

STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	029 S-172	1	7

Plotting Date: MAY-21-2008

STATE OF SOUTH DAKOTA  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

PROJECT 029 S-172  
INTERSTATE HIGHWAY 29  
ROBERTS COUNTY

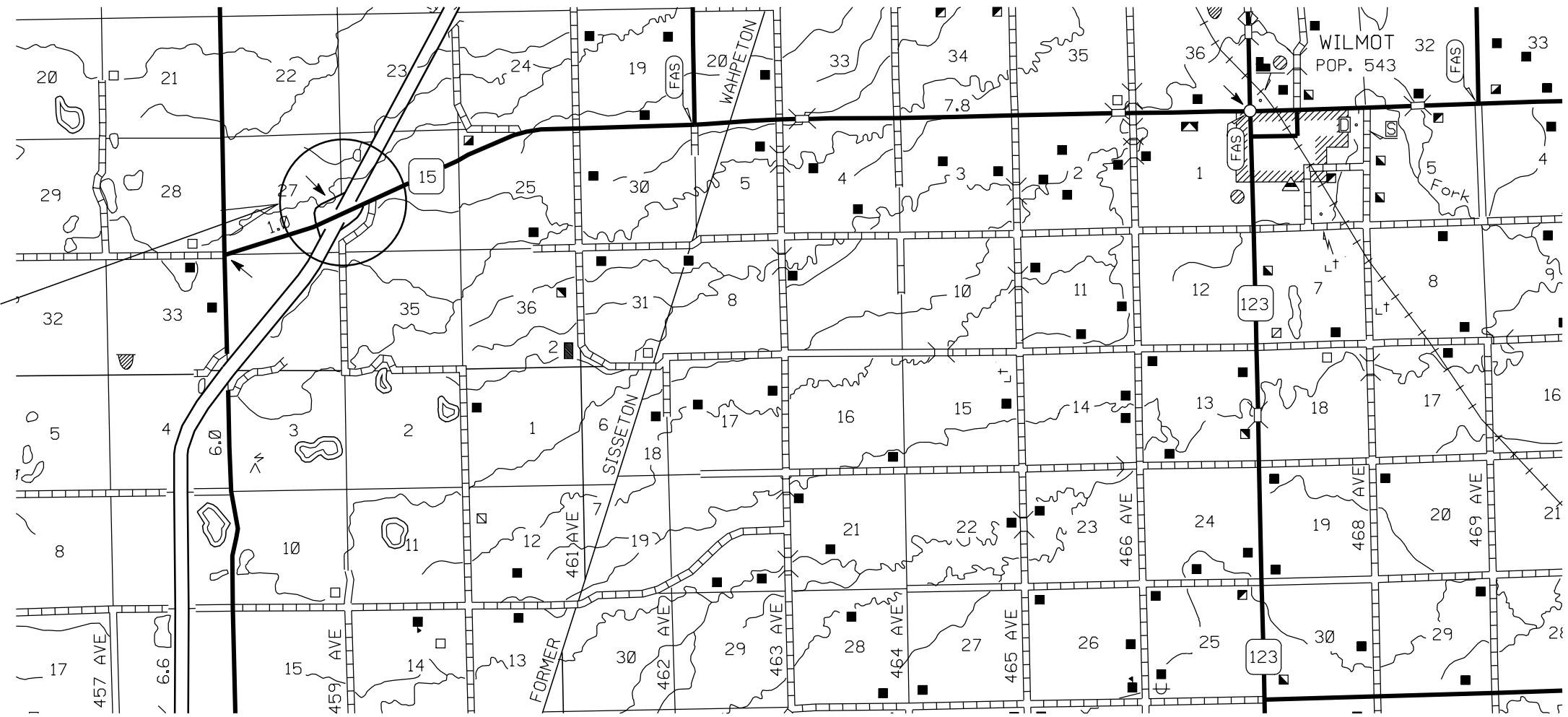
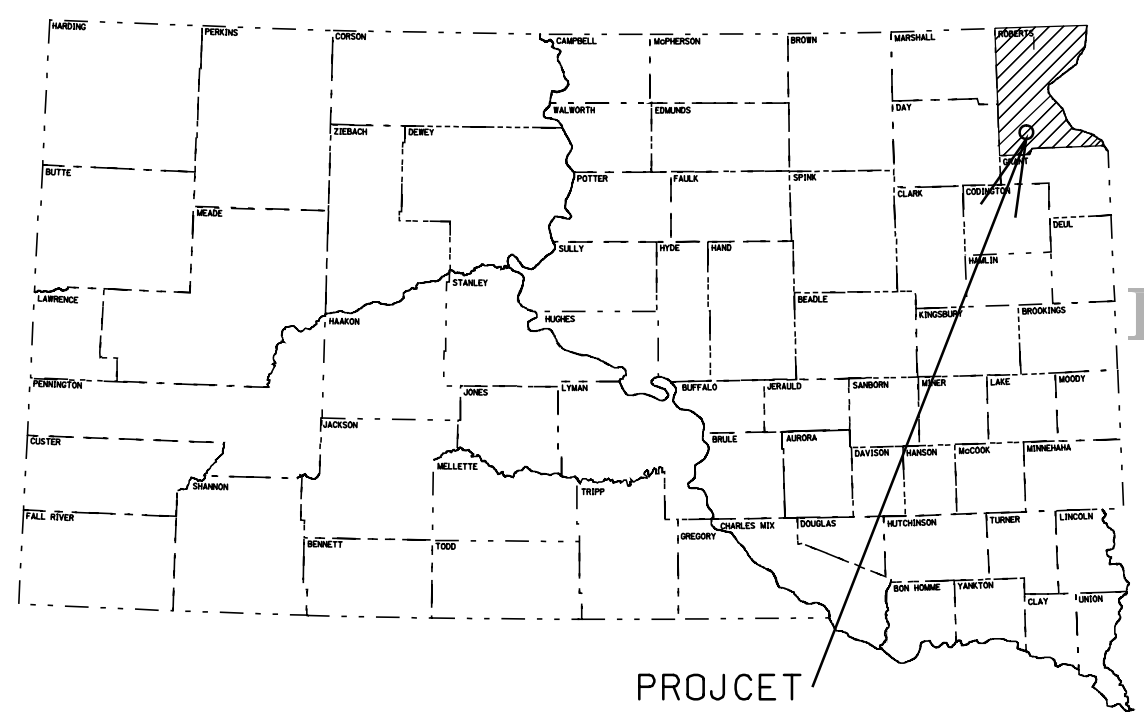
PCN i19a

REST AREA VANITY

REMOVAL AND REPLACEMENT

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET & LOCATION MAP
SHEET NO. 2	PLAN NOTES
SHEET NO. 3 thru 7	ORIGINAL PLANS



PROJECT NO. 029 S-172  
PCN i19a  
ROBERTS COUNTY  
WILMONT REST AREA



STATE OF SOUTH DAKOTA	PROJECT	SHEET NO.	TOTAL SHEETS
	029 S-172	2	7
Plotting Date: 16-JUL-2008			

**Whetstone Valley (Wilmot) Interstate Rest Area Vanity Removal and Replacement**

**Location: Interstate 29 MRM 213 in Roberts County. Approximately 19 Miles South of Sisseton, SD**

**Specifications**

Standard Specifications for Roads and Bridges, 2004 Edition and required provisions, supplemental specifications and/or special provisions as included in this proposal.

**Scope of Project**

Work of this project involves, but is not limited to, removal of pre cast concrete vanities, sinks, mirrors, soap dispensers, existing plumbing and all tile mentioned in description of work. The installation of Bradley lavatory systems, mirrors, tile, electrical and plumbing service to lavatory.

**Description of Work: Men's and Women's Restroom.**

**Men's Restroom:**

Shall remove one precast concrete vanity with tile and shall include the 1-1/2 rows of 4-1/4" x 4-1/4" x 1/4" tile between existing vanity and mirror, 2 vanity supports with 4 inch haydite block and tile, one 25-1/2" W x 34-1/4" H Plexiglas mirror, two Bobrick B8602 soap valves and plumbing to dispenser. Disconnect, remove and cap all water service to the two sinks. Install new water service centered in wall as required for new vanity. Disconnect and cap waste service flush with wall. Existing tile shall be protected from damage during construction.

