### MEZZANINE ADDITION

TO THE

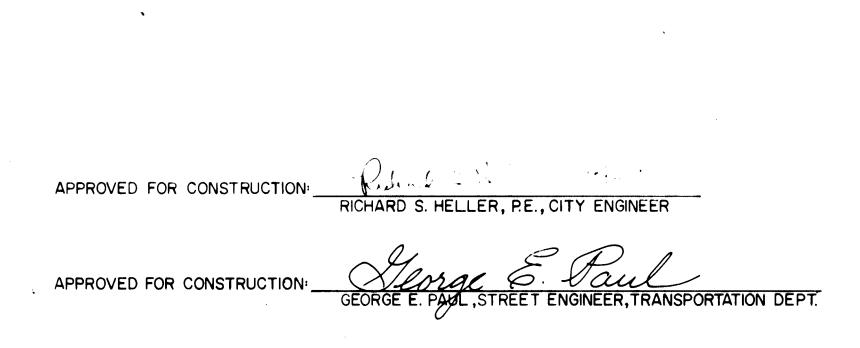
# STREET SWEEPER MAINTENANCE BUILDING SATELLITE #2

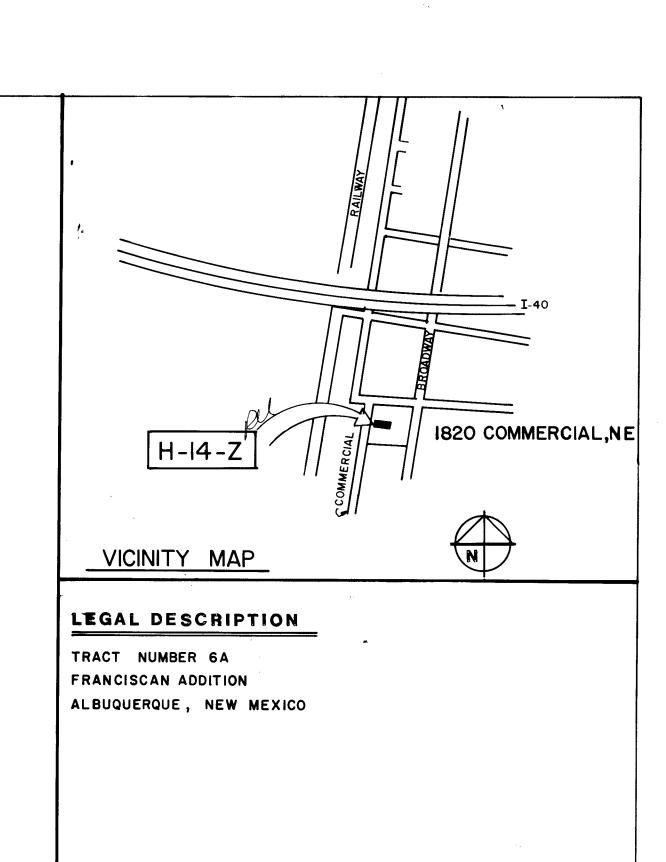
for the

TRANSPORTATION DEPARTMENT
STREET DIVISION
CITY of ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

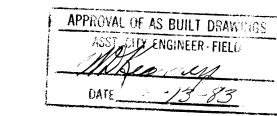
DRAWING INDI	EX:
SHEET #	TITLE
<b>E</b>	SITE PLAN AND DESIGN DATA
<b>A</b> 2	FOUNDATION PLAN AND DETAILS; GENERAL STRUCTURAL NOTES
<b>A</b> 3	REMOVAL PLAN; NEW FLOOR AND MEZZANINE PLAN; SCHEDULES AND DETAILS
A3 C.	BUILDING AND STAIR ELEVATIONS AND DETAILS
<b>A</b> 5	SECTIONS AND DETAILS
№6	ELECTRICAL PLANS
<b>₽</b> 27	ELECTRICAL NOTES AND DETAILS
<b>M</b> 8	MECHANICAL PLANS
<b>№</b> 29	MECHANICAL NOTES AND DETAILS





GENERAL NOTES

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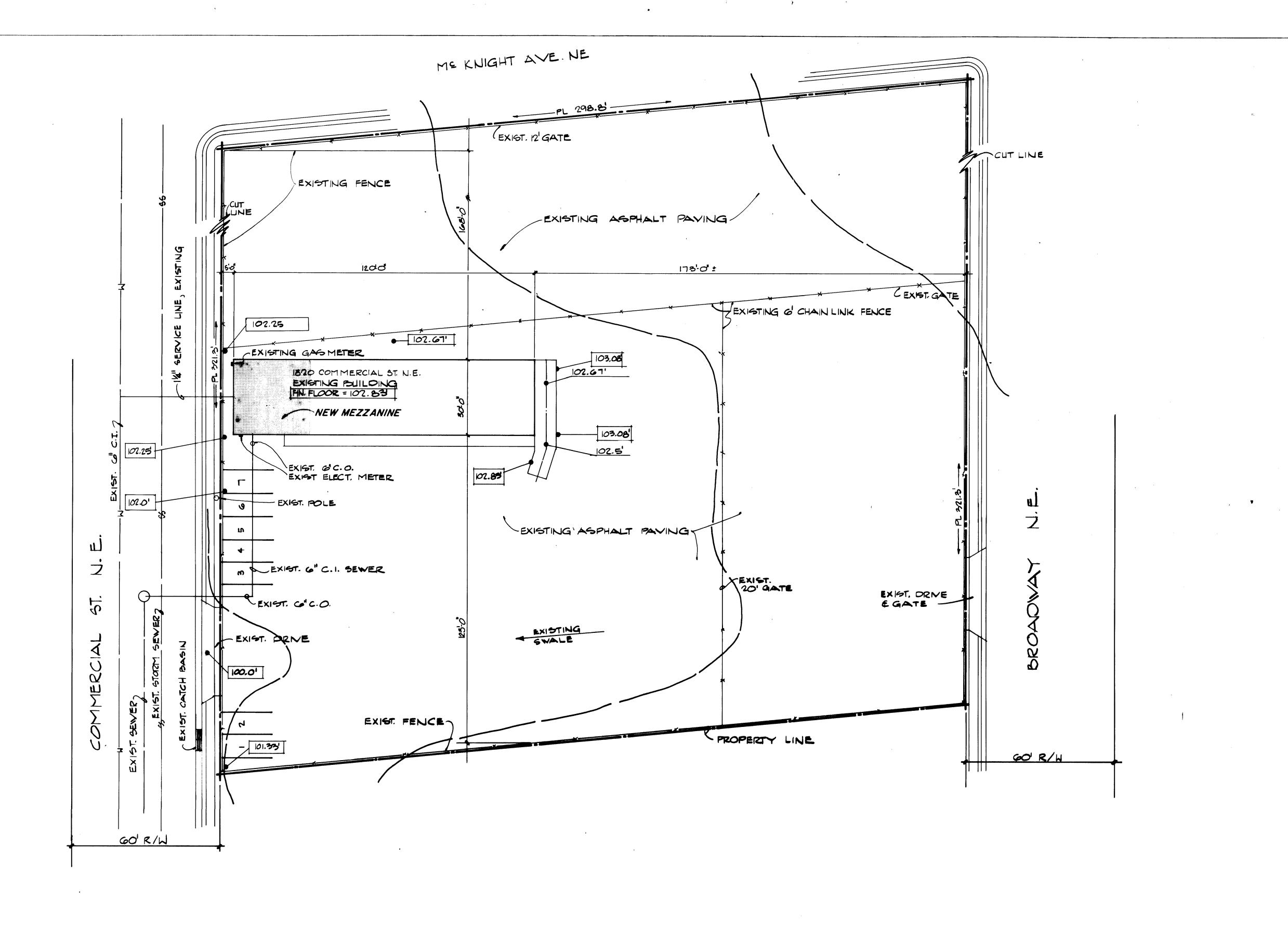
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PROJECT NO. 1563

