

	STATE OF		PROJECT	SHEET	TOTAL SHEETS
	SOUTH DAKOTA	029	9 S-172	1	7
	Plotting	Date: MAY-	21–2008		
I١	NDEX O	F SHEE	TS		
SHEET N	NO. 1	т	ITLE SHEET & I		
SHEET N			LAN NOTES		
SHEET N	NO. 3 thr	⁻ u7 (DRIGINAL PLANS		
\mathbb{N}	1				
/ILMOT 32	E FAS	33 ■	Ň		
DP. 543					
			A		
)=			
		4			
X ∏► `	5 Fork				
		$\sim \sqrt{\blacksquare}$			
		کر			
	3	نىر			
H N					
		5			
	7 X	16			

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 shutoff 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 shutoff 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 studdedsheet 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:

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.

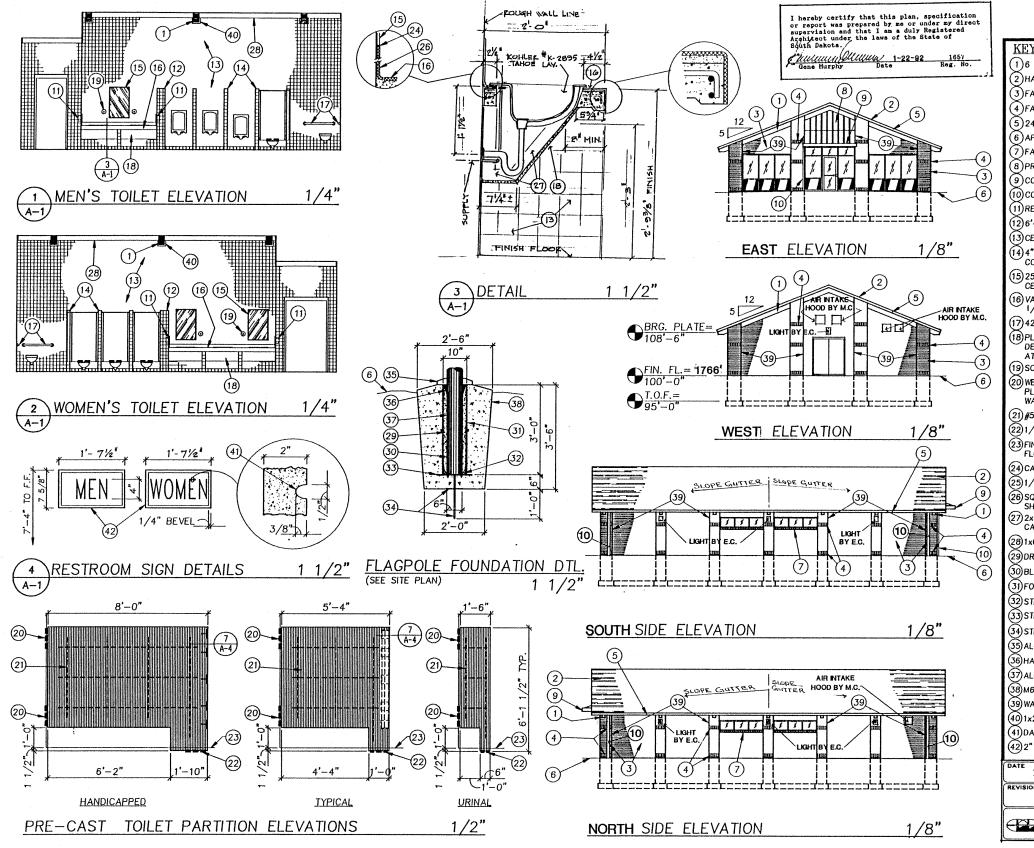
626-7888

STATE OF	PROJECT		SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	029 S-172		2	7
Plotting [

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.

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

ORGINAL PLANS



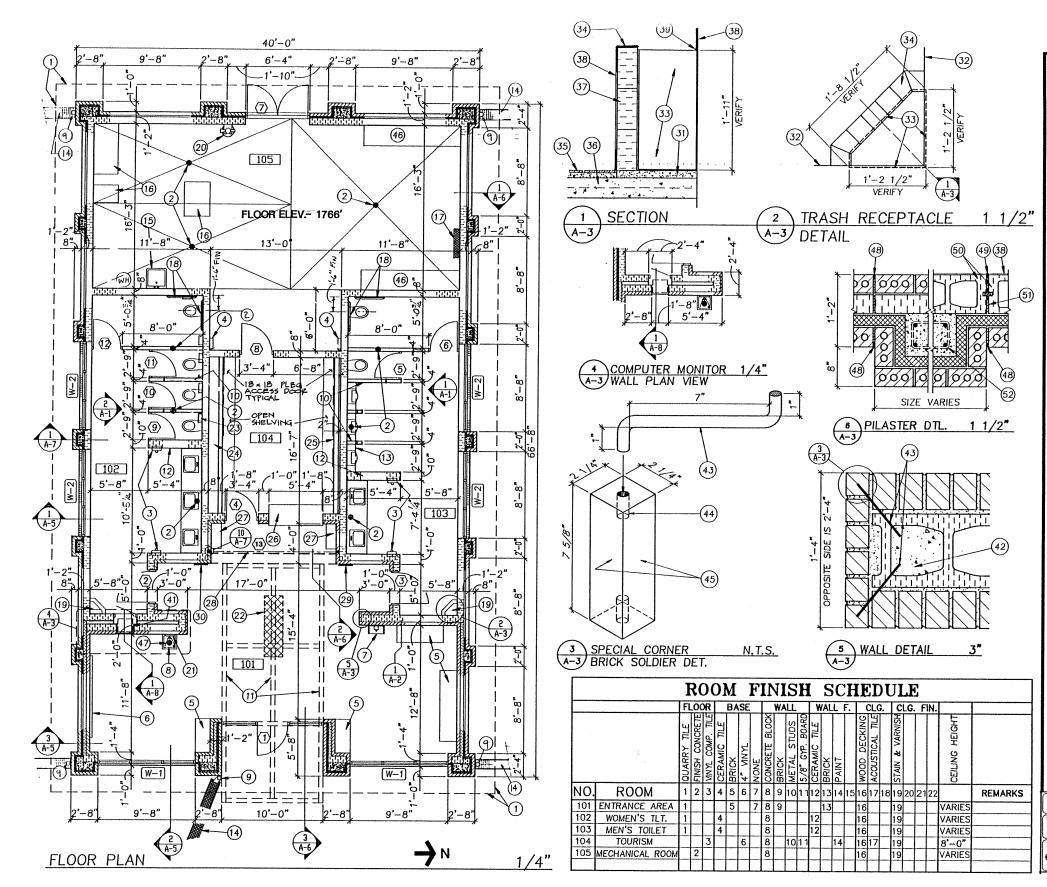
W 21 **#**5 22 1/ 23 FIN FL 24 CA 251/ 26 SQ SH 272x CA 28) 1 xi 29 dr 30 bl <u>3</u>1)F0 32 ST 33 ST 34 ST 35 AL 36 HA 37 AL 38 M6 39 WA 40 1x: 41 DA 42 2*

