VOCATIONAL TECHNOLOGY ADDITION

LOS MEDANOS COLLEGE

2700 EAST LELAND ROAD PITTSBURG, CALIFORNIA 94565

	CONTRA COSTA	COMMUNITY CC	DLLEGE DISTRIC		STRUCTURAL: S1.0 GENERAL STRUCTURAL NOTES TYPICAL DETAILS S2.0 FOUNDATION PLAN S2.1 ROOF FRAMING PLAN S3.0 STRUCTURAL DETAILS
ABBREVIATIONS	SYMBOLS	VICINITY MAP	PROJECT DATA	GENERAL NOTES	
A.B. ANCHOR BOLTS ACOUS. ACOUSTICAL ADM. ADMINISTRATIVE ALT. ALTERNATE ALUM. ALUMINUM APPROX. APPROXIMATE ARCH. ARCHITECTURAL BLDG. BUILDING BLK. BLOCK BLKG. BLOCKING BLN. BEAM B.N. BOUNDARY NAIL BOTTOM BRD. BOARD BIR. BETTER CAB. CABINET CAC CALIFORNIA ADMIN— ISTRATIVE CODE CAT. CATWALK CEM. PLAS. CEMENT PLASTER C.J. CONSTRUCTION JOINT CONC. COLUMN CONC. CONTRACTING OFFICER CONC. CONTRACTION CONTRACTOR CONTR. CONTRACTOR C.M.U. CONCRETE MASONRY UNIT CSPE CHLOROSULFONATED PLYWO. PLYWOOD PLYWOOD INSULATION INSULAT	A COLUMN GRID 4 DOOR SYMBOL 4 WINDOW SYMBOL 5 KYLIGHT SYMBOL	San Rafael Benicit Richmond Finder Son Poblo Richmond File Cerrito Richmond File Cerri	PROJECT 2700 EAST LELAND ROAD PITTSBURG, CA. OWNER'S CONTRA COSTA COMMUNITY COLLEGE DISTRICT 500 COURT ST. MARTINEZ, CA. 94553 SEISMIC: ZONE 4 CONSTRUCTION: TYPE I FIRE RESISTIVE OCCUPANCY: B, S-3 BUILDING CODES: CBC, PART 2, T-24 (1994 UBC AND 1995 CA. AMENDMENTS) CEC, PART 3, T-24 (1993) NEC AND CA. AMENDMENTS. CFC, PART 9, T-24 (1994 UFC AND CA. AMENDMENTS.) CMC, PART 4, T-24 (1994 UFC AND CA. AMENDMENTS.) CMC, PART 4, T-24 (1994 NMC AND CA. AMENDMENTS.) FLOOR AREA OF ADDITION 10,960 SF TOTAL 178, 626 S.F.	 NEW CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS. WILL EITHER BE UNPREFIXED OR PREFIXED BY "NEW OR (N)". EXISTING CONSTRUCTION, IF SPECIFICALLY NOTED IN THE ARCHITECTURAL DRAWINGS, WILL ALWAYS BE PREFIXED BY "EXIST" OR (E). THE INTENT OF CONTRACT DOCUMENTS IS TO COMPLETE THE PROJECT IN AN WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS AND BUILDING CODES RE HEREIN. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRAC WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE SAID CODES, A CREQUEST THE REQUIRED WORK SHALL BE SUBMITTED BY CONTRACTOR APPR TO PROCEEDING WITH THE WORK. DIMENSIONS ARE TO CENTERLINE OF STUD, FACE OF STUD OR FACE OF UNLESS OTHERWISE NOTED. RECONSTRUCT ALL EXISTING UTILITIES REMOVED OR DAMAGED BY DEMOLIOR RECONSTRUCTION TO CONFORM TO CODE AND FULFILL ORIGINAL PURPORT OF STUDIES. SHOWN SHALL BE CONSIDERED TYPICAL AND SHALL APPLY TO SCONDITIONS, UNLESS OTHERWISE NOTED. MOST STRINGENT REQUIREMENT GOVERNS SEE PROJECT MANUAL: SECTION 	MP4.0 ROOF PLAN — HVAC AND PLUMBING MP5.0 DETAILS MP5.1 DETAILS ELECTRICAL: E1 SYMBOL LIST, NOTES, FIXTURE SCHEDULE, ONE — LINE DIAGRAM CONCRETE E2 PANEL BOARD SCHEDULES E3 ELECTRICAL SITE PLAN E4 ELECTRICAL DEMOLITION PLAN E5 ELECTRICAL LIGHTING PLAN E6 ELECTRICAL POWER PLAN E7 ELECTRICAL ROOF PLAN E8 ELECTRICAL COMMUNICATION PLAN
POLYETHYLENE ("HYPALON") DBL. DOUBLE DET. DETAIL D.F. DOUGLAS FIR P.S.I. POUNDS PER SQUAR P.S.I. POUNDS PER SQUAR P.T. PRESSURE TREATED PT. POINT	SECTION SYMBOL SECTION NUMBER SHEET NUMBER	Sunnyvale Santa Clara	STORIES: 1		OCCUPANT LOAD
DIAG. DIAGONAL DIA. DIAMETER DIM. DIMENSION DN. DOWN DP. DEEP DR. DOOR D.S. DOWNSPOUT EA. EACH E.F. EACH FACE E.J. EXPANSION JOINT ELEV. ELEVATION ELEC. ELECTRICAL END. RAD. RADIUS RAD. RADIUS RAD. RADIUS RAD. REQUIRED RAD. REQUIRED RESIL. RESILIENT R.O. ROUGH OPENING R.S. ROUGH SAWN RDWD. REDWOOD RO. ROUGH R.W.L. RAIN WATER LEADER SHT. SHEET S.H. SINGLE HUNG	LOCATION MAP PITTSBURG PATTSBURG MATERIANDER ST 55 55 55 55 55 55 55 55 55 55 55 55 55	place concrete Vocational	is includes the construction of a new attached of Technology Addition at Los Medanos College, includes, but is not limited to, site work, chain lining wall, concrete wall, steel framing, metal roof	cast-in- NEW WORK INCLUDES THE CONSTRUCTION OF FREE-	ROOM IUMBER NEW ADDITION VOCATIONAL TECH. BLDG. AREA SQ. FT. OCCUPANT LOAD FACTOR NO. OF OCCUPANTS 1 AUTO SHOP 3,675 50 73.5 6 APPLIANCE LAB 1,352 50 27.04 7 STORAGE 35 300 .12 8 TOILET 50 50 1 9 ELECTRICAL 66.50 300 .22 12 STORAGE 1,745.5 300 5.8 13 STORAGE 1,472 300 4.9

DRAWING INDEX

T0.1	TITLE SHEET
T0.2	CAMPUS SITE PLAN
CIVIL:	
C0.1	SITE SURVEY
C1.1	SITE DEMOLITION
C1.2	GRADING AND DRAINAGE
C1.3	UTILITIES
C2.1	CIVIL DETAILS
LANDSCA	NPE:
L1.0	PLANTING PLAN
120	IRRIGATION PLAN

ARCHITECTURAL

ROOF DETAILS

The work of this contract is includes the construction of a new attached cast—in—
place concrete Vocational Technology Addition at Los Medanos College, Pittsburg, California. Work includes, but is not limited to, site work, chain link fence
and gates, concrete retaining wall, concrete wall, steel framing, metal roof deck with
huilt—up roofing metal doors and frames avocum wallboard and acquistical tile

métal roof deck with built—up roofing, metal doors and frames, gypsum wallboard and acoustical tile ceilings, wall and floor finishes, communication wiring, and miscellaneous specialties, plumbing, heating ventilating and air conditioning, mechanical gas piping system, electrical work and fire alarm system, installation of owner furnished and contractor furnished automotive repair equipment, and appliance lab equipment as indicated and specified.

The existing building is a cast—in—place concrete, Type I structure constructed in 1972. The existing building is non-sprinklered, and is not equipped with standpipes, except at the central three-story section.

PROJECT TEAM

ARCHITECT:

SINGLE HUNG SIMILAR

SLAB ON GRADE SPECIFICATION(S)

STAINLESS STEEL

STRUCTURAL

TELEPHONE TERRAZZO

T.O.S. TOP OF STEEL T.O.SF. TOP OF SUBFLOOR

T.O.W. TOP OF WALL

F.O.F.

GYP. BD.

GALLON

GALVANIZED

GALVANIZED SHEET STEEL

GALVANIZED SHEET METAL

HAZARDOUS MATERIALS

GENERAL SERVICES

ADMINISTRATION

ABATEMENT HORIZONTAL SYMMETRICAL

TOP AND BOTTOM
TONGUE AND GROOVE
TOP OF CURB

TOP OF PLATE LINE

TOP OF PAVEMENT

UNLESS OTHERWISE NOTED

TRANSVERSE

VERTICAL GRAIN

WATER CLOSET

WATERPROOF

WEATHERPROOF

TREATED

TYPICAL

WASHER

WITHOUT

SEE STRUCTURAL DRAWINGS STANDARD STEEL PIPE

CHESTER SE DEC MEN AN SE

INTERACTIVE RESOURCES, INC. 117 PARK PLACE POINT RICHMOND, CA 94801 TEL: 510/236-7435 FAX: 510/232-5325

STRUCTURAL:

INTERACTIVE RESOURCES, INC. 117 PARK PLACE POINT RICHMOND, CA 94801 TEL: 510/236-7435 FAX: 510/232-5325

INTERACTIVE RESOURCES, INC.

117 PARK PLACE POINT RICHMOND, CA 94801 TEL: 510/236-7435 FAX: 510/232-5325

MECHANICAL / PLUMBING:

375 FREMONT ST. #250 SAN FRANCISCO, CA. 94105 TEL: 415/284-0114 FAX: 415/284-0118

ELECTRICAL: WHM. INC. 1605 SCHOOL ST. MORAGA, CA. 94556 TEL: 925/376-2902 FAX: 925/376-2904

CONTED APPLIANCES AND

AUTO PARTS.

FACULTY OFFICE FACULTY OFFICE CONFERENCE CLASS ROOM STUDY AREA WELDING FACULTY OFFICE CONFERENCE ROOM FACULTY OFFICE CONFERENCE ROOM

STORAGE

STORAGE

STEAM CLEAN AREA

TOTAL NUMBER OF OCCUPANTS

VOCATIONAL TECH. BLDG.

SMALL ENGINE LAB.

3,348 1,200 1,232 2,028 OFFICE RADIO AND T.V. 14.66 MACHINE ROOM TESTING ROOM TOTAL NUMBER OF OCCUPANTS

AREA SQ. FT.

300

OCCUPANT

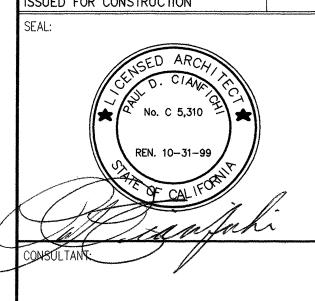
LOAD FACTOR

125

NO. OF

OCCUPANTS

SSUFD FOR PLAN CHECK SSUED FOR PERMIT ISSUED FOR CONSTRUCTION



ARCHITECTURE . PLANNING . ENGINEERING

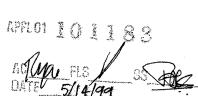
POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 (FAX) 232-5325 http://www.intres.com

VOCATIONAL TECHNOLOGY ADDITION

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IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

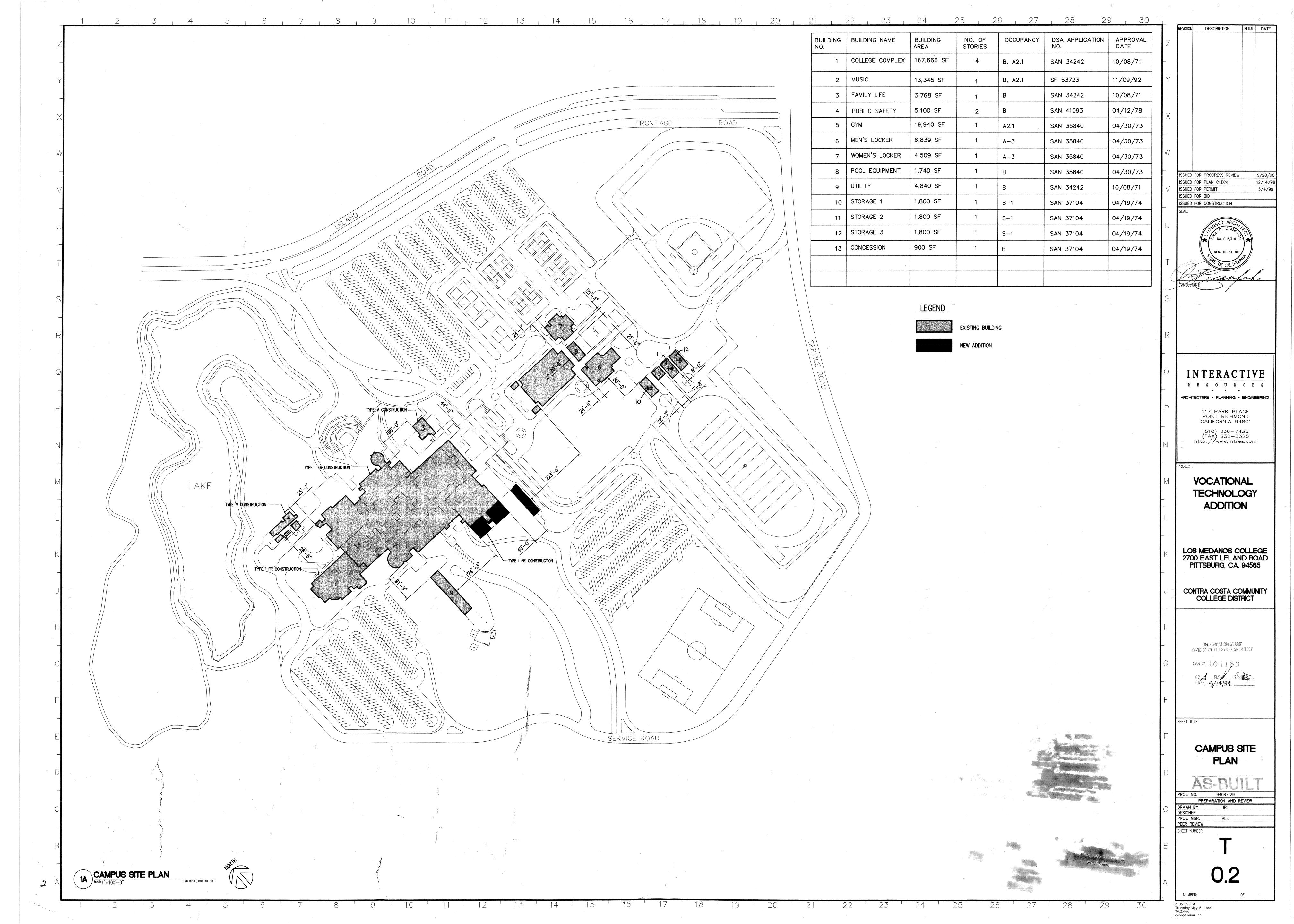


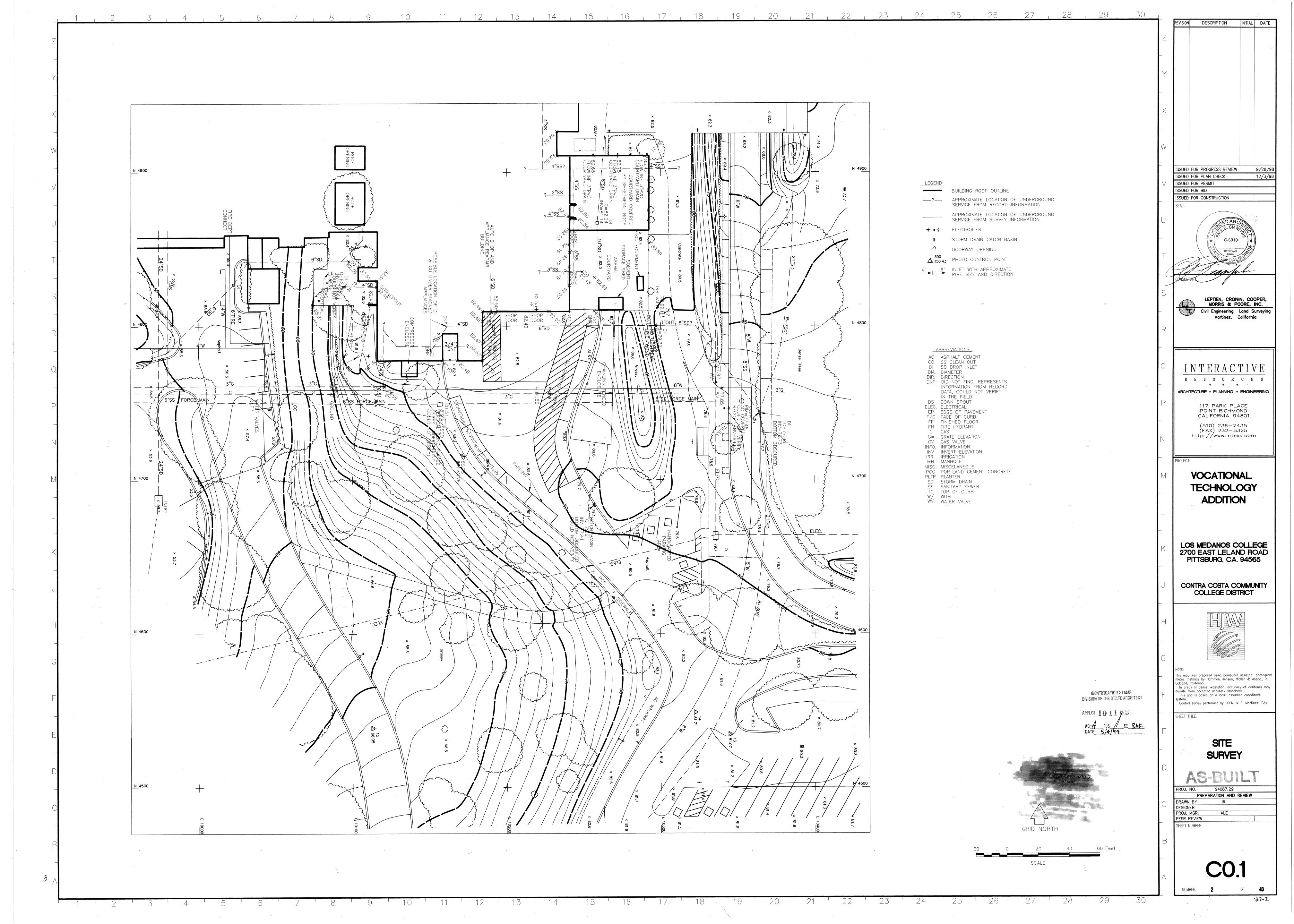
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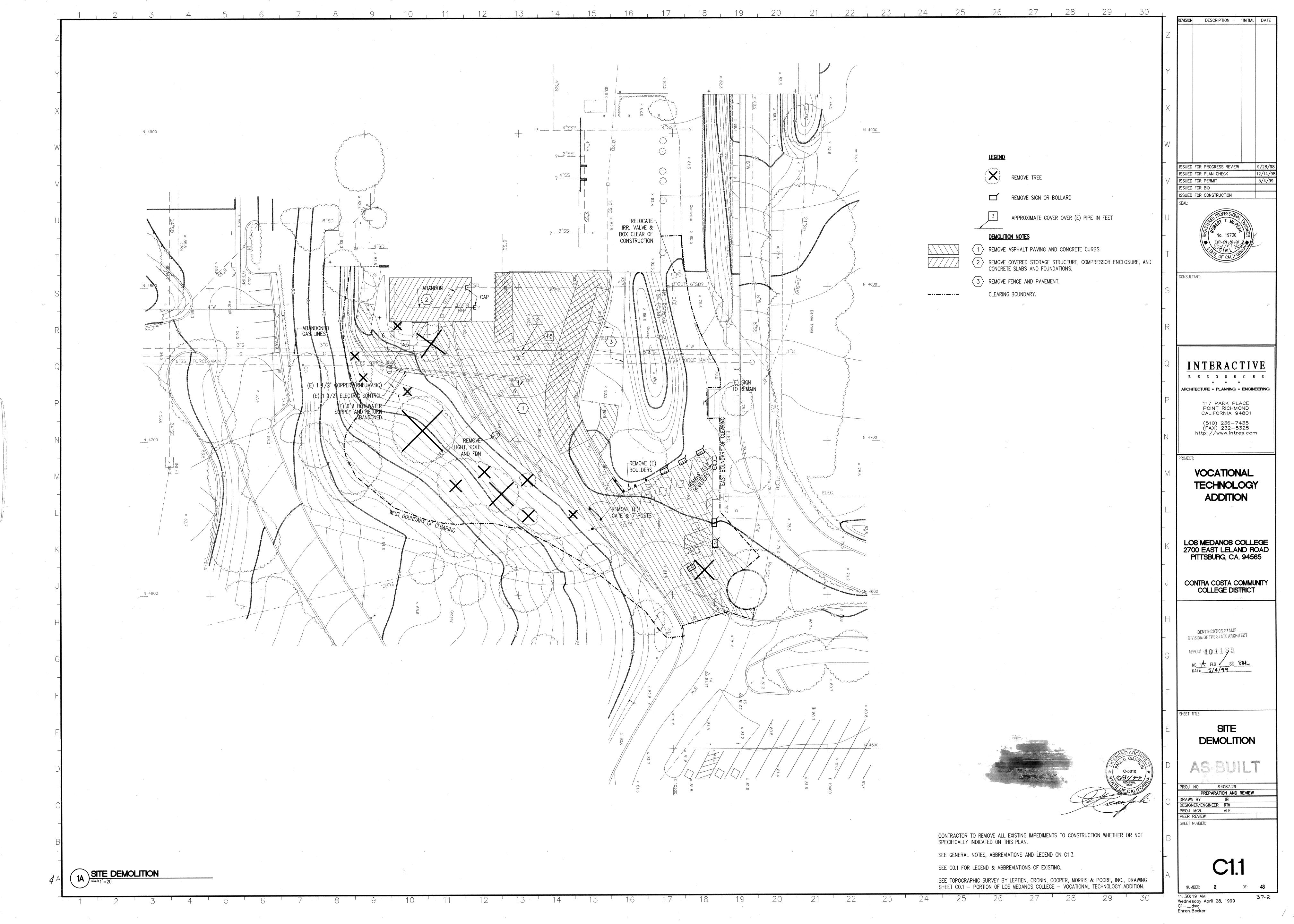
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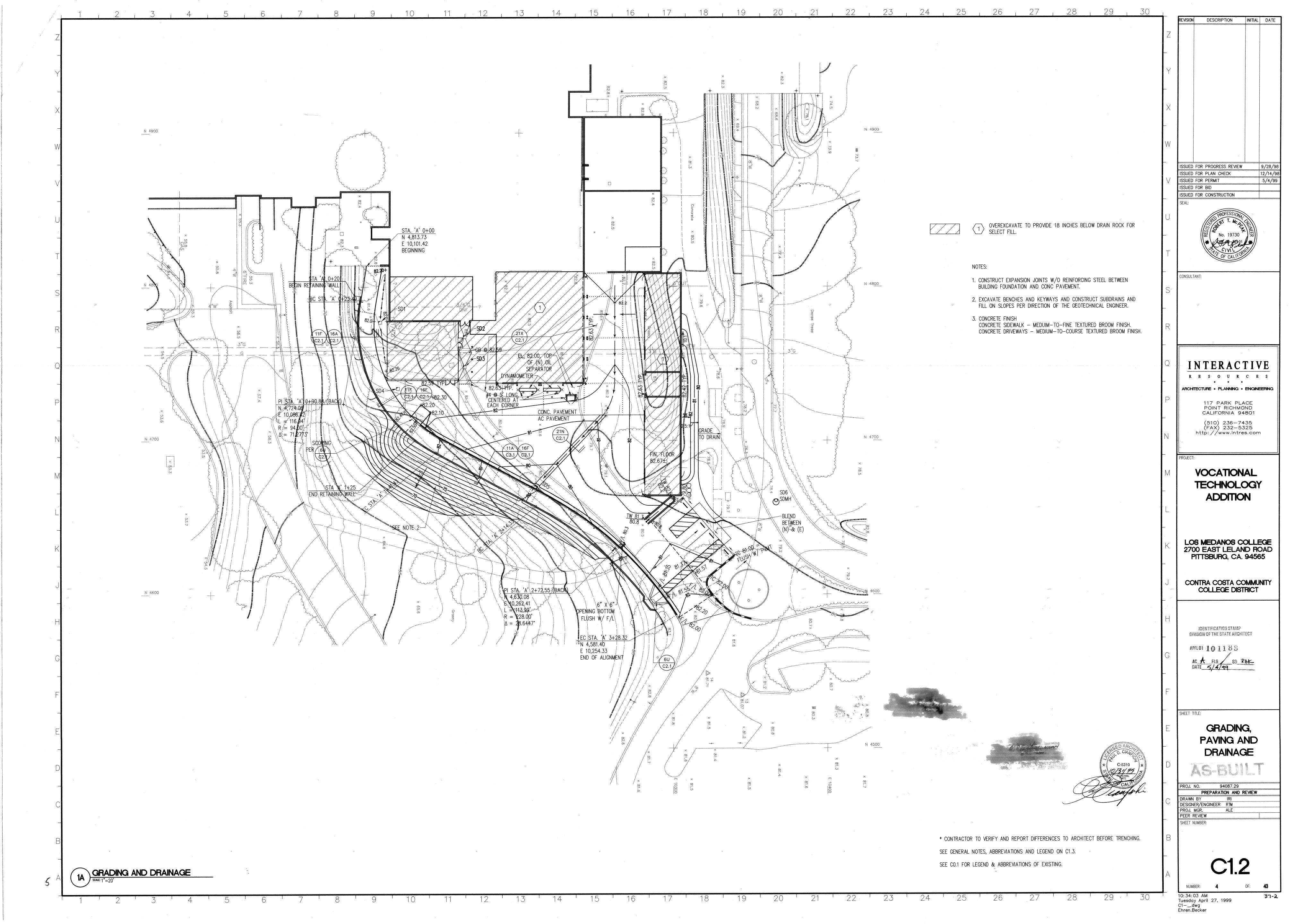
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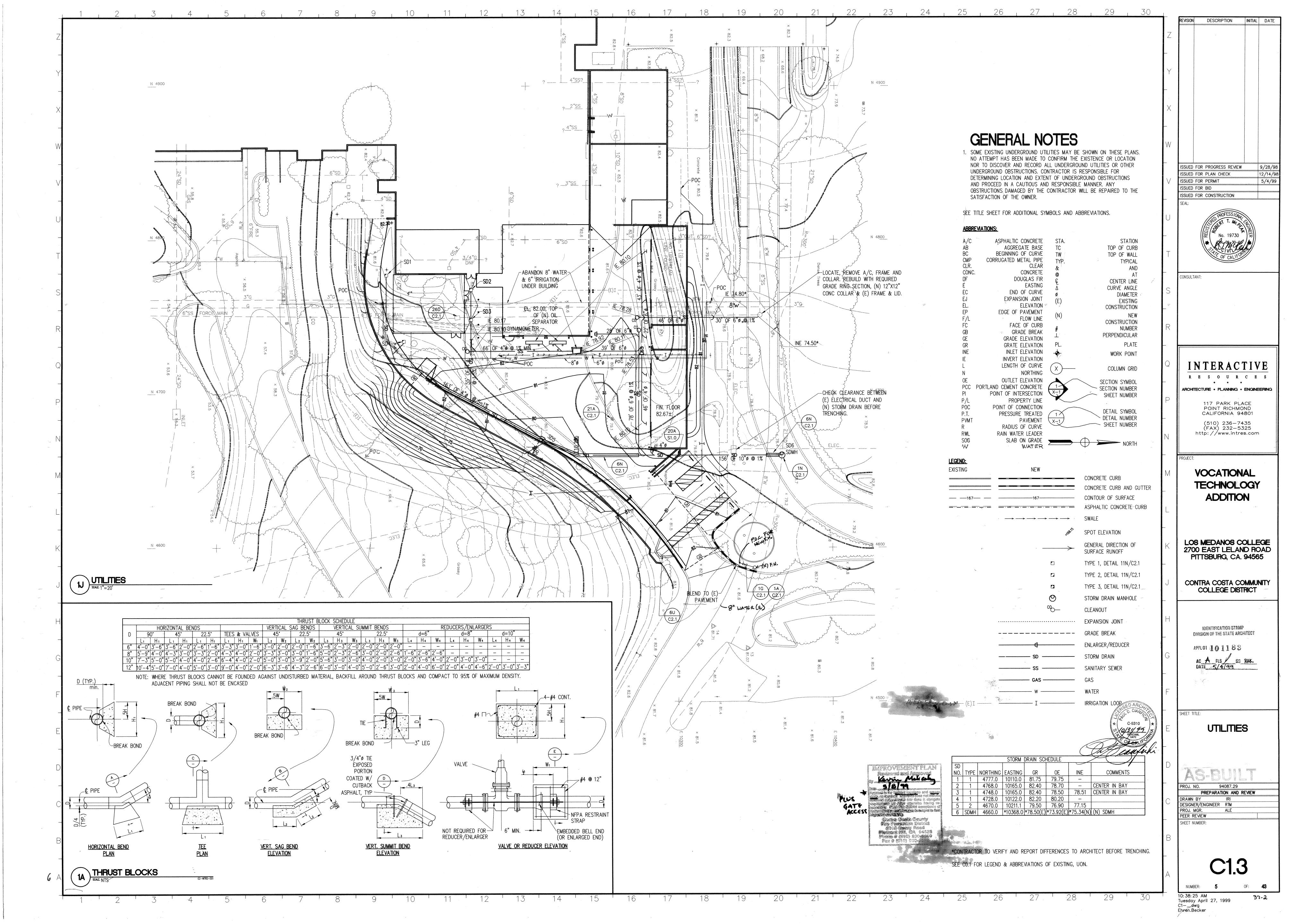
PEER REVIEW