Install one Bradley 2 Station Express Lavatory System Model SS-2N/IR/STD. The module multiple lavatory system shall provide two washing stations, with the centerline of each station located on 30 inch centers, perpendicular to wall. Each hand washing station shall comply with ANSI and ADA accessibility standards. Bowl material for each station shall be a cast polyester resin complying with ANSI Z124.3 and ANSI Z 124.6. Bowl finish shall be a decorative stone, Mesa Bone in color. Lavatory stations shall be secured to a rigid base concealing all supply and waste connections. Base shall support all hand washing systems to ANSI Z124.3 load ratings. Each hand washing station shall have a stream former served by an infrared sensing module with a single conical beam not exceeding the bowl perimeter. Each sensor shall have a 2-3 second turn-off delay and automatic shut-off after 30-45 seconds of continuous operation. Lavatory system shall include a Class II UL/CSA listed, 110/24 VAC plug in transformer, all waste and supply connections to wall, thermostatic mixing valve for hot and cold supplies with stop, strainer and check valves. LSD liquid soap dispenser with one integral dispenser shall be included. Panel/Tray covers and spray head cover shall be Gray in color. Shall be designed and installed to comply with all ADA guidelines on reaches, clearances and operation.

All exposed areas shall be covered with tile. (No bare block/wall shall be exposed)  
All walls/floors needed to be tiled shall be properly cleaned, prepped and holes

shall be filled according to tile manufactures recommendations before tile is adhered to wall/floor surface.

Shall install one new countersunk 25-1/2" W x 34-1/4" H frameless type AP Plexiglass mirror, 1/4 inch thick acrylic silvered according to plate glass mirror specifications in place of existing mirror. Contractor shall supply the mirror.

Shall replace the tiles where soap dispenser valves were removed. Install new floor tile where 4 inch vanity supports contacted floor. Install new grout on approximately 6 tiles around each soap dispensers.

Shall install one dedicated 20 amp ground fault interrupter circuit service to supply solenoids on lavatories.

**Women's Restroom:**

Shall remove one precast concrete vanity with tile and shall include the 1-1/2 rows of 4-1/4" x 4-1/4" x 1/4" tile between existing vanity and mirror, 2 vanity supports with 4" haydite block and tile, two 25-1/2" W x 34-1/4" H Plexiglas mirrors, two Bobrick B8602 soap valves and plumbing to dispenser. Disconnect, remove and cap all water service to the outer sinks. Disconnect and cap waste service flush with wall. Existing tile shall be protected from damage during construction.

Install one Bradley 3 Station Express Lavatory System Model SS-3N/IR/STD. The module multiple lavatory system shall provide three washing stations, with the centerline of each station located on 30 inch centers, perpendicular to wall. Each hand washing station shall comply with ANSI and ADA accessibility standards. Bowl material for each station shall be a cast polyester resin complying with ANSI Z124.3 and ANSI Z 124.6. Bowl finish shall be a decorative stone, Mesa Bone in color. Lavatory stations shall be secured to a rigid base concealing all supply and waste connections. Base shall support all hand washing systems to ANSI Z124.3 load ratings. Each hand washing station shall have a stream former served by an infrared sensing module with a single conical beam not exceeding the bowl perimeter. Each sensor shall have a 2-3 second turn-off delay and automatic shut-off after 30-45 seconds of continuous operation. Lavatory system shall include a Class II UL/CSA listed, 110/24 VAC plug in transformer, all waste and supply connections to wall, thermostatic mixing valve for hot and cold supplies with stop, strainer and check valves. LSD liquid soap dispenser with two integral dispensers shall be included. Panel/Tray covers and spray head cover shall be Gray in color. Shall be designed and installed to comply with all ADA guidelines on reaches, clearances and operation.

All exposed areas shall be covered with tile. (No bare block/wall shall be exposed)  
All walls/floors needed to be tiled shall be properly cleaned, prepped and holes shall be filled according to tile manufactures recommendations before tile is adhered to wall/floor surface.

Shall install one countersunk 47-1/4" W x 34-1/4" H frameless type AP Plexiglass mirror, 1/4 inch thick acrylic silvered according to plate glass mirror specifications centered over lavatory. Contractor shall supply the mirror.

Shall replace the tiles where soap dispenser valves were removed. Install new floor tile where 4 inch vanity supports contacted floor. Install new grout on approximately 6 tiles around each soap dispensers.

Shall install one dedicated 20 amp ground fault interrupter circuit service to supply solenoids on lavatory.

**Visitors Center:**

Access covers to plumbing and soap valves are in this room behind metal studded-sheet rocked walls. All unused access covers shall be removed and sheet rock replaced, taped, textured, primed and painted to match existing paint. One access cover is located in lobby area with a brick wall. It shall be removed and finished off with brick to match existing brick. DOT will supply the brick. Shall install one access cover for new services to each vanity and contractor shall use removed access covers for this if they are not damaged during removal. All unused water service lines shall be removed.

**General:**

All details and dimensions of the original plans for construction and special provisions supplied are for information only. It is the contractor's responsibility to inspect and verify the actual field conditions and any necessary dimensions affecting satisfactory completion of the work for this project. Contractor shall be expected to follow procedures and requirements stated.

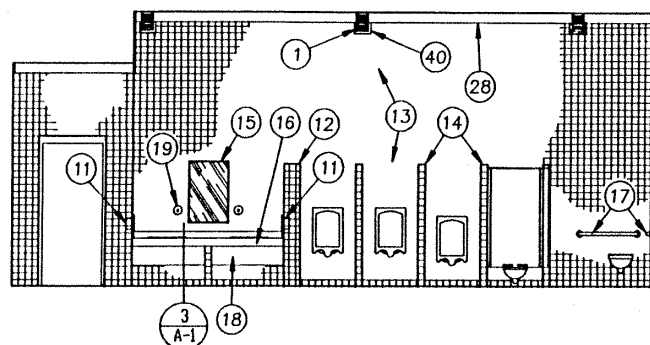
DOT has on hand and will supply all tile and brick needed to complete the job.

All construction/demolition material shall become property of the contractors and be required to dispose of properly. Any damage to building or property caused by remodeling shall be the contractor's responsibility to repair/replace to the Departments satisfaction and at no cost.

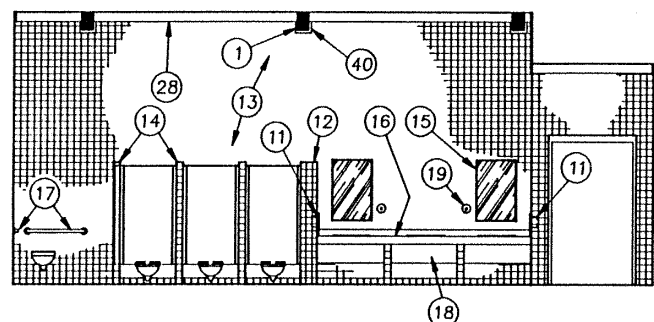
DOT would like to have work take place and completed during the month of January or February of 2009. DOT will close Rest Area during time of remodeling. Contractor shall provide a two week notice to DOT prior to starting work.

Please indicate time needed to complete. DOT contact person, Jerry Maier @ 605-626-7888

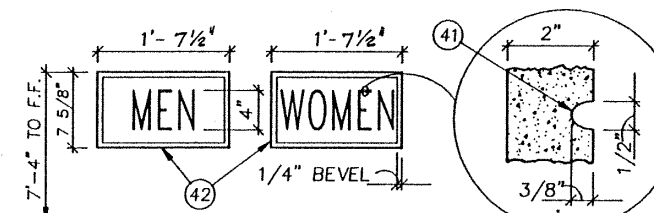
FED. ROAD REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	SD	P 29-9 (47) 213	16	75