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CONSTRUCTION



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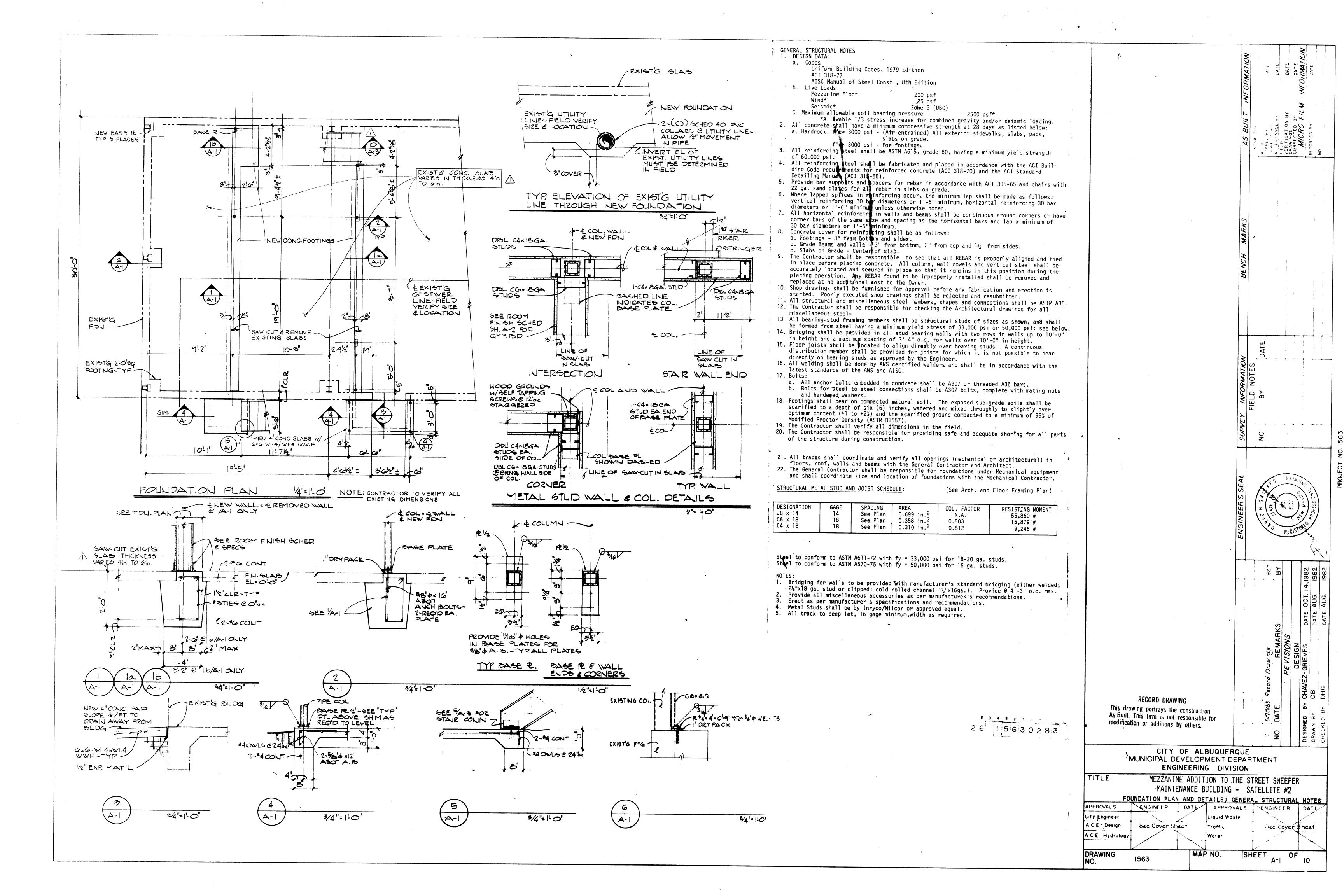
SITE AND DRAINAGE PLAN