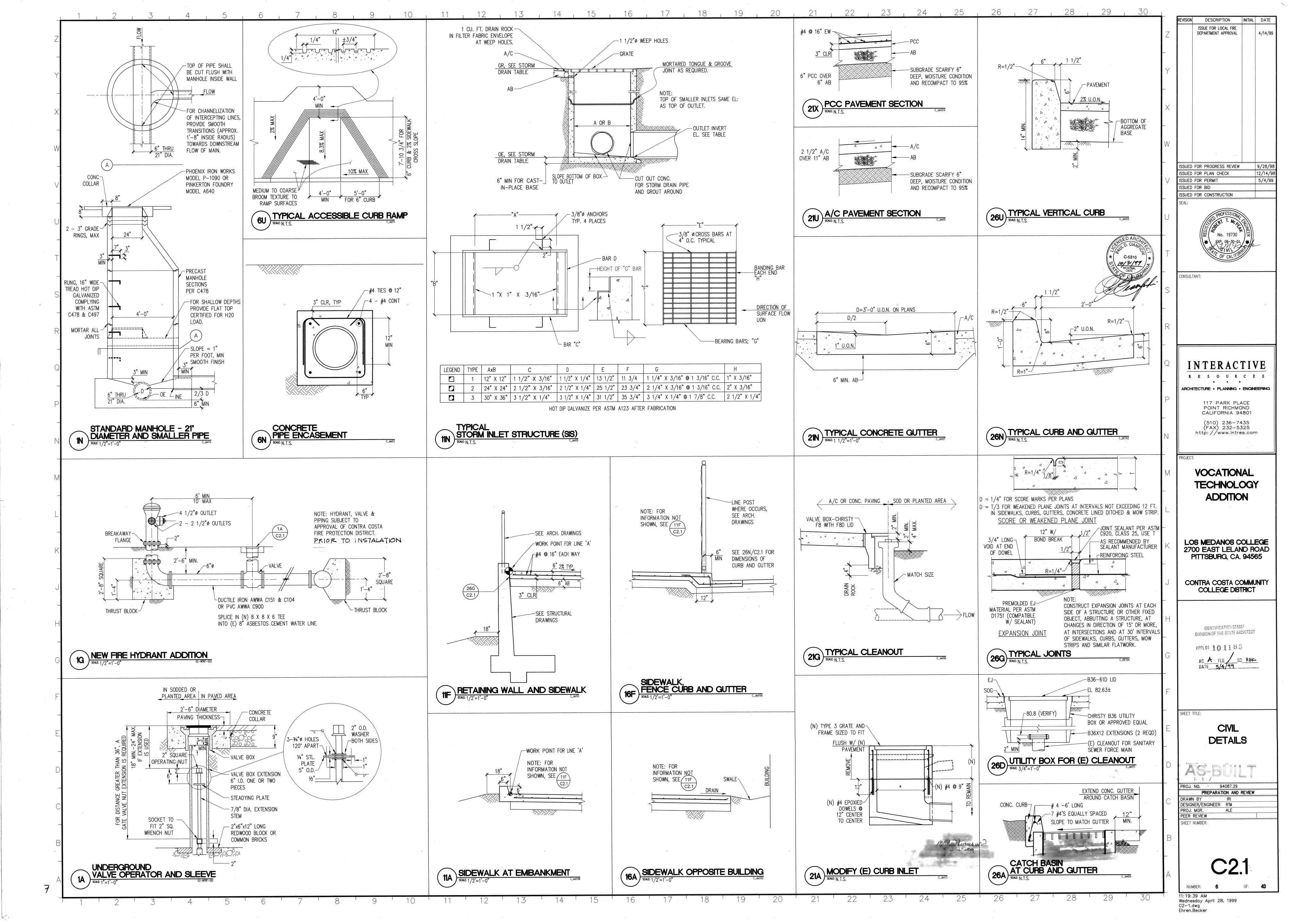


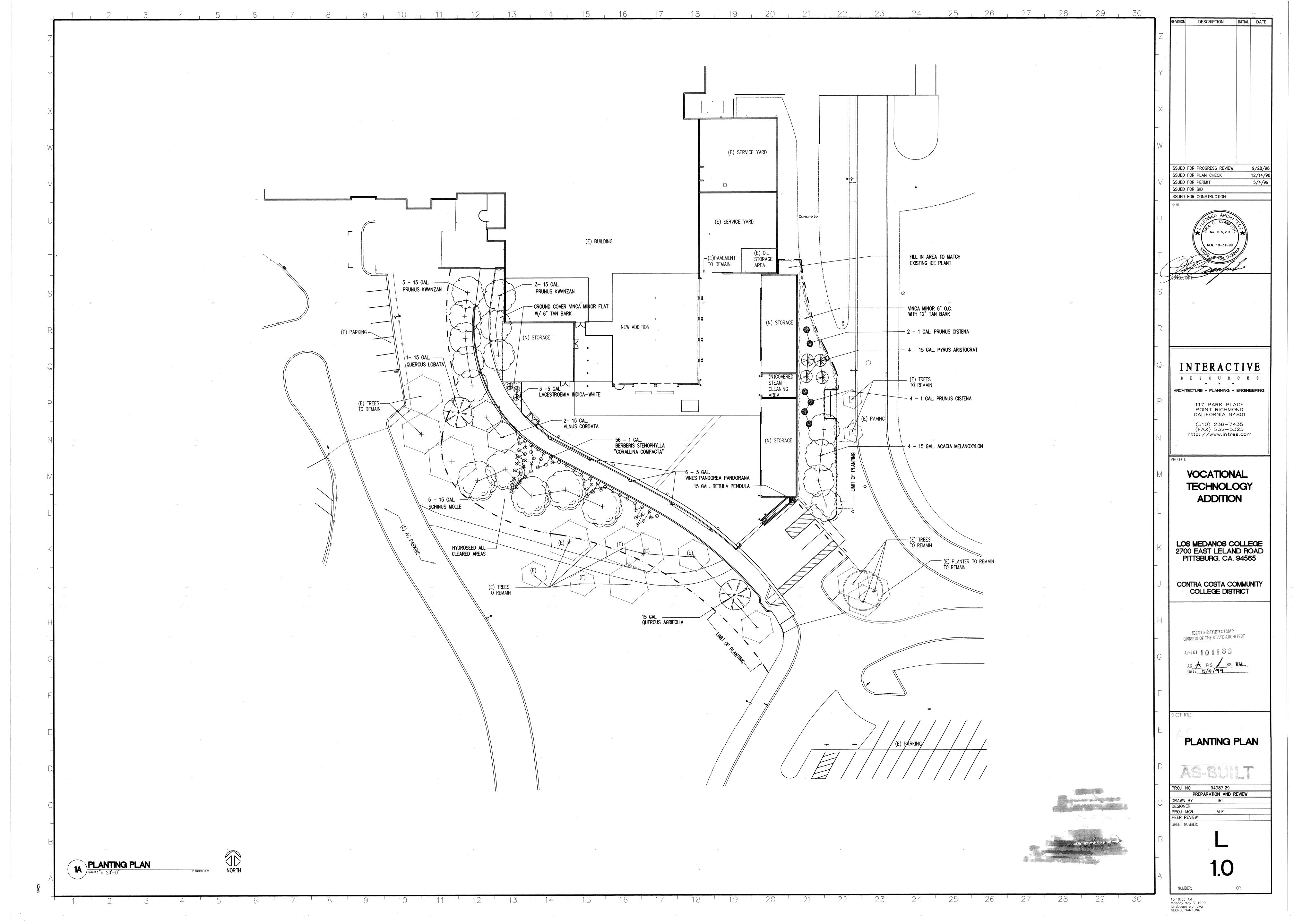


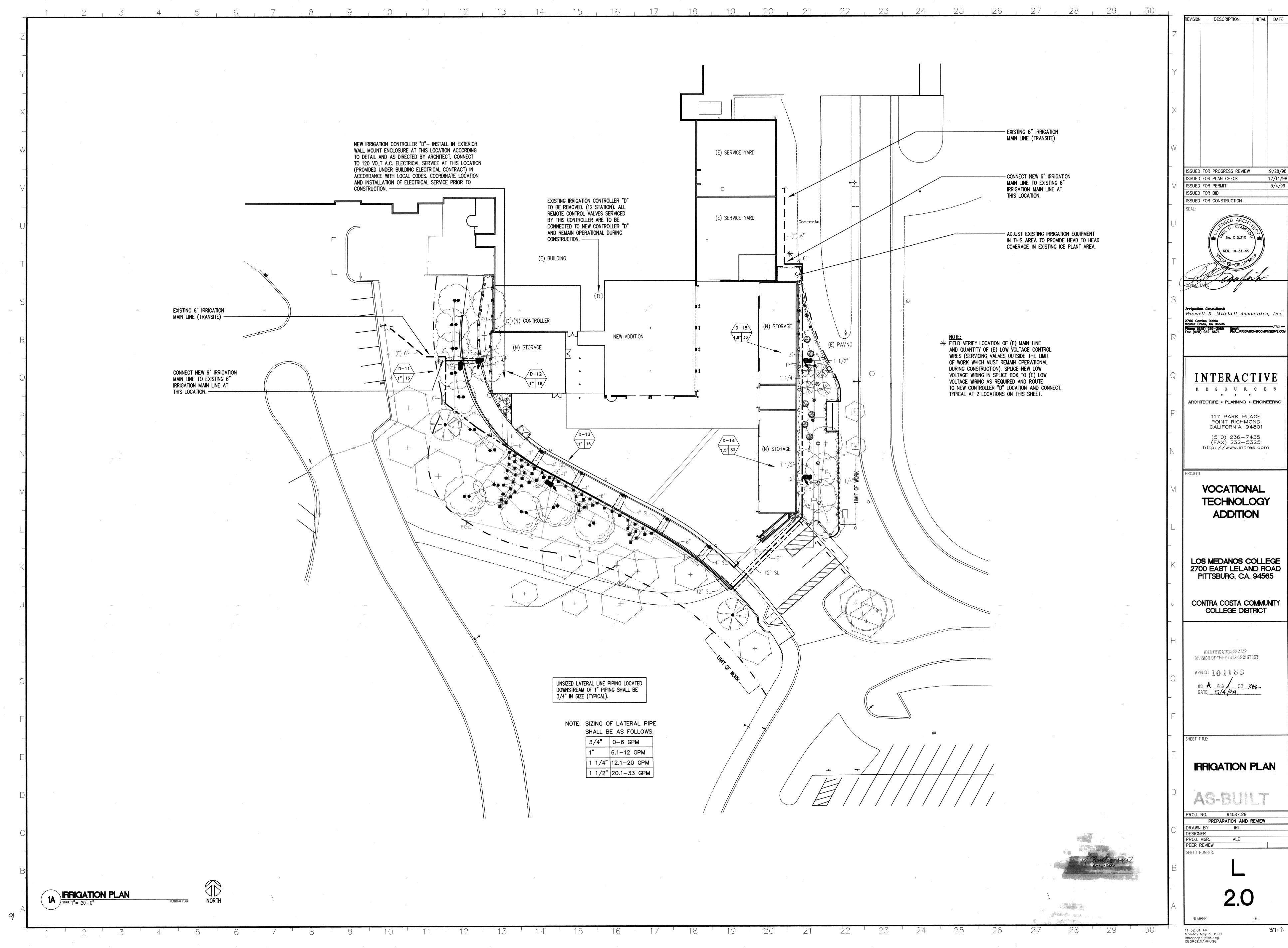












RRIGATION	LEGEND				
SYMBOL	NUMBER	DESCRIPTION	NOZZLE GPM	OPERATING PSI	OPERATING RADIUS (FEET)
∅ ∨ ▽	1812-SAM-PRS -15 F,H,Q	RAIN BIRD POP-UP SPRAY SPRINKLER (SHRUB)	3.7,1.9,1	30	12–15
⊕ ∨ ∀	1812-SAM-PRS -12 F,H,Q	RAIN BIRD POP-UP SPRAY SPRINKLER (SHRUB)	2.6,1.3,0.7	30	10-12
▼ ▼	1812-SAM-PRS -10 F,H,Q	RAIN BIRD POP-UP SPRAY SPRINKLER (SHRUB)	1.6,0.8,0.4	30	8–12
△ ♠	1812—SAM—PRS —8 H,Q	RAIN BIRD POP-UP SPRAY SPRINKLER (SHRUB)	0.8,0.4	30	6-8
•	1812-SAM-PRS -15 SST	RAIN BIRD POP-UP SPRAY SPRINKLER (SHRUB)	1.2	30	4 X 30
•	1812-SAM-PRS -15 EST	RAIN BIRD POP-UP SPRAY SPRINKLER (SHRUB)	0.6	30	4 X 15
•	1402 SERIES	RAIN BIRD BUBBLER (TREE)	0.5	20-90	TRICKLE
	1401 SERIES	RAIN BIRD BUBBLER (SHRUB)	0.25	20-90	TRICKLE
•	1 1/2"-116-0052	AMIAD FILTER W/100 N	MICRON SCR	EEN	
0	1"-112-0052	AMIAD FILTER W/100 M	MICRON SCR	EEN	
•	8024	WEATHER-MATIC REMOT	E CONTROL	VALVE	
•	33 DNP	RAIN BIRD QUICK COUF	PLING VALVE		
D	GD-15	GRISWOLD CONTROLLER	(WALL MOU	JNT)	
		CONTROLLER AND STAT	ION NUMBER	२	0 1
\		REMOTE CONTROL VALV	E SIZE (IN	INCHES)	
		PIPE WITH SOLVENT V 3" AND LA GASKETED CL.200 PV GASKETED CONCRETE	ND SMALLER IEDULE 40 I SCHEDULE WELD FITTING ARGER: 1120 PVC PLASTI /C ONE PIEC FITTINGS AN THRUST BL GES OF DIRI	PVC PLASTIC 40 PVC GS. 18" CO D-CL.200 IC PIPE WIT CE MOLDED ND LOCKING AT	VER.
		WITH S	CL.200 PVC CHEDULE 4 NT—WELD FIT	PLASTIC P 0 PVC	IPE
		AS INDICAT	ED IN SPEC	IFICATIONS	COVER TO BE OR AS H OF COVER.

IRRIGATION NOTES

- 1. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE POSSIBLE. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC. WHICH MAY BE REQUIRED. IN THE EVENT OF FIELD DISCREPANCY WITH CONTRACT DOCUMENTS, PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATIONS. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY AND COORDINATE FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURE, ETC. BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.
- 2. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT
- 3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE AND WIND EXPOSURES.
- 4. IT IS THE RESPONSIBILITY OF A LICENSED ELECTRICAL CONTRACTOR TO PROVIDE 120 VOLT A.C. (2.5 AMP DEMAND PER CONTROLLER) ELECTRICAL SERVICE TO THE IRRIGATION CONTROLLER LOCATION(S). IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO COORDINATE THE ELECTRICAL SERVICE INSTALLATION AND TO MAKE FINAL CONNECTION FROM ELECTRICAL SERVICE STUB-OUT TO CONTROLLER(S). PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH LOCAL CODES.
- 5. PROVIDE EACH IRRIGATION CONTROLLER WITH ITS OWN INDEPENDENT LOW VOLTAGE COMMON GROUND WIRE.
- 6. INSTALL NEW BATTERIES IN IRRIGATION CONTROLLER(S) TO RETAIN PROGRAM IN MEMORY DURING TEMPORARY POWER FAILURES. USE QUANTITY, TYPE, AND SIZE REQUIRED AS PER CONTROLLER MANUFACTURER'S INSTRUCTIONS.
- 7. SCHEDULE A MEETING WHICH INCLUDES REPRESENTATIVES OF THE IRRIGATION CONTROLLER MANUFACTURER, THE MAINTENANCE CONTRACTOR, THE OWNER AND THE IRRIGATION CONTRACTOR AT THE SITE FOR INSTRUCTION ON THE PROPER PROGRAMMING AND OPERATION OF THE IRRIGATION CONTROLLER.
- 8. IRRIGATION CONTROL WIRES: SOLID COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND. COMMON GROUND WIRE: SIZE #12-1 WIRE WITH A WHITE INSULATING JACKET. CONTROL WIRE SERVICING REMOTE CONTROL VALVES: SIZE #14-1 WIRE WITH INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICES SHALL BE MADE WITH 3M-DBY SEAL PACKS OR APPROVED EQUAL.
- 9. INSTALL A MINIMUM OF ONE SPARE CONTROL WIRE ALONG THE ENTIRE WIRE ROUTING FOR EACH CONTROLLER. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES.
- 10. SPLICING OF LOW VOLTAGE WIRES IS PERMITTED IN VALVE BOXES ONLY. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. DO NOT TAPE WIRES TOGETHER WHERE CONTAINED WITHIN SLEEVING

OR CONDUIT.

11. INSTALL GREEN PLASTIC VALVE BOXES WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. ACCEPTABLE VALVE BOX MANUFACTURER'S INCLUDE CARSON-BROOKS, DFW, OR APPROVED EQUAL.

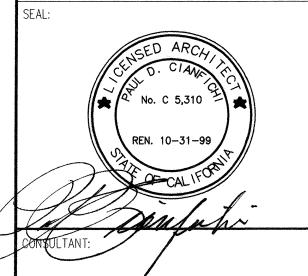
12. INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, BUILDING OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, INSTALL EACH BOX AN EQUAL DISTANCE FROM THE WALK, CURB, BUILDING, OR LANDSCAPE FEATURE AND PROVIDE 12" BETWEEN BOX TOPS. ALIGN THE SHORT SIDE OF RECTANGULAR VALVE BOXES PARALLEL TO WALK, CURB, BUILDING, OR LANDSCAPE FEATURE.

10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30

- 13. VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS (NOT IN LAWN AREA).
- 14. FLUSH AND ADJUST IRRIGATION OUTLETS AND NOZZLES FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS, SELECT THE BEST DEGREE OF ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH CONTROL ZONE.
- 15. SET SPRINKLER HEADS PERPENDICULAR TO FINISH GRADE.
- 16. LOCATE BUBBLERS ON UP-HILL SIDE OF PLANT OR TREE.
- 17. INSTALL A HUNTER HCV SERIES, KBI CV-SERIES, OR APPROVED EQUAL SPRING LOADED CHECK VALVE IN SPRINKLER RISER ASSEMBLIES WHERE LOW OUTLET DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
- 18. WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, USE CAUTION TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATE BY HAND IN AREAS WHERE TWO(2) INCH AND LARGER ROOTS OCCUR. PAINT ROOTS ONE(1) INCH AND LARGER IN DIAMETER WITH TWO COATS OF TREE SEAL, OR EQUAL. BACKFILL TRENCHES ADJACENT TO TREE WITHIN TWENTY-FOUR(24) HOURS. WHERE THIS IS NOT POSSIBLE. SHADE THE SIDE OF THE TRENCH ADJACENT TO THE TREE WITH WET BURLAP OR CANVAS.
- 19. IRRIGATION DEMAND: 33 GPM AT 80 PSI STATIC PRESSURE AT IRRIGATION POINT OF CONNECTION.
- 20. THE EXISTING MAIN LINE SHOWN ON THE DRAWINGS IS DIAGRAMMATIC. VERIFY AND LOCATE EXISTING MAIN LINE IN FIELD. REPORT TO ARCHITECT IN WRITING ANY DEVIATION OF EXISTING MAIN LINE LOCATION FROM THAT SHOWN ON THE DRAWINGS.
- 21. AT POINTS OF CONNECTION BETWEEN NEW MAIN LINE AND EXISTING GASKETED MAIN LINE USE THE FOLLOWING PROCEDURE:
 - A. CUT AND REMOVE EXISTING MAIN LINE AS SHOWN ON PLANS. REAM FIELD CUT END TO FULL PIPE DIAMETER WITH ROUGH EDGES AND BURRS REMOVED.
 - B. ASSEMBLE NEW MAIN LINE TO EXISTING MAINLINE WITH A DUCTILE IRON GASKETED REPAIR COUPLING, SIZE AS REQUIRED (HARCO, OR APPROVED EQUAL). THRUST BLOCK AT CHANGE OF PIPE DIRECTION IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.

DESCRIPTION INITIAL DATE ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK 12/14/98 ISSUED FOR PERMIT 5/4/99 ISSUED FOR BID ISSUED FOR CONSTRUCTION



Russell D. Mitchell Associates, Inc.

> INTERACTIVE R E S O U R C E S

ARCHITECTURE • PLANNING • ENGINEERING 117 PARK PLACE POINT RICHMOND CALIFORNIA 94801

(510) 236-7435 (FAX) 232-5325 http://www.intres.com

VOCATIONAL TECHNOLOGY ADDITION

LOS MEDANOS COLLEGE 2700 EAST LELAND ROAD PITTSBURG, CA. 94565

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

APPLO1 10 11 83 AC A FLS SS RAIC DATE 5/4/99

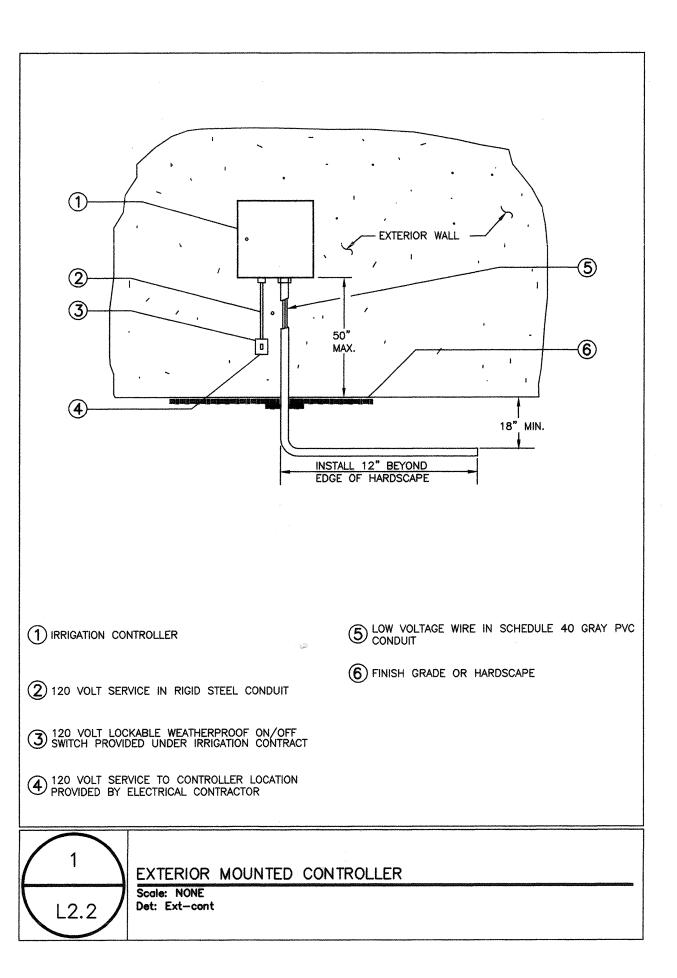
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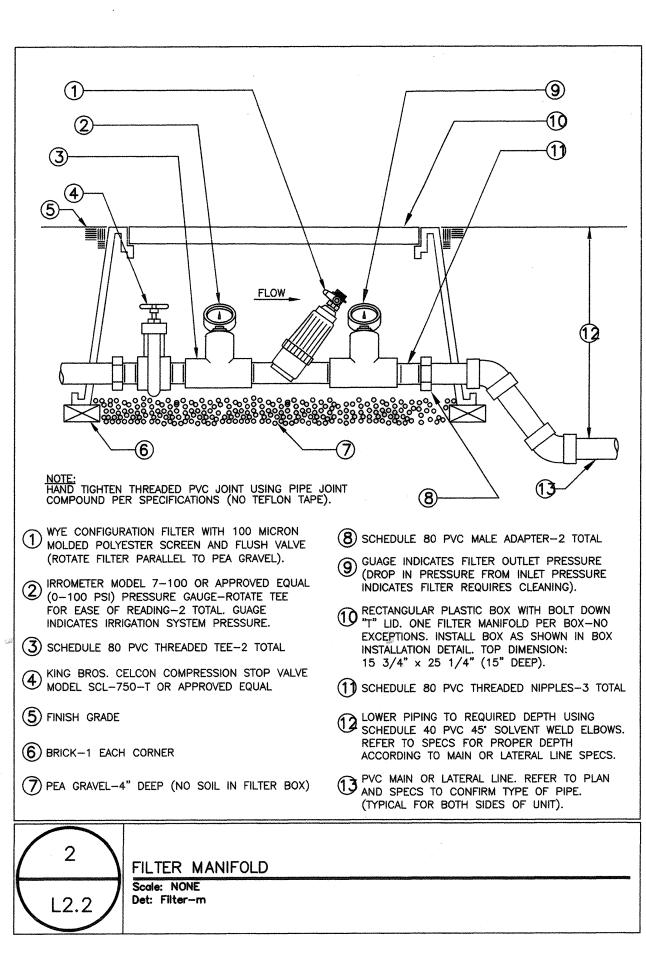
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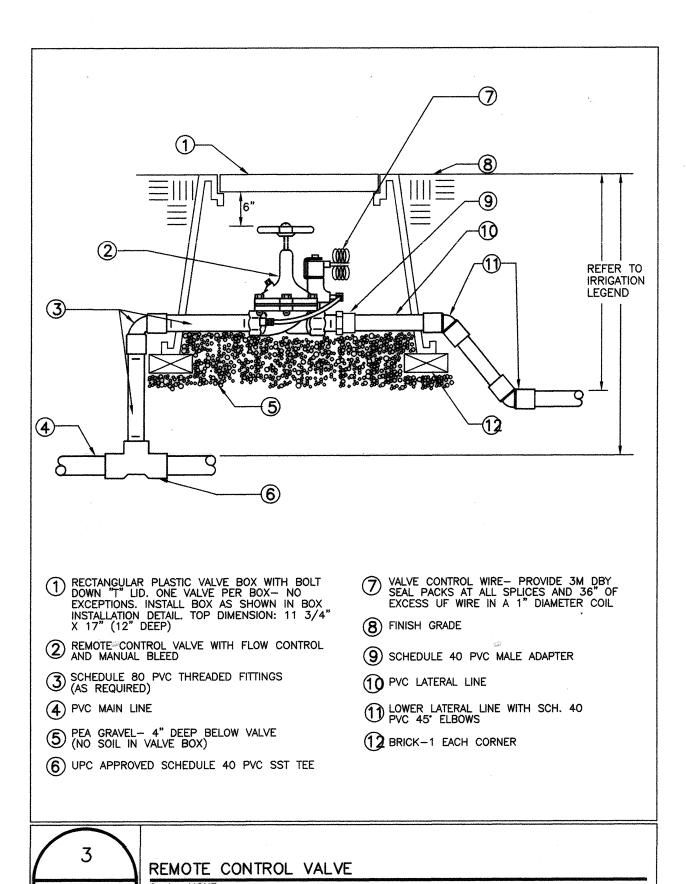
PREPARATION AND REVIEW DESIGNER

