

PART 1 - GENERAL

1.1 WORK INCLUDED

- A. WORK CONSISTS OF PROVIDING LABOR, PRODUCTS, AND IN PERFORMING ALL OPERATIONS REQUIRED FOR THE COMPLETE OPERATING INSTALLATION OF ALL MECHANICAL SYSTEMS AS SHOWN AND SPECIFIED, IN STRICT ACCORDANCE WITH SPECIFICATIONS, APPLICABLE DRAWINGS, TERMS, AND CONDITIONS OF THE CONTRACT AND ALL APPLICABLE CODES AND ORDINANCES GOVERNING INSTALLATION OF THE VARIOUS MECHANICAL SYSTEMS. CORRELATE ALL WORK FULLY WITH THE WORK OF OTHER CRAFTS. PROVIDE ALL SYSTEMS COMPLETE AND IN PROPER OPERATING ORDER.

1.2 REGULATORY REQUIREMENTS

- A. COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES, ORDINANCES AND REGULATIONS IN EXISTENCE AT BID DATE AFFECTING MATERIALS AND METHODS OF INSTALLATION OF THE MECHANICAL SYSTEMS. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, UNIFORM PLUMBING CODE, INTERNATIONAL FIRE CODE, NATIONAL ELECTRICAL CODE, AGA, AND OSHA AS THEY APPLY TO THIS PROJECT EXCEPT IN CASES WHERE STATUTES GOVERN.

1.3 MANUFACTURER'S WARRANTIES

- A. IN THE EVENT OF EQUIPMENT OR COMPONENT FAILURE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE SUCH DEFECTIVE EQUIPMENT OR COMPONENTS AND BEAR ALL ASSOCIATED COSTS. THE CONTRACTOR SHALL PURSUE MANUFACTURER'S WRITTEN IMPLIED WARRANTIES TO THE EXTENT NECESSARY TO OBTAIN REPLACEMENT EQUIPMENT OR COMPONENTS PRIOR TO ANY OTHER ACTION BEING INITIATED.

1.4 ELECTRICAL WORK

- A. ALL WIRING SHALL BE IN ACCORDANCE WITH NEC, STATE AND LOCAL CODES.

1.5 TESTS AND INSPECTIONS

- A. SCHEDULE, OBTAIN, AND PAY ALL FEES AND/OR SERVICES REQUIRED BY LOCAL AUTHORITIES AND BY THESE SPECIFICATIONS, TO TEST THE MECHANICAL SYSTEMS AS SPECIFIED.
- B. DEFICIENCIES: IMMEDIATELY CORRECT ALL DEFICIENCIES WHICH ARE EVIDENCED DURING THE TESTS AND REPEAT TESTS UNTIL SYSTEM IS APPROVED. DO NOT COVER OR CONCEAL PIPING, EQUIPMENT, OR OTHER PORTIONS OF THE MECHANICAL INSTALLATIONS UNTIL SATISFACTORY TESTS ARE MADE AND APPROVED.
- C. COMPLETION: UPON COMPLETION OF THE MECHANICAL INSTALLATION, DEMONSTRATE TO THE CONTRACTING AGENCY'S SATISFACTION THAT THE SYSTEMS HAVE BEEN INSTALLED IN A SATISFACTORY MANNER IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND APPLICABLE CODES. DEMONSTRATE DYNAMIC OPERATION OF ALL SYSTEMS. SHOW THAT ALL CONTROLS ARE OPERABLE AND ARE PROPERLY ADJUSTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FINAL SYSTEMS BALANCE, THAT ALL SYSTEMS ARE PROPERLY BALANCED, THAT ALL EQUIPMENT OPERATES PROPERLY, THAT FILTERS AND STRAINERS ARE CLEAN, AND THAT ALL COMPONENTS OF ALL SYSTEMS ARE INSTALLED AND ADJUSTED FOR PROPER OPERATION.

1.6 PROJECT/SITE CONDITIONS

- A. INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS.
- B. PROVIDE INFORMATION SHOWING PROPOSED REARRANGEMENT OF WORK TO MEET PROJECT CONDITIONS, INCLUDING CHANGES TO WORK SPECIFIED IN OTHER SECTIONS OR INTERFERENCE WITH SITE CONDITIONS NOT IN THE CONTRACT. OBTAIN PERMISSION OF OWNER BEFORE PROCEEDING.

PART 2 - PRODUCTS

2.1 SUPPORTS AND ANCHORS

2.1.1 PIPE HANGERS AND SUPPORTS

- A. HANGERS FOR PIPE SIZES 1/2 TO 1-1/2 INCH: ADJUSTABLE SWIVEL, LOOP HANGER
- B. HANGERS FOR PIPE SIZES 2 TO 4 INCHES: ADJUSTABLE, SWIVEL.
- C. MICHIGAN HANGER CO. MODEL #100 FOR STEEL AND PLASTIC AND MODEL #101 FOR COPPER PIPE.
- D. PIPING SUPPORT SPACING PER UNIFORM PLUMBING CODE.
- E. INSTALL HANGERS TO PROVIDE MINIMUM 1/2 INCH SPACE BETWEEN FINISHED COVERING AND ADJACENT WORK. PLACE A HANGER WITHIN 12 INCHES OF EACH HORIZONTAL ELBOW. USE HANGERS WITH 1-1/2 INCH MINIMUM VERTICAL ADJUSTMENTS.

2.1.2 HANGER RODS

- A. STEEL HANGER RODS: THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUS THREADED.

2.1.3 SLEEVES

- A. SLEEVES FOR PIPING AND DUCTWORK THROUGH NON-FIRE RATED FLOORS, BEAMS, WALLS, FOOTINGS, AND POTENTIALLY WET FLOORS: FORM WITH STEEL PIPE OR 18 GAUGE GALVANIZED STEEL. EXTEND SLEEVES THROUGH FLOORS ONE INCH ABOVE FINISHED FLOOR LEVEL. CAULK SLEEVES FULL DEPTH AND PROVIDE FLOOR PLATE. WHERE PIPING OR DUCTWORK PENETRATES CEILING OR WALL, CLOSE OFF SPACE BETWEEN PIPE OR DUCT AND ADJACENT WORK WITH FIRE-STOPPING INSULATION AND CAULK SEAL AIR TIGHT. PROVIDE CLOSE FITTING METAL COLLAR OR ESCUTCHEON COVERS AT BOTH SIDES OF PENETRATION. FIRE STOPPING INSULATION: GLASS FIBER TYPE, NON COMBUSTIBLE. CAULK: ACRYLIC SEALANT.
- B. SLEEVES FOR PIPES THROUGH FIRE RATED AND FIRE RESISTIVE FLOORS AND WALLS, AND FIREPROOFING: PREFABRICATED FIRE RATED SLEEVES INCLUDING SEALS, UL LISTED.

- C. SIZE SLEEVES LARGE ENOUGH TO ALLOW FOR MOVEMENT DUE TO EXPANSION AND CONTRACTION. PROVIDE FOR CONTINUOUS INSULATION WRAPPING.

- D. INSTALL CHROME-PLATED STEEL ESCUTCHEONS AT FINISHED SURFACES.

2.1.4 DUCTWORK HANGERS AND SUPPORTS

- A. DUCTS 24" AND LESS: PROVIDE WITH ONE INCH X 18 GAUGE STRAPS FASTENED TO DUCTWORK AND TO BUILDING CONSTRUCTION. SPACE NOT MORE THAN EIGHT FEET ON CENTER.
- D. RECOMMENDED METHODS OF FASTENING BRACING TO DUCTWORK, INCLUDE RIVETING, BOLTING, AND TACK WELDING.

2.2 PIPING INSULATION

2.2.1 INSULATION

- A. ACCEPTABLE MANUFACTURERS: ARMSTRONG, CERTAINTEED, MANVILLE, KNAUF, PITTSBURGH CORNING.
- B. GLASS FIBER INSULATION: ASTM C547, 'K' VALUE OF 0.24 AT 75 DEGREES F, NONCOMBUSTIBLE; MINIMUM SERVICE TEMPERATURE -20; MAXIMUM SERVICE TEMPERATURE 300 DEGREES F; MAXIMUM MOISTURE ABSORPTION 0.20 PERCENT BY VOLUME; VAPOR RETARDER JACKET COMPOSED OF WHITE KRAFT PAPER AND ALUMINUM FOIL LAMINATE. FLAME SPREAD/SMOKE DEVELOPED RATING OF 25/50 OR LESS IN ACCORDANCE WITH UL T23.

2.2.2 COLD PIPING REQUIREMENTS

- A. INSULATION AND VAPOR BARRIER JACKET
 - 1. INSULATE PIPING, INCLUDING FITTINGS, VALVES, UNIONS, FLANGES, AND STRAINERS, WITH INSULATION MATERIAL AND THICKNESS AS SPECIFIED, AND PROVIDE CONTINUOUS VAPOR BARRIER. CONTINUE INSULATION AND VAPOR BARRIER THROUGH PENETRATIONS.
 - 2. USE ONLY VAPOR BARRIER ADHESIVES AND COATINGS, STAPLING OF JACKET NOT PERMITTED.
 - 3. COVER ENDS OF INSULATION SECTIONS WITH AN ADHESIVE COATING AT INTERVALS OF NOT MORE THAN 21 FEET.
 - 4. COVER INSULATION ON FITTINGS WITH A VAPOR BARRIER COATING APPLIED APPROXIMATELY 1/16 INCH THICK AND PRE-MOLDED PVC FITTINGS COVER.
- B. INSULATE DOMESTIC COLD WATER WITH 1 INCH THICK GLASS FIBER INSULATION.

2.2.3 HOT PIPING REQUIREMENTS

- A. INSULATION AND JACKET
 - 1. ON PIPING CONVEYING FLUIDS 140 DEGREES F OR LESS, DO NOT INSULATE FLANGES AND UNIONS AT EQUIPMENT, BUT BEVEL AND SEAL ENDS OF INSULATION AT SUCH LOCATIONS. INSULATE FLANGES AND UNIONS AT EQUIPMENT WHEN FLUID TEMPERATURES EXCEEDS 140 DEGREES F. INSULATE FITTINGS, JOINTS, AND VALVES WITH SAME INSULATION AND THICKNESS AS SCHEDULED. STAPLES MAY BE USED TO SEAL JACKETS.
 - 2. COVER INSULATION ON FITTINGS WITH PRE-MOLDED PVC FITTINGS COVERS.
 - 3. INDOOR EXPOSED APPLICATIONS: SIZE FOR FINISH PAINT APPLICATION.
- B. INSULATE ALL HEATING WATER SUPPLY AND RETURN LINES WITH 1 INCH THICK GLASS FIBER INSULATION.

2.2.4 SPECIAL INSULATION REQUIREMENTS

- A. PLUMBING VENTS: INSULATE PLUMBING VENTS FROM THE HEATED AREA OF THE CEILING TO TERMINATION AT THE ROOF LINE. PROVIDE VAPOR BARRIER.
- B. INSULATE UNDER SLAB TRAP PRIMER LINE WITH 1" ARMAFLEX OR EQUAL.

2.2.5 DUCT INSULATION REQUIREMENTS

- A. INSULATE OUTSIDE AIR DUCTWORK WITH 2" OF RIGID GLASS FIBER INSULATION, K = 24 AT 75 DEGREES F, 450 DEGREES F SERVICE TEMPERATURE, 0.02 PERM VAPOR TRANSMISSION, 5 PERCENT WATER VAPOR SORPTION.
- B. INSULATE INTERIOR CONCEALED SUPPLY AIR DUCT WITH 1-1/2" F8K FACED FLEXIBLE DUCT WRAP, K = 24 AT 75 DEGREES F, 250 DEGREES F SERVICE TEMPERATURE, 0.2 PERM VAPOR TRANSMISSION, 5 PERCENT WATER VAPOR SORPTION.
- C. INSULATE EXHAUST AIR RECTANGULAR DUCTWORK WITH 1" RIGID F8K FACED GLASS FIBER INSULATION, K = 24 AT 75 DEGREES F, 450 DEGREES F SERVICE TEMPERATURE 0.2 PERM VAPOR TRANSMISSION, 5 PERCENT WATER VAPOR SORPTION.
- D. DUCT LINER, CERTAINTEED TOUGHGARD TYPE 150 OR EQUAL.

2.3 SPRINKLER SYSTEM

- A. PROVIDE SYSTEM DESIGN, MATERIALS TOOLS, EQUIPMENT, SUPERVISION, LABOR, AND TRANSPORTATION TO COMPLETE THE WORK AND OBTAIN SPECIFIED PERFORMANCE.
- B. PROVIDE A COMPLETE WET TYPE SPRINKLER SYSTEM. SYSTEM TO PROVIDE COVERAGE FOR ENTIRE PROJECT.
- C. COORDINATE AND RESOLVE DETAILS TO ACHIEVE COMPATIBILITY BETWEEN THE SPRINKLER SYSTEM AND OTHER BUILDING ELEMENTS.
- D. PROVIDE SYSTEM TO IBC AND NFPA 13 REQUIREMENTS.
- E. INTERFACE SYSTEM WITH BUILDING FIRE AND SMOKE ALARM SYSTEM.
- F. CONCEAL PIPING, EXCEPT IN MECHANICAL SPACES AND UNFINISHED SPACES.
- G. ALL MATERIALS SHALL BEAR UL OR FM LABEL OR MARKING.
- H. COORDINATE SPRINKLER SYSTEM PIPING AND HEAD LOCATIONS WITH CEILING TYPES, LIGHT FIXTURES, AIR DIFFUSERS, DUCTS, AND STRUCTURAL MEMBERS.

- I. CENTER HEADS IN TWO DIRECTIONS IN CEILING TILES.

2.4 PIPING

2.4.1 MATERIALS

A. SANITARY SEWER, VENT PIPING

- 1. CAST IRON PIPE: C15PI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON JOINTS: NEOPRENE GASKETS AND TYPE 304 STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES; C15PI H8N COMPRESSION TYPE WITH ASTM C564 NEOPRENE GASKETS.

- 2. VENTS 1-1/2 INCH AND SMALLER: DWV COPPER WITH CAST COPPER ALLOY OR WROUGHT COPPER FITTINGS.

B. DOMESTIC WATER, ABOVE GRADE.

- 1. COPPER TUBING: ASTM B88, TYPE L HARD DRAWN. FITTINGS: ASTM B16.18, WROUGHT COPPER JOINTS: ASTM B32, SOLDER, ENGELHARD 'SILVABRITE 100' OR OTHER APPROVED LEAD-FREE SOLDER.

C. DOMESTIC WATER, BURIED

- 1. COPPER TUBING: ASTM B88 OR ASTM B42, TYPE K HARD DRAWN, ANNEALED. FITTINGS: ASTM B16.18, CAST COPPER ALLOY OR ASTM B16.22, WROUGHT COPPER AND BRONZE JOINTS: ASTM B32, SOLDER, ENGELHARD 'SILVABRITE 100' OR OTHER APPROVED LEAD-FREE SOLDER.

D. HEATING WATER PIPING

- 1. STEEL PIPE: ASTM A53, SCHEDULE 40, BLACK. FITTINGS: ASTM B16.3, MALLEABLE IRON OR ASTM A234, FORGED STEEL WELDING TYPE FITTINGS. JOINTS: SCREWED, OR A105 D11, WELDED.
- 2. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ANSI/ASME B16.18 CAST BRASS OR ASTM B16.22 SOLDER WROUGHT COPPER JOINTS: ASTM B32, SOLDER, ENGELHARD 'SILVABRITE 100' OR OTHER APPROVED LEAD-FREE SOLDER COMPATIBLE WITH GLYCOL.

E. SNOW MELT HEATING SYSTEMS

- 1. IN FLOOR TUBING: HEPEX PLUS CROSS LINKED POLYETHYLENE HEAT TRANSFER TUBING WITH OXYGEN DIFFUSION BARRIER 5/8" NOMINAL INSIDE DIAMETER COMPLY WITH ASTM F816. PIPING RATED FOR 100 PSI AND 180°F.
- 2. MANIFOLD: 1-1/4" BRASS MANIFOLD SYSTEM INCLUDING END CAPS, AIR VENTS, BALANCING CAPS, THERMOMETER AND ALL MOUNTING HARDWARE. MANIFOLD SUITABLE FOR OPERATING PRESSURE OF 100 PSI AND 180°F.

2.4.4 FLANGES, UNIONS, AND COUPLINGS

- A. PIPE SIZE 2 INCHES AND UNDER: PIPING: BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.
- B. DIELECTRIC CONNECTIONS: UNION WITH GALVANIZED OR PLATED STEEL THREADED END, COPPER SOLDER END, WATER IMPERVIOUS ISOLATION BARRIER.

2.4.5 VALVES

- A. SELECT VALVES OF THE BEST QUALITY AND TYPE SUITED FOR THE SPECIFIC SERVICE AND PIPING SYSTEM USED. MINIMUM WORKING PRESSURE RATING 125 PSIG STEAM OR 150 PSIG W.O.G. BALL VALVES ARE TO BE USED IN LIEU OF GATE VALVES FOR SHUT-OFF AND ISOLATION SERVICE.
- B. BALL VALVES: UP TO AND INCLUDING 3 INCHES: BRONZE OR STAINLESS STEEL BODY, 400 PSI W.O.G. - 150 SWP, STANDARD PORT, STAINLESS STEEL OR BRONZE BALL, TEFLON SEATS, AND STUFFING BOX RING, LEVER HANDLE, SOLDER OR THREADED ENDS. SEAT MATERIAL TO BE COMPATIBLE WITH FLUID HANDLED.

2.5 DUCTWORK

2.5.1 DEFINITIONS

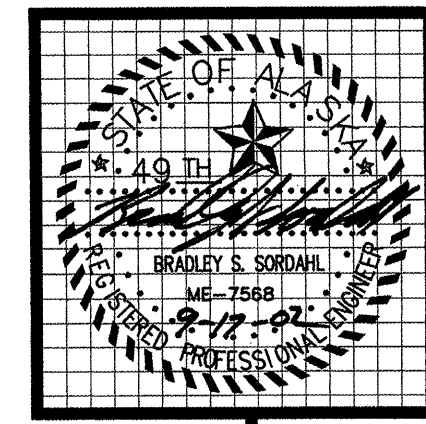
- A. DUCT SIZES: INSIDE CLEAR DIMENSIONS.

2.5.2 MATERIALS

- A. GENERAL: NON-COMBUSTIBLE OR CONFORMING TO REQUIREMENTS FOR CLASS I AIR DUCT MATERIALS OR UL 181.
- B. STEEL DUCTS: ASTM A525 GALVANIZED STEEL SHEET, LOCK FORMING QUALITY, HAVING ZINC COATING OF 125 OZ PER SQUARE FOOT FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.
- C. INSULATED FLEXIBLE DUCTS: UL 181, CLASS 1: FLEXIBLE DUCT WRAPPED WITH FLEXIBLE GLASS FIBER INSULATION, ENCLOSED BY SEAMLESS METALLIZED FILM VAPOR BARRIER: RATED TO 6 INCHES WG POSITIVE AND 1 INCH WG NEGATIVE PRESSURE AND A MAXIMUM VELOCITY OF 4000 FPM.
- D. SEALANT: NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE, COMPATIBLE WITH MATING MATERIALS; LIQUID USED ALONE OR WITH TAPE, OR HEAVY MASTIC.
- E. HANGER ROD: STEEL, GALVANIZED; THREADED BOTH ENDS, THREADED ONE END, OR CONTINUOUSLY THREADED.
- F. BALANCING DAMPERS: FABRICATED WITH DURO DYNE SPEC LINE SERIES REGULATORS. PROVIDE CONCEALED TYPE REGULATOR SET FOR INACCESSIBLE DAMPER LOCATIONS.

2.5.3 DUCTWORK

- A. FABRICATE AND SUPPORT IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS AND ASHRAE HANDBOOKS, EXCEPT AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALING FOR OPERATING PRESSURES INDICATED.
- B. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15 DEGREES DIVERGENCE WHEREVER POSSIBLE. DIVERGENCE UPSTREAM OF EQUIPMENT SHALL NOT EXCEED 30 DEGREES; CONVERGENCE DOWNSTREAM SHALL NOT EXCEED 45 DEGREES.
- C. USE DOUBLE NUTS AND LOCK WASHERS ON THREADED ROD SUPPORTS.