> DATE REVISIO

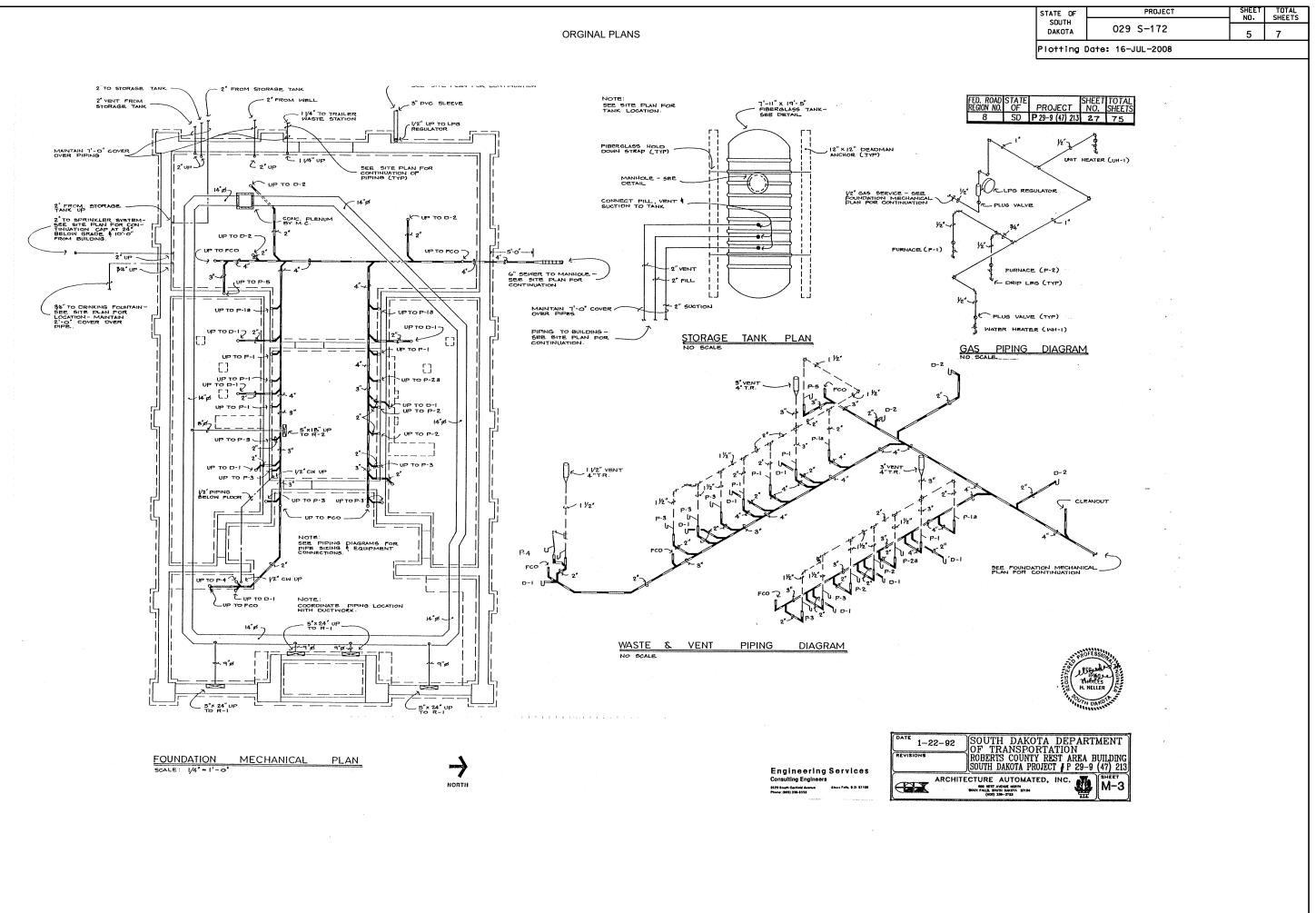
STATE OF	PROJECT	SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA	029 S-172	3	7
Plotting ()ate: 16-JUL-2008		

	FED. ROAD REGION NO. 8	STATE OF SD	PROJECT P 29-9 (47) 213	SHEET NO.	TOTAL SHEETS 75	
YED NOTE						
3/4"x10 1/2		ED WO	OD BEAM.			
IAND SPLIT CE						
ACE BRICK (M						
ACE BRICK SC						
		FACT	ORY APPLIED C	OLOR.		
PPROXIMATE F	•					
ACE BRICK RC	WLOCK SI	LL.				
RE-FINISHED	STANDING	SEAM	METAL ROOFIN	G.		
OPPER GUTTE	R.					
OPPER DOWNS	SPOUT.					
ECESSED HAN	D DRYER	BY E.C.				
'-0" нібн со	NCRETE B	LOCK F	ARTITION.			
ERAMIC TILE,					1	
:OVERED W/ C	ERAMIC TI	LE, THI				
ERAMIC TILE S	SIZE.		IGLASS MIRROR		r 🛔	
/4 " THICK CI	ERAMIC TI	LE W/	ST CONCRETE 1/2" SETTING	W/ BED.		
2" STAINLESS						
LUMBING ENCL ENSITY) COVEI TTACHED W/	TAMPERPR	/4" PA AMINAT ROOF S	RTICLE BOARD ED PLASTIC AN CREWS W/ GRO	(45∦ ND DMMETS		
ELD PLATE CA	AST INTO I (12" x 8	" x 1/-	ON & WELDED 4") EMBEDDED	to Into		
5 RE-BARS T	YPICAL.					
/4" THICK WE	LD PLATES	S.				
INISH FLOOR L LOOR SLAB.	INE, SET I	PARTITI	ON ON ROUGH			
AULKING						
QUARE EDGE			THICK SETTIN			
			STEN TO WALL XPANSION SHIE		-	
K6 S4S CEDAR						
		ED AFT	TER ALIGNING F	POLE.		
			OLE BELOW GR		1	
			ALVANIZED ST		1	
TEEL CENTERIN					1	
TEEL BASE PL						
		ELDED	TO GROUND S	PIKE.		
LUMINUM FLAS						
ARDWARE WED	GES, REM	OVE AF	TER TAMPING	SAND.		
LUMINUM FLAG						
6 CONCRETE.						
ALL CONTROL	JOINT.				I	
x2 S4S CEDAR	TRIM.					
ARK COLOR TO			ATER.			
THICK PRE-	CAST CON	CRETE.				
1-22-92 ons	OF TH	RANSI S COU	KOTA DEP PORTATION NTY REST AR PROJECT # P 2	EA BU	ILDING	
ARCHITI		AUTOM	ATED, INC.			
					4	