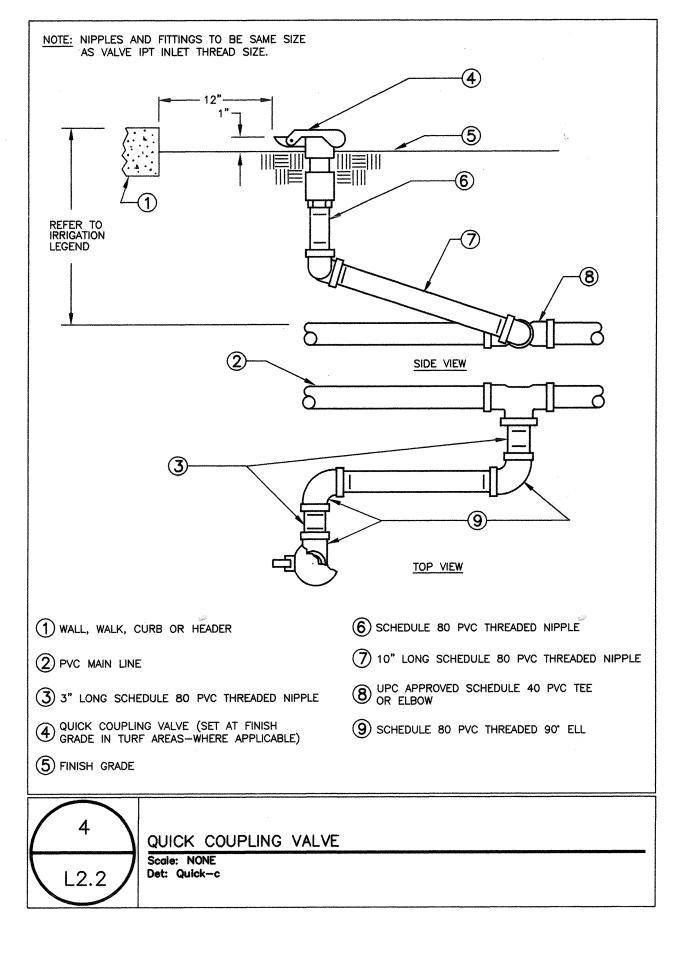
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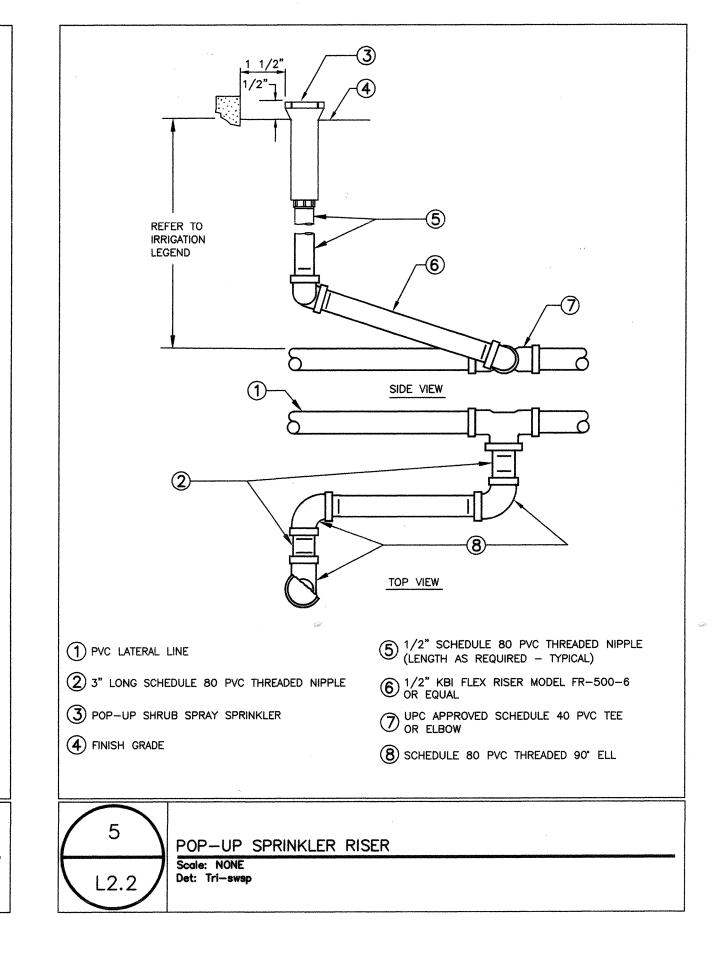
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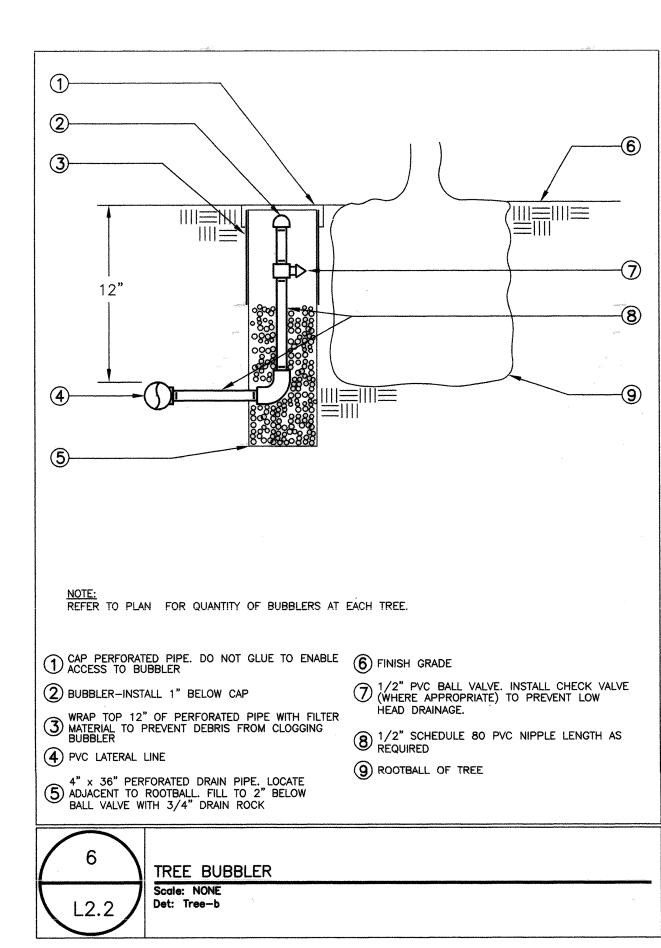


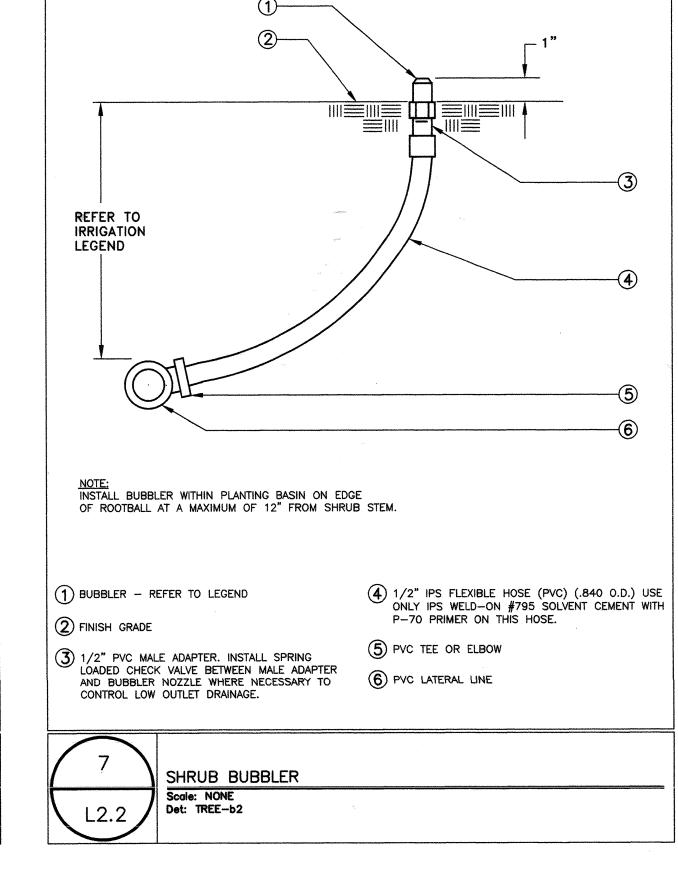


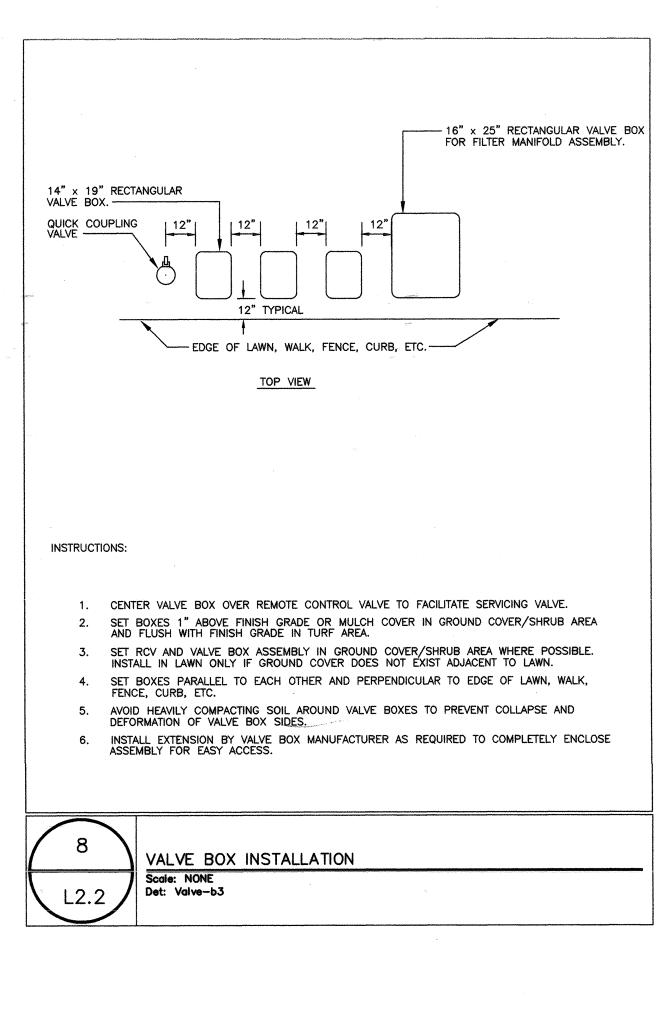


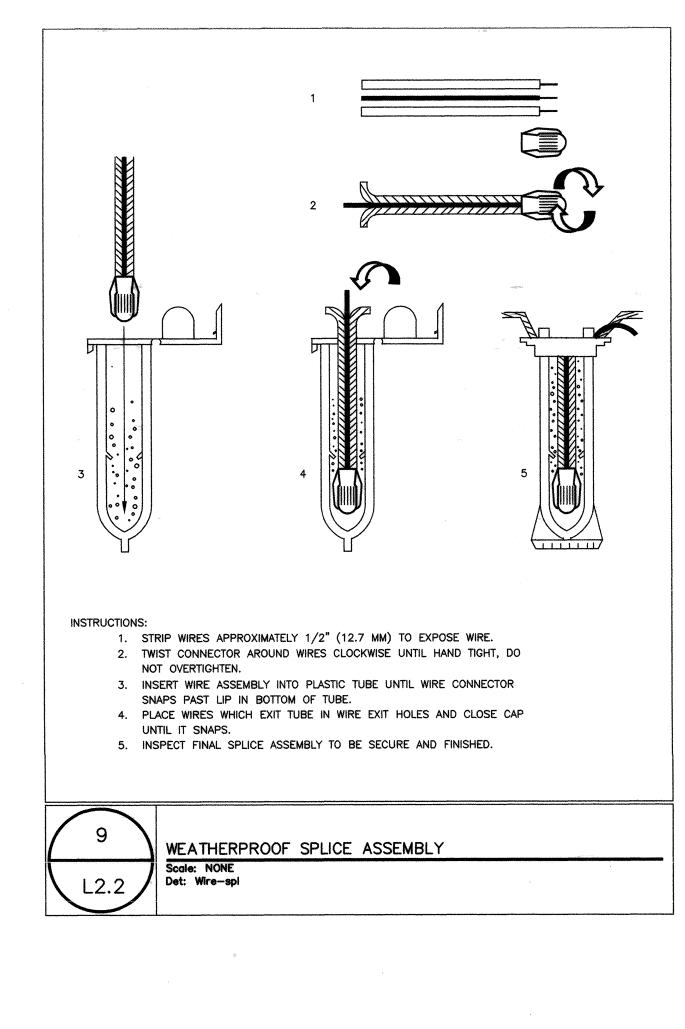


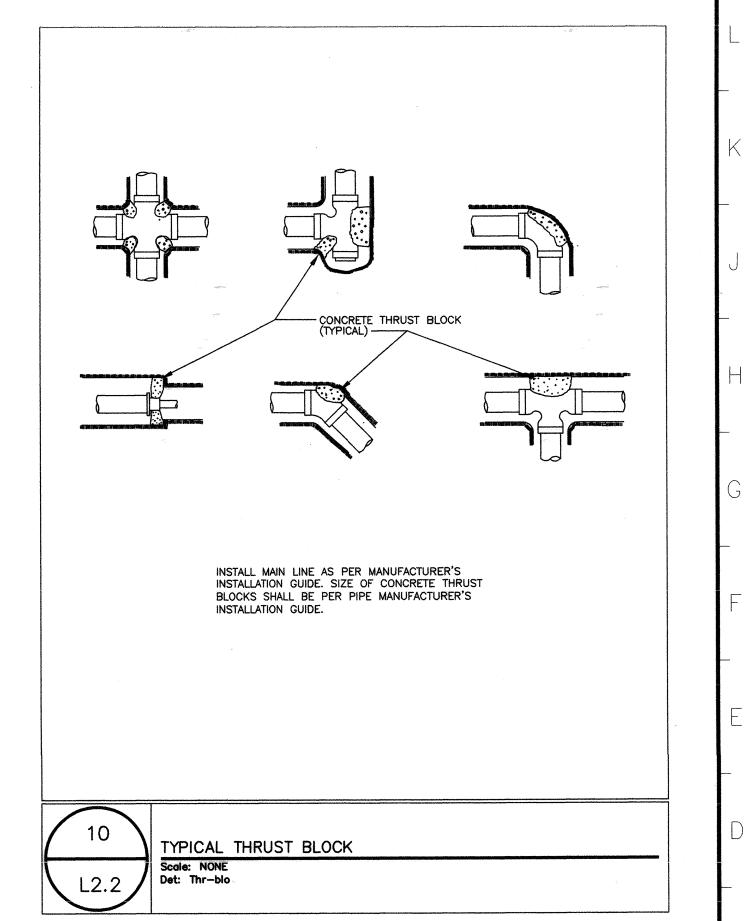


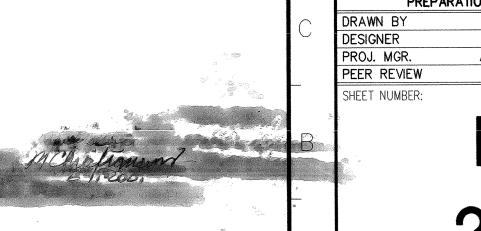












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REVISION DESCRIPTION

ISSUED FOR PROGRESS REVIEW

ISSUED FOR PLAN CHECK

ISSUED FOR CONSTRUCTION

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INTERACTIVE

ARCHITECTURE • PLANNING • ENGINEERING

117 PARK PLACE POINT RICHMOND CALIFORNIA 94801

(510) 236-7435 (FAX) 232-5325 http://www.intres.com

VOCATIONAL

TECHNOLOGY

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AC A FLS SS R400 DATE 5/4/99

IRRIGATION DETAILS

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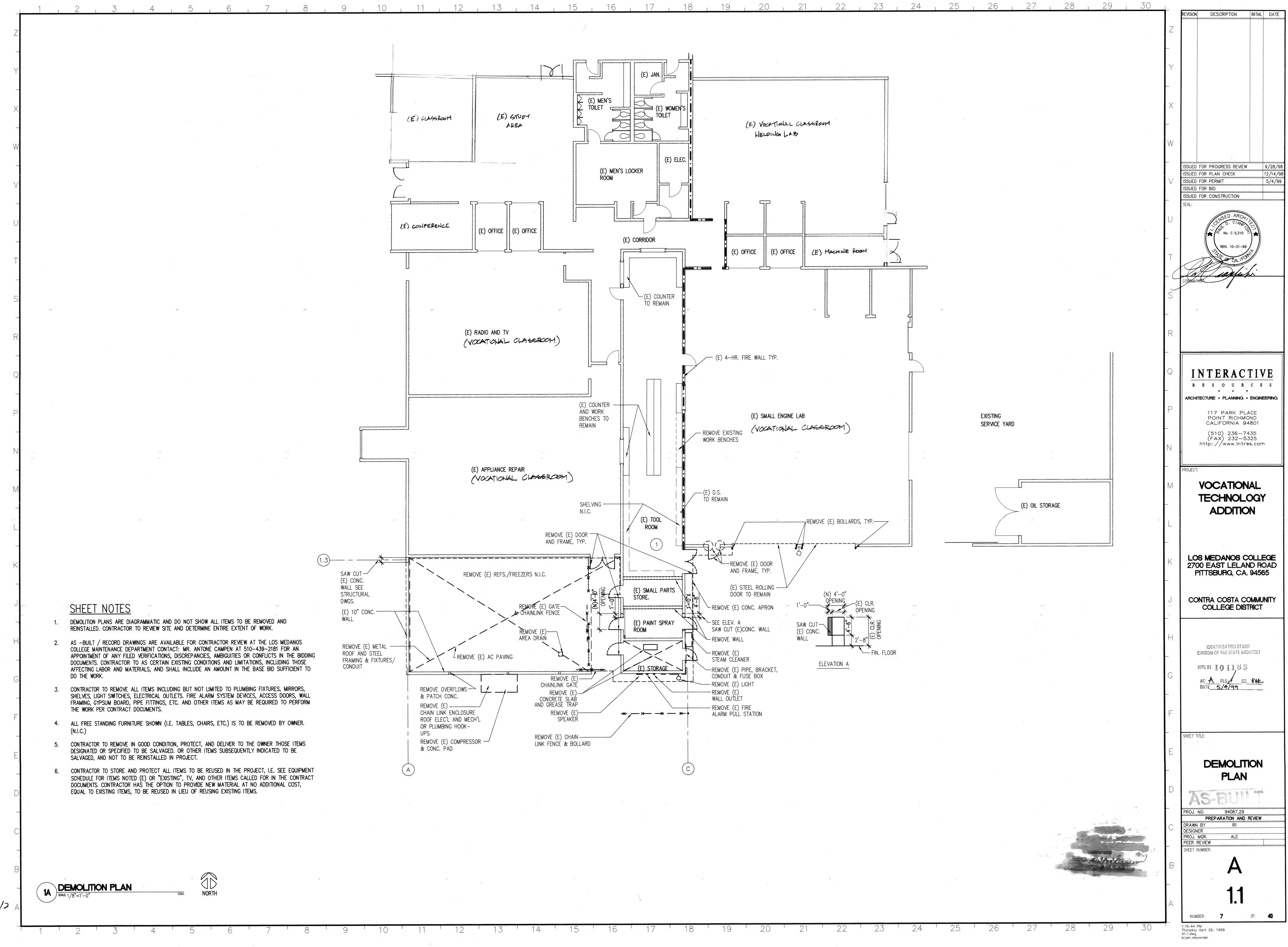
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ISSUED FOR BID

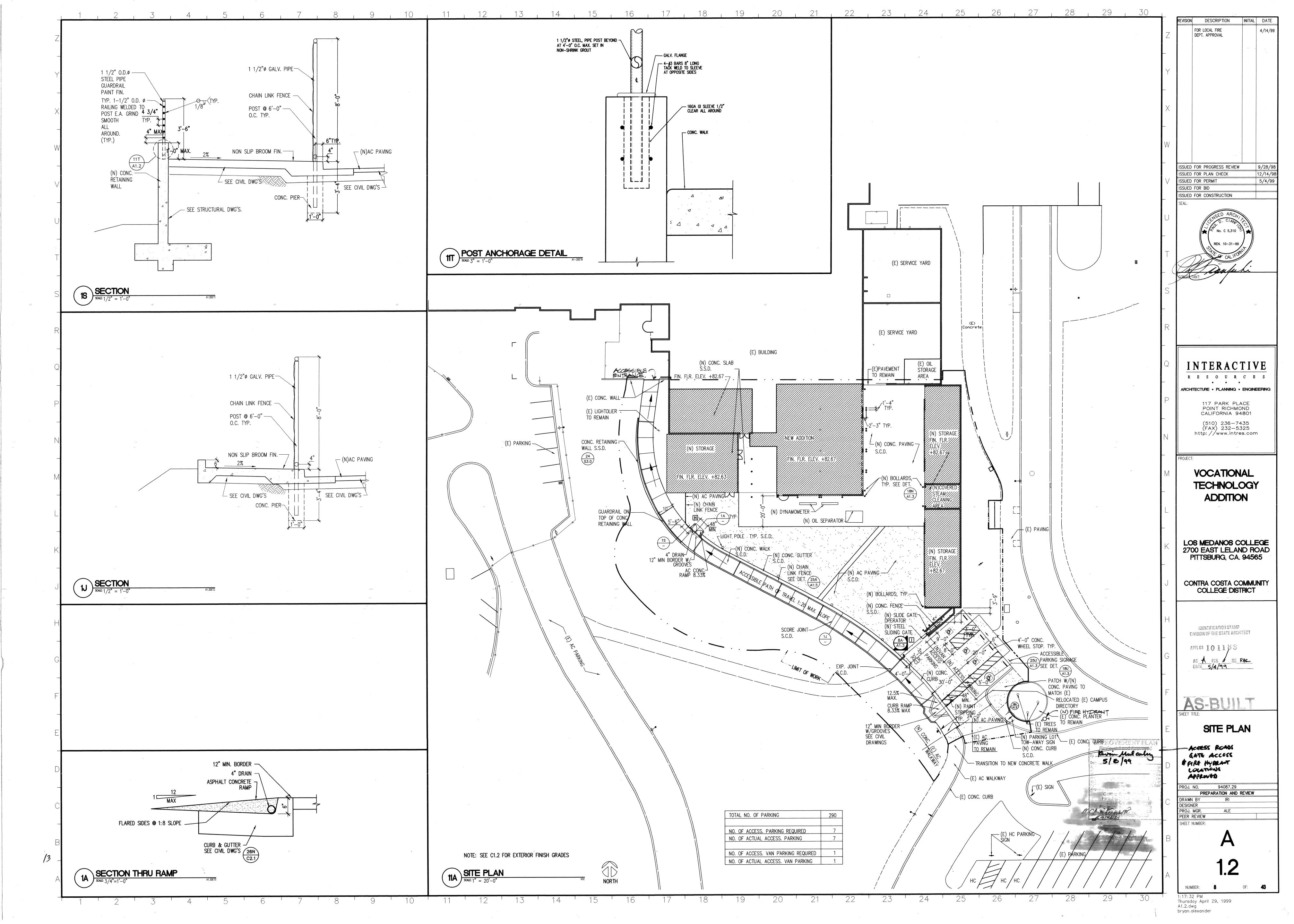
2760 Carnino Diablo Walnut Creek, CA 94596

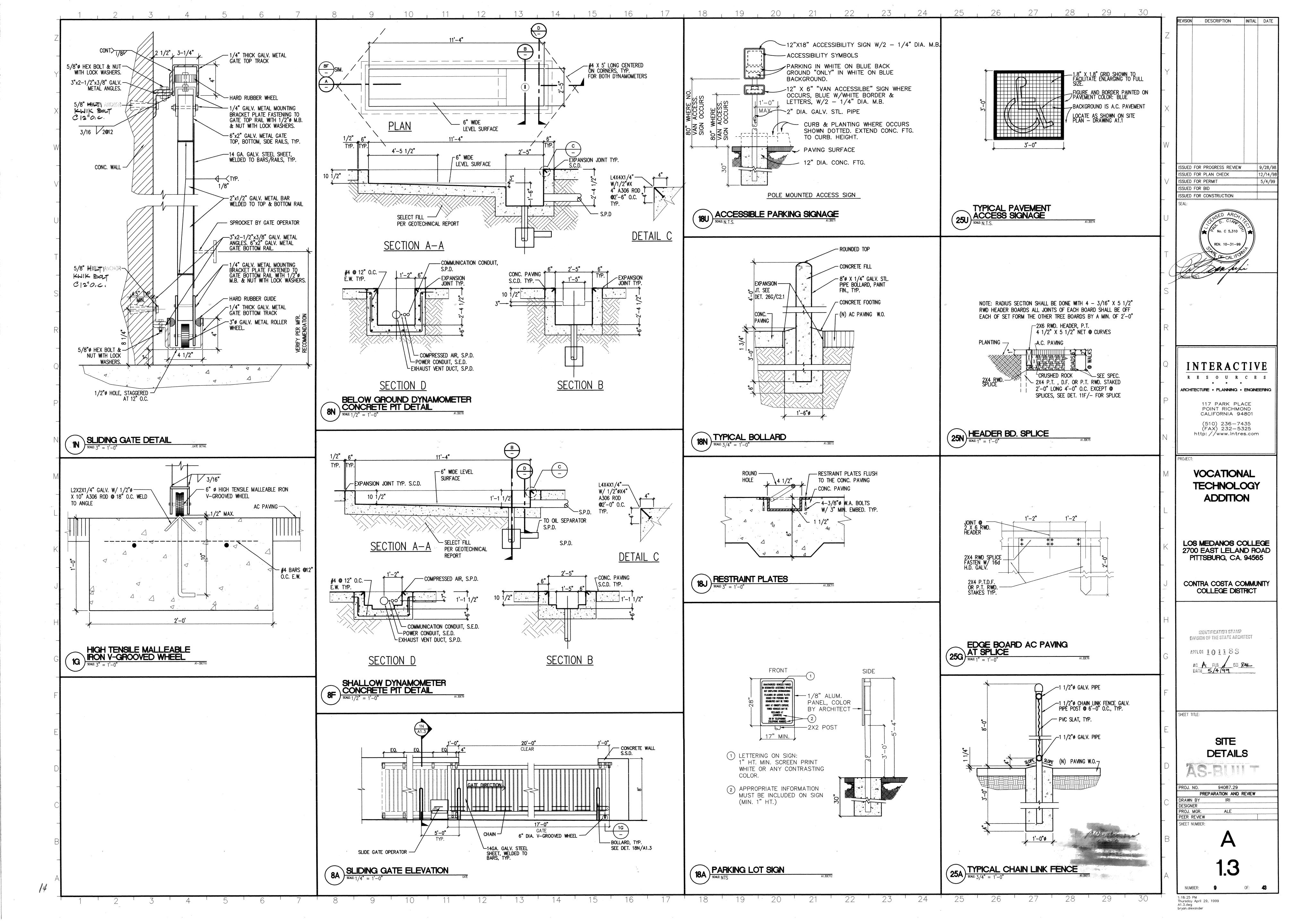
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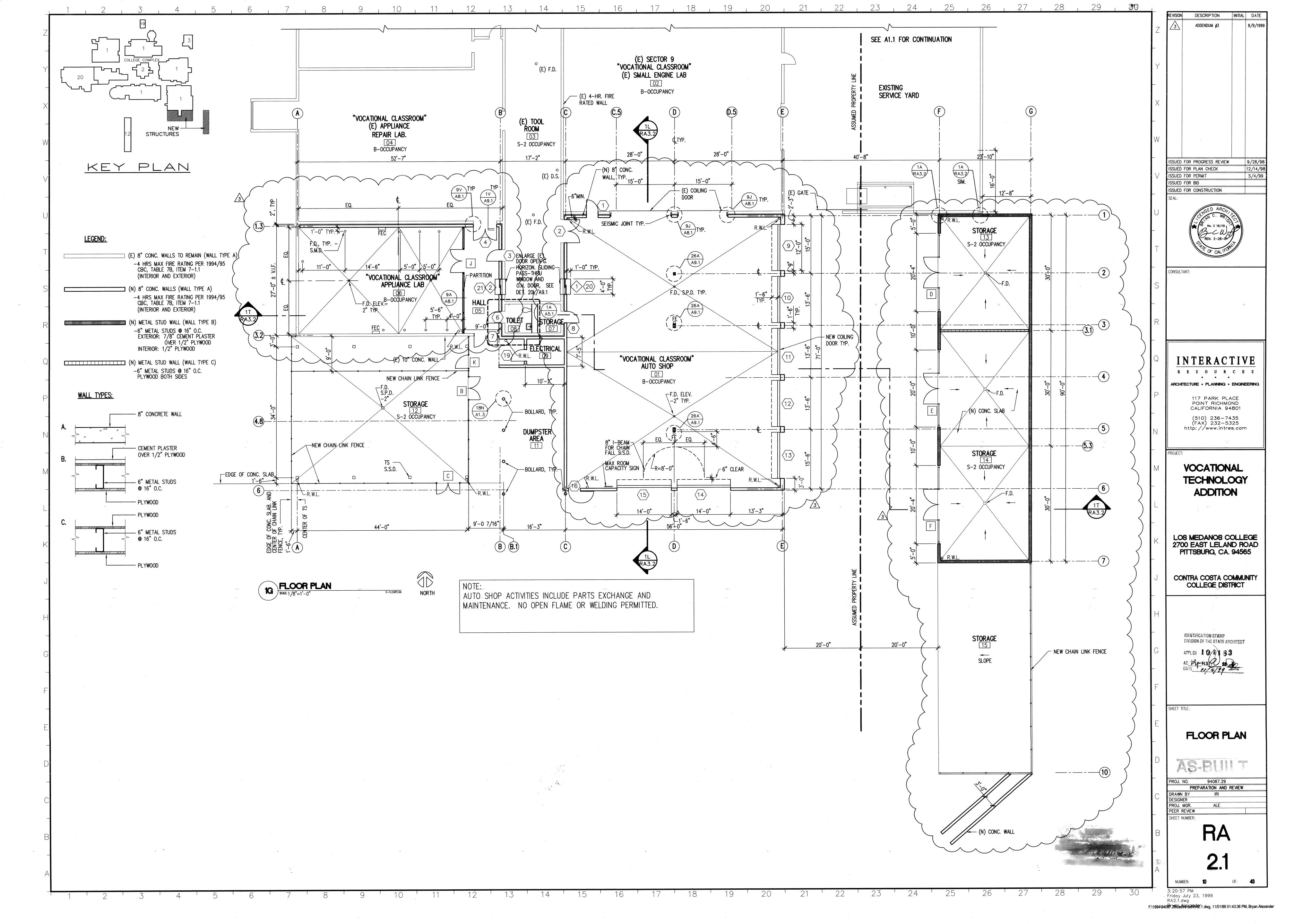
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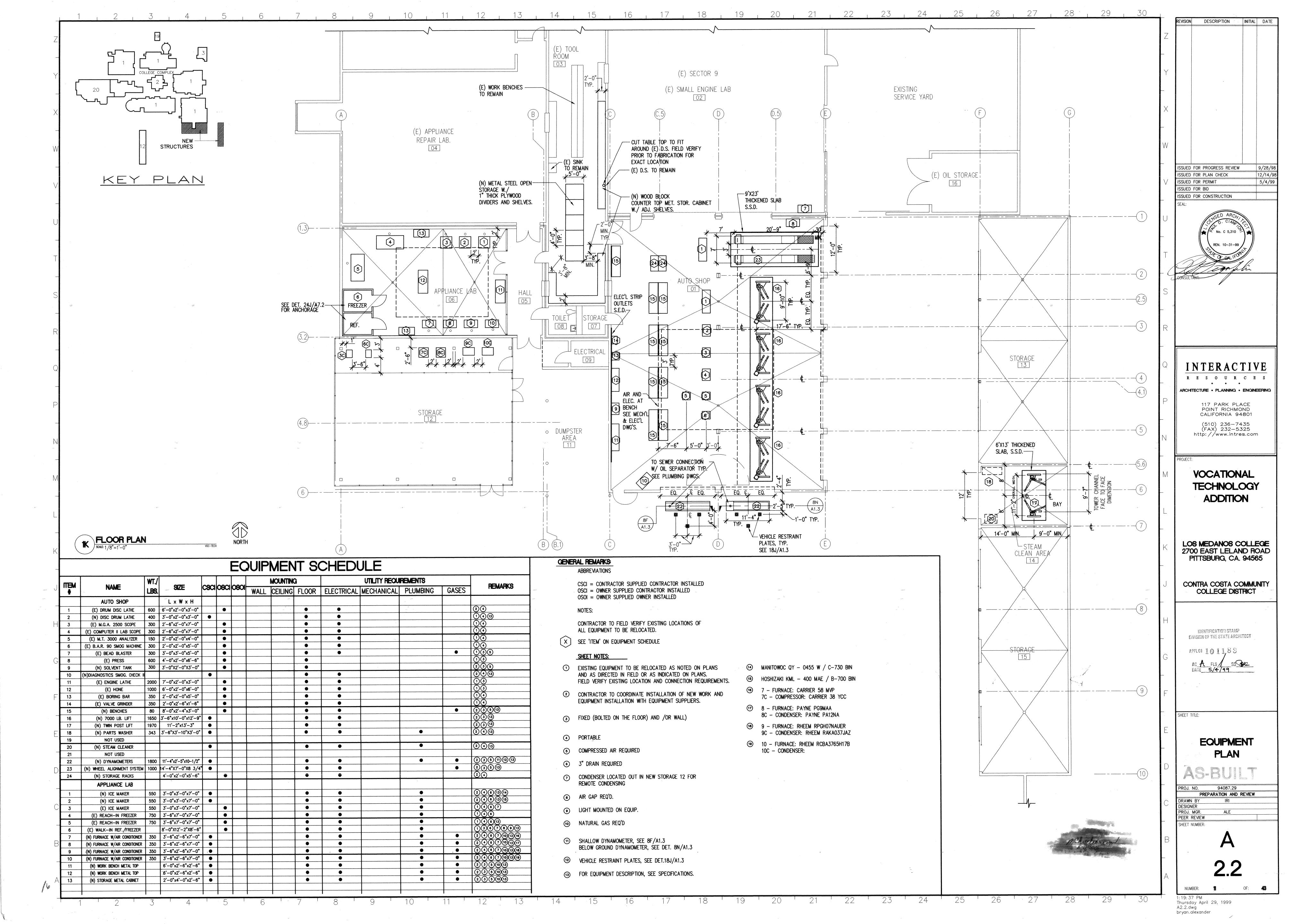


