED STEEL AND SAHLL BE INSTALLED IN ACCORDANCEWITH SMACNA DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE. DUCT CONSTRUCTION SHALL BE BASED ON 2" PRESSURE CLASS.

SEAL TRANVERSE AND LONGITUDINAL JOINTS.

ELBOWS SHALL HAVE A RADIUS/DIAMETER OF 1.5. PROVIDE TURNING VANES IN RECTANGULAR ELBOWS

DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS.

FLEXIBLE DUCT SHALL BE RATED CLASS I, UL181, 1.5" INSULATION WITH POLYETHYLENE JACKET. SIX FOOT MAXIMUM LENGTH.

MANUAL VOLUME DAMPERS SHALL BE GALVANIZED STEEL WITH A BEARING AT ONE END OF DAMPER ROD AND QUADRANT WITH LVER AND LOCKSCREW. ATTACH FLOURESCENT TAPE TO HANDLE IN CONCEALED AREAS. PROVIDE VOLUME DAMPERS AT EACH BRANCH.

PROVIDE ACCESS DOORS IN DUCTS WHEREVER CONTROLS, CONTROL DAMPERS, FIRE DAMPERS, COILS AND INSTRUMENTS ARE INSTALLED.

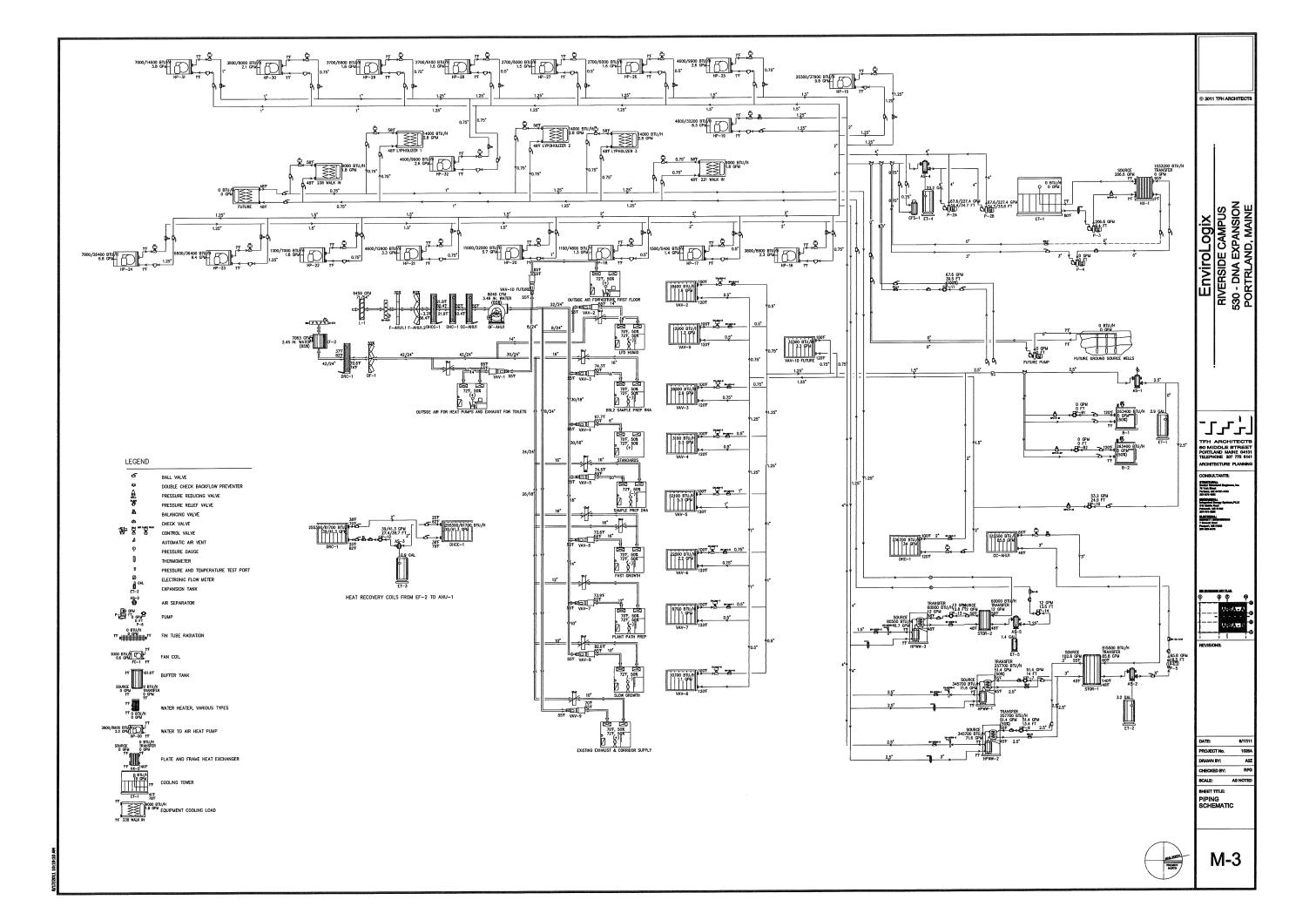
PROVIDE FIRE DAMPERS IN FIRE RATED PARTITIONS AND FIRE RATED FLOORS.

