PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER
SLOPE EASEMENT (CONST. LIMITS) — SE —

SPRINGS
MARSH
TIMBER — DECIDUOUS / CONIFEROUS
ORCHARD
BRUSH
NURSERY
CATCH BASIN — C.B.
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE, CONCRETE, OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH POLE LINE
JOINT TELEPHONE AND POWER ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL (TELEPHONE CABLE TERMINAL)
GAS MAIN — G — G —
WATER MAIN — I — I —

TELEPHONE CABLE IN CONDUIT — T —
ELECTRIC CABLE IN CONDUIT — P —
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE — T-B —
BURIED ELECTRIC CABLE — P-B —
AERIAL TELEPHONE CABLE — T —
SEWER, (SANITARY OR STORM) — S —
SEWER MANHOLE
CABLE TV — TV —

NOTE SECTION NUMBERS READ FROM THE SOUTH

THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION," DATED 1988 AND ALL ADDITIONS AND AMENDMENTS THERETO SHALL GOVERN EXCEPT AS MODIFIED BY SPECIFICATION FOR THIS PROJECT

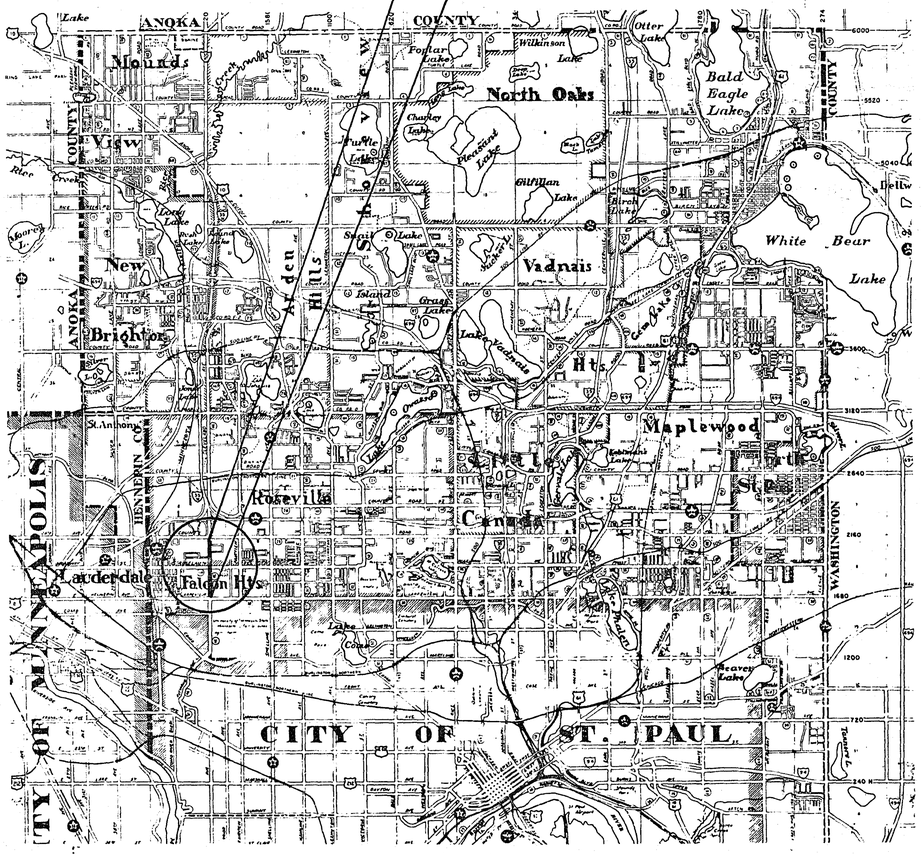
	FEET	MILES
GROSS LENGTH	5207	0.986
EXCEPTION	0	0
NET LENGTH	5207	0.986

SCALES

PLAN 0 20 40 60 / 10 30 50
PROFILE HORIZ. 0 20 40 60 / 10 30 50
PROFILE VERT. 0 10 / 5
CROSS SECTIONS 0 10 / 5
LAYOUT MAP 0 / 5,280'

END S.A.P. 62-646-08
STA. 52+37.00

BEGIN S.A.P. 62-646-08
STA. 0+30.00



DESIGN DESIGNATION

PRESENT ADT	8,750 (1991)
PROJECTED ADT	13,125 (2011)
FUNCTIONAL CLASS	MINOR ARTERIAL
TRAFFIC LANES	2
PARKING LANES	0
DESIGN LOAD	10 TON
STABILOMETER "R" VALUE	30
N18 20 YEAR	1,935,000
DESIGN SPEED	40 MPH

BASED ON STOPPING SIGHT DISTANCE
HEIGHT OF EYE: 3.50 FEET
HEIGHT OF OBJECT: 0.50 FEET

RAMSEY COUNTY
DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLAN FOR: GRADING, AGGREGATE BASE, BITUMINOUS BASE AND SURFACING, STORM SEWER, CONCRETE CURB AND GUTTER, AND UTILITY IMPROVEMENTS

CLEVELAND AVENUE
C.S.A.H. 46

BETWEEN: LARPENTEUR AVENUE (C.S.A.H. 30) & COUNTY ROAD B (C.S.A.H. 25)

FROM: A POINT 30.0 FEET NORTH OF THE SOUTHWEST CORNER OF SECTION 16, TOWNSHIP 29, RANGE 23 WEST

TO: A POINT 21.6 FEET SOUTH OF THE NORTHWEST CORNER OF SECTION 16, TOWNSHIP 29, RANGE 23 WEST

S.A.P NO. 62-646-08

ACCOUNT NO. 47442

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-3	STATEMENT OF ESTIMATED QUANTITIES,STANDARD PLATES, CONSTRUCTION NOTES, QUANTITY NOTES
4	TYPICAL SECTIONS
5	CHARTS - CLEAR & GRUB, SILT FENCE, SALVAGES, INSTALLS
6	EXISTING STRUCTURE CHART, ADJUSTS,HYDRANT CHART
7	PROPOSED DRAINAGE CHART, SAWCUTS, REMOVES
8	ENTRANCE, WALL AND OTHER MISCELLANEOUS DETAILS
9	PROPOSED DRAINAGE STRUCTURE, SILT FENCE, DRAIN TILE DETAILS
10-15	PLAN & PROFILE SHEETS
16	COMMUNITY PARK PONDING PLAN
17-41	CROSS SECTIONS AND EARTHWORK SUMMARY

AS-BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

DESIGN SQUAD DEM DATE 3/11/92
DRAWN BY DEM DATE 3/11/92
CHECKED BY B.J., DEM DATE 3/11/92

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DATE 3-11-92 REG. NO. 14257 ENGR. David L. Rhodl

RAMSEY COUNTY

RECOMMENDED FOR APPROVAL DES TRAFFIC ENGR. DATE 3/11/92
RECOMMENDED FOR APPROVAL KMR ENV. ENGR. DATE 3-11-92
RECOMMENDED FOR APPROVAL PJH MAINT. ENGR DATE 3-11-92
RECOMMENDED FOR APPROVAL RHP CONST. ENGR. DATE 3-11-92
RECOMMENDED FOR APPROVAL _____ DESIGN ENGR. DATE _____
RECOMMENDED FOR APPROVAL DAB ADMIN. ENGR DATE 3-11-92
RECOM'D _____ COORDINATING ENGR DATE 3-11-92
RECOM'D _____ PROGRAM ENGINEER DATE 3/11/92

RECOMMENDED FOR APPROVAL Paul Kuhnly COUNTY ENGINEER DATE 3/12/92
APPROVED Harold A. Wrgard CHAIR OF THE RAMSEY COUNTY BOARD DATE 6/18/92
APPROVED Steven O. Hattin CITY OF ROSEVILLE DATE 4-9-92
APPROVED Terry O'Meara CITY OF FALCON HEIGHTS DATE 4/13/92

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL _____ STATE AID PLANS ENGINEER DATE 5-7-92
RECOMMENDED FOR APPROVAL _____ DISTRICT STATE AID ENGINEER DATE April 23, 1992
APPROVAL _____ for STATE AID ENGINEER DATE 5/7/92

PLAN REVISIONS		
DATE	SHEET NO.	BY
3/13/92	2,3,5,6,7,11-15	B.J-DM
3/26/92	4,6,12-15	BJ-DM
3/31/92	1,2,3,7,8,15,23-33	BJ,DM,DM
4/24/92	2,3,4,10,12,16,41	DM
6/26/92	2	DM

REVISED 6/26/92 — SHEET NO 2,10,11,15. 7R — BY BJ DJ — DATE 8/11/92 9/10/92

28-131

S.A.P. NO. 62-646-08 — Sheet No. 1 of 41 Sheets

STATEMENT OF ESTIMATED QUANTITIES

	ITEM NO.	CONTRACT ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	S.A.P. 62-646-08 RAMSEY COUNTY		CITY OF FALCON HEIGHTS 25% S.A.P. 62-646-08 75% FALCON HEIGHTS		CITY OF FALCON HEIGHTS 100% LOCAL FUNDS		CITY OF ROSEVILLE 25% S.A.P. 62-646-08 75% ROSEVILLE		CITY OF ROSEVILLE 100% LOCAL FUNDS		STORM SEWER	
						ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES
	2021.501	MOBILIZATION	LS	1		1.00											
	2101.502	CLEARING	TREE	192		192											
	2101.507	GRUBBING	TREE	170		170											
	2104.501	REMOVE SEWER PIPE (R.C.)	LF	513		513											
	2104.501	REMOVE CURB & GUTTER	LF	939		939											
	2104.503	REMOVE STONE RETAINING WALL	SF	60		60											
	2104.505	REMOVE CONCRETE PAVEMENT	SY	330		330											
	2104.509	REMOVE MANHOLES, C.B. OR S.D.	EACH	3		3											
1	2104.511	SAWING CONCRETE PAVEMENT	LF	155		155											
2	2104.513	SAWING BITUMINOUS PAVEMENT	LF	593		593											
	2104.521	SALVAGE CHAIN LINK FENCE	LF	2643		2643											
	2104.521	SALVAGE WOODEN FENCE	LF	334		334											
	2104.521	SALVAGE WIRE FENCE	LF	3068		3068											
	2104.523	SALVAGE CASTINGS	EACH	8		8											
	2104.523	SALVAGE SIGN	EACH	1		1											
	2105.501	COMMON EXCAVATION (P)	CY	40461		34796		2967				2698					
	2105.505	MUCK EXCAVATION	CY	9587		8279						1308					
	2105.515	UNCLASSIFIED EXCAVATION (P)	CY	15134												15134	
	2105.521	GRANULAR BORROW (LV)	CY	23999		20639		1207				2153					
	2105.525	TOPSOIL BORROW (LV)	CY	208		208											
	2130.501	WATER	M GAL	100		100											
3	2211.503	100% CRUSHED QUARRY LIMESTONE PLACED	CY	70												70	
4	2211.503	AGGREGATE BASE PLACED CL.6 (P)	CY	6082		4682		415		290		415		280			
	2340.508	TYPE 61 WEARING COURSE MIXTURE	TON	1715		1481		117				117					
5	2340.508	TYPE 31 WEARING COURSE MIXTURE	TON	77		77											
	2340.510	TYPE 41 BINDER COURSE MIXTURE	TON	2573		2223		175				175					
6	2340.514	TYPE 31 BASE COURSE MIXTURE	TON	7796		6732		532				532					
7	2357.502	BITUMINOUS MAT. FOR TACK COAT	GAL	4285		3690		297				298					
	0411.603	PRECAST RETAINING WALL	SF	410				410									
	0412.602	INSTALL WOOD SIGN	EACH	1		1											
	0501.602	TRASH GUARD FOR 15" PIPE APRON	EACH	3												3	
	0501.602	TRASH GUARD FOR 18" PIPE APRON	EACH	1												1	
	0501.602	TRASH GUARD FOR 24" PIPE APRON	EACH	2												2	
	2501.515	15" RC PIPE APRON	EACH	4												4	
	2501.515	18" RC PIPE APRON	EACH	2												2	
	2501.515	24" RC PIPE APRON	EACH	2												2	
	2502.541	4" PERFORATED P.E. PIPE DRAIN	LF	10000		10000											
	0503.605	4" POLYSTYRENE INSULATION	SY	93		93											
	2503.541	15" RC PIPE SEWER DES. 3006 CL V	LF	2862												2862	
	2503.541	18" RC PIPE SEWER DES. 3006 CL V	LF	1142												1142	
	2503.541	24" RC PIPE SEWER DES. 3006 CL III	LF	642												642	
	0504.602	RELOCATE HYDRANT ASSEMBLY	EACH	3		3											
	2105.522	SELECT GRANULAR BORROW (L.V)	CY	14836		12760		1038				1038					
	2340.501	CONTRACTOR TESTING, BITUMINOUS	TON	12161		10513		824				824					
	0461.601	CONCRETE CERTIFICATION	CY	1131		811				160				160			

QUANTITY NOTES

1. INCLUDES 15 L.F. OF CURB & GUTTER
2. INCLUDES 247 L.F. OF ENTRANCES
3. FOR PATH AT COMMUNITY PARK STORM WATER POND
4. INCLUDES 158 C.Y. FOR ENTRANCES
5. FOR ENTRANCES
6. INCLUDES 77 TON FOR ENTRANCES
7. INCLUDES 32 GAL. FOR ENTRANCES
   DOES NOT INCLUDE 0331.601-BIT.
   DRIVEWAY REPLACEMENT (PRIVATE)