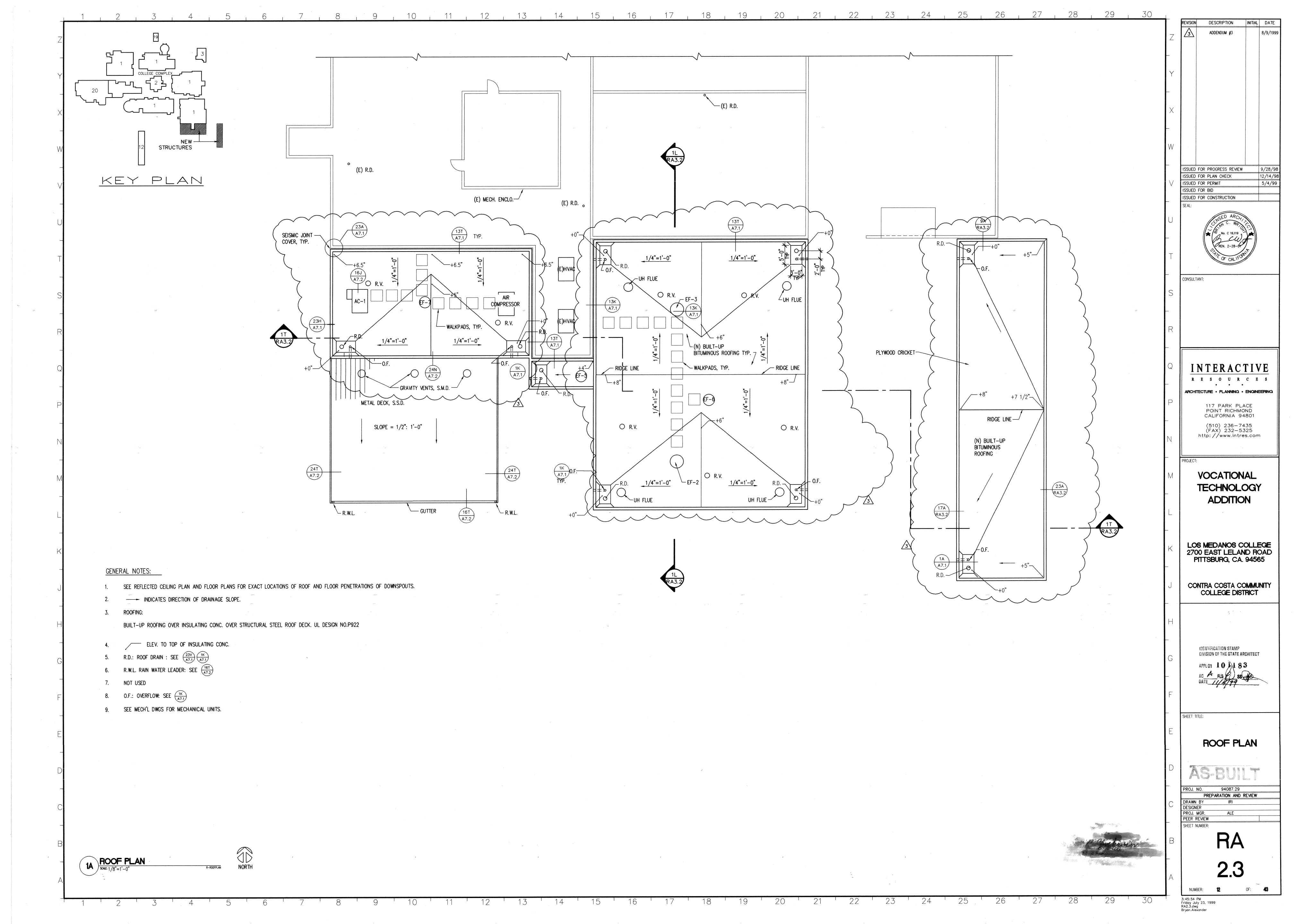
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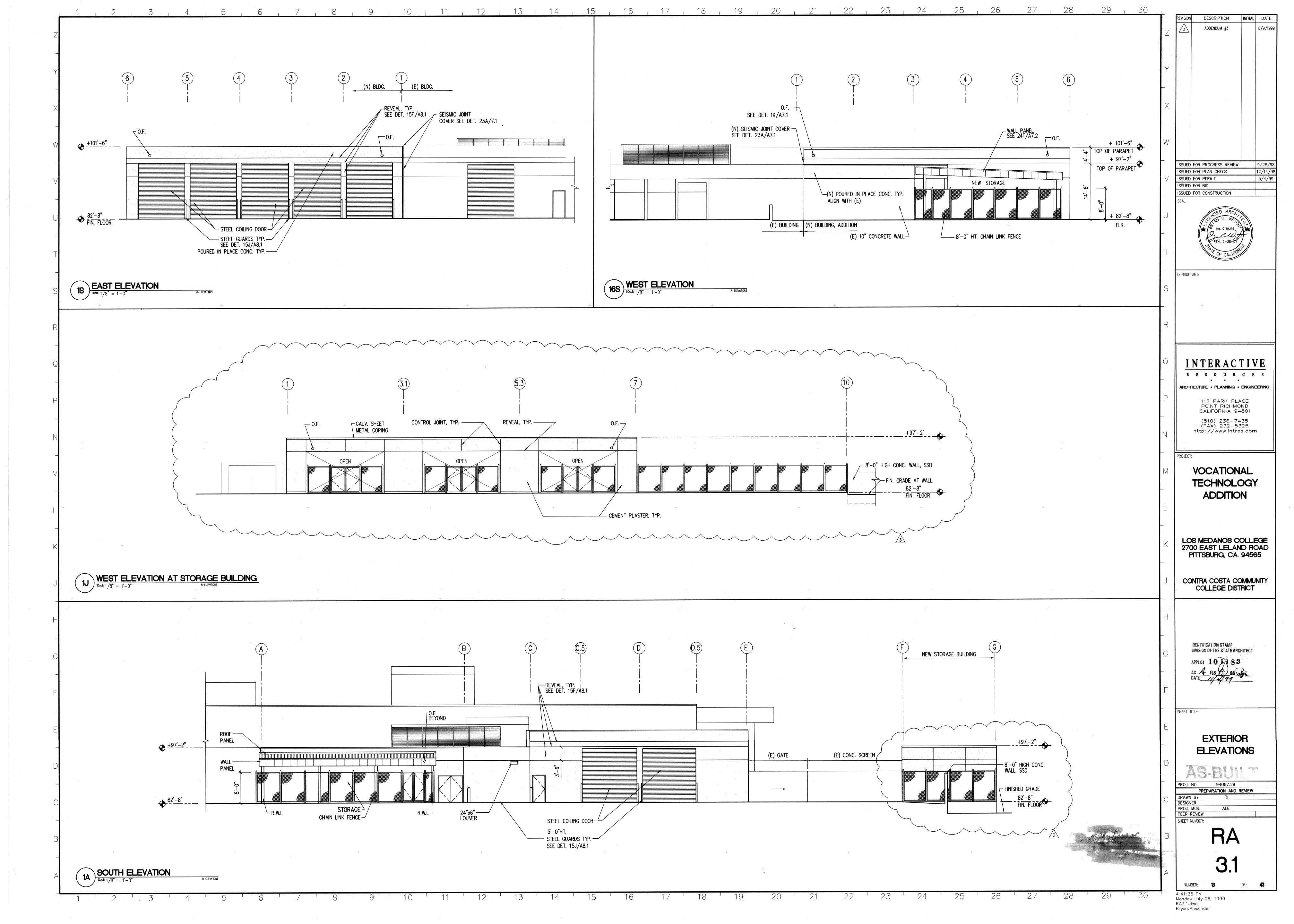


