

EXISTING STRUCTURE ELEVATIONS		ABANDONED WASTEWATER TREATMENT FACILITIES				
UNIT NO	DESCRIPTION	CITY DATUM		USGS DATUM (+1309.18)		NOTES-ELEVATIONS BASED ON CITY DATUM
		TOP OF WALL	BOT. OF SLAB	TOP OF WALL	BOT. OF SLAB	
1	GAS SPHERE					
2	ADMINISTRATION & LABORATORY BUILDING					
3	MAINTENANCE BUILDING					
4	ELECTRICAL & PAINT BUILDINGS					
5	FLOW EQUALIZATION TANK	42.33	21.75	1351.51	1330.93	21.75 IS AVERAGE
6	FUEL STORAGE TANK					
7	BLOWER BUILDING	32.25	18	1341.43	1327.18	
8	SCREENINGS BUILDING	21.02	14.12	1330.2	1323.3	
9	SPLITTER STRUCTURE					
9	INDUSTRIAL SLUDGE PUMP STATION	19.38	2.04	1328.56	1311.22	
10	INDUSTRIAL PRIMARY CLARIFIERS	19.38	7.71	1328.56	1316.89	FLOOR ELEV. 8.13
11	FINAL CLARIFIER NO 12	15.25	-5.37	1324.43	1303.81	
12	FINAL CLARIFIER NO 11	15.25	2.55	1324.43	1311.73	
13	RAG PUMP STATION	11.5	1.5	1320.68	1310.68	11.5 IS FINISH GRADE
13a	DISTRIBUTION CHAMBER	13	1.25	1322.18	1310.43	13 IS GRADE-TOP OF WALL IS 18.5
14	SECONDARY CLARIFIER NO 4	18.38	2.88	1327.56	1312.06	
15	SECONDARY CLARIFIER NO 3	18.38	2.88	1327.56	1312.06	
15a	INTERMEDIATE SLUDGE PUMP STATION	6.78		1315.96		6.78 IS FLOOR ELEV.
16	INDUSTRIAL METERING BUILDING	17.75	3	1326.93	1312.18	3 IS (+) OR (-)
17	CENTRIFUGE BUILDING	20.25	5.75	1329.43	1314.93	
18	PRIMARY CLARIFIER NO 2	17.57	2.1	1326.75	1311.28	
19	PRIMARY CLARIFIER NO 1	17.57	2.1	1326.75	1311.28	
20	PRIMARY CLARIFIER NO 10	19.68	1.25	1328.86	1310.44	18.68 IS TOP OF WALL (-2.57) IS BOTTOM OF BASE SLAB
21	PRIMARY CLARIFIER NO 9	19.68	1.25	1328.86	1310.44	18.68 IS TOP OF WALL (-2.57) IS BOTTOM OF BASE SLAB
22	THICKENER NO 1	23	4.5	1332.18	1313.68	22.65 IS TOP OF WALL-10.5 IS BOTTOM OF WALL FOOTING
23	THICKENER NO 2	23	4.5	1332.18	1313.68	22.65 IS TOP OF WALL-1.67 IS BOTTOM OF CENTER COLUMN
24	DIGESTER HEATING BUILDING	22.5	9	1331.68	1318.18	21.5 IS FINISH GRADE
25	DIGESTER NO 4	30.5	0	1339.68		32.5 IS TOP OF MIXER WALL-FLOOR ELEV. IS 1.75
26	DIGESTER NO 3	30.5	0	1339.68		31 IS TOP OF MIXER WALL-GRADE IS 28.8
27	DIGESTER CONTROL BUILDING	28	9	1337.18	1318.18	28 IS GRADE & 29 IS TOP OF FLOOR
27a	RAW SLUDGE PUMPING STATION		1.75		1310.93	1.75 IS (+) OR (-) APPROX. BASE FLOOR 3.25 ELEV FLOOR 7.50