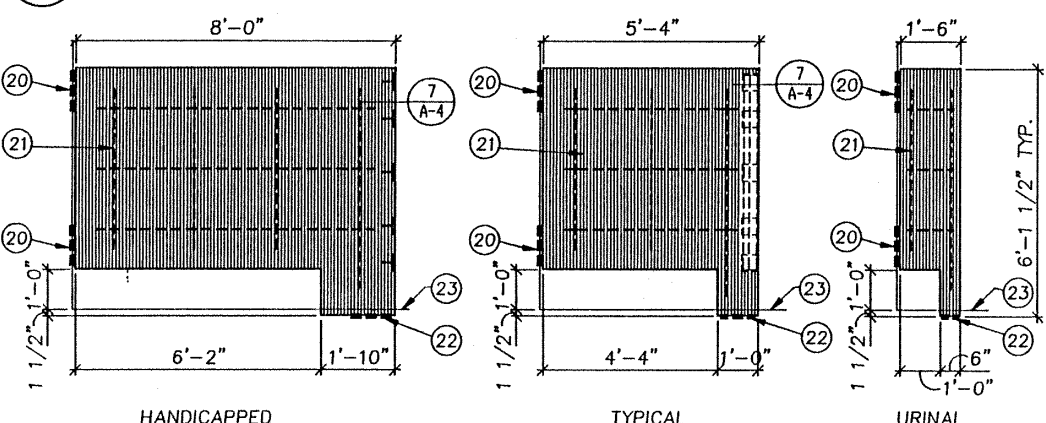
1 MEN'S TOILET ELEVATION 1/4"  
A-1



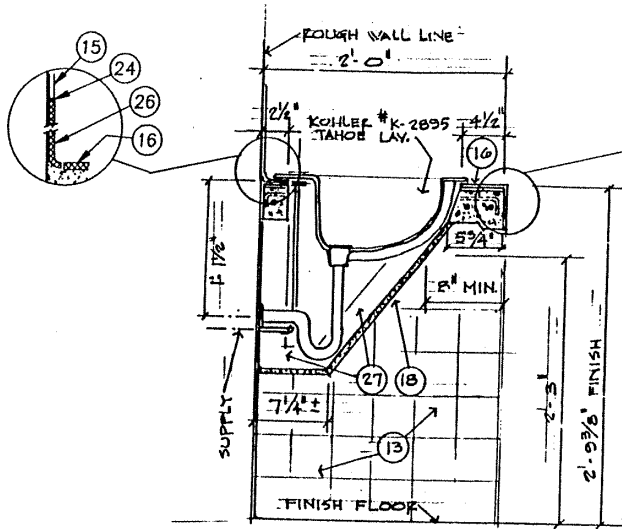
2 WOMEN'S TOILET ELEVATION 1/4"  
A-1



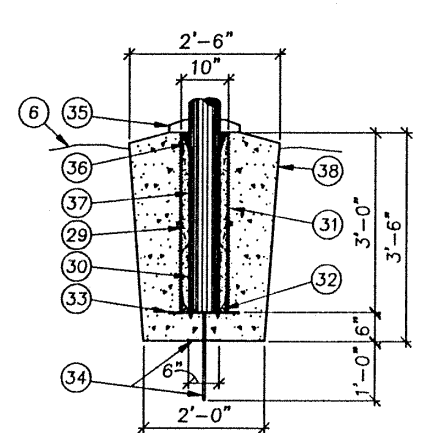
4 RESTROOM SIGN DETAILS 1 1/2"  
A-1



PRE-CAST TOILET PARTITION ELEVATIONS 1/2"

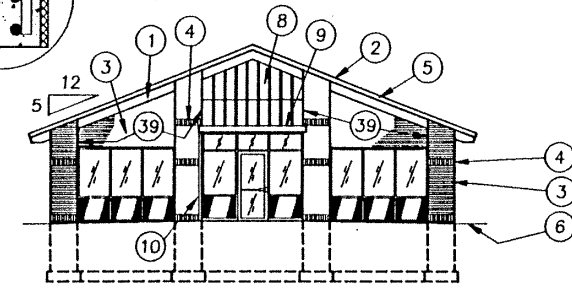


3 DETAIL 1 1/2"  
A-1

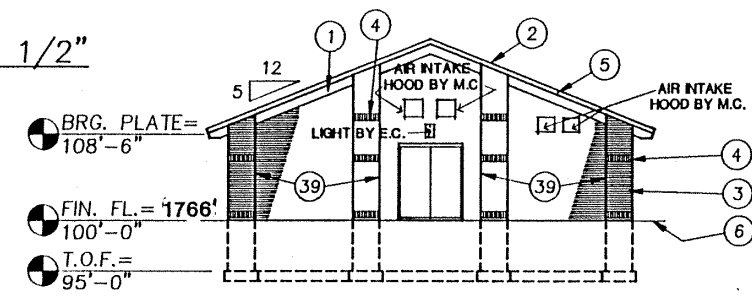


FLAGPOLE FOUNDATION DTL. 1 1/2"  
(SEE SITE PLAN)

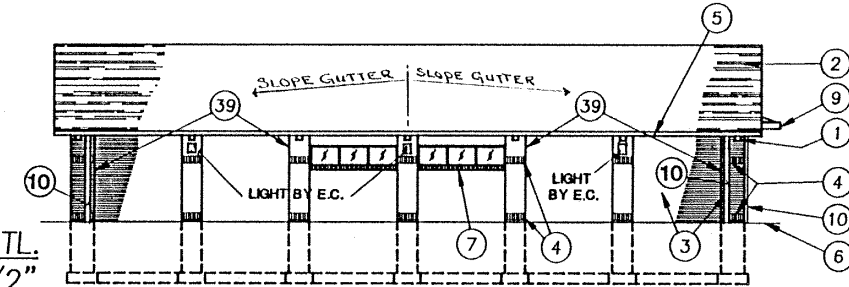
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Architect under the laws of the State of South Dakota.  
Gene Murphy Date 1-22-92 Reg. No. 1657



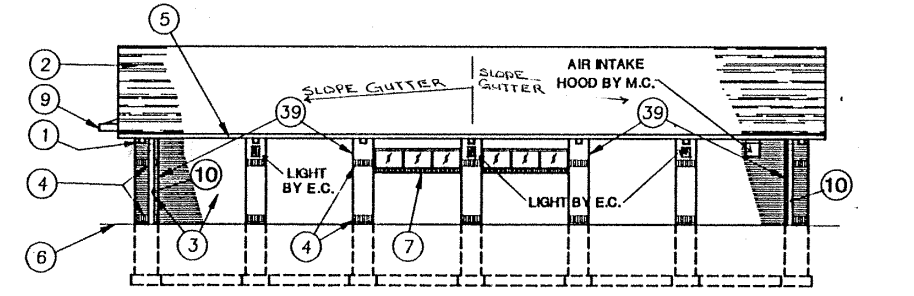
EAST ELEVATION 1/8"



WEST ELEVATION 1/8"



SOUTH SIDE ELEVATION 1/8"