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 800 E street, suite 200 • anchorage, alaska 99501 • (907) 272-8888

Sjoquist Architects, Inc.
 Minneapolis, Minnesota 55414
 2001 University Ave SE #200
 612.279.9233 Fax 612.279.9265
 http://www.sjoquist.com

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR:
DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|---------------------------|
| drawn | JM |
| checked | |
| date | 6-3-02 |
| revisions | |
| 1 | 9-11-02 |
| job no. | 20152 |
| dwg. title | |
| | MECHANICAL SPECIFICATIONS |
| sheet no. | |
| | M7.0 |

100% SUBMITTAL

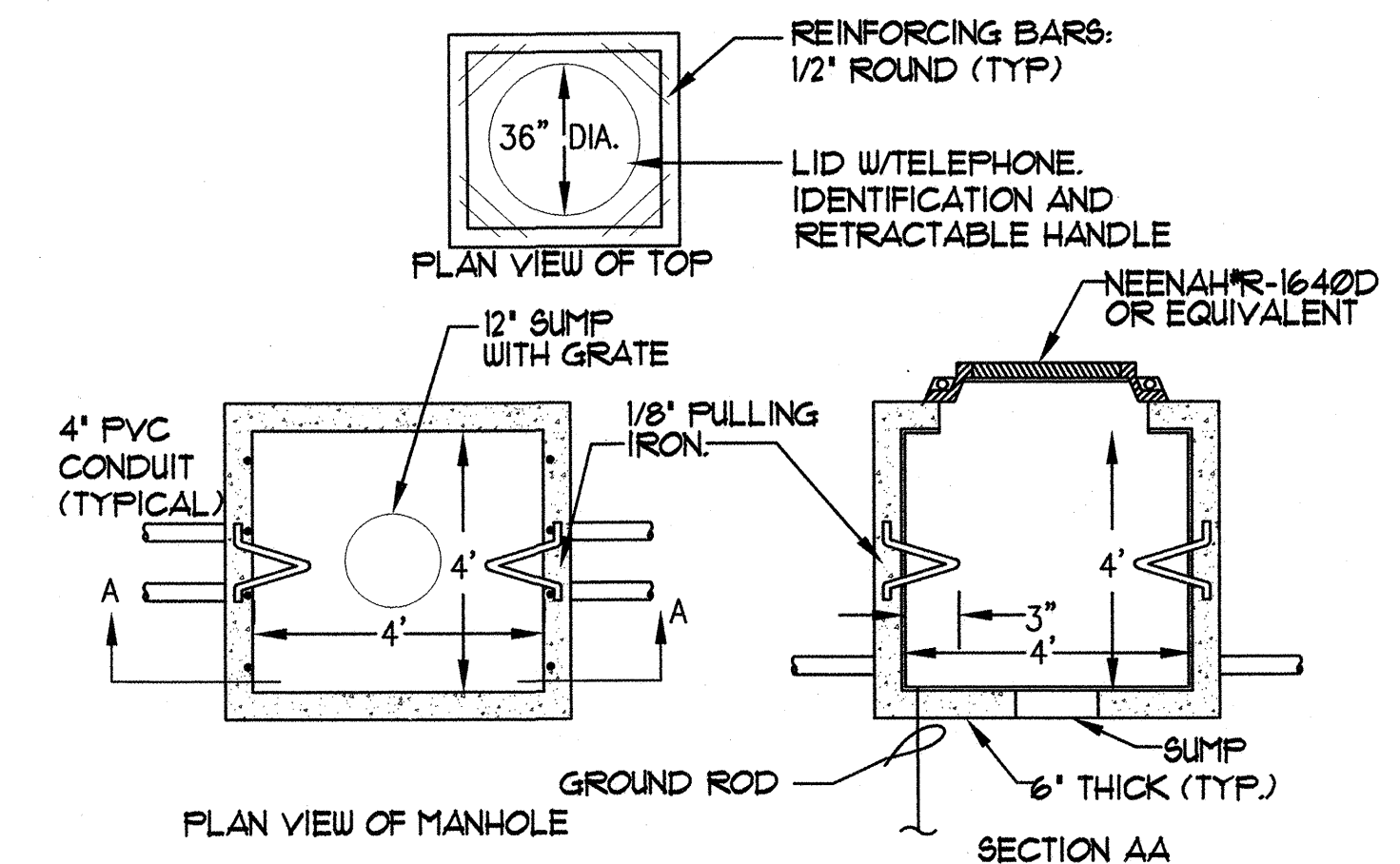
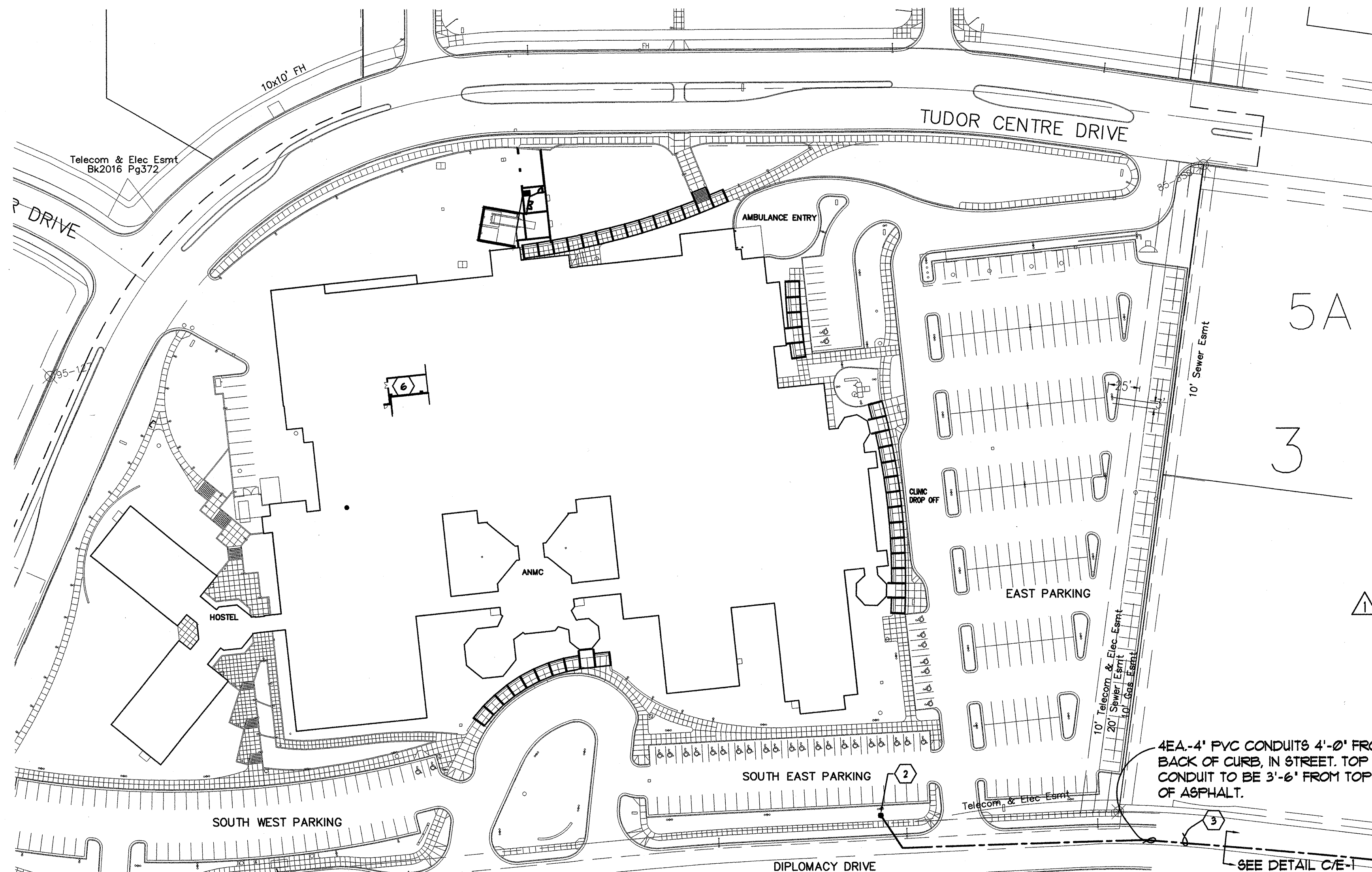


MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

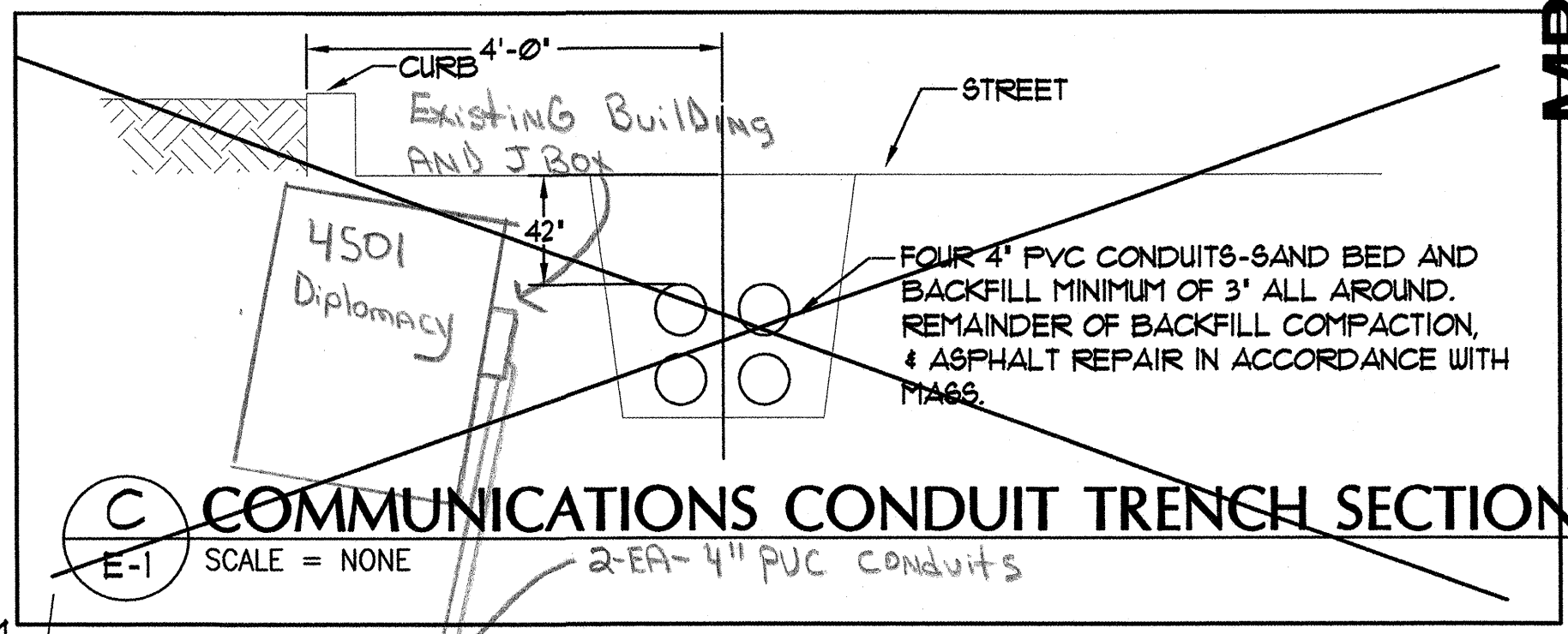
kumin associates, inc.
 architects • planners • interior designers

908 E street, suite 200 • anchorage, alaska 99501 • (907) 275-8888

Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9235
<http://www.sjoquist.com>



(B) TELEPHONE MANHOLE
 E-1 SCALE = NONE
 NOTE: PROVIDE STEEL CONDUIT THROUGH WALL AND 5' BEYOND.



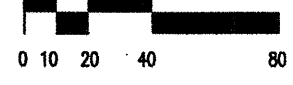
(C) COMMUNICATIONS CONDUIT TRENCH SECTION
 E-1 SCALE = NONE

4EA-4" PVC CONDUITS 4'-0" FROM BACK OF CURB, IN STREET. TOP OF CONDUIT TO BE 3'-6" FROM TOP OF ASPHALT.

NOTES

1. ALL NEW CABLE AND EQUIPMENT TO MATCH EXISTING CABLE AND EQUIPMENT. ALL WORK TO COMPLY WITH ANMC/ANTHC CABLING STANDARDS, TIA/EIA STANDARDS AND BICSI STANDARDS. SCHEDULE WORK AS APPROVED BY OWNER LOCATE AND AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES
2. SPLICE INTO EXISTING 900 PAIR COPPER CABLE AND 48 STRAND FIBER CABLE IN EXISTING MANHOLE. PROVIDE WATERPROOF SPLICES SUPPORTED ON CABLE RACKS.
3. PROVIDE FOUR 4" PVC CONDUITS-ONE WITH 200 PAIR COPPER CABLE, ONE WITH 24 STRAND FIBER IN INNERDUCT, TWO SPARES, EXTEND FROM EXISTING MANHOLE TO NEW MANHOLE. PROVIDE STEEL CONDUIT THROUGH MANHOLE WALL AND 5' BEYOND.
4. PROVIDE NEW 4'X4'X4' MANHOLE. SEE DETAIL. STUB OUT AND CAP TWO 4" CONDUITS TO THE EAST EASEMENT, TERMINATE 12 STRANDS OF FIBER CABLE IN THIS MANHOLE.
5. PROVIDE TWO 4" PVC CONDUITS FROM MANHOLE TO TELEPHONE ROOM, ONE WITH 200 PAIR COPPER, ONE WITH 12 STRAND FIBER IN INNERDUCT.
6. IN EXISTING TELEPHONE ROOM PROVIDE NEW PROTECTORS, FUSES, AND TERMINAL BLOCKS. TERMINATE 200 PAIR CABLE. PERFORM WORK, PROVIDE AND LOCATE CABLE AND EQUIPMENT AS DIRECTED.

(A) COMM/DATA SITE PLAN
 E1 SCALE :1"=60'-0"

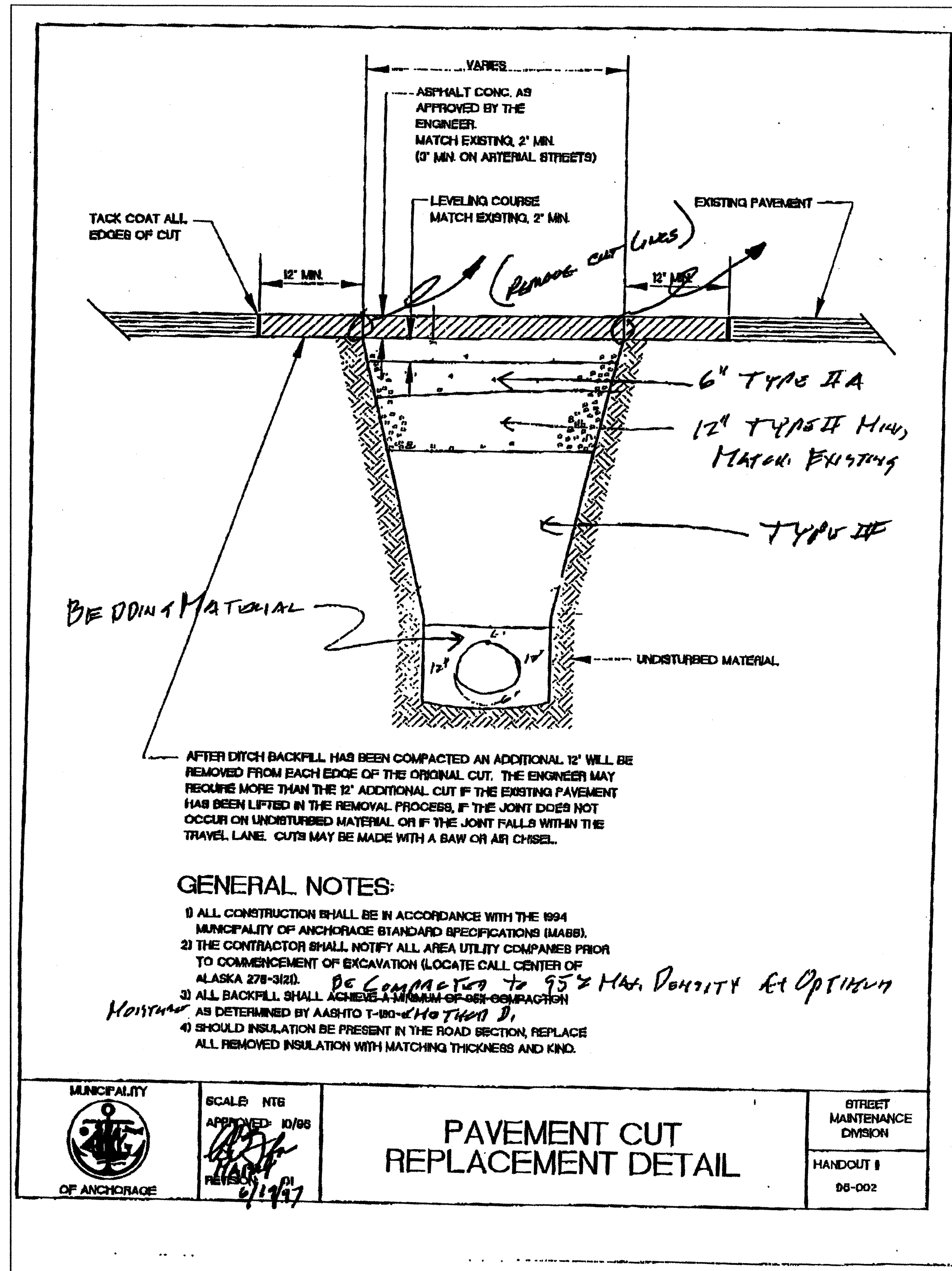


SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR:
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------------------------|---------|
| drawn | SNS |
| checked | |
| date | 5-13-02 |
| revisions | |
| 1 | 6-03-02 |
| 2 | 8-23-02 |
| job no. | 20152 |
| dwg. title | |
| COMM/DATA SITE PLAN & DETAIL | |
| sheet no. | |

100% SUBMITTAL

E-1

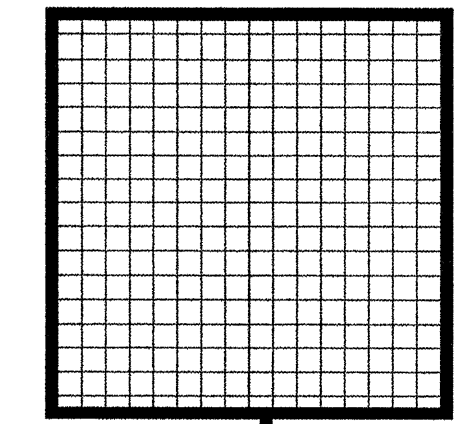


MUNICIPALITY OF ANCHORAGE
 SCALE: NTS
 APPROVED: 10/95
 REF: 6/1997

PAVEMENT CUT REPLACEMENT DETAIL

STREET MAINTENANCE DIVISION
 HANDOUT # 98-002

1 CONDUIT TRENCH SECTION
 NTS



kumin associates, inc.
 architects • planners • interior designers

2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
<http://www.kjagill.com>

Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
<http://www.sjoquist.com>

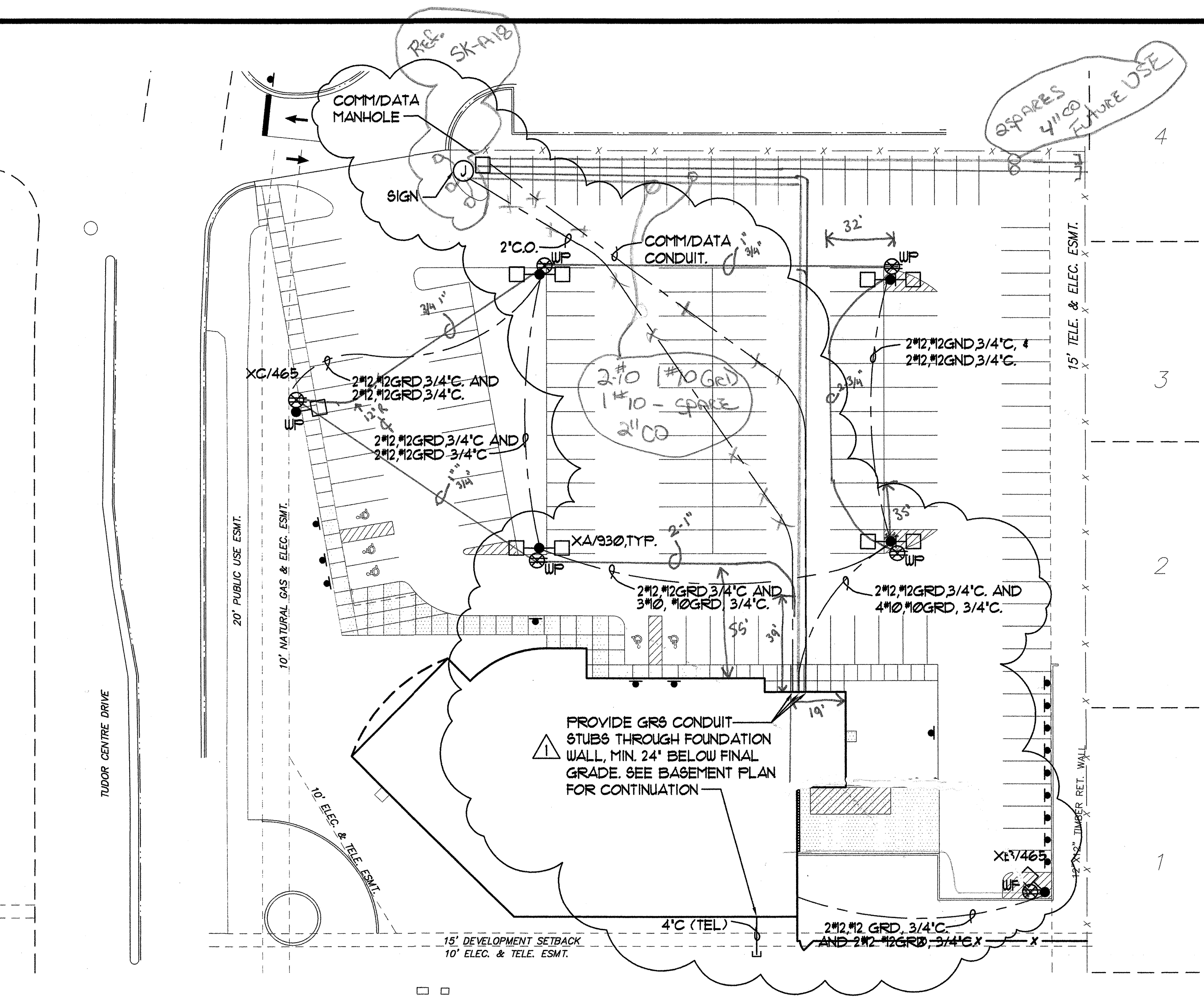
SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE ANCHORAGE ALASKA

FOOTING & FOUNDATION SUBMITTAL

| | |
|------------|---------------------------------|
| drawn | |
| checked | |
| date | 6-5-02 |
| revisions | |
| job no. | 20152 |
| dwg. title | PAVEMENT CUT REPLACEMENT DETAIL |
| sheet no. | E1.1 |

Plot Time: 09:57:60
 Plot Date: 05/31/02
 DWG Name: SAM:G:\C001DC00\ELECT\C001_EZ.dwg - 22X34

LOT 1A
 BLOCK 2



A ELECTRICAL SITE PLAN
 E2 SCALE : 1"=30'-0"

NOTE:
 UNDER SITE WORK GRADING PACKAGE, INSTALL POLE BASES AND CONDUIT ONLY. ADDITIONAL INFORMATION IS SHOWN FOR REFERENCE ONLY.