28	DIGESTER NO 1	30.5	0	1339.68		31 IS TOP OF MIXER WALL-28.8 IS GRADE
29	DIGESTER NO 2	30.5	0	1339.68		31.5 TOP OF MIXER WALL
30	AERATION MIXING BUILDING	28	12.75	1337.18	1321.93	28 IS GRADE
31	AERATION BASINS	18.38	1.84	1327.56	1311.02	BOTH ARE (+) OR (-)
32	FINAL CLARIFIER NO 5	16.85	1.87	1326.03	1311.05	15.83 TOP WALL-13 FIN GRADE-2.46 SLAB BOTTOM-CTR. SLUDGE PIT .87
33	FINAL CLARIFIER NO 6	16.85	1.87	1326.03	1311.05	15.83 TOP WALL-13 FIN GRADE-2.46 SLAB BOTTOM-CTR. SLUDGE PIT .87
34	CHLORINE STORAGE BUILDING	11	5.5	1320.18	1314.68	11 IS FINISH GRADE
35	PRIMARY TRICKLING FILTER	11.25	3.25	1320.43	1312.43	10.75 FINISH GRADE-TOP OF WALLS IS 11.25
36	PRIMARY TRICKLING FILTER	11.25	3.25	1320.43	1312.43	10.75 FINISH GRADE-TOP OF WALLS IS 11.25
37	PRIMARY TRICKLING FILTER	11.25	3.25	1320.43	1312.43	10.75 FINISH GRADE-TOP OF WALLS IS 11.25
38	PRIMARY TRICKLING FILTER	11.25	3.25	1320.43	1312.43	10.75 FINISH GRADE-TOP OF WALLS IS 11.25
39	PRIMARY FILTER EFFLUENT PUMP STATION	8.75	-4.75	1317.93	1304.43	8.75 IS FINISH GRADE
40	PRIMARY FILTER EFFLUENT CLARIFIER	3	-12.5	1312.18	1296.68	3 IS TOP OF WALL
41	CHLORINE CONTACT BASIN	10.5	0	1319.68		11.75 IS TOP OF BASIN
41a	OUTFALL CASCADE					
42	MORRELL PUMP STATION NO 4	6.5	-14.75	1315.68	1294.43	6.5 IS GRADE-FL. ELEV. 8.0-ROAD ELEV. 4.0
42a	MORRELL GRIT CHAMBER	8	-2.5	1317.18	1305.68	
43	TUNNEL SYSTEM					CEILING IS 13 TO 18 & BOTTOM IS 6 TO 10 FEET
44	SECONDARY FILTER EFFLUENT PUMP STATION	ABOVE GRADE	-12		1297.18	
45	SECONDARY FILTERS	15.25	5	1324.43	1314.18	THESE ARE GONE, MEDIA IS +6, BOTTOM IS -1.5
46	INDUSTRIAL FLOW CONTROL BLDG	17.75	5.25	1326.93	1314.43	17.75 IS GRADE, 18.0 IS RIM, 5.25 IS FLOOR
47	NORTH PLANT CONTROL BUILDING	52.82	42.32	1362	1351.5	
48	NORTH PLANT STORAGE GARAGE					
49	NORTH PLANT INCINERATOR/SCREEN BLDG					
50	NORTH PLANT GRIT UNIT	75	70	1384.18	1379.18	
51	NORTH PLANT PRIMARY CLARIFIER	61	49.5	1370.17	1358.67	
52	NORTH PLANT TRICKLING FILTERS					
53	NORTH PLANT CHLORINE CONTACT BASIN					
54	NORTH PLANT FINAL CLARIFIER	17.5	29.8	1326.67	1339	
55	NORTH PLANT CHLORINE CONTROL BLDG	25.8	15.32	1335	1320.5	
56	NORTH PLANT FILTER DOSING TANK	48.8	42.8	1358	1352	
57	NORTH PLANT AMALGAMIC DIGESTER	76.32	50.8	1365.5	1360	