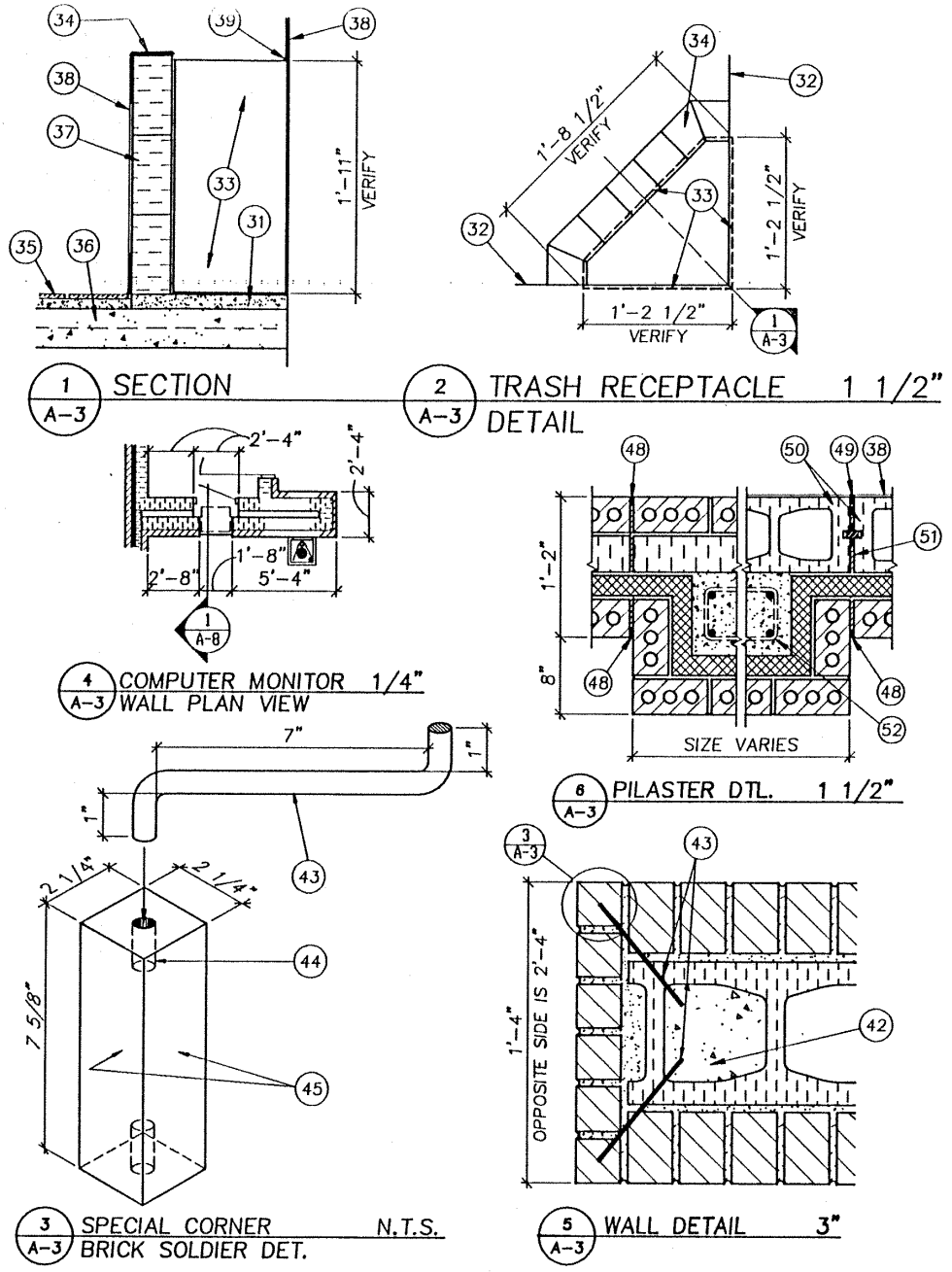
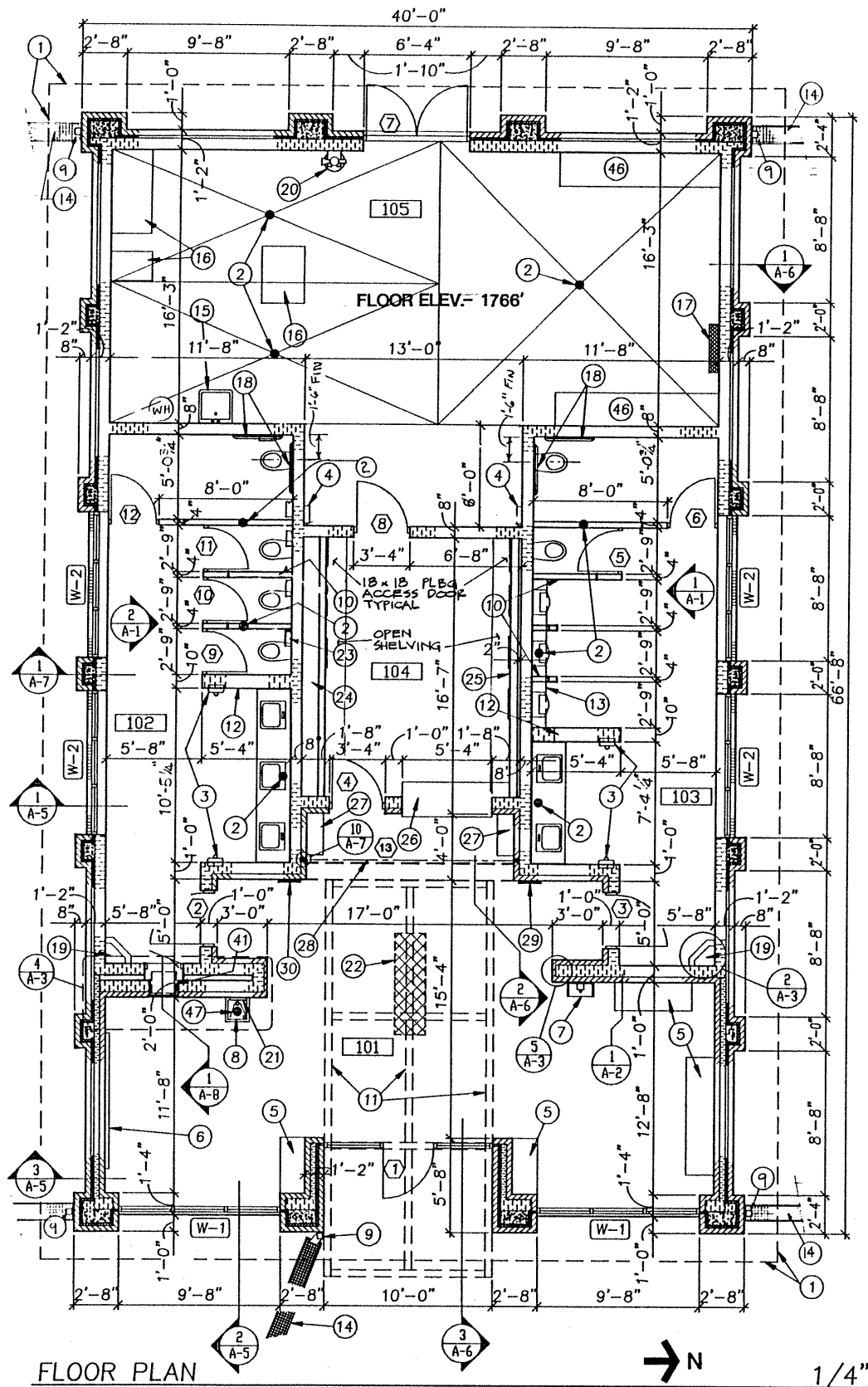
NORTH SIDE ELEVATION 1/8"

KEYED NOTES

- 1 6 3/4"x10 1/2" LAMINATED WOOD BEAM.
- 2 HAND SPLIT CEDAR SHAKES, CLASS "B".
- 3 FACE BRICK (MODULAR).
- 4 FACE BRICK SOLDIERS.
- 5 24 GA. GALV. FASCIA W/ FACTORY APPLIED COLOR.
- 6 APPROXIMATE FINISH GRADE.
- 7 FACE BRICK ROWLOCK SILL.
- 8 PRE-FINISHED STANDING SEAM METAL ROOFING.
- 9 COPPER GUTTER.
- 10 COPPER DOWNSPOUT.
- 11 RECESSED HAND DRYER BY E.C.
- 12 6'-0" HIGH CONCRETE BLOCK PARTITION.
- 13 CERAMIC TILE, THIN SET.
- 14 4" THICK PRE-CAST CONCRETE TOILET PARTITIONS COVERED W/ CERAMIC TILE, THIN SET.
- 15 25 1/2" x 34" RECESSED PLEXIGLASS MIRROR TO FIT CERAMIC TILE SIZE.
- 16 VANITY TOP, 3" THICK PRE-CAST CONCRETE W/ 1/4" THICK CERAMIC TILE W/ 1/2" SETTING BED.
- 17 42" STAINLESS STEEL GRAB BAR.
- 18 PLUMBING ENCLOSURE, 3/4" PARTICLE BOARD (45# DENSITY) COVERED W/ LAMINATED PLASTIC AND ATTACHED W/ TAMPERPROOF SCREWS W/ GROMMETS.
- 19 SOAP DISPENSER.
- 20 WELD PLATE CAST INTO PARTITION & WELDED TO PLATE ANCHOR (12" x 8" x 1/4") EMBEDDED INTO WALL W/ CORES GROUTED.
- 21 #5 RE-BARS TYPICAL.
- 22 1/4" THICK WELD PLATES.
- 23 FINISH FLOOR LINE, SET PARTITION ON ROUGH FLOOR SLAB.
- 24 CAULKING.
- 25 1/2" THICK QUARRY TILE ON 1" THICK SETTING BED.
- 26 SQUARE EDGE TILE AROUND MIRROR, SMOOTH ALL SHARP EDGES.
- 27 2x3 WOOD FRAME SUPPORT, FASTEN TO WALL & PRE-CAST SLAB W/ LAG BOLTS & EXPANSION SHIELDS.
- 28 1x6 S4S CEDAR TRIM.
- 29 DRY SAND TIGHTLY TAMPED AFTER ALIGNING POLE.
- 30 BLACK ASPHALTUM PAINT ON POLE BELOW GRADE.
- 31 FOUNDATION SLEEVE, HOT DIP GALVANIZED STEEL.
- 32 STEEL CENTERING WEDGES.
- 33 STEEL BASE PLATE.
- 34 STEEL SUPPORT PLATE WELDED TO GROUND SPIKE.
- 35 ALUMINUM FLASH COLLAR.
- 36 HARDWARE WEDGES, REMOVE AFTER TAMPING SAND.
- 37 ALUMINUM FLAGPOLE.
- 38 M6 CONCRETE.
- 39 WALL CONTROL JOINT.
- 40 1x2 S4S CEDAR TRIM.
- 41 DARK COLOR TO BE SELECTED LATER.
- 42 2" THICK PRE-CAST CONCRETE.