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL COOPERATE WITH RAMSEY COUNTY AS RELATES TO PERPETUATING MONUMENTATION. ADVANCE NOTICE OF ANY DISTURBANCE OF MONUMENTS SHOULD BE MADE TO THE RAMSEY COUNTY SURVEYORS OFFICE AT 298-5278.
- THE CONTRACTOR SHALL OBTAIN FROM THE UTILITY COMPANIES THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES WHICH MAY EXIST WITHIN, OR ADJACENT TO, THE CONSTRUCTION AREA.
- PEDESTRIAN CURB RAMPS SHALL BE INSTALLED AT ALL STREET RADII. THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- TOP OF "GRADING GRADE" IS DEFINED AS THE TOP OF THE EMBANKMENT MATERIAL OR THE BOTTOM OF THE AGGREGATE BASE COURSE.
- STRIP TOPSOIL FROM ALL AREAS TO BE DISTURBED BY CONSTRUCTION AND STOCKPILE (IF PRACTICAL) FOR REPLACEMENT LATER AS SLOPE DRESSING.
- PROVIDE FOR REMOVAL AND DISPOSAL OF (OUTSIDE THE CONSTRUCTION ZONE) ANY INPLACE SURFACING AND STRUCTURES THAT WILL INTERFERE WITH CONSTRUCTION.
- FROM A SOILS STANDPOINT, TRAFFIC SHALL BE MAINTAINED NO CLOSER THAN AN IMAGINARY 2:1 LINE DRAWN FROM THE BOTTOM OF ANY EXCAVATION INTERSECTING THE SURFACING.
- THE ORDINARY COMPACTION METHOD SHALL BE USED ON THIS PROJECT.
- PROVIDE DRAINAGE OUTLETS FOR ALL SUBCUTS DURING CONSTRUCTION. DITCHES SHOULD BE DEEPER THAN SUBCUT TO PROVIDE OUTLET DRAINAGE.
- PROVIDE A TACK COAT, SPEC. 2357.2A, BETWEEN BITUMINOUS COURSES.
- WHERE THE PROPOSED SUBCUT IS LOCATED UNDER INPLACE BASE AND BITUMINOUS SURFACING OR CONCRETE PAVEMENT, THE ENDS OF SUBCUT SHALL BE VERTICAL FOR THE DEPTH OF THE BITUMINOUS OR CONCRETE AND 2:1 IN AGGREGATE BASE.
- TAPER ENDS OF SUBCUT TO A 20:1 SLOPE UNLESS OTHERWISE RECOMMENDED.
- UNSUITABLE GRADING MATERIAL SHALL CONSIST OF TOPSOIL, OTHER ORGANIC SOIL, AND DEBRIS.
- SILT FENCE SHALL BE INSTALLED AT ALL FILL SLOPES AND MAY BE REQUIRED AT OTHER LOCATIONS DURING CONSTRUCTION AS DETERMINED BY THE ENGINEER.
  (SPEC. 2573, 3886 & 1707: 1803.5)

BASIS OF ESTIMATED QUANTITIES

2340.XXX BITUMINOUS ESTIMATED AT 110 LBS. PER S.Y. PER INCH
2357.502 BITUMINOUS MATERIAL FOR TACK COAT
0.05 GAL. PER S.Y. PER LAYER
2575.511 SEED MIXTURE SPECIAL 1 = 45 LBS. PER ACRE
2575.511 SEED MIXTURE SPECIAL 2 = 45 LBS. PER ACRE
2575.511 MULCH MATERIAL TYPE 1 = 2 TON PER ACRE
2575.531 COMMERCIAL FERTILIZER 12-12-12 = 350 LBS. PER ACRE FOR SOD

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

REVISED 3/31/92 D.S.H.
REVISED 4/24/92 DM

REVISED 5/26/92 D.S.H.

STATEMENT OF ESTIMATED QUANTITIES

	ITEM NO.	CONTRACT ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	S.A.P. 62-646-08 RAMSEY COUNTY		CITY OF FALCON HEIGHTS 25% S.A.P. 62-646-08 75% FALCON HEIGHTS		CITY OF FALCON HEIGHTS 100% LOCAL FUNDS		CITY OF ROSEVILLE 25% S.A.P. 62-646-08 75% ROSEVILLE		CITY OF ROSEVILLE 100% LOCAL FUNDS		STORM SEWER	
						ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES	ESTIMATED QUANTITIES	FINAL QUANTITIES
	0331.601	BITUMINOUS DRIVEWAY REPLACEMENT (PRIVATE)	SY	873										873			
	0503.602	BYPASS PUMPING FOR SANITARY SEWER	EACH	1		1											
8	0503.603	8" PVC SANITARY SEWER	LF	225		112						18		95			
9	0503.603	10" PVC SANITARY SEWER	LF	255		103						17		135			
10	0503.603	REPLACE 4" SANITARY SEWER SERVICE	LF	270		26						4		240			
	0504.602	ADJUST HYDRANT	EACH	3		3											
11	0504.602	ADJUST VALVE BOX	EACH	13		13											
	0504.602	ADJUST CURB STOP BOX	EACH	8		8											
	0504.602	6" GATE VALVE AND BOX	EACH	3										3			
	0504.603	ADJUST IRRIGATION PIPE	LF	1625		1625											
	0504.602	CONNECT TO EXISTING 12" C.I.P.	EACH	2		2											
	0504.602	CONNECT TO EXISTING 6" C.I.P.	EACH	1		1											
	0504.602	TEMPORARY WATER SERVICE	EACH	4		3						1					
	0504.603	REPLACE WATER SERVICE	LF	60		52						8					
	0504.603	12" D.I.P. WATERMAIN	LF	250		215						35					
	0504.603	6" D.I.P. WATERMAIN	LF	52		45						7					
	2104.501	REMOVE 12" C.I.P. WATERMAIN	LF	250		215						35					
	2104.501	REMOVE 6" C.I.P. WATERMAIN	LF	52		45						7					
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. A OR F	EACH	2												2	
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. C OR G	EACH	3												3	
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. 48-4020	EACH	5												5	
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. SP-2	EACH	23												23	
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. SP2-66-4020	EACH	1												1	
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. LP-4	EACH	10												10	
	2506.502	CONSTRUCT DRAIN STRUCTURE DES. LP4-48-4020	EACH	2												2	
	2506.511	RECONSTRUCT MANHOLES	LF	56.7		56.7											
	2506.516	CASTING ASSEMBLIES	EA	5		5											
	2506.521	INSTALL CASTINGS	EACH	7		7											
	2506.522	ADJUST FRAME AND RING CASTINGS	EACH	12		12											
	2511.501	RANDOM RIPRAP CLASS IV - 18" DEPTH	CY	11.3												11.3	
12	2521.501	4" CONCRETE WALK	SF	25465		765				13318				11382			
13	2531.501	CONC. CURB & GUTTER DES. B624	LF	11015		11015											
	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	SY	270		270											
	0557.603	INSTALL CHAIN LINK FENCE	LF	2643		2643											
	0557.603	INSTALL WOODEN FENCE	LF	334		334											
	0557.603	INSTALL WIRE FENCE	LF	3068		3068											
	0563.601	TRAFFIC CONTROL	LS	1		1											
	2573.502	SILT FENCE HEAVY DUTY	LF	5190		5190											
14	2575.502	SEED MIX SPECIAL 1	LBS	48												48	
14	2575.502	SEED MIX SPECIAL 2	LBS	138						90						48	
	2575.505	SODDING TYPE LAWN	SY	16968		16968											
14	2575.511	MULCH MATERIAL TYPE 1	TON	8.2						4						4.2	
14	2575.519	DISC ANCHORING	ACRE	3.05						2						1.05	
	2575.531	COMM. FERT. ANALYSIS 12-12-12	TON	0.6		0.6											
	2580.501	TEMPORARY LANE MARKING	RDSTA	53		53											
	0564.603	4" SOLID LINE WHITE EPOXY	LF	7550		7550											
	0564.603	4" SOLID LINE YELLOW EPOXY	LF	9640		9640											
	0564.603	4" BROKEN LINE WHITE EPOXY	LF	90		90											
	0564.603	4" BROKEN LINE YELLOW EPOXY	LF	1690		1690											
	2531.511	CONCRETE MEDIAN MOUNTABLE	CY	5.6		5.6											
	2575.501	SEEDING BY ACRE	ACRE	4.1						2						2.1	

QUANTITY NOTES

8. ESTIMATED : 130 L.F. FOR MUCK AREA
   95 L.F. FOR ROSEVILLE
9. ESTIMATED : 120 L.F. FOR MUCK AREA
   135 L.F. FOR ROSEVILLE
10. ESTIMATED : 30 L.F. FOR MUCK AREA
    240 L.F. ANTICIPATED REPLACEMENT FOR ROSEVILLE
11. INCLUDES 11 WATER VALVES AND 2 NSP GAS VALVES
12. INCLUDES 765 S.F. ON MEDIANS - 100% S.A.P.
13. INCLUDES 520 L.F. FOR MEDIANS
14. COMMUNITY PARK AREA

STANDARD PLATES

THE FOLLOWING STANDARD PLATES, ADPPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
0005A	SPECIFICATION REFERENCE TO STANDARD PLATES (1988)
3000L	REINFORCED CONCRETE PIPE
3006F	GASKET JOINT FOR REINFORCED CONCRETE PIPE
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133B	RIPRAP AT R.C. PIPE OUTLETS
3145E	CONCRETE PIPE TIES
4000I	MANHOLE OR CATCH BASIN - DESIGN A
4002E	MANHOLE OR CATCH BASIN - DESIGN C
4005K	MANHOLE OR CATCH BASIN - DESIGN F
4006K	MANHOLE OR CATCH BASIN - DESIGN G OR H
4010G	CONCRETE SHORT CONE & ADJUSTING RING
4011D	CONCRETE BASE
4020E	MANHOLE OR CATCH BASIN (USE UNDER TRAFFIC LOADS)
4021D	PRECAST CURB OPENING - CATCH BASIN AT LOW POINT
4101C	RING CASTINGS FOR MANHOLES OR CATCH BASINS
4108F	MANHOLE ADJUSTING RING
4110E	COVER CASTING FOR MANHOLE
4140D	SPECIAL GRATE CASTINGS FOR CATCH BASINS
4180H	MANHOLE OR CATCH BASIN STEP
7035J	CONCRETE WALK & CURB RETURNS AT ENTRANCES
7036D	PEDESTRIAN CURB RAMP DETAIL
7100F	CONCRETE CURB & GUTTER DESIGN B
7111G	INSTALLATION & REINFORCEMENT OF CATCH BASIN CASTING
8000I	STANDARD BARRICADES
9102D	SODDING AT PIPE CULVERT ENDS
9320G	WOVEN WIRE FENCE - WOOD POST
9321E	WOVEN WIRE FENCE - STEEL POST
9322J	CHAIN LINK FENCE

RIP-RAP CHART

LOCATION	STRUCTURE NUMBER	STRUCTURE SIZE	RIP RAP CL. IV 18"	GRANULAR CUSHION 9"
		INCHES	CU. YD.	CU. YD
19+31 RT.	AP 117	24	6.9	3.5
26+94 LT.	AP 123	18	4.4	2.2
		TOTAL =	11.3	5.7

NOTE: RIPRAP SHALL BE INSTALLED PER STANDARD PLATE 3133 AND SPECIFICATION 3601, EXCEPT THAT A GRANULAR CUSHION OF 9" AND [illegible] GEOTEXTILE FABRIC(TYPE IV, SPEC. 3733) SHALL BE REQUIRED.

PAYMENT FOR GRANULAR CUSHION & GEOTEXTILE FABRIC SHALL BE INCLUDED IN THE PRICE BID FOR ITEM NO. 2511.501, RANDOM RIPRAP. THEREFORE, NO ADDITIONAL COMPENSATION WILL BE MADE.

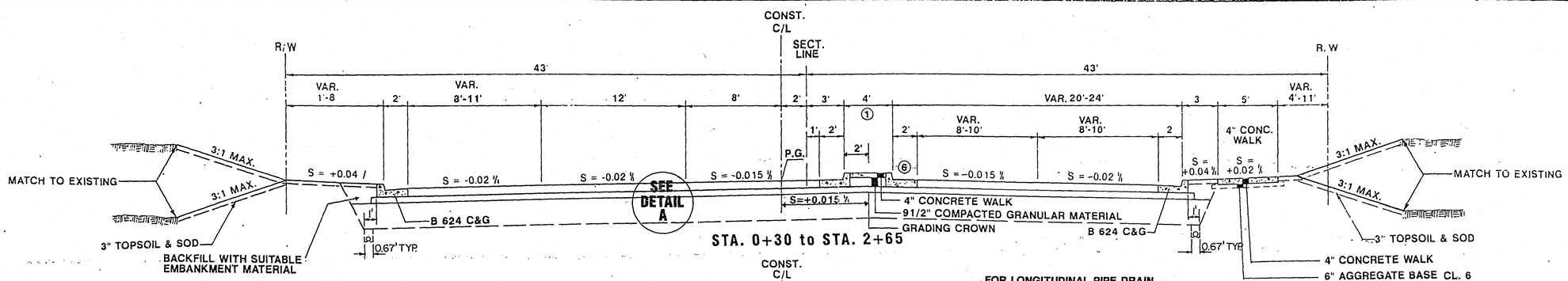
ESTIMATED QUANTITIES

GRANULAR CUSHION	5.7 CY
GEOTEXTILE FABRIC - TYPE IV	28 SY

AS BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

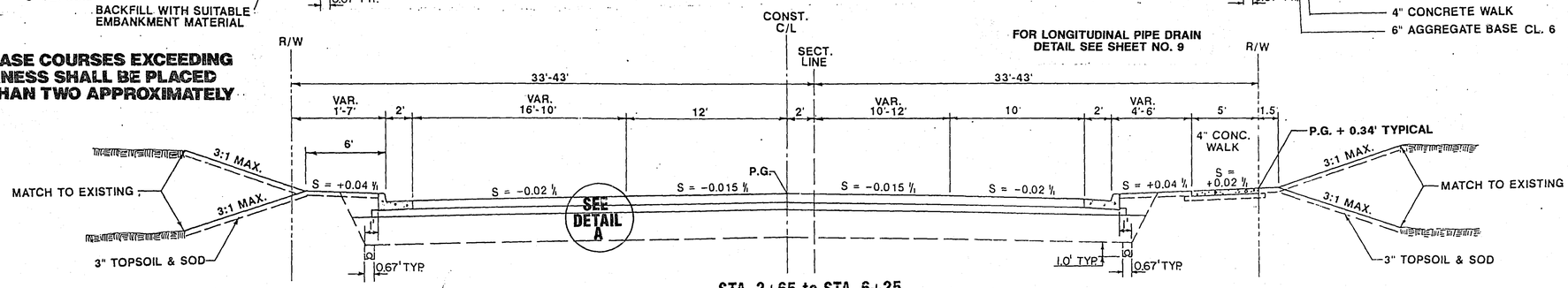
REVISED 3/31/92 D.S.H.
REVISED 4/24/92 DM



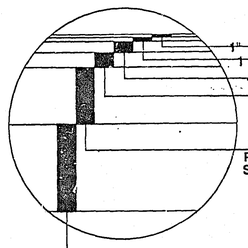
STA. 0+30 to STA. 2+65

NOTE: BITUMINOUS BASE COURSES EXCEEDING 2 1/2" IN THICKNESS SHALL BE PLACED IN NOT LESS THAN TWO APPROXIMATELY EQUAL LIFTS.