NOTES:
 A. ELEVATIONS ARE FROM DESIGN DRAWINGS FOR ABANDONED PLANT STRUCTURES AND MAY NOT NECESSARILY REPRESENT AS CONSTRUCTED CONDITIONS OR MAY NOT INCLUDE MODIFICATIONS MADE AT A LATER DATE. DRAWINGS D-1 THRU D-85 ARE INCLUDED FOR REFERENCE PURPOSES.
 B. UNITS SCHEDULED FOR DEMOLITION ARE CROSSED OUT IN ABOVE TABLE.

NOTES:
 A. REMOVE ALL CONCRETE AND PIPING UNDER AND WITHIN 10 FEET OF FUTURE FLOW EQUALIZATION BASIN AND GRIT BASIN, EXCEPT FOR THE BASE SLAB OF UNIT NO. 40.
 B. REMOVE ALL STRUCTURES AND PIPING (UNLESS SCHEDULED TO REMAIN IN SERVICE) WITHIN THE 10 FOOT PIPING CORRIDOR (5 FEET ON EITHER SIDE OF PIPELINE) FOR FUTURE PIPING, SEE SPECIFICATIONS FOR REMOVAL REQUIREMENTS. PLUG ABANDONED LINES WHICH ARE EXPOSED WHEN CLEARING PIPING CORRIDOR.
 C. CONCRETE BASE SLABS FOR UNIT NOS. 36, 37 AND 38 CAN REMAIN IN PLACE. REMOVE REMAINING DRAIN TILE IN STRUCTURES.

Issue No.	Description	Date	Drawn	Chk'd.	Resp. Engr.	Proj. Mgr.

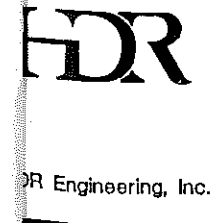
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 C. DOSTAL
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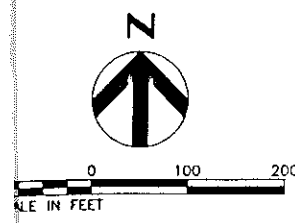
Site Demolition
 Flow Equalization Basin

Sioux Falls, South Dakota

Demolition Plan
 For
 Existing Structures/Piping

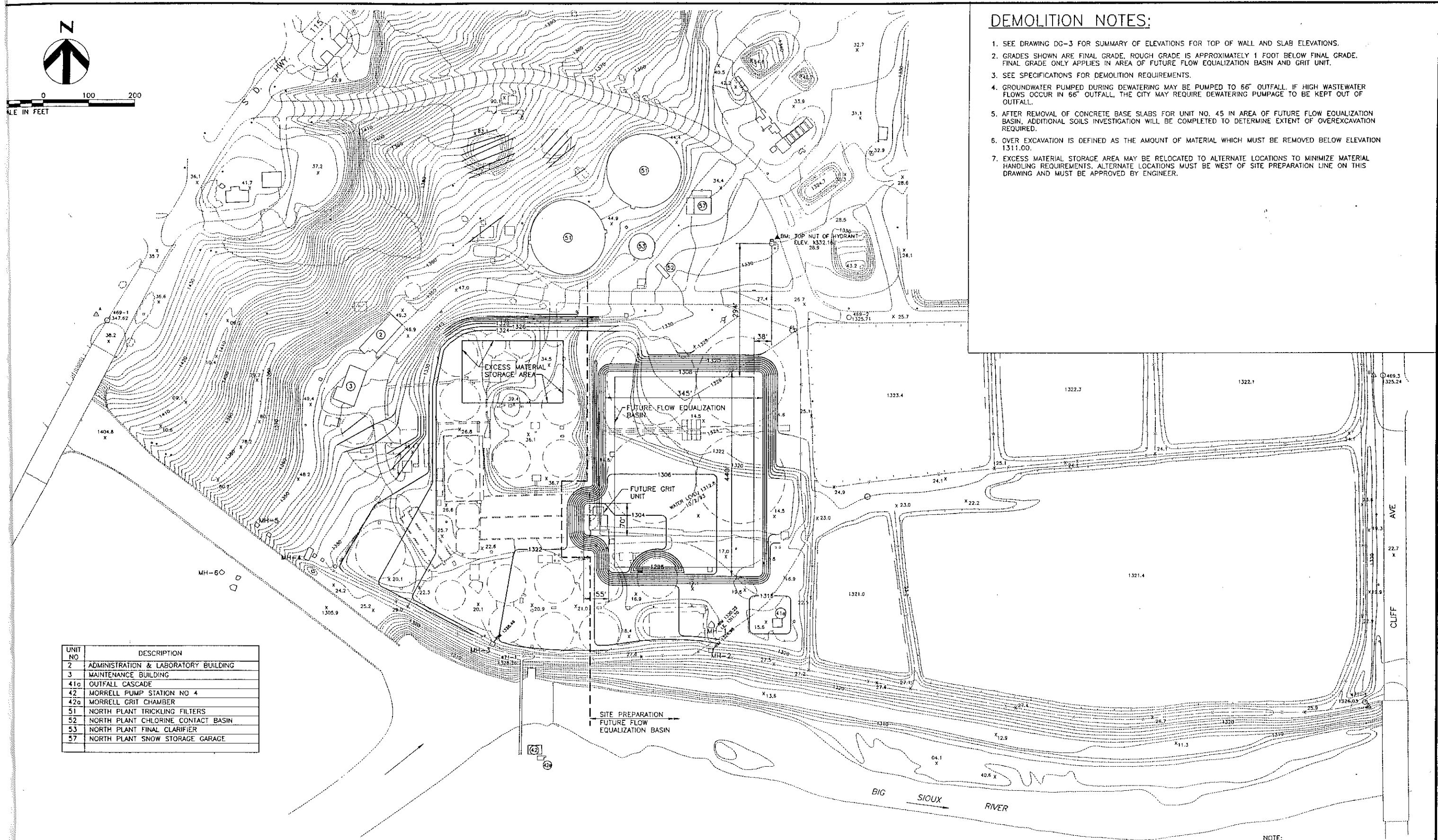
Date: JANUARY 1994
 Scale: AS NOTED
 Project No.: 01450-096-134
 Drawing No.: DG-3
 Issue: A