ORGINAL PLANS

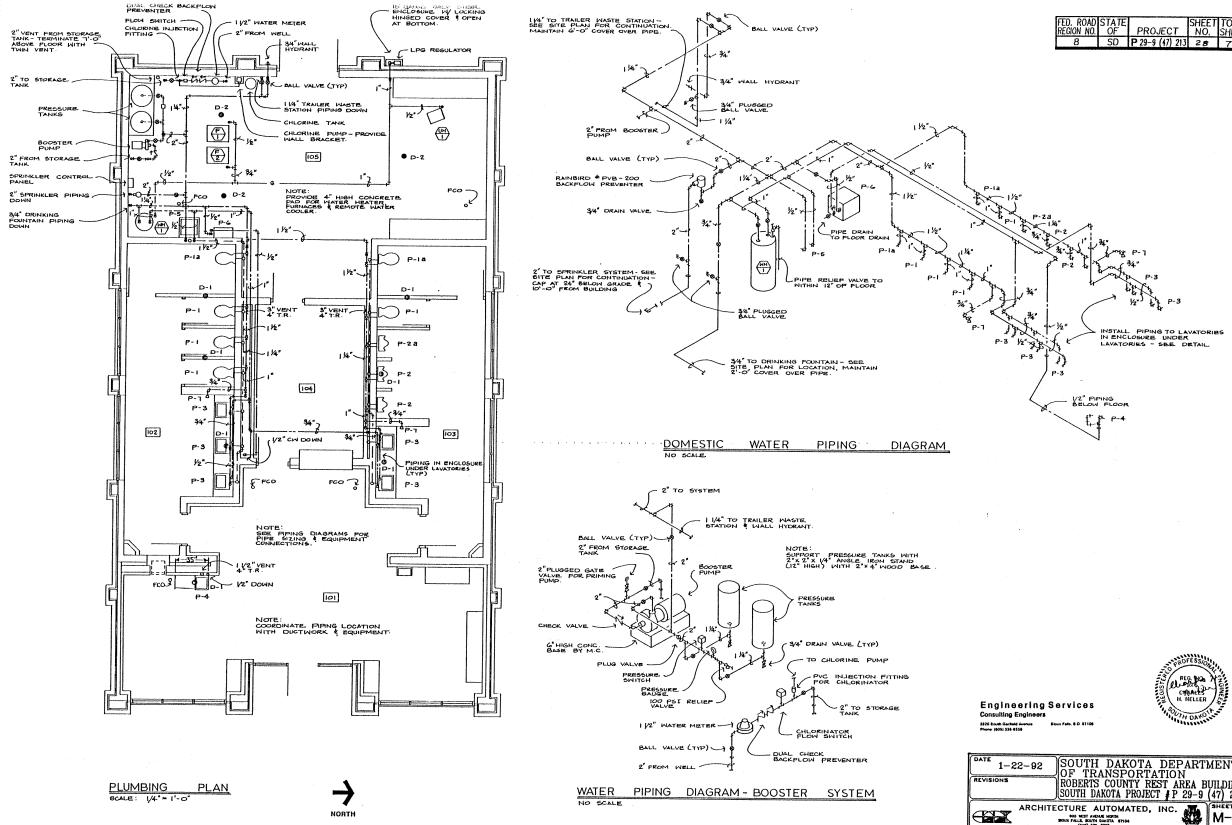


		DDOUGOT	SHEET	TOTAL
STATE (SOUTH	F	PROJECT	NO.	SHEETS
DAKOT		029 S-172	4	7
Plotti	ng Date	3: 16-JUL-2008		
	INCIAT			
REGION		PROJECT NO. SHEETS		
8 KEYED NOTES	SD	P 29-9 (47) 213 18 7.5		
(1)EDGE OF ROOF OVERHA	NG.			
(2) FLOOR DRAIN BY M.C. FLOOR DRAIN IN MECH				
3 RECESSED HAND DRYEF				
(4)SURFACE MOUNTED SO PIPING IN WALL.	P TANK	BY G.C., CONCEAL		
5 INTERIOR CONCRETE BE		-		
(6)BULLETIN BOARD CABIN (7)TELEPHONE CUBICLE AN		TO BOTTOM HONE BY OTHERS. ADA MTG		
BORINKING FOUNTAIN BY	M.C.			
(9)COPPER DOWNSPOUT. (10)4" THICK PRECAST CON	CRETE P	ARTITIONS COVERED		
W/ CERAMIC TILE, THIN (11)LOBBY/CANOPY BEAMS	SET.			
(12)6'-0" HIGH CONCRETE				
(13)TRENCH UNDER URINAL (14)SIDEWALK TRENCH DRA				
(15)мор SINK BY M.C.		1		
(16)2" THICK CONCRETE PA EQUIPMENT. VERIFY SI	D UNDER	MECHANICAL C.		
17 ELECTRICAL PANEL BY				
(18)STAINLESS STEEL GRAB (19)WASTE RECEPTACLE, SE		L PROVISIONS.		
OBRACKET MOUNTED FIR				
(21) "GREAT FACES, GREAT DRINKING FOUNTAIN.	PLACES"	SIGN ABOVE		
22MOBILE PAMPHLET RAC				
(23)SANITARY NAPKIN WAS FROM FINISH FLOOR TO				
(24)PLUMBING CHASE. (25)FURRED WALL.				
26 COUNTER.				
(27)DISPLAY RACK. (28)ELECTRIC OVERHEAD RO	LLING DO	OOR.		
29 MEN'S SIGN, SEE DETAI	4/A-1.			
(30)WOMEN'S SIGN, SEE DE (31)1 1/2" TOPPING.	AIL 4/A-	-1.		
32)EDGE OF BLOCK WALL.				
(33)WASTE RECEPTACLE. (34)BULLNOSE CERAMIC TILI	ON TOP	FDGF		
351/2" THICK QUARRY TH				
(36)4" THICK CONCRETE FL MRE MESH ON 6 MIL V	OR SLAB	3 W/ 6x6-10/10 RRIER.		
(37)4" SOLID CONCRETE BL (38)CERAMIC TILE, THIN SET				
(39)BRING CERAMIC TILE ON		D EDGE OF RECEPT.		
40 NO 40				
(41)COMPUTER MONITOR. (42)FILL VOID W/ CONCRETI				
(43)1/4™ø METAL TIES.				
(44)PROVIDE HOLE IN TOP ((45)FINISH TWO EXPOSED F.		OR METAL TIES.		
46 SHELVING BY D.O.T.				
(47)FLOOR DRAIN UNDER DI 10" FROM WALL.	inking fi	OUNTAIN AND		
(48)CONTROL JOINT MATERI, (49)CONT. VERTICAL SEALAI				
50 SASH BLOCK.	, JOHAT	IT OLIVAMIU IILE.		
5) EXTRUDED JOINT MATER				
(52)4-#5'S VERT. W/ #3 TI "A" CONCRETE.	.5 97 12"	U.U. CAST INTO CLASS		
	TTT D			
1-22-92 SOU OF	TRANS	AKOTA DEPARTMENT SPORTATION		
		UNTY REST AREA BUILDING A PROJECT #P 29-9 (47) 213		
ARCHITECTUR	E AUTO	MATED, INC. SHEET		
BOUX FALL	ST AVDAJE HORTH SOUTH DAKOTA (3) 338-3722			