DATE	1-22-92	SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION ROBERTS COUNTY REST AREA BUILDING SOUTH DAKOTA PROJECT # P 29-9 (47) 213
REVISIONS		
ARCHITECTURE AUTOMATED, INC.		SHEET A-1

ORIGINAL PLANS



FED. ROAD REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	SD	P 29-9 (47) 213	18	7

- KEYED NOTES**
- EDGE OF ROOF OVERHANG.
  - FLOOR DRAIN BY M.C. (TYPICAL). DISH DOWN TO FLOOR DRAIN IN MECHANICAL RM. 105.
  - RECESSED HAND DRYER BY E.C. 40" TO BOTTOM
  - SURFACE MOUNTED SOAP TANK BY G.C., CONCEAL PIPING IN WALL.
  - INTERIOR CONCRETE BENCH, SEE DETAIL 1/A-2.
  - BULLETIN BOARD CABINET. 30" TO BOTTOM
  - TELEPHONE CUBICLE AND TELEPHONE BY OTHERS. ADR MTG.
  - DRINKING FOUNTAIN BY M.C.
  - COPPER DOWNSPOUT.
  - 4" THICK PRECAST CONCRETE PARTITIONS COVERED W/ CERAMIC TILE, THIN SET.
  - LOBBY/CANOPY BEAMS ABOVE, SEE FRAMING PLAN.
  - 6'-0" HIGH CONCRETE BLOCK PARTITION.
  - TRENCH UNDER URINALS, SEE DETAIL 4/A-2.
  - SIDEWALK TRENCH DRAIN, SEE DETAIL ON SHT. A-2.
  - MOP SINK BY M.C.
  - 2" THICK CONCRETE PAD UNDER MECHANICAL EQUIPMENT. VERIFY SIZE W/ M.C.
  - ELECTRICAL PANEL BY E.C.
  - STAINLESS STEEL GRAB BAR.
  - WASTE RECEPTACLE, SEE SPECIAL PROVISIONS.
  - BRACKET MOUNTED FIRE EXTINGUISHER.
  - "GREAT FACES, GREAT PLACES" SIGN ABOVE DRINKING FOUNTAIN.
  - MOBILE PAMPHLET RACK, SEE SPECIAL PROVISIONS.
  - SANITARY NAPKIN WASTE RECEPTACLE, MOUNT 48" FROM FINISH FLOOR TO TOP OF RECEPTACLE.
  - PLUMBING CHASE.
  - FURRED WALL.
  - COUNTER.
  - DISPLAY RACK.
  - ELECTRIC OVERHEAD ROLLING DOOR.
  - MEN'S SIGN, SEE DETAIL 4/A-1.
  - WOMEN'S SIGN, SEE DETAIL 4/A-1.
  - 1 1/2" TOPPING.
  - EDGE OF BLOCK WALL.
  - WASTE RECEPTACLE.
  - BULLNOSE CERAMIC TILE ON TOP EDGE.
  - 1/2" THICK QUARRY TILE ON 1" THICK SETTING BED.
  - 4" THICK CONCRETE FLOOR SLAB W/ 6x6-10/10 WIRE MESH ON 6 MIL VAPOR BARRIER.
  - 4" SOLID CONCRETE BLOCK.
  - CERAMIC TILE, THIN SET.
  - BRING CERAMIC TILE ON WALL TO EDGE OF RECEPT.
  - NO 40
  - COMPUTER MONITOR.
  - FILL VOID W/ CONCRETE.
  - 1/4" METAL TIES.
  - PROVIDE HOLE IN TOP & BOT. FOR METAL TIES.
  - FINISH TWO EXPOSED FACES.
  - SHELVING BY D.O.T.
  - FLOOR DRAIN UNDER DRINKING FOUNTAIN AND 10" FROM WALL.
  - CONTROL JOINT MATERIAL & SEALANT.
  - CONT. VERTICAL SEALANT JOINT IN CERAMIC TILE.
  - SASH BLOCK.
  - EXTRUDED JOINT MATERIAL.
  - 4-#5'S VERT. W/ #3 TIES @ 12" O.C. CAST INTO CLASS "A" CONCRETE.

ROOM FINISH SCHEDULE		FLOOR	BASE	WALL	WALL F.	CLG.	CLG. FIN.	CEILING HEIGHT	REMARKS														
NO.	ROOM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
101	ENTRANCE AREA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
102	WOMEN'S TLT.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
103	MEN'S TOILET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
104	TOURISM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
105	MECHANICAL ROOM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

DATE 1-22-92

REVISIONS

SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION  
ROBERTS COUNTY REST AREA BUILDING  
SOUTH DAKOTA PROJECT # P 29-9 (47) 213

ARCHITECTURE AUTOMATED, INC.  
800 WEST AVENUE NORTH  
WAX PALLE, SOUTH DAKOTA 57104  
(605) 396-3728

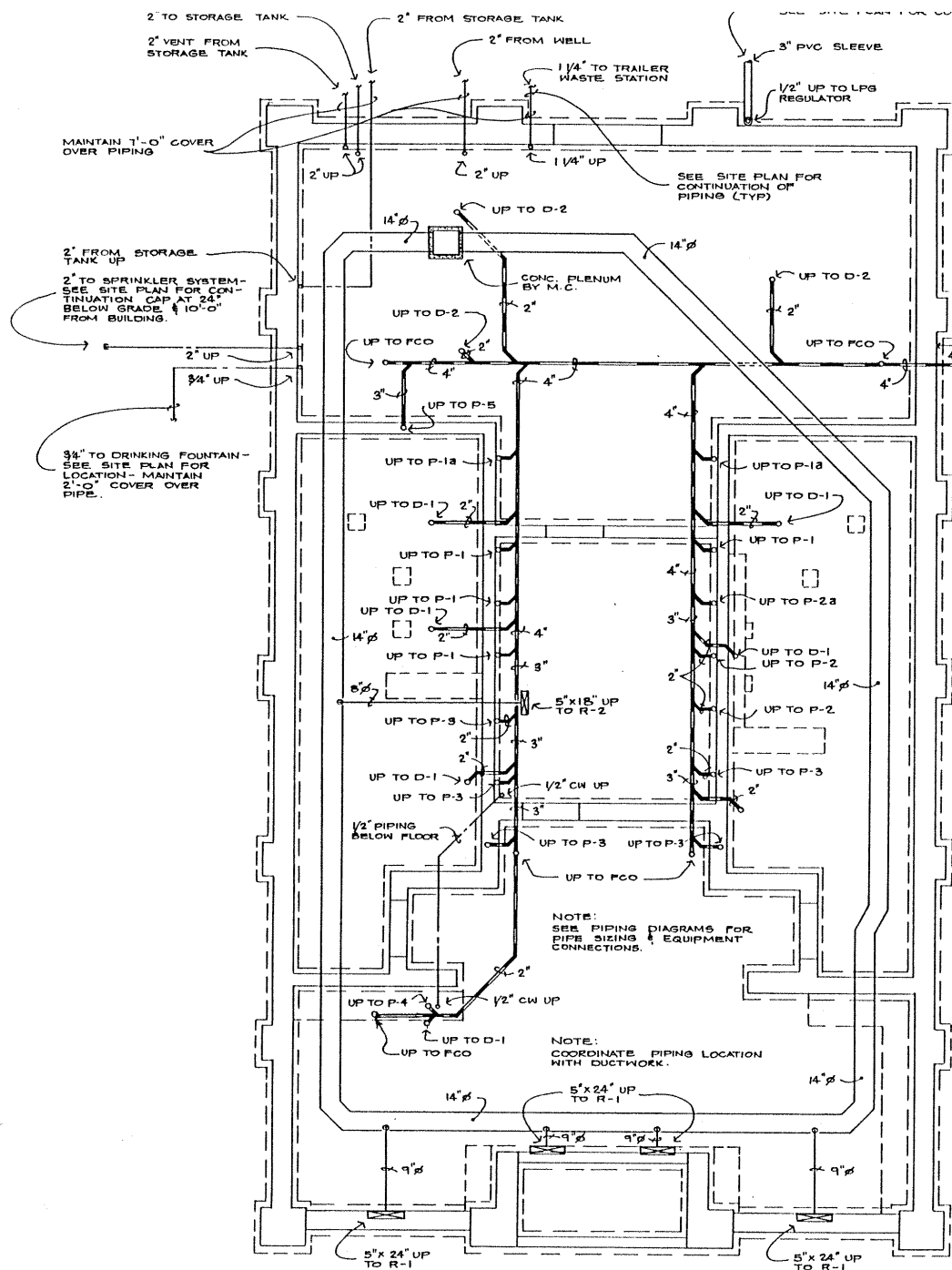
SHEET A-3

ORIGINAL PLANS

STATE OF SOUTH DAKOTA	PROJECT 029 S-172	SHEET NO. 5	TOTAL SHEETS 7
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Plotting Date: 16-JUL-2008

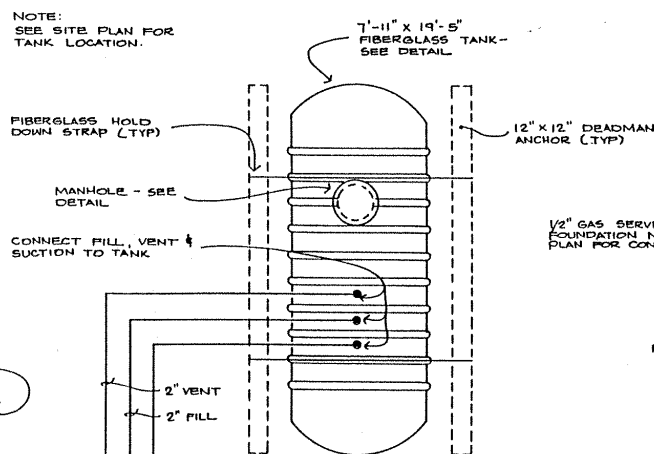
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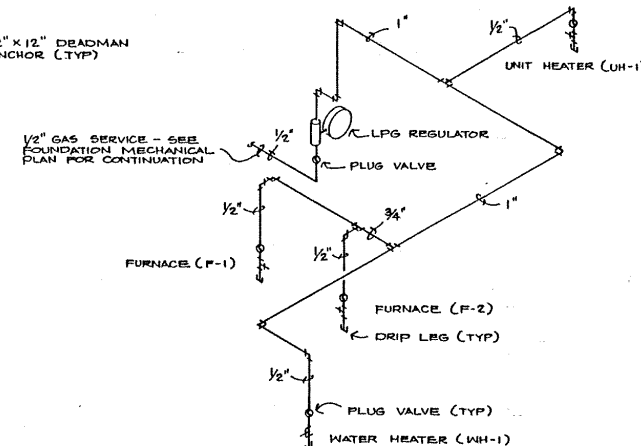
FOUNDATION MECHANICAL PLAN  
SCALE: 1/4" = 1'-0"