POLE BASE:
 8' DIA. PILES X 18' LONG, 1/2" WALL THICKNESS. LEAVE 3' OF PILE ABOVE GRADE AND PROVIDE CONCRETE SHROUD FOR TRAFFIC PROTECTION PER DETAIL 4, FILECO DRAWING, 6-01

| EXTERIOR LIGHTING FIXTURE SCHEDULE | | | | | |
|------------------------------------|-------|----------|-----------------------------|--|---|
| KEY | LAMPS | | MTG. HT. | DESCRIPTION | MANUFACTURERS NO. |
| | NO. | TYPE | | | |
| XA/930 | 2 | 400W M-H | 33' AFG. 30' POLE 3' 'BASE' | ARCHITECTURALLY STYLED AREA LIGHT, DIECAST ALUMINUM W/ GIC POLYESTER POWDER COAT, SINGLE LATCH CLOSURE, NO-TOOL MAINTENANCE. 480 VOLT, WHITE POLES & FIXTURES TWIN OPPOSED TYPE IV ASSEMBLY. | KIM #2B AR4 400MH 480 WH-P ROUND TAPERED STEEL POLE. |
| XB/465 | 1 | 400W M-H | 33' AFG. 30' POLE 3' 'BASE' | MATCH TYPE XA/930 EXCEPT SINGLE TYPE IV ASSEMBLY | KIM #1A AR 4 400MH 480 WH-P ROUND TAPERED STEEL POLE. |
| XC/465 | 1 | 400W M-H | 33' AFG. 30' POLE 3' 'BASE' | MATCH TYPE XA/930 EXCEPT SINGLE TYPE III ASSEMBLY. | KIM #1A AR 3 400MH 480 WH-P ROUND TAPERED STEEL POLE. |

CASTLE HEIGHTS

| LEGEND | | |
|--------|--|----------|
| ABBR. | EXPLANATION | SYMBOL |
| XFM | TRANSFORMER | [Symbol] |
| NIC | NOT IN CONTRACT | |
| CKT | CIRCUIT - NUMBER AS NOTED (TYP.) | CKT-XX |
| UN | UNLESS OTHERWISE NOTED | |
| A/ND | LIGHTING FIXTURE DESIGNATION - SEE SCHEDULE | |
| ETR | EXISTING TO REMAIN | |
| NL | NIGHT LIGHT | |
| UP | WEATHERPROOF | |
| E | EMERGENCY LIGHT, CIRCUIT, PANEL | |
| C | CONDUIT, CONCEALED, SIZE AS NOTED (TYP.) | |
| | CONDUIT, UNDERGROUND OR UNDERFLOOR | |
| | CONDUIT, EXPOSED | |
| FLEX | CONDUIT, FLEXIBLE | |
| | MULTI-OUTLET ASSEMBLY-RECEPTACLES AS INDICATED | |
| | HOMERUN TO PANEL/CIRCUITS AS NOTED | |
| X | WIRE COUNT OF # 12 UNLESS SPECIFIED | |
| UP | CONDUIT UP | |
| DN | CONDUIT DOWN | |
| PNL | PANELBOARD - SEE SCHEDULES | |
| | REFER TO INDICATED NOTE | |
| RECP | TELEPHONE RECEPTACLE | |
| | TELEPHONE RECEPTACLE IN FLOOR BOX | |
| | DUPLEX RECEPTACLE - NEMA 5-20R | |
| | QUADRIplex RECEPTACLE - NEMA 5-20R | |
| | DUPLEX RECEPTACLE - NEMA 5-20R GFCI TYPE | |
| | ISOLATED GRD DUPLEX RECEPTACLE - NEMA 5-20R | |
| | DUPLEX RECEPTACLE - NEMA 5-20R SPLIT WIRED | |
| | DUPLEX RECEPTACLE IN FLOOR BOX | |
| | RECEPTACLE - NEMA CONFIGURATION AS NOTED | |
| | TELEVISION RECEPTACLE | |
| J-BOX | JUNCTION BOX | |
| | SINGLE PHASE MOTOR - SIZE AS INDICATED | |
| | THREE PHASE MOTOR - SIZE AS INDICATED | |
| | MOTOR CONTROLLER | |
| | MOTOR DISCONNECT | |
| | COMBINATION STARTER/DISCONNECT | |
| SW | SWITCH - SINGLE POLE | |
| | SWITCH - TWO POLE | |
| | SWITCH - THREE WAY | |
| | SWITCH - FOUR WAY | |
| | SWITCH - DIMMING TYPE | |
| | SWITCH - WITH PILOT LIGHT | |
| | SWITCH - THERMAL OVERLOAD | |
| | SWITCH - LOW VOLTAGE | |
| | CALL-IN SWITCH | |
| | SWITCH - WITH TIMER | |
| FS | SPRINKLER FLOW SWITCH | |
| TS | SPRINKLER TAMPER SWITCH | |
| | PHOTOELECTRIC TYPE SMOKE DETECTOR | |
| | IONIZATION TYPE SMOKE DETECTOR | |
| | HEAT DETECTOR - F INDICATES FIXED TEMP ONLY C INDICATES ABOVE CEILING | |
| | RESIDENTIAL TYPE SMOKE DETECTOR | |
| | DUCT MOUNTED SMOKE DETECTOR | |
| | FIRE ALARM HORN/STROBE | |
| | FIRE ALARM STROBE | |
| | WEATHERPROOF FIRE ALARM HORN | |
| | FIRE ALARM MANUAL STATION | |
| FACP | FIRE ALARM CONTROL PANEL | |
| FANN | FIRE ALARM REMOTE ANNUNCIATOR | |
| TSTAT | THERMOSTAT | |
| | COMPUTER OUTLET | |
| | PUSHBUTTON SWITCH | |
| TTB/C | TELEPHONE TERMINAL BOARD/CABINET | |
| STBY | STANDBY CIRCUIT | |
| PC | PHOTOCELL | |
| TC | TIMECLOCK | |
| | CLOCK | |
| | COMBINATION CLOCK/SPEAKER | |
| | MAGNETIC DOOR SWITCH | |
| | SECURITY ALARM PANEL | |
| | SOUND/CLOCK CONSOLE | |
| SPKR | SPEAKER ASSEMBLY - CEILING MOUNTED | |
| | WALL MOUNTED SPEAKER ASSEMBLY | |
| | BELL | |
| | COMBINATION SPEAKER/CALL-IN SWITCH | |
| CCTV | CLOSED-CIRCUIT TELEVISION CAMERA | |
| | EXIT SIGN - SELF POWERED | |
| | BATTERY-POWERED EMERGENCY LIGHT | |
| | LIGHTING FIXTURES - VARIOUS TYPES AS NOTED | |
| | SHADING INDICATES EMERGENCY LIGHTING FIXTURE | |
| | DIAGONAL LINE INDICATES STANDBY FIXTURE | |
| | SMOKE DETECTOR | |
| | DOOR CHIMES | |
| | FAN W/ LIGHT | |

THIS IS A STANDARD LEGEND, ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY ON THE DRAWING(S).

PARKING LOT LIGHTING DESIGN MEETS OR EXCEEDS MUNICIPALITY OF ANCHORAGE TITLE 21 REQUIREMENTS AND IES RECOMMENDATIONS.

FOOTING & FOUNDATION SUBMITTAL

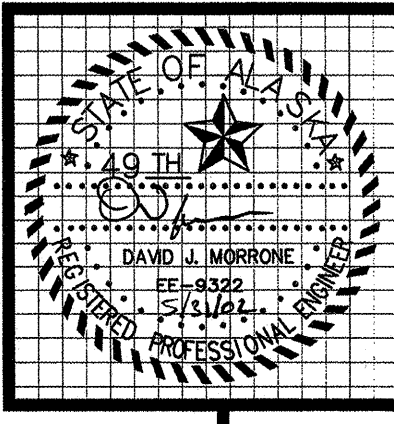
| | |
|------------|---|
| drawn | SNS |
| checked | |
| date | 6-3-02 |
| revisions | |
| | 6/3/2002 |
| job no. | 20152 |
| dwg. title | ELECTRICAL SITE PLAN FIXTURE & LEGEND |
| sheet no. | E-2 |

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR:
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

MBA Consulting Engineers, Inc.
 3812 Spennard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Sjoquist Architects, Inc.
 808 E. Street, Suite 200 • Anchorage, Alaska 99501 • (907) 272-8888
 2001 University Ave. SE #200
 Minneapolis, Minnesota 55414
 (612) 379-9233 Fax: (612) 379-9263
 http://www.sjoquist.com





MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Sjoquist Architects, Inc.
 2001 University Ave. SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
 http://www.sjoquist.com

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

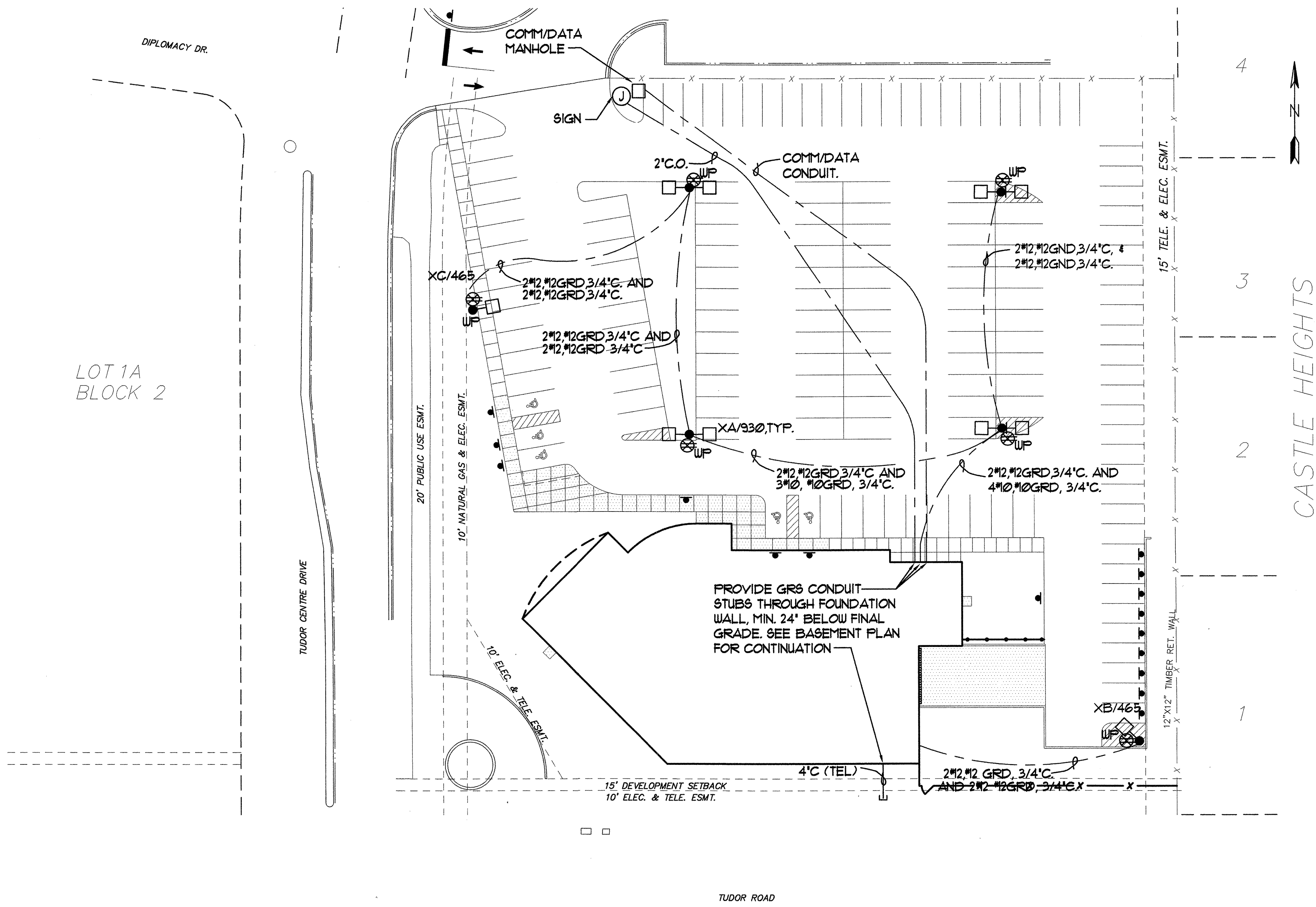
drawn SNS
 checked
 date 6-3-02
 revisions
 1 6-3-02
 2 8-23-02
 3 9-17-02
 Job no. 20152
 dwg. title
 ELECTRICAL SITE PLAN,
 SITE FIXTURE SCHEDULE
 & LEGEND
 sheet no.
E-2

100% SUBMITTAL

PARKING LOT LIGHTING DESIGN MEETS OR EXCEEDS MUNICIPALITY OF ANCHORAGE TITLE 21 REQUIREMENTS AND IES RECOMMENDATIONS.

| LEGEND | | |
|--------|--|----------|
| ABBR. | EXPLANATION | SYMBOL |
| XFR | TRANSFORMER | [Symbol] |
| NIC | NOT IN CONTRACT | |
| CKT | CIRCUIT - NUMBER AS NOTED (TYP.) | CKT-XX |
| UN | UNLESS OTHERWISE NOTED | |
| A/100 | LIGHTING FIXTURE DESIGNATION - SEE SCHEDULE | |
| ETR | EXISTING TO REMAIN | |
| NL | NIGHT LIGHT | |
| UP | WEATHERPROOF | |
| E | EMERGENCY LIGHT, CIRCUIT, PANEL | |
| C | CONDUIT, CONCEALED, SIZE AS NOTED (TYP.) | |
| | CONDUIT, UNDERGROUND OR UNDERFLOOR | |
| | CONDUIT, EXPOSED | |
| FLEX | CONDUIT, FLEXIBLE | |
| | MULTI-OUTLET ASSEMBLY-RECEPTACLES AS INDICATED | |
| | HOMERUN TO PANEL/CIRCUITS AS NOTED | |
| X | WIRE COUNT OF # 12 UNLESS SPECIFIED | |
| UP | CONDUIT UP | |
| DN | CONDUIT DOWN | |
| PNL | PANELBOARD - SEE SCHEDULES | |
| | REFER TO INDICATED NOTE | |
| RECP | TELEPHONE RECEPTACLE | |
| | TELEPHONE RECEPTACLE IN FLOOR BOX | |
| | DUPLEX RECEPTACLE - NEMA 5-20R | |
| | QUADRIPLUX RECEPTACLE - NEMA 5-20R | |
| | DUPLEX RECEPTACLE - NEMA 5-20R GFCI TYPE | |
| | ISOLATED GRD DUPLEX RECEPTACLE - NEMA 5-20R | |
| | DUPLEX RECEPTACLE - NEMA 5-20R SPLIT WIRED | |
| | DUPLEX RECEPTACLE IN FLOOR BOX | |
| | RECEPTACLE - (VERIFY TYPE WITH EQUIPMENT) | |
| | TELEVISION RECEPTACLE | |
| J-BOX | JUNCTION BOX | |
| | SINGLE PHASE MOTOR - SIZE AS INDICATED | |
| | THREE PHASE MOTOR - SIZE AS INDICATED | |
| | MOTOR CONTROLLER | |
| | MOTOR DISCONNECT | |
| | COMBINATION STARTER/DISCONNECT | |
| SW | SWITCH - SINGLE POLE | |
| | SWITCH - TWO POLE | |
| | SWITCH - THREE WAY | |
| | SWITCH - FOUR WAY | |
| | SWITCH - DIMMING TYPE | |
| | SWITCH - WITH PILOT LIGHT | |
| | SWITCH - THERMAL OVERLOAD | |
| | SWITCH - LOW VOLTAGE | |
| | CALL-IN SWITCH | |
| | SWITCH - WITH TIMER | |
| FS | SPRINKLER FLOW SWITCH | |
| TS | SPRINKLER TAMPER SWITCH | |
| | PHOTOELECTRIC TYPE SMOKE DETECTOR | |
| | IONIZATION TYPE SMOKE DETECTOR | |
| | HEAT DETECTOR - F INDICATES FIXED TEMP ONLY C INDICATES ABOVE CEILING | |
| | MULTISENSOR TYPE SMOKE DETECTOR | |
| | DUCT MOUNTED SMOKE DETECTOR | |
| | FIRE ALARM HORN/STROBE | |
| | FIRE ALARM STROBE | |
| | WEATHERPROOF FIRE ALARM HORN | |
| | FIRE ALARM MANUAL STATION | |
| FACP | FIRE ALARM CONTROL PANEL | |
| FANN | FIRE ALARM REMOTE ANNUNCIATOR | |
| TSTAT | THERMOSTAT | |
| | MAGNETIC DOOR HOLDER | |
| | PUSHBUTTON SWITCH | |
| TTB/C | TELEPHONE TERMINAL BOARD/CABINET | |
| STBY | STANDBY CIRCUIT | |
| PC | PHOTOCELL | |
| TC | TIMECLOCK | |
| | CABLE TRAY ROUTE | |
| | CABLE HANGER ROUTE | |
| | MAGNETIC DOOR SWITCH | |
| | SECURITY ALARM PANEL | |
| | X-RAY REMOTE CONTROL | |
| SPKR | SPEAKER ASSEMBLY - CEILING MOUNTED | |
| | WALL MOUNTED SPEAKER ASSEMBLY | |
| | BELL | |
| | SPEAKER VOLUME CONTROL | |
| CCTV | CLOSED-CIRCUIT TELEVISION CAMERA | |
| | EXIT SIGN - SELF POWERED | |
| | BATTERY-POWERED EMERGENCY LIGHT | |
| | LIGHTING FIXTURES - VARIOUS TYPES AS NOTED | |
| | SHADING INDICATES EMERGENCY LIGHTING FIXTURE | |
| | DIAGONAL LINE INDICATES STANDBY FIXTURE | |
| | OPEN STRIP FLUORESCENT FIXTURE | |
| | TWO LAMPS ON EMERGENCY | |
| | FAN W/ LIGHT | |

THIS IS A STANDARD LEGEND, ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY ON THE DRAWING(S).



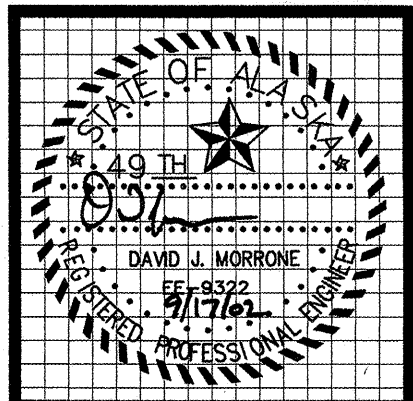
A ELECTRICAL SITE PLAN
 E2 SCALE :1"=30'-0"

NOTE:
 UNDER SITE WORK GRADING PACKAGE, INSTALL POLE BASES AND CONDUIT.
 INSTALL OTHER WORK UNDER SUBSEQUENT PHASE.