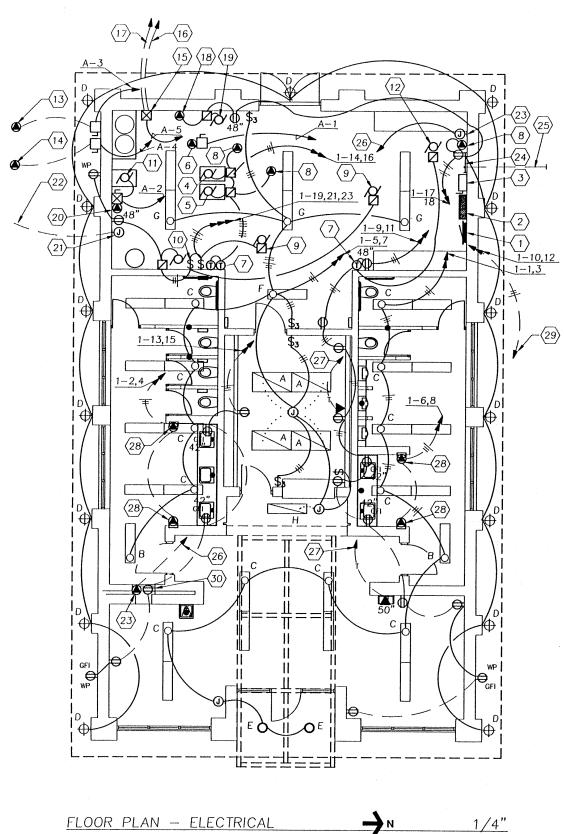
ORGINAL PLANS

4

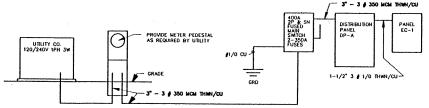


STATE OF		PRI	DJECT		SHEET NO.	TOTAL SHEETS
SOUTH DAKOTA		029 S-1	72		6	7
Plotting	Date	: 16-JUL-2	2008			
	TATE	PROJECT	SHEET NO.	TOTAL		

ARCHITE	CTURE AUTOMATED, INC		47) 213 знеет М-4
REVISIONS	SOUTH DAKOTA DE OF TRANSPORTATIO ROBERTS COUNTY REST SOUTH DAKOTA PROJECT #	DN AREA BI	JILDING