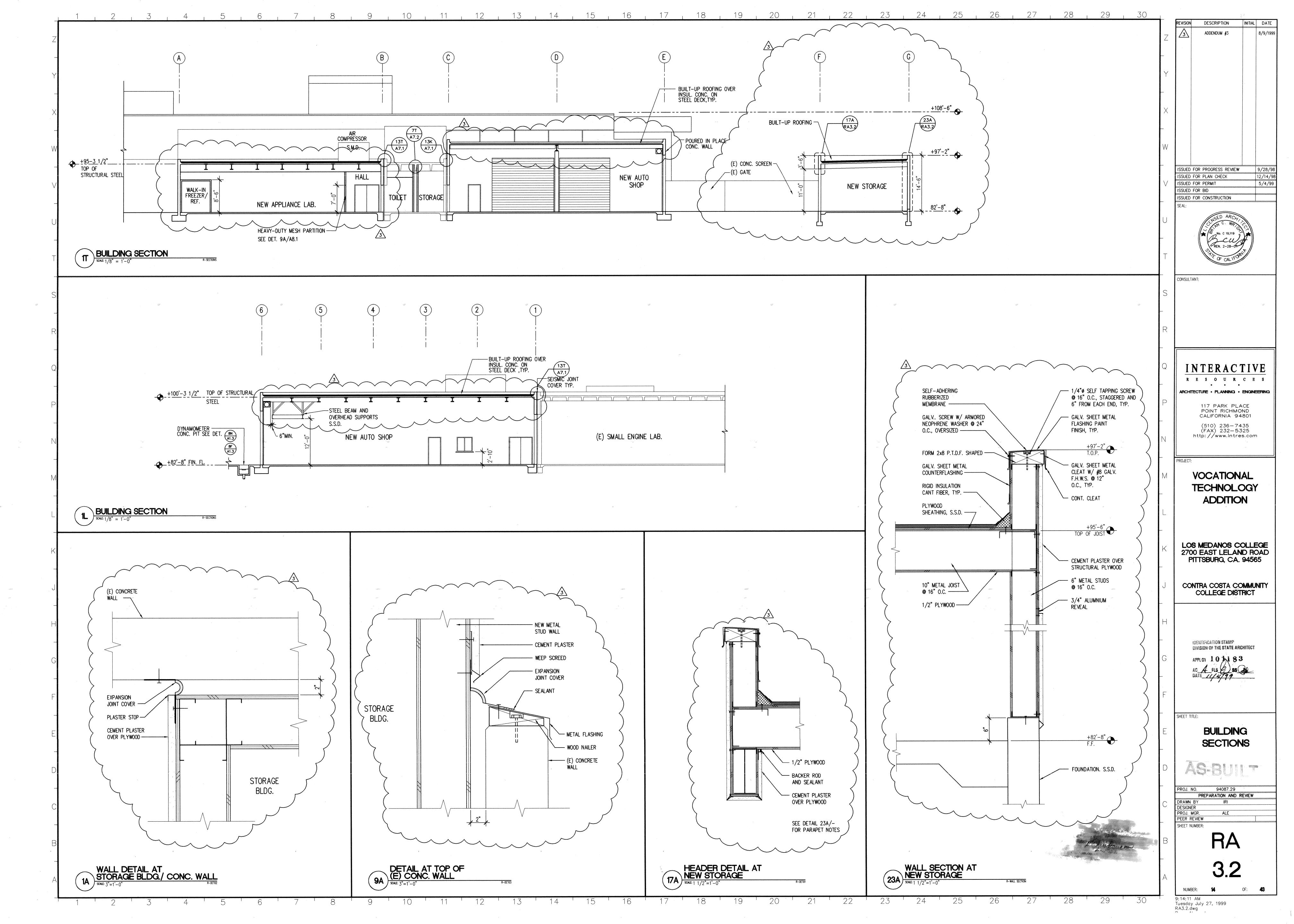


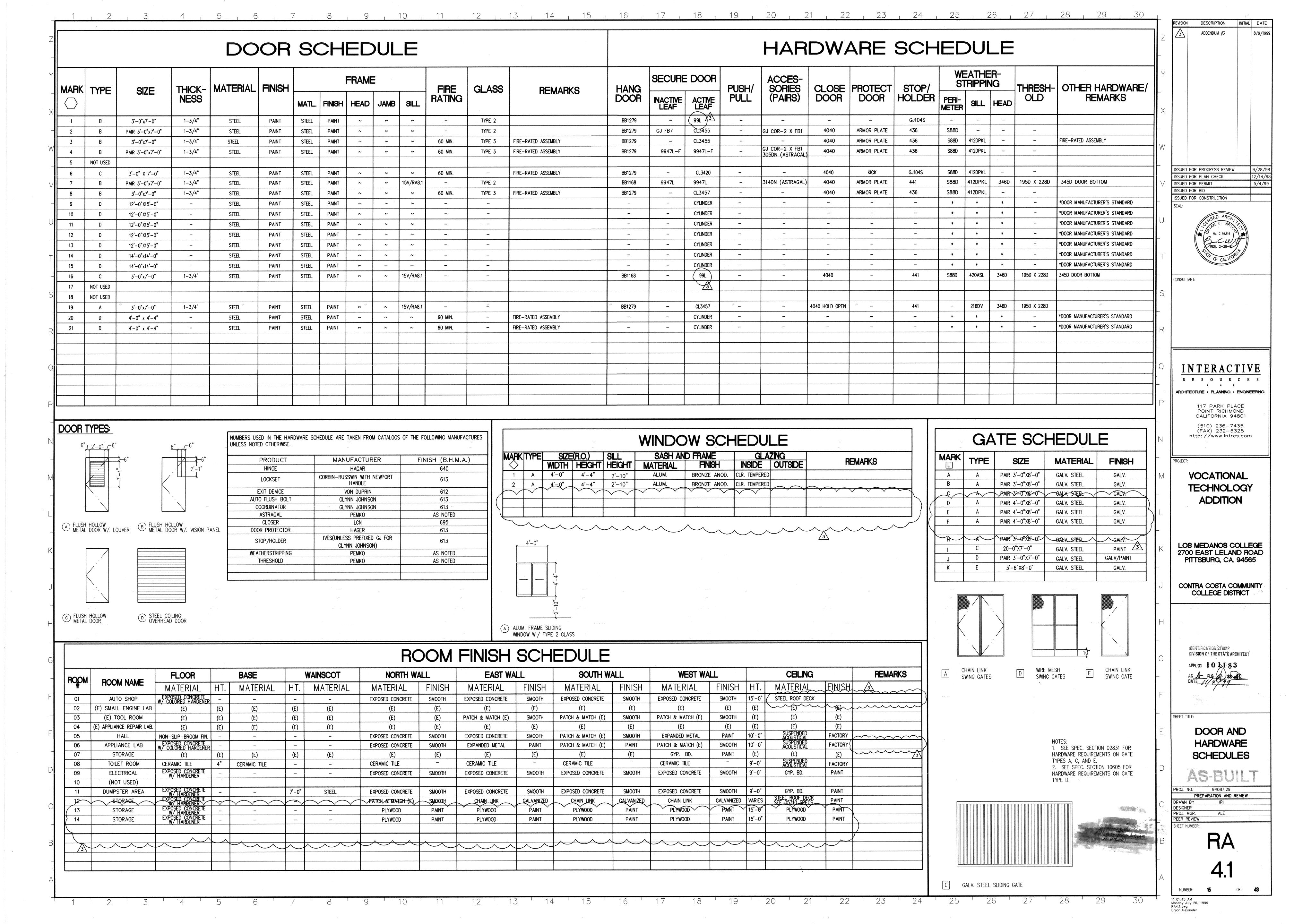


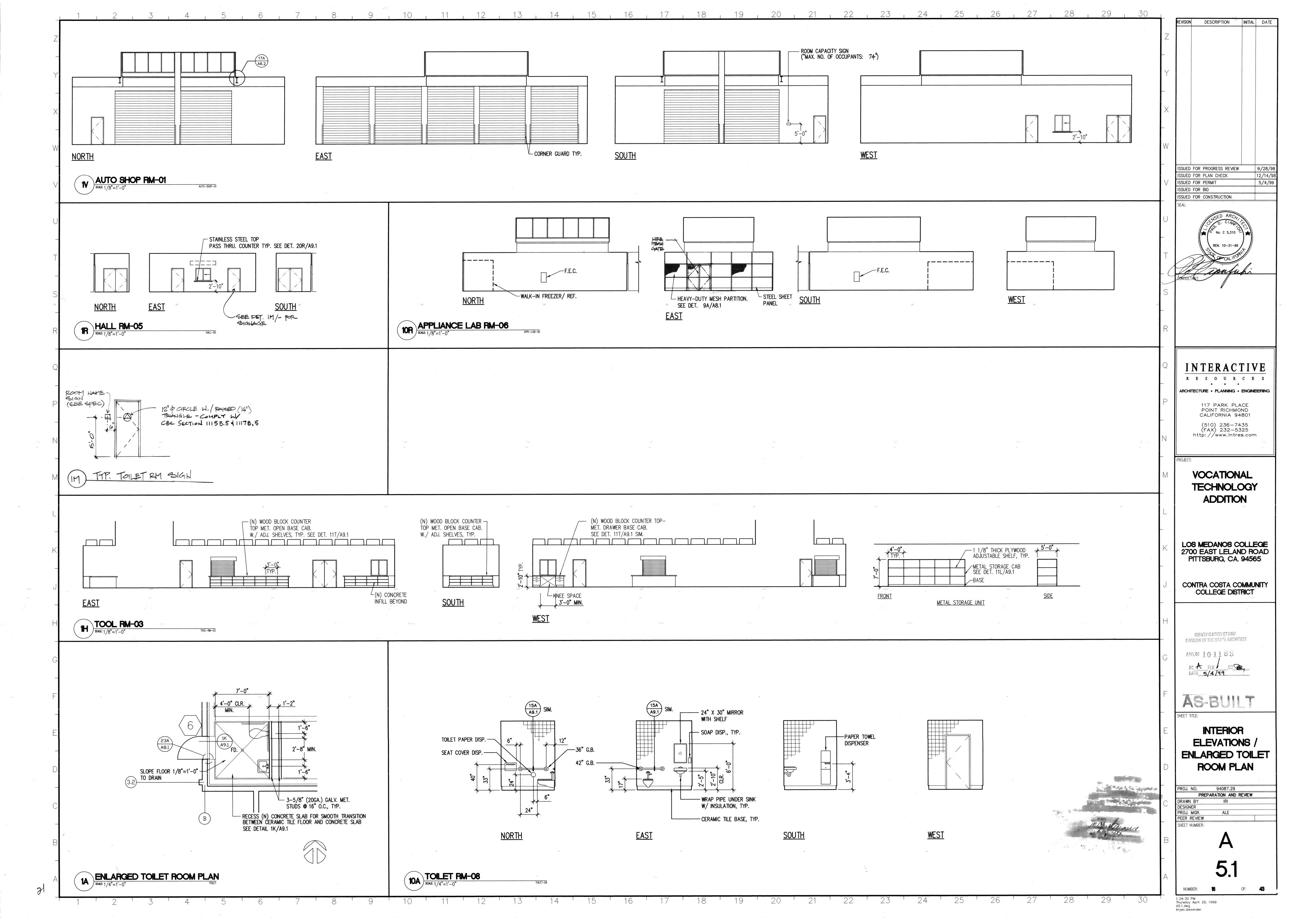


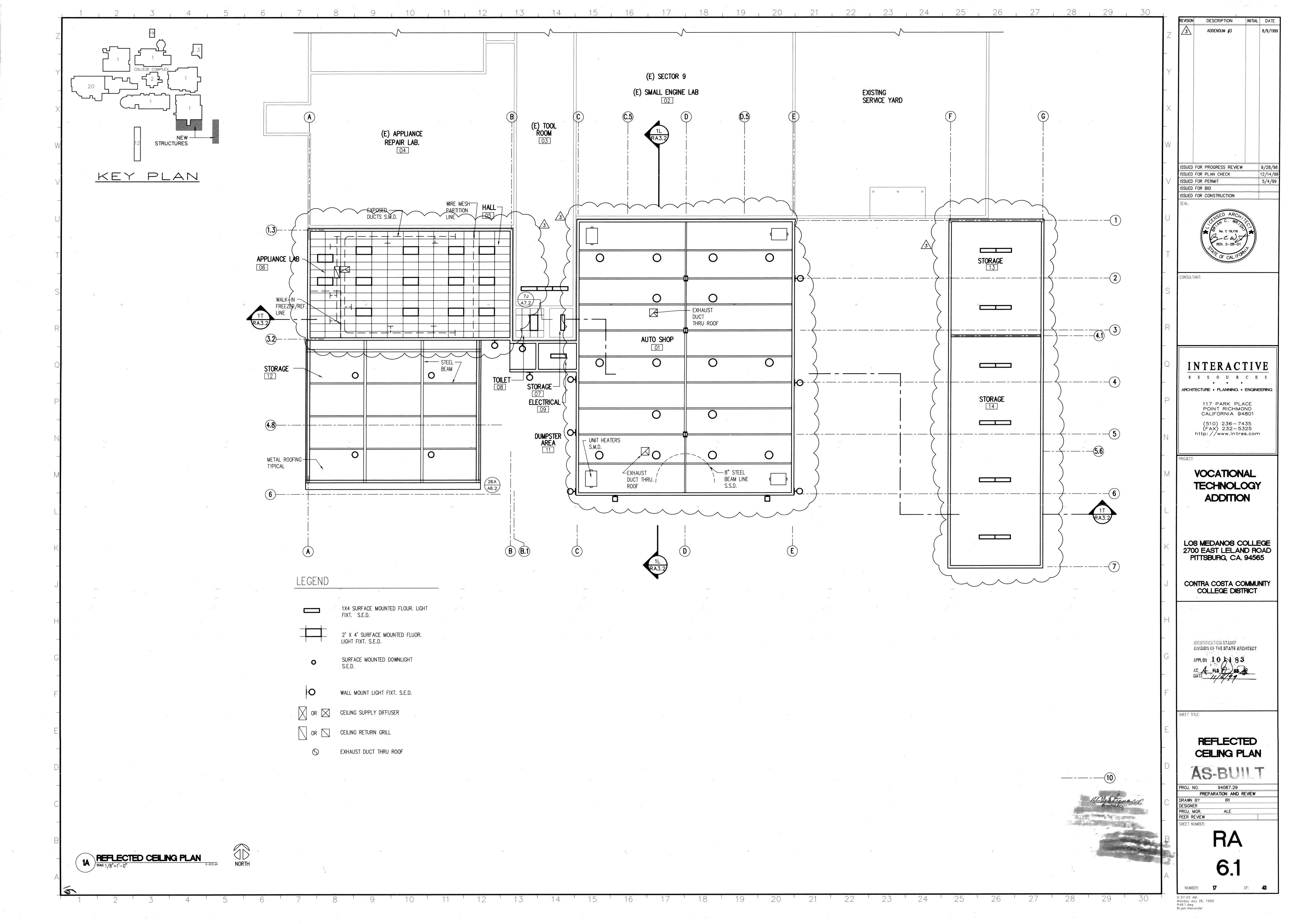


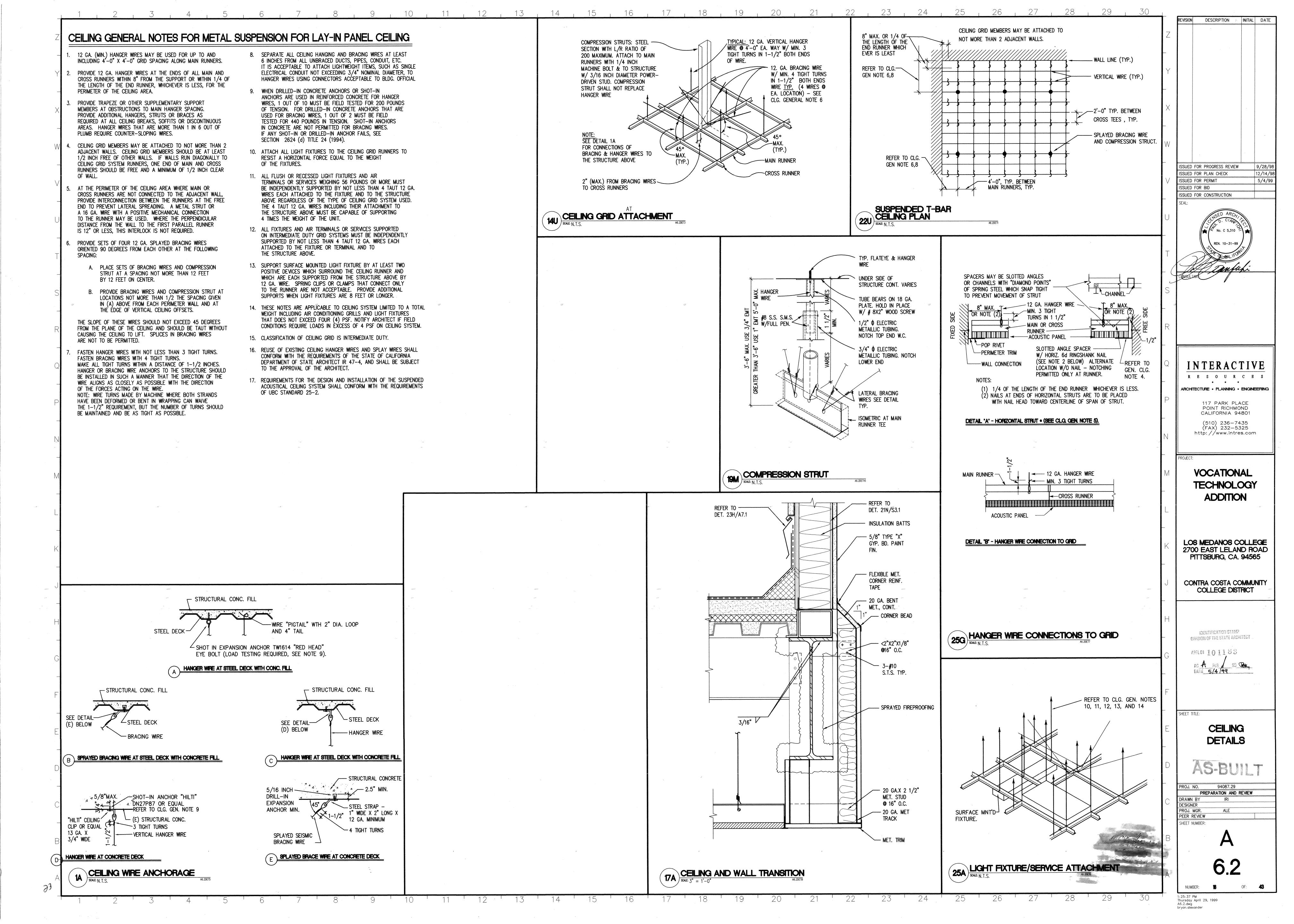


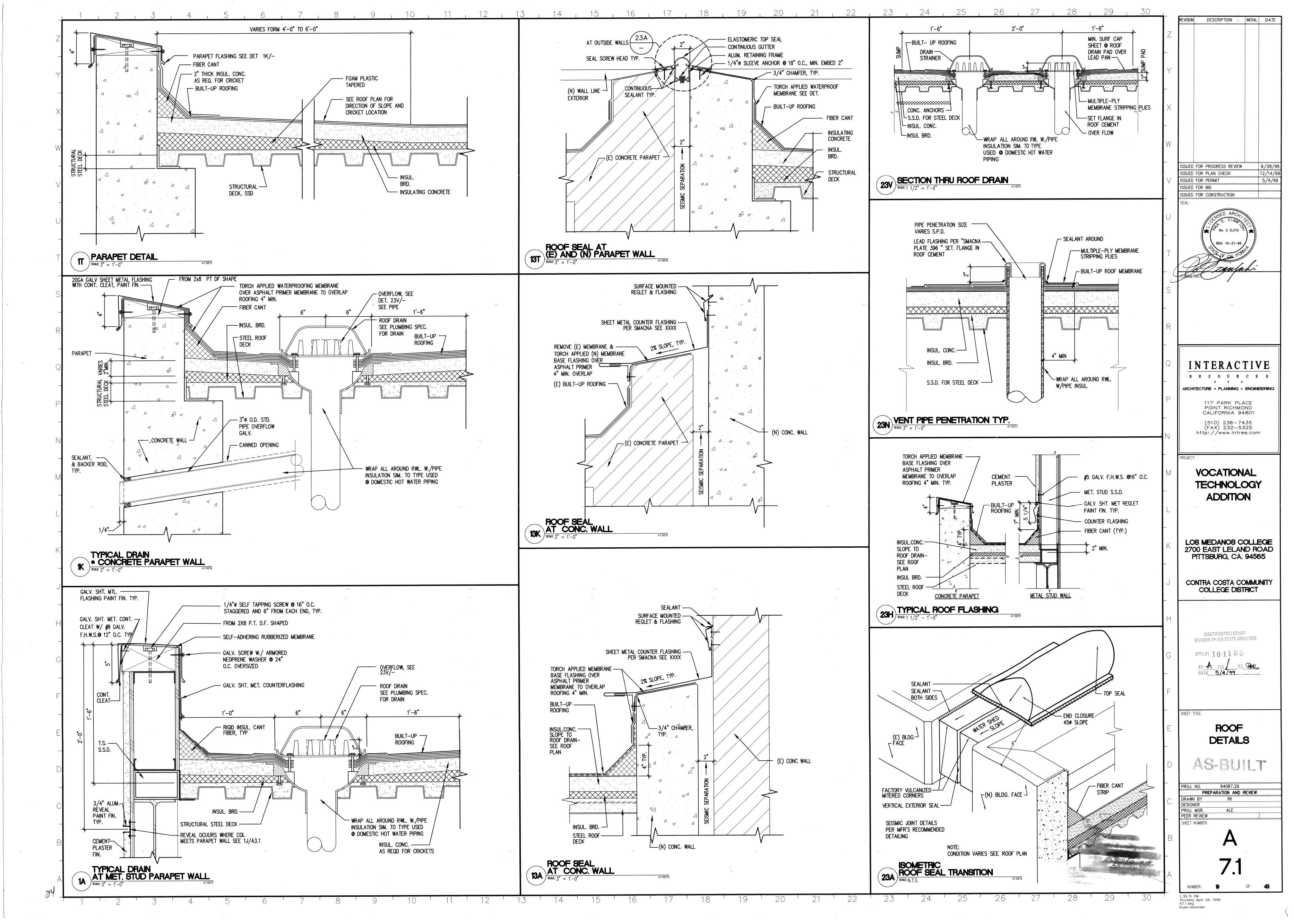


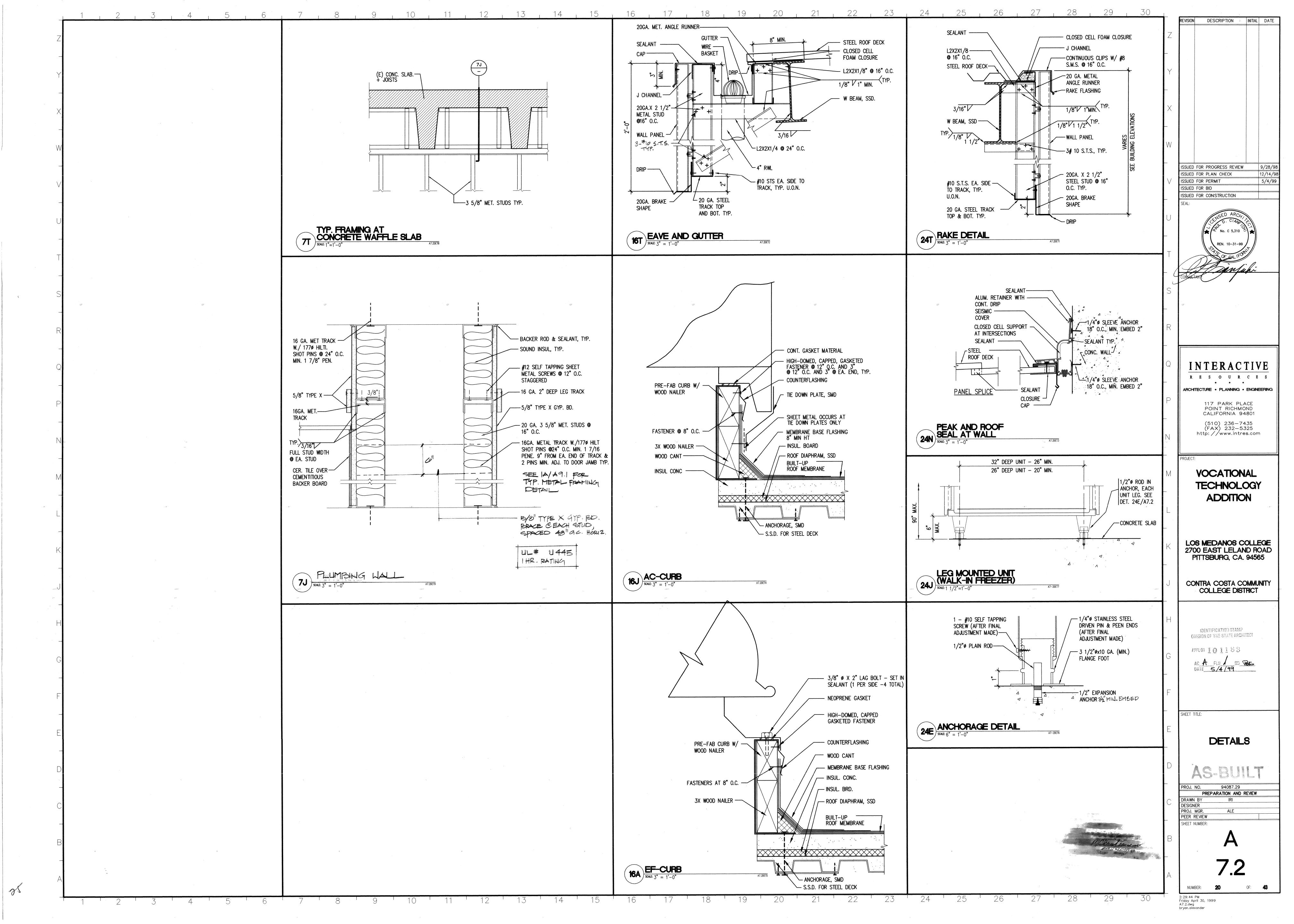


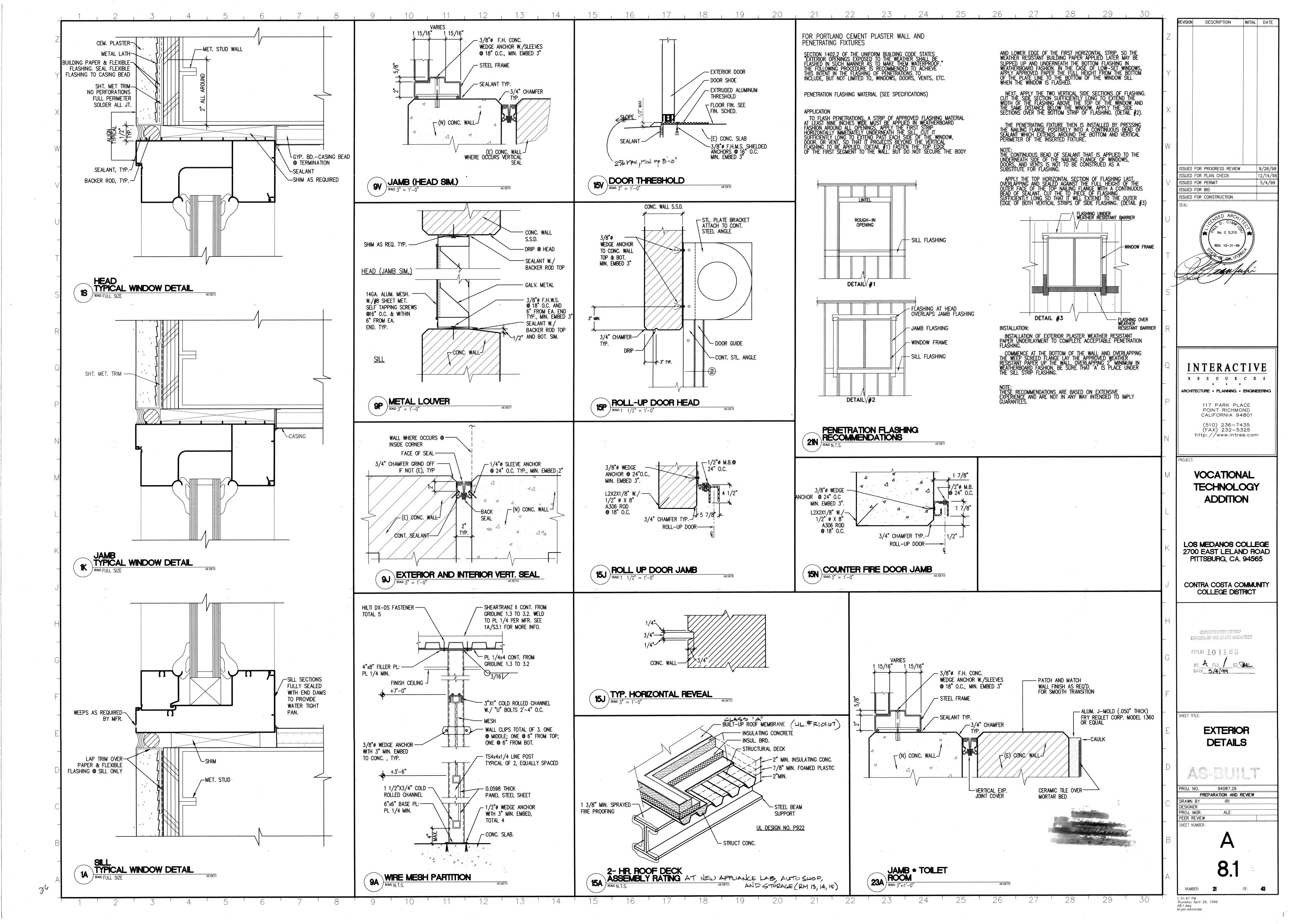


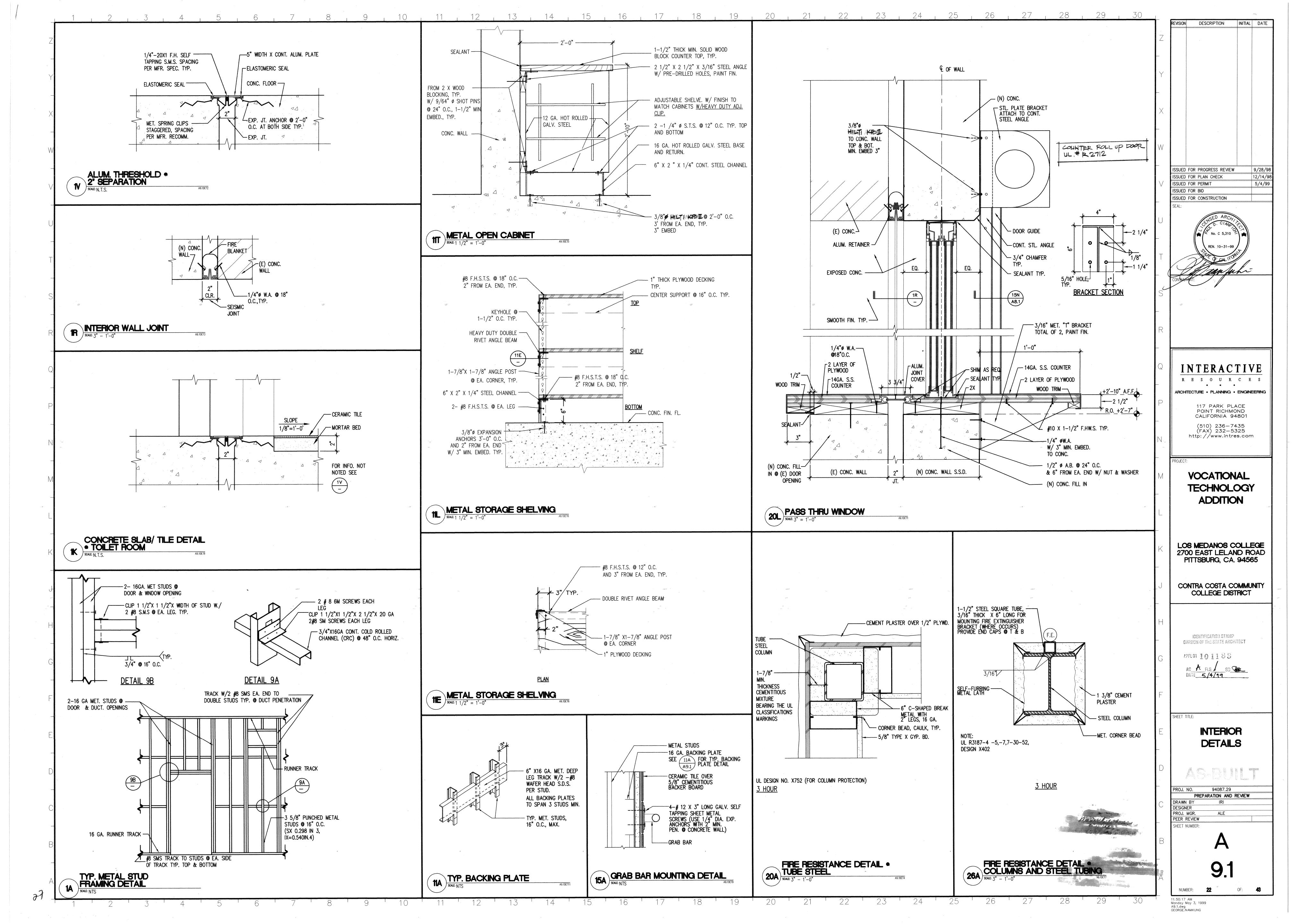


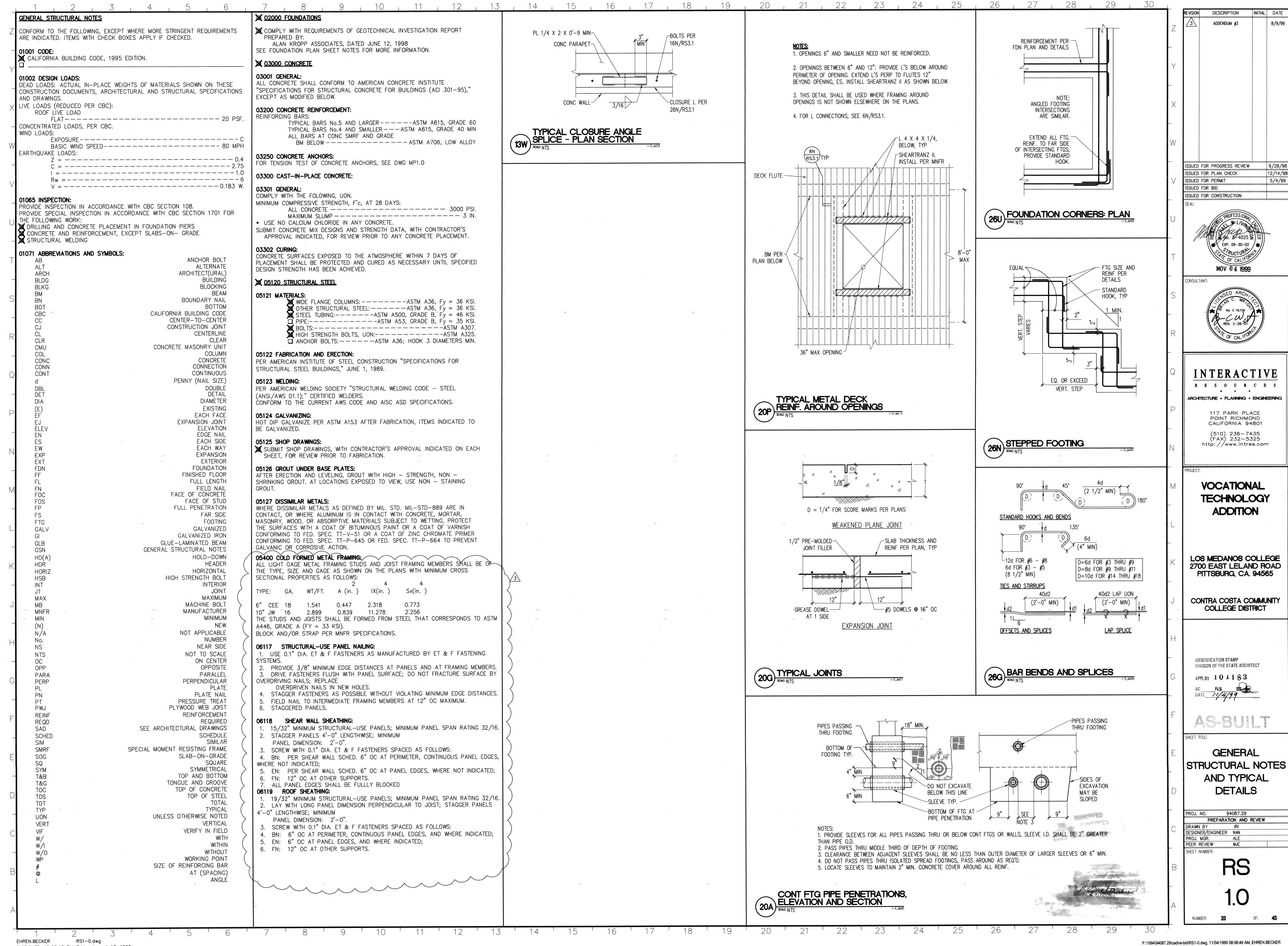


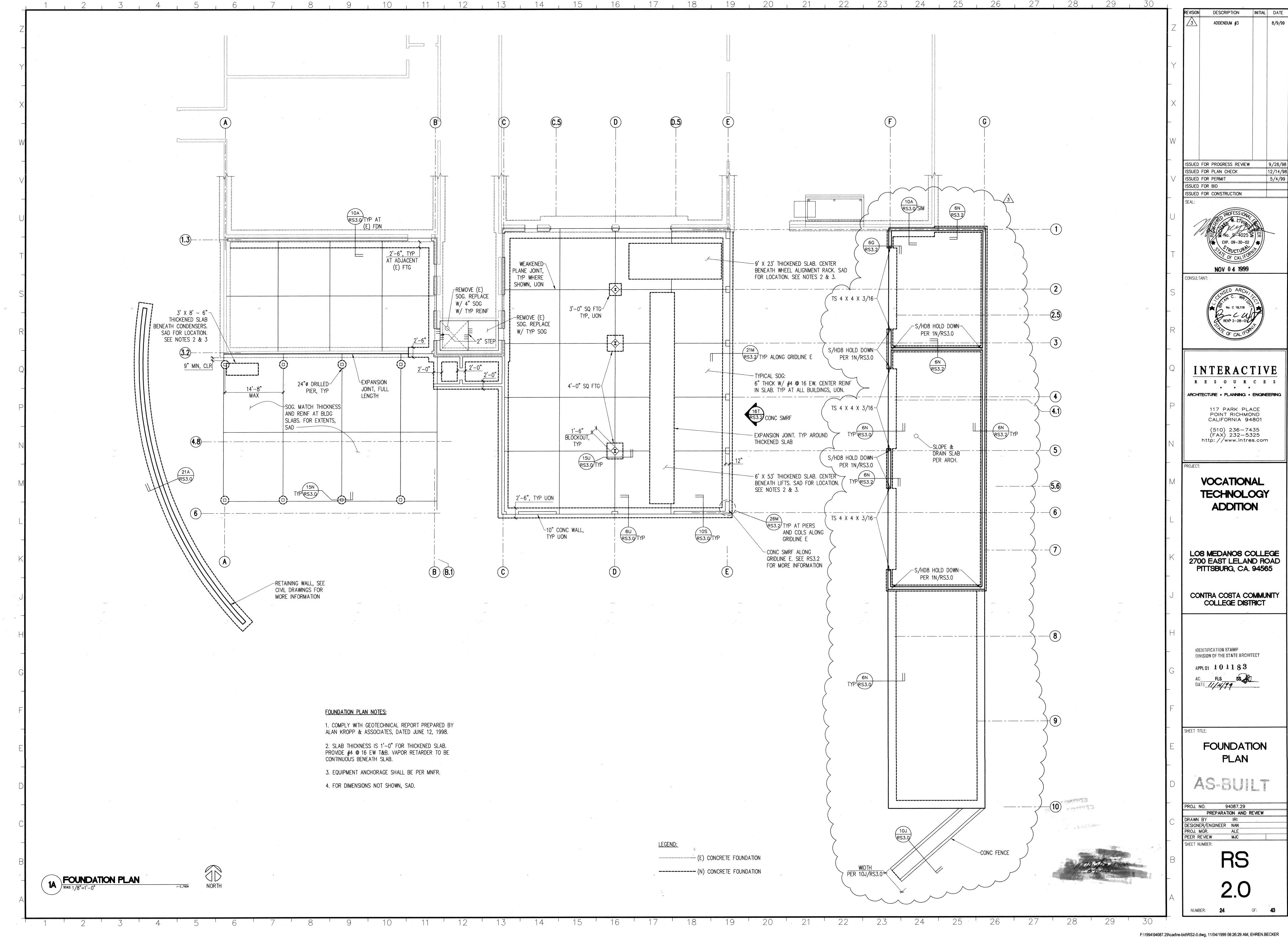


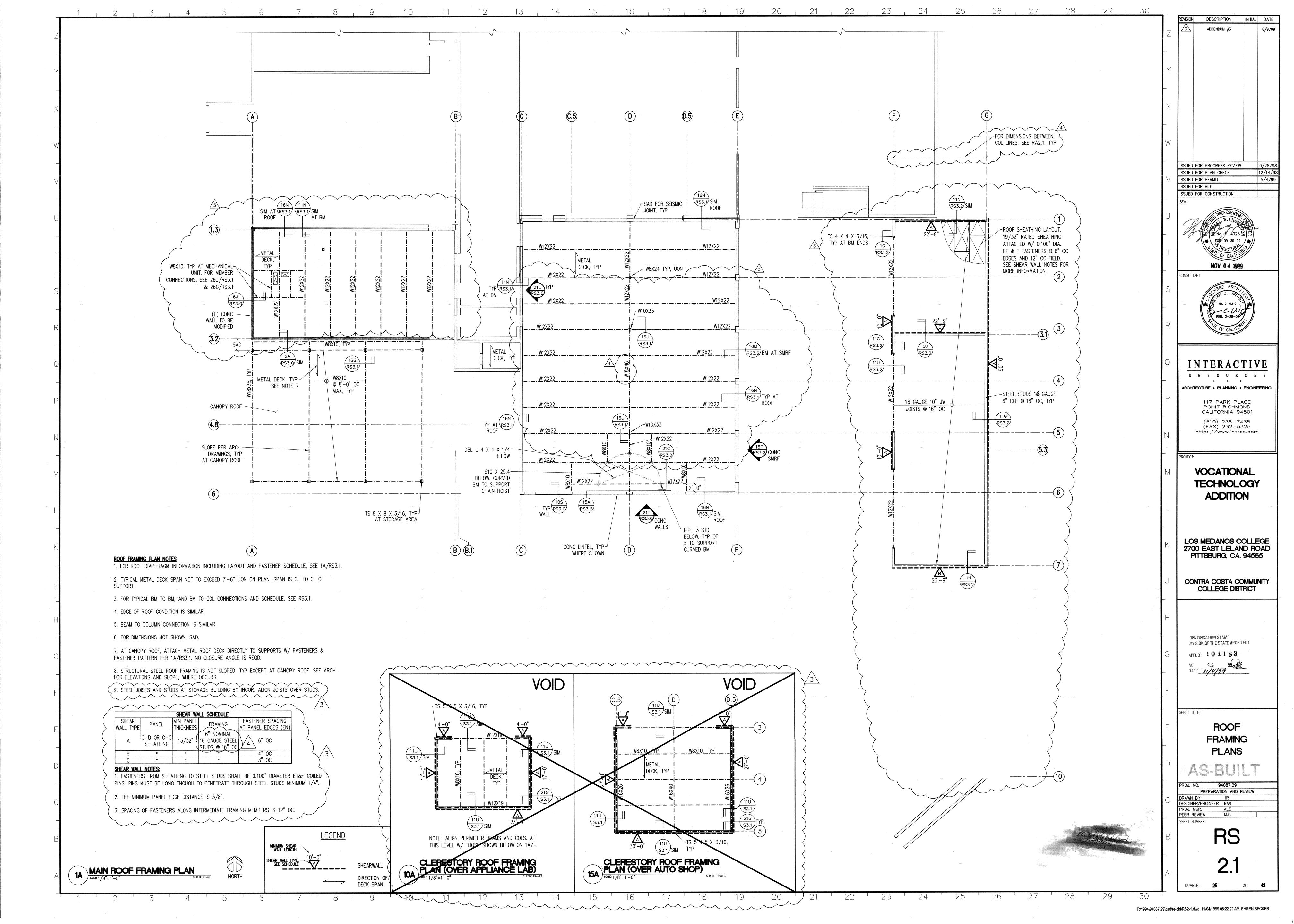


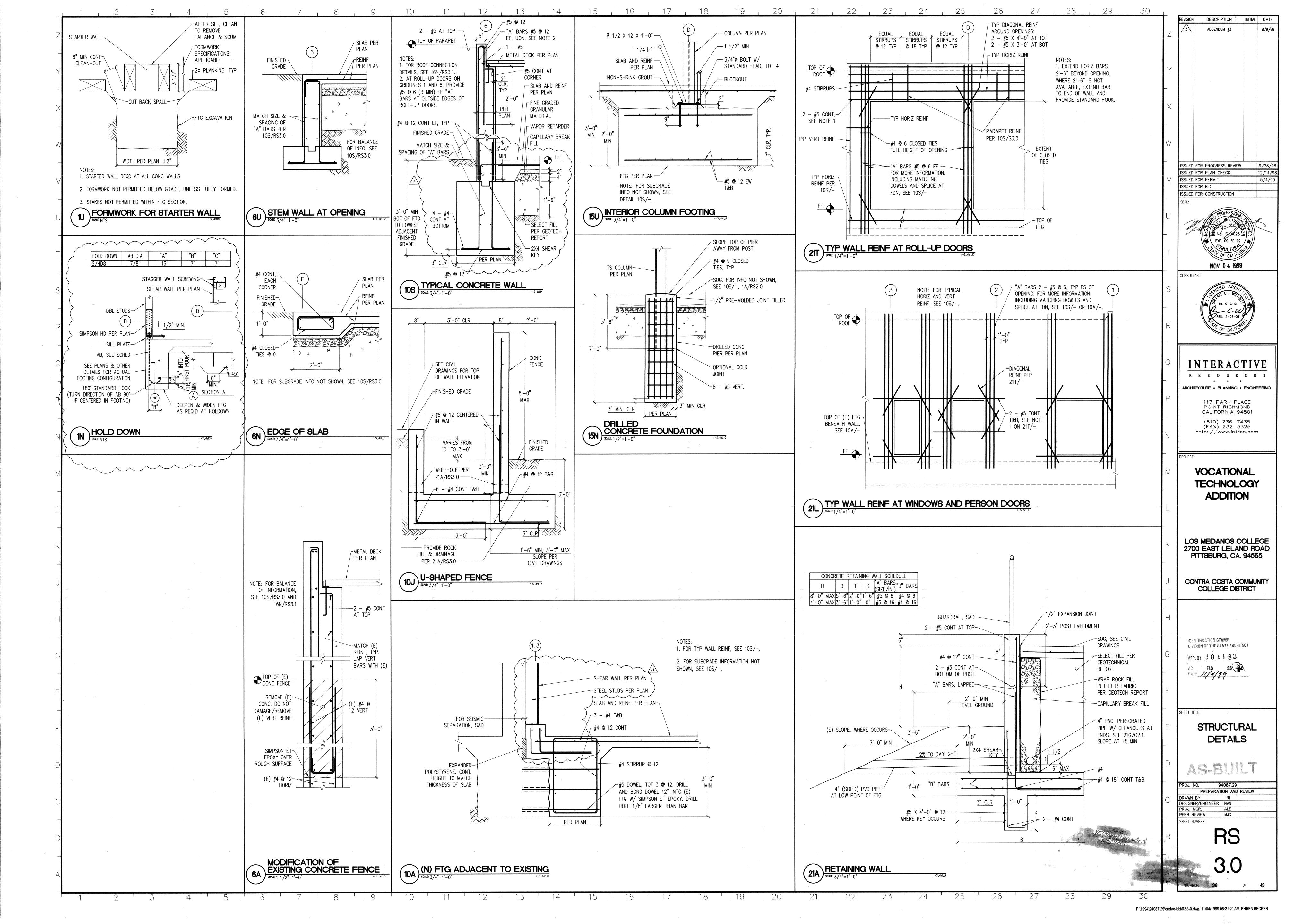


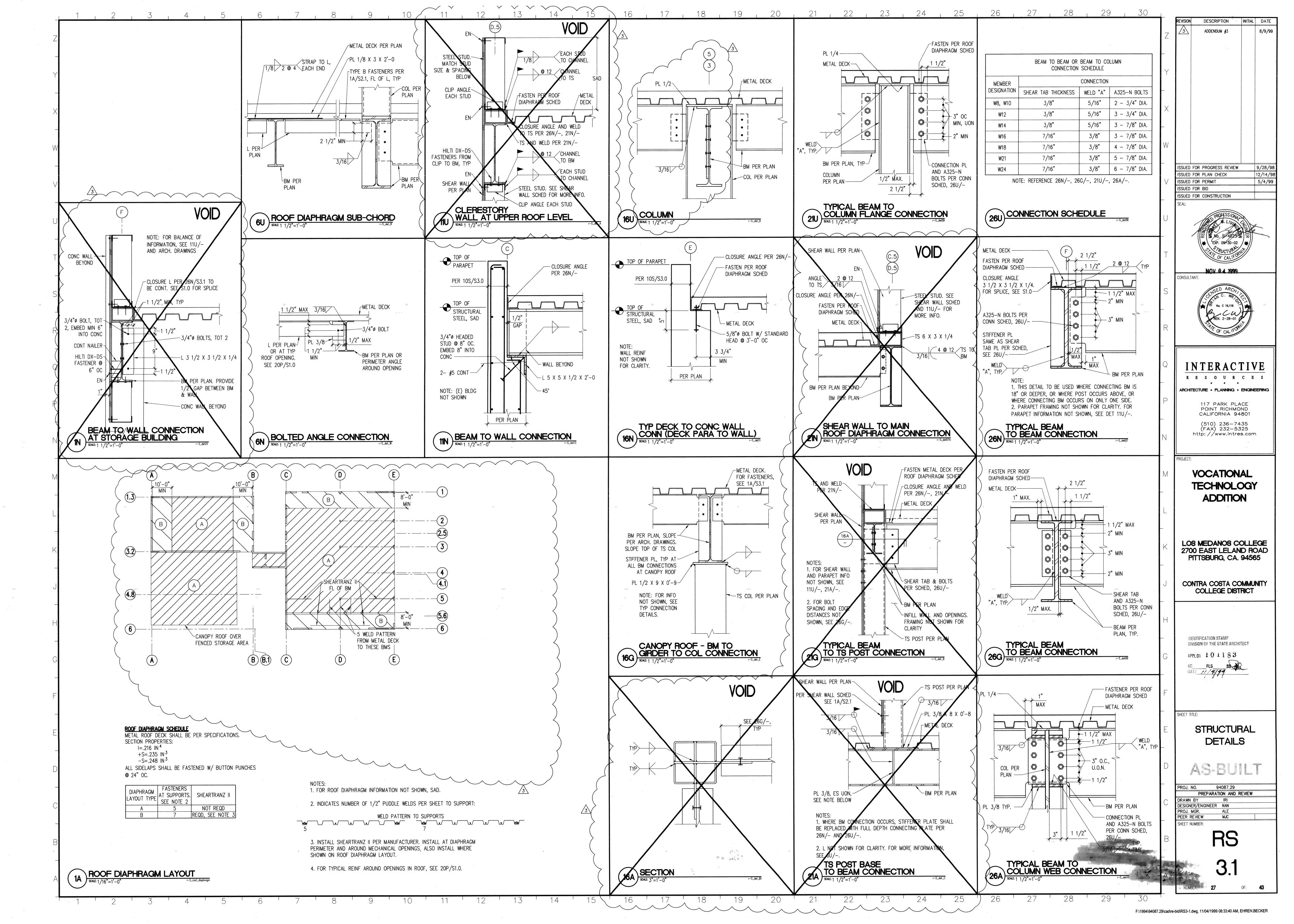


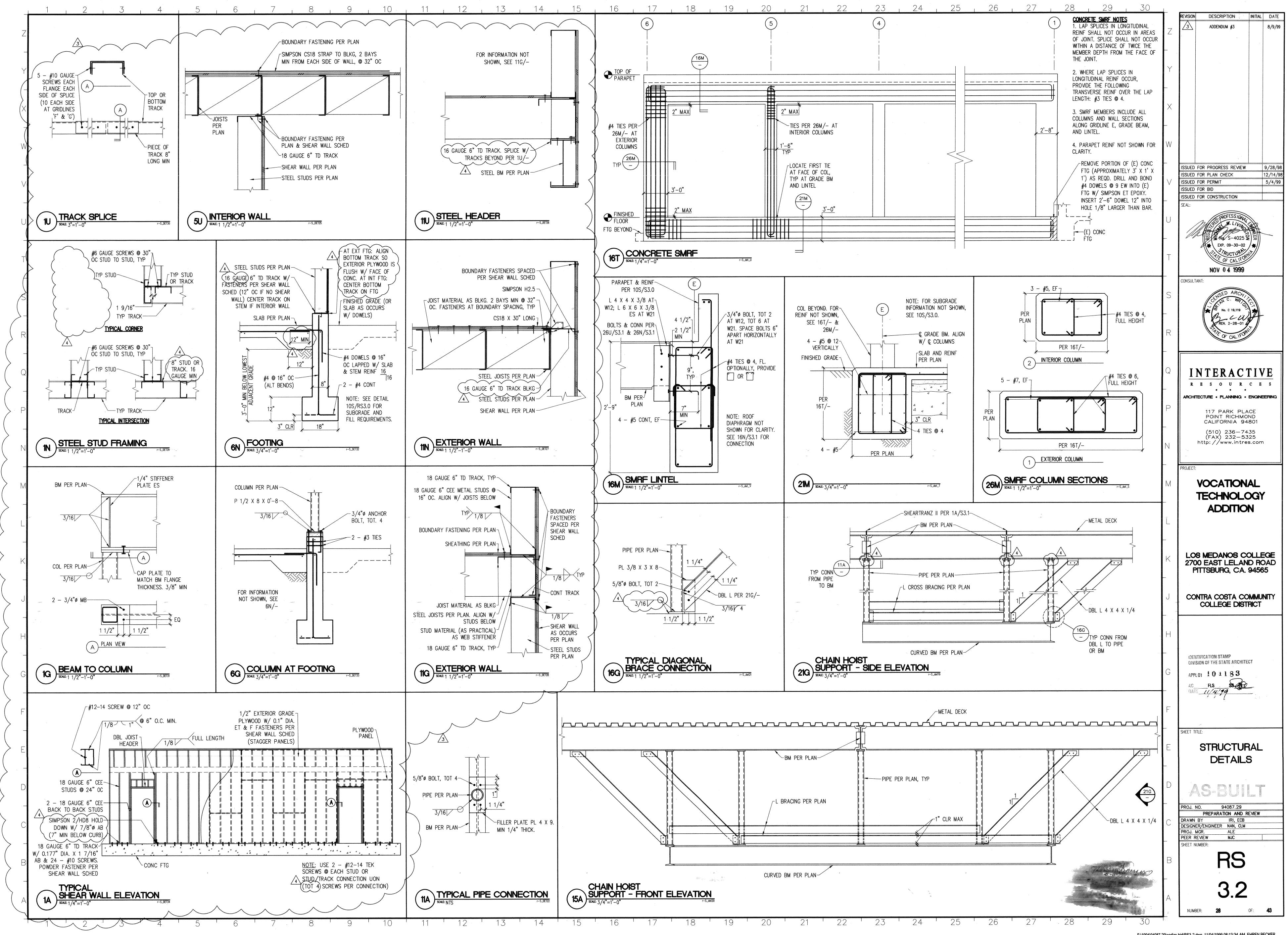












PROOF TESTS FOR EXPANSION ANCHORS REFERENCE IR 26-6 (9/89)

TEST VALUES HARDROCK OR LIGHTWEIGHT CONCRETE LOAD TORQUE LOAD (LBS) (FT-LBS) (LBS)

1100 2000 2300 3700 5800

- ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE SHELL CATEGORIES AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.
- APPLY PROOF TEST LOADS TO WEDGE SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE IF NOT. REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
- FOR SLEEVE/SHELL INTERNALLY THREADED CATEGORIES. VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURES. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE FIXTURE(S) PRIOR TO TESTING
- REACTION LOADS FROM TEST FIXTURES MAY ME APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURE(S).
- 5. SHELL TYPE ANCHORS SHOULD BE TESTED AS FOLLOWS: VISUALLY INSPECT 25% FOR FULL EXPANSION AS EVIDENCED BY THE LOCATION OF THE EXPANSION PLUG IN THE ANCHOR BODY. PLUG LOCATION OF A FULLY EXPANDED ANCHOR SHOULD BE AS RECOMMENDED BY THE MANUFACTURER. OR, IN THE ABSENCE OF SUCH RECOMMENDATION, AS DETERMINED ON THE JOB SITE FOLLOWING THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND PROOF LOAD 5% AS INDICATED IN THE TABLE ABOVE, BUT NOT LESS THAN THREE ANCHORS PER DAY FOR EACH DIFFERENT PERSON OR CREW INSTALLING ANCHORS, OR TEST 50% OF THE
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

INSTALLED ANCHORS PER 1925.4.

- TORQUE TEST VALUES FOR SHELL TYPE ANCHORS ARE OMITTED DUE TO A LACK OF DATA, TORQUE TESTING CAN OCCUR ON AN INDIVIDUAL BASIS WHEN TEST PROCEDURES ARE SUBMITTED AND APPROVED BY THE ENFORCEMENT AGENCY. TABULATED VALUES MAY BE FORTHCOMING ONCE THE ENFORCEMENT AGENCY HAS MORE DATA TO EVALUATE THE FEASIBILITY OF STANDARD TORQUE VALUES.
- 8. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS: HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. FOR WEDGE AND SLEEVE TYPE ANCHORS, A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
- TORQUE WRENCH METHOD: THE APPL ICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING, LIMITS: WEDGE OR SLEEVE TYPE: ONE HALF— (1/2) TURN OF THE NUT. ONE—OUARTER (1/4)
- TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.

TURN OF THE NUT FOR THE 3/8 IN. SLEEVE ANCHOR ONLY.

PLUMBING GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (1995 CPC).
- FURNISH ALL LABOR, MATERIALS. TRANSPORTATION, AND PERFORM ALL REQUIRED OPERATIONS TO PROVIDE COMPLETE AND OPERABLE PLUMBING SYSTEM, IN ACCORDANCE WITH THE FULL INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS AND PER STANDARD TRADE PRACTICES.
- NO PRODUCT WILL BE ACCEPTED ON THE JOB SITE WITHOUT PRIOR APPROVAL BY THE ARCHITECT. THE CONTRACTOR SHALL SUBMIT CATALOG SHEETS OF ALL PLUMBING
- WHERE PIPING OR EQUIPMENT ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWING,. THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCH/STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.
- ALL FLOOR DRAINS, FLOOR SINKS AND WASTE RECEPTORS SHALL BE PROVIDED WITH A TRAP PRIMER AND CONNECT TO A P-TRAP AND VENT.
- HORIZONTAL DRAINAGE PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AND A UNIFORM SLOPE OF NOT LESS THAN ONE FOURTH (1/4) OF AN INCH PER FOOT OR TWO (2) PERCENT TOWARD THE POINT OF DISPOSAL.
- CLEANOUTS SHALL BE PLACED AS SHOWN ON DRAWINGS AND SET FLUSH WITH ADJACENT FINISHED SURFACE.
- 8. ALL INDIRECT WASTE LINES SHALL DRAIN INTO WASTE SYSTEM AND SHALL BE INSTALLED WITH A 1" AIR GAP.
- GRADE HORIZONTAL GAS PIPING TOWARDS LOW POINTS OR RISERS AND PROVIDE DRIP LEGS AT BOTTOM OF RISERS AND LOW POINTS WITH TEE, NIPPLE, AND CAP TAKE OFF BRANCHES SHALL BE FROM TOP OR SIDE OF HORIZONTAL PIPING. USE RIGHT AND LEFT COUPLINGS ON PIPING. USE REDUCING FITTINGS WHERE PIPES REDUCE IN SIZE. BUSHINGS ARE NOT ACCEPTABLE.
- 10. THESE DRAWINGS ARE DIAGRAMMATIC AND NO ATTEMPT HAS BEEN MADE TO SHOW ALL OFFSETS OR FITTINGS. THE PLUMBING CONTRACTOR SHALL INSTALL A COMPLETE PLUMBING SYSTEM PER LATEST EDITION OF UPC AND STANDARD TRADE PRACTICE.
- PIPES IN WALLS. STUD PARTITIONS CONTAINING PLUMBING, HEATING, OR OTHER PIPES SHALL BE SO FRAMED AND THE JOISTS UNDERNEATH SO SPACED AS TO GIVE PROPER CLEARANCE FOR THE PIPING. WHERE A PARTITION CONTAINING SUCH PIPING RUNS PARALLEL TO THE FLOOR JOISTS, THE JOISTS UNDERNEATH SUCH PARTITIONS SHALL BE DOUBLED AND SPACED TO PERMIT THE PASSAGE OF SUCH PIPES AND SHALL BE BRIDGED. WHERE PLUMBING, HEATING OR OTHER PIPES ARE PLACED IN OR PARTLY IN A PARTITION. NECESSITATING THE CUTTING OF THE SOLES OR PLATES, A METAL TIE NOT LESS THAN 1/8 INCH THICK AND 1-1/2 INCHES WIDE SHALL BE FASTENED TO THE PLATE ACROSS AND TO EACH SIDE OF THE OPENING WITH NOT LESS THAN FOUR 16D NAILS.
- 12. CUTTING AND NOTCHING. NO HOLES OR NOTCHES WILL BE ALLOWED IN ANY EXTERIOR OR STRUCTURAL WALLS WITHOUT PRIOR APPROVAL FRCM ARCHITECT AND THE OFFICE OF THE STATE ARCHITECT.