POLE BASE:
 8" DIA. PILES X 18" LONG, 1/2" WALL THICKNESS. LEAVE 3" OF PILE ABOVE GRADE AND PROVIDE CONCRETE SHROUD FOR TRAFFIC PROTECTION PER DETAIL 4, FILECO DRAWING, 8-01

| EXTERIOR LIGHTING FIXTURE SCHEDULE | | | | | |
|------------------------------------|-------|----------|-------------------------------|---|--|
| KEY | LAMPS | | MTG. HT. | DESCRIPTION | MANUFACTURERS NO. |
| | NO. | TYPE | | | |
| XA/930 | 2 | 400W M-H | 33' A.F.G. 30" POLE 3" "BASE" | ARCHITECTURALLY STYLED AREA LIGHT, DIECAST ALUMINUM W/TC POLYESTER POWDER COAT, SINGLE LATCH CLOSURE, NO-TOOL MAINTENANCE 480 VOLT, WHITE POLES & FIXTURES TWIN OPPOSED TYPE IV ASSEMBLY. | KIM #2B AR4 400MH 480 WH-P ROUND TAPERED STEEL. POLE. |
| XB/465 | 1 | 400W M-H | 33' A.F.G. 30" POLE 3" "BASE" | MATCH TYPE XA/930 EXCEPT SINGLE TYPE IV ASSEMBLY | KIM #1A AR 4 400MH 480 WH-P ROUND TAPERED STEEL. POLE. |
| XC/465 | 1 | 400W M-H | 33' A.F.G. 30" POLE 3" "BASE" | MATCH TYPE XA/930 EXCEPT SINGLE TYPE III ASSEMBLY. | KIM #1A AR 3 400MH 480 WH-P ROUND TAPERED STEEL. POLE. |

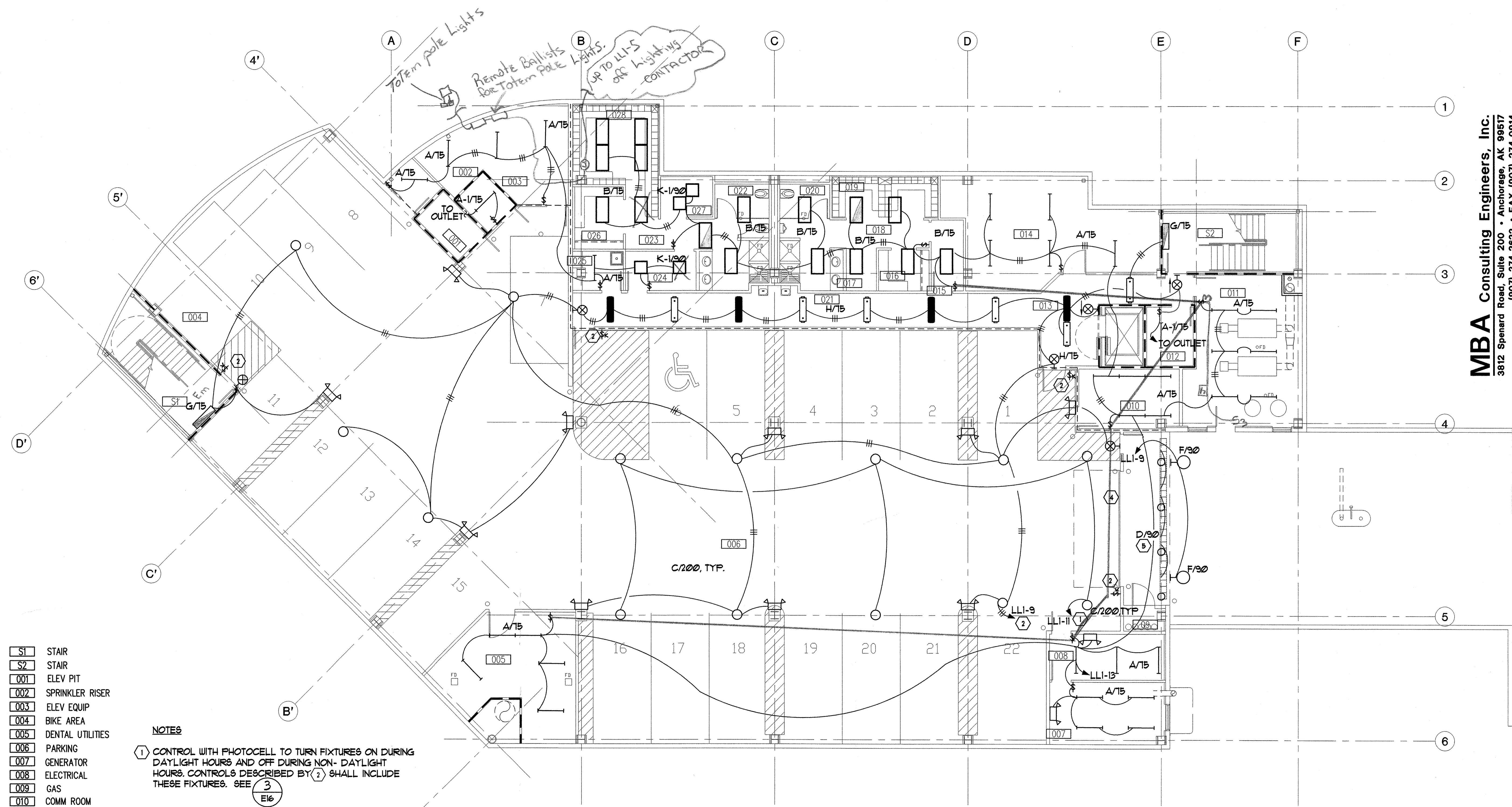
Plot Time: 14:48:14
 Plot Date: 09/17/02
 DWG Name: SAM:\G:\CO01\DC000\ELECT\CO01_E2.dwg - 22X34



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax 612.379.9263
<http://www.sjoquist.com>



- 001 STAIR
- 002 STAIR
- 003 ELEV PIT
- 004 SPRINKLER RISER
- 005 ELEV EQUIP
- 006 BIKE AREA
- 007 DENTAL UTILITIES
- 008 PARKING
- 009 GENERATOR
- 010 ELECTRICAL
- 011 GAS
- 012 COMM ROOM
- 013 BOILER ROOM
- 014 ELEV EQUIP
- 015 LOBBY
- 016 STORAGE
- 017 HALL
- 018 CLEAN SC.
- 019 DIRTY SC.
- 020 HALL
- 021 LOCKERS
- 022 MEN
- 023 HALL
- 024 WOMEN
- 025 HALL
- 026 JANITOR
- 027 CLEAN SC.
- 028 DIRTY SC.
- 029 LOCKERS

NOTES

- 1 CONTROL WITH PHOTOCELL TO TURN FIXTURES ON DURING DAYLIGHT HOURS AND OFF DURING NON-DAYLIGHT HOURS. CONTROLS DESCRIBED BY 2 SHALL INCLUDE THESE FIXTURES. SEE 3
- 2 PROVIDE MECHANICALLY HELD CONTACTOR ADJACENT TO SERVING PANELBOARD AND KEYED SWITCHES AS NOTED. SPDT MOMENTARY CONTACT TYPE. KEY SWITCHES TO MATCH BUILDING KEYS. PROVIDE TIMECLOCK ON/OFF. TIMECLOCK SHALL BE SEVEN-DAY ELECTRONIC TYPE AND LOCATED ADJACENT TO CONTACTOR. SEE 3
- 3 VERIFY CEILING TYPES PRIOR TO ORDERING LUMINAIRES.
- 4 CONTROL WITH BUILDING MOUNTED EXTERIOR LIGHTING - SEE NOTE 1, SHEET E6.
- 5 LOCATE FIXTURES TO AVOID CONFLICT WITH AIR INTAKE.
- 6 SEE REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.

BASEMENT LIGHTING PLAN

LIGHTING ANALYSIS FOR PARKING GARAGE

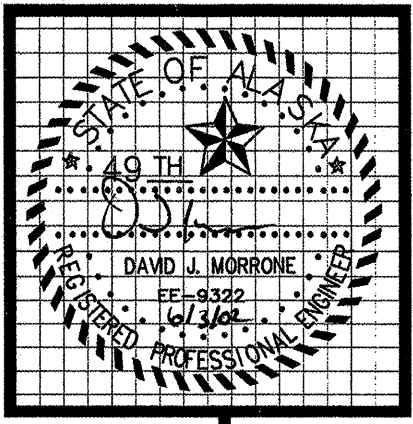
MINIMUM HORIZONTAL FC = 2.6
 MAX/MIN RATIO = 9:1
 AVG/MIN RATIO = 4.2:1

PARKING GARAGE LIGHTING DESIGN MEETS OR EXCEEDS MUNICIPALITY OF ANCHORAGE TITLE 21 REQUIREMENTS AND IES RECOMMENDATIONS.

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|---------------|
| drawn | SNS |
| checked | |
| date | 6-5-02 |
| revisions | |
| 1 | 7-17-02 |
| 2 | 8-23-02 |
| 3 | 9-17-02 |
| Job no. | 20152 |
| dwg. title | |
| | ELECTRICAL |
| | BASEMENT |
| | LIGHTING PLAN |
| sheet no. | E3 |

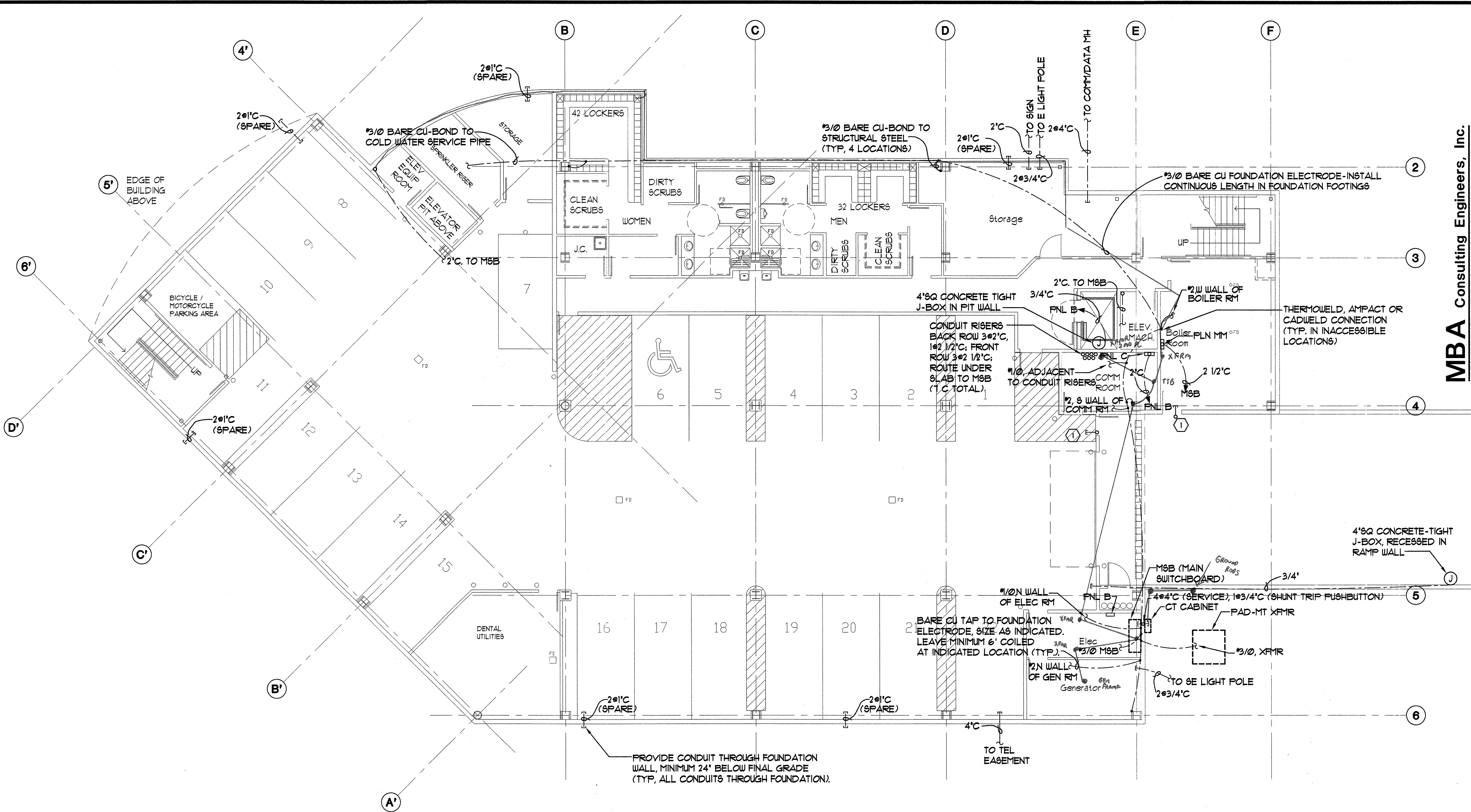
100% SUBMITTAL



MBA Consulting Engineers, Inc.
 3612 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 (612) 379-2233 Fax: 612.379.2233
 http://www.sjoquist.com



BASEMENT POWER PLAN
 E4 SCALE :1/8"=1'-0"

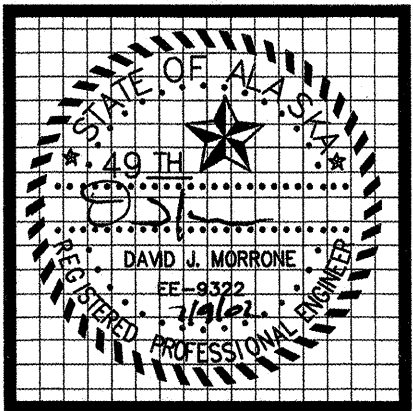
NOTE
 ① PROVIDE 3/4" CONDUIT FROM HEAD OF DOOR INTO ADJACENT SPACE FOR FUTURE SECURITY SYSTEM WIRING.

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE ALASKA

FOOTING & FOUNDATION SUBMITTAL

| | |
|------------|--------------------------------------|
| drawn | SNS |
| checked | |
| date | 6-3-02 |
| revisions | |
| job no. | 20152 |
| dwg. title | ELECTRICAL BASEMENT POWER PLAN |
| sheet no. | E-4 |

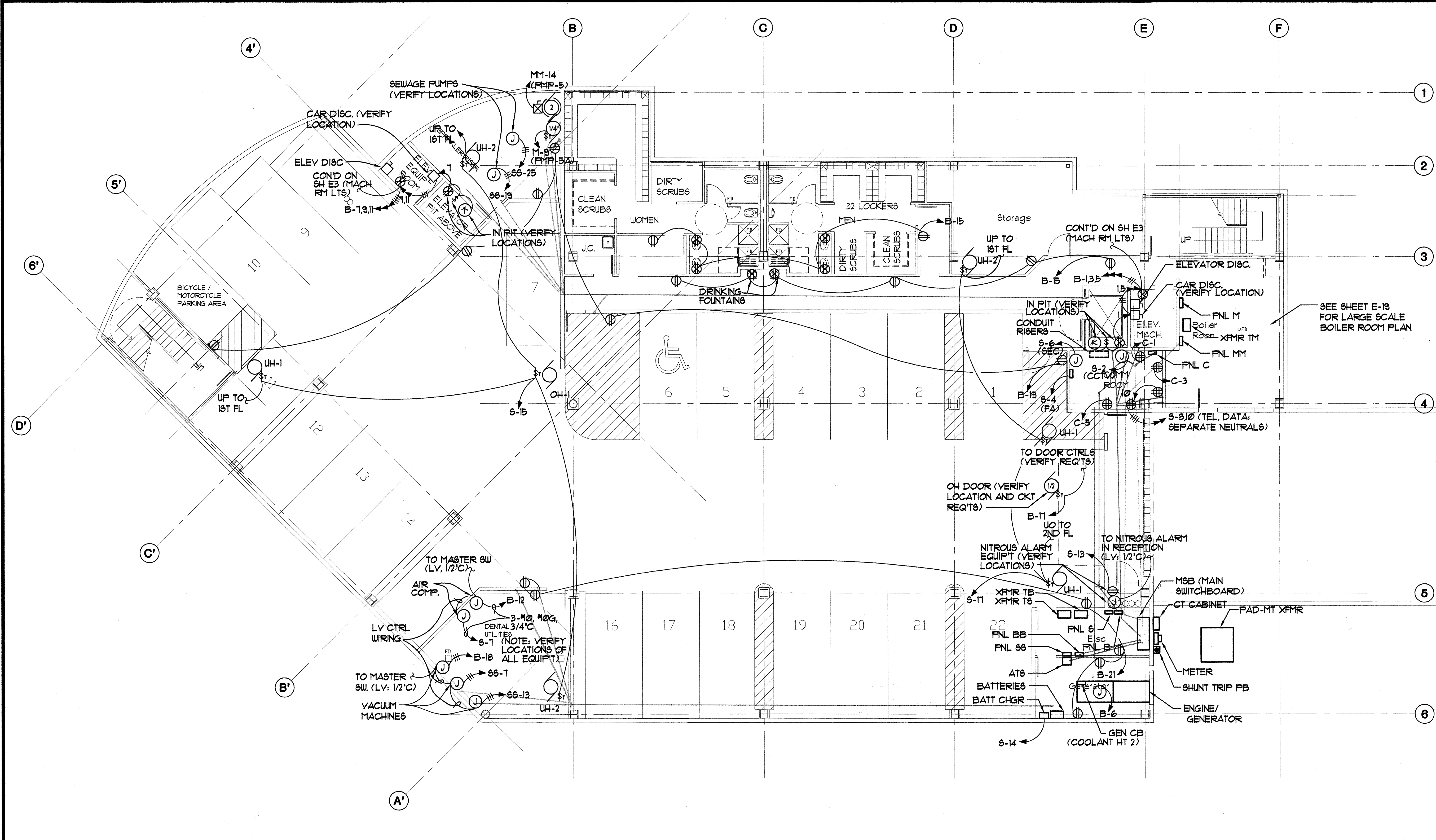
Plot Time: 14:24:10
 Plot Date: 05/31/02
 DWG Name: S:\M:\C001DC00\ELECT\C001_E4.dwg - Layout1



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.779.9233 Fax 612.779.9265
<http://www.sjoquist.com>



BASEMENT POWER PLAN
 E4.1 SCALE: 1/8"=1'-0"

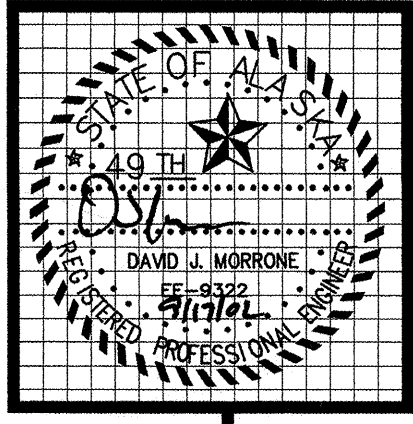
SEE SHEET E-19
 FOR LARGE SCALE
 BOILER ROOM PLAN

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

CORE & SHELL SUBMITTAL

| | |
|------------|--------------------------------------|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| job no. | 20152 |
| dwg. title | ELECTRICAL BASEMENT POWER PLAN |
| sheet no. | E-4.1 |

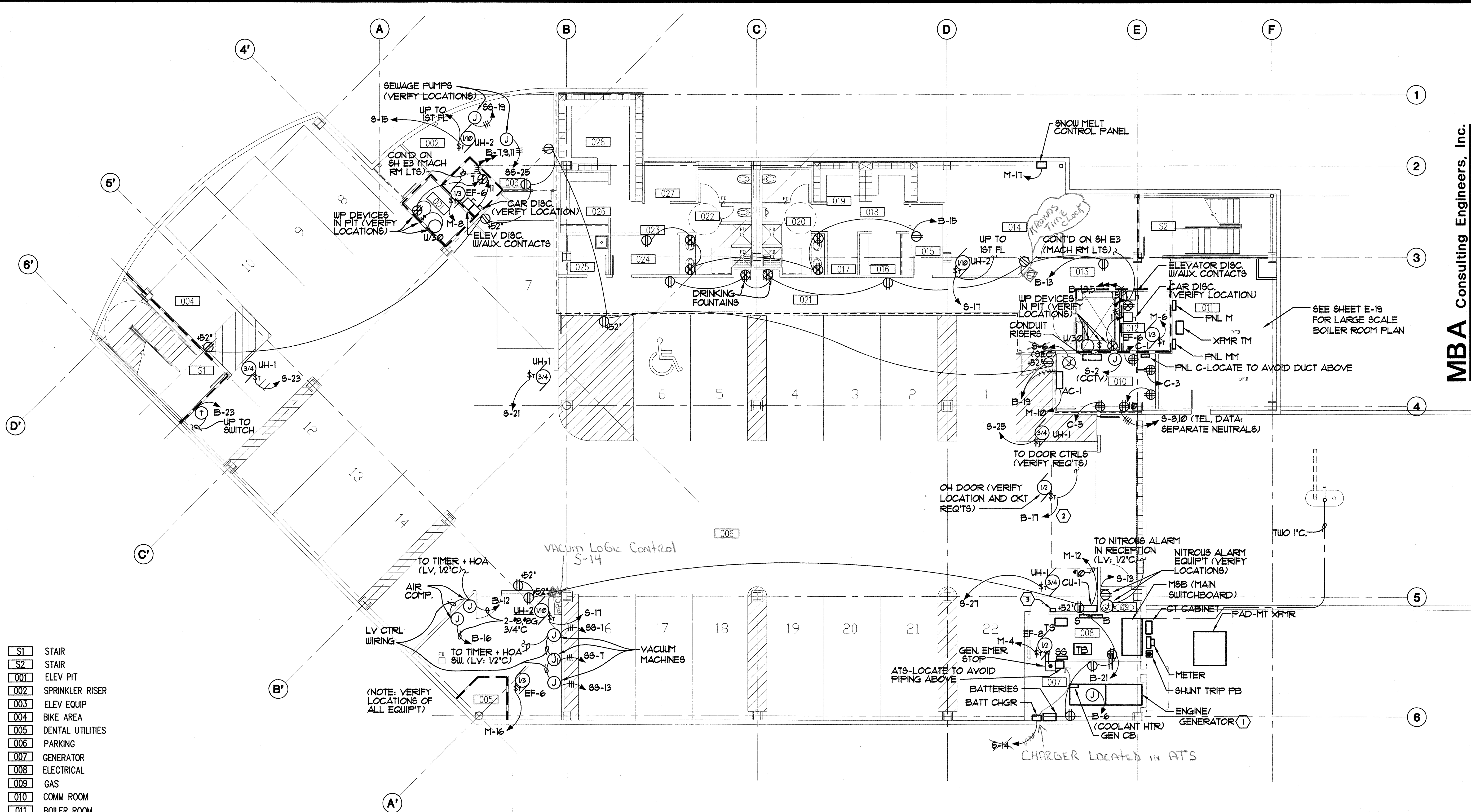
Plot Time: 16:27:23
 Plot Date: 07/08/02
 DWG Name: SAM::G:\C001DC000\ELECT\C001_E4.1.dwg - Layout1



MBA Consulting Engineers, Inc.
 3612 Spennard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Soquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax 612.379.9263
 http://www.sqiguit.com



- S1 STAIR
- S2 STAIR
- 001 ELEV PIT
- 002 SPRINKLER RISER
- 003 ELEV EQUIP
- 004 BIKE AREA
- 005 DENTAL UTILITIES
- 006 PARKING
- 007 GENERATOR
- 008 ELECTRICAL
- 009 GAS
- 010 COMM ROOM
- 011 BOILER ROOM
- 012 ELEV EQUIP
- 013 LOBBY
- 014 STORAGE
- 015 HALL
- 016 CLEAN SC.
- 017 DIRTY SC.
- 018 HALL
- 019 LOCKERS
- 020 MEN
- 021 HALL
- 022 WOMEN
- 023 HALL
- 024 HALL
- 025 JANITOR
- 026 CLEAN SC.
- 027 DIRTY SC.
- 028 LOCKERS

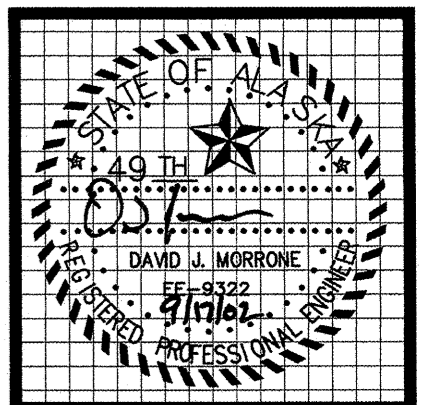
A BASEMENT POWER PLAN
 E4.1 SCALE :1/8"=1'-0"

- NOTES:**
- 1 PROVIDE SEISMIC VIBRATION ISOLATORS UNDER GENERATOR SKID. ACCEPTABLE MANUFACTURERS ARE MASON INDUSTRIES, CONSOLIDATED KINETICS CORPORATION, AND VIBRATION MOUNTING AND CONTROL ISOLATORS SHALL BE SIZED, LOCATED, AND QUANTIFIED AS RECOMMENDED BY MANUFACTURER FOR WEIGHT SUPPORTED AND SEISMIC DESIGN CATEGORY 'D' PER IBC 2000.
 - 2 CONNECT VEHICLE DETECTION LOOP TO OVERHEAD DOOR CONTROLS.
 - 3 GENERATOR MALFUNCTION ALARM.