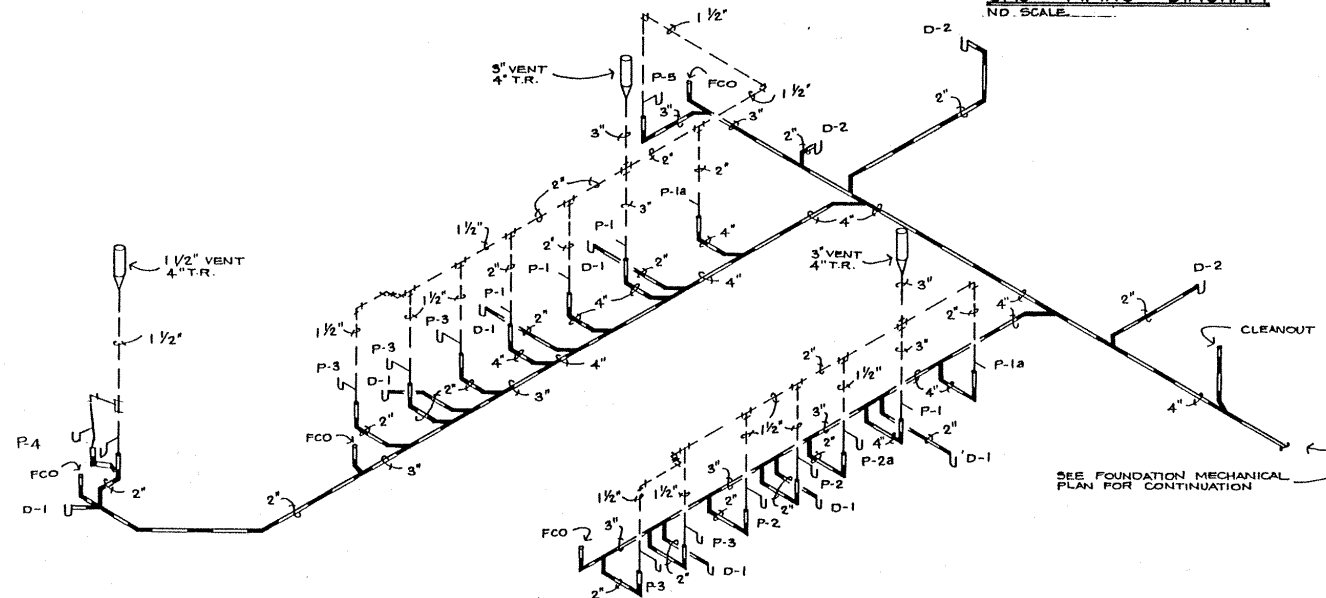
NOTE:  
SEE SITE PLAN FOR TANK LOCATION.



STORAGE TANK PLAN  
NO SCALE



GAS PIPING DIAGRAM  
NO SCALE



WASTE & VENT PIPING DIAGRAM  
NO SCALE



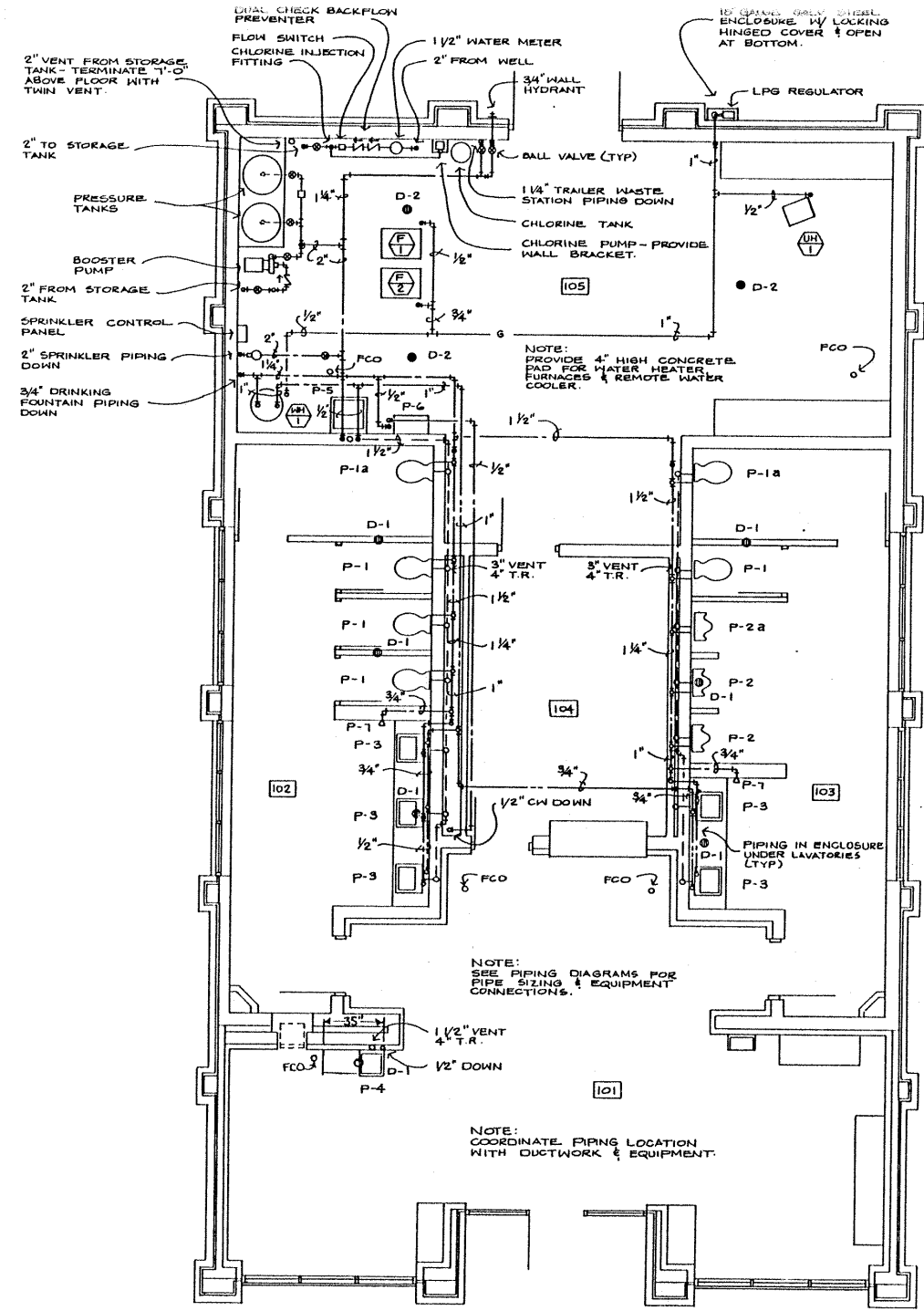
DATE 1-22-92	SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION ROBERTS COUNTY REST AREA BUILDING SOUTH DAKOTA PROJECT # P 29-9 (47) 213
REVISIONS	
ARCHITECTURE AUTOMATED, INC.	
900 WEST AVENUE NORTH BROOK FALLO, SOUTH DAKOTA 57104 (605) 338-3732	
SHEET M-3	

Engineering Services  
Consulting Engineers  
2870 South Garfield Avenue  
Sioux Falls, S.D. 57105  
Phone: (605) 338-6558