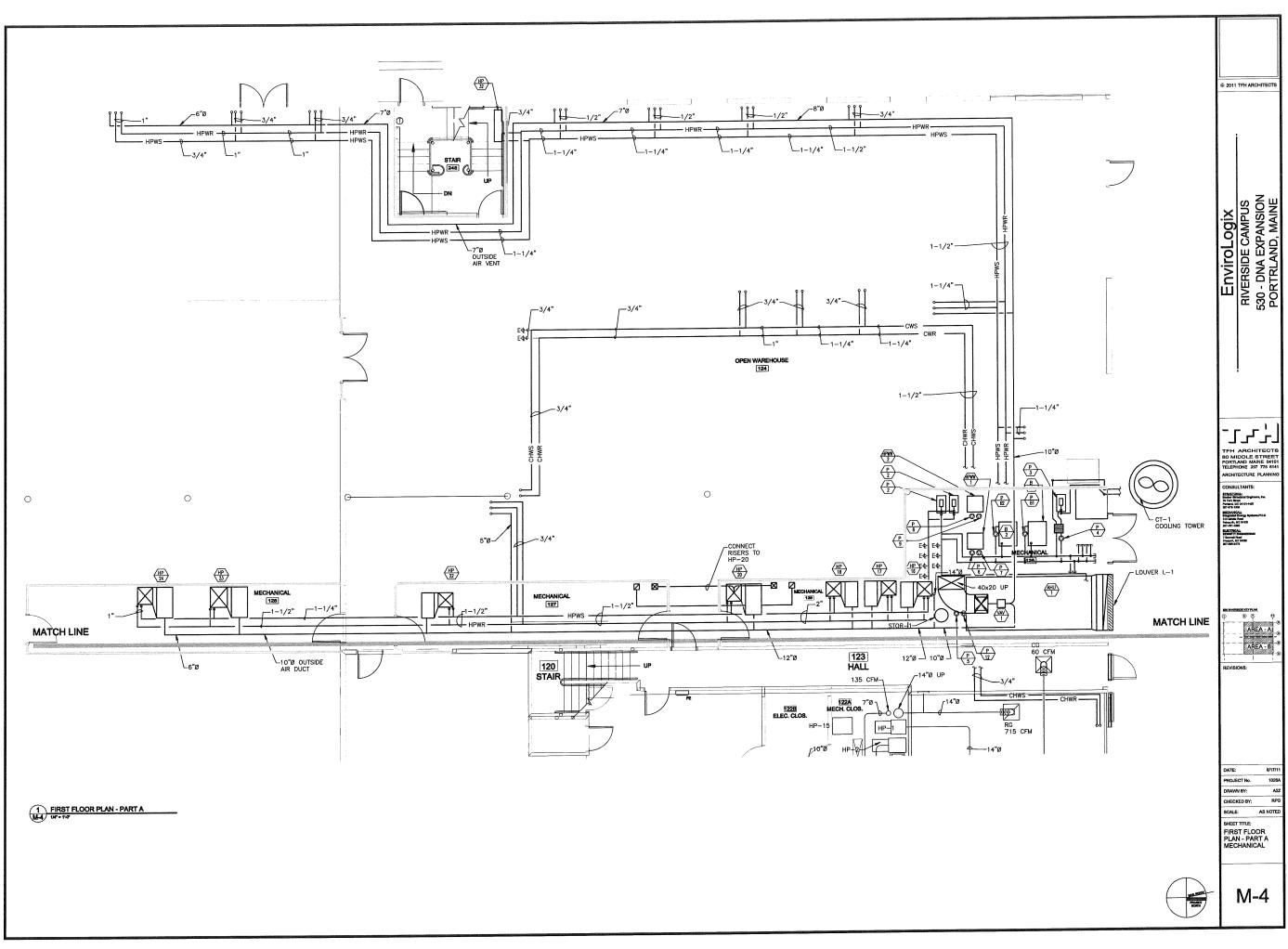
DIFFUSERS, R SUPPLY AIR DI SHALL HAVE A GRILLES SHAL

AIR FILTRATION		
EANS		
DIFFUSERS, REGISTERS, GRILLES AND LOUVERS SUPPLY AIR DIFFUSERS AND GRILLES SAHLL BE WHITE. SUPPLY DIFFUSERS SHALL HAVE ADJUSTABLE SEAL DIFFUSERS TO HARD CEILINGS. RETURN GRILLES SHALL HAVE A 3/4" BLADE SPACING. UNIT HEATERS	© 2011	TFH ARCHITECTS
Humidifier.		
WATER TO AIR HEAT PUMPS CLIMATE MASTER TRNAQUILITY SERIES, R-410A, ECM MOTORS, ULTRAQUIET PACKAGE, CSM UNIT MOUNTED CONTROLS, EXTENDED RANGE. PROVIDE DYNAMIC AIR CLEANER MODEL V-8 (24 VOLT) WITH A MERV 13 RATING FOR HEAT PUMPS NOTED ON DWG M-2.		
WATER TO WATER HEAT PUMPS		
DESSICANT DEHUMIDIFIER		7
		MPUS ANSION MAINE
BOILERS	÷,	A S S
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COOLING TOWERS		/ERSIDE C - DNA EXF RTRLAND
AIR_HANDLER	ir	ē₹₹
COILS	2	SE N E
<u>Cleaning and Flughing</u> The Piping Systems (Existing/New) shall be cleaned and flughed Prior to final charging of systems	Ш	RIVERSI 530 - DN/ PORTRL
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	80 MI	ARCHITECTS
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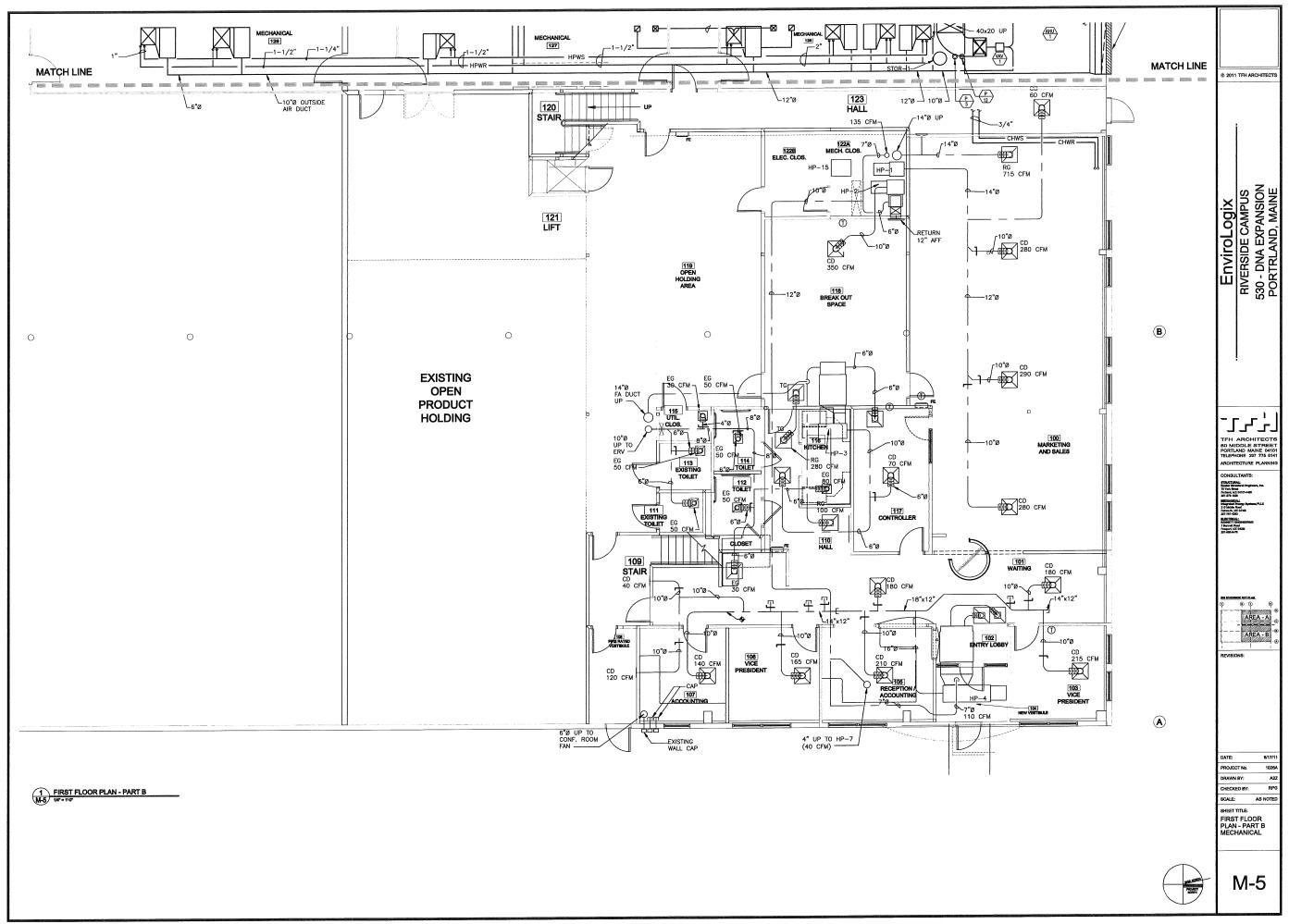
	SINGLE DUCT TERMINAL UNIT SCHEDU
PUMP SCHEDULE	HEATING COOLING SEASON SEASON 4 ACH ENTERING LEAM
FLUID PUMP ELECTRICAL NANUFACTURER FLOW HEAD MOTOR MOTOR	MANUFACTURER INLET SEASUM SCASUM MANUFACTURER INLET ARRICOW MINIMUM LOAD DB SIZE RATE RATE RAREARCOW LOAD DB SIZE RATE (CAN) (CRTV) (CR
AND RATE WORKING LOSS EFFICIENCY SIZE BHP SPEED	HEATING 900 90 29000 55 65
ID MODEL NUMBER LOCATION THE COMPANY TECH OF A VIA TRONT OTE 120/1/60	VAV-1 HT PUMPS 12 REATING REFEAT 300 300 00 200 52 52 VAV-2 LFD HUMID 12 HEATING HEATING 887 90 18400 55 74.
P-B1 TACC 2430 MECH ROUM CIRCULATOR 33.9 WATER 15.1 N/A IRON 0.16 N/A 3450 120/1/60	HEATING 1386 1386 125 28800 55 74.
P-2A TACO 1641 MECH ROOM HORIZONTAL INLINE 74 WATER 32 55.3 IRON 2 1.29 1750 460/3/60	VAV-3 SAMPLE RNA 16 REHEAT 0 52 52 VAV-4 STANDARDS 14 HEATING 67 1112 175 19900 55 71.
P-28 TACO 1641 MECH ROOM HORIZONTAL INLINE 74 WHAT 25.5 70.3 PROVZE FUTED 3 2.369 1760 460/3/60 1	SAMPLE PREP HEATING 24/9 0 52100 53 74
P-3 14C0 C12507 HORZ CLOSE-COULD FOR SUCTION 232.4 WATER 24.8 72 BRONZE FITTED 3 1.868 1160 460/3/60 1	VAV-5 DNA 18 REHEAT 0 52 52 VAV-6 FAST GROWTH HEATING 1100 1100 175 22000 55 73 VAV-6 FAST GROWTH 14 HEATING 1100 175 2000 55 52
P-5 TACO 1635 MECH ROOM HORIZONTAL INLINE 99.7 WATER 19.2 62.2 IRON 0.75 0.705 1750 1207/460	VAV-6 FAST GROWTH 14 HEATING REHEAT ITO0 ITO0 <thito0< th=""> <thito0< th=""> ITO0</thito0<></thito0<>
P-6 TACO 2470 MECH ROOM CIRCULATOR 75.2 MALE 10.1 N/A IRON 0.5 N/A 3450 120/1/60	NAV-8 SLOW GROWTH INCREATING 10 360 360 50 10700 55 80.2 HEATING 10 HEATING REFEAT 0 52 52
P-7 IACO 24/0 MECH ROOM CIRCULATOR 79.2 WATER 16.4 N/A IRON 0.5 N/A 3450 120/1/60	VAV-9 CORRIDOR - HEATING 90 8100 55 70 REHEAT 0 55 50
P-9 TACO 2470 MECH ROOM CIRCULATOR 58.6 WATER 13.3 N/A IRON 0.5 N/A 3450 120/1/50	VAV-10 FIRST FLOOR
P-10 TACO 2470 MECH ROOM CIRCULATOR 36.0 WHAT 2.7 N/A IRON 0.04 N/A 3250 120/1/60	
P-11 TACO 007 MECH ROOM CIRCULATOR 9.2 WATER 3.7 N/A IRON 0.04 N/A 020 100/7/10 P-12 TACO 2450 MECH ROOM CIRCULATOR 45 WATER 29.9 N/A IRON 0.5 N/A 3450 120/1/60	LOUVER SCHEDULE
	AIR PHY MAXIMUM
BOILER SCHEDULE	MANUFACTURER AND AIR RATE PRESSURE T
FLUID ELECTRICAL PHYSICAL PHYSICAL	ID MODEL NUMBER LOCATION TYPE TYPE (CFM) (IN. WATER) L-1 RUSKIN MECH ROOM STATIONARY INTAKE 9244 0.15
MANUFACTURER UNPUT DUTPUT FLOW LEAVING WHEAD WOTOR SIZE MOTOR STACK WOTOR (STACK WEIGHT	
AND LOCATION TYPE TYPE LOCATION (B10/A) (B10/A	FLUID-TO-FLUID HEAT PUMP SCHED
B-1 HTP MODCON 500 CONDENSING, INDUCED NAT GAS 392000 368500 33.9 98/120 WATER 12 1 0.167 120/1/80 120/1/80 B-2 HTP MODCON 500 CONDENSING, INDUCED NAT GAS 460700 366500 33.9 98/120 WATER 12 1 0.167 120/1/80 120/1/80	SOURCE FLUID TRANSFER FL
	MANUFACTURER FLOW LEAVING HEAD FLOW AND LOAD RATE TEMP. WORKING LOSS LOAD RATE
COIL SCHEDULE PHYSICAL	10 MODEL HOMELY COOMIN THE
ENTERING LEAVING ENTERING COLL FIN MINIHUM NO.	HPWW-1 THW 340 MECH 1000 VEHICL COCCUS COLOR COLOR COLOR
MANUFACTURER ANPLOW SENSIBLE TEAM', T	HPWW-2 CLIMATE MASTER TMW340 VERTICAL HEATING 0 0 ?/? WATER 15 0 0 COOLING 394100 79.2 80/90 158.6
CO 4111 MODEL NOMBER CONTROL 510/10 100 100 100 100 100 100 100 100 10	CUOLING 334100 /3.2 60/30 15 233600 35.0
DHC-1 HEATING B240 466600 8.1/4 55/35.7 0.25 47.2 120/10 Intil 20 111/24 18.5 8/8 DHCC-1 HEATOR E 8240 12200 112200 -3.3/2-5.6 8.1/4 0.25 45 65/60 WATER 5 1 111/24 18.5 8/8	FLUID-TO-AIR HEAT PUMP SCHEDULE
LICAT REC 8240 112600 12600 70 8/59.1 60/54.9 0.75 45 60/65 WATER 5 1 11/24 19.5 6/6	AIR FAN FLUID
HC-AHU1 AHU1 HEATING 0 0 0 7/9 7/9 0.25 0 7/9 WALER 3 2 7/31.5 0 8/8	MANUFACTURER SERVES AIRFLOW SENSIBLE TEMP. STATIC FLOW PATE LOAD DB/WB PRESSURE RATE
Inc-slid Anuli HEAT REC 0 0 ?? ?? 0.75 0 ??65 WATER 15 2 0/31.5 0 8/8 RC-AHUI AHUI HEAT REC 0 0 0 ??? ?? 0.75 0 ??65 HATER 15 2 0/31.5 0 8/8	AND SERVES RATE LOAD LUAD DEPARE PACESSONE NAIC ID MODEL NUMBER LOCATION TYPE USAGE (CFM) (BTU/H) (BTU/H) (F) (IN WATER) (GPM)
	D CLIMATEMASTER 216 VERTICAL HEATING 798 14200 14200 67.6,4/2.3 84.2/59.6 0.15 5.1 HP-7A TS-V-0168 MEETING COOLING 798 15200 14600 76.6/64.8 59.6/59.5 0.15 5.1
COOLING TOWER SCHEDULE	HP-15 CLIMATEMASTER 260 VERTICAL HEATING 1237 28500 28500 61.1/38.9 82.5/59 0.15 9.5
AMBENT FINERING / OUTLET AND LENGTH /	OFFICE COOLING 1237 28300 24900 //.5/55.158.5/58.5 0.15 5.3
MANUFACTURER FAN TEMP, FLOW LEAVING HEAD MUTOR MOTOR CONTROL OPERATING WUTHY AUFO DW DR AVR RATE TEMP, WORKING LOSS MUTOR SIZE SPEED CIRCUIT WEGHT HEGHT	HP-16 TS-V-009B VS-3 COOLING 341 6600 6300 76.4/64.4 59.1/58.9 0.15 2.2
D MODEL NUMBER LOCATION TYPE (CFM) (T) (GPM) (T) FLUID (FT) QUAN. (HP) (RPM) VOLT/PH/HZ (LB) (N) NOTES	HP-17 CLIMATEMASTER TS-V-006A 231 VS-2 VERTICAL VS-2 HEATING 191 2200 2200 64.6/40.7 75.1/56.1 0.15 1.4 COOLING 191 4100 3700 77.1/64.8 59/58.8 0.15 1.4
CT-1 AMCOT SLVER SERIES OPEN, COUNTERFLOW, CENT 18900 86.36/71.24 208.8 88/78 WATER 1/1 1 2 1750 480/3/60 120/1/60	HP-18 CLIMATEMASTER 232 VERTICAL HEATING 171 1500 1500 65.7/52 73.9/55.7 0.15 1.2
HEAT EXCHANGER SCHEDULE	
SOURCE MEDIUM (HYDRONIC) TRANSFER MEDIUM (HYDRONIC) PHYSICAL	HP-19 TS-V-036 LYPHO VENTICAL ILLENTICO 1105 24000 22900 76.7/64.4 58.9/58.7 0.15 8.1
LOW LEAVING HEAD FLOW LEAVING HEAD FLOW LEAVING UP TO A DATA	HP-20 CLMATEMASTER TS-V-024 234 REAGENT VERTICAL HEATING 732 15300 15300 61.3/39 80.8/58.3 0.15 5.5 COOUNG 732 16400 14600 77.4/65.1 58.8/58.7 0.15 5.5
ID MODE LOCATION TYPE USAGE (BTU/H) (GPW) (T) FLUID (FT) (GPW) (T) FLUID (FT) (N/N) (FT') NOTES	HP-21 CLIMATEMASTER 240 VERTICAL HEATING 422 6400 6400 62.5/39.6 76.7/56.8 0.15 3.2
HX-1 PLATE COOLING 1039700 208.8 78/88 WATER 15 232.4 89.4/80 30% P CLY 10	COOUNG 422 9600 8500 //.3765 35.6756.5 0.13 0.2
FAN SCHEDULE	HP-22 TS-V-009B PACKAGE TENERAL COOLING 253 5200 4900 76.7/64.4 58.6/58.4 0.15 1.8
AIR FAN ELECTRICAL PHYSICAL MAXIMUM FAN LENOTH/	HP-23 CLIMATEMASTER TS-V-036 253 OFFICE VERTICAL HEATING 1186 23200 23200 61.5/45 79.7/57.9 0.15 9.1 COULING 1186 27100 23900 77.4/65.2 58.7/58.5 0.15 9.1
MANULAGTURER AND AND AND AND AND AND AND AND AND AND	HP-24 CLIMATEMASTER 255 TS-L-C024 TECH VERTICAL HEATING 868 10900 10900 63.6/40.2 75.2/56.2 0.15 6.6
AND THPE THPE COM NUML (NN. WATER) (RP.M) (NH) (HP) (HP) (HP) (NOT/PH/HZ (NN. NOTES ID MODEL NUMBER LOCATION TYPE (CM. NATER) (RP.M) (IN) (X2) (HP) (HP) (NOT/PH/HZ (IN) NOTES EF-2 GREENHECK VECTOR H MIXED FLOW, CENTRIFUGAL EXHAUST AIR 9705 3.95 0 3 1750 460/3/60	COOLING 868 19700 17400 77/64.7 58.3/58.2 0.15 0.5
OF-AHIU TRANE CUMATE CHANGER AHUI BACKWARD INCLINED OUTSIDE AIR 9244 3.89 0 3 1750 460/3/60	HP-25 TRC09 OFFICE OFFICE COOLING 354 7400 7000 77/64.3 58.6/58.4 0.15 2.5
	HP-26 CLIMATEMASTER TRC09 0FRCE 245 CABINET HEATING 210 3800 84.2/40.5 81.1/58.5 0.15 1.5 COOLING 210 4500 4200 77.1/64.6 58.6/58.4 0.15 1.5
AIR HANDLER SCHEDULE	HP-27 CLIMATEMASTER 246 CABINET HEATING 207 3800 3800 64.4/40.6 81.5/58.6 0.15 1.5
CARINET CARINET	COOLING 207 4400 4100 77.3/64.8 58.9/58.8 0.15 1.5 UID 28 CLIMATEMASTER 247 CABINET HEATING 209 3800 3800 64/40.4 80.9/58.4 0.15 1.5
ID MANUFACTURER SUPPLIT AND ARFLOW ID MODE NUMBER LOCATION (CFM) FANS COILS FILTERS OTHER VOLT/PH/HZ (IN) (LB) NOTES	HP-28 TRC09 OFFICE OCULIC 100 100 4200 77.1/64.5 58.5/58.4 0.15 1.5
ID MUDEL NUMBER LOCATION Colar Theory Theory AHU1 9244 OF-AHU1 CC-AHU1, RC-AHU1, RC-AHU1, R-AHU1.2 OO-AHU1 N/A 8/62/84	HP-29 CLMATEMASTER 250 TRC09 REETING CABINET HEATING 216 5200 50.4/38.5 82.8/59.1 0.15 1.7 COOUNG 216 5100 4300 77.7/65.6 59.1/58.9 0.15 1.7
	HP-30 CLIMATEMASTER 251 CABINET HEATING 221 5400 5400 57.1/36.7 79.7/57.9 0.15 2
	COOLING 221 6000 4700 78.1/66.3 58.5/58.3 0.15 2 UR 7 CLIMATEMASTER 252 OFFICE HEATING 414 9800 9800 58.5/37.5 80.5/58.2 0.15 3.7
FILTER SCHEDULE	HP-31 TRC09 MEETING CABINET Hormon Description B600 78/66.1 58.7/58.5 0.15 3.7
CLEAN DIRTY STATIC STATIC NUMBER	HP-32 248 STAIRWELL
AND AU LUXER AND LOCATION TYPE (X) (IN. WATER) ((IN. WATER) (IN. WATER) NOTES	
F-AHU1.1 BOLL FOREX SAMU ANGE 30% 0.5 0.8 6 0 F-AHU1.1 ANGE S0% 0.7 1.2 6 0 PROJECT SCHEDULE	
F = ARUL2 ANGLE B0% 0.7 1 4 1 F = ARUL2 MAGLE B0% 0.7 1 4 1	SEASON ALTITUDE UNIT NO SERVES ENTERING AIR TEMP T LB STEAM/HR KW VOL WHO ALTITUDE 0000 237 -5 10 310 12 48
EXPANSION TANK SCHEDULE NAME LOCATION (1778) (1 EXPANSION TANK SCHEDULE SINGLOGIX PORTLAND MAINE 3/10 86.2/	F) (FT) NOTES H-1 ROUW 237 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
FLUID PHYSICAL	
MANUACIONER WORKING ACCEPTANCE SIZE VALVE HEIGHT FITTING WATER TO AIR HEAT PLIMP SCHEF	
ET-1 TACO CX-42 VERT DIAPH FLOOR WATER 10.5/3.6 11 30 14/27 0.75 1	MANUFACTURER DE LI MIDIFI
EI-2 TAC CA-32 VERT DIAPH FLOOR WATER 10.5/3.6 11 30 14/27 0.75 1	AD EER PHASE WCA AND MODEL
57 4 TAGO CV 20 VERT DIAPH FLOOR WATER 1.9/0.7 8 30 14/22 0./5 1	
HP-1 RUXHI 0FTGL 6.0.0 7.2 630 20 6.5 7.2 630 20 7.7 /67.0 11.1 HP-2 REKADUT 2.6 4.8 350 30 65.9 2.9 3.3 80 77.7 /67.0 11.1 HP-3 CONTROLER 2.6 4.8 350 30 65.9 1.0 3.3 80 77.7 /67.0 11.1 HP-4 EKAT OFFICES 8.3 5.1 1250 30 16.0 25.6 3.8 80 77.7 /65.7 9.07	1 15.1 208-230/1 7.4 TSH 012 EMSTING 6.4 18.2.4 208-230/3 18.1 TSH 036 EMSTING 7.7 17.6 208-230/3 18.5 TSH 042 EMSTING 7.7 17.6 208-230/3 19.5 TSH 042 EMSTING
AIR SEPARATOR SCHEDULE HP-5 2ND OFFICE AREA 8.3 5.1 1270 30 62.0 26.2 3.4 80 76.3/65.3 32.5/2 HP-6 SAMPLE PREP 1.5 3.7 180 30 770.3 1.7 2.8 80 76.9/64.5 3.2/3	17.7 17.6 208-230/3 19.5 T5H 042 EXSTING DH-4 DRY ROOM 70°F 15% RH - 1.75" 15. 15.1 208-230/1 4.7 T5H 006 EXISTING NOTES:
MANUFACTURER HEAD DIA/ HEA	12 13/ 200-200/ 14.7 TSV 006 EXISTING 5.5 18.4 208-230/3 14.7 TSV 024 EXISTING
AND RATE WORKING LOSS HEIGHT HP-9 CONFERENCE 6.0 7.2 750 30 165.4 100 17.4 26.4 57.7 ID MODEL NUMBER LOCATION TYPE (GPM) FLUID (FI) (IN) NOTES HP-10 AMPLIFICATION 1.5 3.7 240 30 165.2 1.9 3.1 80 77.2/64.6 5.7/5 4.5 TATOO AVE C.18 14/27.25 1 HP-10 AMPLIFICATION 4.1 2.7 550 30 70.2 3.4 3.0 80 76.9/64.6 3.7/2 4.5 TATOO AVE C.18 14/27.25 1 HP-11 HP-10 AMPLIFICATION 4.1 2.7 550 30 70.2 3.4 3.0 80 76.9/64.6 3.7/2	0.0 15.2 208-230/1 4.7 TSV 006 EXISTING 9.3 16.5 208-230/1 16 TSV 018 EXISTING EXISTING
AS-1 TACO AC3F TANK 67.9 WATER 0.18 14/27.25 1 HP-12 HEAD MST MIL 4.1 2.7 500 30 70.2 4.3 4.0 60.0 10.02/2+10 100.02 100.0 11 HP-12 HEAD MST MIL 8.0 1.6 1.7 1.0 100 10.0 1	506 16.2 206-230/3 24.7 TTV 049 E05TNG 13 151 208-230/1 4.7 TSV 006 EASTING 7 151 208-230/1 4.7 TSV 006 EASTING 7 151 208-230/1 7.4 TSH 012 EASTING
AS-3 TACO AC3F TANK 99.7 WATER 0.38 14/27.25 1 HP-13 DEACWR PROD. 1.13 3.7 170 23 80 77.0/64.7 7.4/6 AS-4 INLINE 45 WATER 2.5 - </td <td>10,1 200-200/1 /.4 101 012 1-001110</td>	10,1 200-200/1 /.4 101 012 1-001110
I ASME CERTIFIED NOTES:	