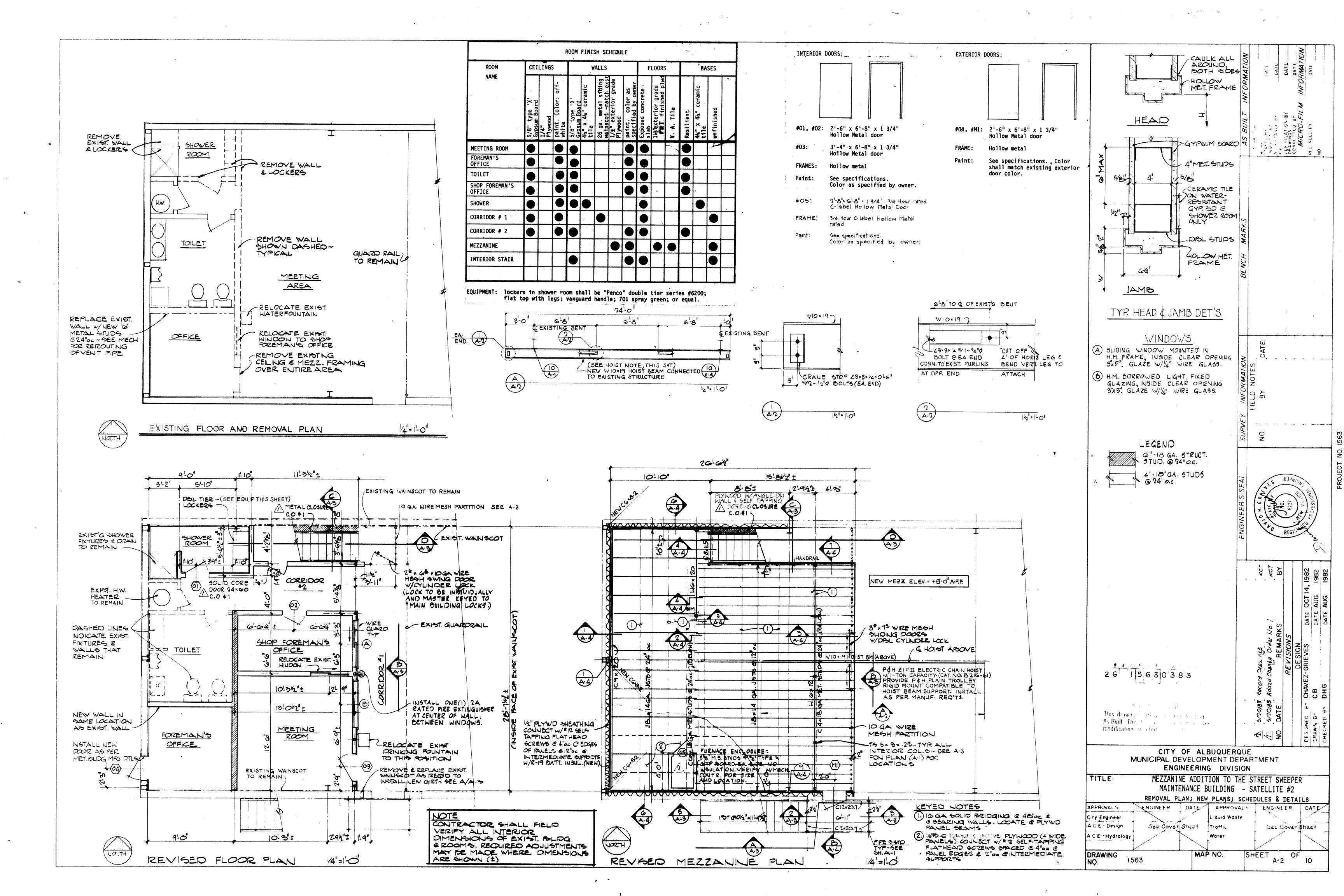
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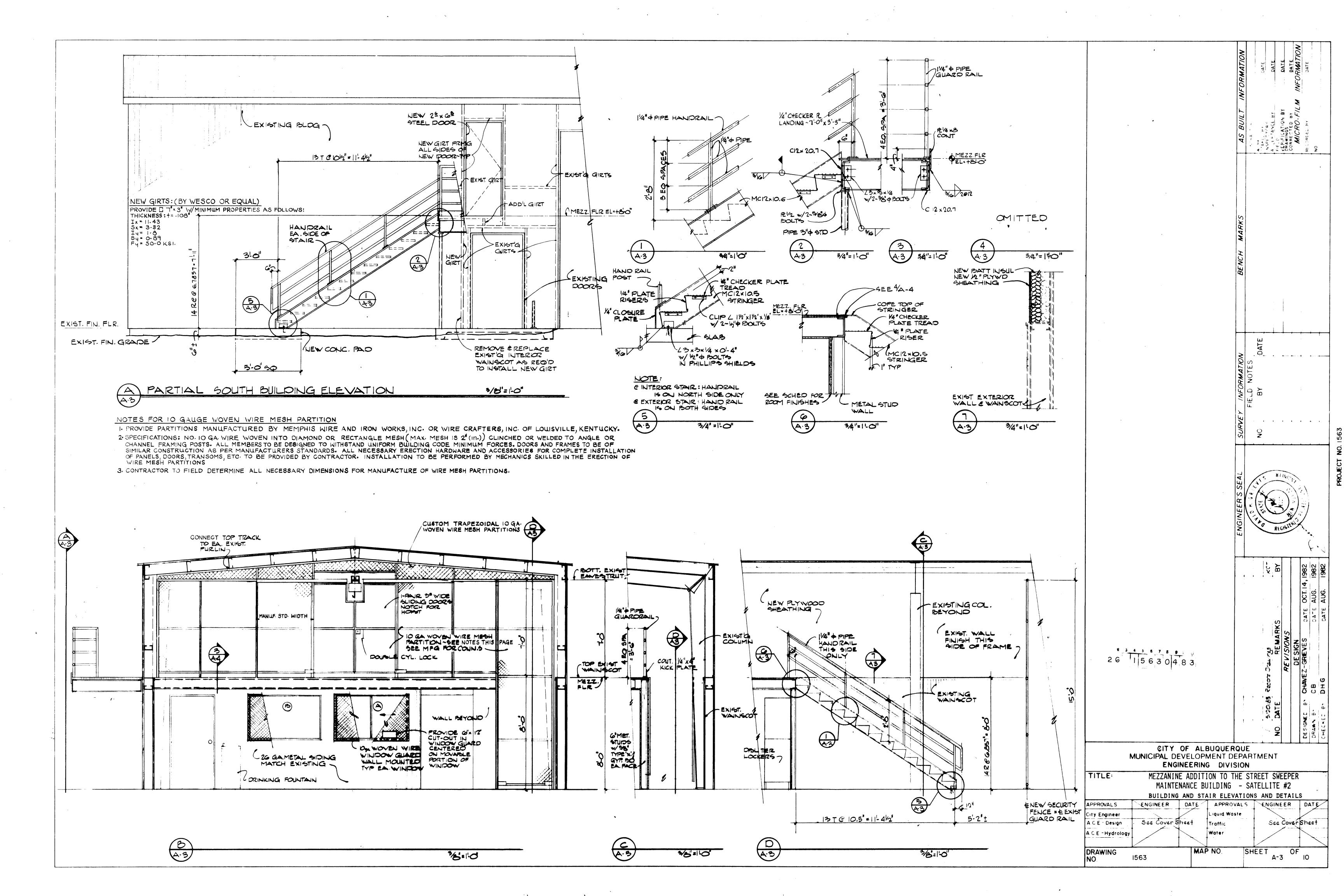
NO CHANGES OR ADDITIONS ARE BEING MADE TO THE SITE OR DRAINAGE FOR THIS BUILDING