FOR LONGITUDINAL PIPE DRAIN DETAIL SEE SHEET NO. 9

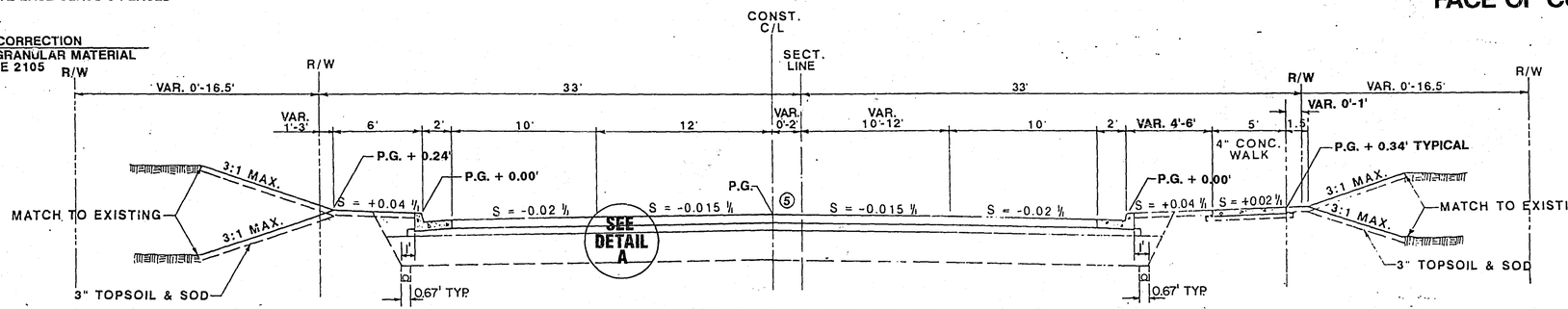


STA. 2+65 to STA. 6+25



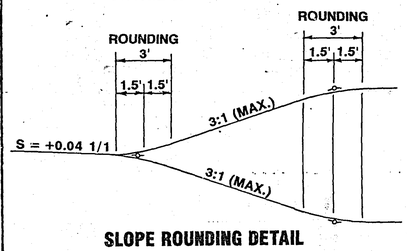
DETAIL A

NOTE: 1.5' CLEAR ZONE REQUIRED FROM FACE OF CURB TO ANY FIXED OBJECT

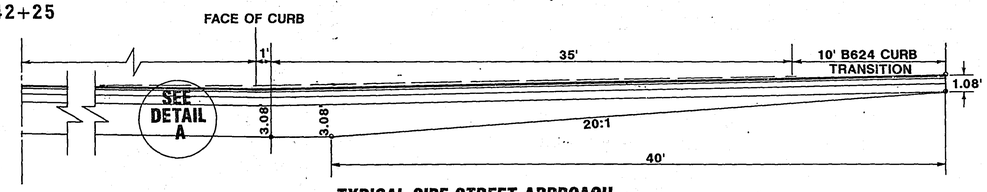


STA. 6+25 to STA. 42+25

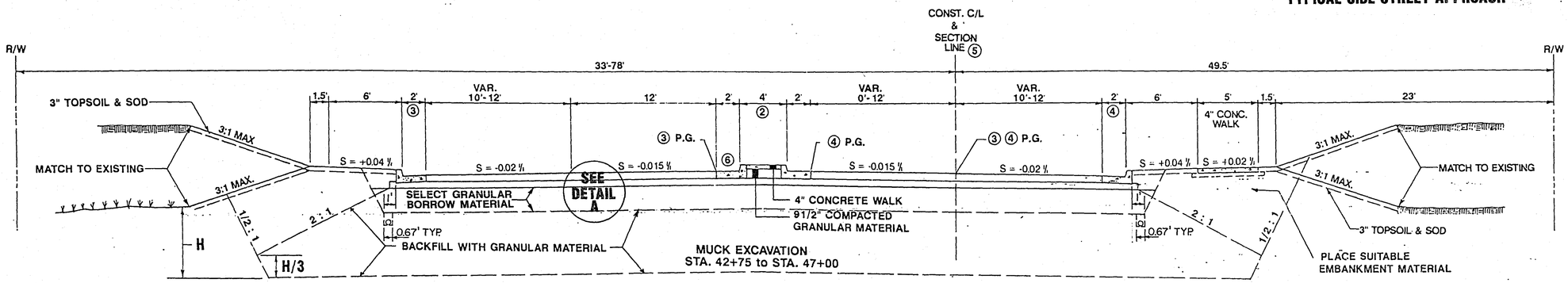
FOR LONGITUDINAL PIPE DRAIN DETAIL SEE SHEET NO. 9



SLOPE ROUNDING DETAIL



TYPICAL SIDE STREET APPROACH



STA. 42+25 to STA. 52+27

REVISED 3/26/92 DM
REVISED 4/24/92 DM

AS-BUILT PLAN
CONFORMING TO
CONST. REVISIONS
DONE BY: MR
DATE: 12-17-93

NOTES

28-131

① MEDIAN STA. 0+50 to STA. 2+00
② MEDIAN STA. 51+05 to STA. 52+10
③ BEGIN 40:1 TAPER STA. 42+25 @ SECTION LINE
④ BEGIN 40:1 TAPER STA. 46+25 @ SECTION LINE
⑤ STA. 40+00 to STA. 52+27
CONST. C/L = SECTION LINE
⑥ OUTFALL GUTTER ON ALL MEDIANS, STD. PLATE 7100

CLEAR & GRUB CHART

STATION	LOCATION RT./LT.	DESCRIPTION	CLEAR TREE	GRUB TREE
S.A.P. 62-646-08				
6+43	LT. 28'	6" ASH	1	1
8+93	LT. 39'	31" COTTONWOOD	1	1
9+29	LT. 36'	30" COTTONWOOD	1	1
16+07	RT. 48'	8" POPPLE	1	1
16+52	LT. 28'	(2) 8" OAK	2	1
17+13	LT. 25'	24" OAK	1	1
17+19	LT. 25'	20" OAK	1	1
17+27	LT. 23'	30" OAK	1	1
17+65	LT. 28'	20" OAK	1	1
17+84	LT. 27'	20" OAK	1	1
18+20	LT. 25'	30" OAK	1	1
18+51	LT. 26'	24" OAK	1	1
18+67	LT. 25'	12" OAK	1	1
18+79	LT. 25'	20" OAK	1	1
20+17	LT. 24'	40" OAK	1	1
21+00	LT. 25'	40" COTTONWOOD	1	1
21+23	LT. 25'	40" COTTONWOOD	1	1
28+41	LT. 42'	(3) 10" ELM	3	1
28+44	LT. 43'	14" ELM	1	1
28+44	LT. 43'	12" ELM	1	1
28+44	LT. 43'	6" ELM	1	1
28+54	LT. 38'	6" BOXELDER	1	1
28+66	LT. 35'	5" ELM	1	1
28+82	LT. 31'	(2) 4" ELM	2	1
28+84	LT. 33'	8" ELM	1	1
28+84	LT. 33'	6" ELM	1	1
28+98	LT. 22'	4" ELM	1	1
29+20	LT. 28'	(3) 6" ELM	3	1
29+27	LT. 26'	6" ELM	1	1
29+30	LT. 37'	6" ELM	1	1
29+32	LT. 26'	4" BOXELDER	1	1
29+50	LT. 35'	4" CEDAR	1	1
29+59	LT. 32'	5" SPRUCE	1	1
29+64	LT. 34'	5' SPRUCE	1	1
29+69	LT. 32'	5" SPRUCE	1	1
29+76	LT. 30'	5" SPRUCE	1	1
29+85	LT. 34'	4" APPLE	1	1
29+93	LT. 31'	5" CEDAR	1	1
30+00	LT. 32'	4" CRAB	1	1
30+12	LT. 31'	5" PINE	1	1
30+28	LT. 32'	4" PINE	1	1
30+66	RT. 40'	STUMP	0	1
30+72	LT. 28'	(4) 6" BOXELDER	4	1
30+72	LT. 28'	(5) 5" BOXELDER	5	1
30+72	LT. 28'	(3) 4" BOXELDER	3	1
* 30+90	RT. 46'	8" PINE	1	1
30+99	LT. 30'	(4) 6" BOXELDER	4	1
31+05	LT. 28'	6" MAPLE	1	1
31+08	RT. 38'	16" ELM	1	1
31+10	RT. 36'	16" ELM	1	1
31+87	LT. 33'	12" PINE	1	1
32+45	RT. 37'	4" ASH	1	1
32+48	RT. 34'	4" ASH	1	1
32+63	LT. 29'	(2) 18" COTTONWOOD	2	1
33+44	RT. 35'	6" BOXELDER	1	1
33+54	RT. 35'	8" BOXELDER	1	1
33+54	RT. 35'	6" BOXELDER	1	1
33+57	RT. 40'	12" WILLOW	1	1
33+58	RT. 35'	36" WILLOW	1	1
33+66	RT. 28'	4" BOXELDER	1	1
33+84	RT. 36'	4" POPPLE	1	1
33+85	RT. 38'	8" POPPLE	1	1
33+86	RT. 43'	8" POPPLE	1	1
33+92	RT. 33'	10" POPPLE	1	1
33+96	RT. 43'	6" POPPLE	1	1
34+01	RT. 34'	6" POPPLE	1	1
34+01	RT. 34'	4" POPPLE	1	1
34+07	RT. 38'	5" SPRUCE	1	1
34+36	RT. 37'	(2) 24" POPPLE	2	1
34+50	RT. 36'	30" POPPLE	1	1
34+50	RT. 36'	20" POPPLE	1	1

CLEAR & GRUB CHART

STATION	LOCATION RT./LT.	DESCRIPTION	CLEAR TREE	GRUB TREE
S.A.P. 62-646-08				
35+12	RT. 43'	3' JUNIPER	1	1
35+51	RT. 42'	5" SPRUCE	1	1
35+64	RT. 42'	5" SPRUCE	1	1
37+50	RT. 31'	12" HACKBERRY	1	1
37+55	RT. 27'	8" HACKBERRY	1	1
37+71	RT. 27'	20" ELM	1	1
38+98	LT. 32'	(2) 6" POPPLE	2	1
39+10	LT. 30'	4" BOXELDER	1	1
39+12	LT. 25'	8" ELM	1	1
39+15	LT. 32'	6" POPPLE	1	1
39+20	LT. 32'	8" BOXELDER	1	1
39+24	LT. 32'	4" POPPLE	1	1
39+33	LT. 34'	4" BOXELDER	1	1
39+38	LT. 31'	6" POPPLE	1	1
39+38	LT. 36'	14" OAK	1	1
39+47	LT. 33'	6" DEAD TREE	1	1
39+58	LT. 33'	6" POPPLE	1	1
39+63	LT. 33'	6" POPPLE	1	1
39+72	LT. 32'	4" POPPLE	1	1
39+78	LT. 34'	4" POPPLE	1	1
39+82	LT. 33'	4" POPPLE	1	1
39+86	LT. 31'	4" POPPLE	1	1
40+40	LT. 33'	5" BOXELDER	1	1
41+08	LT. 33'	8" ELM	1	1
41+27	LT. 31'	4" BOXELDER	1	1
41+35	LT. 31'	4" BOXELDER	1	1
43+01	LT. 32'	4" BOXELDER	1	1
43+08	LT. 37'	4" BOXELDER	1	1
43+08	LT. 37'	5" BOXELDER	1	1
43+08	LT. 37'	6" BOXELDER	1	1
43+12	LT. 37'	8" BOXELDER	1	1
43+12	LT. 37'	10" BOXELDER	1	1
43+28	LT. 33'	8" BOXELDER	1	1
43+35	LT. 33'	6" BOXELDER	1	1
43+44	LT. 34'	4" BOXELDER	1	1
43+49	LT. 34'	4" BOXELDER	1	1
43+63	LT. 34'	8" BOXELDER	1	1
43+68	LT. 34'	4" BOXELDER	1	1
43+72	LT. 34'	10" BOXELDER	1	1
43+72	LT. 34'	6" BOXELDER	1	1
43+83	LT. 36'	6" DEAD TREE	1	1
43+86	LT. 42'	14" WILLOW	1	1
43+88	LT. 32'	10" WILLOW	1	1
43+90	LT. 40'	14" WILLOW	1	1
43+94	LT. 37'	14" WILLOW	1	1
43+96	LT. 33'	10" WILLOW	1	1
43+99	LT. 33'	10" WILLOW	1	1
44+07	LT. 34'	4" BUCKTHORN	1	1
44+13	LT. 30'	8" ELM	1	1
44+28	LT. 31'	8" ELM	1	1
44+33	LT. 30'	4" BUCKTHORN	1	1
44+43	LT. 32'	4" ASH	1	1
44+44	LT. 36'	5" ASH	1	1
44+47	LT. 32'	5" ASH	1	1
44+50	LT. 36'	6" ASH	1	1
44+57	LT. 33'	(2) 4" BUCKTHORN	2	1
44+59	LT. 31'	4" BUCKTHORN	1	1
44+62	LT. 30'	4" ASH	1	1
44+70	LT. 34'	4" BUCKTHORN	1	1
44+76	LT. 35'	4" BUCKTHORN	1	1
44+80	LT. 30'	4' BUCKTHORN	1	1
44+84	LT. 33'	8" WILLOW	1	1
44+84	LT. 33'	10" WILLOW	1	1
44+93	LT. 33'	6" BOXELDER	1	1
44+93	LT. 33'	8" BOXELDER	1	1
44+93	LT. 33'	10" BOXELDER	1	1
45+03	LT. 33'	18" WILLOW	1	1
45+10	LT. 33'	18" WILLOW	1	1
45+35	LT. 33'	18" POPPLE	1	1
45+56	LT. 33'	4" BOXELDER	1	1
45+60	LT. 33'	4" BUCKTHORN	1	1