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|--------------------------------|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| 1 | 8-23-02 |
| 2 | 9-17-02 |
| job no. | 20152 |
| dwg. title | ELECTRICAL BASEMENT POWER PLAN |
| sheet no. | E-4.1 |

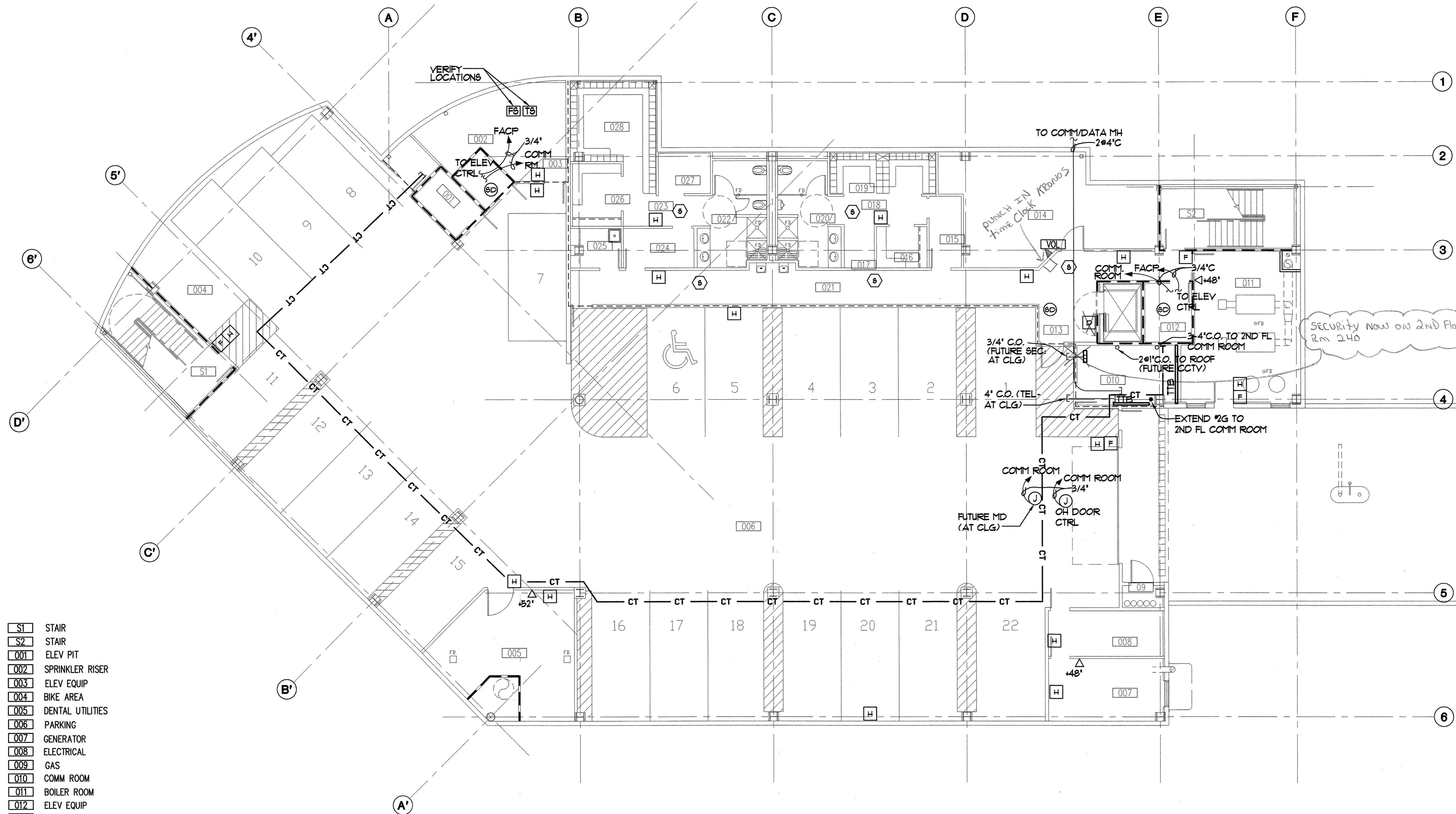
100% SUBMITTAL



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 808 E Street, Suite 200 • Anchorage, Alaska 99501 • (907) 272-9888

Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 (612) 379-9231 Fax: 612.379.9263
<http://www.sjoquist.com>



- S1 STAIR
- S2 STAIR
- 001 ELEV PIT
- 002 SPRINKLER RISER
- 003 ELEV EQUIP
- 004 BIKE AREA
- 005 DENTAL UTILITIES
- 006 PARKING
- 007 GENERATOR
- 008 ELECTRICAL
- 009 GAS
- 010 COMM ROOM
- 011 BOILER ROOM
- 012 ELEV EQUIP
- 013 LOBBY
- 014 STORAGE
- 015 HALL
- 016 CLEAN SC.
- 017 DIRTY SC.
- 018 HALL
- 019 LOCKERS
- 020 MEN
- 021 HALL
- 022 WOMEN
- 023 HALL
- 024 HALL
- 025 JANITOR
- 026 CLEAN SC.
- 027 DIRTY SC.
- 028 LOCKERS

BASEMENT SPECIAL SYSTEMS PLAN
 SCALE :1/8"=1'-0"

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|--|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| △ | 8-23-02 |
| job no. | 20152 |
| dwg. title | ELECTRICAL BASEMENT SPECIAL SYSTEMS PLAN |
| sheet no. | F-5 |

100% SUBMITTAL

Plot Time: 14:43:04
 Plot Date: 09/17/02
 DWG Name: SAM:\G:\CO01\DC00\ELECT\CO01_E5.dwg - Layout1



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 900 E street, suite 200 • anchorage, alaska 99501 • (907) 272-9833

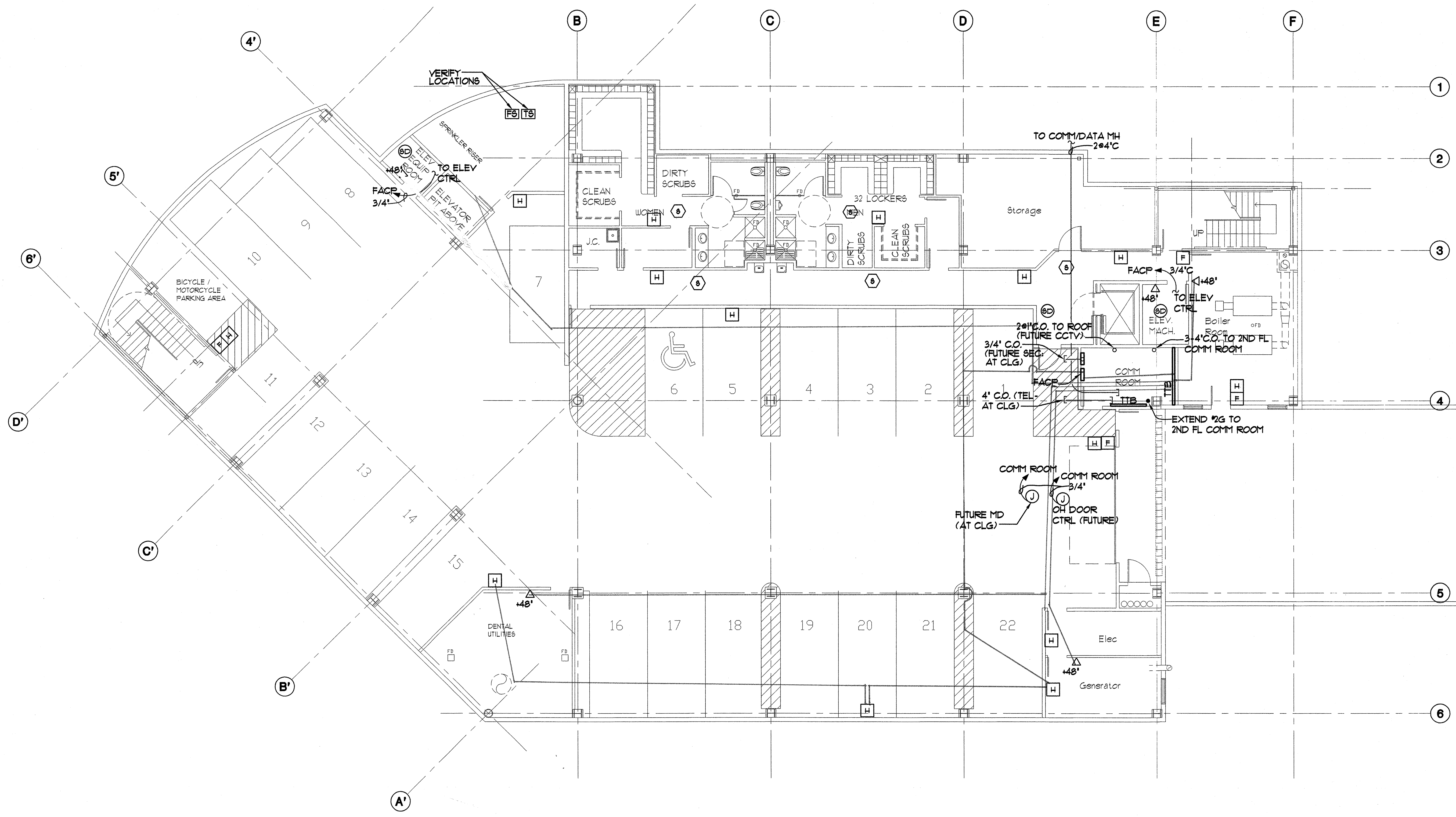
Sjoquist Architects, Inc.
 2001 University Ave. Ste #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax 612.379.9263
<http://www.sjoquist.com>

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

CORE & SHELL SUBMITTAL

| | |
|----------------------|--------|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| job no. | 20152 |
| dwg. title | |
| ELECTRICAL | |
| BASEMENT | |
| SPECIAL SYSTEMS PLAN | |
| sheet no. | |

E-5



BASEMENT SPECIAL SYSTEMS PLAN
 SCALE: 1/8" = 1'-0"

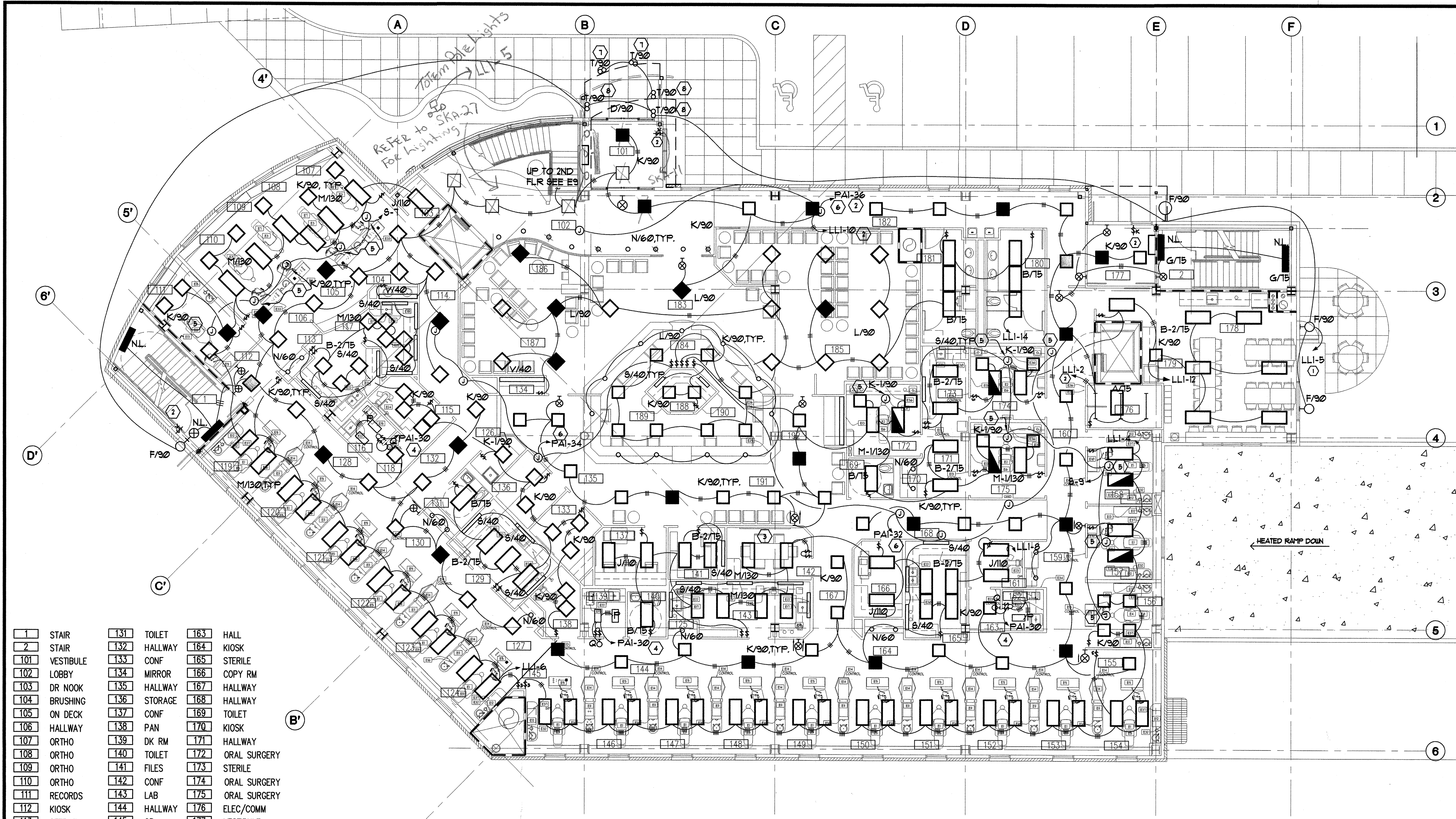
Plot Time: 16:25:52
 Plot Date: 07/08/02
 DWG Name: S:\M:\G:\0001\0000\ELECT\001_E5.dwg - Layout1



MBA Consulting Engineers, Inc.
 3812 Spennard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers

Soquist Architects, Inc.
 2001 University Ave SE #200
 Anchorage, Alaska 99514
 (907) 275-9888
 http://www.sqkum.com



| | | | | | |
|-----|----------------|-----|---------|-----|----------------|
| 1 | STAIR | 131 | TOILET | 163 | HALL |
| 2 | STAIR | 132 | HALLWAY | 164 | KIOSK |
| 101 | VESTIBULE | 133 | CONF | 165 | STERILE |
| 102 | LOBBY | 134 | MIRROR | 166 | COPY RM |
| 103 | DR NOOK | 135 | HALLWAY | 167 | HALLWAY |
| 104 | BRUSHING | 136 | STORAGE | 168 | HALLWAY |
| 105 | ON DECK | 137 | CONF | 169 | TOILET |
| 106 | HALLWAY | 138 | PAN | 170 | KIOSK |
| 107 | ORTHO | 139 | DK RM | 171 | HALLWAY |
| 108 | ORTHO | 140 | TOILET | 172 | ORAL SURGERY |
| 109 | ORTHO | 141 | FILES | 173 | STERILE |
| 110 | ORTHO | 142 | CONF | 174 | ORAL SURGERY |
| 111 | RECORDS | 143 | LAB | 175 | ORAL SURGERY |
| 112 | KIOSK | 144 | HALLWAY | 176 | ELEC/COMM |
| 113 | STERILE | 145 | OR | 177 | VESTIBULE |
| 114 | HALLWAY | 146 | OR | 178 | STAFF LOUNGE |
| 115 | PAN | 147 | OR | 179 | KIOSK |
| 116 | DK RM | 148 | OR | 180 | WOMEN |
| 117 | LAB | 149 | OR | 181 | MEN |
| 118 | HALL | 150 | OR | 182 | HALLWAY |
| 119 | OR | 151 | OR | 183 | RECEPTION |
| 120 | OR | 152 | OR | 184 | RECEPTIONIST |
| 121 | OR | 153 | OR | 185 | PATIENT LOUNGE |
| 122 | OR | 154 | OR | 186 | KIDS AREA |
| 123 | OR | 155 | HALLWAY | 187 | PATIENT LOUNGE |
| 124 | OR | 156 | ENDO OR | 188 | WORK AREA |
| 125 | KIOSK | 157 | OR | 189 | DISPLAY |
| 126 | JANITOR CLOSET | 158 | OR | 190 | DISPLAY |
| 127 | KIOSK | 159 | KIOSK | 191 | REAPPOINT |
| 128 | HALLWAY | 160 | HALLWAY | 192 | MIRROR |
| 129 | STERILE | 161 | PAN | | |
| 130 | KIOSK | 162 | DK RM | | |

- NOTES:**
- CONTROL THROUGH PHOTOCELL AND TIMELOCK WITH ON/OFF/AUTO ON NOT USED LOCATED ADJACENT TO SERVING PANELBOARD.
 - PROVIDE CONTROL THROUGH CORRIDOR LIGHTING CONTACTOR LOCATED ADJACENT TO SERVING PANELBOARD. CONTROL SIGNAL SHALL BE PROVIDED FROM SDPT MOMENTARY CONTACT KEYED SWITCHES LOCATED AS NOTED. CONTACTORS SHALL BE MECHANICALLY HELD, SQUARE D CLASS 8903 OR EQUAL. PROVIDE UNSWITCHED CONDUCTOR TO COMM ROOMS, EMERGENCY LIGHTS, AND EXIT SIGNS. CONTACTOR SHALL BE FOUR POLE MINIMUM TO ALLOW FOR SPARE CAPACITY.
 - SWITCH INNER AND OUTER LAMPS SEPARATELY.
 - SEE DARKROOM LIGHTING CONTROL DIAGRAM ON SHEET E-16.
 - J-BOX FOR CEILING MOUNTED EXAM LIGHT, COORDINATE EXACT LOCATION.
 - J-BOX FOR FUTURE TRACK LIGHTING. PROVIDE CONDUIT AND CONDUCTORS TO CIRCUIT INDICATED AND INSULATE CONDUCTOR ENDS IN BOX WITH WIRENUTS OR OTHER APPROVED METHOD.
 - MOUNT ON EDGE OF LOWER CANOPY. AIM BACK TOWARDS SIGN TO ACHIEVE EVEN ILLUMINATION OF SIGN. ARCHITECTURAL DETAILS BALLASTS SHALL BE REMOTE MOUNTED IN CEILING OF ROOM 101.
 - MOUNT AS SHOWN ON ARCHITECTURAL. AIM ONE FIXTURE IN EACH PAIR UP AND OUT AS UNDERSIDE OF CANOPY, AND THE OTHER FIXTURE GENERALLY DOWNWARD.