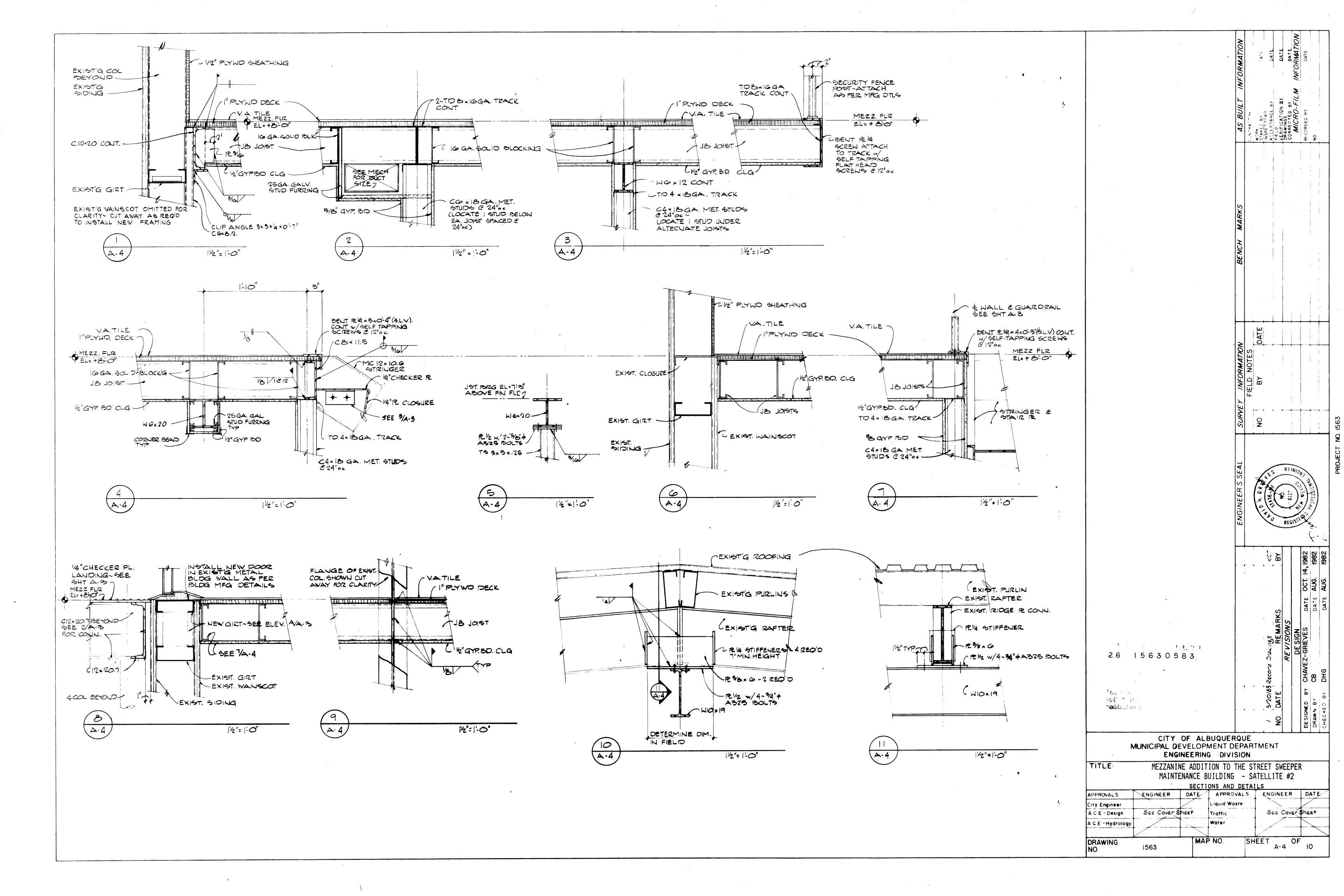
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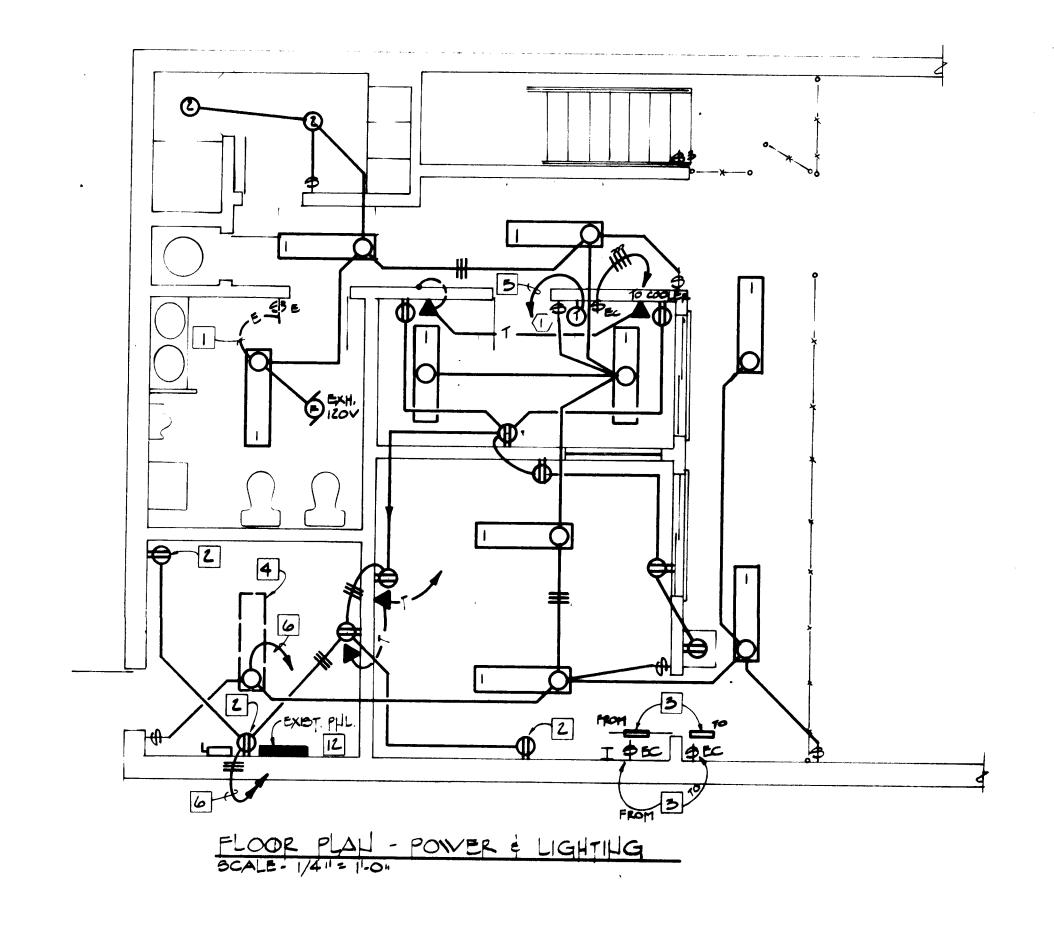
SITE DATA











KEYED NOTES

1 EXISTING SWITCH AND CONDUCTORS UP TO NEW LIGHTING FIXTURE. MAKE CONNECTIONS AS RQD.

2 SURFACE MOUNT OUTLET ON EXISTING WALL.

3 RELOCATE EXISTING COMPONENTS INDICATED TO NEW LOCATION SHOWN (INTRUSION ALARM AND EVAP. COOLER SW.)

4 EXISTING LIGHTING FIXT. TO REMAIN. PROVIDE SWITCHING AND CIRCUITRY AS INDICATED.

5 EXTEND 1/2" C. WITH CONTROLS CONDUCTORS AS RQD. TO

6 EXTEND TO EXISTING PANEL - CONNECT TO "SPARE" 20A-1P BREAKER.

30A-3P NEMA 1 FUSIBLE DISCONNECT. LOCATE AS RQD. FUSE TO SUIT MOTOR. MAKE CONNECTIONS AS RQD.

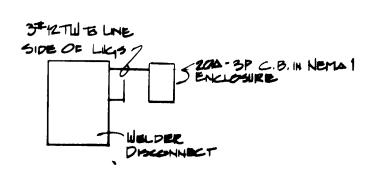
8 MIDWEST #P220SF FUSIBLE EVAP. COOLER SWITCH. FUSE

9 CONNECT TO ADJACENT EXTERIOR LIGHTING FIXTURE.

10 EXISTING FIXTURES TO REMAIN.

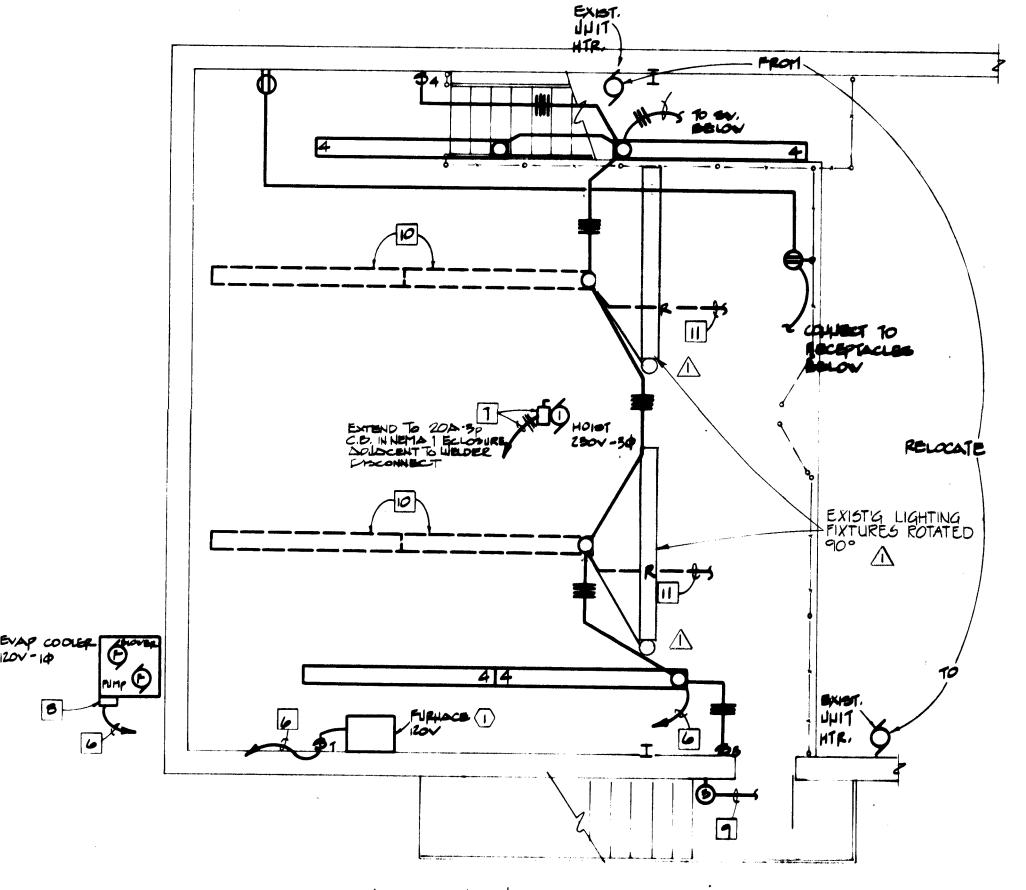
DISCONNECT EXISTING FIXTURES FROM PRESENT CIRCUIT.
RE-CIRCUIT AS INDICATED.