			EGE	IN	ID	-	971	/o+	SUR REC REC	TURES FACE FLI ESSED FI ESSED DI L BRACK	Jor. Fix Jorcen Dwnligh	រោគ ក	: W/B XTURE	ox	ອື່ສ	TR DI: M/ CC P/	ERVICE and EQUIPMEI tansformer, pad mounted sconnect switch (fuse alze agnetic starter (by /c u.o. dub, starter (by /c u.o. anelboard, surface mount	shown) .0.N.) .)
		0 Di 0 M 0 G	UTLETS IPLEX RECEPTAGE ATHERPROOF R ROUND FAULT RE PECIAL EQUIPHEN	ECEPTA ECEPTA NT REC	CLE				- CON - CON HOM CON	CUITR DUIT INS DUIT INS IE RUN (DUCTORS	TALLED TALLED with circ (groun	(Und (Woll cuit r d, ne	erfloor or Co numbe sutral,	r) elling) re)			DUTY METER, AS REQUIRED ELEPHONE TERMINAL BOARD ONTROL (ERMOSTAT (line voltage U.O. rniehed by W/C U.O.N.)	
		0 Fi 0 CE	LEPHONE OUTLE KTURE/DEMCE C BLING JUNCTION ALL JUNCTION B INCTION BOX W	BOX		JL		ø		CHANII IOR AND		TION	I, H₽	SHOW	N 1.	Sir	MITCHES NGLE-POLE SWICH IREE-WAY SWICH JUR-WAY SWICH ANUAL MOTOR SWICH (AS RI	Q'D)
l	_10	3H-	TING	F	1>	< T	Ū	R	E	S	CH	-11	Eſ	C	JLE			
e SE a	ман	JFACTU	RER	CA	TALO	G NU	JMBE	ER	м	OUNTIN	IG m	LAMP			DATA Catalog Ho F4OLW		REMARKS	
A	LITH	ONIA		261	1240	- A	12-	•FS	GR	GRID		2	3.	4				
B	LITH	ONIA		512	2-24	0	ES			RFAC	F E F	2	3	4	F40LW		VANDAL RESISTA	NT
	LITH				5-44					RFAC	-	4	3.	4	F4OLW		VANDAL RESISTA	NT
					70						S	1	70		<u>U70</u>		VANDAL RESISTA	
	LITH				1-70 10-1			<u> </u>		IRFAC ISPEN		12	70		.U70 F40LW		VANDAL RESISTA	NI
	LITH	*********			240			IC		SPEN	-	4	3		F40LW	-		
	11714			SPF	240	- A	12-	ES			F	2	3.		F40LW	-		
	ZIC	TRI	BUTIC		P4		EL)P-					I		
	DIS Volt	TRI Is Er si	24 ZE3	10		P CM	EL has	SE IWN	1	` V			3 DIST	RIBU	MAIN C		ACITY400_4 INECTIONMLO	
	DIS Volt	TRI fs er si equi	120/24 ZE3_ PHENT FED	10 #_35	SO N	P CM CIF		SE IWN BRI FRAME	1 /CU EAKER	VIRE			3 DIST	RIBU	MAIN C			
I F ITEH NO. 1		TRI IS ER SI EQUIN	120/24 ZE3 PHENT FED HEAT CC	10 #_35	50 M AMP 70			SE WN BRI TYPE FA		VIRE 4	/IRE	IAD A 1	3 DISTI PHASE 6.1	RIBU B	MAIN C		NECTIONMLO	
I F ITEP ND. 1 2		TRI er si equin ctric oster		10 #_35	50 M AMP 70 60	PI CM CIF	EL HAS _TH RCUIT LES 2	SE WN BRI FA FA		VIRE 4 8		AD A 1 2 3	J DIST PHASE KV 6.1 3	RIBU 0 3	MAIN C		NECTIONMLO	
I F ITEH NO. 1		TRI ER SI EQUIN CTRIC DSTER ND. UN	120/24 ZE3_ PHENT FED HEAT CC PUMP NIT CU-1	10 #_35	50 M AMP 70	PI CM CIF	EL HAS TH RCUIT LES 2 2	SE WN BRI TYPE FA		VIRE 4	/IRE	AD A 1 D 3	3 DISTI PHASE 6.1	RIBU 0 3	MAIN C		NECTIONMLO	
I F ITEP NO. 1 2 3		TRI ER SI EQUIN CTRIC DSTER ND. UN	<u>120/24</u> ZE <u>3</u> PHENT FED HEAT CC PUMP NIT CU-1 NIT CU-2	10 #_35	0 M ANP 70 60 45		EL HAS TH CUIT LES 2 2 2 2 2	FA FA FA FA FA		VIRE 4 8 10 10 3	/IRE LO Pusse KV 6.0 3.3 2.4	AD A 1 D 3	3 DISTI PHASE 6.1 3., 2.4	RIBU 0 3 4	MAIN C		NECTIONMLO	
I F H H H H H H H H H H H H H H H H H H	DIS VOLT EED ELE BOO CON WEL EC-	TRI ER SI EQUIN CTRIC OSTER ND. UP ND. UP L PUI -1	<u>120/24</u> ZE <u>3</u> PHENT FED HEAT CC PUMP NIT CU-1 NIT CU-2	10 #_35	50 M AMP 70 60 45 45 20 150		EL HAS TH RCUIT LES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FA FA FA FA FA FA FA		VIRE 4 10 10	/IRE L0 PHASE KV 6.0 3.3 2.4 2.4	AD A 1 D 3 1 1 2	3 DIST PHASE 6.1 3 2.4 2.4	RIBU 0 3 4 4 2	MAIN C		NECTIONMLO	
I F I I I I I I I I I I I I I I I I I I	DIS VOLT EED ELE BOO CON CON WEL EC- SPA	TRI ER SI EQUIN CTRIC DSTER ND. UI ND. UI L PUI -1 ARE	<u>120/24</u> ZE <u>3</u> PHENT FED HEAT CC PUMP NIT CU-1 NIT CU-2	10 #_35	50 M AMP 70 60 45 45 20 150 20	CIR CIR S POI	EL HAS TH RCUIT LES 2 2 2 2 2 2 2 2 2 2 2 2 2	SE IWN FARE FA FA FA FA FA FA FA FA		VIRE 4 8 10 10 3	/IRE huse 6.0 3.3 2.4 1.2 14.0 	AD A 1 D 3 1 1 2	3 DIST 6.1 3 2.4 1.2	RIBU 0 3 4 4 2	MAIN C		NECTIONMLO	
I F H H H H H H H H H H H H H H H H H H	DIS VOLT EED ELE BOO CON WEL EC-	TRI ER SI EQUIN CTRIC OSTER ND. UN ND. UN L PUI -1 ARE ARE	120/24 ZE3_ PHENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP	HO #_35	60 M ANP 70 60 45 45 20 150 20 20		EL HAS _TH RCUIT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FA FA FA FA FA FA FA FA FA FA FA		VIRE 4 8 10 10 3 1/0 -	/IRE Prost KV 6.0 3.3 2.4 2.4 1.2 14.0 	AD A 1 D 3 1 5	3 DISTI 74456 KV 6.1 3 2.4 1.1 1.1 1.1 1.4.	RIBU 9 0 3 4 4 2 6			INECTION <u>MLO</u> REMARKS	
I F ITEL- ND. 1 2 3 4 5 6 7 8	DIS VOLT EED ELE BOO CON CON WEL EC- SPA	TRI ER SI EQUIN CTRIC OSTER ND. UN ND. UN L PUI -1 ARE ARE	120/24 ZE3_ PHENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP	HO #_35	60 M ANP 70 60 45 45 20 150 20 20		EL HAS _TH RCUIT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	FA FA FA FA FA FA FA FA FA FA FA		VIRE 4 8 10 10 3 1/0 -	/IRE Prost KV 6.0 3.3 2.4 2.4 1.2 14.0 	AD A 1 D 3 1 5	3 DISTI 74456 KV 6.1 3 2.4 1.1 1.1 1.1 1.4.	RIBU 9 0 3 4 4 2 6			INECTION <u>MLO</u> REMARKS	