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54	400 5	400	57.1/38	5.7 79.7	/57.9	0.15	2		?/? 80/88	25% PG			3.5/10	6	230/1/6	D				
91	300 9	800	58.5/3	3.3 58.5 7.5 80.5	/58.2	0.15	3.	7	?/?	25% PG	1	3	3.5/10	6	230/1/6	D				
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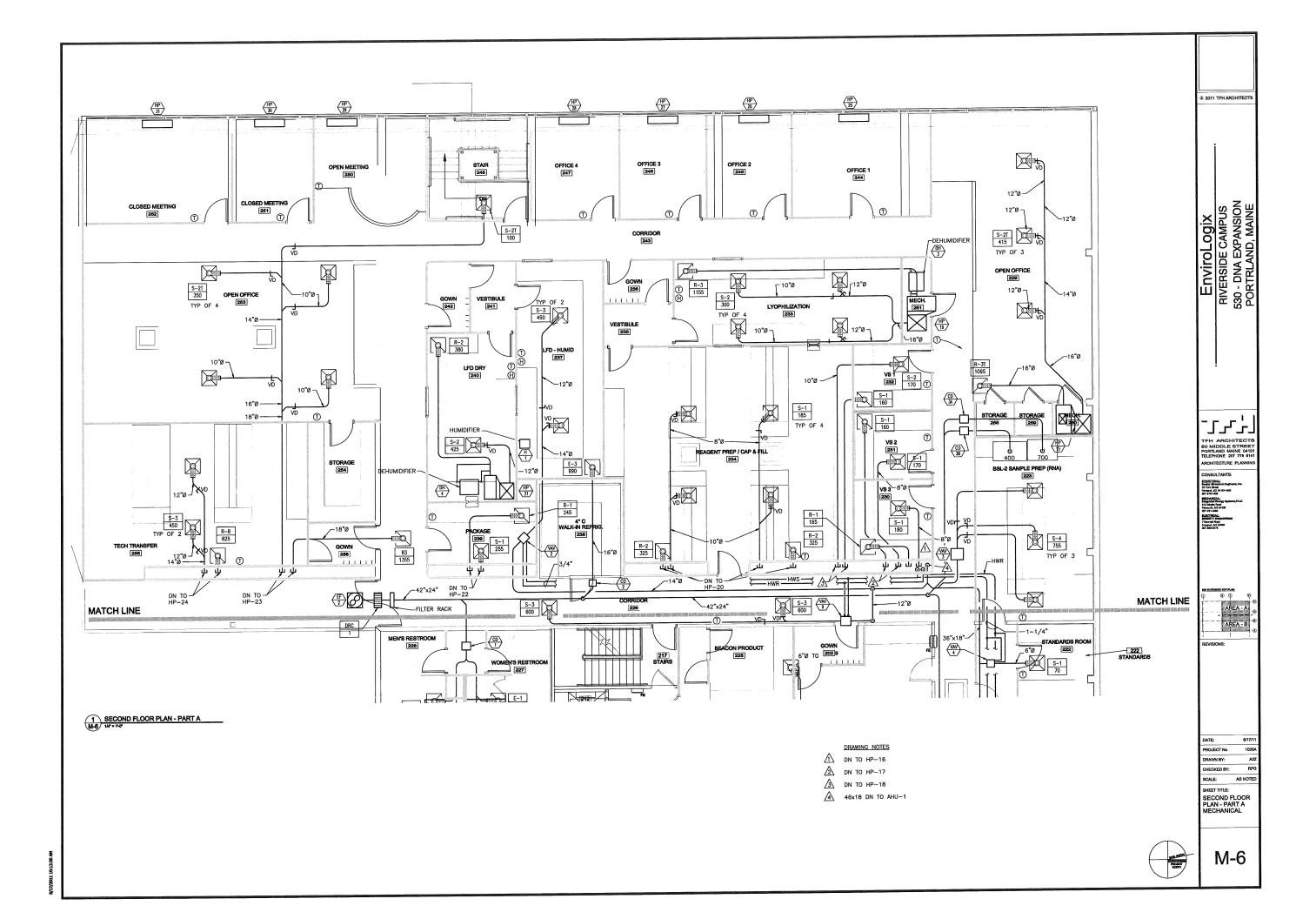


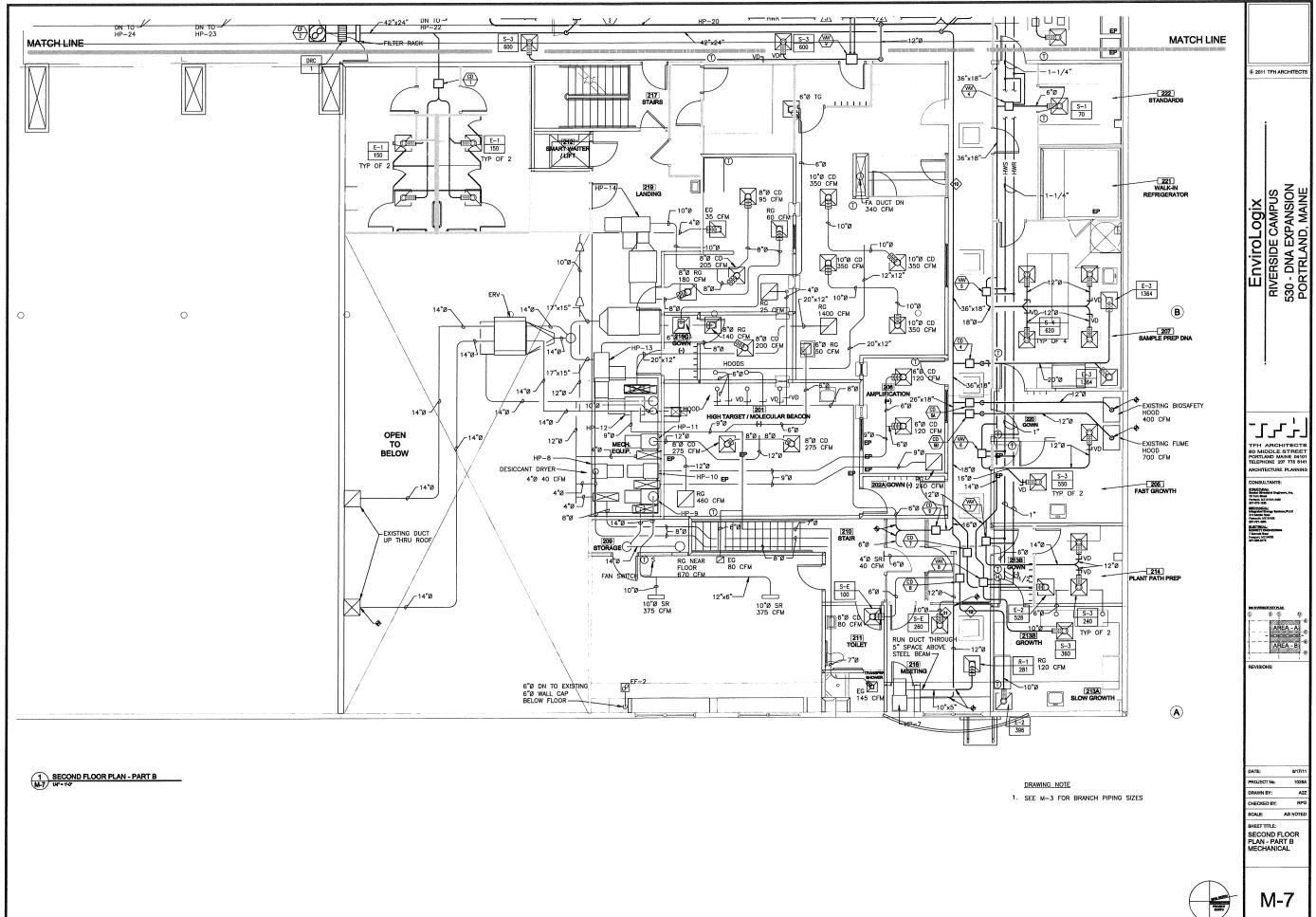


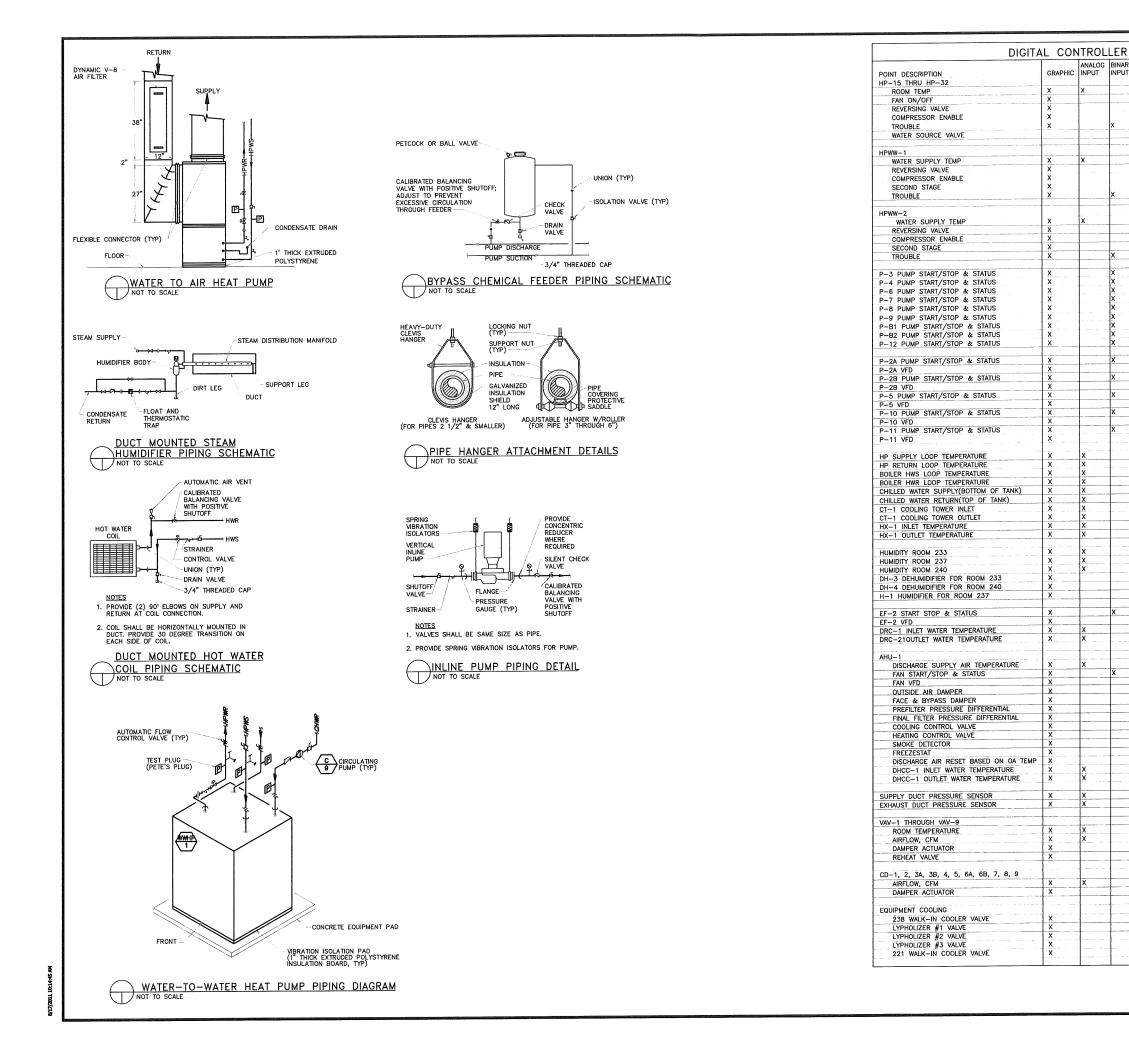
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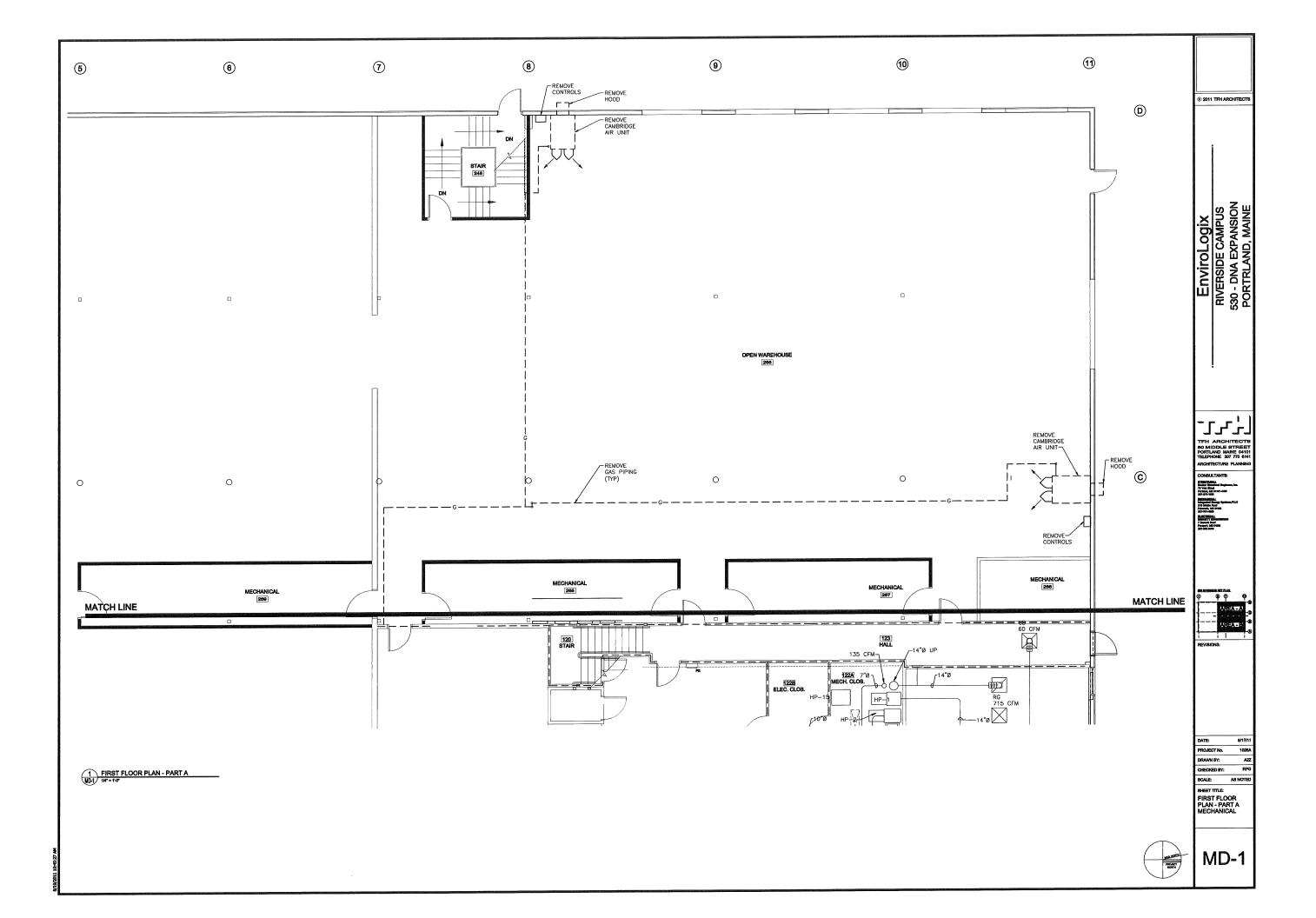