CLEAR & GRUB CHART

STATION	LOCATION RT./LT.	DESCRIPTION	CLEAR TREE	GRUB TREE
S.A.P. 62-646-08				
45+63	LT. 31'	4" BOXELDER	1	1
45+67	LT. 31'	4" BOXELDER	1	1
45+73	LT. 34'	4" BOXELDER	1	1
45+73	LT. 34'	6" BOXELDER	1	1
45+73	LT. 34'	8" BOXELDER	1	1
46+05	LT. 36'	5" BUCKTHORN	1	1
46+05	LT. 36'	6" BUCKTHORN	1	1
46+07	LT. 34'	(2) 4" BUCKTHORN	2	1
46+30	LT. 35'	12" WILLOW	1	1
46+35	LT. 38'	12" WILLOW	1	1
46+35	LT. 38'	20" WILLOW	1	1
46+37	LT. 37'	12" WILLOW	1	1
46+37	LT. 37'	10" WILLOW	1	1
46+43	LT. 35'	6" BUCKTHORN	1	1
46+50	LT. 39'	20" COTTONWOOD	1	1
46+59	RT. 38'	10" CEDAR	1	1
46+59	RT. 38'	8" CEDAR	1	1
46+59	RT. 38'	8" CEDAR	1	1
46+60	LT. 38'	4" BOXELDER	1	1
46+69	LT. 38'	4" BOXELDER	1	1
46+92	LT. 44'	8" WILLOW	1	1
46+98	LT. 32'	4" BOXELDER	1	1
47+11	LT. 45'	8" WILLOW	1	1
47+22	LT. 34'	4" BOXELDER	1	1
47+34	LT. 48'	4" WILLOW	1	1
47+69	LT. 48'	6" WILLOW	1	1
* 30+50	RT. 48'	10" PINE	1	1
* 30+70	RT. 48'	8" PINE	1	1
		TOTALS =	192	170

NOTE: STATIONS WITH AN (*) BEFORE THEM INDICATES TREE THAT IS TO BE REMOVED ONLY IF NECESSITATED BY CONSTRUCTION. (TO BE DETERMINED IN THE FIELD)

SILT FENCE CHART

LOCATION STATION	RT. OR LT.	SILT FENCE L.F.	REMARKS
0+50 TO 1+20	RT.	70	
2+50 TO 5+25	RT.	275	
7+00 TO 17+25	RT.	1025	
8+00 TO 9+75	LT.	175	
11+50 TO 20+75	LT.	925	
18+50 TO 22+25	RT.	375	
24+00 TO 25+75	RT.	175	
25+00 TO 26+00	LT.	100	
26+75 TO 27+75	RT.	100	
27+00 TO 29+25	LT.	225	
31+50 TO 33+25	LT.	175	
40+50 TO 49+25	LT.	875	
42+30 TO 43+25	RT.	95	
45+25 TO 47+25	RT.	200	
47+75 TO 48+25	RT.	50	
51+75 TO 52+25	RT.	50	
STRUCTURES			
AP 100		20	
CB 101		20	
CB 102		20	
AP 106A		20	
CB 111		20	
CB 112		20	
SD 113		20	
AP 114		20	
SD 16		20	
SD 135A		20	
SD 137A		20	
SD 32A		20	
AP 144A		20	
AP 145A		20	
SD 150		20	
	TOTALS =	5190	

SALVAGE & INSTALL WOODEN FENCE

LOCATION STATION	SALVAGE WOODEN FENCE L.F.	INSTALL WOODEN FENCE L.F.	REMARKS
0+61 TO 0+83 RT. 45'	20	20	
2+06 TO 2+18 LT. 45'	12	12	
2+65 TO 5+30 LT. 32'	278	278	
34+52 TO 34+76 RT. 37'	24	24	
TOTALS =	334	334	

SALVAGE & INSTALL WIRE FENCE

LOCATION STATION	SALVAGE WIRE LINK FENCE L.F.	INSTALL WIRE LINK FENCE L.F.	REMARKS
0+83 TO 1+15 RT. 45'	32	32	
2+59 TO 23+59 RT. 44'-35'	2100	2100	
7+40 TO 7+57 LT. 29'	22	22	
39+67 TO 48+81 LT. 30'-50'	914	914	
TOTALS =	3068	3068	

SALVAGE & INSTALL CHAIN LINK FENCE

LOCATION STATION	SALVAGE CHAIN LINK FENCE L.F.	INSTALL CHAIN LINK FENCE L.F.	REMARKS
7+57 TO 21+59 LT. 30'	1402	1402	
23+60 TO 25+90 LT. 29'	246	246	
39+25 TO 49+00 LT. 30'-52'	975	975	
39+46 RT. 38'-58'	20	20	
TOTALS =	2643	2643	

SALVAGE & INSTALL SIGN

LOCATION STATION	SALVAGE SIGN EACH	INSTALL SIGN EACH	REMARKS
6+80 LT. 32'	1	1	
TOTALS =	1	1	

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

REVISED 3/13/92 B.J.

EXISTING STRUCTURE CHART

STATION SECTION LINE	LOCATION SURVEY C/L	NO.	TYPE	F. & I. CASTING ASSEMBLY	ELEVATION PROFILE	ELEVATION ORIGINAL GRATE OR RING	ELEVATION NEW GRATE OR RING	ELEVATION CB,MH OR APRON INVERT	SALVAGE CASTING ASSEMBLY EACH	ADJUST CASTING ASSEMBLY EACH	RECONST. CB OR MH L.F.	INSTALL CASTING ASSEMBLY EACH	F & I R. C. PIPE SEWER 15"	18"	24"	DRAINS TO STRUCT. NO.	DRAINS TO INVERT ELEV.	REMARKS
CLEVELAND AVE. S.A.P. 62-646-08																		
0+15	LT. 15'	1	TEL		------	980.82	-----	973.57										OK
0+63	LT. 16'	2	TEL		980.39	981.12	980.13	973.0										VAULT-BY OTHERS
0+83	LT. 16'	3	TEL		980.24	981.11	979.98	973.07										VAULT-BY OTHERS
6+84	LT. 12'	4	TEL		982.32	982.63	982.15	974.53										VAULT-BY OTHERS
13+50	LT. 12'	5	TEL		979.40	979.15	979.23	971.85										VAULT-BT OTHERS
13+57	LT. 19'	6	TEL		979.30	978.85	979.02	967.90										VAULT-BY OTHERS
13+57	LT. 12'	8	TEL		979.30	979.09	979.13	971.79										VAULT-BY OTHERS
20+00	LT. 12'	9	TEL		976.65	976.84	976.48	968.64										VAULT-BY OTHERS
25+76	RT. 24'	10	GAS		982.04	982.47	982.38	973.70										BY OTHERS
26+05	RT. 68'	11	CB		982.38	983.09	-----	979.19										OK
26+51	RT. 23'	12	SAN		982.91	982.92	982.95	974.20		1								
26+52	LT. 12'	13	TEL		982.92	982.92	982.75	975.91										VAULT-BY OTHERS
26+66	RT. 42'	14	CB		983.09	983.03	983.0±	979.13		1								
26+81	RT. 27'	15	CB		983.26	982.47	------	979.47	1									REMOVE
26+85	RT. 30'	16	SD	A (1)	983.31	982.44	983.63	978.77	1							122	978.44	CONVERT TO MH
29+21	RT. 31'	17	STORM		986.08	986.42	985.6±	980.72			1.3	1						
29+37	RT. 52'	18	CB		986.27	985.81	986.3±	981.66		1								
29+53	RT. 20'	19	SAN		986.45	986.74	986.07	972.94		1								
29+64	RT. 50'	20	CB		986.58	986.33	986.7±	981.83		1								
29+90	RT. 22'	21	CB		986.89	986.32	986.39	982.47		1								
34+60	RT. 21'	22	SAN		987.88	988.12	986.92	971.37			5.6	1						BLVD. GRADE
34+73	LT. 25'	23	TEL		987.81	988.25	987.43	980.25										VAULT-BY OTHERS
37+15	RT. 22'	24	SAN		986.44	986.54	985.94	977.19		1								
38+12	RT. 24'	25	SD	A (1)	984.99	983.08	985.06	973.18	1		7.1							CONVERT TO MH
39+29	RT. 25'	26	SD	A (1)	981.48	980.64	981.6±	971.76	1		3.4							CONVERT TO MH
39+53	RT. 43'	27	CB		980.64	980.45	979.6±	977.30			1.4	1						
39+65	RT. 19'	28	SAN		980.22	980.69	979.84	969.62			9.1	1						
39+82	RT. 43'	29	CB		979.63	979.36	979.1±	975.56			2.7	1						
39+82	RT. 26'	29A	STORM		979.63	------	978.8±			1								BURIED
42+21	RT. 21'	30	SAN		971.88	971.74	971.50	963.19		1								
42+31	RT. 31'	31	SD	A (1)	971.58	967.44	971.84	960.64	1		8.9							CONVERT TO MH
42+70	RT. 30'	32	SD	A (1)	970.41	966.43	970.65	959.98	1		4.8							CONVERT TO MH
44+63	RT. 33'	33	STORM		966.69	966.82	966.5±	957.20		1								
44+63	RT. 42'	34	CB		966.69	966.34	-----	962.64	1									REMOVE
44+79	RT. 23'	35	SAN		966.60	967.55	966.18	959.30			6.0	1						
44+93	RT. 43'	36	CB		966.52	966.54	------	962.74	1									REMOVE
46+42	LT. 16'	37	TEL		967.12	968.16	967.02	960.86										VAULT-BY OTHERS
48+15	RT. 26'	38	STORM		968.59	969.58	968.85	961.88		1								
48+57	RT. 20'	39	SAN		968.94	969.18	969.02	958.08		1								
51+20	LT. 50'	40	TEL		971.18	971.57	971.38	963.72										VAULT-BY OTHERS
51+34	LT. 50'	41	TEL		971.30	971.77	971.50	960.42										VAULT-BY OTHERS
52+20	LT. 60'	42	TEL		972.03	972.07	972.3±	963.57										VAULT-BY OTHERS
52+21	RT. 112'	43	TEL		972.04	971.38	------	959.88										OK
52+36	RT. 21'	44	SAN		972.17	971.59	------	956.89										OK
52+44	RT. 110'	45	TEL		------	971.05	------	961.62										OK
52+47	LT. 80'	46			------	972.46	------	963.86										OK
52+81	RT. 22'	47	SAN		------	971.34	------	956.44										OK
31+86	RT. 22'	19A	SAN		989.15	987.8+	988.8+	972.18			6.5	1						BURIED
		SUBTOTALS		5					8	12	56.7	7						

(1) SEE SHEET 7 FOR LIST OF CASTING DESCRIPTIONS.