I F ITEE IND. 1 2 3 4 5 6 7 8 8 CCT ND	DIS VOLI ELEE BOC CON WEL SPA SPA COLI LDAI	TRI ER SI EQUIT C.C.T.R.C. OSTER ND. UP ND. UP I I L PUI -1 ARE I RE I V.C. HU D D	120/24 ZE3_ PHENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP	0 <u>#</u> _35 DIL 0/2 IRFA	60 M ANP 70 60 45 45 20 150 20 20	PI CIR S POI		FA FA FA FA FA FA FA FA FA FA FA FA FA F		VIRE 4 8 10 10 3 1/0 -	/IRE PHASE 50 6.C 3.3 2.4 2.4 1.2 14.6 	A I D J J J J J J J J J J J J J J J	3 DISTI Prince KV 6.1 3., 2.4 1.1 14, 	RIBU 0 3 4 4 2 6 6 M/			INECTION <u>MLQ.</u> REMARKS	
I F ITEL ND. 1 2 3 4 5 6 7 8 CCTT ND 1 1	DIS VOLT EED BOC CON WEL EC-SPA SPA CC-1 LDAI	TRI IS ER SI ECTRIC DSTER ND. UP ND. UP L PUI -1 RRE RE RE MD F HTS	120/24 ZE3_ PHENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP	0 # 35 DIL 0/2 RFA 90	50 M ANP 70 60 45 45 20 150 20 20 20 20 40 CE TTS 20	PI CIF S POI	ELL HASS TH COUIT LES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE WN FA FA FA FA FA FA FA FA FA FA FA FA FA	1 /CU EAKEF	VIRE 4 8 10 10 3 1/0 	/IRE LC Private KY 6.(C 3.3 2.4 1.2 14.6 	A 1 A 1 D 3 I 1 E 1 E 1 E 1 E 1 E 1 E 1 E 1 E	3 DISTI Fridse KV 6.1 3 2.4 1.2 1.4 1.4 1.4 1.4 1.4	RIBU 0 3 4 4 4 2 6 6	MAIN C TION PRASE C KV C CITY LIN CONNE VATTS 2300		INECTION	S CC1 ND S
I F ITEL- ND I Z Z CCT ND I 3	DIS VOLIS ELEE BOC CON WEL EC-SPA SPA C-1 LDAI	TRI IS ER SI EQUII CCTRIC DSTER ND. UP I ND. UP I ND. UP I ND. UP I ND. UP I ND. UP I NRE KRE I ND HTS HTS	120/24 ZE3_ PHENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP	0 #_35 DIL 0/2 IRF A 90 10	50 M ANP 70 60 45 45 20 150 20 20 20 40 CE 11S 00 00	PI CIF S POI 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E L HAS <u>TH</u> COUT LES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE IWN FA FA FA FA FA FA FA FA FA FA FA 220 20	1 /CU EAKEF	VIRE 4 8 10 10 10 3 10 0 	/IRE LD PHUSE 50 6.(3.3 2.4 2.4 1.2 14.(нар А 1 Э Э Б Б П Н Амг З С З С З С	3 DISTI MASE KV 6.1 3 2.4 1.2 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	RIBU 0 3 4 4 2 6 10 10	MAIN C TIDN PRASE C NY CITY IN CONNE VATTS 2300 2300		INECTIONMLQ. REMARKS 	S S CCT ND 2 4
I I	DIS VOLIS ELEE DO CON WEL EC-SPA SPA C-1 LIGAI LIGAI LIGAI	TRI ER SI EQUIU CCTRIC COSTER ND. UI -1 -1 RRE RRE VD. HTS HTS	120/24 ZE3_ PHENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP	10 <u># 35</u> DIL 0/22 IRF A 90 10 90	60 M ANP 70 60 45 45 20 150 20 20 20 20 20 00 00 00 00	PI CIF S POI 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ELL HAS _TH RCUIT LES 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE WN FA FA FA FA FA FA FA FA FA FA 220 20 20 20	1 /CU EAKEF EAKEF EB QO QO QO	VIRE 4 8 10 10 10 3 10 0 	/IRE LID PHUSE 50 6.C 3.3 2.4 1.2 14.0 	нар А 1 О 3 Н Б Б Г Н Амр З (С З (С З (С	3 DISTI DISTI DISTI DISTI DIST DIST 2.4 2.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	RIBU 0 3 4 4 4 2 6 6 10 10 10	MAIN C TIDN Prate c NY C CITY IN CONNE VATTS 2300 2300 2300		INECTION <u>MLO</u> REMARKS <u>150</u> ΔΝ ΔΑΔ HAND DRYERS HAND DRYERS HAND DRYERS	S CCTT NU 2 4 6
I F ITEL- ND I Z Z CCT ND I 3	DIS VOLI ELE BOC CON WEL SPA SPA CC-1 LDA	TRI ER SI EQUILI CCTRIC COSTER ND. UI CCTRIC COSTER ND. UI -1 ARE RE RE ND. U ND. UI HTS HTS	120/24 ZE3 HEAT CC PUMP VIT CU-1 VIT CU-2 MP	10 # 35 DIL DIL 0/22 IRFA 90 10 90 12	50 M ANP 70 60 45 20 150 20 20 20 40 CE TTS 00 00 00 00 00	PI CIF S POI 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HAS TH CUIT CUIT ECUIT 2 2 2 2 2 2 2 2 2 2 2 2 2	FA FA FA FA FA FA FA FA FA FA FA FA FA F	1 /CU EAKEF CB QO QO QO QO	VIRE 4 4 10 10 3 1/0 VIRE -	/IRE L0 FWsE 50 6.C 3.3 2.4 2.4 1.2 14.0 3 1/0 CB QO QO QO QO QO	MAD A 1 D 3 H 5 H 5 H 4 2 5 H 4 3 () () () () () () ())) ())) ()))))))))))))	3 DISTI PHASE K 2.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	APA 4 4 4 2 6 10 10 10 10	MAIN C TION PRASE C NY CITY LIN CONNE 2300 2300 2300 2300		INECTION	S CC1 ND 2 4 6 8
I I	DIS VOLT ELE BOC COP WEL EC-1 LIG SPA SPA C-1 LIG LIG REC	TRI ER SI Eavin CTRIC OSTER NO. UI NO. UI NO	120/24 ZE3 HEAT CC PUMP VIT CU-1 VIT CU-2 MP	10 #_35 DIL 0/22 0/22 0/22 0/22 10 90 10 90 12 12	50 M ANP 70 60 45 20 150 20 20 20 40 20 20 40 20 20 00 00 00 00 00 00	PI CIR S POI 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ELL HASS _TH RCUIT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE WN FA FA FA FA FA FA FA FA FA FA	1 /CU EAKEF CB QO QO QO QO	VIRE 4 4 10 10 3 1/0 VIRE L1 L2 L1 L2 L1 L2 L1 L2 L1 L2 L1	/IRE L0 Puster KV 6.C 3.2 2.4 2.4 1.2 1.4 - - - - - - - - - - - - -	MAD A 1 D 3 L L D 5 L L D 1 S 1 L L D 1 S 1 L L D 1 S 1 L L D 1 S 1 L L L D 1 S 1 L L D 1 S 1 L L D 1 S 1 L D 1 S 1 L D 1 S 1 L D 1 S 1 L D 1 S 1 S 1 L D 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	3 DISTI FINSE KV 6.1 3 2 2 1.2 1.2 1.4	RIBU P 0 3 4 4 4 2 6 10 10 10 10 10 10 10 10 10 10	MAIN C TION Prints c NY C NY C NY C NY C NY C NY C NY C NY C		INECTION REMARKS 	S CCT ND 2 4 6 8 10