PROVIDE 6 20A-1P BREAKERS AT EXISTING SPACES FOR CONNECTION OF NEW CIRCUITS. NEW BREAKERS SHALL BE COMPATIBLE WITH EXISTING PANEL.



### HOIST CONNECTION SCHEMATIC

	FIXTURE SCHEDULE		
DESCRIPTION	LAMPS	MOUNTING	REMARKS
LITHONIA #WA-240A	2-F40/LW/RS/SS	SURFACE	ADVANCE MARK III
PRESCOLITE #9427	1-20W/FC6T9	SURFACE	
HUBBELL #NRG-121-HP	1-50W/HPS	"SURFACE UP 6'0" ABOVE LANDING	
LITHONIA #DD-296A	2-F96T12/CW	OURPAGE	



ELECTRICAL SYSTEM SYMBOLS

FLUORESCENT FIXTURE AND OUTLET. NUMBER REFERS TO FIXTURE SCHEDULE.

LIGHTING FIXTURE, CEILING OUTLET. NUMBER REFERS TO FIXTURE SCHEDULE.

LIGHTING FIXTURE, WALL OUTLET. NUMBER REFERS TO FIXTURE SCHEDULE. UP AS SCHEDULED UNLESS OTHERWISE NOTED ON THE DRAWINGS.

DUPLEX RECEPTACLE, NEMA 5-15R, 15 AMP/125 VOLT. UP 8" UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SINGLE POLE TOGGLE SWITCH. UP 48" TO BOTTOM.

THREE WAY TOGGLE SWITCH. UP 48" TO BOTTOM.

FOUR WAY TOGGLE SWITCH. UP 48" TO BOTTOM.

MANUAL MOTOR SWITCH WITH PILOT LIGHT. SIZE O.Ls TO PROTECT MOTOR. UP 48" TO

BOTTOM OR AS NOTED ON THE DRAWINGS. SAFETY SWITCH.

ELECTRICAL PANELBOARD. REFER TO PANEL SCHEDULES FOR DESCRIPTION.

ELECTRIC MOTOR OUTLET. NUMBER INDICATES HORSEPOWER.

TELEPHONE OUTLET. UP 8" TO BOTTOM.

WIRING RUN CONCEALED IN CONDUIT. HASH MARKS INDICATE 1 NEUTRAL, 20 CONDUCTORS, 'ARROWS AND SUBSCRIPT INDICATED HOME RUN TO PANEL "A" CIRCUITS NO. 1 & 3.

Φe

TELEPHONE CONDUIT RUN CONCEALED. 3/4" MINIMUM.

TELEPHONE CONDUIT HOMERUN RUN CONCEALED TO TELEPHONE TERM BD. 1" CONDUIT MINIMUM.

E EXISTING WIRING TO REMAIN. EXISTING SWITCH TO REMAIN.

THERMOSTAT BY MECHANICAL. UP 5'0" TO BOTTOM.

MECHANICAL EQUIPMENT SYMBOL. REFER TO MECH. EQUIP. SCHEDULES ON MECHANICAL SHEETS IN THE DRAWINGS.

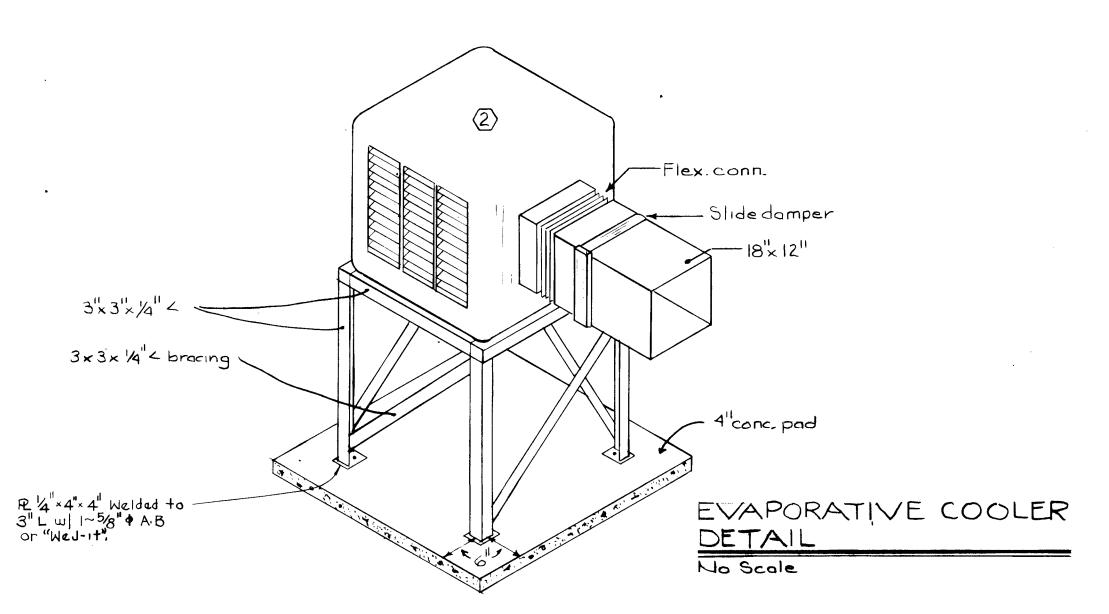
26 15630683 Will be a CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION TITLE MEZZANINE ADDITION TO THE STREET SWEEPER MAINTENANCE BUILDING - SATTELITE # 2 Jue Cover Sheet E-I