ADJUST CURB STOP BOX

LOCATION STATION	ADJUST CURB STOP		REMARKS
1 CURB STOP AT EVERY HOUSE AT R/W AFFECTED BY CONSTRUCTION LIMITS			
	EACH		
31+50 RIGHT	1		
32+55 LEFT	1		
34+55 RIGHT	1		
35+65 RIGHT	1		
36+50 RIGHT	1		
37+20 RIGHT	1		
38+50 RIGHT	1		
47+88 RIGHT	1		
TOTALS =	8		

NOTES:

ALL WORK ON CITY OWNED UTILITIES SHALL BE IN ACCORDANCE WITH APPROPRIATE CITY UTILITY SPECIFICATIONS

ADJUST VALVE BOX

LOCATION STATION	ADJUST VALVE BOX	EXISTING ELEV.	PROFILE GRADE	NEW ELEV.	LOCATION STATION	ADJUST VALVE BOX	EXISTING ELEV.	PROFILE GRADE	NEW ELEV.
	EACH					EACH			
26+65 LT. 30	1	982.3±	983.08	982.5±	37+68 LT. 48'	1	986.3±	985.8±	985.8±
26+70 LT. 18'	1	982.7±	983.14	982.84	44+90 RT. 33'	1	968.0±	966.5±	967.6±
26+75 LT. 22'	1	982.6±	983.20	982.82	52+38 LT. 80'	1	971.8±		972.2±
29+75 RT. 53'	1	986.3±	986.70	987.0±					
34+32 LT. 20'	1	989.1±	988.04	987.7±					
34+68 LT. 47'	1	989.1±	987.84	987.0±					
39+27 LT. 17'	1	983.1±	981.55	981.2±					
39+59 RT. 50'	1	979.8±	980.5±	979.4±					
TOTALS =	11								

ADJUST IRRIGATION PIPE

LOCATION STATION	INPLACE ITEM	ADJUST IRRIGATION PIPE	REMARKS
		L.F.	
4+00 TO 9+00 RT. 42'-45'	3" GALVANIZED PIPE	500	
9+00 TO 20+25 RT. 40'	4" P.E. PIPE	1125	
	TOTALS =	1625	

ADJUST GAS VALVE BOX

LOCATION STATION	RT. OR LT.	ADJUST GAS VALVE	REMARKS
		EACH	
34+55	LT. 43'	1	
39+77	RT. 32'	1	
	TOTALS =	2	

HYDRANT CHART

LOCATION STATION	RELOCATE HYDRANT	F & I 6" GV. & BOX	REMARKS
	EACH	EACH	
26+75 LT. 30'			ADJUST
29+70 RT. 38'	1	1	
31+10 LT. 24'	1	1	
34+85 LT. 48'			ADJUST
39+93 RT. 30'	1	1	
44+55 RT. 48'			ADJUST
TOTALS =	3	3	

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93
28-131

REVISED 3/13/92 B.J.
REVISED 3/26/92 DM

PROPOSED DRAINAGE CHART SEE PLAN & PROFILE FOR ASBUILTS

STATION	LOCATION	NO.	TYPE	DESIGN	CASTING ASSEMBLY	ELEVATION PROFILE	ELEVATION NEW GRATE OR RING	ELEVATION CB, MH, OR APRON INVERT	F & I R.C. PIPE SEWER 15"	18"	24"	DRAINS TO STRUCTURE NO.	DRAINS TO INVERT ELEV.	REMARKS
CLEVELAND AVENUE S.A.P. 62-646-08														
0+50	LT. 46'	100	APRON	24"		980.45	------	978.1±			10		978.08	MAKE SUITABLE CONNECTION
														F & I TRASH GUARD
1+80	LT. 34.5'	101	CB	LP4	C	979.86	979.65	975.18	66			102	974.86	
1+80	RT. 31'	102	CB	LP4	C	979.86	979.99	974.76	365			103	973.68	
① 5+45	RT. 26.8'	103	CB	SP2 LP4 48-4020	C B	981.62	981.62	973.53		365		106	972.45	
① 5+45	LT. 26.8'	104	CB	SP2 LP4 48-4020	C B	981.62	981.60	975.90	50 54			103	975.66	
		105												
① 9+10	RT. 27'	106	MH	A OR F 48-4020	A	982.35	982.47	972.30		190		108	971.74	
9+10	LT. 43'	106A	APRON	15"		982.35	0.82	977.76	64			106	977.42	F & I TRASH GUARD
11+00	LT. 25.5'	107	CB	LP4 SP2	C B	981.40	981.43	976.76	48 54			108	976.50	
11+00	RT. 25.5'	108	CB	SP2 LP4-48-4020	C B	981.40	981.43	971.59		275		110	970.78	
13+75	LT. 25.5'	109	CB	LP4 SP2	C B	979.02	979.05	974.26	48 54			110	974.00	
13+75	RT. 25.5'	110	CB	SP2 LP4-48-4020	C B	979.02	979.05	970.65			288	111	969.84	
16+63	RT. 25.5'	111	CB	LP4	C	974.90	974.93	969.69			288	116	968.76	
16+63	LT. 25.5'	112	CB	LP4	C	974.90	974.93	970.26	54			111	970.00	
17+00	LT. 39'	113	SD	C OR G	D	974.90	973.0±	970.66	40			112	970.42	
19+50	LT. 43'	114	APRON	15"		976.40	------	972.00	14			115	971.90	
19+50	LT. 23.5'	115	CB	SP-2 60"	B	976.40	975.99	971.58	48			116	971.33	
① 19+50	RT. 23.5'	116	CB	SP2-60-4020	B	976.40	975.99	968.69			56	117	968.39	
19+31	RT. 83'	117	APRON	24"		976.31	------	968.39				OUTLET		F & I TRASH GUARD & RIPRAP
① 22+90	LT. 23.5'	118	CB	SP-2 48-4020	B	978.71	978.39	972.92	48			119	972.67	
① 22+90	RT. 23.5'	119	CB	SP-2 48-4020	B	978.71	978.39	970.44	340			116	968.76	
26+85	RT. 32'	16	SD					978.77		13		122	978.44	
26+94	RT. 23.5'	122	CB	SP-2	B	983.42	983.01	978.28		16		125	978.22	
26+94	LT. 42'	123	APRON	18"		983.42	------	977.68				OUTLET		F & I TRASH GUARD & RIPRAP
① 26+94	LT. 23.5'	124	CB	SP-2 48-4020	B	983.42	983.01	977.77		14		123	977.68	
26+94	RT. 8'	125	MH	48-4020	A	983.42	983.28	978.06		32		124	977.93	
① 28+89	LT. 23.5'	126	CB	SP-2 48-4020	B	985.70	985.73	980.47	34			127	980.32	
28+89	RT. 8'	127	MH	48-4020	A	985.70	985.56	980.12	195			125	979.16	
① 28+89	RT. 23.5'	128	CB	SP-2 48-4020	B	985.70	985.73	980.39	18			127	980.32	
29+31	RT. 31'	17	MH			986.19	986.42	980.72	30			128	980.59	
① 34+10	RT. 23.5'	129	CB	SP-2 48-4020	B	988.16	987.75	982.02	16			131	981.95	
① 34+10	LT. 23.5'	130	CB	SP-2 48-4020	B	988.16	987.75	982.08	32			131	981.95	
34+10	RT. 8'	131	MH	48-4020	A	988.16	988.02	981.75	265			133	979.14	
① 36+75	LT. 23.5'	132	CB	SP-2 48-4020	B	986.68	986.27	980.57	32			133	980.44	
36+75	RT. 8'	133	MH	48-4020	A	986.68	986.74	978.79	137			135	977.46	
① 36+75	RT. 23.5'	134	CB	SP-2 48-4020	B	986.68	986.27	980.44	16			133	980.37	
38+12	RT. 8'	135	MH	48-4020	A	984.99	984.85	977.26	19			25	977.11	
38+12	RT. 42'	135A	AP	15"		984.99	------	984.0±	12			25	979.50	F & I TRASH GUARD
① 39+18	LT. 23.5'	136	CB	SP-2 48-4020	B	981.86	981.45	975.58	48			137	975.36	
① 39+18	RT. 23.5'	137	CB	SP-2 48-4020	B	981.86	981.45	975.12	12			26	975.08	
[illegible]														
42+31	LT. 23.7'	138	CB	SP-2	B	971.57	971.16	966.46	48			139	966.24	
① 42+31	RT. 23.5'	139	CB	SP-2 48-4020	B	971.57	971.16	966.04	8			31	966.00	
42+75	RT. 48'	32A	SD	C OR G	D	970.25	967.1±	962.50	17			32	962.37	
44+25	LT. 28.5'	140	CB	SP-2	B	967.08	966.67	961.76	51			141	961.53	
① 44+25	RT. 23.5'	141	CB	SP-2 48-4020	B	967.08	966.67	961.29	39			33	961.18	
① 44+63	RT. 60'	142	CB	SP-2 48-4020	B	966.71	966.5±	957.2±						BUILD OVER EX. 15" RCP
① 44+92	RT. 60'	143	CB	SP-2 48-4020	B	966.53	966.5±	960.55	30			142	960.25	
45+28	RT. 25.5'	144	CB	LP4	C	966.44	966.47	962.68	78			144B	962.45	
45+28	LT. 33.1'	145	CB	LP4	C	966.44	966.47	962.88	59			144	962.70	
① 46+06	RT. 27'	144B	MH	A OR F 48-4020	A	966.81	966.9±	962.41	149			147	962.11	
46+06	RT. 47.5'	144A	APRON	15"		966.81	-----	964.0±	14			144B	963.40	F & I TRASH GUARD
46+19	LT. 44'	145A	APRON	18"		966.92	------	962.50		121		146	962.25	
① 47+55	LT. 36.75'	146	CB	SP-2 48-4020	B	968.08	967.44	962.23		60 56		147	962.11	
① 47+55	RT. 17.75'	147	CB	SP-2 48-4020	B	968.08	967.44	962.08		60		38	961.88	
① 50+50	RT. 12.9'	148	CB	SP-2 48-4020	B	970.60	970.10	965.05	235			38	962.74	
50+50	LT. 44.1'	149	CB	SP-2	B	970.60	970.10	965.52	57			148	965.25	
50+50	LT. 60'	150	SD	C OR G	D	970.60	969.0±	965.68	16			149	965.62	
								TOTALS =	2862 52	1142 16	642			

CASTING ASSEMBLY: A = RING CASTING MN/DOT NO. 700-7, STANDARD PLATE NO. 4101 C
COVER CASTING MN/DOT NO. 716, STANDARD PLATE 4110 E
B = NEENAH 3067V OR EQUIVALENT, SEE DETAIL SHEET 12

C = RING CASTING MN/DOT NO. 790-2 (MOD.), STANDARD PLATE NO. 4108
COVER CASTING MN/DOT NO. 712, STANDARD PLATE 4110 E
D = RING CASTING MN/DOT NO. 700-7, STANDARD PLATE NO. 4101 C
GRATE CASTING MN/DOT NO. 720, STANDARD PLATE NO. 4140 D

SAWCUT BITUMINOUS PAVEMENT

LOCATION STATION	SAWCUT BITUMINOUS PAVEMENT L.F.	REMARKS
ENTRANCES		
7+14 TO 7+38 LT. 50'	24	
29+42 LT.	10	
30+50 LT.	12	
30+90 LT.	24	
31+20 LT.	24	
32+39 RT.	9	
32+74 LT.	9	
34+97 RT.	11	
36+33 RT.	10	
36+90 RT.	9	
37+21 RT.	12	
37+85 RT.	16	
38+83 RT.	12	
41+75 TO 41+99 RT.	24	
47+35 RT.	12	
48+21 RT.	13	
[illegible]	-	
SUBTOTAL ENT.	231	
[illegible]		
ROADWAYS		
ROSELAWN		
26+10 TO 26+60 LT. 59'	44	
26+10 TO 26+60 RT. 59'	44	
LOREN RD		
29+40 TO 29+64 RT. 69'	24	
ROSEWOOD		
34+45 TO 34+75 LT. 69'	30	
SKILLMAN		
37+43 TO 37+71 LT. 69'	28	
39+54 TO 39+78 RT. 69'	24	
ELDRIDGE		
44+65 TO 44+93 RT. 69'	28	
CO RD B		
52+27 TO 52+37	122	
SUBTOTAL ROADWAY	344	
BIT. PATHS (3 ea.)	18	
PROJECT TOTALS =	593	

SAWCUT CONCRETE PAVEMENT

LOCATION STATION	SAWCUT CONCRETE PAVEMENT L.F.	REMARKS
LARP. AVE.		
0+30 RT. TO LT.	140	
ROSELAWN AVE. E & W	12	CURB & GUTTER
CO. RD. B	3	CURB & GUTTER
TOTALS =	155	

REMOVE CURB & GUTTER

STATION	LOCATION	REMOVE CURB & GUTTER LIN. FT.	REMARKS
0+30 TO 0+62	RT. 68'	47	LARP. RADIUS
0+30 TO 0+62	LT. 68'	47	LARP. RADIUS
0+50 TO 3+25	MEDIAN	410	
25+65 TO 27+00	RT. 60'	110	ROSE. RADIUS
25+65 TO 27+00	LT. 60'	110	ROSE. RADIUS
51+05 TO 52+05	MEDIAN	215	
	TOTALS =	939	

REMOVE R.C. PIPE SEWER

STATION	LOCATION	REMOVE R.C. PIPE SEWER LIN. FT.	REMARKS
26+85	RT. 32' TO LT. 44'	76	
26+85 TO 29+21	RT. 32' TO RT. 31'	235	
44+63 TO 44+93	RT. 33' TO RT. 43'	32	
46+50 TO 48+15	LT. 31' TO RT. 26'	170	
	TOTALS =	513	