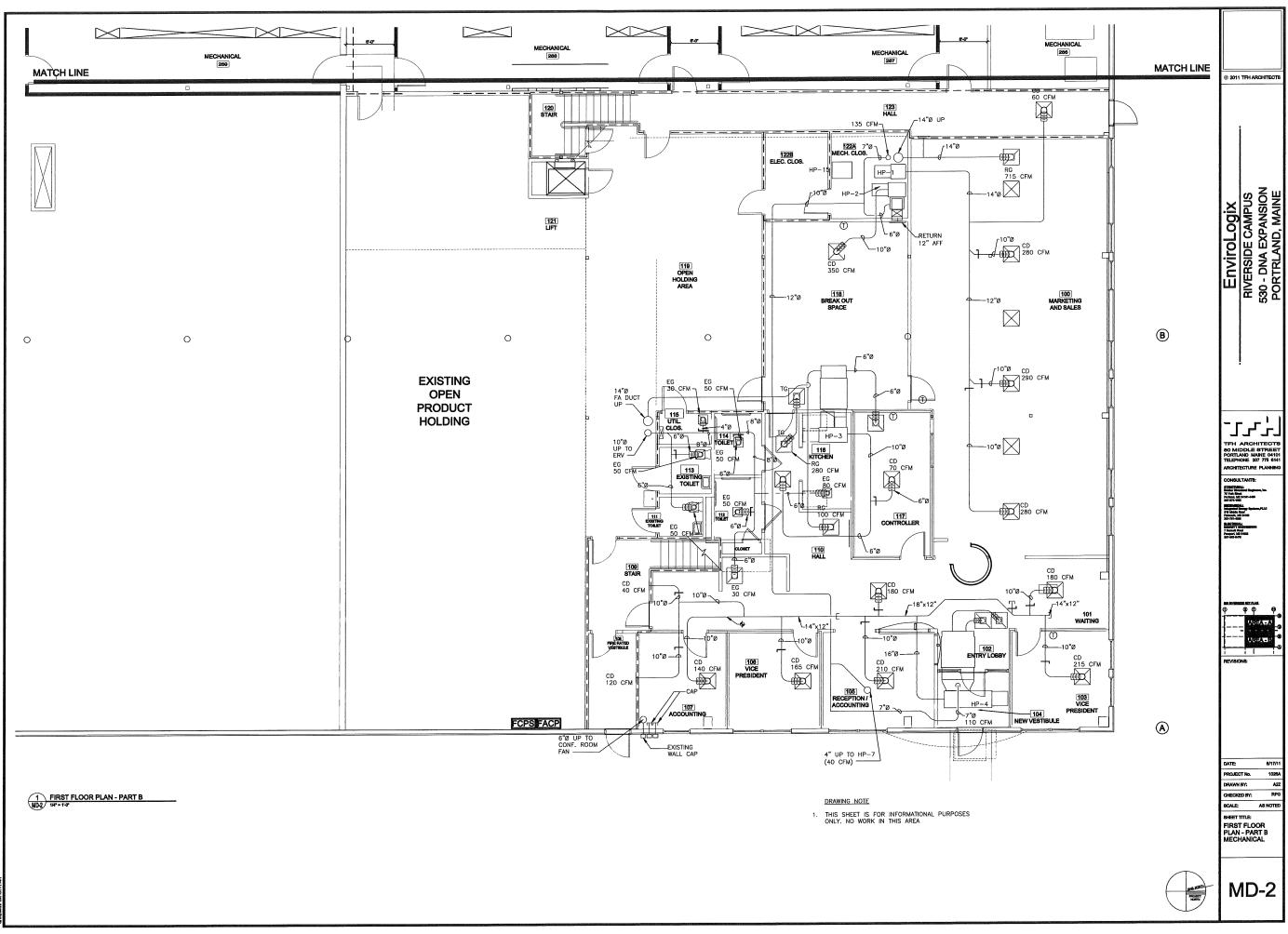


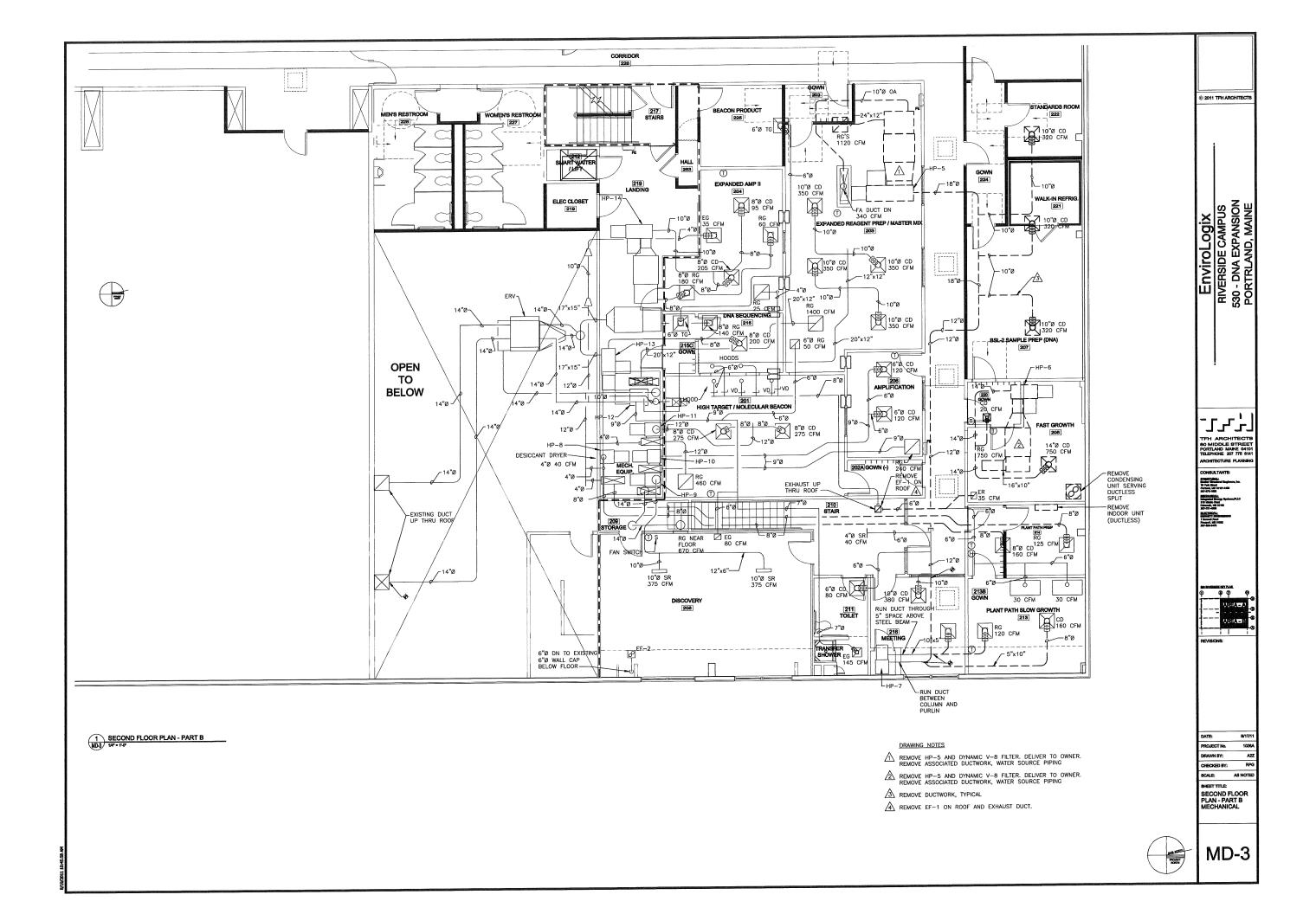


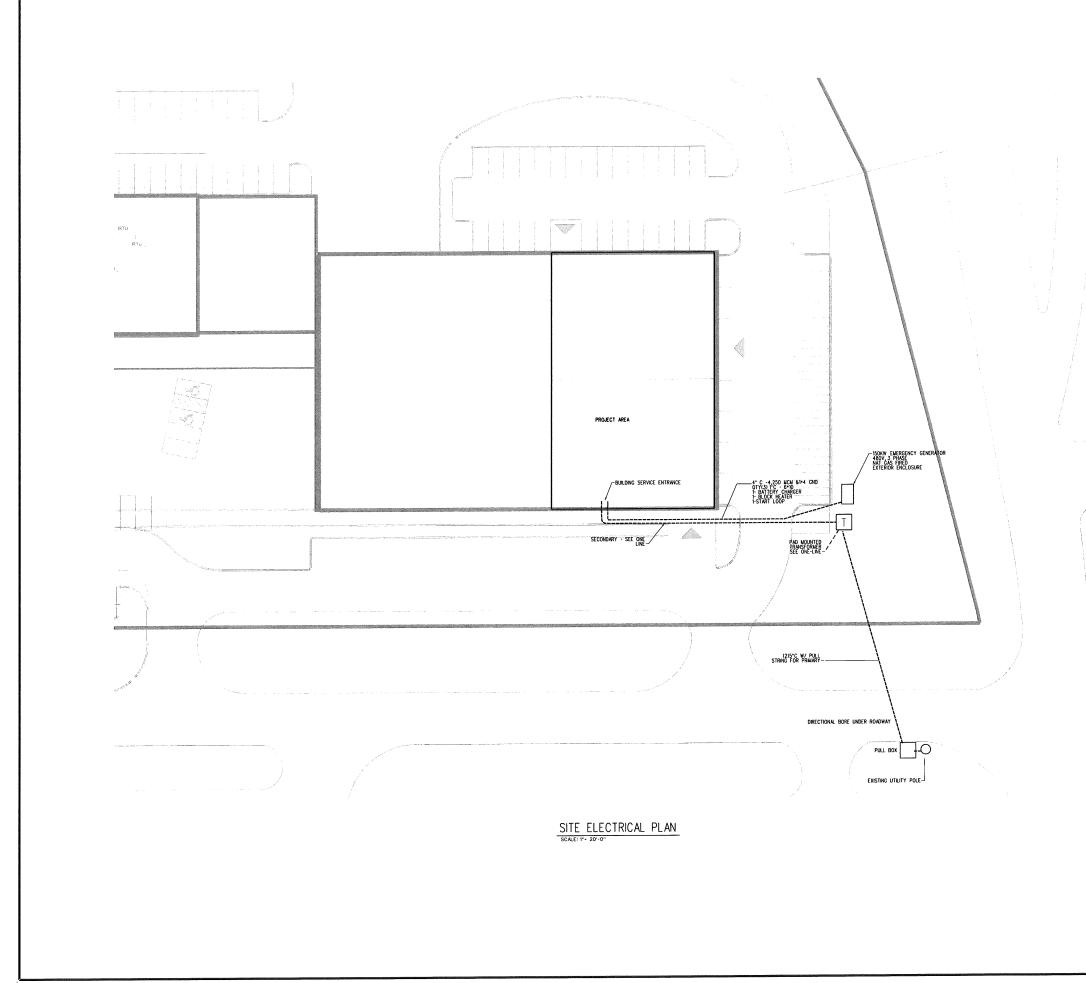
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REVISIC	AF	M REA - REA -	⊕ (° €)
DATE: PROJEC DRAWA CHECK SCALE: SHEET DETA	ED BY:		9/17/11 1028A A22 RPG (OTED)
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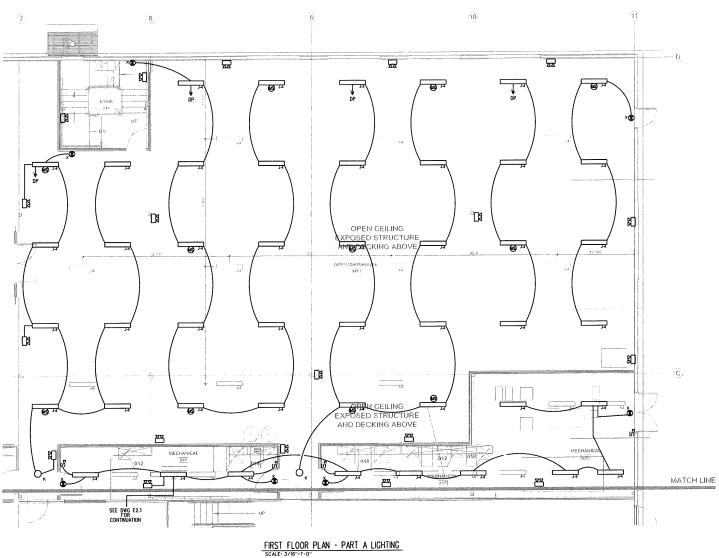