△ FIRST FLOOR LIGHTING PLAN
 E6 SCALE :1/8"=1'-0"

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|--------------------------------------|
| drawn | SNS |
| checked | |
| date | 8-23-02 |
| revisions | |
| △ | 6-23-02 |
| △ | 9-17-02 |
| job no. | 20152 |
| dwg. title | ELECTRICAL FIRST FLOOR LIGHTING PLAN |
| sheet no. | E6 |

100% SUBMITTAL

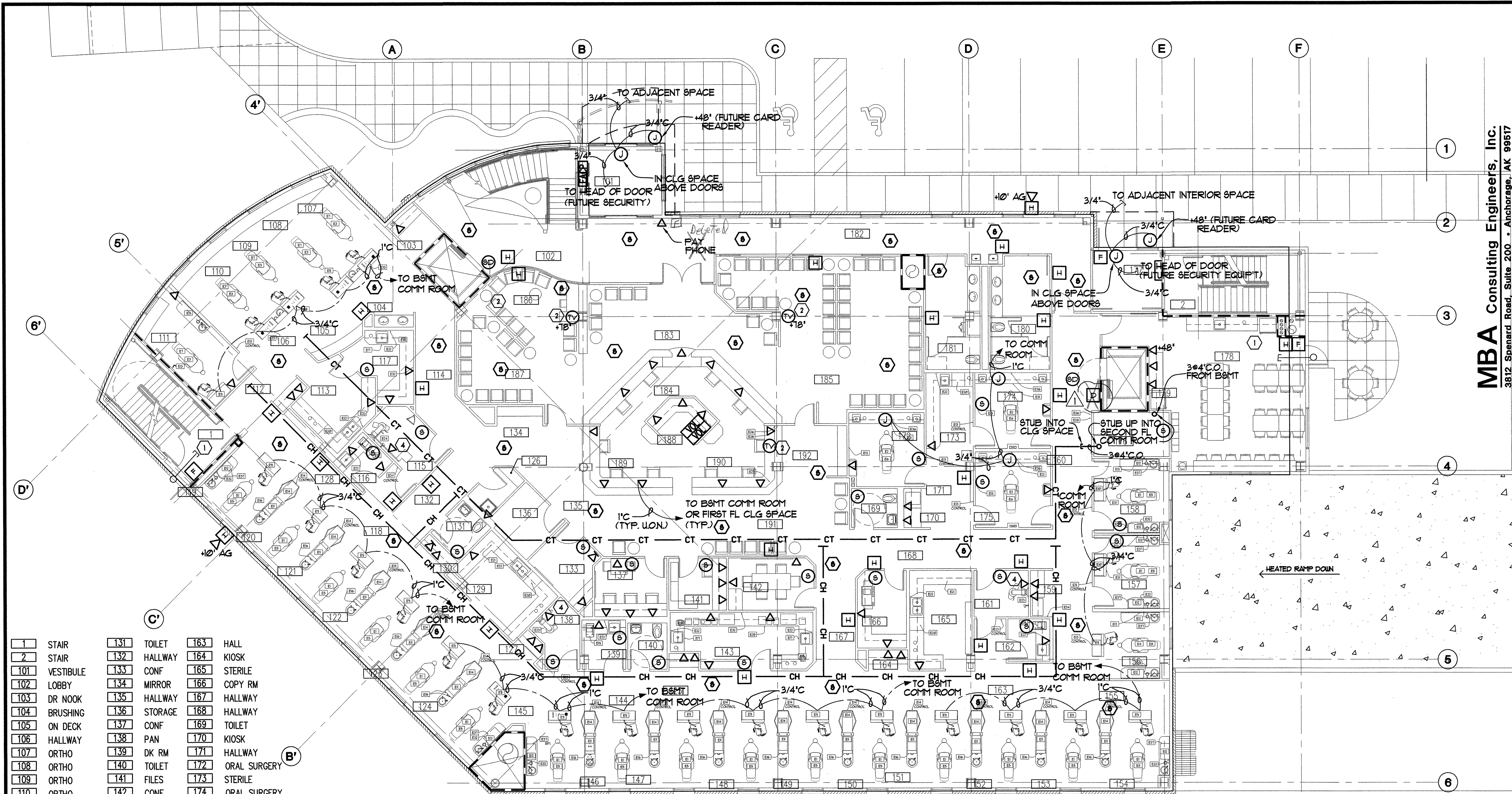
Plot Date: 09/17/02
 DWG Name: S:\M:\G:\C001DC00\ELEC\C001_E6.dwg - Layout1



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 808 E Street, Suite 200 • Anchorage, Alaska 99501 • (907) 272-8888

Sjoquist Architects, Inc.
 2001 University Ave. SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
 http://www.sjoquist.com



| | | | | | |
|-----|----------------|-----|---------|-----|---------------|
| 1 | STAIR | 131 | TOILET | 163 | HALL |
| 2 | STAIR | 132 | HALLWAY | 164 | KIOSK |
| 101 | VESTIBULE | 133 | CONF | 165 | STERILE |
| 102 | LOBBY | 134 | MIRROR | 166 | COPY RM |
| 103 | DR NOOK | 135 | HALLWAY | 167 | HALLWAY |
| 104 | BRUSHING | 136 | STORAGE | 168 | HALLWAY |
| 105 | ON DECK | 137 | CONF | 169 | TOILET |
| 106 | HALLWAY | 138 | PAN | 170 | KIOSK |
| 107 | ORTHO | 139 | DK RM | 171 | HALLWAY |
| 108 | ORTHO | 140 | TOILET | 172 | ORAL SURGERY |
| 109 | ORTHO | 141 | FILES | 173 | STERILE |
| 110 | ORTHO | 142 | CONF | 174 | ORAL SURGERY |
| 111 | RECORDS | 143 | LAB | 175 | ORAL SURGERY |
| 112 | KIOSK | 144 | HALLWAY | 176 | ELEC/COMM |
| 113 | STERILE | 145 | OR | 177 | VESTIBULE |
| 114 | HALLWAY | 146 | OR | 178 | STAFF LOUNGE |
| 115 | PAN | 147 | OR | 179 | KIOSK |
| 116 | DK RM | 148 | OR | 180 | WOMEN |
| 117 | LAB | 149 | OR | 181 | MEN |
| 118 | HALL | 150 | OR | 182 | HALLWAY |
| 119 | OR | 151 | OR | 183 | RECEPTION |
| 120 | OR | 152 | OR | 184 | RECEPTIONIST |
| 121 | OR | 153 | OR | 185 | PARENT POUNGE |
| 122 | OR | 154 | OR | 186 | KIDS AREA |
| 123 | OR | 155 | HALLWAY | 187 | PARENT POUNGE |
| 124 | OR | 156 | ENDO OR | 188 | WORK AREA |
| 125 | KIOSK | 157 | OR | 189 | DISPLAY |
| 126 | JANITOR CLOSET | 158 | OR | 190 | DISPLAY |
| 127 | KIOSK | 159 | KIOSK | 191 | REAPPOINT |
| 128 | HALLWAY | 160 | HALLWAY | 192 | MIRROR |
| 129 | STERILE | 161 | PAN | | |
| 130 | KIOSK | 162 | DK RM | | |

A FIRST FLOOR SIGNAL PLAN
 E8 SCALE :1/8"=1'-0"

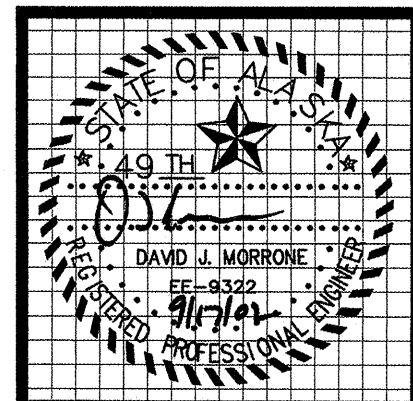
- NOTE**
- 1 PROVIDE 3/4" C FROM HEAD OF DOOR INTO ADJACENT SPACE FOR FUTURE SECURITY SYSTEM WIRING.
 - 2 PROVIDE EACH TV OUTLET WITH TYPE G CONNECTOR FACE PLATE, RG-6/U CABLE TO SPLITTER IN FLUSH J-BOX ADJACENT TO TV OUTLET AT RECEPTION DESK. CONNECT RECEPTION DESK OUTLET AS INPUT, OTHER OUTLETS AS OUTPUTS.
 3. SEE ARCHITECTURAL ELEVATIONS FOR OUTLET LOCATIONS.
 - 4 PROVIDE OUTLET BOX WITH BLANK COVER 1" CONDUIT TO ADJACENT CABLE HANGER/CABLE TRAY LOCATING.

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR:
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|------------------------------------|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| 1 | 8-23-02 |
| 2 | 9-17-02 |
| job no. | 20152 |
| dwg. title | ELECTRICAL FIRST FLOOR SIGNAL PLAN |
| sheet no. | E8 |

100% SUBMITTAL

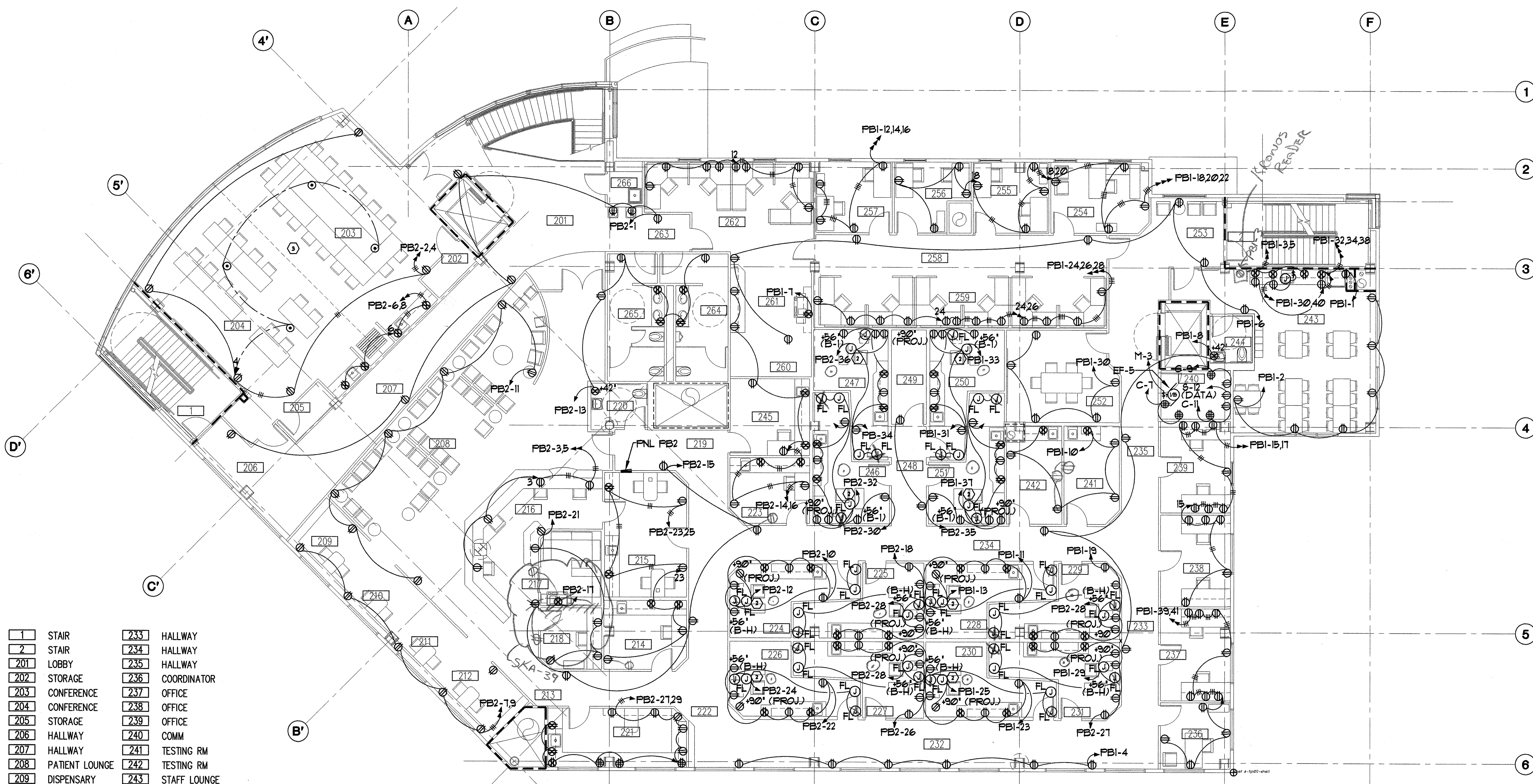
Plot time: 09/17/02
 Plot Date: 09/17/02
 DWG Name: S:\M\G\001000\ELECT\C001_E8.dwg - Layout1



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 800 E street, suite 200 • anchorage, alaska 99501 • (907) 772-8833

Sjoquist Architects, Inc.
 2007 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
<http://www.sjoquist.com>



| | | | |
|-----|-----------------|-----|-------------------|
| 1 | STAIR | 233 | HALLWAY |
| 2 | STAIR | 234 | HALLWAY |
| 201 | LOBBY | 235 | HALLWAY |
| 202 | STORAGE | 236 | COORDINATOR |
| 203 | CONFERENCE | 237 | OFFICE |
| 204 | CONFERENCE | 238 | OFFICE |
| 205 | STORAGE | 239 | OFFICE |
| 206 | HALLWAY | 240 | COMM |
| 207 | HALLWAY | 241 | TESTING RM |
| 208 | PATIENT LOUNGE | 242 | TESTING RM |
| 209 | DISPENSARY | 243 | STAFF LOUNGE |
| 210 | DISPENSARY | 244 | TOILET |
| 211 | DISPENSARY | 245 | PRETEST EXAM |
| 212 | DISPENSARY | 246 | EXAM |
| 213 | HALLWAY | 247 | EXAM |
| 214 | PRETEST EXAM | 248 | HALLWAY |
| 215 | CONTACT LENS | 249 | STOR |
| 216 | RECEPTIONIST | 250 | EXAM |
| 217 | FILES | 251 | EXAM |
| 218 | BUSINESS OFFICE | 252 | CONF |
| 219 | HALLWAY | 253 | HALLWAY |
| 220 | TOILET | 254 | DENTAL DIRECTOR'S |
| 221 | LAB | 255 | OFFICE |
| 222 | MIRROR | 256 | OFFICE |
| 223 | PRETEST EXAM | 257 | OFFICE |
| 224 | EXAM | 258 | HALLWAY |
| 225 | EXAM | 259 | WORK STATIONS |
| 226 | EXAM | 260 | STOR |
| 227 | EXAM | 261 | WORK AREA |
| 228 | EXAM | 262 | WORK STATIONS |
| 229 | EXAM | 263 | HALLWAY |
| 230 | EXAM | 264 | MEN'S |
| 231 | EXAM | 265 | WOMEN'S |
| 232 | HALLWAY | 266 | JAN |

SECOND FLOOR POWER PLAN
 SCALE: 1/8" = 1'-0"

⊙ = Floor Boxes → REFER to Panel Schedules for ASSIGNED CIRCUITS

NOTES

- SEE ARCHITECTURAL ELEVATIONS FOR RECEPTACLE LOCATIONS.
- EQUIP'T HARDWARE BOX ABOVE CEILING. COORDINATE WITH EQUIP'T SUPPLIER FOR CONNECTIONS BETWEEN HARDWARE BOX AND AUXILIARY EQUIPMENT.
- PROVIDE WALKER #882M2 TWO GANG SHALLOW FLOOR BOX WITH #821B BRASS CARPET FLANGE, #828R BRASS RECEPTACLE COVER PLATE, #828GF OR #829S DATA COVER PLATE AS APPROPRIATE.

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|--|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| 1 | 8-25-02 |
| 2 | 9-17-02 |
| job no. | 20152 |
| dwg. title | ELECTRICAL SECOND FLOOR POWER PLAN |
| sheet no. | E10 |

100% SUBMITTAL



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2822 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 808 E sheet, suite 200 • anchorage, alaska 99501 • (907) 272-8833

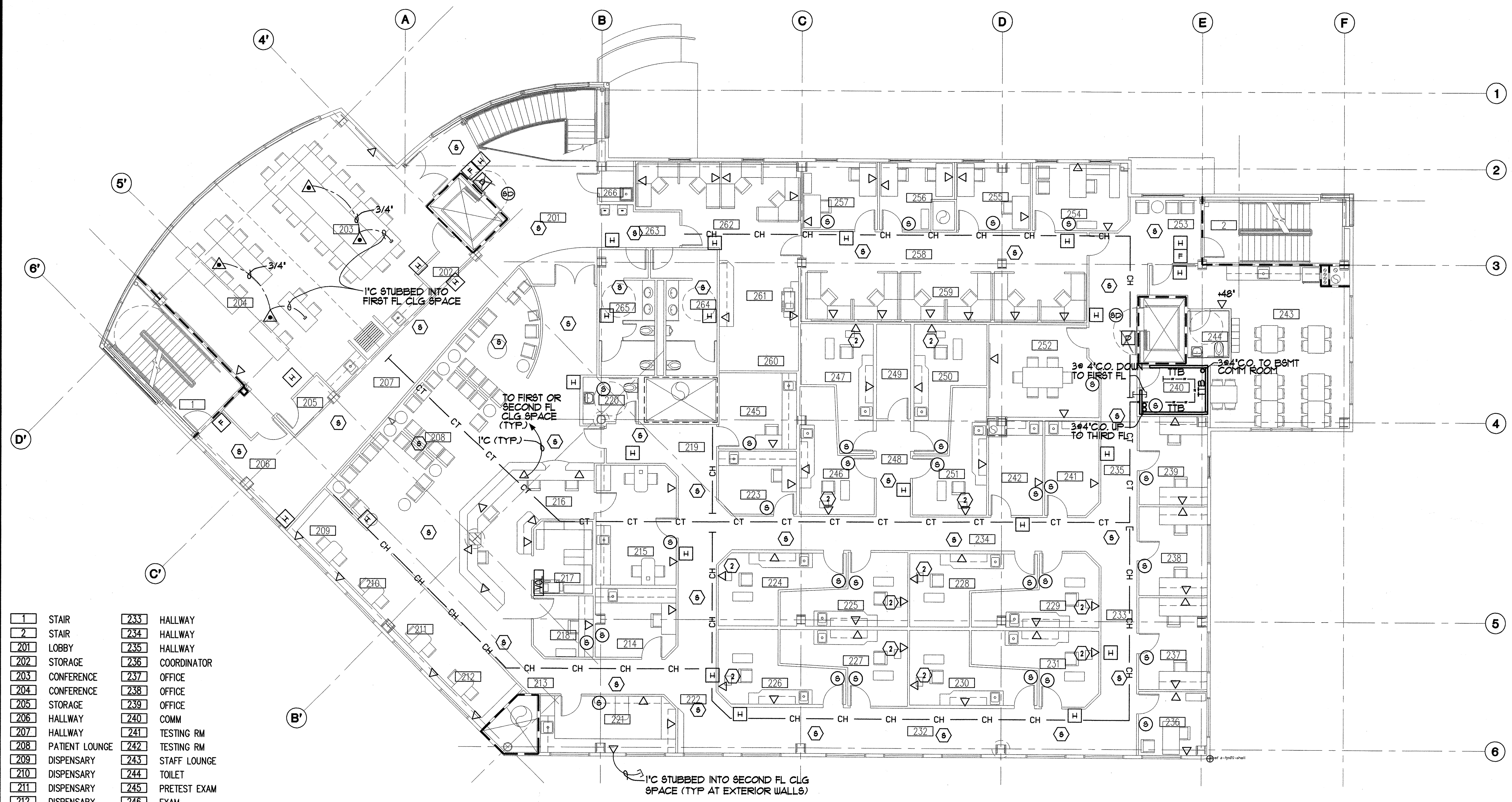
Sjoquist Architects, Inc.
 2001 University Ave #E #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
<http://www.sjoquist.com>

SOUTHCENTRAL FOUNDATION
NEW CLINIC FOR
DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|---|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| △ | 8-23-02 |
| △ | 9-17-02 |
| job no. | 20152 |
| dwp. title | |
| | ELECTRICAL SECOND FLOOR SIGNAL PLAN |
| sheet no. | |

100% SUBMITTAL

E11



| | | | |
|-----|-----------------|-----|-------------------|
| 1 | STAIR | 233 | HALLWAY |
| 2 | STAIR | 234 | HALLWAY |
| 201 | LOBBY | 235 | HALLWAY |
| 202 | STORAGE | 236 | COORDINATOR |
| 203 | CONFERENCE | 237 | OFFICE |
| 204 | CONFERENCE | 238 | OFFICE |
| 205 | STORAGE | 239 | OFFICE |
| 206 | HALLWAY | 240 | COMM |
| 207 | HALLWAY | 241 | TESTING RM |
| 208 | PATIENT LOUNGE | 242 | TESTING RM |
| 209 | DISPENSARY | 243 | STAFF LOUNGE |
| 210 | DISPENSARY | 244 | TOILET |
| 211 | DISPENSARY | 245 | PRETEST EXAM |
| 212 | DISPENSARY | 246 | EXAM |
| 213 | HALLWAY | 247 | EXAM |
| 214 | PRETEST EXAM | 248 | HALLWAY |
| 215 | CONTACT LENS | 249 | STOR |
| 216 | RECEPTIONIST | 250 | EXAM |
| 217 | FILES | 251 | EXAM |
| 218 | BUSINESS OFFICE | 252 | CONF |
| 219 | HALLWAY | 253 | HALLWAY |
| 220 | TOILET | 254 | DENTAL DIRECTOR'S |
| 221 | LAB | 255 | OFFICE |
| 222 | MIRROR | 256 | OFFICE |
| 223 | PRETEST EXAM | 257 | OFFICE |
| 224 | EXAM | 258 | HALLWAY |
| 225 | EXAM | 259 | WORK STATIONS |
| 226 | EXAM | 260 | STOR |
| 227 | EXAM | 261 | WORK AREA |
| 228 | EXAM | 262 | WORK STATIONS |
| 229 | EXAM | 263 | HALLWAY |
| 230 | EXAM | 264 | MEN'S |
| 231 | EXAM | 265 | WOMEN'S |
| 232 | HALLWAY | 266 | JAN |

SECOND FLOOR SIGNAL PLAN
 SCALE : 1/8"=1'-0"

Plot time: 14:55:23
 Plot Date: 09/17/02
 DWG Name: \\SAMI\G:\C001\DC000\ELECT\C001_LE11.dwg - Layout1



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

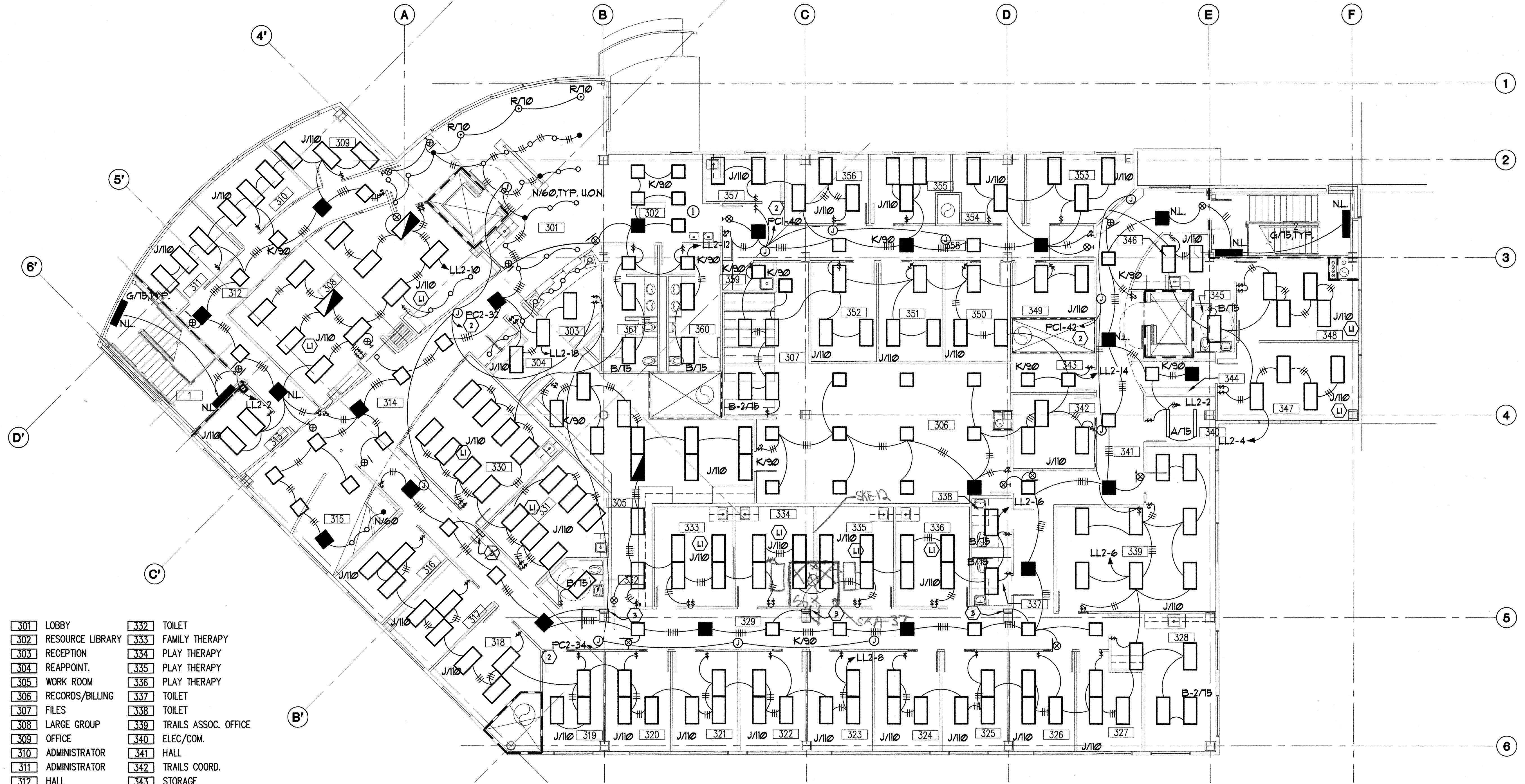
kumin associates, inc.
 architects • planners • interior designers

Soquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
 http://www.soquist.com

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

drawn: SNS
 checked:
 date: 8-23-02
 revisions:
 8-23-02
 9-17-02
 Job no.: 20152
 dwg. title:
 ELECTRICAL
 THIRD FLOOR
 LIGHTING PLAN
 sheet no.:
E12

100% SUBMITTAL

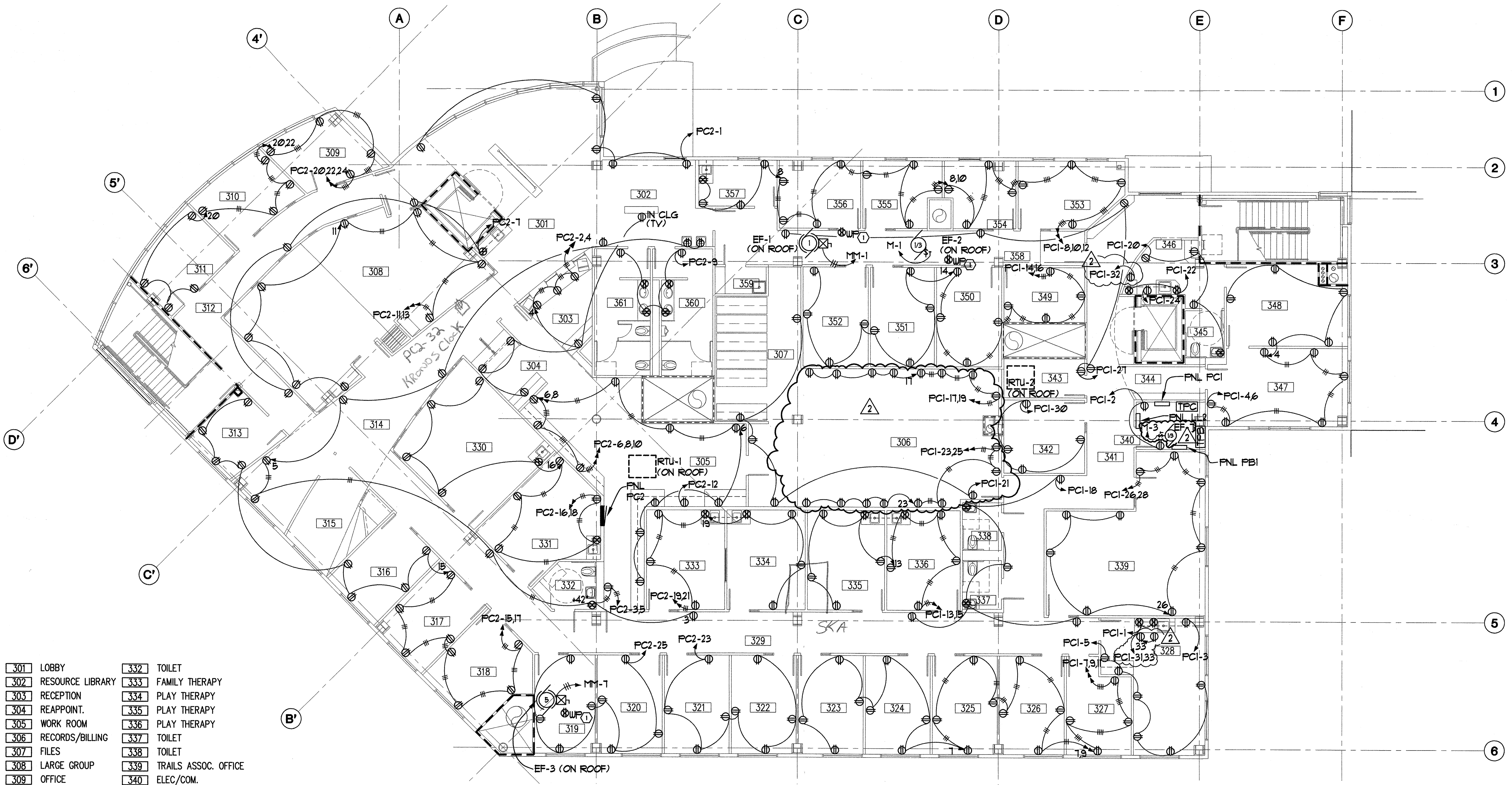


| | |
|----------------------|--------------------------|
| 301 LOBBY | 332 TOILET |
| 302 RESOURCE LIBRARY | 333 FAMILY THERAPY |
| 303 RECEPTION | 334 PLAY THERAPY |
| 304 REAPPOINT. | 335 PLAY THERAPY |
| 305 WORK ROOM | 336 PLAY THERAPY |
| 306 RECORDS/BILLING | 337 TOILET |
| 307 FILES | 338 TOILET |
| 308 LARGE GROUP | 339 TRAILS ASSOC. OFFICE |
| 309 OFFICE | 340 ELEC./COM. |
| 310 ADMINISTRATOR | 341 HALL |
| 311 ADMINISTRATOR | 342 TRAILS COORD. |
| 312 HALL | 343 STORAGE |
| 313 OFFICE | 344 TRAILS HALL |
| 314 WAITING/HALL | 345 TOILET |
| 315 PLAY AREA | 346 TRAILS COM |
| 316 INTAKE | 347 TRAILS GROUP |
| 317 ELIGIBILITY | 348 TRAILS GROUP |
| 318 OFFICE | 349 TESTING |
| 319 OFFICE | 350 OFFICE |
| 320 OFFICE | 351 OFFICE |
| 321 OFFICE | 352 OFFICE |
| 322 OFFICE | 353 OFFICE |
| 323 OFFICE | 354 OFFICE |
| 324 OFFICE | 355 OFFICE |
| 325 OFFICE | 356 OFFICE |
| 326 OFFICE | 357 MEDICAL |
| 327 OFFICE | 358 HALL |
| 328 STAFF LOUNGE | 359 JAN |
| 329 HALL | 360 MEN |
| 330 GROUP | 361 WOMEN |

A THIRD FLOOR LIGHTING PLAN
 E12 SCALE: 1/8"=1'-0"

- NOTES**
- (L) SWITCH INNER AND OUTER LAMPS SEPARATELY
 - (2) J-BOX FOR FUTURE TRUCK LIGHTING. PROVIDE CONDUIT AND CONDUCTORS TO CIRCUIT INDICATED AND INSULATE CONDUCTOR ENDS IN BOX WITH WIRENUTS OR OTHER APPROVED METHOD.
 - (3) PROVIDE FOUR V/40 FIXTURES AT NOTED LOCATION, TWO VERTICALLY ON EITHER SIDE OF COLUMN. SEE ARCHITECTURAL FOR MOUNTING DETAILS.

Plot Time: 15:00:19
 Plot Date: 09/17/02
 DWG Name: S:\M:\G:\C001\DC00\ELECT\C001_E12.dwg - Layout1



| | |
|----------------------|--------------------------|
| 301 LOBBY | 332 TOILET |
| 302 RESOURCE LIBRARY | 333 FAMILY THERAPY |
| 303 RECEPTION | 334 PLAY THERAPY |
| 304 REAPPOINT. | 335 PLAY THERAPY |
| 305 WORK ROOM | 336 PLAY THERAPY |
| 306 RECORDS/BILLING | 337 TOILET |
| 307 FILES | 338 TOILET |
| 308 LARGE GROUP | 339 TRAILS ASSOC. OFFICE |
| 309 OFFICE | 340 ELEC./COM. |
| 310 ADMINISTRATOR | 341 HALL |
| 311 ADMINISTRATOR | 342 TRAILS COORD. |
| 312 HALL | 343 STORAGE |
| 313 OFFICE | 344 TRAILS HALL |
| 314 WAITING/HALL | 345 TOILET |
| 315 PLAY AREA | 346 TRAILS COM |
| 316 INTAKE | 347 TRAILS GROUP |
| 317 ELIGIBILITY | 348 TRAILS GROUP |
| 318 OFFICE | 349 TESTING |
| 319 OFFICE | 350 OFFICE |
| 320 OFFICE | 351 OFFICE |
| 321 OFFICE | 352 OFFICE |
| 322 OFFICE | 353 OFFICE |
| 323 OFFICE | 354 OFFICE |
| 324 OFFICE | 355 OFFICE |
| 325 OFFICE | 356 OFFICE |
| 326 OFFICE | 357 MEDICAL |
| 327 OFFICE | 358 HALL |
| 328 STAFF LOUNGE | 359 JAN |
| 329 HALL | 360 MEN |
| 330 GROUP | 361 WOMEN |
| 331 GROUP | |

THIRD FLOOR POWER PLAN
 E13 SCALE :1/8"=1'-0"

NOTE:
 1. PROVIDE RECEPTACLE ON ROOF ADJACENT TO MECHANICAL EQUIPMENT, CIRCUIT PC1-29.
 2. SEE ARCHITECTURAL ELEVATIONS FOR RECEPTACLE LOCATIONS.



MBA Consulting Engineers, Inc.
 3812 Spensard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

kumin associates, inc.
 architects • planners • interior designers
 808 E street, suite 200 • anchorage, alaska 99501 • (907) 275-9833

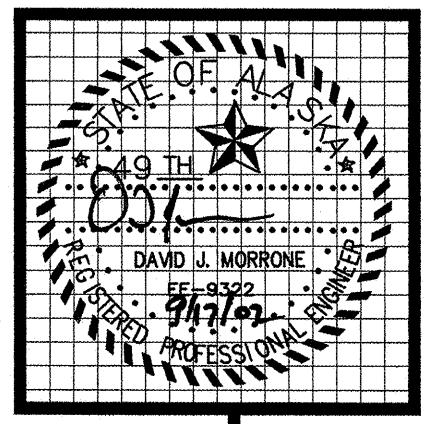
Sjoquist Architects, Inc.
 2001 University Ave SE #200
 Minneapolis, Minnesota 55414
 http://www.sjoquist.com
 612.379.9233 Fax: 612.379.9233

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

| | |
|------------|---|
| drawn | SNS |
| checked | |
| date | 7-8-02 |
| revisions | |
| 1 | 8-23-02 |
| 2 | 9-17-02 |
| job no. | 20152 |
| dwg. title | ELECTRICAL THIRD FLOOR POWER PLAN |
| sheet no. | E13 |

Plot Time: 15:03:17
 Plot Date: 09/17/02
 DWG Name: S:\A\G\001DC000\ELECT\C001_E13.dwg - Layout1

100% SUBMITTAL



MBA Consulting Engineers, Inc.
 3812 Spenard Road, Suite 200 • Anchorage, AK 99517
 (907) 274-2622 • FAX (907) 274-0914
 Email: mbaconsulting@alaska.com

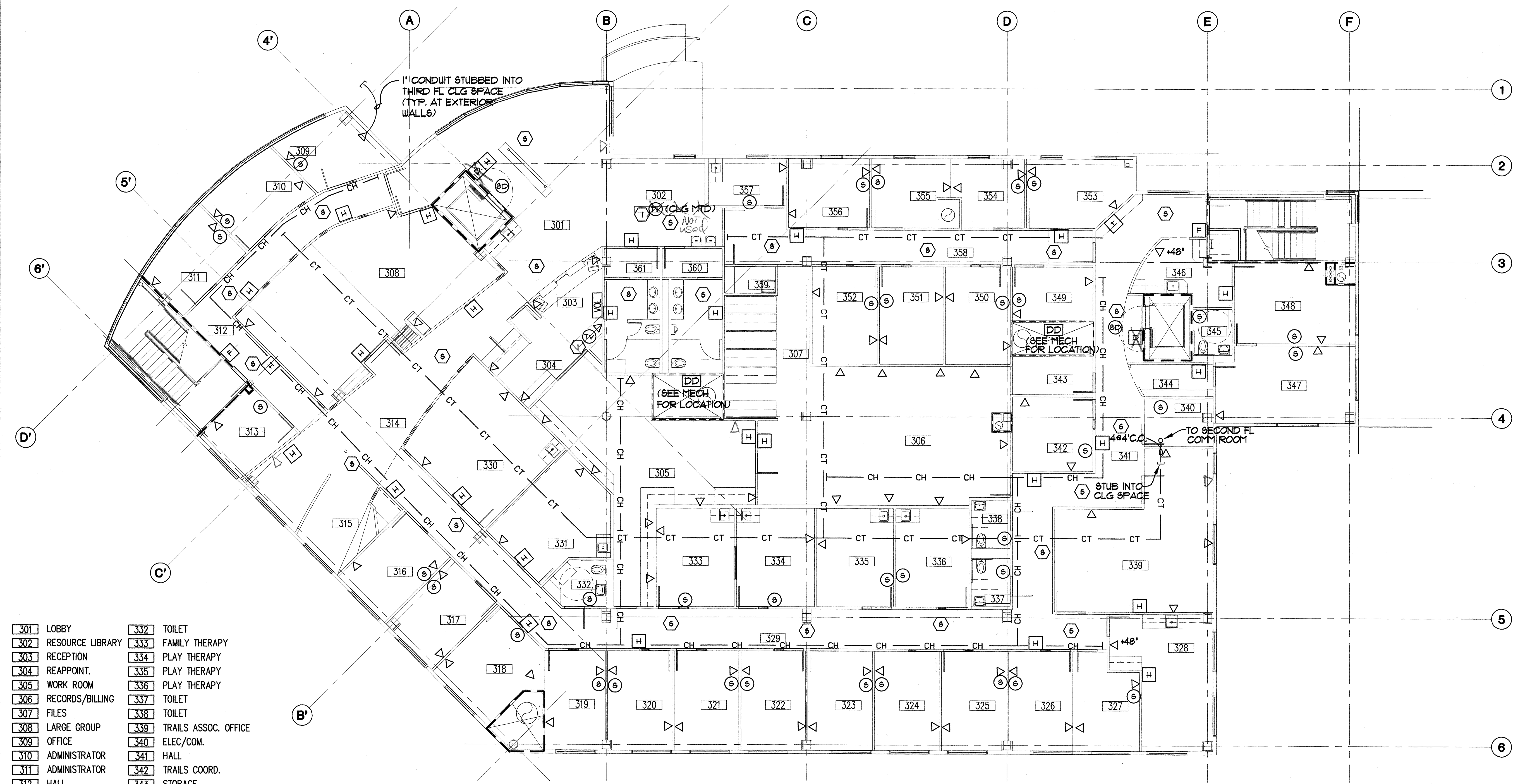
kumin associates, inc.
 architects • planners • interior designers
 808 E street, suite 200 • anchorage, alaska 99501 • (907) 772-8833

Sjoquist Architects, Inc.
 2001 University Ave. SE #200
 Minneapolis, Minnesota 55414
 612.379.9233 Fax: 612.379.9263
<http://www.sjoquist.com>

SOUTHCENTRAL FOUNDATION
 NEW CLINIC FOR
 DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
 TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

drawn SNS
 checked
 date 7-8-02
 revisions
 1 8-25-02
 2 9-17-02
 Job no. 20152
 dwg. title
 ELECTRICAL
 THIRD FLOOR
 SIGNAL PLAN
 sheet no.
E14

100% SUBMITTAL



| | |
|------------------------|--------------------------|
| 301 LOBBY | 332 TOILET |
| 302 RESOURCE LIBRARY | 333 FAMILY THERAPY |
| 303 RECEPTION | 334 PLAY THERAPY |
| 304 REAPPOINT. | 335 PLAY THERAPY |
| 305 WORK ROOM | 336 PLAY THERAPY |
| 306 RECORDS/BILLING | 337 TOILET |
| 307 FILES | 338 TOILET |
| 308 LARGE GROUP OFFICE | 339 TRAILS ASSOC. OFFICE |
| 309 OFFICE | 340 ELEC./COM. |
| 310 ADMINISTRATOR | 341 HALL |
| 311 ADMINISTRATOR | 342 TRAILS COORD. |
| 312 HALL | 343 STORAGE |
| 313 OFFICE | 344 TRAILS HALL |
| 314 WAITING/HALL | 345 TOILET |
| 315 PLAY AREA | 346 TRAILS COM |
| 316 INTAKE | 347 TRAILS GROUP |
| 317 ELIGIBILITY | 348 TRAILS GROUP |
| 318 OFFICE | 349 TESTING |
| 319 OFFICE | 350 OFFICE |
| 320 OFFICE | 351 OFFICE |
| 321 OFFICE | 352 OFFICE |
| 322 OFFICE | 353 OFFICE |
| 323 OFFICE | 354 OFFICE |
| 324 OFFICE | 355 OFFICE |
| 325 OFFICE | 356 OFFICE |
| 326 OFFICE | 357 MEDICAL |
| 327 OFFICE | 358 HALL |
| 328 STAFF LOUNGE | 359 JAN |
| 329 HALL | 360 MEN |
| 330 GROUP | 361 WOMEN |
| 331 GROUP | |

A THIRD FLOOR SIGNAL PLAN
 E14 SCALE :1/8"=1'-0"

- NOTES**
- 1 PROVIDE RG-6/U COAX CABLE IN 1" CONDUIT BETWEEN TV OUTLETS. PROVIDE EACH OUTLET WITH TYPE G CONNECTOR FACEPLATE.
 - 2 SEE ARCHITECTURAL ELEVATIONS FOR OUTLET LOCATIONS.

Plot time: 10:10:33
 Plot Date: 09/17/02
 DWG Name: SAM::G:\001\0000\ELECT\E14.dwg - Layout1

LIGHTING FIXTURE SCHEDULE

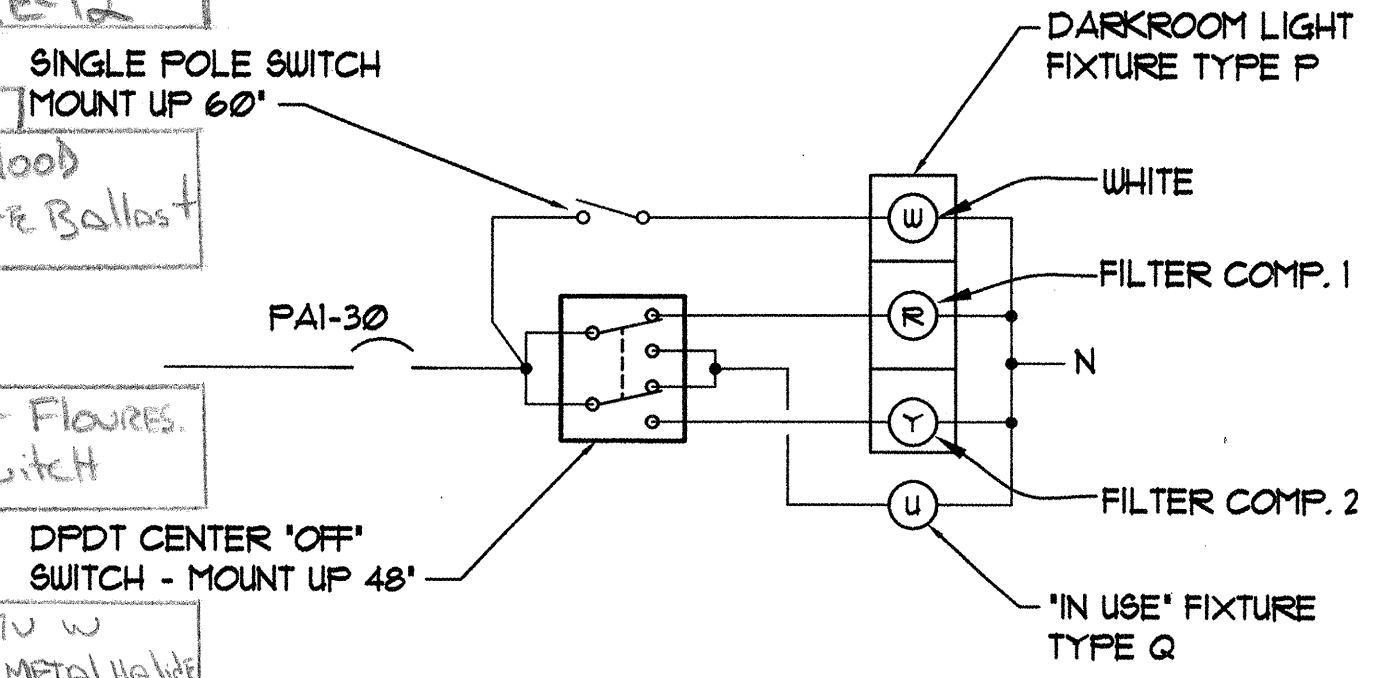
| KEY | LAMP | | MTG. HT. | DESCRIPTION | MANUFACTURERS NO. |
|--------|------|----------------------------|---|---|---|
| | NO. | TYPE | | | |
| A/75 | 2 | F32T8 3500K | SURFACE CEILING | OPEN STRIP FLUORESCENT WITH WIRE GUARD. 277V VOLT BALLAST, ELECTRONIC, <10% THD | LITHONIA *C232 277 GEBIORS WGCUN |
| A-1/75 | 2 | F32T8 3500K | SURFACE CEILING | SAME AS A/75 EXCEPT 120 VOLT BALLST, ELECTRONIC, <10% THD. | LITHONIA C232 120 GEBIORS WGCUN. |
| B/75 | 2 | F32T8 3500K | RECESSED CEILING | 2'x4' TROFFER, PATTERN 12 1/8" THICK ACRYLIC DIFFUSER, GRID MOUNT. ELECTRONIC 277V <10% THD BALLAST. BODINE B50 EMERGENCY BALLASTS WHERE SHADED. | LITHONIA *28PGB 232 A12 125 277 GEBIORS |
| B-1/75 | 2 | F32T8 3500K | RECESSED CEILING | 2'x4' TROFFER, PATTERN 12 1/8" THICK ACRYLIC DIFFUSER, FLANGE-MOUNTED. ELECTRONIC 277V <10% THD BALLAST. BODINE B50 EMERGENCY BALLASTS WHERE SHADED. | LITHONIA *28PFB 232 A12 125 277 GEBIORS |
| B-2/75 | 2 | F32T8 3500K | RECESSED CEILING | TO MATCH FIXTURE TYPE B/75 EXCEPT AIR RETURN/HEAT REMOVAL | LITHONIA *28PGD 232 A12125 277 GEBIORS |
| C/200 | 1 | 175W M-H PULSE START | SURFACE CEILING | PARKING GARAGE LUMINAIRE, SYMMETRICAL DISTRIBUTION, DOWNLIGHT FOCUSED, QUARTZ RESTRIKE, CIAA PULSE START BALLAST, MULTITAP. COLOR AS DIRECTED BY ARCHITECT. | LITHONIA *PGR 175M TB DN QRS 6CUA |
| D/30 | 1 | 10W M-H MED BASE | SURFACE SOFFIT | 14" DIA x 6.1" DEEP ROUND SURFACE ROUGH SERVICE FIXTURE. TRANSLUCENT WHITE INJECTION MOLDED UV-STABILIZED POLYCARBONATE, 1/8" THICK LENS. BLACK FINISHED. | LITHONIA *VGRIC 10M 277 DBLB |
| F/30 | 1 | 10W MH | WALL MT ABOVE EXTERIOR DOOR | CUTOFF WALL-PAK, POLYCARBONATE REFRACTOR 277 VOLT HPF BALLAST. | LITHONIA *TWAC 10M 277 |
| G/75 | 2 | F32T8 3500K | WALL 48"-0" AT BENT 1ST 2ST 3RD FLOORS 16"-0" AT INTER MEDIATE LANDINGS | WALL BRACKET UP AND DOWN LIGHT, #2 1/8" THICK LENSED UP AND DOWN, 277VOLT WHITE FINISH. BODINE B50 EMERGENCY BALLASTS WHERE SHADED. | LITHONIA * W232A12U 277UW |
| H/75 | 2 | F32T8 3500K | PENDANT STRUT BELOW STRUCT + PIPING | WRAPAROUND LENSED FLUORESCENT, ELECTRONIC 277V <10% THD BALLAST. BODINE B50 EMERGENCY BALLASTS WHERE SHADED. | LITHONIA * C8232-277 GEBIORS |
| J/110 | 3 | F32T8 3500K | RECESSED CEILING | 2'x4' TROFFER, PATTERN 12 1/8" THICK ACRYLIC DIFFUSER, GRID MOUNT. ELECTRONIC 277V-VOLT <10% THD BALLAST. BODINE B50 EMERGENCY BALLAST WHERE SHADED. AIR HANDLING/HEAT REMOVAL | LITHONIA *28PGD 332 A12125 277 GEBIORS |
| K/30 | 2 | CF40TT | RECESSED CEILING | 2'x2' TROFFER, PATTERN 12 1/8" THICK ACRYLIC DIFFUSER, GRID MOUNT. ELECTRONIC 277V-VOLT <10% THD BALLAST. BODINE B34C EMERGENCY BALLAST WHERE SHADED. AIR HANDLING/HEAT REMOVAL | LITHONIA * 28PGD 2 CF40 A12125 277 GEBIORS |
| K-1/30 | 2 | CF40TT | RECESSED CEILING | TO MATCH TYPE K/30 EXCEPT NO AIR HANDLING | LITHONIA * 28PGB 2 CF40 A12125 277 GEBIORS |
| L/30 | 2 | CF40TT | RECESSED CEILING | 2'x2' TROFFER, INDIRECT LIGHTING, PERFORATED SHIELD, CURVED ALUMINUM REFLECTOR, 277V-VOLT ELECTRONIC BALLAST. BODINE B34C EMERGENCY BALLAST WHERE SHADED. | ALERA * LUM22-24OTT G-MPO-EBTT-277V |
| M/30 | 4 | F32T8 3500K | RECESSED CEILING | 2'x4' TROFFER, PATTERN 12 1/8" THICK ACRYLIC DIFFUSER, GRID MOUNT. ELECTRONIC 277V<10% THD BALLAST. BODINE B50 EMERGENCY BALLAST WHERE SHADED. AIR RETURN/HEAT REMOVAL. | LITHONIA *28PGD 432 A12125 277 GEBIORS |
| M-1/30 | 4 | F32T8 3500K | RECESSED CEILING | SAME AS M/30 EXCEPT STATIC FIXTURE | LITHONIA *28PGB 432 A12125 277 GEBIORS |
| N/60 | 1 | 42TRT | RECESSED SOFFIT | 6" APERTURE DOWNLIGHT, CLEAR TRIM, SEMI- DIFFUSE LOW IRIDESCENT REFLECTOR FINISH, 277 VOLT BALLAST. | LITHONIA *ARW 1 42TRT 6ARLD 277 |
| P | 1 | 200W A21 15W A15 | RECESSED CEILING | FLANGE MOUNTED DARKROOM SAFELIGHT, 3- COMPARTMENT. PROVIDE ONE EXTRA FILTER OF EACH TYPE. FILTERS SHALL BE 2 AND GBX-2. | MORLITE F-548-3DR-2-GBX-2 |
| Q | 1 | FLT | RECESSED WALL 5' | SINGLE LINE MESSAGE LIGHT TO READ 'IN USE'. | MORLITE R-225-1FLT- IN USE-120 |
| R/70 | 2 | CFQ26 | PENDANT 3' BELOW CEILING | ARCHITECTURALLY STYLED RECTANGULAR PENDANT. FINISH TO BE SELECTED BY ARCHITECT. | VISA *CF3106 2QF26 277 |
| S/40 | 1 | F32T8 | UNDER CASEWORK AS SHOWN BY ARCH | UNDERCABINET FIXTURE, SOLID FRONT, SHATTER- RESISTANT DIFFUSER, 1 5/8" DEPTH | LITHONIA *N26 32 277 |
| T | 2 | 6W HALOGEN | WALL MT ABOVE DOOR HEIGHT | LED EXIT SIGN, ARROWS AS SHOWN ON PLANS. NI-CAD BATTERY BACKUP. 120/277 VOLT, RED LETTERS, BLACK HOUSING. | LITHONIA * LESXR 120/277 ELN |
| T/30 | 2 | 6W HALOGEN | WALL MT ABOVE DOOR HEIGHT | TWO-HEADED BATTERY POWERED EMERGENCY LIGHT, 120/277V INPUT. | LITHONIA * ELM 2 H |
| T/30 | 1 | 10W PAR30 M-H | AS SHOWN ON ARCH. | CYLINDRICAL ADJUSTABLE ACCENT LIGHT. MOUNT AS SHOWN ON ARCHITECTURAL. FIELD AIM AT NIGHT TO SATISFACTION OF OWNER. | B-K *SE-63-XXX-10- RM10 |
| U/30 | 1 | CFQ26 | UP 6' ABOVE PIT FLOOR | WALL-MOUNT JAM-JAR TYPE. UL LISTED FOR WET LOCATIONS. | GUBBELL *NRG-128-4W |
| V/40 | 1 | F32T8 | AS SHOWN BY ARCH. | OPEN STRIP FLUORESCENT IN ARCHITECTURAL COVE. | LITHONIA *S132 277 GEBIORS |

(N-1/60)-120VOLT LUTRON HI-
Lume Dimming Ballast
RECESS REF. SKE-12

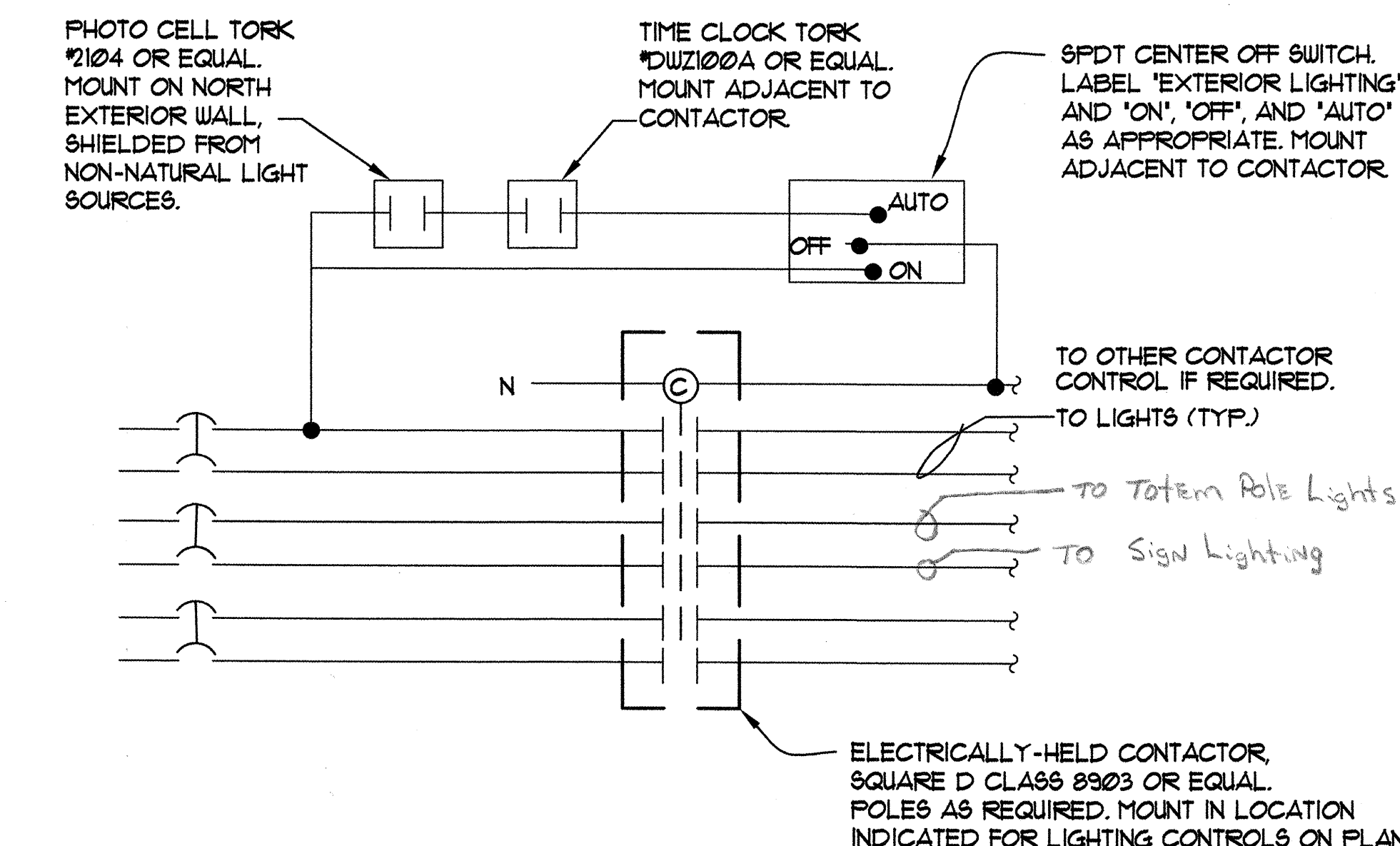
B-K lighting
EX(2) (50W) WHITE Flood
120V w 12V Remote Ballast
Sign Lights

(UC) REF SKE-12
4'x2' UNDERCABINET FLOORS.
120V plug in with switch

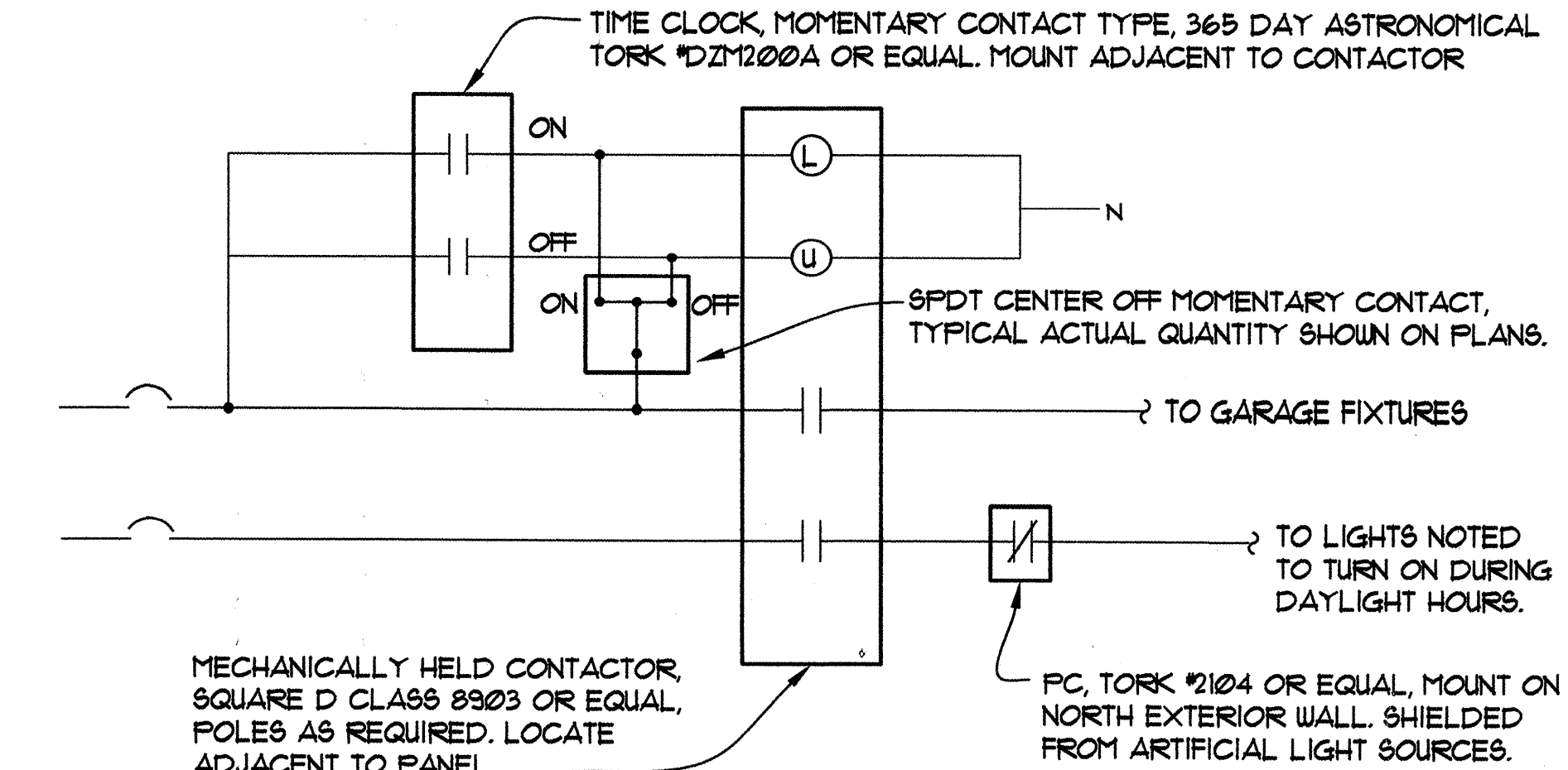
TOTEM Lights
CAPELLA-50/SWIVE/377V w
Remote Ballast/150 w METAL HALL



1 DARKROOM LIGHTING CONTROL DIAGRAM
SCALE = NONE



2 EXTERIOR LIGHTING CONTROL DIAGRAM
SCALE = NONE



3 GARAGE LIGHTING CONTROL DIAGRAM
SCALE = NONE



MBA Consulting Engineers, Inc.
3812 Spenard Road, Suite 200 • Anchorage, AK 99517
(907) 274-2622 • FAX (907) 274-0914
Email: mbaconsulting@alaska.com

kumin associates, inc.
architects • planners • interior designers

908 E street, suite 200 • anchorage, alaska 99501 • (907) 272-8883

Sjoquist Architects, Inc.
2001 University Ave SE #200
Minneapolis, Minnesota 55414
612.379.9233 Fax 612.379.9263
http://www.sjoquist.com

SOUTHCENTRAL FOUNDATION
NEW CLINIC FOR
DENTAL, OPTOMETRY and BEHAVIORAL HEALTH
TUDOR RD. and TUDOR CENTER DRIVE, ANCHORAGE, ALASKA

drawn SWS
checked REA/MUL
date 8-23-02
revisions
9-17-02

job no. 20152
dwg. title
ELECTRICAL
DETAILS

100% SUBMITTAL

sheet no.
E16

Plot Name: 09/17/02
Dwg Name: S:\c:\001\DC00\ELECT\001_E16.dwg - Layout1

PANEL: B

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like ELEVATOR PIT-LIGHT & REC., GENERATOR-BATTER CHGR, REC-EXTERIOR LIGHT POLES, etc.

PANEL: LL2

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like STRS/CORR/ELEC, 3RD FLR STRS/CORR/ELEC, REC-4, EF-5, EF-7, etc.

PANEL: MSB

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like PANEL SS-VIA ATS, XFMR TPA2 (PANEL PA2), ROOF TOP UNIT 1, etc.

PANEL: C

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like REC-BSMT COMM ROOM, COMPUTERS/COMM/DATA EQUIP'T, UPS SYSTEM BASEMENT, etc.

PANEL: M

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like EF2 1/3 HP-ON ROOF, REC'S - BOILER ROOM, EF-8 1/2 HP-BSMT ELEC RM, etc.

PANEL: PA1

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like RECEPT-CONF 133, 142, RECEPT-STERILE 173, RECEPT-LOUNGE 178, etc.

PANEL: LL1

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

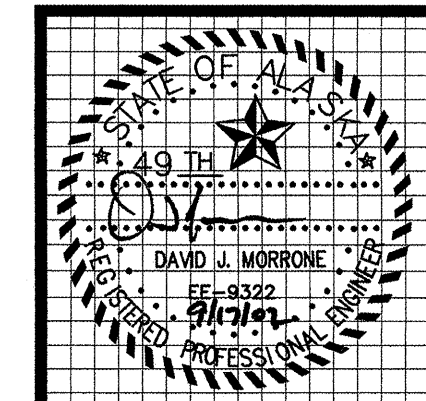
Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like POLE-MTD PARKING LOT LTS, BLDG-MTD EXTERIOR LIGHTS, BSMT LIGHTS, etc.

PANEL: MM

PROJECT: SCF DOBH

LUGS CB SURF FLSH THRUFEED LGS SHNT TRP SBFD LGS SUBFEED BKR ISO GRND BAR SOLID NEUTRAL

Table with columns: CIRCUIT DESCRIPTION, KVA, AMP, CKT, AMP, KVA, CIRCUIT DESCRIPTION. Includes items like EF-1 1HP-ON ROOF, PMP-5 3/4HP, EF-3 5HP-ON ROOF, PMP-5A 3/4HP, etc.



MBA Consulting Engineers, Inc. 3812 Spenard Road, Suite 200 - Anchorage, AK 99517 (907) 274-2622 - FAX (907) 274-0914 Email: mbaconsulting@alaska.com

kumin associates, inc. architects • planners • interior designers 808 E sheet, suite 200 - anchorage, alaska 99501 (907) 272-8888

Sjoquist Architects, Inc. 2001 University Ave SE #200 Minneapolis, Minnesota 55414 612.379.9233 Fax 612.379.9263

SOUTHCENTRAL FOUNDATION NEW CLINIC FOR DENTAL, OPTOMETRY and BEHAVIORAL HEALTH TUDOR RD. and TUDOR CENTER DRIVE - ANCHORAGE, ALASKA

Table with columns: drawn, checked, date, revisions, job no., dwg. title, sheet no. Includes revision history and drawing title 'ELECTRICAL PANEL SCHEDULES'.

100% SUBMITTAL

E17

Plot Date: 09/17/02 Plot Time: 10:21:12 DWG Name: SAM:G:\C001DC00\ELECT\C001_E17.dwg - Layout1