REMOVE MH, CB, & SD

STATION	STRUCTURE NUMBER	REMOVE MH, CB, OR SD EACH	REMARKS
26+81	CB 15	1	
44+63	CB 34	1	
44+93	CB 36	1	
	TOTALS =	3	

REMOVE CONCRETE PAVEMENT

LOCATION STATION	REMOVE CONCRETE PAVEMENT S.Y.	REMARKS
0+30 TO 0+62 RT. 68'	165	
0+30 TO 0+62 LT. 68'	165	
TOTALS =	330	

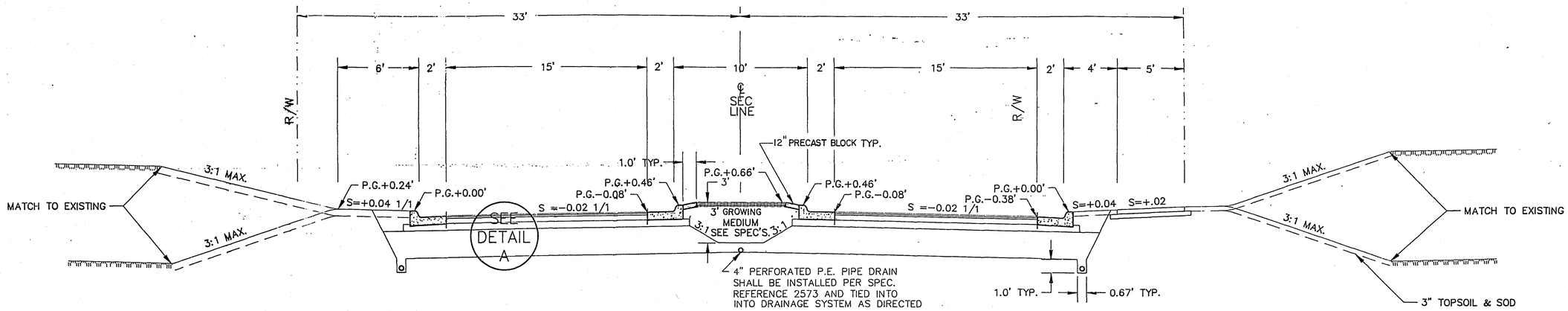
REMOVE STONE RETAINING WALL

LOCATION STATION	REMOVE STONE RET. WALL S.F.	REMARKS
29+70 TO 30+05 LT. 26'	60	
TOTALS =	60	

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MK
DATE: 12-17-93

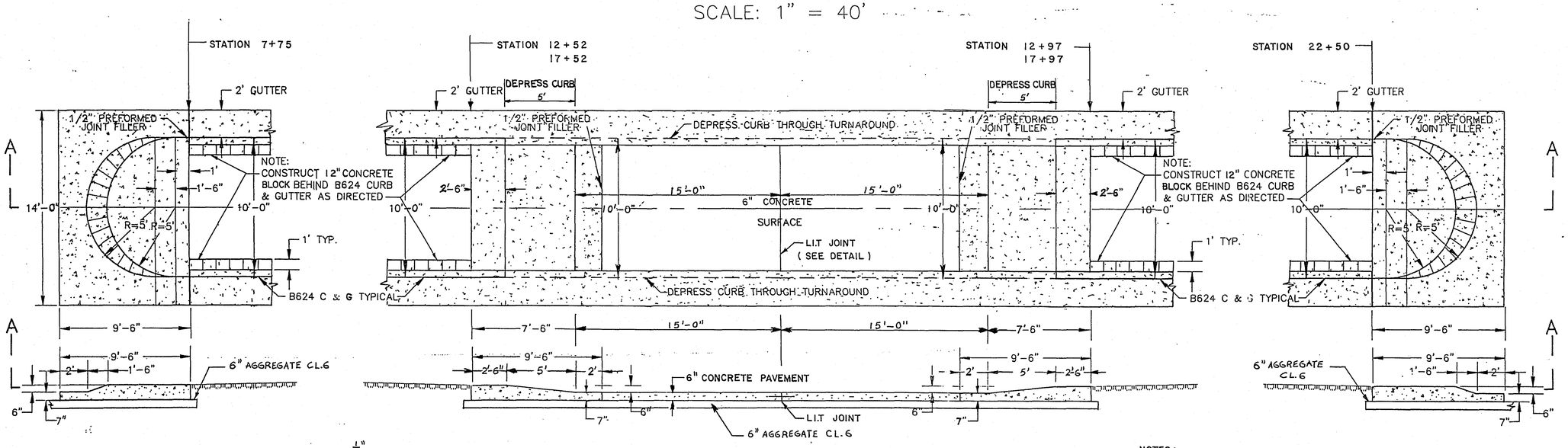
28-131

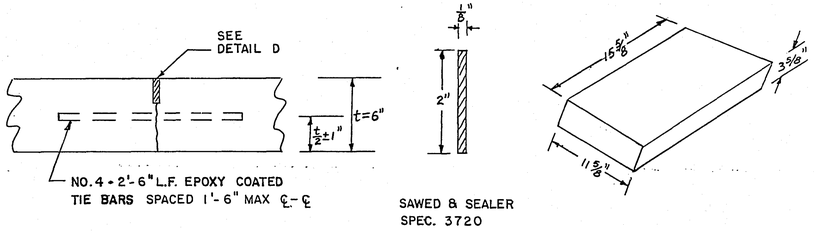
REVISED 3/13/92 B.J.
REVISED 3/31/92 DM
REVISED 8/11/92 B.J.
① REVISED 5/10/92 B.J.



2 LANE ALTERNATE WITH 10' PLANTED MEDIAN

SCALE: 1" = 40'





DETAIL D 12" PRECAST BLOCK

L.I.T JOINT DETAIL

MEDIAN NOSE DETAIL

SCALE: 1" = 40'

NOTES:

- B624 C & G SHALL BE PAID FOR BY L.F., SPEC. 2531, MEASURED CONTINUOUS THROUGH TURN-AROUND.
- MEDIAN NOSES SHALL BE PAID FOR BY THE C.Y. AS ITEM NO. 2531.511 CONCRETE MEDIAN NOSE, WHICH SHALL BE PAYMENT IN FULL FOR ALL WORK & MATERIALS REQUIRED.
- 6" CONCRETE PAVEMENT IN CROSS-OVERS SHALL BE PAID FOR AS 6" CONCRETE DRIVEWAY PAVEMENT WHICH SHALL INCLUDE ALL WORK & MATERIALS NECESSARY FOR THE L.I.T JOINT CONSTRUCTION.
- 12" PRECAST CONCRETE BLOCK, SHALL BE PAID FOR AS ITEM NO. 0412.604 PRECAST CONCRETE BLOCK, BY THE S.F., WHICH SHALL BE PAYMENT IN FULL FOR ALL WORK & MATERIALS NECESSARY TO INSTALL BLOCKS PER DETAILS IN PLAN. BLOCKS SHALL BE RED IN COLOR.

REVISED 9-28-92 B.J.

28-131

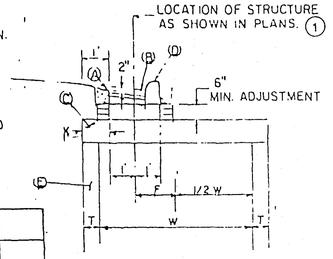
S.A.P. NO. 62-646-08 SHEET 8 R OF 41 SHEETS

AS BUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

CATCH BASIN DESIGN SP2-W"-4020

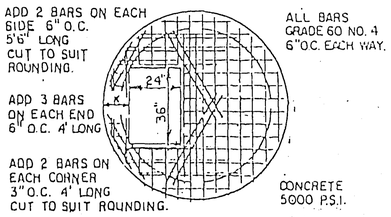
NOTES:

(A) ELEVATION OF STRUCTURE COMPUTED AT THIS LOCATION.
(B) NORMAL GUTTER GRADE.
(C) SEE COVER DETAIL.
(D) CASTING ASSEMBLY - SEE DETAIL FOR DESIGN SP-2
(E) CATCH BASIN - DESIGN 4020 SEE STD PL NO. 4020.



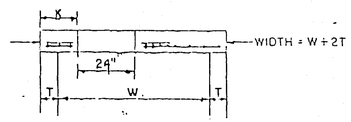
STRUCTURE DIMENSION CHART

W	48"	54"	72"	
K	14"	14"	13"	
F	3"	7"	18"	



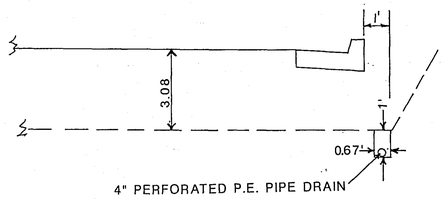
NOTES

(1) CENTER OF STRUCTURE FOR STAKING PURPOSES SHALL BE LOCATION OF STRUCTURE AS SHOWN IN PLANS, PLUS DISTANCE F.



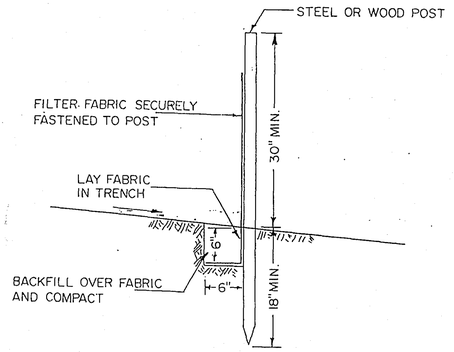
CATCH BASIN COVER SLAB

4" P.E. DRAIN PIPE DETAIL



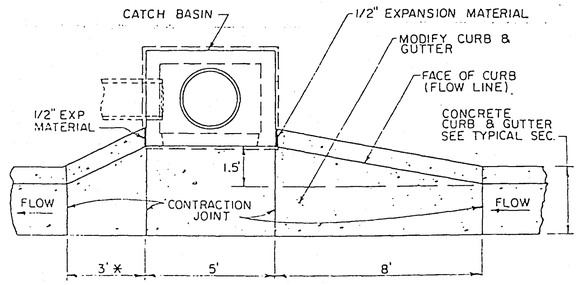
4" PERFORATED P.E. PIPE DRAIN SHALL BE INSTALLED PER SPEC. REFERENCE 2573

SILT FENCE DETAIL

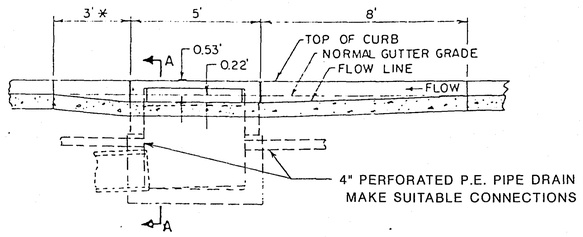


SILT FENCE SHALL BE INSTALLED PER SPEC. REFERENCE 2573

CURB OPENING CATCH BASIN - DESIGN LP INSTALLATION DETAIL

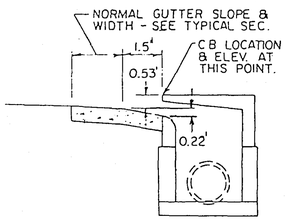


PLAN VIEW



ELEVATION (AT FLOW LINE)

4" PERFORATED P.E. PIPE DRAIN SHALL BE INSTALLED PER SPEC. REFERENCE 2502



SECTION A-A

NOTES:

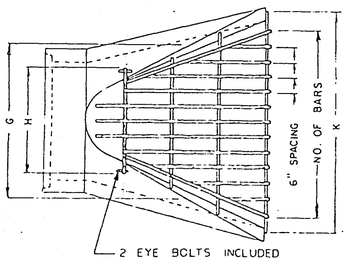
* DIMENSION SHALL BE 8' WHEN STRUCTURE INSTALLED AT LOW POINT IN GRADE

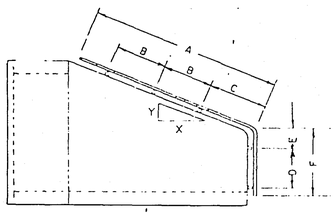
CATCH BASIN - DESIGN LP - SEE MN/DOT STD. PL. NO. 4021

TOP OF CATCH BASIN SHALL BE INSTALLED AT SAME SLOPE AS BLVD. GRADES AND TOP OF CURB GRADE . EACH SIDE OF STRUCTURE.

ELEVATION OF STRUCTURE IS COMPUTED AT LOCATION SHOWN IN SEC. A-A AT ℄ OF C.B. OPENING.

3/4" BARS FOR TRANSVERSE AND EDGE REINFORCEMENT





1/2" BARS FOR LONGITUDINAL INTERIOR BARS, WELD EACH INTERSECTION.

CONTRACTOR SHALL FURNISH SUITABLE LOCKING DEVICE APPROVED BY ENGINEER.

SIZE	NO. OF BARS	X-Y SLOPE	A	B	C	D	E	F	G	H	K
12"	5	3 to 1	24	7	6	5	2	8	24		30
15"	6	"	24	7	6	6	2	10	26		34
18"	7	"	24	7	6	6	3	12	28		40
21"	5	"	36	11	10	7	3	12	34		50
24"	9	"	44	14	12	10	4	16	36		52
27"	10	"	50	16	14	10	4	16	38		58
30"	11	"	56	18	16	12	4	18	42		64
36"	13	"	64	20	20	12	4	18	48		76
42"	15	"	68	22	20	16	8	26	60		88
48"	16	"	76	24	24	14	10	28	62		92
54"	17	2.4 to 1	76	24	24	16	12	32	68		96

TRASH GUARD (GALVANIZED)
(FOR CONCRETE APRON)

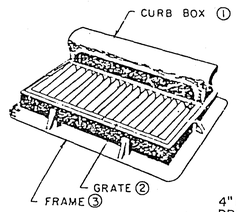
CASTING ASSEMBLY
(FOR DESIGN SPECIAL 2 CATCH BASIN)

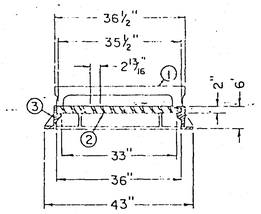
NOTES

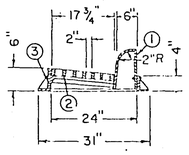
MATERIALS CAST GRAY IRON, CLASS 30, MN/DOT SPEC REFERENCE 3321

CURB BOX HEIGHT SHALL BE ADJUSTABLE 6" TO 9"

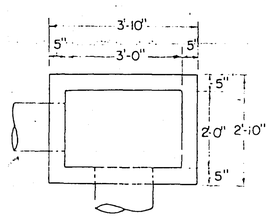
SEE CATCH BASIN-DESIGN SPECIAL 2 DETAIL FOR CASTING INSTALLATION DETAIL.