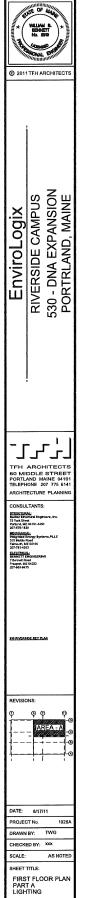


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	REVISIONS:	
	DATE: 8/17/11 PROJECT No. 1028A DRWN BY: TWG CHECKED BY: xxx SCALE: AS NOTED SHEET TITLE: SITE ELECTRICAL PLAN	
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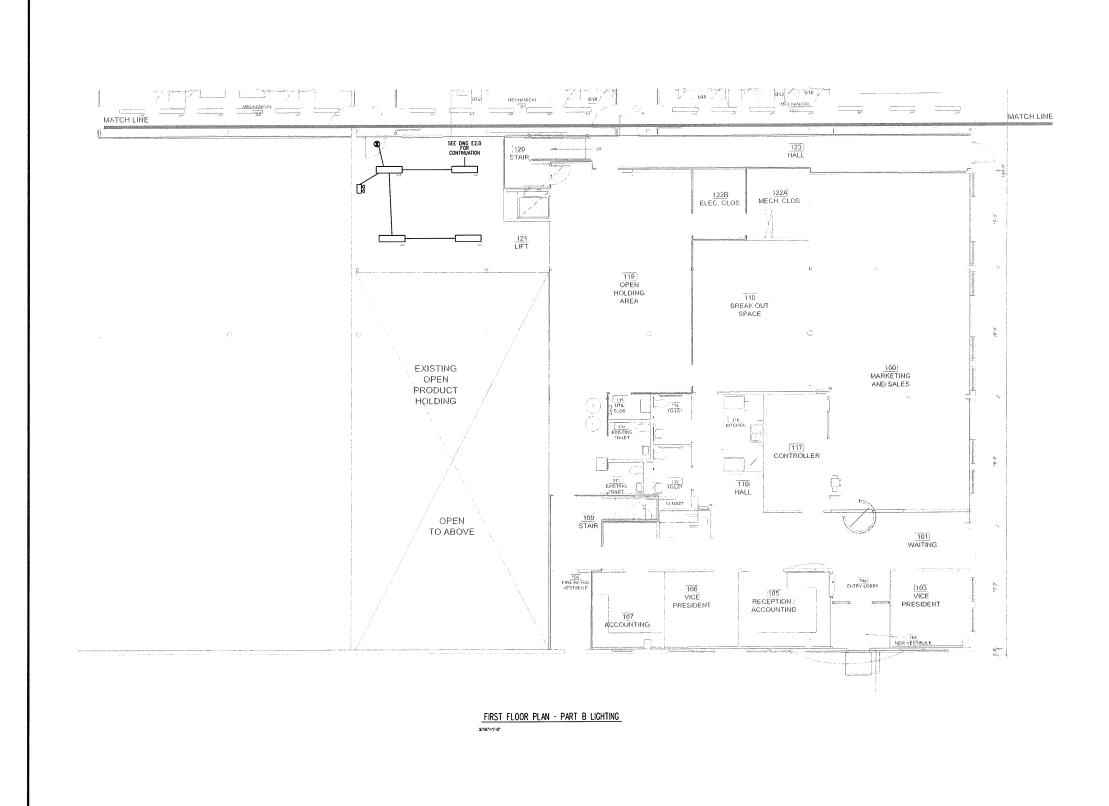




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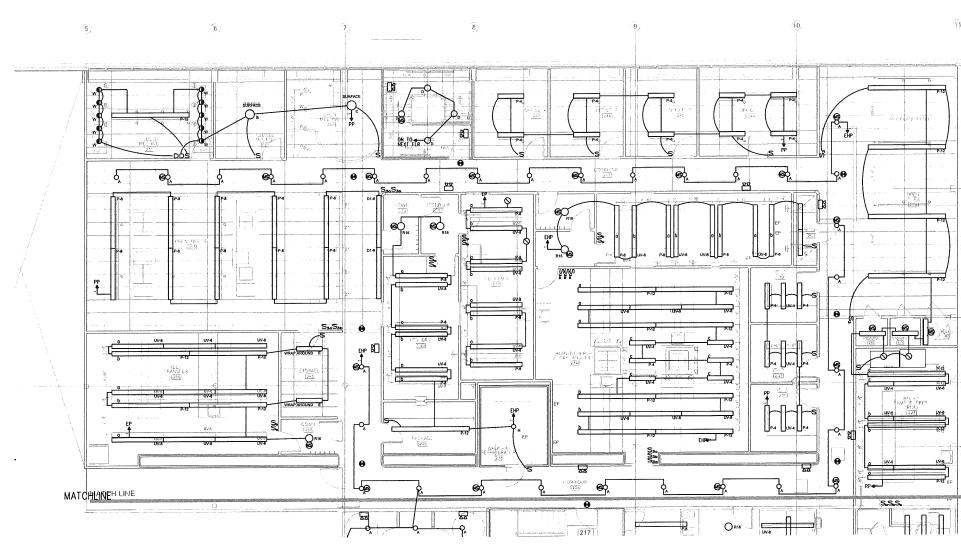




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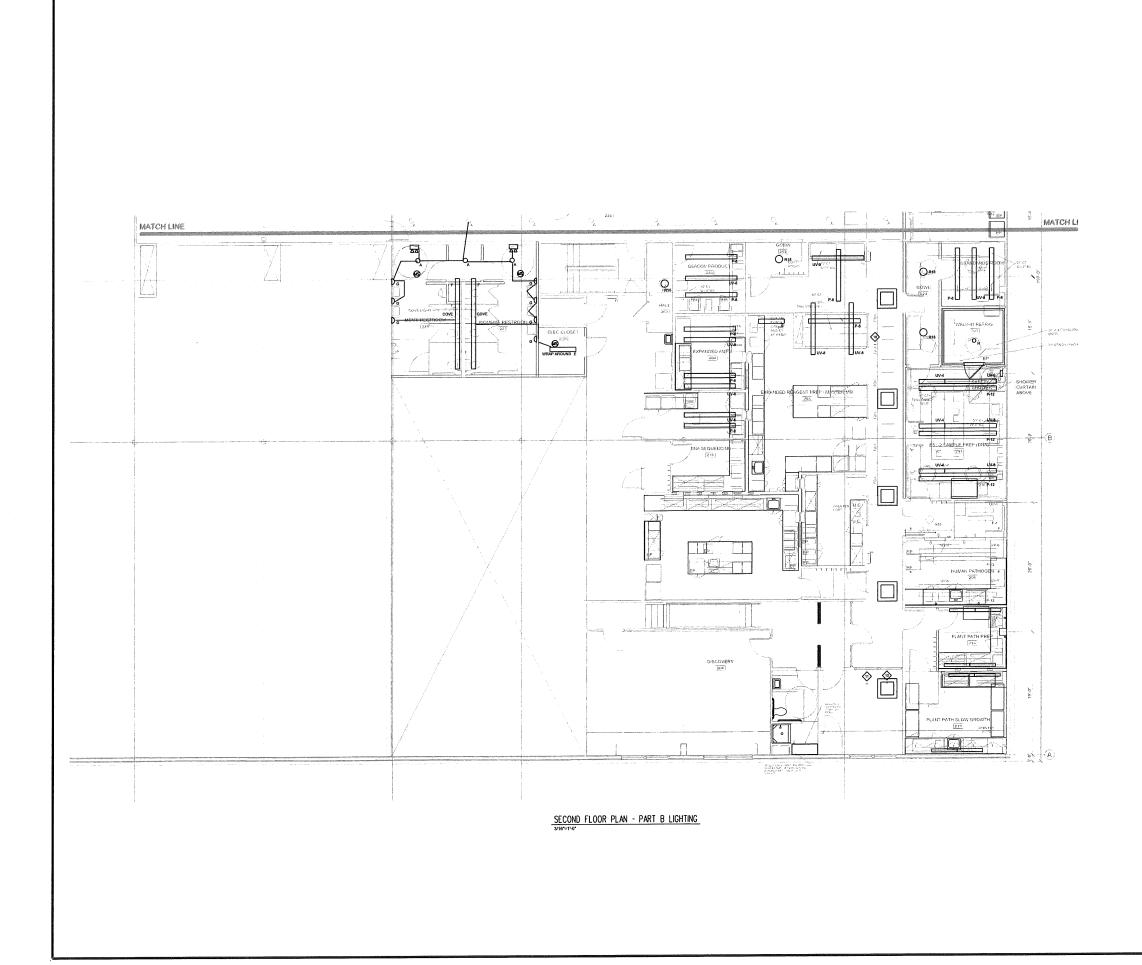


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	DATE: 8/17/11 PROJECT No. 1026A DRAWN BY: TWG CHECKED BY: XX SCALE: 3/16°=1*0AS NOTED SHEET TITLE: SECCOND FLOOR PLAN PART A LIGHTING
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EnviroLogix RIVERSIDE CAMPUS 530 - DNA EXPANSION PORTRLAND, MAINE

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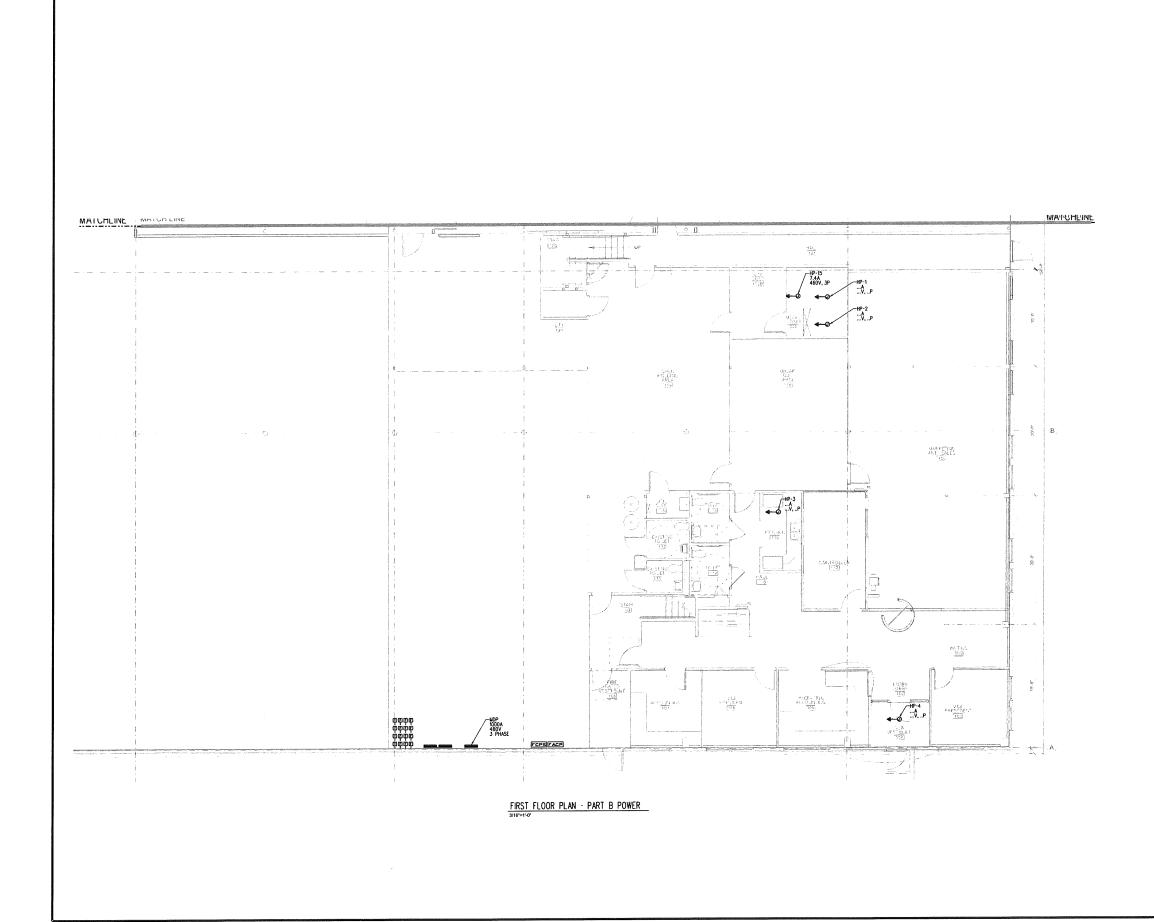
AREA - B EVISIONS:



SHEET TITLE:

SECOND FLOOR PLAN PART B LIGHTING

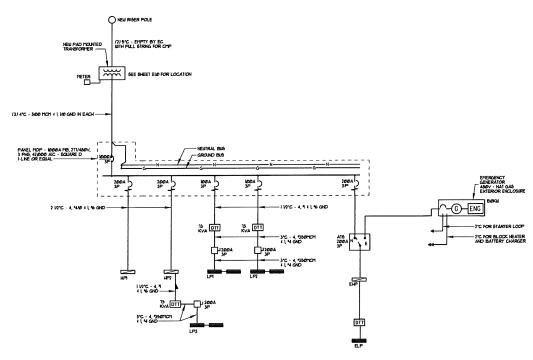
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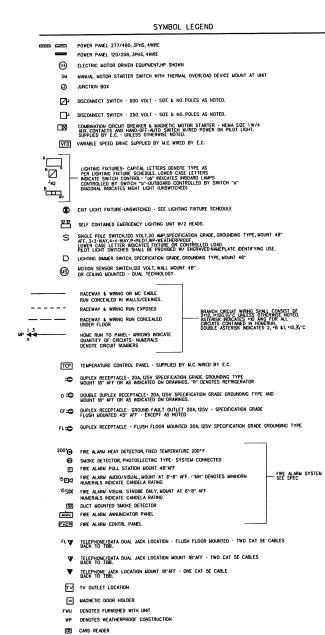
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	DATE 8/17/11 PROJECT No. 1028A DRAWN BY: TWG CHECKED BY: xxx SCALE: AS NOTED SHEET TITLE: FIRST FLOOR PLAN PART B POWER		
ERMITTING	E3.1		

	LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	LAMPS QUANTITY & TYPE	REMARKS			
A	PRESCOLITE LF6CFV32EB-6CFVWW	(1) 32W 4 PIN	····			
В	im the second se					
C						
Di	FINELITE S12-WM-ID-WCB-4'-2T8-SC-91W-120V-CE	(2) 18				
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J4	PROGRESS LIGHTING P7186-30EB	(2) F32T8				
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P-4	FINELITE S12-ID-WCB-4'-2T8-SC-91W-OPEN-120V-FA50"-CE-C1	(2) T8	4 FOOT LENGTH			
P-8	FINELITE S12-ID-WCB-8'-2T8-SC-91W-OPEN-120V-FA50"-CE-C1	(2) T8	8 FOOT LENGTH			
P-12	FINELITE S12-ID-WCB-12'-2T8-SC-91W-OPEN-120V-FA50"-CE-C1	(2) TB	12 FOOT LENGTH			
Q						
R16	PROGRESS LIGHTING P7308-60 (16" DIAMETER)	(1) FC2T9 32W				
R20	PROGRESS LIGHTING P7309-60 (20" DIAMETER)	(1) FC2T9 32W				
S						
T						
UV4	COLUMBIA LIGHTING WC4-232-EU	(2) TB 32W	4 FOOT LENGTH			
UV8	COLUMBIA LIGHTING WC8-232-EU	(2) TB 32W	8 FOOT LENGTH			
٧			····			
¥						
x	COMPASS LIGHTING CSXWREB3 (EXIT LIGHT)	LED SUPPLIED W/ UNIT				
Y	COMPASS LIGHTING CSEU2 (EMERGENCY LIGHT)	(2) 5.4W				
Z	••••					

AlLighting fixtures shall be energy star roled or have High performance T8 ballast and lamps to meet Efficiency maine criteria.



