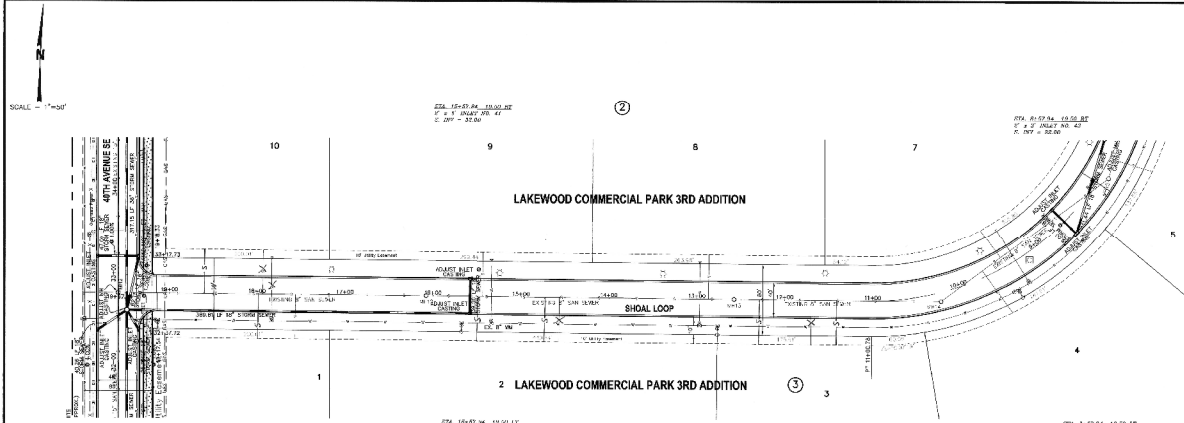


CONSTRUCTION NOTES (THIS SHEET)

1. 21ST STREET SE AND SHOAL LOOP WILL BE 10' TO 6" BELOW TOP OF CURB, 21ST FROM THE COMPLETION OF THE WATER AND SANITARY SEWER CONTRACT.



Sta. 19+47.04
Begin Storm Sewer Quantities

Sta. 19+17.54 LL
Begin Curb & Gutter, Asphalt

Sta. 19+19.11 RL
Begin Curb & Gutter, Asphalt

STORM SEWER MANHOLE AND INLET SCHEDULE

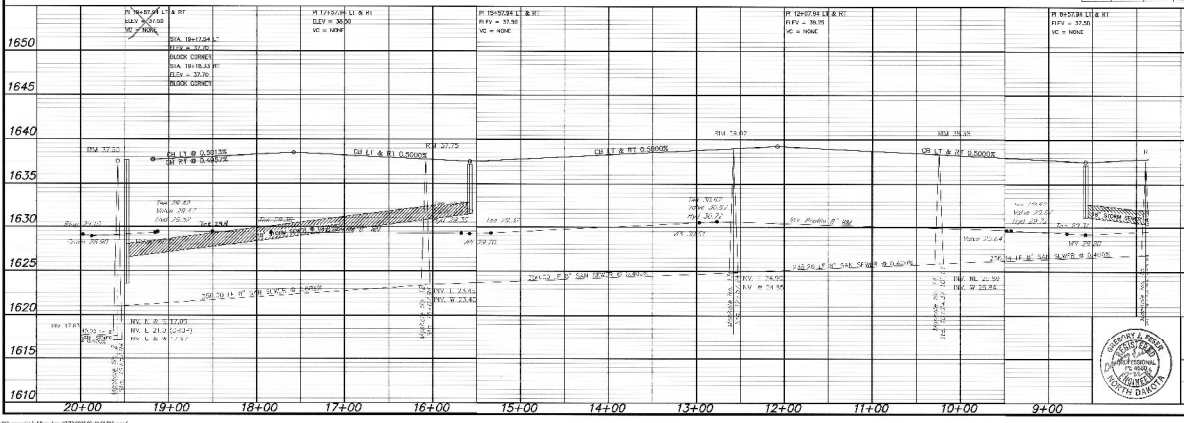
MANHOLE NO.	INLET NO. 1	INLET NO. 2	INLET NO. 3	INLET NO. 4
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12
13	13	13	13	13
14	14	14	14	14
15	15	15	15	15
16	16	16	16	16
17	17	17	17	17
18	18	18	18	18
19	19	19	19	19
20	20	20	20	20
21	21	21	21	21
22	22	22	22	22
23	23	23	23	23
24	24	24	24	24
25	25	25	25	25
26	26	26	26	26
27	27	27	27	27
28	28	28	28	28
29	29	29	29	29
30	30	30	30	30
31	31	31	31	31
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33	33	33	33	33
34	34	34	34	34
35	35	35	35	35
36	36	36	36	36
37	37	37	37	37
38	38	38	38	38
39	39	39	39	39
40	40	40	40	40
41	41	41	41	41
42	42	42	42	42
43	43	43	43	43
44	44	44	44	44
45	45	45	45	45
46	46	46	46	46
47	47	47	47	47
48	48	48	48	48
49	49	49	49	49
50	50	50	50	50
51	51	51	51	51
52	52	52	52	52
53	53	53	53	53
54	54	54	54	54
55	55	55	55	55
56	56	56	56	56
57	57	57	57	57
58	58	58	58	58
59	59	59	59	59
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62	62	62	62	62
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64	64	64	64	64
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69	69	69	69	69
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76	76	76	76	76
77	77	77	77	77
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79	79	79	79	79
80	80	80	80	80
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82	82	82	82	82
83	83	83	83	83
84	84	84	84	84
85	85	85	85	85
86	86	86	86	86
87	87	87	87	87
88	88	88	88	88
89	89	89	89	89
90	90	90	90	90
91	91	91	91	91
92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96
97	97	97	97	97
98	98	98	98	98
99	99	99	99	99
100	100	100	100	100

Sta. 19+57.84 19.00 FT
E. & F. INLET NO. 42
E. INV = 31.12
W. INV = 31.02

End Storm Sewer Quantities
Sta. 19+57.84
End Curb & Gutter, Asphalt
Sta. 19+00.00

CURVE DATA

CURVE	START	LENGTH	LANE(S)	DELTA
1	1300.00	1387.40	1	998.07
2	2687.40	747.00	0	747.00



41716 5" PAVING

APPROXIMATE QUANTITIES

ITEM	QUANTITY
GRADING ITEMS	
Grading	1 LS
Subgrade Matting	45 MGS
4" Topsoil	4,970 SF
Seedling & Mulching	4,970 SF
ASPHALT ITEMS	
3" AC Base Course (Cross B)	783 Ton
2" AC Surface Course (Cross B)	598 Ton
Dimensional Tack Oil	456 Gal
Aggregate Seal Course	4580 SF
Adjust Manhole Casting	3 EA
CONCRETE ITEMS	
Standard Curb & Gutter	2229 LF
Adjust Inlet Casting	4 EA
STORM SEWER ITEMS	
18" RCP Storm Sewer	488 LF
24" Inlet	1 EA
24" Inlet	1 EA
MISCELLANEOUS ITEMS	
Signage	1 LS

SWENSON HAGEN & COMPANY P.C.
Professional Engineers
1000 1st Avenue SE
Mandan, ND 58542
701-781-1000

SHOAL LOOP
FROM NORTH AVENUE SE TO
800' SOUTH OF 21ST STREET SE

STREET IMPROVEMENT DISTRICT NO. 133
SHEET C11 OF 19 PROJECT 2005-16
MANDAN, ND JULY 22, 2005

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