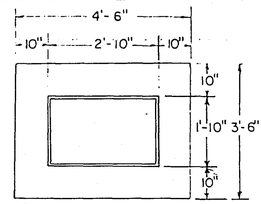




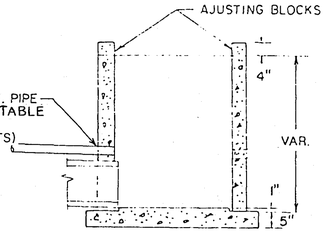
CATCH BASIN - DESIGN SP-2



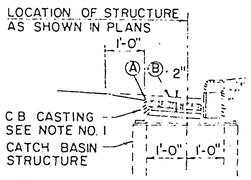
CATCH BASIN PLAN



BASE SLAB PLAN



SECTIONAL VIEW
CATCH BASIN & BASE SLAB



(A) ELEVATION OF STRUCTURE COMPUTED AT THIS LOCATION
(B) NORMAL GUTTER GRADE

INSTALLATION DETAIL

4" PERFORATED P.E. PIPE DRAIN SHALL BE INSTALLED PER SPEC. REFERENCE 2502

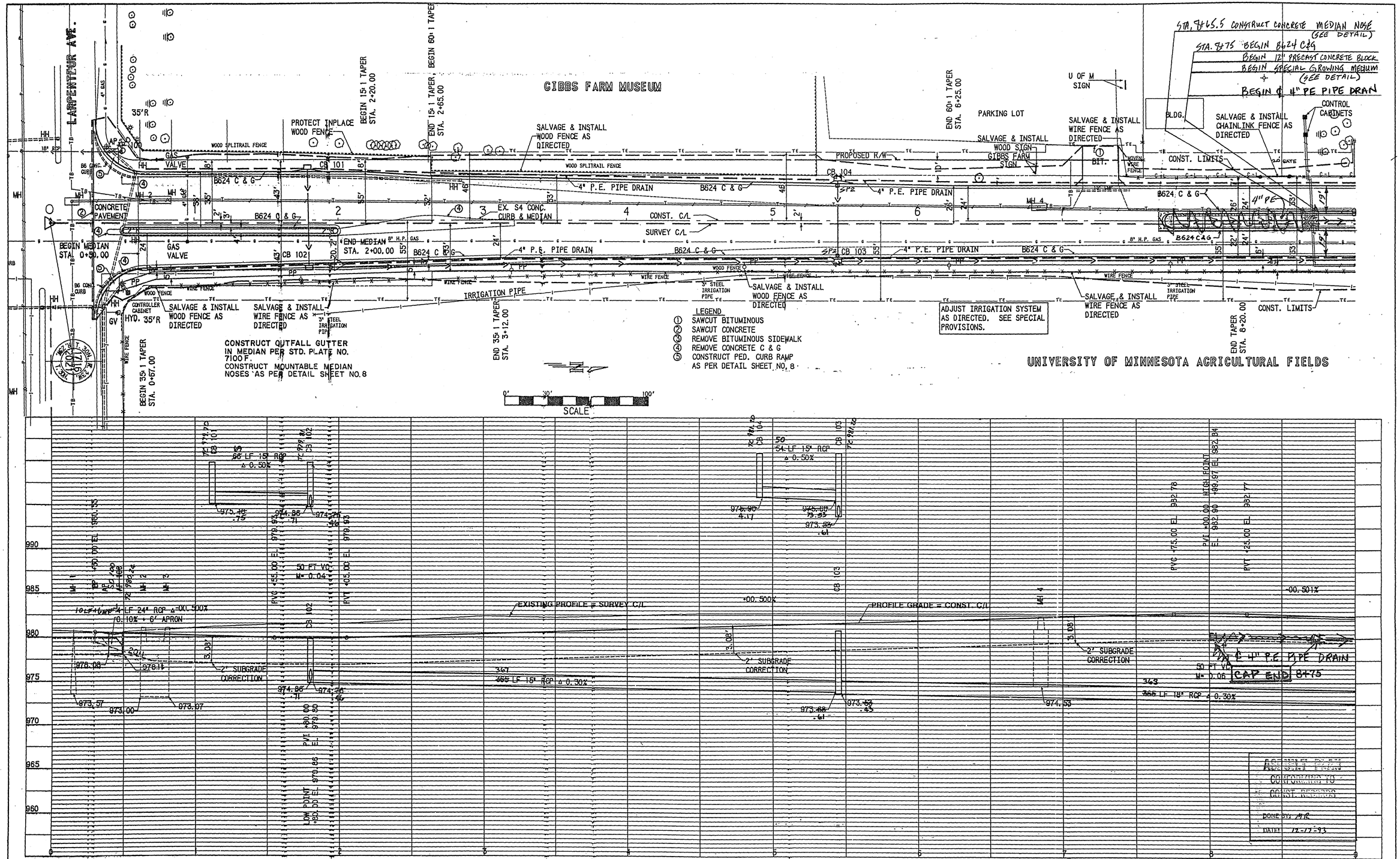
NOTES

1. TO BE USED WITH NEENAH R-3067-V OR EQUAL.
2. PIPE CUT-OUTS, TO BE LOCATED WHERE REQUIRED.
3. ALTERNATE CAST-IN-PLACE BASE SLAB CAN BE USED.
4. INSTALL AS PER MN/DOT STANDARD PLATE NO. 7111
5. REINFORCEING: SINGLE LINE STEEL WIRE FABRIC.
   WALL = W3.5 X W3.0 HAVING AN AREA OF NOT LESS THAN .21 SQ. IN. PER FOOT OF HEIGHT.
   BASE = W4.0 X W4.0 HAVING AN AREA OF NOT LESS THAN .16 SQ. IN. PER FOOT OF HEIGHT.
6. ALTERNATE CONSTRUCTION - THE CATCH BASIN MAY BE CONSTRUCTED OF BLOCKS OR BRICKS CONFORMING TO THE REQUIREMENTS OF MN/DOT SPEC. 2506 AND AS DIRECTED BY THE ENGINEER.

ASBUILT PLAN CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

STORM SEWER DETAILS

28-131



PROJECT=CLEVLND ALT= 1 REV= 1 SSR=GRID FORM=FORMAT1 DATE= 2/27/1992

REVISED 4/24/92 DM REVISED 8/11/92 B.P. & B.J REVISED 9/28/92 BJ (MEDIAN) 28-131

S.A.P. 62-646-08 SHEET ~~10~~ 10R2 OF 41 SHEETS

UNIVERSITY OF MINNESOTA INTRA-MURAL BALL FIELDS

STA. 12+52 END B624 C&G
END 12" PRECAST CONC. BLOCK
END GROWING MEDIUM
CONSTRUCT CONCRETE MEDIAN NOSE

DEPRESS B624 C&G THROUGH TURNAROUND
CONSTRUCT 6" CONCRETE PVMT. WITH LIT JOINT

STA. 12+87.5 CONSTRUCT CONC. MEDIAN NOSE

STA. 12+97 BEGIN B624 C&G
BEGIN 12" PRECAST BLOCK
BEGIN GROWING MEDIUM
BACKSTOP

L.P. TANK

ELECT. TRANSFORMER

VERIFY LOCATION OF WATER SERVICE PRIOR TO EXCAVATION

MAKE SUITABLE CONNECTION TO ~~15" RCP~~ CB 108

MAKE SUITABLE CONNECTION TO ~~15" RCP~~ CB 111

STA. 17+52 END B624 C&G
END 12" PRECAST BLOCK
CONSTRUCT CONCRETE MEDIAN NOSE
END GROWING MEDIUM

DEPRESS B624 C&G THROUGH TURNAROUND

UNIVERSITY O

STA. 17+87.5 CONSTRUCT CONCRETE MEDIAN NOSE
STA. 17+97 BEGIN B624 C&G
BEGIN 12" PRECAST BLOCK
BEGIN GROWING MEDIUM

SD AP 106A

CONST. LIMITS

SALVAGE & INSTALL CHAINLINK FENCE AS DIRECTED

B624 C & G

CB 107 SP2

GAS VALVE

4" P.E. PIPE DRAIN

MEDIAN

CONST. C/L

SURVEY C/L

MH 105

8" H.P. C/S

4" P.E. DRAIN

CLEVELAND AVE.

CB 108 SP2

MH 5

MH 6

MH 8

1/4 1/4 STA. 13+17.04

CB 109 SP2

CB 110 SP2

CB 112

CB 111

SD 113

WOVEN WIRE FENCE

4" PE IRRIGATION PIPE

1 1/2" GALV. WATER PIPE & SHUTOFF

GATE

BARBED & WOVEN WIRE FENCE

SALVAGE & INSTALL WIRE FENCE AS DIRECTED

PROPOSED 5' CONC. WALK

SALVAGE & INSTALL STEEL GATE AS DIRECTED

ADJUST IRRIGATION SYSTEM AS DIRECTED. SEE SPECIAL PROVISIONS.

CONSTRUCT 6" CONC. PVMT. WITH LIT JOINT

SEE SHEET NO. 16 FOR POND

AGRICULTURAL FIELDS

LEGEND
1. SAWCUT BITUMINOUS
2. SAWCUT CONCRETE
3. REMOVE BITUMINOUS SIDEWALK
4. REMOVE CONCRETE C & G
5. CONSTRUCT PED. CURB RAMP AS PER DETAIL SHEET NO. 8

WATER FOUNTAIN

SCALE 0' 30' 100'

64 LF 15" RCP Δ 0.50% + 6' APRON

51 LF 15" RCP Δ 0.50%

190 LF 18" RCP Δ 0.30%

275 LF 18" RCP Δ 0.30%

280 LF 24" RCP Δ 0.30%

50 LF 15" RCP Δ 0.50%

54 LF 15" RCP Δ 0.50%

EXISTING PROFILE = SURVEY C/L

PROFILE GRADE = CONST. C/L

-01.499%

+00.500%

2' SUBGRADE CORRECTION

MAKE SUITABLE CONNECTION

CAP END

50 FT VC M= 0.08

50 FT VC M= 0.12

PVC +25.00 EL 975.27

PVI +75.00 EL 990.82

PVI +75.00 EL 975.03

PVI +50.00 EL 974.99

LOW POINT +62.49 EL 974.99

CB 111

CONFORMED TO CONST. RECORDS

DONE BY: MK

DATE: 12-17-93

REVISED 3/13/92 B.J.

REVISED 8/11/92 B.J

REVISED 9/28/92 BJ (MEDIAN)

28-131

S.A.P. NO. 62-646-08

SHEET ~~11~~ 11R2 OF 41 SHEETS

UNIVERSITY OF MINNESOTA GOLF COURSE

STA 22+50 END B624 C&G
END 12" PRECAST CONCRETE BLOCK
END SPECIAL GROWING MEDIUM
CITY OF FALCON HEIGHTS
CONSTRUCT CONCRETE MEDIAN NOSE
END 4" PE PIPE DRAIN

BEGIN WALL 22+05
END WALL 23+94

PRECAST MASONRY RETAINING WALL DETAIL SHEET NO.8

SCALE 0' 30' 100'

MAKE SUITABLE CONNECTION TO ~~18" RCP~~ CB116

CONST. LIMITS
SALVAGE & INSTALL CHAINLINK FENCE AS DIRECTED
PROTECT
RADIO TOWER ANCHOR
P.I. STA. 25+72 CONST. C/L
LT. 2' SECTION LINE
Δ = 00° 25' 37" RT.
EXISTING 8' BIT. PATH
ROSELAWN AVE.
CITY OF ROSEVILLE
15" S.E.
15" DRAIN PIPE

AP 114
CB 115
MH 9
B624 C & G
4" P.E. PIPE DRAIN
CONST. C/L
SURVEY C/L
8" H.P. GAS
CB 116
CB 118
CB 119
MEDIAN
MEDIAN NOSE
CLEVELAND AVE
CONST. C/L
SURVEY C/L
1/4 CORNER STA. 26+33.67
DEFLECTION = 00°06' 13" LT
MH 10
G.V.
MH 13
MH 12
CB 15
CB 122
CB 14
SD 16
CB 11
PROTECT
35'R
15T
16T
BARBED & WOVEN WIRE FENCE
WATER PIPE & SHUTOFF
SALVAGE & INSTALL WIRE FENCE AS DIRECTED
PROPOSED 5' CONC. WALK
AP 117
SEE SHEET NO. 16 FOR POND
ADJUST IRRIGATION SYSTEM AS DIRECTED. SEE SPECIAL PROVISIONS.
FALCON HEIGHTS COMMUNITY PARK
315'
145'
878
880
CONSTRUCTION LIMITS
EXISTING 5' BIT PATH
66'

LEGEND
1. SAWCUT BITUMINOUS
2. SAWCUT CONCRETE
3. REMOVE BITUMINOUS SIDEWALK
4. REMOVE CONCRETE C & G
5. CONSTRUCT PED. CURB RAMP AS PER DETAIL SHEET NO. 8
6. REPLACE BIT. PATH WITH 2" 2331 WEAR, 2" 2331 BASE, AND 4" AGG. BASE CL.6

P.I. STA. 26+82 CONST. C/L
LT. 1' SECTION LINE
Δ = 00° 31' 50" LT.