DEMOLITION NOTES:

1. SEE DRAWING DG-3 FOR SUMMARY OF ELEVATIONS FOR TOP OF WALL AND SLAB ELEVATIONS.
2. GRADES SHOWN ARE FINAL GRADE. ROUGH GRADE IS APPROXIMATELY 1 FOOT BELOW FINAL GRADE. FINAL GRADE ONLY APPLIES IN AREA OF FUTURE FLOW EQUALIZATION BASIN AND GRIT UNIT.
3. SEE SPECIFICATIONS FOR DEMOLITION REQUIREMENTS.
4. GROUNDWATER PUMPED DURING DEWATERING MAY BE PUMPED TO 66" OUTFALL. IF HIGH WASTEWATER FLOWS OCCUR IN 66" OUTFALL, THE CITY MAY REQUIRE DEWATERING PUMPAGE TO BE KEPT OUT OF OUTFALL.
5. AFTER REMOVAL OF CONCRETE BASE SLABS FOR UNIT NO. 45 IN AREA OF FUTURE FLOW EQUALIZATION BASIN, ADDITIONAL SOILS INVESTIGATION WILL BE COMPLETED TO DETERMINE EXTENT OF OVEREXCAVATION REQUIRED.
6. OVER EXCAVATION IS DEFINED AS THE AMOUNT OF MATERIAL WHICH MUST BE REMOVED BELOW ELEVATION 1311.00.
7. EXCESS MATERIAL STORAGE AREA MAY BE RELOCATED TO ALTERNATE LOCATIONS TO MINIMIZE MATERIAL HANDLING REQUIREMENTS. ALTERNATE LOCATIONS MUST BE WEST OF SITE PREPARATION LINE ON THIS DRAWING AND MUST BE APPROVED BY ENGINEER.



UNIT NO	DESCRIPTION
2	ADMINISTRATION & LABORATORY BUILDING
3	MAINTENANCE BUILDING
41a	OUTFALL CASCADE
42	MORRELL PUMP STATION NO 4
42a	MORRELL GRIT CHAMBER
51	NORTH PLANT TRICKLING FILTERS
52	NORTH PLANT CHLORINE CONTACT BASIN
53	NORTH PLANT FINAL CLARIFIER
57	NORTH PLANT SNOW STORAGE GARAGE

NOTE:
CONTOUR INTERVAL=2 FEET

HDR
Engineering, Inc.

Name	Description	Date	Drawn	Chkd.	Resp. Engr.	Proj. Mgr.

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Site Demolition
Flow Equalization Basin

Sioux Falls, South Dakota

**Final Grading Plan
(Post Demolition)**

Date JANUARY 1994	Project No. 01450-096-134	Drawing No. DG-4	Issue A
Scale AS NOTED			