ONE LINE DIAGRAM



DOOR ELECTRIC STRIKE

P
BENNETT ENGINEERING



EnviroLogix RIVERSIDE CAMPUS 530 - DNA EXPANSION PORTRLAND, MAINE

᠂᠘ᠴ᠘ TFH ARCHITECTS 80 MIDDLE STREET PORTLAND MAINE 04101 TELEPHONE 207 775 6141 RCHITECTURE PLANN CONSULTANTS:

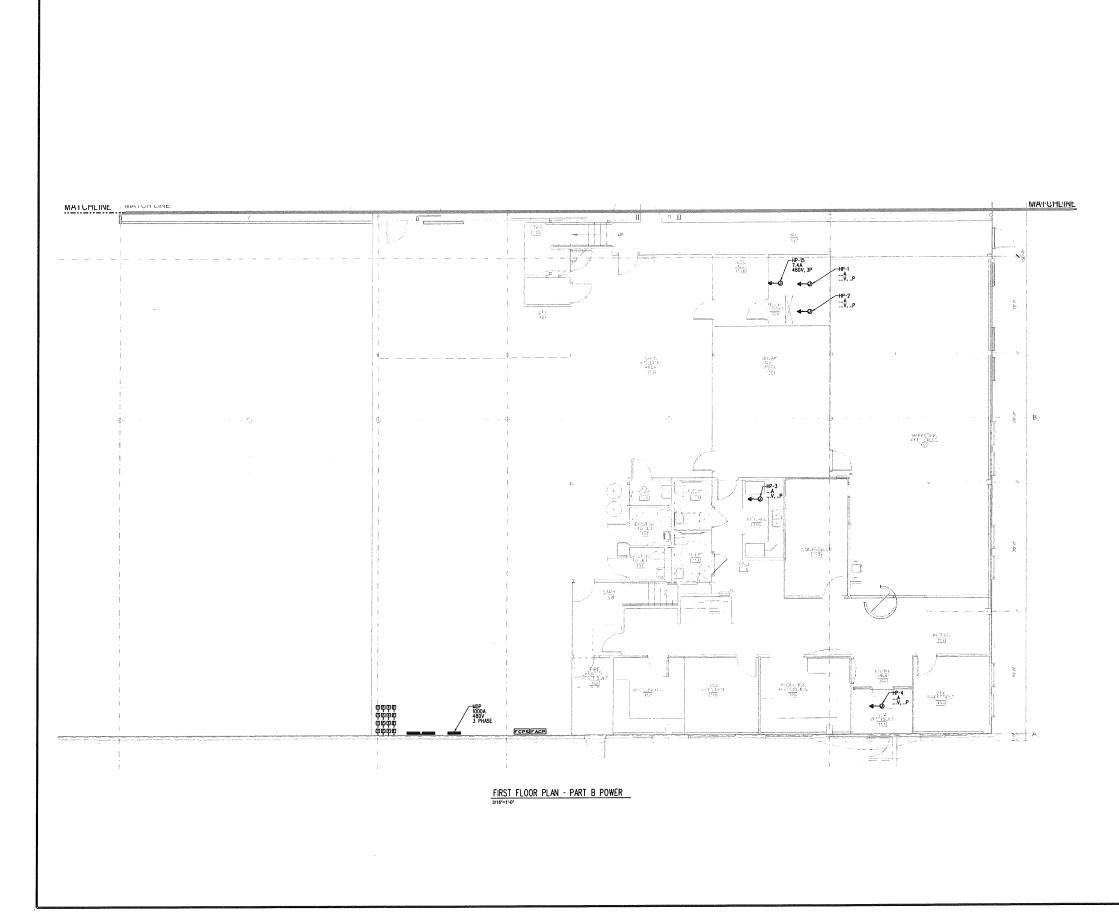
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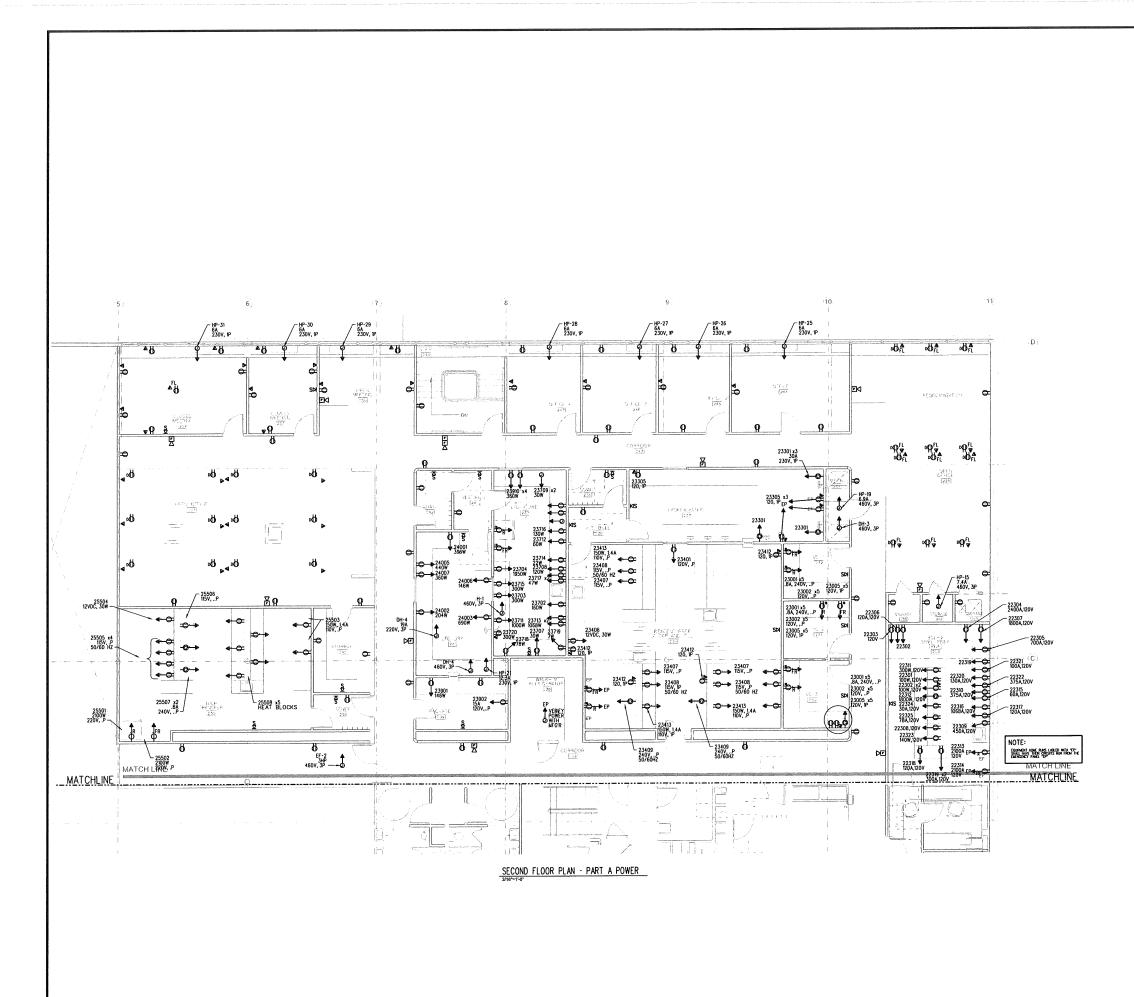
DATE: 8/17/11 PROJECT No. 1026 DRAWN BY: TWG CHECKED BY: XXX SCALE: AS NOTE

SHEET TITLE: LEGEND, DETAILS, SCHEDULES

E4.0



BENNETT BOINEERING PECHICAL SLETTERA CONTRECTORS		
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	EnviroLogix	RIVERSIDE CAMPUS 530 - DNA EXPANSION PORTRLAND, MAINE
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	80 MI PORTL TELEPH ARCHIT	ARCHITECTS DDLE STREET AND MAINE 04101 IONE 207 775 6141 ECTURE PLANNING LTANTS:
	BTRUCTUR Becker Stru 75 York Stru Portand, MC 207-879-181 MECHANC Integrated E 310 Middle F Faihouzh, M 207-781-426	AL; chural Englissera, inc. ei 184 191 - 44 50 3
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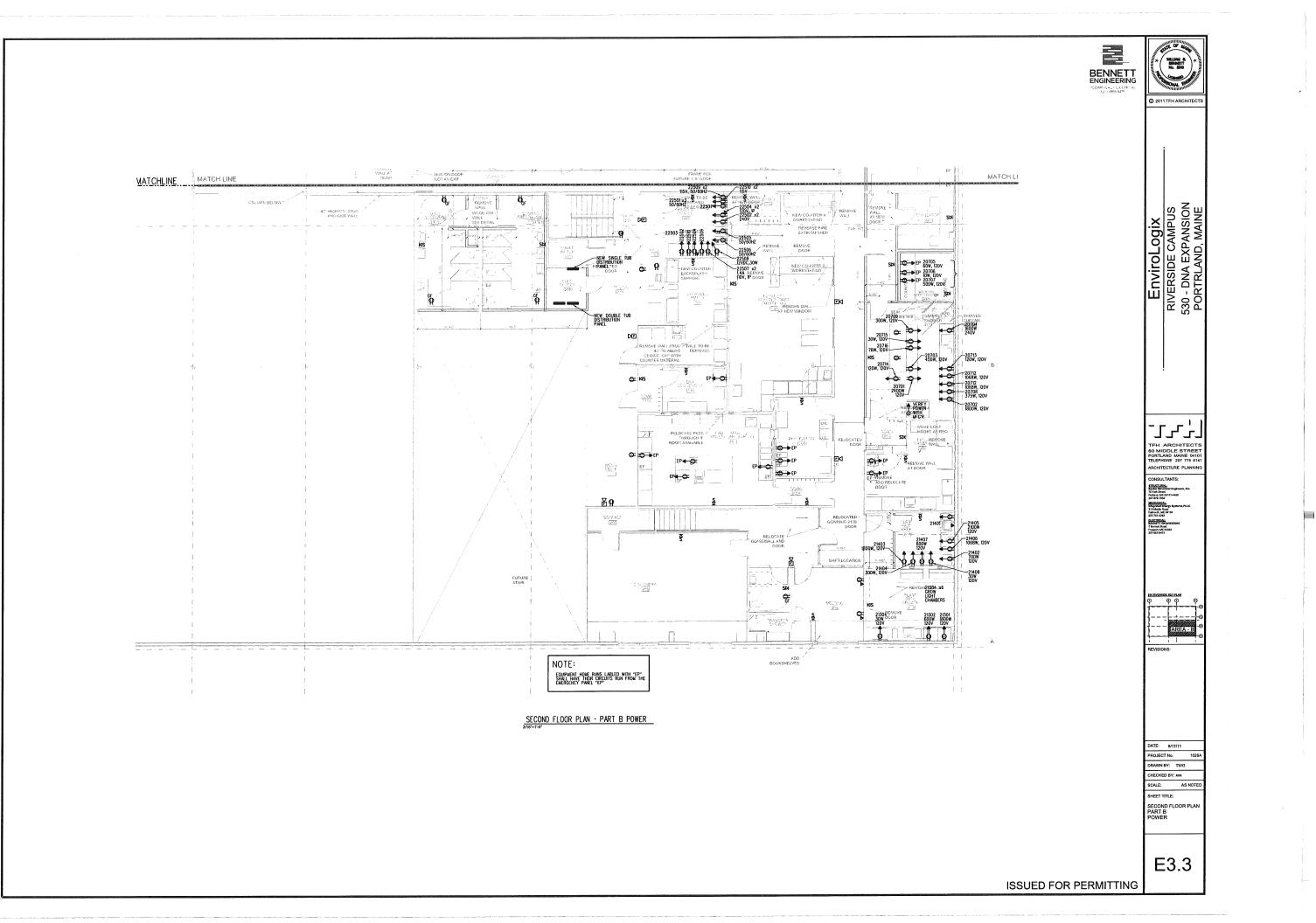




EnviroLogix RIVERSIDE CAMPUS 530 - DNA EXPANSION PORTRLAND, MAINE TFH ARCHITECTS 80 MIDDLE STREET PORTLAND MAINE 04101 TELEPHONE 207 775 6141 ARCHITECTURE PLANNING CONSULTANTS: Exate bounder Engineere, to York End Michael Bounder Engineere, to York End Michael Engineere, to Michael Engineere, to Note that Constant State Michael Engineere State Stat everence reiz reas φ φ AREA - A EVISIONS: DATE: 8/17/11 PROJECT No. 1026 DRAWN BY: TWG CHECKED BY: XXX SCALE: AS NOTE

SHEET TITLE: SECOND FLOOR PLAN PART A POWER

E3.2



City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No:	Date Applied:		CBL:			
2011-12-2831-ALTCOMM	11/29/2011		370A- A-012-001			
Location of Construction: 524 RIVERSIDE IND PKWY (530)	Owner Name: 500 RIVERSIDE ASSOC	TATES	Owner Address: PO BOX 382 CUMBERLAND CT	R, ME 4021		Phone 207-797-0300
Business Name:	Contractor Name: Warren Constructio	n Group	Contractor Addre POB 362, South	ss: Freeport, ME 04078		Phone: 207-865-3522
Lessee/Buyer's Name:	Phone:		Permit Type: BLDG - Building			Zone:
Past Use: Manufacturing and Research & Development - EnviroLogix	Proposed Use: Same – EnviroLogix - amendment to permit 2338 – to complete th	#2011-09-	Cost of Work: 1000.00 00000 Fire Dept:	Approved W(C)	andituris	CEO District Inspection: Use Group:
Proposed Project Description amendment 2011-09-2338 - exterio			Signature: ByOu Pedestrian Activit	Denied N/A		Type: N/A EXTERIOR PO.35 Signature (2/7/11
Permit Taken By:			<u></u>	Zoning Approval		
 This permit application d Applicant(s) from meetin Federal Rules. Building Permits do not i septic or electrial work. Building permits are void within six (6) months of t False informatin may inv permit and stop all work. 	g applicable State and nclude plumbing, I if work is not started the date of issuance. alidate a building	Shorelan Wetland Flood Zo Subdivis Site Plar كو Maj	s	Zoning Appeal Variance Miscellaneous Conditional Use Interpretation Approved Denied Date:	Not in Di Does not Requires Approve	

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT ADDRESS DATE PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE

DATE

BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 or 874-8693 (ONLY) or email: buildinginspections@portlandmaine.gov

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.

Footings/Rebar/Setbacks prior to pouring concrete

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Director of Planning and Urban Development Penny St. Louis

Job ID: 2011-12-2831-ALTCOMM

Located At: <u>524 RIVERSIDE IND</u> CBL: <u>370A- A-012-001</u> <u>PKWY</u>

Conditions of Approval:

Zoning

- 1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
- 2. Permit 2011-09-2338 was issued for interior work only because an Administrative Authorization Application was not applied for to do the proposed exterior work. The Administrative Authorization Application was approved 11/8/11. This permit is to do the exterior work that was shown on the original permit.

Fire

- 1. All construction shall comply with City Code Chapter 10.
- 2. Any cutting and welding done will require a Hot Work Permit from Fire Department.

Building

- 1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.
- 2. Equipment shall be installed in compliance with the manufacturer's specifications and the UL listing.
- 3. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.

L M

RGAN

General Building Permit Application

66

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

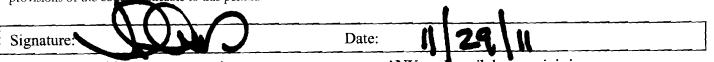
インイ

Total Square Footage of Proposed Structure/A Interior Addition of ±9880 GSF	\rea	Square Footage of Lot ± 7.07 Acres			
Tax Assessor's Chart, Block & Lot Chart# Block# Lot# 370A - A -12	Name Address	nust be owner, Lessee or Bruce S. Ferguson, Pre 500 Riverside Ind. Pl Zip Portland, ME 0410	sident kwy.	Telephone: 207-797-0300	
Lessee/DBA (If Applicable) EnviroLogix 500 Riverside Industrial Parkway Portland, ME 04103-1486	Owner (if dif Name Address City, State &	ferent from Applicant) Zip	w c	ost Of ork: \$ 0 of O Fee: \$ NA otal Fee: \$ 30.00	
If vacant, what was the previous use? Proposed Specific use: Business	echanical equip	pansion includes new second	cond floor	Dilding. Not	D K D33 (DXLenv part of
Contractor's name: Warren Construction Gro Address: POB 362	oup, LLC	NOV 2 9	9 2011	- reedu	permi dsiker
City, State & Zip South Freeport, ME 04078 Who should we contact when the permit is rea	dy: Peter Warn	Dept. of Buildir en City of Port	ng Inspectand	hone: 207-865-352 21 1015 R B ne: 207-865-352	2 ap 2

do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at <u>www.portlandmaine.gov</u>, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.



This is not a permit; you may not commence ANY work until the permit is issue

2011 09 2336			# 2211-575
Administr		horization Appl	
Planning and U		and, Maine nent Department, Planniı	na Division
ORTLAND		• • •	
Environter DIA	I and I		
PROJECT NAME: ENVIROLOGIX DNA (534) PROJECT ADDRESS: 530 RIVERSIDE INT		FRICE CXDAN	512N
PROJECT ADDRESS: 530 Kiversine Int	D. Pknyc	HART/BLOCK/LOT:	FOAT2
APPLICATION FEE: (\$50.00)	1		376A-A-12
PROJECT DESCRIPTION: (Please Attach Sketch/Pla	an of the Prope	osal/Development)	
INTERICE RENOLATION & EXPAN	JION, EX.	TBRICK ENTRANE &	UTILITIES
	·		
OWNER/APPLICANT	CONSULTAN	IT/AGENT	
Name: ENVICOLOGIA - PERER JOHNS	Name: T	FH ADCHITECTS - D	ALEMERON
Address: 500 Riverside Ino Pkny.		D Middle ST	
POCILAND ME OTIOS	_	OFTLAMD, ME OGI	<u>el</u>
Work #: 207.797.0300	Work #:	207.775.6141	
Cell #: 478.239. 1621	Cell #:		
Fax #: 207.797.7533	Fax #:	207 773 0194	
Home #:	Home #:		
E-mail: <u>Persh. Johnsone painten fi</u> r PARTNERS. CO		AMC + CHARLEN IT	sets.com
<u>Criteria for an Adminstrative Authorizations</u> :	> <i>m</i> 1	Applicant's Assessme	nt Planning Division
(see section 14-523(4) on pg .2 of this appl.)		Y(yes), N(no), N/A	Y(yes), N(no), N/A
a) Is the proposal within existing structures? \checkmark	is except	UTILITY PLOS	yes -tanks
b) Are there any new buildings, additions, or demolitio		<u>N</u>	Outside tinks
c) Is the footprint increase less than 500 sq. ft.?		<u> </u>	
d) Are there any new curb cuts, driveways or parking a	areas?	<u>N</u>	N
e) Are the curbs and sidewalks in sound condition?			$\overline{\mathbf{V}}$
f) Do the curbs and sidewalks comply with ADA?		<u> </u>	
g) Is there any additional parking?		<u> </u>	<u>N</u>
h) Is there an increase in traffic?		_N	<u>N</u>
i) Are there any known stormwater problems?		N	<u>nv</u>
j) Does sufficient property screening exist?		<u> </u>	<u> </u>
k) Are there adequate utilities?		Y	<u> </u>
I) Are there any zoning violations?		<u> N </u>	_ <u>N</u>
m) Is an emergency generator located to minimize noi		¥	
n) Are there any noise, vibration, glare, fumes or other	r impacts?	<u>_N</u>	_ <u>N</u>
Signatore of Applicant: TFH Acce	Date:	10/28/11	

,

Planning Division Use Only Authorization Granted X

Partial Exemption _____ Exemption Denied _____

Standard Condition of Approval: The applicant shall obtain all required City Permits, including building permits from the Inspection Division (Room 315, City Hall (874-8703)) prior to the start of any construction.

With stunderd condition

IMPORTANT NOTICE TO APPLICANT: The granting of an Administrative Authorization to exempt a development from site plan review <u>does not exempt</u> this proposal fro other approvals or permits, nor is it an authorization for construction. You should first check with the Building Inspections Office, Room 315, City Hall (207)874-8703, to determine what other City permits, such as a building permit, will be required.

PROVISION OF PORTLAND CITY CODE 14-523 (SITE PLAN ORDINANCE) RE: Administrative Authorization

Sec. 14-523 (b). Applicability

No person shall undertake any development identified in Section 14-523 without obtaining a site plan improvement permit under this article. (c) Administrative Authorization. Administrative Authorization means the Planning Authority may grant administrative authorization to exempt a development proposal from complete or partial site plan review that meets the standards below, as demonstrated by the applicant.

- 1. The proposed development will be located within existing structures, and there will be no new buildings, demolitions, or building additions other than those permitted by subsection b of this section;
- 2. Any building addition shall have a new building footprint expansion of less than five hundred (500) square feet;
- The proposed site plan does not add any new curb cuts, driveways, or parking areas; the existing site has no more than one (1) curb cut and will not disrupt the circulation flows and parking on-site; and there will be no drive-through services provided;
- 4. The curbs and sidewalks adjacent to the lot are complete and in sound condition, as determined by the public works authority, with granite curb with at least four (4) inch reveal, and sidewalks are in good repair with uniform material and level surface and meet accessibility requirements of the Americans with Disabilities Act;
- 5. The use does not require additional or reduce existing parking, either on or off the site, and the project does not significantly increase traffic generation;
- 6. There are no known stormwater impacts from the proposed use or any existing deficient conditions of stormwater management on the site;
- 7. There are no evident deficiencies in existing screening from adjoining properties; and
- 8. Existing utility connections are adequate to serve the proposed development and there will be no disturbance to or improvements within the public right-of-way.
- 9. There are no current zoning violations;
- 10. Any emergency generators are to be located to minimize noise impacts to adjoining properties and documentation that routine testing of the generators occur on weekdays between the hours of 9 a.m. to 5 p.m. Documentation pertaining to the noise impacts of the emergency generator shall be submitted; and
- 11. There is no anticipated noise, vibration, glare, fumes or other foreseeable impacts associated with the project.
- a. Filing the Application. An applicant seeking an administrative authorization under this subsection shall submit an administrative authorization application for review, detailing the site plan with dimensions of proposed improvements and distances from all property lines, and stating that the proposal meets all of the provisions in standards 1-11 of Section 14-423 (b)1. The application must be accompanied by an application fee of \$50.
- b. Review. Upon receipt of such a complete application, the Planning Authority will process it and render a written decision of approval, approval with conditions or denial, with all associated findings.
- c. Decision. If a full administrative authorization is granted, the application shall be approved without further review under this article, and no performance guarantee shall be required. In the event that the Planning Authority determines that standards a and b of Section 14-523 (b) (1) and at least four (4) of the remaining standards have been met, the Planning Authority shall review the site plan according to all applicable review standards of Section 14-526 that are affected by the standards in this subsection that have not been met. If an exemption or partial exemption from site plan review is not granted, the applicant must submit a site plan application that will undergo a full review by the Planning Board or Planning Authority according to the standards of Section 14-526.

<u>Criteria for an Adminstrative Authorizations:</u> (See Section 14-523 (4) on page 2 of this application)	Applicant's Assessment Y(yes), N(no), N/A	Planning Division Use Only
a) Is the proposal within existing structures?	Yes	Except for Utility pads for tanks, the rest is interior changes
b) Are there any new buildings, additions, or demolitions?	No	Outside tanks
c) Is the footprint increase less than 500 sq. ft.?	Yes	Yes
d) Are there any new curb cuts, driveways or parking areas?	No	No
e) Are the curbs and sidewalks in sound condition?	yes	okay
f) Do the curbs and sidewalks comply with ADA?	Yes	okay
g) Is there any additional parking?	по	No
h) Is there an increase in traffic?	no	No
i) Are there any known stormwater problems?	No	No
j) Does sufficient property screening exist?	yes	Yes
k) Are there adequate utilities?	Yes	Yes
1) Are there any zoning violations?	No	No
m)Is an emergency generator located to minimize noise?	Yes	Yes
n) Are there any noise, vibration, glare, fumes or other impacts?	No	No

. *

Captain Chris Pirone, confirmed on Tuesday, November 8th that the proposal was acceptable for the administrative authorization. The Fire Department will conduct a separate review of the proposed tanks under a building permit application.

The Administrative Authorization for 524 Riverside Industrial Parkway was approved by Barbara Barhydt, Development Review Services Manager on November 8, 2011 with the following Standard Condition of Approval listed below:

1. <u>Standard Condition of Approval</u>: The applicant shall obtain all required City Permits, including building permits from the Inspection Division (874-8703) and any other permits required from the Department of Public Services (874-8801) prior to the start of any construction.



Certificate of Design Application

From Designer:	T. Scott Teas			 <u> </u>
Date:	11/28/2011			
Job Name:	EnviroLogix	DNA	Expansion	
Address of Construction:	530 Riverside Industr	rial Parkway, Po	ortland, ME 04103	 ·

2003 International Building Code

Construction project was designed to the building code criteria listed below:

ח יו וי ס ו				
Building Cod	e & Year <u>2009 IBC</u> Use Group Classification	on (s) <u>B - Business</u>		
Type of Cons	truction <u>3B</u>			
Will the Struct	ure have a Fire suppression system in Accordance with	h Section 903.3.1 of the	2003 IRC <u>Yes</u>	
Is the Structure	e mixed use? <u>No</u> If yes, separated or non se	eparated or non separate	ed (section 302.3)	
Supervisory ala	rm System? <u>Yes</u> Geotechnical/Soils repo	ort required? (See Section	n 1802.2) <u>No</u>	
Structural Design Calculations		0.57	Live load reduction	
NA	Submitted for all structural members (106.1 – 106.11)	NA	Roof <i>live</i> loads (1603.1.2, 1607.11)	
		45 psf	Roof snow loads (1603.7.3, 1608)	
	s on Construction Documents (1603) buted floor live loads (7603.11, 1807)	60 psf	Ground snow load, Pg (1608.2)	
Floor Area		45 psf	If $Pg > 10$ psf, flat-roof snow load p	
Office	50 psf		If $Pg > 10$ psf, snow exposure factor, c_2	
Corridor	80 psf	1.0	If $P_g > 10$ psf, snow load importance factor, k	
Stair	100 psf		Roof thermal factor, $_{Q}(1608.4)$	
		45 psf	Sloped roof snowload, p(1608.4)	
Wind loads (1603.1.4, 1609) N/A Interior addition		В	Seismic design category (1616.3)	
Design option utilized (1609.1.1, 1609.6)		Steel Frame	Basic seismic force resisting system (1617.6.2)	
Basic wind speed (1809.3)		3	Response modification coefficient, _{R1} and	
Building category and wind importance Factor, h, table 1604.5, 1609.5)			deflection amplification factor _{Cl} (1617.6.2)	
Wind exposure category (1609.4)		ELF	Analysis procedure (1616.6, 1617.5)	
Internal pressure coefficient (ASCE 7)		100 K	Design base shear (1617.4, 16175.5.1)	
Component and cladding pressures (1609.1.1, 1609.6.2.2)			Flood loads (1803.1.6, 1612)	
Main force wind pressures (7603.1.1, 1609.6.2.1)			Flood Hazard area (1612.3)	
Earth design data (1603.1.5, 1614-1623)		NA	Elevation of structure	
ELF Design option utilized (1614.1)		·	Other loads	
<u>B</u>	Seismic use group ("Category")	2000 #	Concentrated loads (1607.4)	
0.325 / 0.123	Spectral response coefficients, SDs & SD1 (1615.1)	15 psf		
D	Site class (1615.1.5)	10 bai	Partition loads (1607.5)	

Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404



Certificate of Design

Date:	8/17/11
From:	T. Scott Teas
These plans a	and / or specifications covering construction work on:

Parkway, Portland, ME 04103

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2009 International Building Code* and local amendments.

	Signature	
(SEAL) SCOTT STEAS	Title:	Principal
(SEAL) SCOTT	Firm:	TFH Architects
Pro. Dore	Address:	80 Middle Street
PTE OF MAINE		Portland, ME 04101
	Phone:	207-775-6141

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Accessibility Building Code Certificate

Designer:	T. Scott Teas
Address of Project:	530 Riverside Industrial Parkway, Portland, ME 04103
Nature of Project:	Exterior work for the previously approved project to include, a transformer & concrete pad, generator & pad, cooling tower & pad, 1 new entry door, 1 mechanical door, & new windows to the envelope of the building.

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



	day.
Signature:	
Title:	Principal
Firm:	TFH Architects
Address:	80 Middle Street
	Portland, ME 04101
Phone:	207-775-6141

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

10-17-12 Dava Final OK

DISPLAY THIS CARD ON PRINC	IPAL FRONTAGE OF WORK
CITY OF I	PORTLAND
BUILDIN	GPERMIT
This is to certify that <u>500 Riverside Associates</u>	Located At <u>524 RIVERSIDE IND PKWY</u>
Job ID: <u>2011-12-2853-HVAC</u>	СВL: <u>370д-д-012-001</u>
	ccepting this permit shall comply with all of the provisions of Portland regulating the construction, maintenance and use of in the department.
Notification of inspection and written permission procured before this building or part thereof is lathed or otherwis closed-in. 48 HOUR NOTICE IS REQUIRED.	
Fire Prevention Officer THIS CA RD MUST BE POSTED ON	Code Enforcement Officer / Plan Reviewer



Certificate of Occupancy



CITY OF PORTLAND, MAINE

Department of Planning and Urban Development Building Inspections Division

Location: 524 RIVERSIDE IND PKWY

Issued to: 500 RIVERSIDE ASSOCIATES

Date Issued: 6/29/2012

CBL: 370A- A-012-001

under Building Permit No. 2011-09-2338-ALTCOMM, has had a final inspection, has been found to conform substantially to the ${
m This}$ is to certify that the building, premises, or part thereof, at the above location, built-altered-changed as to use

requirements of the Building Code and the Land Use Code of the City of Portland, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

PORTION OF BUILDING OR PREMISES

2nd FLOOR INTERIOR ADDITION

APPROVED OCCUPANCY

RESEARCH AND DEVELOPMENT MANUFACTURING AND USE GROUP B TYPE 3-B

Jon Rella June 29, 2012 Approved:

(Date)

Notice: This certificate identifies the legal use of the building or premises, and ought to be transferred from owner to owner upon the sale of the property.