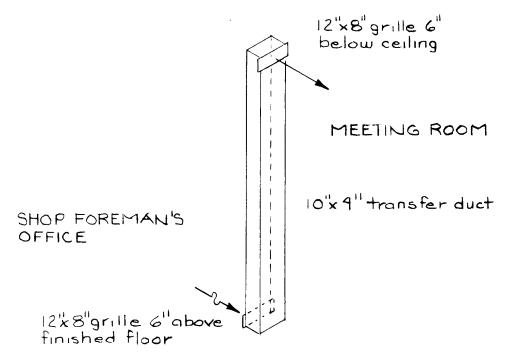
### DIVISION 16 - ELECTRICAL SCOPE: The work covered by this section of the specifications consists 11.1 Conduit Systems: shall be installed in accordance with the applicable and receptacle outlet boxes, except where otherwise specified or in furnishing all labor, equipment, supplies, and materials, including ELECTRICAL POWER EQUIPMENT: provisions of the NEC. Rigid "PVC" coated conduit shall be installed required, shall be steel 2 inches deep. lamps, and in performing all operations, including cutting, channeling, for all underground feeders and all feeder conduits installed below and chasing, necessary for the installation of a complete system for the floor slabs. Feeder conduits installed above grade shall be Control Equipment: Boxes shall be fitted with appropriate plaster covers, where necessary, power and lighting and other systems as indicated, electric service electrical metallic tubing or intermediate grade zinc coated rigid to set flush with the finish surface. Cast alloy boxes of a type to connections and electrical equipment, in strict accordance with this 23.1.1 The Electrical Contractor shall furnish and install all motor starter suit the device to be installed shall be used in damp locations. section of the specifications and the applicable drawings, and subject and electrical control equipment, except items specifically noted In masonry walls and partitions, convenience outlets and telephone to the terms and conditions of the contract. on the drawings to be furnished by the Contractor supplying the 11.1.1 Branch circuit conduits installed below floor slab shall be "PVC" outlets shall be installed so that the bottom of the outlet is on equipment, but will be mounted and connected as required by the Schedule 40 plastic conduit and shall be electrical metallic conduit APPLICABLE SPECIFICATIONS AND STANDARDS: The following specifications the horizontal mortar joint closest to the dimension shown on the Electrical Contractor. All starters furnished shall be of the same above floor slab. drawings or specified. No sectional type boxes will be allowed. and standards shall form a part of these specifications. Dimensions indicated are to be bottom of box (to the <u>center</u> of clocks Conduit unions shall be used in place of running threads. Rigid and speakers). Outlet and junction boxes shall be sized according Electrical Administrative Board of New Mexico: 23.1.2 The Contractor supplying equipment shall furnish and install all conduits entering a box without hubs shall have a locknut and bushing to code to provide proper wiring space for all conductors. Boxes New Mexico Electrical Code other controls required by his specific equipment and shall be on the inside of the box. shall be minimum 4" trade size. responsible for any changes from the electrical drawings occasioned National Board of Fire Underwriters: by his specific equipment. Insulating bushings shall be installed on all conduits containing On walls where block or tile is the finished surface, square extension National Electrical Code (Current Edition). No. 4 conductors or larger. rings shall be used for all wall outlets. 23.2 Control Wiring: Underwriters' Laboratories, Inc. (Standards). Electrical metallic tubing connectors shall have insulated throats. Pull boxes shall be constructed of code-gage galvanized sheet metal, EMT couplings and connectors shall be compression type. The use of 23.2.1 The Electrical Contractor shall furnish and install all wiringof not less than the minimum size recommended by the National Electrical GENERAL CONDITIONS: The electrical division of the work is a part indicated on the electrical drawings. Where indicated, wiring shall indenter type or set screw type fittings will not be allowed. Code. Boxes shall be furnished with screw-fastened covers. of the general conditions, which precede the main body of architectural terminate in the equipment supplied by others. specifications and shall govern all materials and labor to be furnished 11.5 Flexible metallic conduit shall be used for connection of all motors, BRANCH CIRCUITS: Branch-circuit conductors shall not be smaller than 23.2.2 The Contractor furnishing equipment shall furnish all other wiring under this section of the specifications and all procedures. resilient-mounted equipment, and recessed fixtures. Flex connections No. 12 AWG, except that conductors for branch circuits whose length required by this specific equipment and shall be responsible for to motors and resilient-mounted equipment shall not exceed 18 inches, from panel to center of load exceeds 100 feet shall not be smaller DRAWINGS: The specifications are accompanied by floor plans of the any cost of changes in the indicated wiring caused by his equipment. and shall not exceed 6 feet for recessed fixtures. All connections than No. 10 AWG. Conductors for control circuits may be No. 14 AWG. building showing the location of all outlets and the details of the to exterior equipment shall be made with waterproof flexible conduit. Conductors shall be continuous from outlet to outlet, and no splices 23.2.3 All control wiring shall be tagged in each box and at each termination. proposed electrical installation. The drawings and these specifications shall be made except within outlet or junction boxes. Junction boxes are complimentary, each to the other and what is called for by one The controls shown on the drawings are for the convenience of the Conduits and tubing shall be concealed in walls, ceilings, or under may be utilized where required. Wire connectors of insulating material shall be as binding as if called for by both. The Electrical Contractor contractor and may not be complete in details for the equipment floor constructions except as specifically indicated on the drawings or solderless pressure connectors properly taped, shall be utilized shall, upon completion of the electrical installation, provide the purchased for installation. The Electrical Contractor shall coordinate Conduit shall be "trenched in" below concrete slabs on grade. Conduit for all splices in wiring where possible. Soldered joints insulated Architect a set of electrical prints on which he shall have marked all with the other Contractors to insure that all components of control and tubing shall be kept at least 6 inches from parallel runs of flues, with tape shall be kept to a minimum. Vinyl plastic tape shall be changes in the electrical work from that as originally shown. In case work (are included and fully understood. steam pipes, or hot water pipes. Exposed runs of conduit or tubing of conflict in the drawings and the specifications, the one requiring used where required. shall have supports spaced not more than 8 feet apart and shall be the larger capacity or better quality shall govern. All equipment 23.2.4 All control wiring shall be installed in strict accordance with this installed with runs parallel or perpendicular to walls, structural PANELBOARDS Panelboards shall be dead-front safety type. Voltage requiring the electrical power, specified under this or other sections and other paragraphs of the electrical specifications. members, or intersections of vertical planes and ceilings, with of the specifications or drawings shall be connected complete. rating, circuit breakers or fusible switch ratings, short circuit right angle turns consisting of cast-metal fittings or symmetrical and duty ratings shall be as shown by the Panel Schedules on the MOTOR DISCONNECT: Each motor shall be provided with a disconnecting bends. Bends and offsets shall be avoided where possible, but where CODES, PERMITS AND INSFECTIONS: The installation shall comply with drawings. Twin-breaker units are not acceptable. Fusible switch units means even though not indicated on the drawings. A switch with buss necessary shall be made with an approved hickey or conduit-bending all local and state laws applying to electrical installation, and shall be quick make, quick-break, dual horsepower rated, and shall fuse holders and fusetrons (sized according to actual motor rating) machine. Conduit or tubing which has been crushed or deformed in have Type "R" fuse clips. Refer to Panel Schedules for description. with the regulations of the latest issue of the National Electrical shall be provided at each motor (each un-grounded conductor shall be any way shall not be installed. Expansion fittings or other approved Code, where such regulations do not conflict with the laws and local fused). Switches of 30 to 400 ampere capacity shall be of the devices shall be used to provide for expansion and contraction where WIRING DEVICES: ordinances now in affect. These regulations shall be considered as enclosed, quick-make, and quick-break type, horsepower rated. conduit or tubing crosses expansion joints. Wooden plugs inserted minimum requirements. The drawings show the installation as it shall Switches shall disconnect all ungrounded conductors. in masonry or concrete shall not be used as a base to secure conduit <u>Duplex Convenience Receptacles</u> shall be rated 15 amperes, 125 volt, NEMA 5-15R configuration unless otherwise noted on the drawings. be installed with the minimum requirements of the codes above as a supports. Conduit and tubing shall be supported on approved types INSPECTION AND TESTS: Work under this section of the contract shall base, and all cost incident thereto shall be included in the Electrical of galvanized wall brackets, ceiling trapeze, strap hangers, or Contractor's Bid. The Electrical Contractor shall obtain all permits Receptacles shall be grounding type, Slater #885-1V. be subjected to the inspection and approval of the