I I	Cor Cor Cor Cor VOL 1 ELEE BOC COR WEL EC- SPA SPA Cor LIG LIG LIG LIG REC REC	TRI IS ER SI ECUIL COSTER NO. UF ND. UF I U NRE I NRE I NRE I HTS HTS HTS HTS LTS HTS LTS HTS LTS HTS LTS HTS LTS LTS LTS LTS LTS LTS LTS LTS LTS L	120/24 ZE3 HEAT CC PUMP NIT CU-1 NIT CU-2 MP NIT S12 UNTINGSL CLES CLES	10 10 10 10 10 10 10 12 10 10 12 10	50 M ANP 70 60 45 20 150 20 20 40 CE 115 00 00 00 00 00 00 00 00 00	PH CIR S POI 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ELL HASS _TH RCUIT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE WN FA FA FA FA FA FA FA FA FA FA FA FA 20 20 20 20 20 20 20 20 20	1 /CU EAKEF EAKEF E B QO QO QO QO QO QO	VIRE 4 8 10 10 3 1/0 VIRE 1 12 11 12 12 12 12 12 12 12	/IRE полного полн	AMP 300 300 300 300 300 300 300 30	3 DISTI Masse K 6.1 3 2 1	RIBU 0 3 4 4 2 6 10 10 10 10 10 12 12	MAIN C TION Privite C CITY CITY 2300 2300 2300 1000		INECTIONMLQ. REMARKS 150AMPERE DNMLQ AMPERE HAND DRYERS HAND DRYERS HAND DRYERS HAND DRYERS VENDING RECEPT VENDING RECEPT	S CC1 ND 2 4 6 8 10 12
I I	ELEE BOC CON WEL EC- SPA SPA C-1 LIG LIG LIG LIG REC REC	TRI ER SI Eavin CTRIC OSTER NO. UI NO. UI NO	120/24 ZE3 MENT FED HEAT CC PUMP VIT CU-1 VIT CU-2 MP 	10 #_35 DIL 0/22 0/22 0/22 0/22 10 90 10 90 12 12	50 M ANP 70 60 45 20 150 20 20 40 CE 11S 00 00 00 00 00 00 00 00 00 0	- PI CIF S PO 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ELL HASS _TH RCUIT 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E WN FA FA FA FA FA FA FA FA PS 20 20 20 20 20 20 20 20 20 20	1 /CU EAKEF CB QO QO QO QO	VIRE 4 8 10 10 3 10 VIRE 3 4 10 10 3 	/IRE L0 Proster KV 6.C 3.2 2.4 2.4 1.2 1.4 - - - - - - - - - - - - -	MAD A 1 D 3 L L D 5 L L D 1 S 1 L L D 1 S 1 L L D 1 S 1 L L D 1 S 1 L L L D 1 S 1 L L D 1 S 1 L L D 1 S 1 L D 1 S 1 L D 1 S 1 L D 1 S 1 L D 1 S 1 S 1 L D 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S	3 DISTINUES 6.1. 3 2 1.2. 1.4. 1.2. 1.4. WN. WN. -	RIBU 0 3 4 4 2 6 10 10 10 10 10 12 12 12 12	MAIN CC TION Private C CITY VATTS 23000 23000 23000 10000 16000		INECTIONMLQ. REHARKS 	S CCT ND 2 4 6 8 10
I I	ELEE BOC CON WELL EC- SPA SPA CON LIG LIG LIG LIG REC REC REC	TRI ER SI ECTRIC SOSTER ND. UI 1 ND. UI 1 NRE ND. UI 1 NRE ND. UI 1 NRE ND. UI 1 NRE ND. UI 1 NRE ND. UI 1 NRE ND. UI 1 NRE ND. UI 1 NRE SCEPTA CEPTA CEPTA	120/24 ZE3 HEAT CC PUMP VIT CU-1 VIT CU-2 MP 	10 # 35 DIL DIL 0/22 IRFA 90 10 90 12 12 10 10	60 M ANP 70 60 45 20 150 20 20 20 20 20 20 20 20 20 20 20 00 00	- PI -	E L HAS TH 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	SE WN FA FA FA FA FA FA FA FA FA 20 20 20 20 20 20 20 20 20 20	1 /CU EAKEF EAKEF CB QO QO QO QO QO QO	VIRE 4 8 10 10 3 1/0 VIRE 1 12 11 12 12 12 12 12 12 12	/IRE L00 Fruste 6.0 3.3 2.4 1.2 1.4.0 3 1/0 CB QO QO QO QO QO QO QO QO QO QO	MAD A 1 D 3 A 1 D 5 A 1 D 1 S 1 A 1 D 1 S 1 A 1 D 1 S 1 A 1 A 1 D 1 S 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	3 DIST 0 0 0 0 0 0 0 0 0 0 0 0 0	RIBU 0 3 4 4 2 6 10 10 10 10 10 12 12	MAIN C TION Privite C CITY CITY 2300 2300 2300 1000		INECTIONMLQ. REMARKS 	S CCT NU 2 4 6 8 10 12 14
I I F I	UIS EED EED CON WEL EC-1 LIG LIG LIG REC REC REC REC	TRI ER SI ER SI CTRIC DSTER ND, UI L PUI -1 RRE NRE NRE HTS HTS HTS HTS CEPTA ECEPTA CEPTA	120/24 ZE3 HEAT CC PUMP VIT CU-1 VIT CU-2 MP VIT CU-2 NIT CU-2 CL-2 CL-2 CLES CLES CLES CLES CLES	0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 0/22 10 10 10 10 10 10 10 10 10 10	80 M 70 60 40 20 150 20 200 20 150 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20 00 20	PI CLF S PO CLF S PO CLF S PO CLF CLF CLF CLF CLF CLF CLF CLF CLF CLF	E L HAS TH 22 22 22 22 22 22 22 22 22 22 22 22 22	SE WN FA FA FA FA FA FA FA FA FA FA	1 /CU EAKEF EAKEF CB QO QO QO QO QO QO QO QO QO QO QO	VIRE 4 8 10 10 3 1/0 - - - - - - - - - - - - -	/IRE L00 Fruste 6.0 3.3 2.4 1.2 1.4 1.2 1.4 0 0 0 0 0 0 0 0 0 0 0 0 0	MAD A 1 D 3 A 1 A 1 D 3 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	3 DIST PROSE 0 0 0 0 0 0 0 0 0 0 0 0 0	RIBU 0 3 4 4 2 6 10 10 10 10 10 10 12 12 12 12 12	MAIN C 1100 1100 MAIN C 100 100 1000 1000 1000 1000	CTII F F F F F F F F F	INECTIONMLQ. REHARKS 	S CCT ND 2 4 6 8 10 12 14 14
I I F IIEH NO. 1 2 3 4 5 6 7 8 CCT 1 3 5 7 9 11 13 15 17	UIS EED EED CON WEL EC-1 LIG LIG LIG REC REC REC REC	TRI ER SI EQUIL CTRIC OSTER ND. UI L PUI -1 NRE NRE VI MU D MTS HTS HTS CEPTA CEPTA CEPTA CEPTA CEPTA CEPTA CEPTA CEPTA CEPTA	120/24 ZE3 HEAT CC PUMP VIT CU-1 VIT CU-2 MP VIT CU-2 NIT CU-2 CL-2 CL-2 CLES CLES CLES CLES CLES	0 # 35 DIL DIL 0/22 0/72 0/72 0/72 10 10 10 10 80	50 M ANP 700 60 45 20 20 20 20 40 20 40 20 20 40 20 20 00 00 00 00 00 00 00 0	PI CIF S PO 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	HAS _TH RCUIT LES 2 2 2 2 2 2 2 2 2 2 2 2 2	SE WN BRI FA FA FA FA FA FA FA FA FA FA	1 /CU EAKEF EAKEF CB QO QO QO QO QO QO QO QO QO QO QO QO	VIRE 4 8 10 10 3 1/0 VIRE 3 4 10 10 10 10 10 10 10 10 10 10	/IRE Hust 6.C 3.2 2.4 1.2 14.6 1.2 14.6 0 0 0 0 0 0 0 0 0 0 0 0 0	AMP 30 31 33 4 5 5 14 30 30 20 20 20 20 20 20 20 20 20 2	3 DISTIC	RIBU 0 3 4 4 2 6 10 10 10 10 10 12 12 12 12 12	MAIN C 110N 110N MAIN C 10N MAIN C 10N CONNE VAT1S 23000 23000 23000 10000 10000 10000	CTII L F F F F E S	INECTION	S CCTT ND 2 4 6 8 10 12 14 16 18