- 13. BORED HOLES. A HOLE NOT GREATER IN DIAMETER THAN 33 PERCENT OF THE STUD WIDTH MAY BE BORED IN ANY WOOD STUD. BORED HOLES NOT EXCEEDING ONE-THIRD OF THE STUD WIDTH SHALL BE NEATLY BORED AND SHALL BE LOCATED IN THE CENTER OF THE MEMBER BEING BORED. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.
- 14. PROVIDE ALL TRIM NECESSARY FOR THE CORRECT OPERATION OF ALL FIXTURES
- 15. ALL SOIL AND WASTE LINES WITHIN BUILDINGS SHALL BE CAST IRON TO A POINT AT LEAST 5'0" OUTSIDE OF BUILDINGS.
- 16. ALL EXTERIOR LINES AND PIPING, WHERE NOT ESTABLISHED BY NOTED GRADES SHALL HAVE A MINIMUM COVER OF 24" FROM CROWN TO FINISH GRADE.

MECH-1

17. INSULATE ALL CONDENSATE DRAIN LINES IN INTERIOR BLDG. SPACES.

HVAC GENERAL NOTES

- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS (C.C.R.) AND THE 1995 CMC EDITION WITH CALIFORNIA STATE AMENDMENTS.
- FURNISH ALL LABOR MATERIALS. TRANSPORTATION. AND PERFORM ALL REQUIRED OPERATIONS TO PROVIDE COMPLETE AND OPERABLE MECHANICAL SYSTEM, IN ACCORDANCE WITH THE FULL INTENT AND MEANING OF THE DRAWINGS AND SPECIFICATIONS AND PER STANDARD TRADE PRACTICES.
- ALL LOCATIONS OF DUCTWORK AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE, VARY RUNS OR SHAPE OF DUCTWORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS REQUIRED BY THE ARCHITECT.
- 4. DUCT DIMENSIONS SHOWN ARE INTERNAL (NET CLEAR OF ACOUSTICAL LINING). NO PRODUCT WILL BE ACCEPTED ON THE JOB SITE WITHOUT PRIOR APPROVAL BY

THE ARCHITECT. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG

SHEETS OF ALL MECHANICAL EQUIPMENT AND MATERIALS THAT THE CONTRACTOR

- EXPECTS TO USE. FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS AS REQUIRED TO SEAL WEATHER TIGHT.
- FILTERS, ELECTRIC MOTORS, ETC. CONTRACTOR SHALL PROVIDE ACCESS TO PANELS WHERE REQUIRED. 8. COORDINATE ALL SYSTEM SHUT DOWNS WITH LMC MAINTENANCE DEPARTMENT.

ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT ACCESS TO CONTROLS,

- 9. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR
- 10. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR ALL EQUIPMENT PLATFORM AND CURB LOCATIONS.

ACCESS TO ALL DAMPERS AND EQUIPMENT.

- MECHANICAL CONTRACTOR SHALL PROVIDE BIRD SCREENS AT ALL INTAKE AND EXHAUST OPENINGS.
- 12. WHERE EQUIPMENT ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCH/STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.

EQUIPMENT ANCHORAGE NOTES

IN ACCORDANCE WITH TITLE 24, SECTION 1630A.2 AND TABLE NO. 16A-O, DETAILS SHALL BE PROVIDED FOR THE SEISMIC ANCHORAGE OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT. ANCHORAGE DETAILS SHALL BE BASED UPON APPROPRIATE FOR EQUIPMENT WEIGHING 400 POUNDS OR MORE ANCHORAGE DETAILS AND APPROPRIATE DESIGN CALCULATIONS SHALL BE SUBMITTED AS PART OF THE MECHANICAL AND ELECTRICAL DRAWING. "DEFERRED APPROVAL" ITEMS WILL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED BT THE PLAN CHECK SUPERVISOR.

EXCEPTION: ATTACHMENTS OF EQUIPMENT WEIGHING LESS THAN 400 POUNDS AND SUPPORTED DIRECTLY ON THE FLOOR OR ROOF STRUCTURE, FURNITURE OR TEMPORARY OR MOVABLE EQUIPMENT AND EQUIPMENT WEIGHING LESS THAN 20 POUNDS THAT IS SUPPORTED BY VIBRATION DEVICES SUSPENDED FROM THE ROOF, WALL OR FLOOR NEED NOT BE DETAILED ON THE PLANS PROVIDED THE FOLOWING NOTES ARE INCLUDED ON THE MECHANICAL AND ELECTRICAL PLANS.

> ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING

FIXED EQUIPMENT ON GRADE 20% OF OPERATING WEIGHT EMERGENCY POWER EQUIPMENT ON GRADE 30% OF OPERATING WEIGHT EMERGENCY POWER EQUIPMENT ON STRUCTURE 40% OF OPERATING WEIGHT

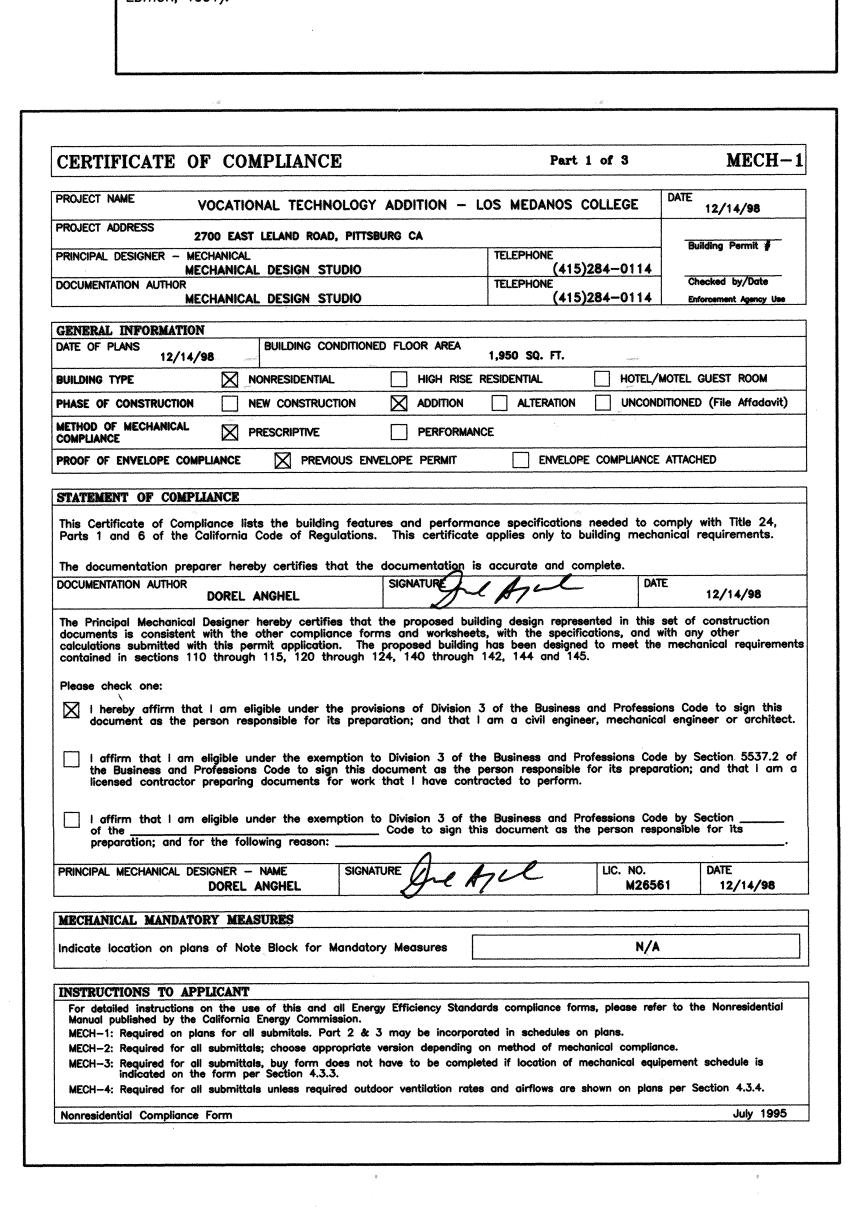
SIMULTANEOUS VERTICAL FORCE - USE 1/3 x HORIZONTAL FORCE. FOR FLEXIBLY MOUNTED EQUIPMENT SEE TITLE 24, SECTION 1630A.2

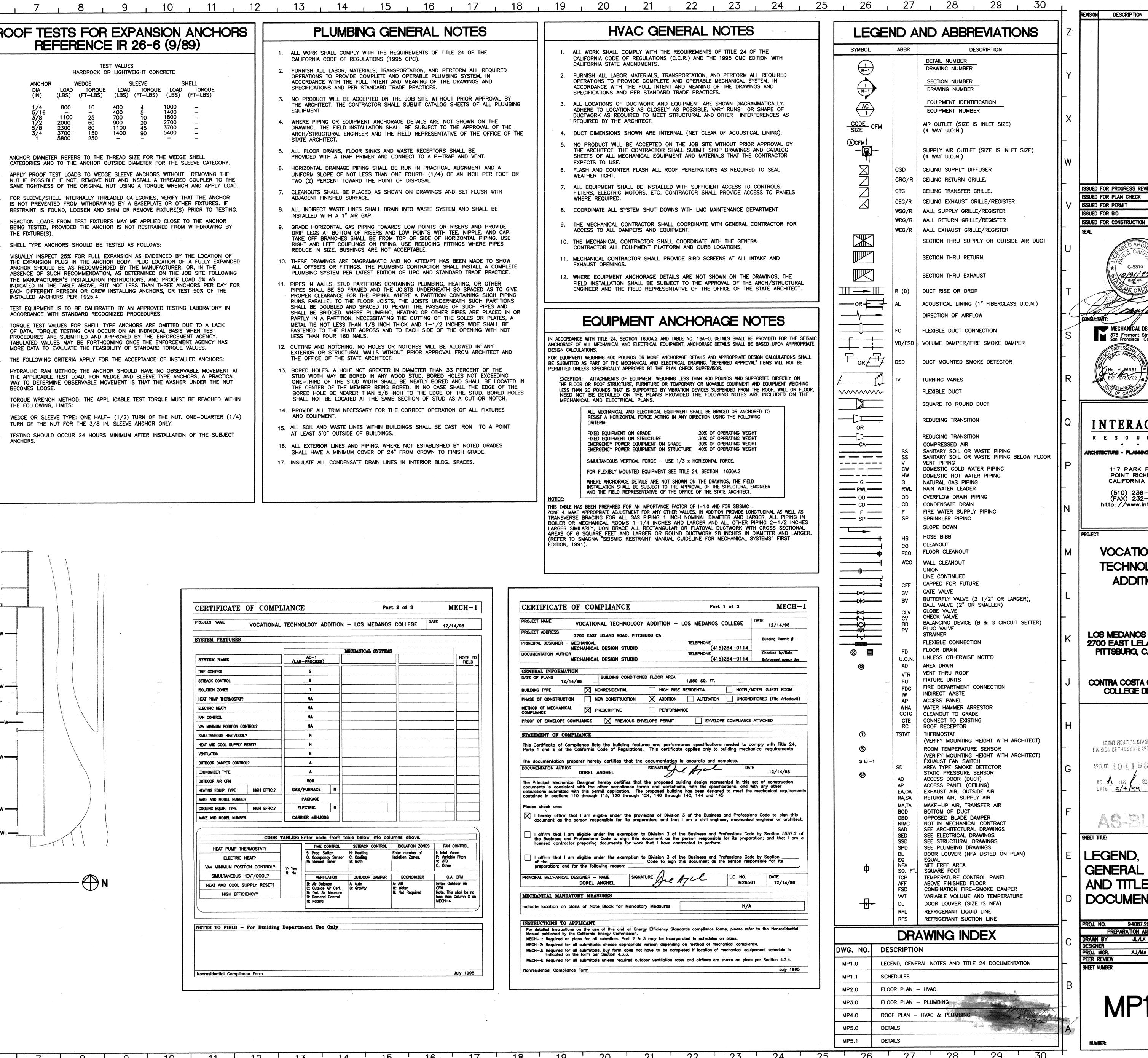
WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT

NOTICE: THIS TABLE HAS BEEN PREPARED FOR AN IMPORTANCE FACTOR OF I=1.0 AND FOR SEISMIC ZONE 4. MAKE APPROPRIATE ADJUSTMENT FOR ANY OTHER VALUES. IN ADDITION PROVIDE LONGITUDINAL AS WELL AS TRANSVERSE BRACING FOR ALL GAS PIPING 1 INCH NOMINAL DIAMETER AND LARGER, ALL PIPING IN BOILER OR MECHANICAL ROOMS 1-1/4 INCHES AND LARGER AND ALL OTHER PIPING 2-1/2 INCHES LARGER SIMILARLY. UON BRACE ALL RECTANGULAR OR FLATOVAL DUCTWORK WITH CROSS SECTIONAL AREAS OF 6 SQUARE FEET AND LARGER OR ROUND DUCTWORK 28 INCHES IN DIAMETER AND LARGER. (REFER TO SMACNA "SEISMIC RESTRAINT MANUAL GUIDELINE FOR MECHANICAL SYSTEMS" FIRST

CERTIFICATE OF COMPLIANCE Part 2 of 3 OIL SEPARATOR

SYSTEM NAME AC-1 (LAB-PROCESS) TIME CONTROL SETBACK CONTROL ISOLATION ZONES HEAT PUMP THERMOSTAT? ELECTRIC HEAT? FAN CONTROL VAV MINIMUM POSITION CONTROL? SIMULTANEOUS HEAT/COOL? HEAT AND COOL SUPPLY RESET? N VENTILATION B OUTDOOR DAMPER CONTROL? ECONOMIZER TYPE OUTDOOR AIR CFM HEATING EQUIP. TYPE HIGH EFFIC.? MAKE AND MODEL NUMBER CORNER 48HJOOS CODE TABLES: Enter code from table below into columns above.	NOTE
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MAKE AND MODEL NUMBER CARRIER 48HJ008	
ELECTRIC HEAT? VAV MINIMUM POSITION CONTROL? S: Prog. Switch 0: Occupancy Sensor M: Manual Timer C: Cooling B: Both Fig. 1: Inlet Vo. VFD 0: Other Y: Yes N: No VENTILATION OUTDOOR DAMPER ECONOMIZER O.A B: Air Balance A: Auto A: AiR Enter number of Is Inlet Vo. VFD O: Other Is Inlet Vo. VFD O: Other D: Ventilation A: Air Enter number of Is Inlet Vo. VFD O: Other Is Inlet Vo. VFD O: Other VENTILATION OUTDOOR DAMPER ECONOMIZER O.A	iable Pitch
UCH EFFICIENCY2 M: Out. Air Measure N: Water CFM N: Not Required Note: This	This shall be nan Column (-4.