Architect. Upon pipe straps, secured by means of toggle bolts in hollow masonry and licenses required by the local ordinances and shall include the completion of the work, a satisfactory full load test shall be made units, expansion bolts in concrete or brick, machine screws on metal costs of all such permits required for this installation in his bid. Wall Switches shall be spliver contact "AC" quiet type and shall be upon the entire system. This test will be made in the presence of the surfaces, and wood screws on wood construction. Nails shall not be 5 amp, 125 volt, Slater #770WH or approved equal. Upon completion of the work, the Electrical Contractor shall furnish used as the means of fastening boxes and conduits. Conduit and tubing the Architect a certificate of final inspection and approval from shall be installed in such manner as to insure against trouble from A Device Plate shall be provided for each outlet to suit the device the collection of trapped condensation, and runs of conduit shall be the local Electrical Inspection Department GUARANTEE: The Contractor shall guarantee all workmanship. installed. All plates on finished walls shall be Slater "Sta-Kleen" arranged so as to be devoid of traps wherever possible. The Contractor materials and equipment for a period of one year from the date of phenolic; white in color. Screws shall be of metal with countersunk PROGRESS AND GUARANTEE: The Electrical Contractor shall coordinate shall exercise the necessary precautions to prevent the lodgement completion and acceptance. In the event defects appear during heads, with finish to match the finish of the plate. Plates shall the progress of the electrical work with the progress of the work of dirt, plaster, or trash in conduit, tubing, fittings, and boxes this period, the Contractor shall immediately upon receipt of be installed with all four edges in continuous contact with finished of the other trades on the job, and shall complete the electrical during the course of installation. A run of conduit or tubing which notice, make necessary adjustment, repairs and replacements wall surface without the use of mats or similar devices. Plaster installation as soon as the condition of the building will permit. has become clogged shall be entirely freed of these accumulations or without charge. fillings will not be permitted. Plates shall be installed vertically The Electrical Contractor shall leave the entire electrical installashall be replaced. Conduit shall be securely fastened to all sheet and with an alignment tolerance of 1/16". Device plates shall be of tion in proper working order and shall, without additional charge, metal outlet, junction, and pull boxes with galvanized locknuts and the one-piece type, of suitable shape for the devices to be covered. replace any work or material which develops defects, except from bushing, care being observed to see that the full number of threads ordinary wear and tear, within one year from the date of the Owner's project through to permit the bushing to be drawn tight against the LIGHTING FIXTURES: Fixtures shall be as specified on the drawings acceptance of the building. end of the conduit, after which the locknut shall be made up sufficiently or approved equal. All fixtures shall be furnished complete with tight to draw the bushing into firm electrical contact with the box. all fittings, parts and stems as required by the particular CHANGES OR SUBSTITUTIONS: No changes shall be made in the electrical Wiring shall not be installed in telephone conduit except for #9 installations. All fittings, parts and stems shall be of the same work as shown and herein specified; unless such changes are authorized gage galvanized pull wire. manufacturer as the fixtures on which they are used and shall be in writing by the Architect and such authorization shall contain a installed strictly according to the manufacturer's recommendations statement covering the amount of the charges involved in the change. 12. CONDUCTORS: A complete system of conductors shall be installed in END OF SECTION 16 and/or as specifically detailed on the drawings. Any deviations All substitutions shall be requested in letters from the Contractor the raceway systems. Conductors, unless otherwise indicated, shall from these specifications without specific approval from the to the Engineer at least eight (8) days prior to the bid openings be thermoplastic-insulated, type TW. All conductors shall be copper. engineer will be remedied without charge by this Contractor. and shall be considered as authorized only upon written permission from the Engineer. Where materials are proposed to be substituted in 13. ELECTRICAL SERVICE SYSTEM: The primary and secondary lighting and Fluorescent ballasts for 40-watt, 430 m.a., rapid start lamps and slimline 425 m.a. lamps shall be Advance Mark III energy saving lieu of the specific items specified, substitutions shall be equal in power service will be as indicated on the drawings. The Electrical quality, workmanship and design. The burden of proof of equality of Contractor shall furnish and install the service and the service ballasts; all other ballasts shall be super-premium grade, CBM, materials shall be placed upon the Contractor. Samples of all materials equipment as shown on the drawings. The Electrical Contractor shall ETL, Class P with an "A" sound rating, as manufactured by Advance, proposed for substitution shall be submitted to the engineer for furnish and install all enclosed safety switches complete with fuses Universal, G.E., or Jefferson. examination. Substitutions based on catalog data only will not be where shown on the drawings. Items installed outside shall be permitted. Submittals (seven copies) on all material to be used will "raintight". 19.2 Surface mounted fluorescent fixtures shall meet NEMA requirements for be made within thirty (30) days or award of contract. Otherwise, materials not submitted by this time will be specified with no GROUNDING SYSTEM: The conduit systems and neutral conductor of the substitutions allowed regardless of prior approval. wiring system shall be grounded. The ground connection of the Fluorescent Fixtures Lenses shall be 100% virgin acrylic and shall have a minimum thickness of not less than 0.125 (1/8) inch. 19.3 electrical system neutral and conduit system shall be made at the EXAMINATION OF THE SITE: Prior to submitting a bid, the Electrical main service switch. A bare copper ground conductor, sized in Contractor shall visit the site of the job and shall familiarize accordance with the National Electrical Code as indicated on the H.I.D. ballasts shall be high power factor, constant wattage, autohimself with all conditions which may affect the proposed electrical drawings shall be extended in conduit from the main service equipment regulating type, and shall be encapsulated. Ballasts installed Contractor for labor or materials which he has failed to include in to the point of entrance of the water service. Connection to the above ceilings shall have a 55 degree C. minimum ambient rating. his bid. water pipe shall be made by a suitable bi-metallic ground clamp or Ballasts installed inside the building shall have a noise level of lug connection to a plugged tee. Secondary equipment in isolated less than 30 decibels. Ballast shall have an unconditional two-year CUTTING, REPAIRING: The Electrical Contractor shall do all cutting, locations shall be effectively bonded and permanently grounded. The warranty and shall be Sola, Jefferson, General Electric, Westinghouse channeling, patching, etc., incident to the electrical work. He ground shall serve for both the electrical and equipment ground when or approved equal. shall arrange with the General Contractor for all necessary work applicable. openings or chases. LAMPS: Lamps shall be furnished and installed by the Contractor. ELECTRICAL DISTRIBUTION SYSTEM: Outlets shall be installed in the Lamps shall be as manufactured by Westinghouse, G.E., or Sylvania. BASIC MATERIALS AND METHODS: All materials shall be new and shall locations shown on the drawings. The Contractor shall study the Fluorescent tube color shall be cool white or as noted. conform with the standards of Underwriter's Laboratories. Inc., in general building plans in relation to the spaces surrounding each every case where such a standard has been established for the outlet in order that his work may fit other work required by these TELEPHONE EQUIPMENT: Cabinet box shall be constructed with interior particular type of material in question. All work shall present a specifications. When necessary, the Contractor shall relocate dimensions not less than those indicated on the drawings. Each neat appearance when completed and shall be executed in a workmanlike outlets so that, when fixtures or other fittings are installed, they trim shall be fated with hinged door and flush catch. Doors shall manner. In all cases the work shall be done to the satisfaction of will not interfere with other work or equipment. Zinc-coated or provide maximum ize openings to the box interior. Boxes shall be provided with \$8" weather-proof grade plywood back-board having a two-coat insulating varnish finish. Minimum cabinet size to be 18" x 24" x 4" the Architect. cadmium plated sheet steel boxes shall be used unless otherwise specifically noted or required. Boxes shall be installed in rigid RACEWAYS AND FITTINGS: and satisfactory manner, either by wood screws on wood, expansion shields on masonry, or machine screws on steel work. Fixture outlet TITLE boxes on finished furred ceilings shall be fitted with open covers OTHER SYSTEMS: Wother systems shall be as specifically indicated on