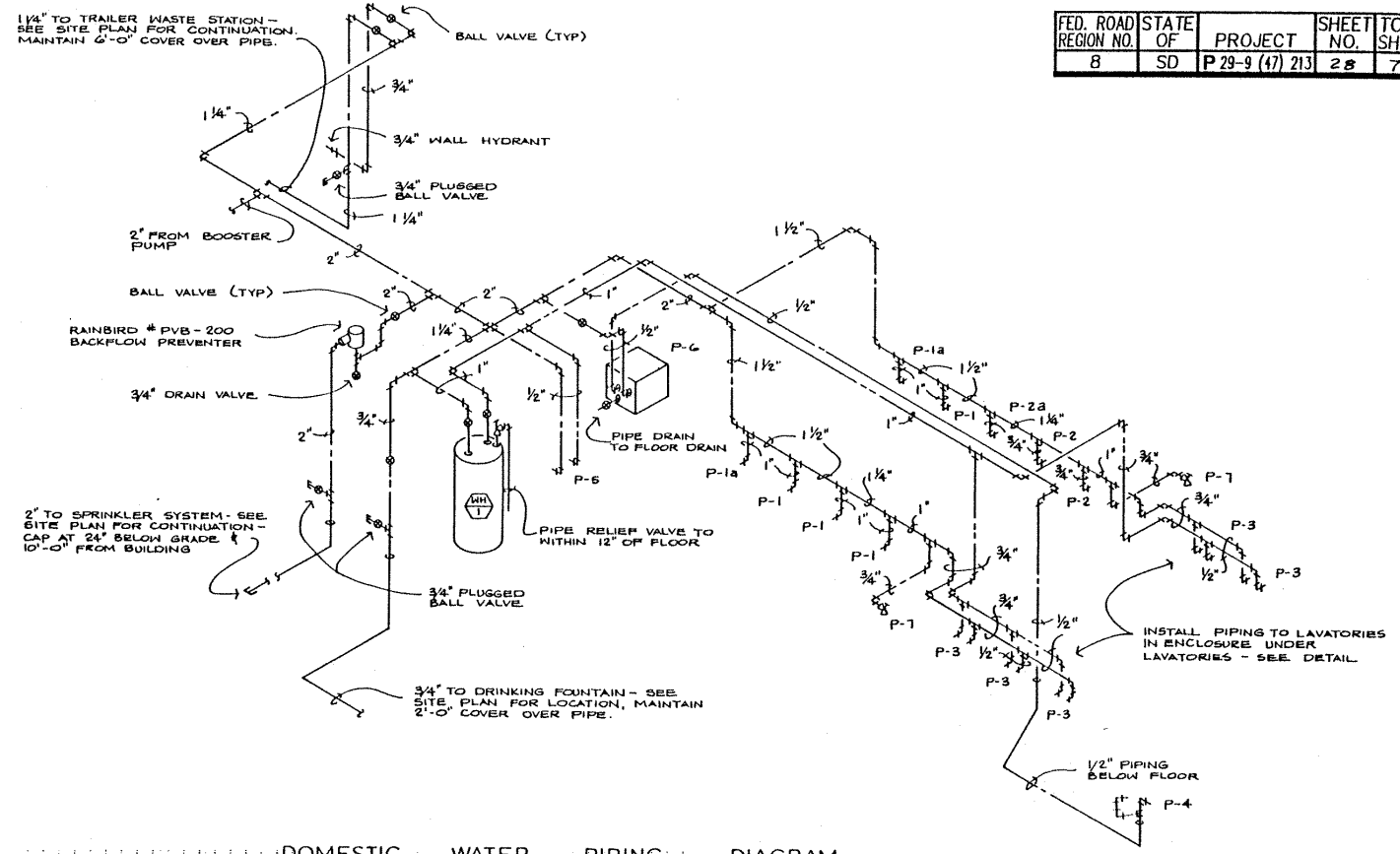
Plotting Date: 16-JUL-2008

FED. ROAD REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	SD	P 29-9 (47) 213	28	75

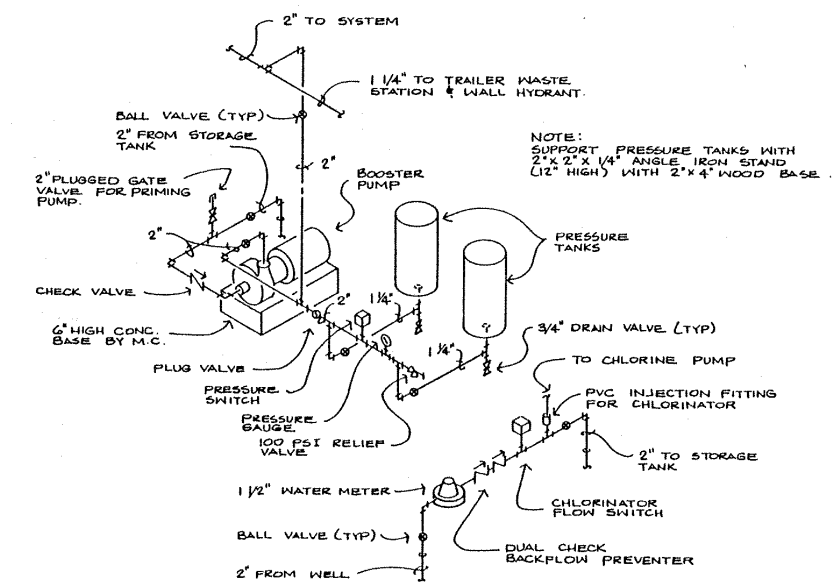
ORIGINAL PLANS



PLUMBING PLAN  
SCALE: 1/4" = 1'-0"



DOMESTIC WATER PIPING DIAGRAM  
NO SCALE



WATER PIPING DIAGRAM - BOOSTER SYSTEM  
NO SCALE

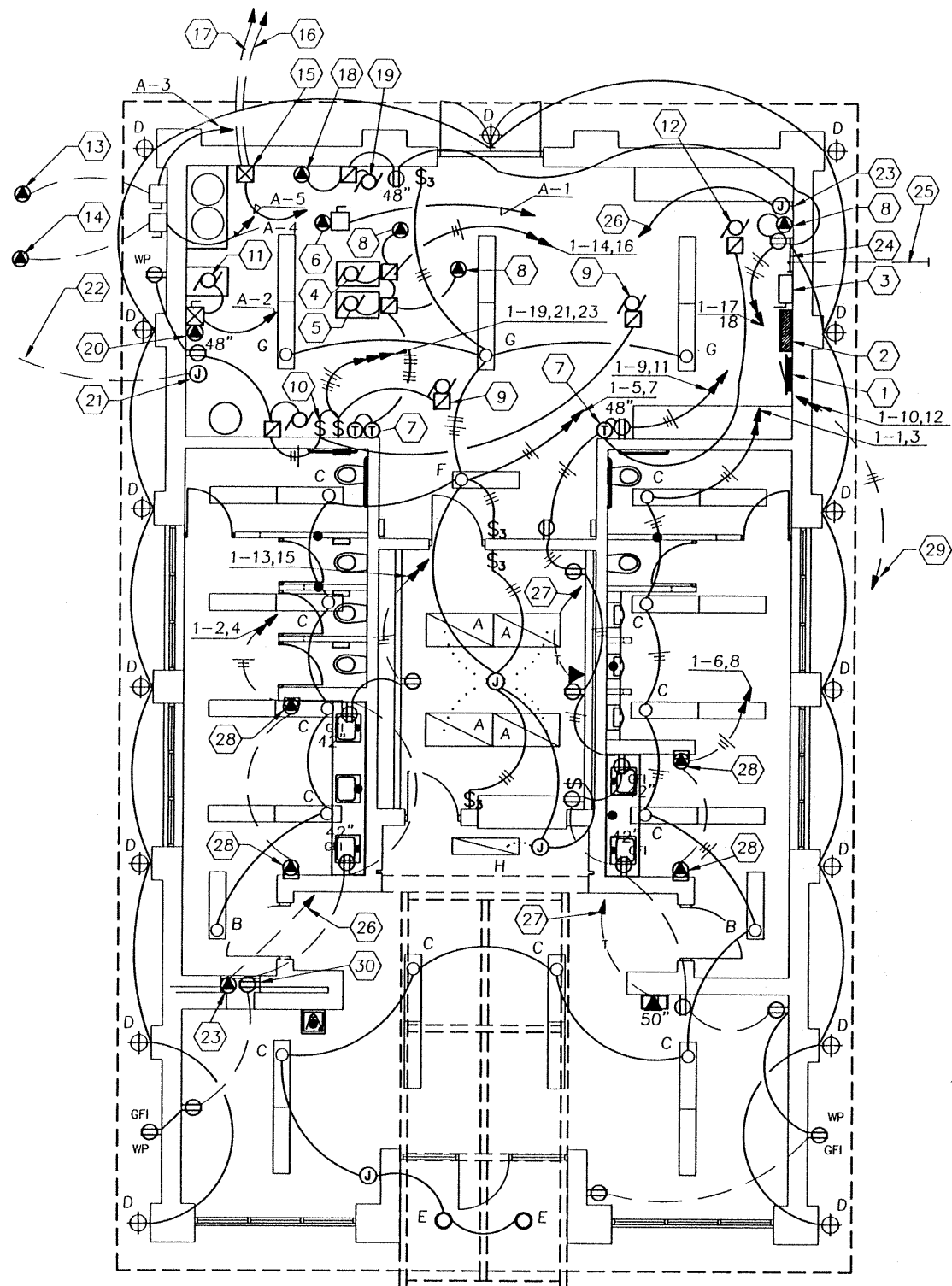
Engineering Services  
Consulting Engineers