le en ale el el angla ala ala ala ala

ELECTRICAL SERVICE AND FEEDER DIAGRAM

			PROJECT	SHEET	TOTAL
		STATE OF SOUTH		ND.	SHEETS
		DAKOTA	029 S-172	7	7
		Plotting	Date: 16-JUL-2008		
			TATE SHEET TOTAL OF PROJECT NO. SHEETS SD IR 29-9 (47) 213 30 75		
KF	YED NOT	TES			
1.	ELECTRICAL	CABINET EC-1			
2.	DISTRIBUTIO	N PANEL DP-A	λ.		
З.	MAIN SWITCH	H AND METERIN	IG EQUIPMENT.		
4.	FURNACE F-	-1. 3/4 HP -	120V.		
5.	FURNACE F-	-2. 1/2 HP -	120V.		
6.	ELECTRIC DU	UCT HEATER. 1	2.0 KW - 240V.		
7.	INSTALL ANI	D CONNECT TH	ERMOSTAT PROVIDED BY MC.		
8.	CONNECT 12	20V TO DAMPER	R MOTOR.		
9.	EXHAUST FA	AN EF-1. 1/6 I	HP - 120V.		
10.			SWITCH PROVIDED BY MC.		
11.		IMP. 5 HP - 2			
12.	UNIT HEATER	R. 1/30 HP -	120V.		
13.	CONDENSING	UNIT CU-1. 1	9.4 FLA - 240V.		
14.	CONDENSING	UNIT CU-2. 1	9.4 FLA - 240.		
15.	WELL PUMP	STARTER.			
16.	FURNISH ANI BURIED 1300 DIRECT BURIE	D INSTALL 2 # FEET TO WELL ED IN SAME TR	3 & 1 # 6 UF CABLE DIRECT . PUMP MOTOR AND 2 # 6 uf ENCH FOR LOW WTR STOP.		
17.	TO TANK LE	VEL SWITCH.			
18.	CONNECT FL	OW SWITCH INS	TALLED BY MC.		
19.	CHLORINATO	R PUMP. 1/50	HP - 120V.		
20.		RESSURE SWITC	4		
21.	JUNCTION BO	DX FOR LAWN :	SPRINKLER CONTROLS.		
22.	SUB 1" PVC	OUT BELOW G	RADE FOR SPRINKLER CONTROL.		
23.	JUNCTION BO	OX FOR TOURIS	M TV UNIT.		
24.	BOARD ON W	ALL. SEE SPEC			
25.	STUB 1-1/2	" PVC OUT UN	DERGROUND FOR TELEPHONE.		
26.	3/4" TO TO	URISM TV JUNC	TION BOX.		
27.	3/4" TO TEL	EPHONE TERM	NAL BOARD.		
28.	ELECTRIC HA	ND DRYER BY	EC. 2300 WATTS - 120V.		
29.	TO OUTLETS	AT VENDING M	IACHINES.		
30.	RECEPTACLE	AT TOURISM T	W MONITOR WHERE DIRECTED.		
	REPORT WAS PERSONAL SU ISTERED PRO	PREPARED BY JPERVISION, AN	IS PLAN, SPECIFICATION OR ME OR UNDER MY DIRECT ID THAT I AM A DULY REG- INEER UNDER THE LAWS OF DTA.		
	JACK L. LOVE	2ND STREET	DATE <u>1-22-92</u> SD REG. NO. 0861 SIOUX FALLS, SD 57105		
DATE IEVISI	1-22-92		DAKOTA DEPARTMENT NSPORTATION COUNTY REST AREA BUILDING		
		SOUTH DAK	OTA PROJECT #IR 29-9 (47) 213		
Ø	ARCHIT	TECTURE AU 1000 WEST AVENUE SIGUX FALLS, SOUTH DAN (405) 334-37			