ISSUED FOR PROGRESS REVIEW 12/14/98 05/04/9

MECHANICAL DESIGN STUDIO inc 375 Fremont Street Suite 250 San Francisco California 94105 JOB # 8035.00

INTERACTIVE R E S O U R C E S ARCHITECTURE . PLANNING . ENGINEETING

117 PARK PLACE POINT RICHMOND CALIFORNIA 94801 (510) 236-7435 (FAX) 232-5325 http://www.intres.com

VOCATIONAL TECHNOLOGY ADDITION

LOS MEDANOS COLLEGE 2700 EAST LELAND ROAD PITTSBURG, CA. 94565

CONTRA COSTA COMMUNITY COLLEGE DISTRICT

identification stamp DIVISION OF THE STATE ARCHITECT APPLOI 101183

GENERAL NOTES AND TITLE 24 **DOCUMENTATION**

PREPARATION AND REVIEW

PARTIAL SITE PLAN

SCALE: 1/32"=1'-0"

		MISCELLA	ANEOUS E	QUIPMENT SCHEDULE
CODE	MANUFACTURER	MODEL	SERVICE	DESCRIPTION
UH 1,2,3,4	REZNOR	VENTURION BE-100	NEW AUTO SHOP	GAS FIRED UNIT HEATER, CALIFORNIA AND AGA APPROVED, 100,000 BTUH INPUT/80,000 BTUH OUTPUT, 1/3 HP, 120V/1 PH, WEIGHT: 150 LBS, TWO STAGE GAS CONTROL (50% LOW FIRE), MANUAL SUMMER/WINTER SWITCH, BELT GUARD AND BLOWER INLET GUARD, TWO STAGE THERMOSTAT, THERMOSTAT GUARD WITH LOCKING COVER. UNIT HEATERS OPERATION INTERLOCKED WITH ROLL—UP DOOR OPERATION, BY DIVISION 16. (WHEN ROLL—UP DOORS ARE OPEN HEATERS AUTOMATICALLY SHUT OFF).
				$\frac{3}{3}$
			~~~	
$\begin{pmatrix} A \\ 1 \end{pmatrix}$	SNAP-ON	BRA25312HRS440 (STOCK NO.)	SHOP COMPRESSED AIR	AIR COMPRESSOR, 100 CFM, 125 PSI, 25 HP, 460V, 3ø, 60 HZ, OPER. WEIGHT 1500 LBS.

			phopostaneous descriptions and all of the annual fi		E	EXHAUS	TF	AN SCH	HEDULE			
MARK	MFR	MODEL	СҒМ	RPM	ESP IN, W.C.	TYPE		ECTRICAL VOLT/PH/HZ	SERVICE	LOCATION	WEIGHT LBS	REMARKS
												3
EF 2	GREENHECK	GB-200-7	4,000	860	0.375	MUSHROOM	3/4	208V/1ø/ 60HZ	NEW AUTO SHOP	ROOF	150	13
EF 3	GREENHECK	GB-200-7	4,000	860	0.375	MUSHROOM	3/4	208V/1ø/ 60HZ	NEW AUTO SHOP	ROOF	150	13
EF 4	_	_	_	_	_	_		_	_	-		NOT USED
EF 5	GREENHECK	GB-130-3	1,850	1440	0.375	MUSHROOM	1/2	120V/1ø/ 60HZ	ELEC. ROOM	ROOF	80	13
EF 6	GREENHECK	GB-80-4	500	1230	0.25	MUSHROOM	1/4	120V/1ø/ 60HZ	NEW AUTO SHOP	CLEARSTORY ROOF	30	13
EF 7	GREENHECK	GB-80-4	500	1230	0.25	MUSHROOM	1/4	120V/1ø/ 60HZ	NEW APPLIANCE LAB	CLEARSTORY ROOF	30	13
EF 8	GREENHECK	SP-7	100	950	0.25	CEILING EXHAUST	1/8	120V/1ø/ 60HZ	RESTROOM STORAGE	CEILING	20	

1) PROVIDE WITH ROOF CURB, GRAVITY BACKDRAFT DAMPER, FACTORY INSTALLED DISCONNECT SWITCH.

2 PROVIDE WITH LIFTING LUGS, LEVEL 2 PERFORMANCE.

3 MANUAL ON/OFF SWITCH OPERATED.

				<b>/</b>	AIR OUT	LET SCHEDULE MFR: TITUS (U.O.N.)
CODE	MODEL	SIZE	NECK	FINISH	SERVICE	DESCRIPTION
CSD-1	PSS	24"X24" MODULE	SEE PLANS	# 25 WHITE	SUPPLY	STAR PATTERN WITH PERFORATED FACE FOR T-BAR MOUNTING CEILING
CRG-1/ CEG-1	PAR	24"X24" MODULE	SEE PLANS	# 25 WHITE	RETURN/ EXHAUST	PERFORATED FACE FOR T-BAR MOUNTING CEILING, FOR NECK SIZES LARGER THAN 16"Ø. PROVIDE 22"X22" NECK WITH GSM PLENUM WITH OUTLET SIZE AS SHOWN ON THE FLOOR PLANS
CRG-2/ CEG-2	PAR	24"X24" MODULE	SEE PLANS	# 25 WHITE	RETURN/ EXHAUST	PERFORATED FACE FOR SURFACE MOUNTING CEILING, FOR NECK SIZES LARGER THAN 16"Ø. PROVIDE 22"X22" NECK WITH GSM PLENUM WITH OUTLET SIZE AS SHOWN ON THE FLOOR PLANS
WSR-1	300RL	SEE PLANS	_	# 25 WHITE	SUPPLY	SIDE WALL STEEL SUPPLY REGISTER WITH AG-15 OPPOSED BLADE DAMPER, 3/4" BLADE SPACING, DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO THE LONG DIMENSION
WSR-2	300FL	SEE PLANS	· —	# 25 WHITE	SUPPLY	SIDE WALL ALUMINUM SUPPLY REGISTER WITH AG-15 OPPOSED BLADE DAMPER, 3/4" BLADE SPACING, DOUBLE DEFLECTION, INDIVIDUALLY ADJUSTABLE BLADES, FRONT BLADES PARALLEL TO THE LONG DIMENSION
WRR-1/ WER-1	350RL	SEE PLANS	<u> </u>	# 25 WHITE	RETURN/ EXHAUST	SIDE WALL STEEL RETURN / EXHAUST REGISTER WITH AG-15 OPPOSED BLADE DAMPER, 3/4" BLADE SPACING, 35° FIXED DEFLECTION, BLADES PARALLEL TO THE LONG DIMENSION
WRR-2/ WER-2	350FL	SEE PLANS	_	# 25 WHITE	RETURN/ EXHAUST	SIDE WALL ALUMINUM RETURN / EXHAUST REGISTER WITH AG-15 OPPOSED BLADE DAMPER, 3/4" BLADE SPACING, 35° FIXED DEFLECTION, BLADES PARALLEL TO THE LONG DIMENSION
TFD-1	PAR	24"X24" MODULE	SEE PLANS	# 25 WHITE	TRANSFER	PERFORATED FACE FOR T-BAR MOUNTING CEILING, FOR NECK SIZES LARGER THAN 16"Ø. PROVIDE 22"X22" NECK WITH GSM PLENUM WITH OUTLET SIZE AS SHOWN ON THE FLOOR PLANS
CEG-3	350RL	SEE PLANS	SEE PLANS	# 25 WHITE	ELEC. RM. EXHAUST	CEILING EXHAUST GRILLE, 3/4" BLADE SPACING, 35° FIXED DEFLECTION, BLADES PARALLEL TO LONG DIMENSION.

	ISOLATOR				
EQUIPMENT	(MFR.: VIBREX)  TYPE/MODEL	SPRING DEFLECTION	SEISMIC RESIST.	ANCHORAGE DETAIL REFERENCE	REMARKS
AC-1	MIN. 3/8" THICK CONTINUOUS PAD	NA	18 GA. TIE-DOWN PL.	1/MP5.0	-
					<u>/3</u>
EF-2 THRU 7	CONTINUOUS GASKET	NA	BOLT DOWN	2/MP5.0	
UH-1 THRU 4	_	_	TIGHTENED CABLES	1/MP5.1	
A-1	RMU-EQ-RC	2"	INTEGRAL	8/MP5.0	CONTRACTOR TO VERIFY EXISTING COMPRESSOR WEIGHT AND QTY. OF SUPPORT POINTS

				SUP	PLY FAI	V	MIN.				COOLING					HEA	TING				ELECTRIC	AL					OPER	
CODE	AREA SERVED	MODEL & TYPE	COOL. TONS	CFM	ESP ("WC)	ВНР	OA (CFM)	COND	ENSER		Ε	VAPORA	ATOR			INPUT MBH	OUPUT MBH	QTY	COMPR	Accession to the Parket of the	EVAP	COND	COMB. FAN FLA	MCA	VOLT/ PHASE	EER	WT LBS	REMARKS
			1		""			ENT. DB	ENT. WB	TOTAL MBH	SENS. MBH	ENT DB	ENT WB	LVG DB	WB LVG	MON	INDIT	Q11 .	KLAY EA	LRAY CA	FAN FLA	FAN FLA	PAN FLA		ITAGE			
						$\sim$	$\sim$	<b>~</b> ~	<u>~~</u>	(2)	2				$\sim$						~~	~~~	~~	~~				
AC-1	NEW APPLIANCE LAB.	48HJD007	6.0	2,400	0.75	2.9	450	105	70	97.6	50.7	76.5	64	52	50	72	50	1	20.5	156.0	5.8	1.4	0.57	38.8	208/3ø/ 60HZ	11.0	1,200	345
overdany, place upt little and convenience for south	, .																			3	}	$\overline{}$	~~	$\sim$				-
																								- Paris - Pari			·	
***************************************					<u></u>											<u> </u>		<u> </u>								<u></u>		
NOT	$\simeq$	CAPACITY AT AR			-17/01/																							
	$\simeq$	MANCE GIVEN INC WITH FACTORY II	•								VER COMP	PATIBLE	DDC C	CONTROL	S.													
	$\simeq$	DISCHARGE UNIT																										

CODE	DESCRIPTION	WASTE/VENT	CW/HW	G	CA	REMARKS
1	ICE MAKER	3"	3/4" -			1 2 3
2	ICE MAKER	3"	3/4"	_		1 2 3
3	ICE MAKER	3"	3/4"		_	1 2 3
4	REACH-IN FREEZER	3"	-/-		_	2 3
5	REACH-IN REFRIG.	3"	-/-		_	2 3
6	WALK-IN FREEZER	3"	-/-		_	2 3
7	FURNACE & AC	3"	-/-	3/4"	-	1 2 3 75,000 BTU/HR
8	FURNACE & AC	3"		3/4"		1 2 3 75,000 BTU/HR
9	FURNACE & AC	3"	-/-	3/4"		1 2 3 75,000 BTU/HR
10	FURNACE & AC	3" _	-/-	3/4"	——————————————————————————————————————	1 2 3 75,000 BTU/HR
11	WORK BENCH	-/-	_/_	(2) 3/4"	(2) 3/4"	1 3 5 50,000 BTU/HR
12	WORK BENCH	-/-		(2) 3/4"	(2) 3/4"	1 3 5 50,000 BTU/HR
17	BEAD BLASTER	- /-	-/-		1/2"	1 4
15	BENCHES	-/-	-/-		1/2"	1 4
22	DYNAMOMETER	3" -	-/-		1/2"	1 4
23	SNAP-ON ALIGNMENT RACK	- "			1/2"	1 4
~~		~	-		_	3
		-/-	/_	·	_ ·	}
WC-1	WATER CLOSET (ADA COMPLIANT)	4" 2"	1-1/4"	-	-	AMERICAN STANDARD 2257.103 "AFFWALL", F VALVE SLOAN ROYAL #111, 1.6 GPF, SEAT OLSONITE #95.
LAV-1	LAVATORY (ADA COMPLIANT)	2" 1-1/2"	3/4"	<del>-</del>		AMERICAN STANDARD 0356.015 "LUCERNE" W HUNG, FAUCET "HERITAGE" 6802.372V, 8" OI CENTERS, GRID DRAIN.
NOTES	end		i i i i i i i i i i i i i i i i i i i	⊕.i		
1 2	VALVED CONNECTION. INDIRECT WASTE TO FUNNEL DRAIN.	5 COMF	$\sim\sim$	PRESSURE R	REGULATOR (OU	TLET PRESSURE 80 PSI).

CODE	FLOOR FINISH	ZURN FIG. NUMBER	CONN.	TOP GR. MATERIAL	GRATE SIZE	REMARKS			
FD-1	1	Z-415	2"	NICKEL BRONZE	7"ø	WITH TYPE "E" BODY STRAINER AND FUNNEL			
FD-2	1	Z-511	4"	NICKEL BRONZE	9"ø	WITH SEDIMENT BUCKET, AND TRAP PRIMER CONNECTION.			
FD-3	1	Z-511	4"	NICKEL BRONZE	9"ø	WITH SEDIMENT BUCKET			
AD-1	1	Z-511	4"	NICKEL BRONZE	9"ø	WITH SEDIMENT BUCKET			
RD-1	· -	Z-100	3"/4"	DURA-COATED CAST IRON DOME	15"ø				
WCO	_	Z-1468	4"	STAINLESS STEEL COVER	5"/7"	NICKEL BRONZE PLUG			
FCO	1	Z-1400	4"	NICKEL BRONZE	6"ø				
GCO	_	Z-1474	4"	DURESIST COVER	9"ø	WITH INTERNAL CLEANOUT			
OD-1	_	Z-100	4"	DURA-COATED CAST IRON DOME	15"ø	WITH 2" HIGH EXTERNAL DOME			

REVISION DESCRIPTION INITIAL DATE

ADDENDUM No. 3 8/9/99

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ISSUED FOR PROGRESS REVIEW 9/28/98
ISSUED FOR PLAN CHECK 12/14/98

ISSUED FOR PROGRESS REVIEW

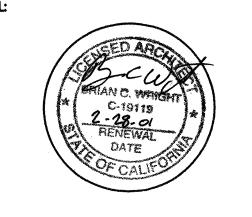
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CONTRA COSTA COMMUNITY COLLEGE DISTRICT

DENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLOT 10183

AC A FLS SSEE
DATE 1449

ASBULT

SCHEDULES

PROJ. NO. 94087.29

PREPARATION AND REVIEW

DRAWN BY JL/LK

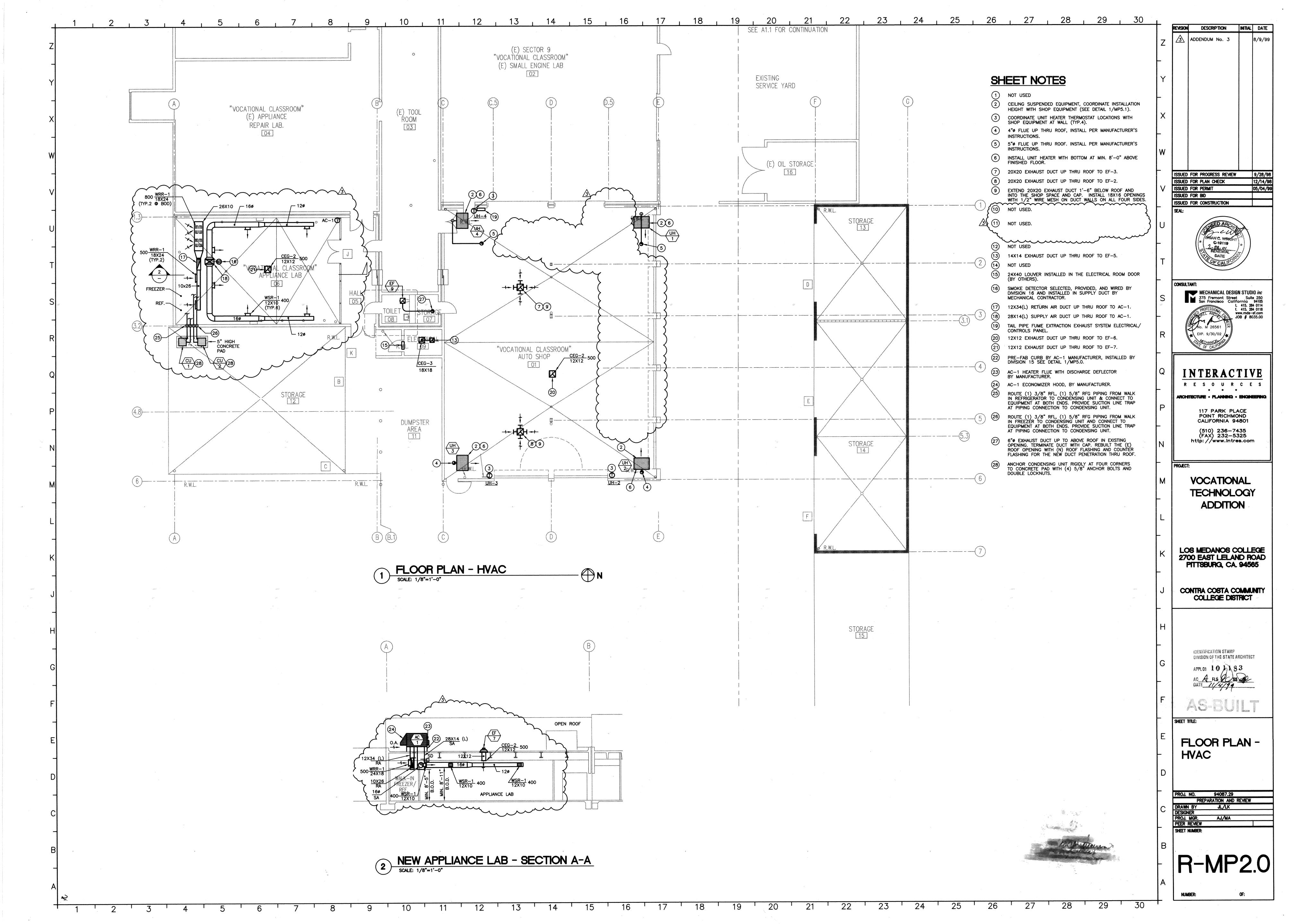
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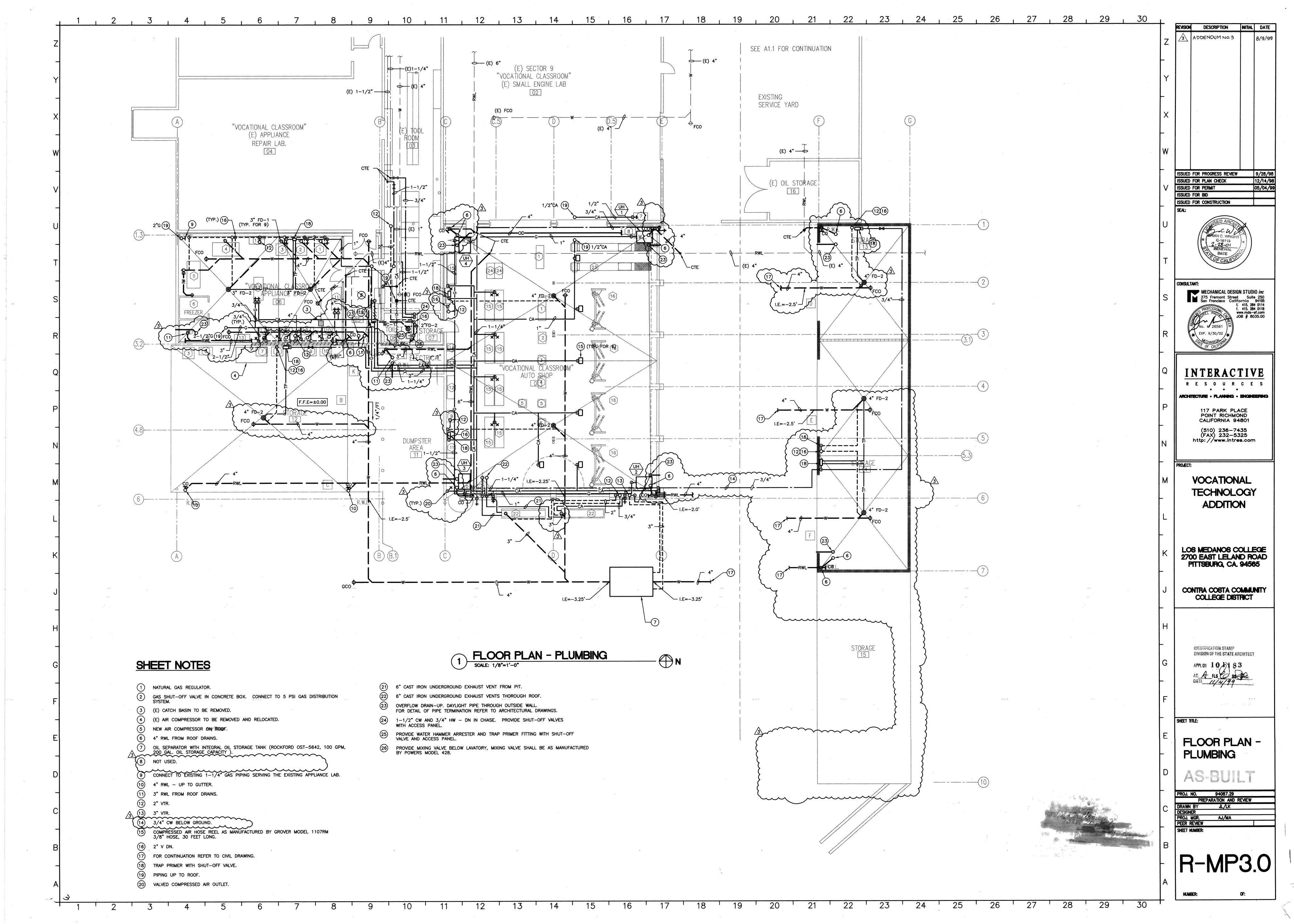
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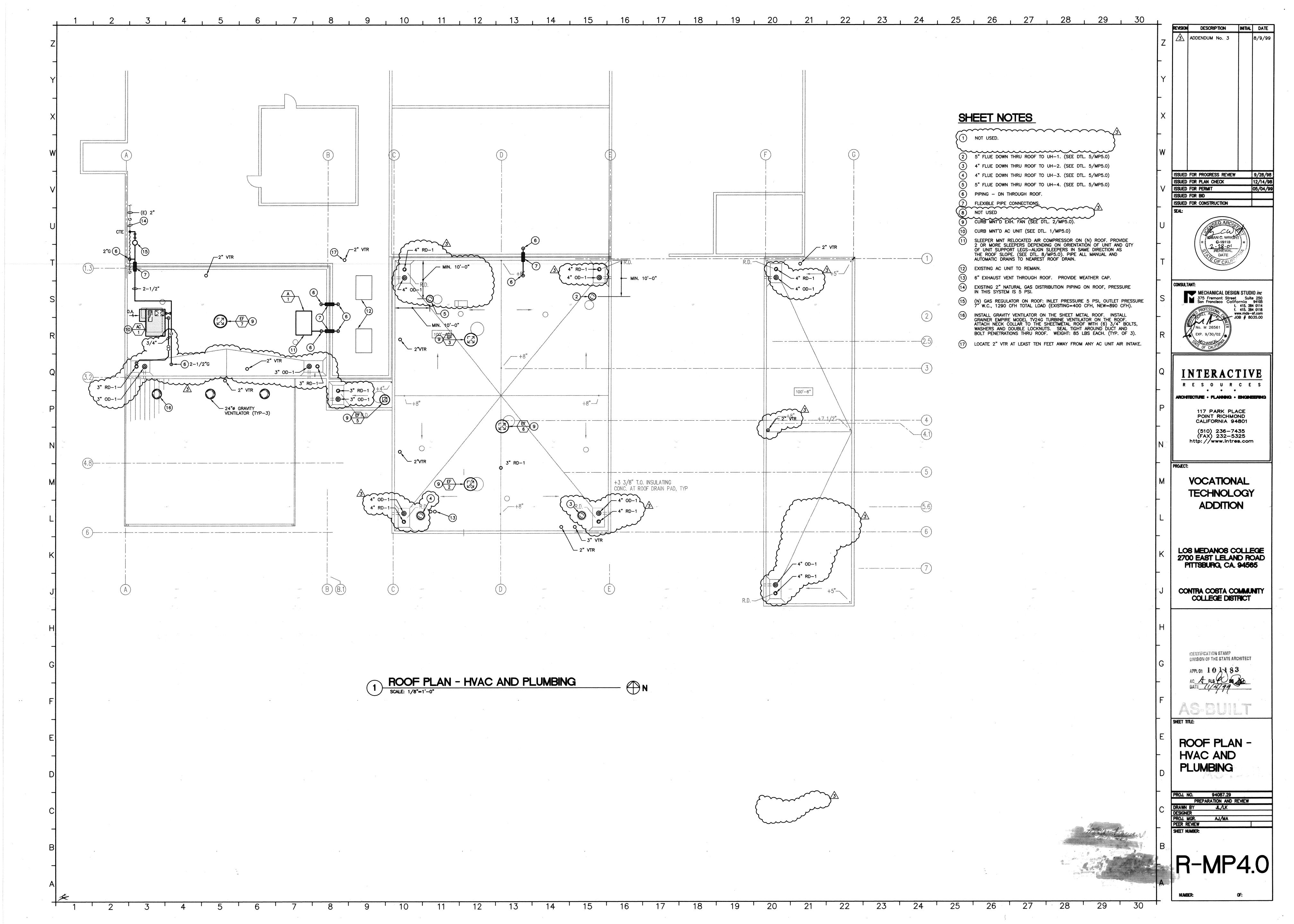
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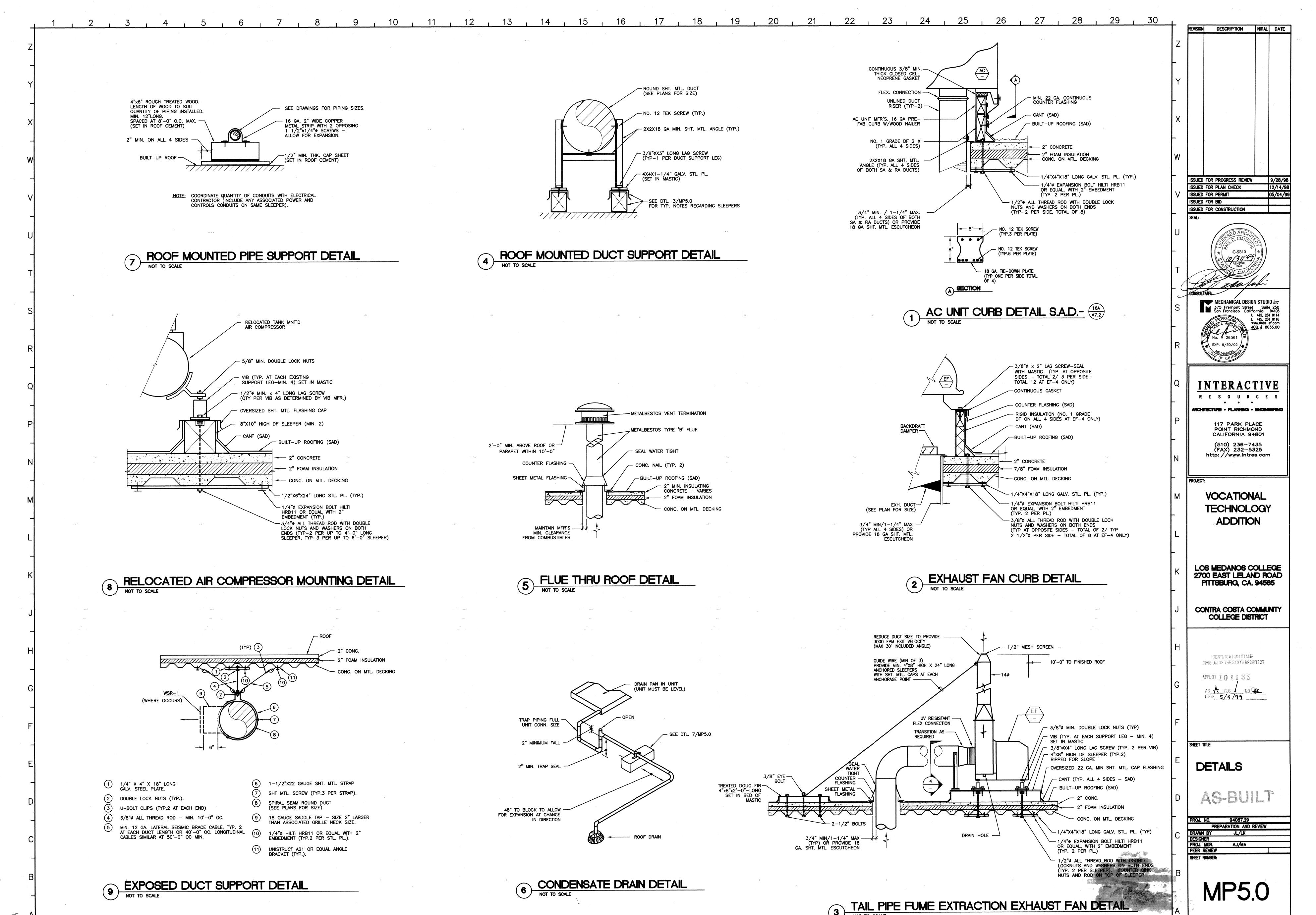
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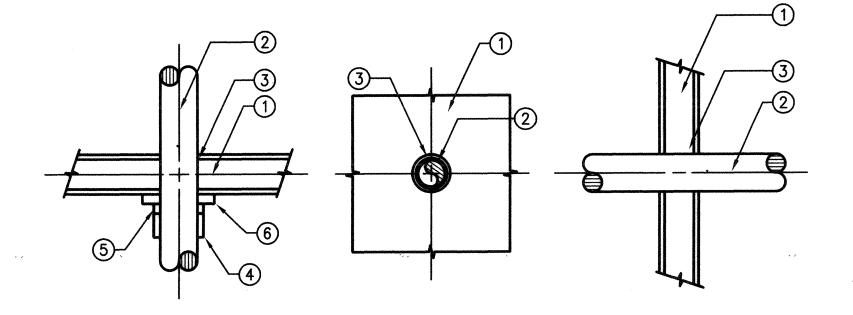
R-MP1.1











PACK SPACE BETWEEN PIPING AND PENETRATION OPENING WITH MATERIAL APPROVED BY UNDERWRITERS LABORATORIES FOR THROUGH PENETRATION FIRE STOP SYSTEMS. MATERIALS, METHODS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH UL APPROVED LISTING AND SHALL BE DESIGNED TO ACT AS A FIRESTOP AS WELL AS A COLD SMOKE, NOXIOUS GAS AND WATER SEALANT. SUBMIT LISTING NUMBERS AND DETAILS FROM UL FIRE RESISTANT DIRECTORY FOR ALL SUCH SYSTEMS TO BE USED. INSULATE PIPES 3 FEET TO EITHER SIDE OF PENETRATION WITH MATERIAL SPECIFIED IN THE UL FIRE RESISTANCE DIRECTORY IF REQUIRED TO OBTAIN THE T— AND F— RATINGS.

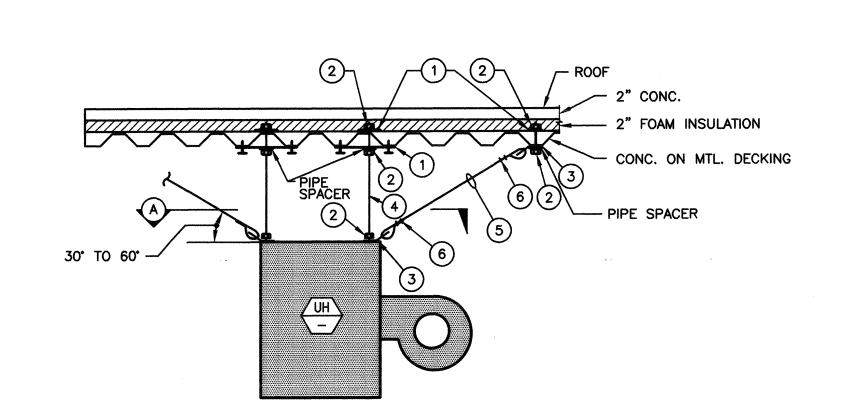
- 1 WALL AND FLOOR
- 2) PIPE OR INSULATED PIPE
- FIRE BARRIER "3M PRODUCTS INC." FIRE BARRIER CAULK CP25 WB+, CP 25WB, CP 25 N/S AND S/L, FIRE BARRIER 2000+, 2000 AND 2003 SILICONE SEALANTS, MOLDABLE PUTTY.
- PIPE COVERING FOR FLAME RETARDANT POLYPROPYLENE ACID WASTE PIPING FIRE STOPPING ASSEMBLY.
- (5) STEEL COLLAR FOR FRPP FIRE STOPPING ASSEMBLY.
- 6) PACKING MATERIAL FOR FRPP FIRE STOPPING ASSEMBLY.

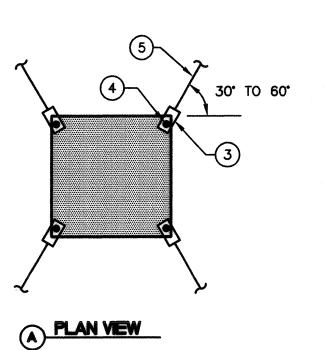
USE FOLLOWING APPLICABLE UL SYSTEMS FOR THE CONSTRUCTION TYPES LISTED.

CONSTRUCTION TYPE THROUGH PENETRATION FIREST SYSTEM NUMBERS		THROUGH PENETRATION FIRESTOP SYSTEM NUMBERS
	CONCRETE FLOORS	CAJ1007 (F-2, 3, 4 HR; T-0 HR), CAJ1010 (F-2 HR; T-0 HR), CAJ1012 (F-1 HR; T-0 HR), CAJ1017 (F-2, 3 HR; T-0 HR), CAJ1021 (F-3 HR; T-0, 1.5 HR), CAJ1027 (F-3 HR; T-0 HR), CAJ1044 (F-2, 3, 4 HR; T-0 HR), CAJ1058 (F-3 HR; T-3 HR), CAJ1063 (F-3 HR; T-0.5 HR), CAJ1112 (F-2 HR; T-0 HR), CAJ1175 (F-2 HR; T-0 HR), CAJ5001 (F-1.5, 2, 3 HR; T-0, 0.5, 0.75, 1 HR), CAJ5002 (F-2, 3 HR; T-0, 0.5, 1 HR), CAJ5003 (F-2 HR; T-0.5, 1 HR), CAJ5024 (F-2, 3 HR; T-1, 1.5 HR), CAJ5060 (F-2, 3 HR; T-0, 0.75, 1, 1.5 HR), CBJ1020 (F-4 HR; T-0, 0.75, 1.5 HR) FOR FLAME RETARDANT POLYPROPYLENE ACID WASTE PIPING USE SYSTEM NO. FA 2002 (F-1, 1.5,2 HR; T-1, 1.5, 2 HR)
	CONCRETE OR MASONARY WALLS	CAJ1001 (F-3 HR; T-0 HR), CAJ1017 (F-2, 3 HR; T-0 HR), CAJ1021 (F-3 HR; T-0, 1.5 HR), CAJ1027 (F-3 HR; T-0 HR), CAJ1044 (F-2, 3, 4 HR; T-0 HR), CAJ1058 (F-3 HR; T-0 HR), CAJ1063 (F-3 HR; T-0.5 HR), CAJ1112 (F-2 HR; T-0 HR), CAJ1175 (F-2 HR; T-0 HR), CAJ5001 (F-1.5, 2, 3 HR; T-0, 0.5, 0.75, 1 HR), CAJ5002 (F-2, 3 HR; T-0, 0.5, 1 HR), CAJ5003 (F-2 HR; T-0.5, 1 HR), CAJ5024 (F-2, 3 HR; T-1, 1.5 HR), CAJ5060 (F-2, 3 HR; T-0, 0.75, 1, 1.5 HR), CBJ1020 (F-4 HR; T-0, 0.75, 1.5 HR)
	GYPSUM WALLBOARD/ STUD WALLS	WL1001 (F-1, 2, 3, 4 HR; T-0, 1, 2, 3, 4 HR), WL1002 (F-1, 2 HR; T-0 HR), WL1003 (F-1, 2 HR; T-0 HR), WL2002 (F-1, 1.5, 2 HR, T-0.75, 1, 1.5, 2 HR), WL2003 (F-1, 2 HR; T-1, 2 HR), WL2004 (F-2 HR; T-0.75, 1.5, 2 HR), WL2005 (F-1, 2 HR; T-0, 0.75, 1, 1.5, 2 HR), WL5002 (F-1, 2 HR; T-1, 2 HR)