DATE	1-22-92	SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION ROBERTS COUNTY REST AREA BUILDING SOUTH DAKOTA PROJECT # P 29-9 (47) 213
REVISIONS		
ARCHITECTURE AUTOMATED, INC.		SHEET M-4

Plotting Date: 16-JUL-2008

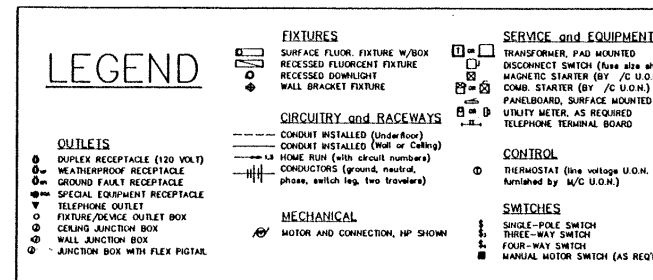
FED. ROAD REGION NO.	STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
8	SD	IR 29-9 (47) 213	30	75



FLOOR PLAN - ELECTRICAL



1/4"



### LIGHTING FIXTURE SCHEDULE

ITEM	MANUFACTURER	CATALOG NUMBER	MOUNTING	LAMP DATA			REMARKS	
				TYPE	NO.	WATTS		
A	LITHONIA	2GT240-A12-ES	GRID	F	2	34	F40LW	
B	LITHONIA	512-240-ES	SURFACE	F	2	34	F40LW	VANDAL RESISTANT
C	LITHONIA	513-440-ES	SURFACE	F	4	34	F40LW	VANDAL RESISTANT
D	LITHONIA	TWL-70SNHP-PE	WALL	S	1	70	LU70	VANDAL RESISTANT
E	LITHONIA	304-70SR-AL	SURFACE	S	1	70	LU70	VANDAL RESISTANT
F	LITHONIA	C240-ES-HC	SUSPEND	F	2	34	F40LW	
G	LITHONIA	BTC240-ES-HC	SUSPEND	F	4	34	F40LW	
H	LITHONIA	SPF240-A12-ES	GRID	F	2	34	F40LW	

### DISTRIBUTION PANEL NO. DP-A

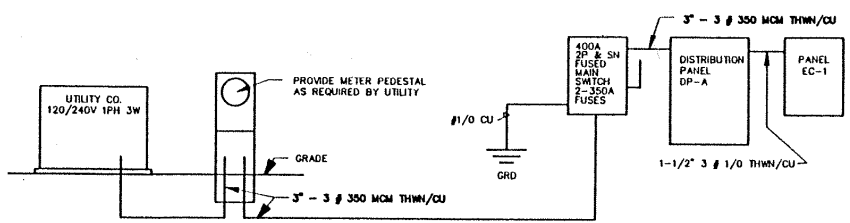
VOLTS 120/240 PHASE 1 WIRE 3 MAIN CAPACITY 400 AMPERS  
FEEDER SIZE 3 # 350 MCM THWN/CU MAIN CONNECTION MLO

ITEM NO.	EQUIPMENT FED	CIRCUIT BREAKER			LOAD DISTRIBUTION			REMARKS
		AMPS	POLES	FRAME TYPE	WIRE	PHASE A	PHASE B	
1	ELECTRIC HEAT COIL	70	2	FA	4	6.0	6.0	
2	BOOSTER PUMP	60	2	FA	8	3.3	3.3	
3	COND. UNIT CU-1	45	2	FA	10	2.4	2.4	
4	COND. UNIT CU-2	45	2	FA	10	2.4	2.4	
5	WELL PUMP	20	2	FA	3	1.2	1.2	
6	EC-1	150	2	Q2	1/0	14.6	14.6	
7	SPARE	20	2	FA	-	-	-	
8	SPARE	20	2	FA	-	-	-	

### EC-1

VOLTS 120/240 PHASE 1 WIRE 3 MAIN CAPACITY 150 AMPERS  
MOUNTING SURFACE FEEDER SIZE 3 # 1/0 THWN MAIN CONNECTION MLO

CCT NO.	LOAD	WATTS	PHASE	AMPS	CB	LOAD DISTRIBUTION			LOAD	CCT NO.			
						CB	AMPS	WIRE					
1	LIGHTS	900	12	1	Q0	l1	Q0	30	1	10	2300	HAND DRYERS	2
3	LIGHTS	1000	12	1	Q0	l2	Q0	30	1	10	2300	HAND DRYERS	4
5	LIGHTS	900	12	1	Q0	l1	Q0	30	1	10	2300	HAND DRYERS	6
7	LIGHTS	1200	12	1	Q0	l2	Q0	30	1	10	2300	HAND DRYERS	8
9	RECEPTACLES	1200	12	1	Q0	l1	Q0	20	1	12	1000	VENDING RECEPT	10
11	RECEPTACLES	1000	12	1	Q0	l2	Q0	20	1	12	1000	VENDING RECEPT	12
13	RECEPTACLES	1000	12	1	Q0	l1	Q0	20	1	12	1600	FURNACE	14
15	RECEPTACLES	1000	12	1	Q0	l2	Q0	20	1	12	1000	FURNACE	16
17	RECEPTACLES	800	12	1	Q0	l1	Q0	20	1	12	1000	EXTERIOR LIGHTS	18
19	EF-1 & 2	1000	12	1	Q0	l2	Q0	20	1	-	500	SPARE	20
21	EWC	1600	12	1	Q0	l1	Q0	20	1	-	500	SPARE	22
23	RECEPTACLES	600	12	1	Q0	l2	Q0	20	1	-	1200	SPARE	24



ELECTRICAL SERVICE AND FEEDER DIAGRAM

- ### KEYED NOTES
- ELECTRICAL CABINET EC-1.
  - DISTRIBUTION PANEL DP-A.
  - MAIN SWITCH AND METERING EQUIPMENT.
  - FURNACE F-1. 3/4 HP - 120V.
  - FURNACE F-2. 1/2 HP - 120V.
  - ELECTRIC DUCT HEATER. 12.0 KW - 240V.
  - INSTALL AND CONNECT THERMOSTAT PROVIDED BY MC.
  - CONNECT 120V TO DAMPER MOTOR.
  - EXHAUST FAN EF-1. 1/6 HP - 120V.
  - INSTALL & CONNECT SPEED SWITCH PROVIDED BY MC.
  - BOOSTER PUMP. 5 HP - 240V.
  - UNIT HEATER. 1/30 HP - 120V.
  - CONDENSING UNIT CU-1. 19.4 FLA - 240V.
  - CONDENSING UNIT CU-2. 19.4 FLA - 240.
  - WELL PUMP STARTER.
  - FURNISH AND INSTALL 2 # 3 & 1 # 6 UF CABLE DIRECT BURIED 1300 FEET TO WELL PUMP MOTOR AND 2 # 6 UF DIRECT BURIED IN SAME TRENCH FOR LOW WTR STOP.
  - TO TANK LEVEL SWITCH.
  - CONNECT FLOW SWITCH INSTALLED BY MC.
  - CHLORINATOR PUMP. 1/50 HP - 120V.
  - CONNECT PRESSURE SWITCH.
  - JUNCTION BOX FOR LAWN SPRINKLER CONTROLS.
  - SUB 1" PVC OUT BELOW GRADE FOR SPRINKLER CONTROL.
  - JUNCTION BOX FOR TOURISM TV UNIT.
  - TELEPHONE TERMINAL BOARD. 24" X 48" X 3/4" PLYWOOD BOARD ON WALL. SEE SPECS.
  - STUB 1-1/2" PVC OUT UNDERGROUND FOR TELEPHONE.
  - 3/4" TO TOURISM TV JUNCTION BOX.
  - 3/4" TO TELEPHONE TERMINAL BOARD.
  - ELECTRIC HAND DRYER BY EC. 2300 WATTS - 120V.
  - TO OUTLETS AT VENDING MACHINES.
  - RECEPTACLE AT TOURISM TV MONITOR WHERE DIRECTED.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION, AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF SOUTH DAKOTA.

*Jack L. Loveland* DATE 1-22-92  
 JACK L. LOVELAND, PE SD REG. NO. 0861  
 1700 WEST 22ND STREET SIOUX FALLS, SD 57105  
 PHONE: (605) 338-0668

DATE	1-22-92	SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION ROBERTS COUNTY REST AREA BUILDING SOUTH DAKOTA PROJECT #IR 29-9 (47) 213
REVISIONS		
ARCHITECTURE AUTOMATED, INC.		SHEET E-2