BC 2009

Inspections Devision Director



CITY OF PORTLAND, MAINE Department of Building Inspections

Original Receipt

		<u>}</u>	<u></u>	6	20 / /	
Received from	1. 1 . 1		L	Nuñ g		
Location of Work	· 720	<u>Kan</u>	the second second second	<u>(</u>		
Cost of Constructior	ו) \$		_ Building	Fee:	}	<u>`</u>
Permit Fee	\$		Site	Fee:		
	Сө	rtificate of C	occupancy I	Fee:		
	and the second sec		То	otal:		
Building (IL)	lumbing (I5) _	Electri	ical (I2)	Site P	lan (U2)	
Other					c	
CBL:	A A D	12				
Check #:	1736	_ Tota	al Colle	cted s		<u>.</u>)

No work is to be started until permit issued. Please keep original receipt for your records.

Taken by: WHITE - Applicant's Copy YELLOW - Office Copy **PINK - Permit Copy**



Certificate of Design Application

From Designer:	T. Scott Teas			
Date:	8/17/11			
Job Name:	EnviroLogix	DNA	Expansion	s.g.
Address of Construction:	530 Riverside Industri	al Parkway, Po	rtland, ME 04103	

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year <u>2009 IBC</u> Use Group Classification (s) <u>E</u>	3 - Business
Type of Construction3B	
Will the Structure have a Fire suppression system in Accordance with Section	n 903.3.1 of the 2003 IRC <u>Yes</u>
Is the Structure mixed use? <u>No</u> If yes, separated or non separated	or non separated (section 302.3)
Supervisory alarm System? Yes Geotechnical/Soils report requi	red? (See Section 1802.2) No
Structural Design Calculations	0.57 Live load reduction

____NA_____Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807) Floor Area Use Loads Shown

Office	50 psf
Corridor	80 psf
Stair	100 psf

Wind loads (1603.1.4, 1609) N/A Interior addition

Desi	gn option utilized (1609.1.1, 1609.6)
Basic	: wind speed (1809.3)
	ling category and wind importance Factor, إر table 1604.5, 1609.5) exposure category (1609.4)
Interr	al pressure coefficient (ASCE 7)
Com	ponent and cladding pressures (1609.1.1, 1609.6.2.2)
Main	force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

ELF	_ Design option utilized (1614.1)
В	_ Seismic use group ("Category")
<u>0.325 / 0.123</u>	_ Spectral response coefficients, SDs & SD1 (1615.1)
D	_ Site class (1615.1.5)

0.57	Live load reduction
NA	_ Roof <i>live</i> loads (1603.1.2, 1607.11)
.45 psf	_ Roof snow loads (1603.7.3, 1608)
60 psf	_ Ground snow load, Pg (1608.2)
45 psf	_ If $Pg > 10$ psf, flat-roof snow load pf
1.0	If $Pg > 10$ psf, snow exposure factor, \hat{f}_{ℓ}
1.0	If $Pg > 10$ psf, snow load importance factor, I_{f}
. <u>1.1</u>	_ Roof thermal factor, $_{G}$ (1608.4)
45 psf	_ Sloped roof snowload, _{Ps} (1608.4)
В	_ Seismic design category (1616.3)
Steel Frame	Basic seismic force resisting system (1017.6.2)
.3	_ Response modification coefficient, _{R1} and
	deflection amplification factor _{Cl} (1617.6.2)
ELF	_ Analysis procedure (1616.6, 1617.5)
100 K	_ Design base shear (1617.4, 16175.5.1)
Flood loads (18	803.1.6, 1612)
NA	_ Flood Hazard area (1612.3)
NA	_ Elevation of structure
Other loads	
2000 #	Concentrated loads (1607.4)
15 psf	_ Partition loads (1607.5)
	_ Misc. loads (Table 1607.8, 1607.6.1, 1607.7,



Accessibility Building Code Certificate

Designer:	T. Scott Teas	
Address of Project:	530 Riverside Industrial Parkway, Portland, ME 04103	
Nature of Project:	Addition of \pm 9880 sf to the interior and renovations to approx. 2500 sf of the existing building. 1 new entry door, 1 mechanical door and new windows to the envelope of the building.	

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.

	Signature:			
NUMBER ARCH	Title:	Principal		
(SEAE) T	Firm:	TFH Architects		
EX: TEAS 43	Address:	80 Middle Street		
No. 802		Portland, ME 04101		
	Phone:	207-775-6141		

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

4

Certificate of Design

Date:	8/17/11		
From:	T. Scott Teas		
These plans and / c	or specifications covering construction work on:		

Interior addition and renovations to 530 Riverside Industrial Parkway, Portland, ME 04103

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2009 International Building Code* and local amendments.

		Signature	
	SED ARCHING	Title:	Principal
(SEAL)	T. SCOTT	Firm:	TFH Architects
MINIMUM INTERNAL STATE	SCOTT TEAS No. 802	Address:	80 Middle Street
THUS ST	NO. 802		Portland, ME 04101
		Phone:	207-775-6141

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov

For discussion with Portland Planning, Zoning, Site Review

June 2, 2011

rest Kits for Agriculturel

Participants for EnviroLogix:

TFH Architects: Scott Teas, David Merrill EnviroLogix Consultant: Peter Johnson, former VP Operations and CFO Ensign-Bickford Realty: Gus Jasminski

- A. Walk through Site Plan at Building Level, existing and through Phase 4
- B. Brief product, platform, customer overview
- C. Current headcount overview, summarized by building.
- D. Outline nature of occupancy in both buildings; use coded floor plan for 500
- E. Outline potential relocation of immuno development and production into 520, with integration and optimization with DNA development and production, shared storage, shipping & receiving, refrigerated storage.
- F. Review TFH initial parking and circulation layouts; seek Ptld general input on lot sufficiency for number of spaces.

Specific questions:

1996 - 4 people Now 106

1. In 3rd Quarter 2009, ELIX renovated and expanded approximately 2,500 s.f. of office space in the NE corner of 530 Riverside, converting it to approximately 4,800 s.f. of office space on the ground floor, and 5500 sf of lab, cubicle and conference space on a new second floor.

For the next phase of development (Fall $2011 - 1^{st}$ Qtr 2012) (the "B2 Expansion"), we propose to deck approximately 8,000 s.f. at the NW corner of 530, extending our current deck to the rear of the building and slightly to the south. This will create additional lab, cubicle, meeting room, rest room and utilities room space for the DNA Development Group.

This will mean a change in use of the space in 530 of 10,300 s.f. (8,000 + 4800 - 2500) within a three year period. Are we correct in assuming that this phase will not require a Level III Planning Review?

2. If our succeeding phase (Fall 2012 – 1^{st} Qtr 2013) were to consist solely of building out lab, production, shipping and receiving space on the 1^{st} floor of 520-530 Riverside ("C1 Expansion", approximately 26,000 s.f.), conversion from open floor plan woodworking manufacturing and assembly operations, would this constitute a Change of Use requiring a Level III Planning Review?

3. What are the elements of a Level III Planning Review?

4. Is a Level III Planning Review a Site Plan Review delegated to the City by ME DEP?

5. Does laboratory space qualify as manufacturing space for parking demand measurements, or is there a hybrid?

Marge Schmuckal - Fwd: Envirologix - 530 Riverside Industrial Parkway $z_{00} = z_{00} = (\lambda) z \partial_{\lambda}$

I-M From: Barbara Barhydt Jaegerman, Alex; Schmuckal, Marge To:Jaegerman, Alex; Schmuckal, MargeDate:5/31/2011 8:15 AM370 A - A - 12Subject:Fwd: Envirologix - 530 Riverside Industrial Parkway370 A - A - 12CC:Jaegerman, AlexH09 - 04969 - useAre you available Wednesday afternoon at 3 to meet? Thank you.Commerci M. WAvednouse $\frac{1}{2}0/622$ Barbara150, 0284To:

>>> "David Merrill" <dam@TFHArchitects.com> Friday, May 27, 2011 2:32 PM >>> Barbara-

Per our conversation, we would like to schedule a follow up meeting for this project with yourself and any other parties which may have comments on the Zoning and Planning requirements. Pete Johnson from Envirologix will be attending and will have some information to share regarding employee numbers, projections and descriptions of the various functions within the company. In the mean time we will be forwarding plans which better define the uses within the building for your review and discussion at our meeting.

If it is available we would like to meet later Wednesday afternoon, 3-5 or early Thursday afternoon, around 1 if possible.

If you have any questions in the mean time please let me know directly.

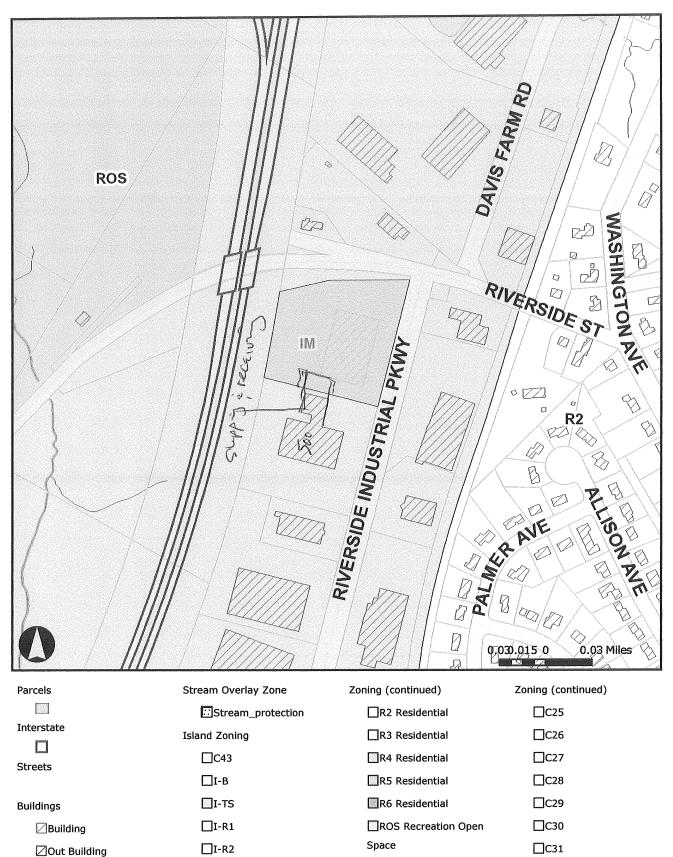
Thanks,

David Merrill LEED AP SENIOR ASSOCIATE

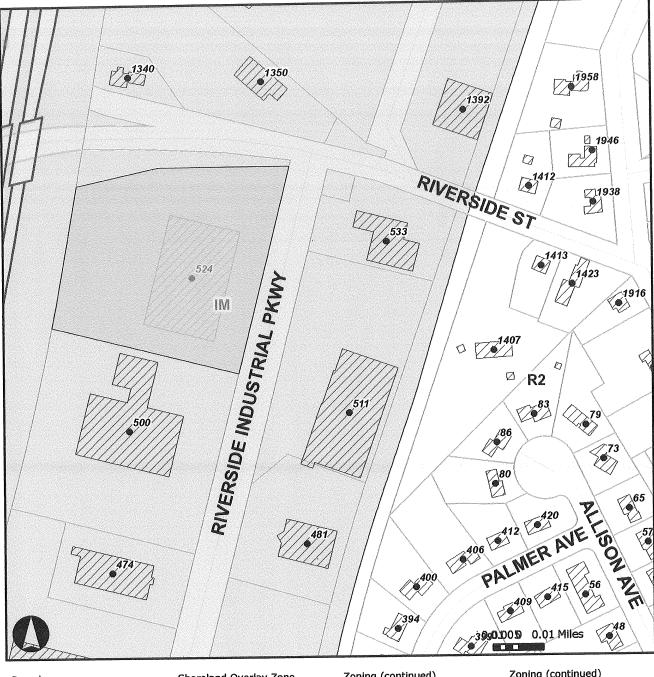
TFH ARCHITECTS 80 MIDDLE STREET PORTLAND ME 04101 207-775-6141 fax 207-773-0194 http://www.tfharchitects.com

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Parcels	Shoreland Overlay Zone	Zoning (continued)	Zoning (continued)
		OP Office Park	C23
Parcels	Stream Overlay Zone	R1 Residential	C24
	Stream_protection	R2 Residential	□C25
Interstate	Island Zoning	R3 Residential	C26
Streets	C43	R4 Residential	□C27
50000	I-B	R5 Residential	C28
Buildings	I-TS	R6 Residential	C29



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Penny St. Louis, Director of Planning and Development Marge Schmuckal, Zoning Administrator

Meeting Information

ZONE DATE ENVIROLOGIX YKWAS volustrial DAVID Menil CØ PEOPLE PRESEN Gus - rapidly Then business a fecting kits Development Ú Arch. Wood workers on 1st floor - may Not be aching of when 20,000 comment use level 2 site adulterent. - mder 20,000 > Not A typical TRAnstormer y propert - Discussio roperty AS Me 3 phase power discussion use veg. mets chapter 500 storm with mit sement Low im - 10' pavemant Setback reg. mperolous MAK. discussion ssed Side WALKS Disc. Please note: this meeting is not an pre-approval of any ordinances. No project can be approved without

<u>Please note</u>: this meeting is not an pre-approval of <u>any</u> ordinances. No project can be approved without going thru the appropriate reviews. This meeting is only to outline the City processes to go through based on the information given at this meeting. Any changes to that information may change the process requirements. Please check ordinances that are on-line for further information at <u>www.portlandmaine.gov</u>.

- 12. Installation of a sprinkler or fire alarm system requires a Knox Box to be installed per city ordinance.
- 13. Fire extinguishers are required per NFPA 10.
- 14. All means of egress to remain accessible at all times.
- 15. Emergency lights and exit signs are required. Emergency lights and exit signs are required to be labeled in relation to the panel and circuit and on the same circuit as the lighting for the area they serve.
- 16. Any cutting and welding done will require a Hot Work Permit from Fire Department.
- 17. Walls in structure are to be labeled according to fire resistance rating. IE; 1 hr. / 2 hr. / smoke proof.
- 18. A single source supplier should be used for all through penetrations.

Building

- 1. Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work. THIS PERMIT APPROVES INTERIOR WORK ONLY. A SEPARATE BUILDING PERMIT IS REQUIRED FOR THE EXTERIOR PADS AND AN ADMINISTRATIVE AUTHORIZATION APPROVAL FROM PLANNING.
- 2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2009 Section 713.
- 3. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.
- 4. The statement of special inspections shall be submitted for review prior to work on structural components
- 5. A ComCheck certificate of compliance shall be submitted for the MEP systems.
- 6. The Special Inspections Final Report shall be submitted to this office prior to the Certificate of Occupancy or final inspection.

6-29-12 DWM/BKL/capt Prione Ken Final CO OIC