PIPE PENETRATION THROUGH
FIRE RATED PARTITIONS DETAIL

NOT TO SCALE

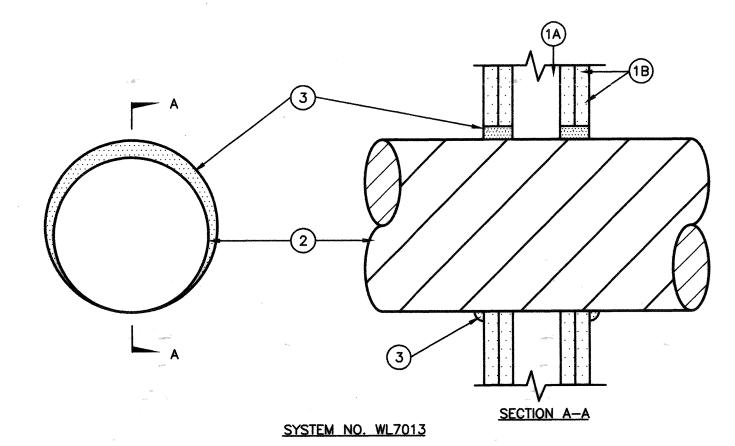




- 1 1/4" X 4" X 18" LONG GALV. STEEL PLATE.
- 2 DOUBLE LOCK NUTS (TYP.).
- 3 UNISTRUCT A21 OR EQUAL ANGLE BRACKET (TYP.).
- (4) 3/8" ALL THREAD ROD (TYP.4). PROVIDE UNISTRUCT P2485 OR EQUAL ROD STIFFENER WITH P100T CHANNEL FOR LENGTHS OVER 24".
- MIN. 12 GA. LATERAL RESTRANT CABLE (TYP. 4 DO NOT SLACKEN).
- 6 U-BOLT CLIPS (TYP.2 AT EACH END)

## UNIT HEATER SUPPORT DETAIL (TAIL PIPE FUME EXTRACTION EXHAUST SYSTEM HOSE REEL SIM.)

NOT TO SCALE



- . WALL ASSEMBLY THE 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
- A. STUDS WALL FRAMING SHALL CONSIST OF STEEL CHANNEL STUDS TO BE MIN 3-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. ADDITIONAL 3-1/2 IN. WIDE STEEL STUDS SHALL BE USED TO COMPLETELY FRAME OPENING.
- B. WALLBOARD, GYPSUM* TWO LAYERS OF MIN. 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM. OF OPENING IS 17-1/2 IN.
- 2. THROUGH-PENETRANT ONE STEEL DUCT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. AN ANNULAR SPACE OF MIN 0 IN. TO MAX 1-1/2 IN. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. STEEL DUCT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING SIZES OF STEEL DUCTS MAY BE USED:
- A. STEEL DUCT NOM 16 IN. DIAM (OR SMALLER) NO. 24 GAUGE (OR HEAVIER) SPIRAL WOUND GALV STEEL DUCT.
- B. STEEL VENT DUCT NOM 10 IN. DIAM (OR SMALLER) NO. 28 GAUGE (OR HEAVIER) GALV STEEL VENT DUCT.
- 3. FILL, VOID OR CAVITY MATERIAL* CAULK MIN 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL ASSEMBLY. AT THE POINT CONTACT LOCATION BETWEEN DUCT AND WALLBOARD, A MIN 1/4 IN. DIAM BEAD OF SEALANT SHALL BE APPLIED AT THE WALLBOARD/DUCT INTERFACE ON BOTH SURFACES OF WALL ASSEMBLY.

MINNESOTA MINING & MANUFACTURING CO. — CP-25 WB+
*BEARING THE UL CLASSIFICATION MARKING

NOTE: SUBMIT JOB SPECIFIC DETAILS FROM FIRESTOP MANUFACTURER FOR ALL OTHER APPLICATIONS AND WHERE ASSOCIATED OPNING EXCEED MAXIMUM PAARTITION OPENING STSTED ABOVE MANUFACTURER'S DETAILS FOR NON TESTED DUCT SIZES TO BE BASED ON TEST RESULTS OF CURRENT UL LISTED APPLICATIONS IN SIMILAR CIRCUMSTANCES. DETAILS MUST BE APPROVEDBY SITE INSPECTOR.

ROUND DUCT
THRU-PENETRATION FIRESTOP

NOT TO SCALE

REVISION DESCRIPTION INITIAL DATE

ISSUED FOR PROGRESS REVIEW 9/28/98

ISSUED FOR PROGRESS REVIEW 9/28/98
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IDENTIFICATION STAMP
ONISION OF THE STATE ARCHITECT

APPLOT 10 1153

AC A FIS SS COLUMN
DATE 5/4/99

DETAILS

SHEET TITLE:

AS-BULT

PROJ. NO. 94087.29

PREPARATION AND REVIEW

DRAWN BY JL/LK

DESIGNER

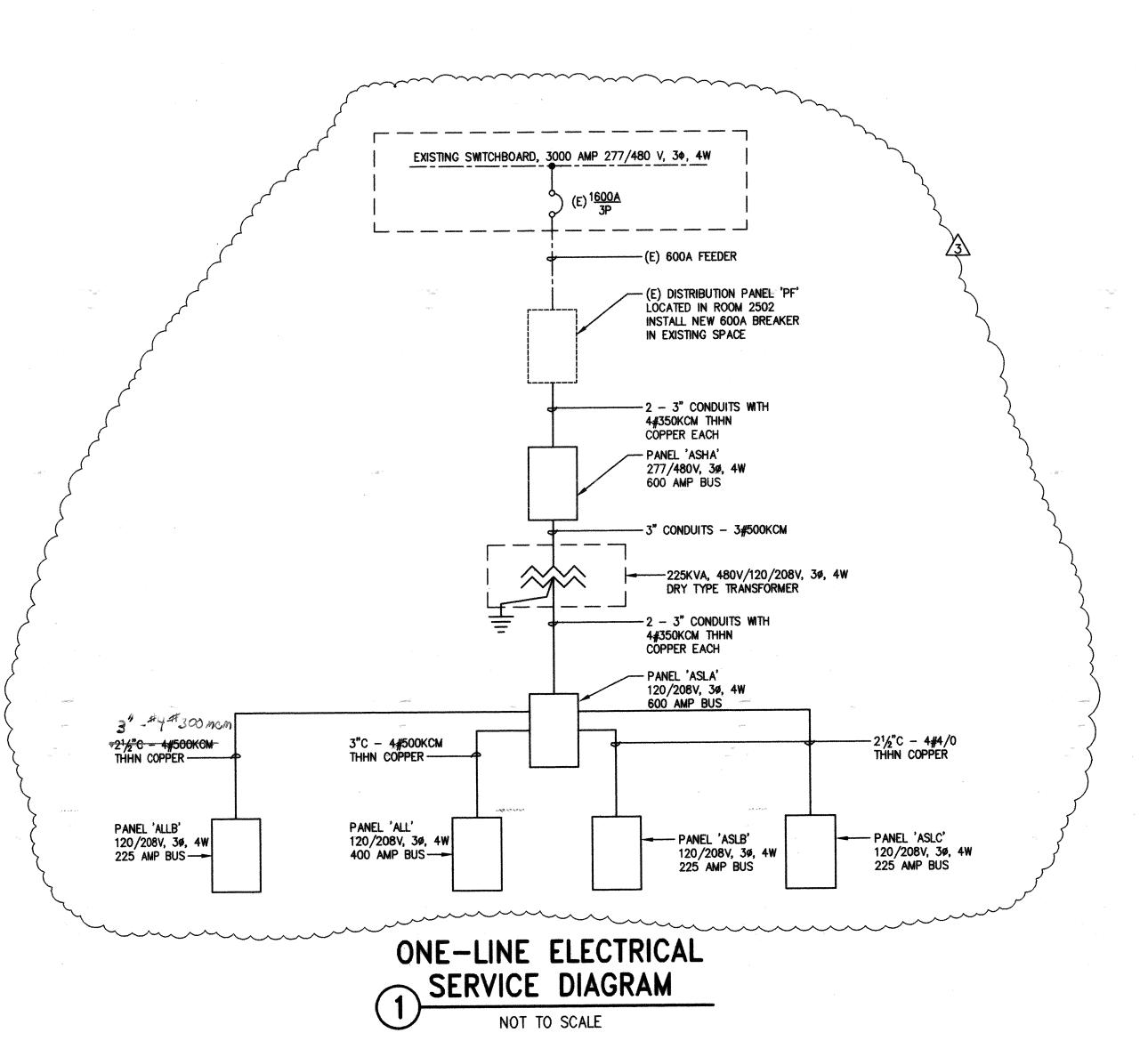
PROJ. MGR. AJ/MA

PEER REVIEW

SHEET NUMBER:

MP5.1

TYPE	MANUFACTURER AND CATALOG	LAMP	DESCRIPTION
	NUMBER	QUANTITY AND TYPE	
A	McPHILBEN #22A-3151JB-277	1 - 50W E17 MH	7" X 9 1/2" X 7 3/4"D SURFACE METAL HALIDE WALL POD WITH PRISMATIC LENS
В	DAY-BRITE #BHB-250M-27-16AR CSA	250W MH	16" DIA. HOLOPHANE STYLE ACRYLIC METAL HALIDE FIXTURE
C	DAY-BRITE #2SM232-FS12-277	2 - F32T8	SURFACE MOUNTED 2' X 4' FLUORESCENT FIXTURE WITH .125" THICK ACRYLIC PRISMATIC LENS
D1	NOT USED		
D2	DAY-BRITE #1SM232-FS12-277 PENDANT	2 - F32T8	1' X 4' SURFACE FLUORESCENT FIXTURE WITH .125" THICK ACRYLIC PRISMATIC LENS PENDANT MOUNTED AT HEIGHT TO MATCH EXISTING ADJACENT FIXTURES
E	GARDCO #A1923-250MH-277 POLE #06TRS-20-11	1 - 250W MH	19" SQ. METAL HALIDE LIGHT WITH TYPE III DISTRIBUTION, ONE HEAD, 20' POLE HEIGHT, FINISH TO MATCH EXISTING POLES ON SITE
F	DAY-BRITE #20DG332-FS01-277	3 - F32T8	RECESSED 2' X 4' FLUORESCENT FIXTURE WITH ACRYLIC PRISMATIC LENS
G	DAY-BRITE #TVHW232-EB0-277	4 - F32T8	8' FIBERGLASS VAPORLUME FIXTURE, LISTED FOR WET LOCATIONS WITH O' BALLAST



## GENERAL ELECTRICAL NOTES

- ELECTRICAL CONTRACTOR IS TO PROVIDE LABOR, MATERIALS, TRANSPORTATION, EQUIPMENT, RELATED HAND TOOLS, SPECIAL AND OCCASIONAL SERVICES TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEM AS SPECIFIED AND SHOWN ON THE
- MOUNTING HEIGHTS SHOWN (I.E. +48") ARE FROM FINISHED FLOOR TO CENTERLINE OUTLET. ALL MOUNTING HEIGHTS SHALL BE AS SHOWN ON SYMBOL LIST UNLESS OTHERWISE NOTED ON DRAWINGS.
- BONDING JUMPERS SHALL BE INSTALLED TO INSURE CONTINUITY WHERE CONDUIT CONNECTIONS AT CONCENTRIC KNOCKOUTS ARE TO SERVE AS A GROUND.
- 4. THE ELECTRICIAN SHALL CHECK THE TIGHTNESS OF ALL PANELBOARD BUSES AND CIRCUIT BREAKER LUGS. COMPLETELY VACUUM AND CLEAN INTERIOR OF EQUIPMENT PRIOR TO PLACING SERVICE INTO OPERATION.
- 5. ALL EQUIPMENT SHALL BE U.L. LISTED AND INSTALLED AS PER LISTING OR LABELING (I.E. MAX. FUSE SIZES MEAN FUSE PROTECTION REQUIRED).
- 6. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL LAYOUTS OF LIGHTING FIXTURES IN CEILING.
- 7. CONTRACTOR TO COORDINATE ALL NEW WORK WITH EXISTING CONDITIONS.
- 8. ALL ELECTRICAL CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCES AS REQUIRED BY SECTION 2-2312(g) AND TABLE 2-23(i) PART B, TITLE 24, CALIFORNIA ADMINISTRATIVE CODE, PART 2. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER.
- COORDINATE EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT REQUIRING ELECTRICAL HOOK-UP WITH CONTRACTOR RESPONSIBLE FOR PROVIDING EQUIPMENT AND EQUIPMENT MANUFACTURER DATA SHEETS.

OF CALIFORNIA BUILDING ENERGY STANDARDS 2-5314(a).

- 10. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ORIENTATION OF ALL
- ELECTRICAL OUTLETS. 11. FLUORESCENT LIGHT FIXTURES SHALL HAVE CERTIFIED LUMINAIRE/BALLASTS PER STATE
- 12. ALL CORRIDOR AND EXTERIOR WALL PENETRATIONS FOR PIPES, CONDUITS, ETC., IN WALLS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. FIRE STOP MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE FIRE MARSHAL.
- 13. ELECTRICAL CONTRACTOR SHALL REVIEW MECHANICAL AND PLUMBING CONTRACT DRAWINGS AND VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS, SIZES AND CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR AND MECHANICAL EQUIPMENT SUPPLIERS AND MANUFACTURERS PRIOR TO INSTALLATION OF ELECTRICAL CONNECTIONS.
- 14. RECEPTACLES SHALL NOT BE INSTALLED BACK TO BACK AND SHALL BE SPACED 24" APART.
- 15. REVISE EXISTING DIRECTORY IN EXISTING PANELS, GIVING CIRCUIT NUMBER AND COMPLETE DESCRIPTION OF ALL OUTLETS CONTROLLED BY EACH CIRCUIT BREAKER.
- 16. ALL CONTROL DEVICES TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA SHALL BE INSTALLED AT A MINIMUM OF 36" C/L, TO A MAXIMUM OF 48" C/L FROM THE FINISHED
- 17. PROVIDE CONTINUED OPERATION OF ALL CIRCUITS NOT IN REMODELED AREA AFFECTED
- 18. FLECTRICAL DRAWINGS ARE DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF MANUFACTURER'S OR OWNER'S DATA AVAILABLE AND/OR VERIFY DATA IN THE FIELD FOR PROVIDING AND INSTALLING CORRECT CABLE LENGTHS.
- 19. ALL UNUSED CONDUIT IS TO BE REMOVED.

BY THIS WORK.

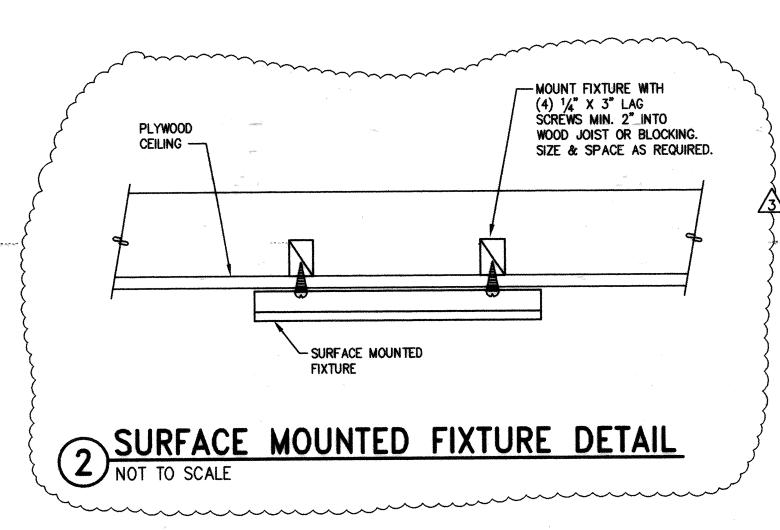
- 20. ALL EQUIPMENT MUST BE LISTED, LABELED, OR CERTIFIED BY A NATIONAL RECOGNIZED TESTING LABORATORY (NRTL) [CAN 3-110-2].
- 21. APPLICABLE CODE AS OF JANUARY 1, 1996: CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 1994 UBC WITH 1995 CA AMENDMENTS CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 1993 NEC WITH 1995 CA AMENDMENTS CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 1994 UMC WITH 1995 CA AMENDMENTS CALIFORNIA FIRE CODE (PART 9, TITLE 24): 1994 UFC WITH 1995 CA AMENDMENTS CALIFORNIA REFERNECED STANDARDS CODE (PART 12, TITLE 24): 1991 UBC WITH 1995 CA AMENDMENTS PUBLIC SAFETY (TITLE 19), STATE FIRE MARSAHLL NFPA 72, NATIONAL FIRE ALARM CODE, 1993.
- 22. UPON COMPLETION OF THE INSTALLATION OF THE FIRE PROTECTIVE SIGNALING EQUIPMENT, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE LOCAL FIRE AUTHORITY WITH THE DSA INSPECTOR OF RECORD (IOR).
- 23. FIRE ALARM SYSTEM SCOPE OF WORK: A. EXTEND EXISTING CAMPUS MANUAL FIRE ALARM SYSTEM TO NEW VOCATIONAL TECH ADDITION.

  B. ADD NEW SIGNAL EXTENDER PANEL AT NEW VOCATIONAL TECH WING NEXT TO EXISTING FATC. SYSTEM IS AN EXISTING PYROTRONICS MANUAL ADDRESSABLE CLASS B SYSTEM.
- D. AUDIBLE SOUND LEVEL SHALL BE AT LEAST 15 DB ABOVE THE AVERAGE AMBIENT SOUND BUT HOT LESS THAN 1510BS OR MORE THAN 1201BA TOTAL

  LEVEL IN ALL GEOUPHABLE AREAS PER NFPA-72 SECTION 6-312. CTHEOLOGY OUT

  E. FIRE ALARM CONTRACTOR SHALL PROVIDE A CERTIFICATE OF COMPLETION AFTER

  ACCEPTANCE TEST NFPA 72 SECTION 1.7.2.1, FIGURE 1.7.2.1. TO DSA (SHALL BE
- F. VISUAL DEVICES SHALL NOT EXCEED 3 FLASHES PER SECOND, CBC SECTION 3504.
- G. AUDIBLE PRICES SHALL SOUND THE CAUPORNIA UNIFORM



ELECTRICAL SYMBOLS EXISTING SURFACE MOUNTED FIXTURE EXISTING 1 X 4' FLUORESCENT LIGHT FIXTURE

EXISTING ELECTRICAL PANEL POLE MOUNTED PARKING LOT LIGHT FIXTURE, SINGLE LUMINAIRES AS SHOWN - SEE FIXTURE SCHEDULE SURFACE MOUNTED 2' X 4' FLUORESCENT FIXTURE - SEE FIXTURE SCHEDULE "SURFACE/PENDANT MOUNTED 1' X 4' FLUORESCENT FIXTURE - SEE FIXTURE SCHEDULE

HID INDUSTRIAL FIXTURE SPST SWITCH, +48"

3-WAY SPST SWITCH, +48" 20A, 125V, 3W GROUNDING TYPE DUPLEX RECEPTACLE AT +18" U.O.N.

20A, 125V, 3W GROUNDING TYPE TWISTLOCK RECEPTACLE

SPECIAL PURPOSE RECEPTACLE MULTI-OUTLET SURFACE RACEWAY +42" WITH OUTLETS AS INDICATED ON DRAWINGS

DUPLEX RECEPTACLE - GROUNDING TYPE COMPUTER DATA OUTLET, +18" U.O.N.

TELEPHONE OUTLET, +18" U.O.N.

NEW ELECTRICAL PANELBOARD

DISCONNECT SWITCH - SIZE AS REQUIRED BY CODE

MOTOR CONNECTION COMPLETE WITH FLEX THERMAL OVERLOAD SWITCH - MOTOR RATED

PULL BOX, SIZE PER CODE

WALL/CEILING MOUNTED J-BOX, SIZE PER CODE

CEILING MOUNTED CLASSROOM SPEAKER EXTERIOR SPEAKER (WEATHERPROOF)

FIRE ALARM TERMINAL CABINET

FIRE ALARM SIGNAL EXPANDER PANEL (PYROTRONICS #PAD-2)

ADDRESSABLE SMOKE DETECTOR WITH BASE (PYROTRONICS #FP-11)

ADDRESSABLE HEAT DETECTOR WITH BASE (PYROTRONICS #---) ADDRESSABLE PULL STATION (PYROTRONICS #MS1-10B)

HORN/STROBE (PYROTRONICS #MTLS17-5)

STROBE (PYROTRONICS #S17-F)

WEATHERPROOF HORN (PYROTRONICS #---)

CONTROL MODULE (PYROTRONICS #---)

MONITOR MODULE (PYROTRONICS #TRIB6D)

buct detector ---- EXISTING CIRCUITRY

---- CIRCUITRY RUN UNDERGROUND

CIRCUITRY RUN CONCEALED IN WALL, CEILING OR AS NOTED

HOMERUN TO PANELBOARD OR OTHER TERMINATION POINT

ANY BRANCH CIRCUIT CONDUIT SHALL BE MINIMUM 1/2"C - 2#12 UNLESS OTHERWISE NOTED OR INDICATED. FOR A GREATER NUMBER OF #12 WIRES: (-+++-== 1/2"C - 3#12) ETC. FOR WIRE SIZES OTHER THAN #12: ( ##8 = 3#8 IN CODE SIZE CONDUIT) ETC. PROVIDE GREEN GROUND WIRE IN ALL RECEPTACLE BRANCH CIRCUITS UNLESS NOTED.

NEW

PULL BOX

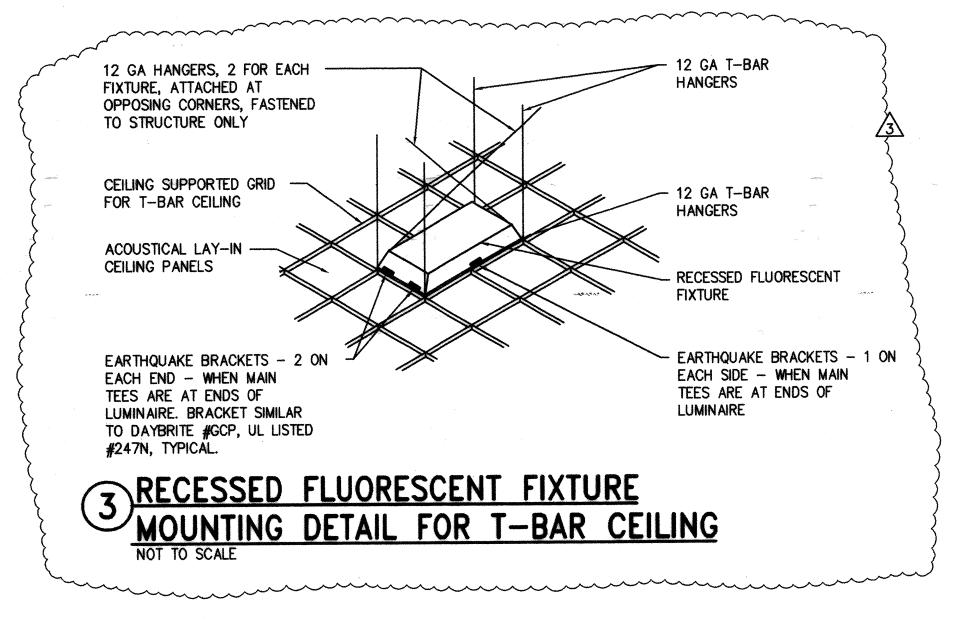
WEATHERPROOF

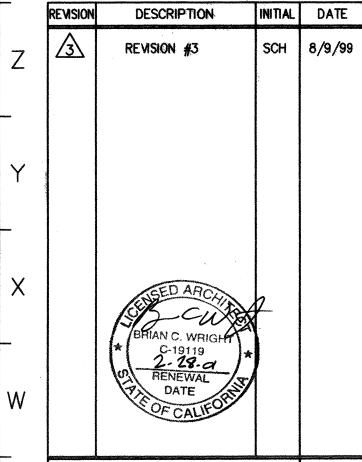
NUMBERED ELECTRICAL NOTE NUMBER ONE

FIXTURE TAG — LETTER DENOTES FIXTURE TYPE, NUMBERS INDICATES QUANTITY AND WATTAGE OF LAMPS

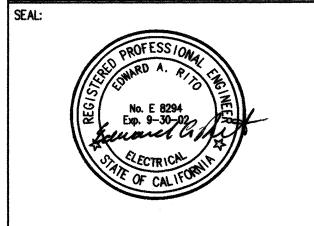
DETAIL TAG - NUMBER DENOTES DETAIL NUMBER, LETTER/NUMBER COMBINATION DENOTES SHEET REFERENCE

MECHANICAL TAG - SEE MECHANICAL DRAWINGS





ISSUED FOR PROGRESS REVIEW ISSUED FOR PLAN CHECK ISSUED FOR PERMIT 5/4/99 ISSUED FOR BID ISSUED FOR CONSTRUCTION



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**VOCATIONAL TECHNOLOGY ADDITION** 

LOS MEDANOS COLLEGE 2700 EAST LELAND ROAD

CONTRA COSTA COUNTY COLLEGE DISTRICT

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT APPLOT 10 1 83

FIXTURE SCHEDULE ONE-LINE DIAGRAM

SYMBOL LIST, NOTES,

PITTSBURG, CA

PREPARATION AND REVIEW

SHEET NUMBER:

