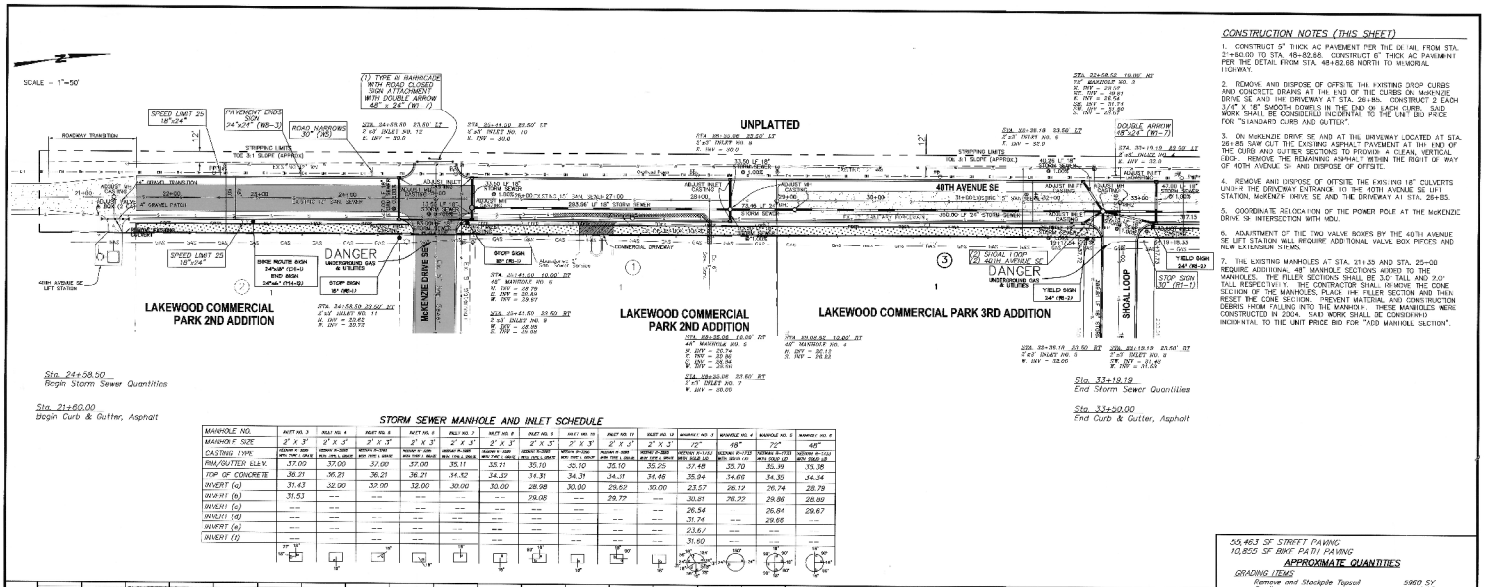


CONSTRUCTION NOTES (THIS SHEET)

1. CONSTRUCT 5" THICK AC PAVEMENT PER THE DETAIL FROM STA. 21+60.00 TO STA. 48+82.66. CONSTRUCT 6" THICK AC PAVEMENT PER THE DETAIL FROM STA. 48+82.66 NORTH TO MEMORIAL HIGHWAY.

2. REMOVE AND DISPOSE OF OFFSITE THE EXISTING DROP CURBS AND CONCRETE DRAINS AT THE END OF THE CURBS ON McKENZIE DRIVE SE AND THE DRIVEWAY AT STA. 26+85. CONSTRUCT 2 EACH 3/4" X 18" SMOOTH DOWELS IN THE END OF EACH CURB. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR "STANDARD CURB AND GUTTER".

3. ON McKENZIE DRIVE SE AND AT THE DRIVEWAY LOCATED AT STA. 26+85 SAW CUT THE EXISTING ASPHALT PAVEMENT AT THE END OF THE CURB AND GUTTER SECTIONS TO PROVIDE A CLEAN, VERTICAL EDGE. REMOVE THE REMAINING ASPHALT WITHIN THE RIGHT OF WAY OF 40TH AVENUE SE AND DISPOSE OF OFFSITE.

4. REMOVE AND DISPOSE OF OFFSITE THE EXISTING 18" CULVERTS UNDER THE DRIVEWAY ENTRANCE TO THE 40TH AVENUE SE LIFT STATION, McKENZIE DRIVE SE AND THE DRIVEWAY AT STA. 26+85.

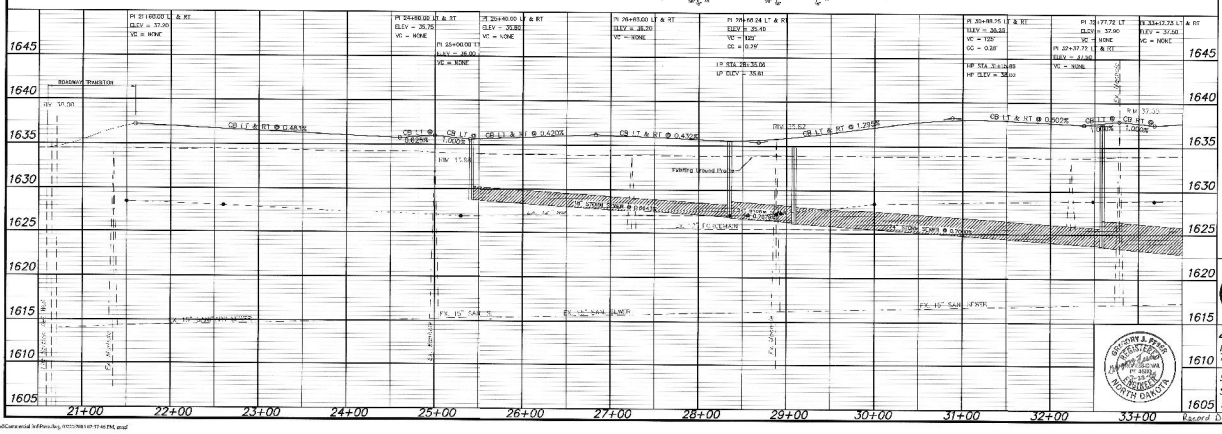
5. COORDINATE RELOCATION OF THE POWER POLE AT THE McKENZIE DRIVE SE INTERSECTION WITH MDU.

6. ADJUSTMENT OF THE TWO VALVE BOXES BY THE 40TH AVENUE SE LIFT STATION WILL REQUIRE ADDITIONAL VALVE BOX PIPES AND NEW EXTENSION STEMS.

7. THE EXISTING MANHOLES AT STA. 21+35 AND STA. 25+08 REQUIRE ADDITIONAL 48" MANHOLE SECTIONS ADDED TO THE MANHOLES. THE FILLER SECTIONS SHALL BE 3.0' TALL AND 7.0' TALL RESPECTIVELY. THE CONTRACTOR SHALL REMOVE THE CONE SECTION OF THE MANHOLES, PLACE THE FILLER SECTION AND THEN RESET THE CONE SECTION. PREVENT MATERIAL AND CONSTRUCTION DEBRIS FROM FALLING INTO THE MANHOLE. THESE MANHOLES WERE CONSTRUCTED IN 2004. SAID WORK SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE BID FOR "ADD MANHOLE SECTION".

STORM SEWER MANHOLE AND INLET SCHEDULE

MANHOLE NO.	INLET NO. 3	INLET NO. 4	INLET NO. 5	INLET NO. 6	INLET NO. 7	INLET NO. 8	INLET NO. 9	INLET NO. 10	INLET NO. 11	INLET NO. 12	MANHOLE NO. 3	MANHOLE NO. 4	MANHOLE NO. 5	MANHOLE NO. 6
MANHOLE SIZE	2' X 3'	2' X 3'	2' X 3'	2' X 3'	2' X 3'	2' X 3'	2' X 3'	2' X 3'	2' X 3'	2' X 3'	72"	48"	72"	48"
CASTING TYPE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	SQUARE W/ SOLID METAL TYPE I GRATE	VENTED W/ LOCK METAL TYPE I GRATE	VENTED W/ LOCK METAL TYPE I GRATE	VENTED W/ LOCK METAL TYPE I GRATE	VENTED W/ LOCK METAL TYPE I GRATE
RIM/GUTTER ELEV.	37.00	37.00	37.00	37.00	35.11	35.11	35.10	35.10	35.25	35.25	37.48	35.70	35.35	35.35
TOP OF CONCRETE	36.21	36.21	36.21	36.21	34.32	34.32	34.31	34.31	34.46	34.46	35.94	34.66	34.30	34.34
INVERT (a)	31.43	32.00	32.00	32.00	30.00	30.00	28.98	30.00	29.67	30.00	23.57	26.12	26.74	28.79
INVERT (b)	31.53	---	---	---	---	---	29.08	---	29.77	---	30.81	26.22	29.86	28.89
INVERT (c)	---	---	---	---	---	---	---	---	---	---	26.54	---	26.84	29.67
INVERT (d)	---	---	---	---	---	---	---	---	---	---	31.74	---	29.68	---
INVERT (e)	---	---	---	---	---	---	---	---	---	---	23.67	---	---	---
INVERT (f)	---	---	---	---	---	---	---	---	---	---	31.60	---	---	---



55,463 SF STREET PAVING
10,855 SF BIKE PATH PAVING

APPROXIMATE QUANTITIES

GRADING ITEMS	
Remove and Stockpile Topsoil	5960 SY
Grading	1 LS
Subgrade Watering	47 MGal
Class V Gravel	120 Ton
Class V Gravel – Temporary	705 Ton
4" Trenching	4,360 SY
Seeding & Mulching	4,360 SY
Asphalt Removal	12,680 SF
ASPHALT ITEMS	
3" AC Base Course (Class B)	1027 Ton
2" AC Surface Course (Class B)	685 Ton
2 3/4" AC Surface Course (Class B)	185 Ton
4" Recycled Asphalt Base	398 Ton
Bituminous Tack Oil	276 Gal
Aggregate Seal Course	6163 SY
Adjust Manhole Casting	8 EA
CONCRETE ITEMS	
Standard Curb & Gutter	2334 LF
8" Concrete Driveway	64.1 SY
Adjust Inlet Casting	10 EA
STORM SEWER ITEMS	
18" RCP Storm Sewer	695 LF
24" RCP Storm Sewer	443 LF
48" Manhole	3 EA
72" Manhole	1 EA
2'x3' Inlet	10 EA
Subdrain Gravel	18 Ton
MISCELLANEOUS ITEMS	
Signage	1 LS
Adjust Valve Box	5 EA
Remove Culverts	1 LS
Add Manhole Section	2 EA

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Planning
Surveying
Land Planning
Civil Engineering
Landscape & Site Design
Construction Management

40TH AVENUE

FROM 350' SOUTH OF McKENZIE DRIVE SE TO SHOAL LOOP

STREET IMPROVEMENT DISTRICT NO. 133
SHEET C2 OF 19 PROJECT 2005-16
MANDAN, ND JULY 22, 2005
Record Drawing

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