the drawings. Am empty conduits shall be provided with #9 iron pull

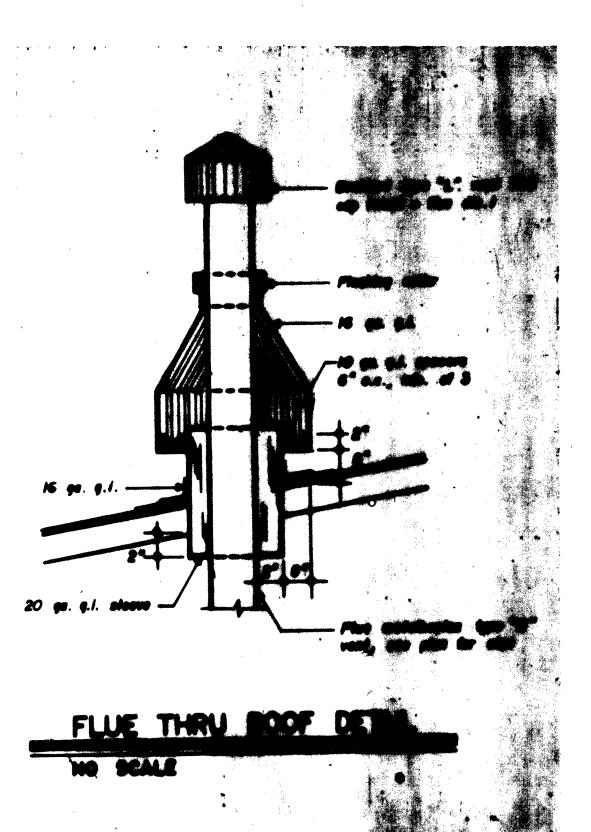
set to come flush as indicated on the drawings. Switch, telephone

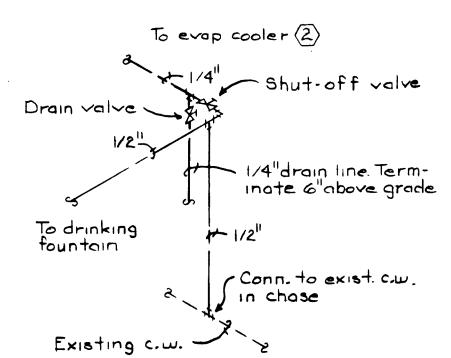
26 15630783 5/20/83 DATE CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION MEZZANINE ADDITION TO THE STREET SHEEPER MAINTENANCE BUILDING - SATTELITE # 2 ELECTRICAL NOTES APPROVALS LNGINEER DATE City Engineer equid Waste See Cover Sheet A C.E. (esign) See Cover, Sheet . C. E. Hydrology ! DRAWING SHEET E-2 10



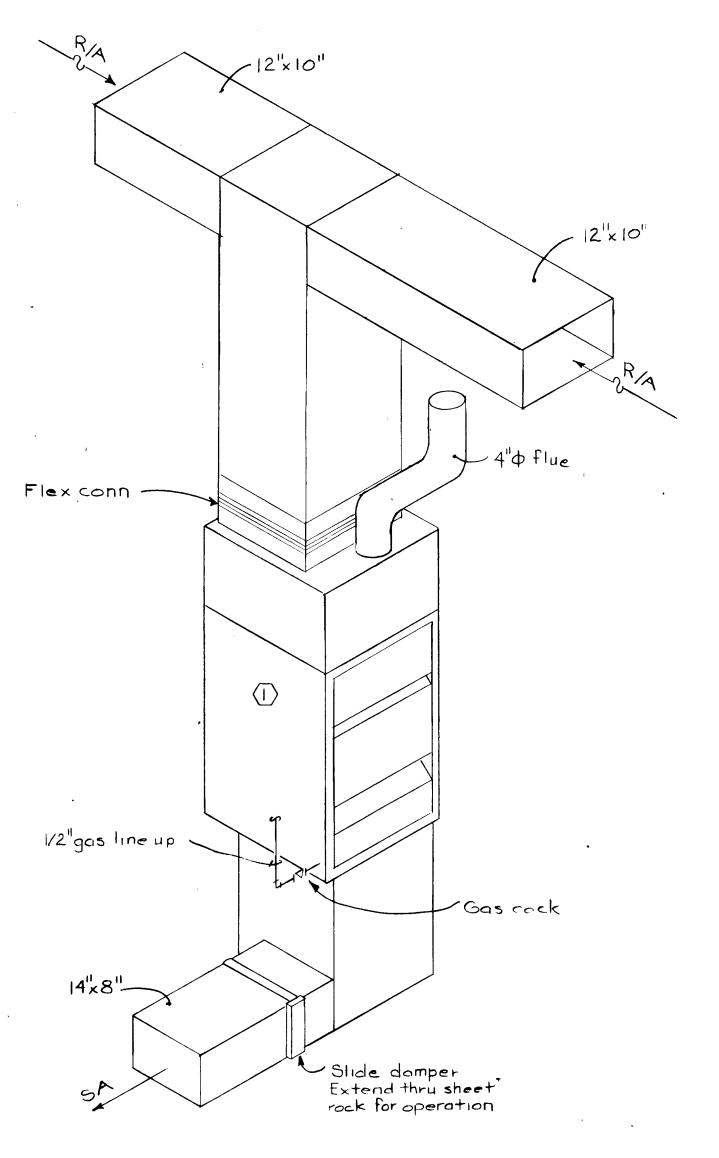


### TRANSFER DUCT DETAIL





## DRAIN VALVE DETAIL No Scale



# FURNACE DETAIL

	EQUIPMENT SCHEDULE
STMBOL	DESCRIPTION
1	Furnace: Downflow, natural gas fired, ASA approved with 100% safety cut-off and officed for operation at 5500' elevation, 50,000 BTUH input, 720 cfm at .4 s.p. 1#3 h.p. 115v-19. Provide with filter, well mounted thermostat. Day & Night model 396G024050.
2	Evaporative Cooler: Side discharge, complete with pads, pump, fleat and asphalt-coated reservoir. 1460 cfm at .5 s.p. 1.8 h.p. 2-speed. 115v-18. Arctic Circle model ES330.
3	Exhaust Fan: Ceffing mounted, all metal housing with aluminum blade wheel, back-draft damper, disconnect and wall cap. 303 cfm at .2 s.p. 1750 h.p., 1157-16. Page model DD-150G.

	SPECIFICATIONS
1.	All mechanical and plumbing work shall be done in accordance with the latest Uniform Code requirements.
2.	All ductwork shall be galvanized from ducks with standard joints.
3.	Insulate heating system meturn air dust with i' dust liner board fastened with metal stick elips.
4.	All demostic water supply piping shall be tope "L" copper with soldered bronze fittings.
5.	All het water piping and sold water piping in unheated spaces that be insulated with 1/2" Piberglass insulation with ASU covering
6.	Gas piping shall be black stoll pipe with mailrable from screwd fittings.

<del>\_\_\_\_</del> 26 15630883 RECORD DRAWING This drawing portrays the constitution As-Built. This firm is not responsible for modification or additions by others CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION MEZZANINE ADDITION TO THE STREET SWEEPER MAINTENANCE BUILDING - SATTELITE #2 MECHANICAL NOTES AND DETAILS ENGINEER DATE APPROVALS ENGINEER DATE City Engineer Liquid Waste See Cover Sheet A C E - Design See Cover Bheet A C E -Hydrology DRAWING NO. SHEET OF 1563