14 LF 15" RCP Δ 0.50% + 6' APRON
47
48 LF 18" RCP Δ 0.52%
60
286 LF 24" RCP Δ 0.30%
340 LF 15" RCP Δ 0.50%
30 LF 15" RCP Δ 0.52%
14 LF 18" RCP Δ 0.50% + 6' APRON
32 LF 18" RCP Δ 0.41%
15 LF 18" RCP Δ 0.50%
15 LF 15" RCP Δ 2.50%
PVC +75.00 EL 977.52
PVT +25.00 EL 977.94
50 FT VC M= 0.04
PVC +100.00 EL 977.68
+00.500%
+01.169%
3.00%
2' SUBGRADE CORRECTION
CMP END
CAP END
4" P.E. PIPE DRAIN
MAKE SUITABLE CONNECTION

REVISED 3/13/92 B.J.
REVISED 3/26/92 DM
REVISED 4/24/92 DM
REVISED 9/28/92 BJ (MEDIAN)

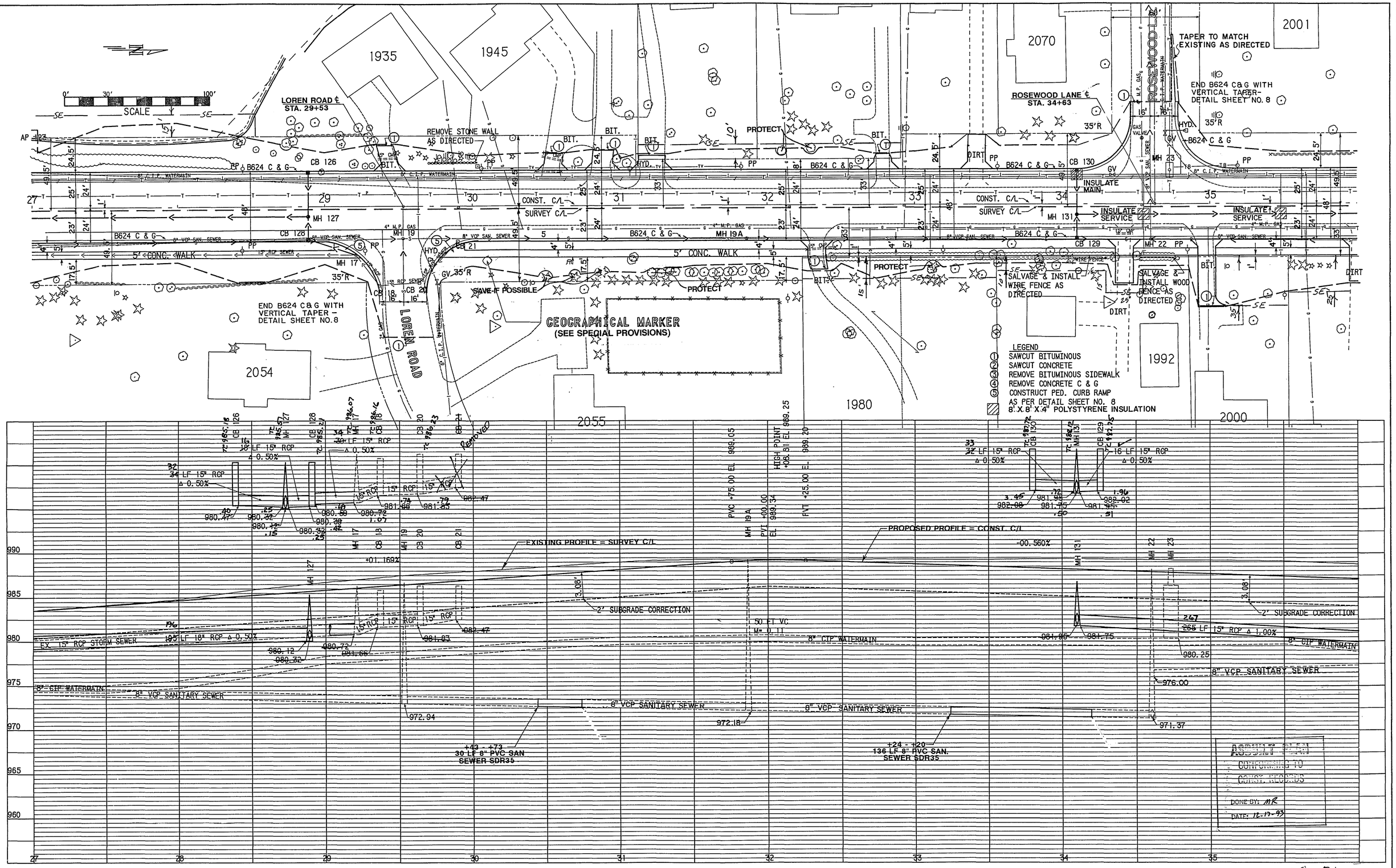
CONTRACTOR TO CONST. AS DONE BY: MK DATE: 12-17-93

28-131

S.A.P. NO. 62-646-08

SHEET ~~12~~ 12R2 OF 41 SHEETS

PROJECT-CLEVLND ALT-1 REV-1 SGR-GRID FORM-FORMAT1 DATE-2/10/1992



REVISED 3/13/92 B.J.
REVISED 3/26/92 DM

RECEIVED
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

S.A.P. NO. 62-646-08

SHEET 13 OF 41 SHEETS

PROJECT=CLEVLND ALT=1 REV=1 SGR=GRID FORM=FORMAT1 DATE="2/18/1992

SKILLMAN AVE. ℄ STA. 37+57

SKILLMAN AVE. ℄ STA. 39+65

P.I. STA. 40+00.00
Δ = LT. 00° 28' 39"

P.I. STA. 39+80 LT. 1'
Δ = 00° 28' 39" RT.

BEGIN 40:1 TAPER STA. 42+25.00

ELDRIDGE AVE. ℄ STA. 44+79

SCALE 0' 30' 100'

END B624 C&G WITH VERTICAL TAPER– DETAIL SHEET NO.8

SKILLMAN AVE.

CLEVELAND AVE.

ELDRIDGE AVE.

BRK. PLANTER

2068 2069 2014 2024 2034 2074

+60 BEGIN 12" D.I.P. WATER MAIN
REMOVE 12" C.I.P. WATER MAIN
CONNECT TO EXISTING 12" C.I.P.

+50 BEGIN BYPASS PUMPING FOR SAN. SEWER

+95 REPLACE WATER SERVICE-60 LF
PROVIDE TEMPORARY WATER SERVICE

+55 REPLACE SAN. SEWER SERVICE-30 LF
CONNECT TO EXISTING SAN. SERVICE

REMOVE 6" C.I.P. WATER MAIN
6" D.I.P. WATER MAIN-32 LF
CONNECT TO EXISTING 6" C.I.P.

8" PVC SAN. SEWER-130 LF 10" PVC SAN. SEWER-120 LF

SALVAGE & INSTALL CHAINLINK FENCE AS DIRECTED

SALVAGE & INSTALL STEEL POSTS AS DIRECTED

INSULATE MAIN

INSULATE SERVICE

CONST. C/L

SURVEY C/L

1/4 1/4 STA. 39+46.43

PROTECT

LIGHTED SIGN

GAS METER

HYD.

LEGEND
① SAWCUT BITUMINOUS
② SAWCUT CONCRETE
③ REMOVE BITUMINOUS SIDEWALK
④ REMOVE CONCRETE C & G
⑤ CONSTRUCT PED. CURB RAMP AS PER DETAIL SHEET NO. 8

8' X 8' X 4" POLYSTYRENE INSULATION

EXISTING PROFILE = SURVEY C/L

PROPOSED PROFILE = CONST. C/L

REMOVE EXISTING 12" CMP

2' SUBGRADE CORRECTION

+75.00 BEGIN MUCK EXCAV.

BYPASS PUMPING FOR SAN SEWER

CONFORMING TO CONST. RECORDS
DONE BY: MK
DATE: 12-17-93

REVISED 3/13/92 B.J.
REVISED 3/26/92 DM

S.A.P. NO. 62-646-08

SHEET 14 OF 41 SHEETS

28-131

PROJECT=CLEVLND ALT=1 REV=1 SGR=GRID FORM=FORMAT1 DATE= 2/19/1992

8' X 8' X 4" POLYSTYRENE INSULATION

LEGEND
1. SAWCUT BITUMINOUS
2. SAWCUT CONCRETE
3. REMOVE BITUMINOUS SIDEWALK
4. REMOVE CONCRETE C & G
5. CONSTRUCT PED. CURB RAMP AS PER DETAIL SHEET NO. 8
6. REMOVE BITUMINOUS CURB

MIDLAND HILLS COUNTRY CLUB

+10 END 12" D.I.P. WATERMAIN
CONNECT TO EXISTING 12" C.I.P. WATERMAIN

SALVAGE & INSTALL CHAINLINK FENCE AS DIRECTED @ R/W

SALVAGE & INSTALL CHAINLINK FENCE AS DIRECTED @ R/W

INSULATE MAIN

REMOVE

INSULATE SERVICE

INSULATE SERVICE

INSULATE SERVICE

CONST. C/L

SURVEY C/L

SURVEY C/L

CB 145 (2) 4' BOX

CB 146

CB 147

CB 148

CB 149

MH 37

MH 38

MH 39

MH 40

MH 41

MH 42

MH 43

MH 44

MH 45

MH 46

MH 47

AP 36A

AP 144A

AP 145A

B624 C & G

10" VCP SAN. SEWER

12" C.I.P. WATERMAIN

4" M.P. GAS

15" DIP

24" RCP

24" STEEL CASING

10" HONEYSUCKLE HEDGE

PROPOSED 5' CONC. WALK

CONSTRUCT 4" CONC. WALK

BEGIN MEDIAN STA. 51+05.00

END MEDIAN STA. 52+10.00

END 40:1 TAPER STA. 51+05.00

BEGIN 40:1 TAPER STA. 47+05.00

TAPER BIT. TO MATCH EXISTING AS DIRECTED

STA. 52+58.62 = ℄ COUNTY RD. B

COUNTY RD. B

STA. 52+10± REPLACE BIT. PATH WITH 2" 2331 WEAR, 2" 2331 BASE, AND 4" AGG. BASE CL. 6

CONSTRUCT OUTFALL GUTTER IN MEDIAN PER STD. PLATE NO. 7100F. CONSTRUCT MOUNTABLE MEDIAN NOSES AS PER DETAIL SHEET NO. 8

EXISTING 5' BIT. WALK

PROTECT 12" EXISTING DRAIN PIPE

GRADE TO DRAIN TO APRON 144A

+00 END 10" PVC SAN SEWER
CONNECT TO EXISTING SAN SEWER EXISTING 1' END BYPASS PUMPING FOR SAN SEWER DRAINAGE DITCH

PROVIDE TEMPORARY WATER SERVICE

PROVIDE TEMPORARY WATER SERVICE

PROVIDE TEMPORARY WATER SERVICE

2053

2122

2132

SCALE 0' 30' 100'

T. 30N. R. 23W. SEC. 16

60'

990
985
980
975
970
965
960

63 LF 15" RCP Δ 0.30%

131 127 LF 18" RCP Δ 0.20% + 5' APRON

60 56 LF 18" RCP Δ 0.20%

60 57 LF 15" RCP Δ 0.50%

14 LF 15" RCP Δ 3.00% + 6' APRON

73 76 LF 15" RCP Δ 0.30%

150 149 LF 15" RCP Δ 0.20%

60 LF 18" RCP Δ 0.30%

235 LF 15" RCP Δ 1.00%

91 LF 10" PVC SAN. SEWER SDR35

4 LF 10" PVC SAN. SEWER SDR35

13 LF 10" PVC SAN. SEWER SDR35

EXISTING PROFILE = SURVEY C/L

PROPOSED PROFILE = CONST. C/L

+00.851%

2' SUBGRADE CORRECTION

2' SUBGRADE CORRECTION

EX. 24" RCP STORM SEWER

12" C.I.P. WATERMAIN

10" VCP SANITARY SEWER

+10 END 12" D.I.P. WATER MAIN CONNECT TO EXISTING WATER MAIN

+00 END 10" PVC SAN SEWER CONNECT TO EXISTING SAN SEWER
END BYPASS PUMPING FOR SAN SEWER

+00.00 END MUCK EXCAV.

EF +37.00 EL. 972.21

RECORD PLANS CONFORMING TO CONST. RECORDS
DONE BY MK
DATE: 12-17-93

REVISED 8/11/92 B.P. & B.J.
REVISED 3/13/92 B.J.
REVISED 3/26/92 DM
REVISED 3/31/92 DM

S.A.P. NO. 62-646-08

SHEET 15 OF 41 SHEETS

28-131

UNIVERSITY OF MINNESOTA GOLF COURSE

CLEVELAND AVENUE

EXACT LOCATION OF PROPOSED PATH TO BE DETERMINED IN FIELD.

NORTH

0 10 20 30 40 60 80

SCALE

NOTE:

LANDSCAPE PLAN IS CONCEPTUAL ONLY. TREES DEPICTED MAY NOT EXIST AS DRAWN. CHECK CLEAR AND GRUB CHART FOR EXACT SPECIE, SIZE AND LOCATION. VERIFY IN FIELD PRIOR TO CLEARING AND GRUBBING.

PATH CONSTRUCTION

PATH SHALL BE 100% CRUSHED QUARRY LIMESTONE PER MN/DOT SPEC. 2211.3F3; SHALL BE PAID FOR AS ITEM NO. 2211.503 WHICH SHALL BE PAYMENT IN FULL FOR ALL WORK AND MATERIAL ESTIMATED AT 70 CY (PLACED).

PATH SHALL BE 6' WIDE, 1150'± LONG, & 0.25' DEEP.

TURF ESTABLISHMENT & RESTORATION

AREAS BELOW EL. 972 SHALL BE SEEDED WITH SEED MIXTURE SPECIAL 1.

AREAS ABOVE EL. 972 SHALL BE SEEDED WITH SEED MIXTURE SPECIAL 2.

CONTRACTOR SHALL SALVAGE APPROXIMATELY 851 CY OF SUITABLE MATERIAL FROM UNCLASSIFIED EXCAVATION FOR PLACEMENT AS TOPSOIL PRIOR TO SEEDING. INCLUDE THE PRICE OF THIS WORK IN ITEM 2105.515 UNCLASSIFIED EXCAVATION.

SEE SPECIAL PROVISIONS.

PROPOSED 5' CONCRETE SIDEWALK

PROPOSED R/W

EDGE OF BITUMINOUS

PROPOSED RELOCATED PATH

WOOD BENCH

NATURE / FITNESS TRAIL

420'

CONST. LIMITS

SWAMP

POND

315'

145'

SIGN

BENCH

BITUMINOUS SIDEWALK

CONC. CURB & GUTTER

CB

PROPOSED RELOCATED PATH

EXERCISE STA.

PICNIC SHELTER

340'

PICNIC AREA

PARKING LOT

BIKEWAY

OPEN PLAY / FREE SKATING AREA

PRAIRIE

SOCCER / SOFTBALL FIELDS

ADDITIONAL TURF ESTABLISHMENT

CONTRACTOR SHALL DISC ANCHOR, SEED (MIXTURE SPECIAL 2), AND FERTILIZE AN ADDITIONAL 2 ACRES WITHIN THE PARK AREA. THE EXACT LIMITS SHALL BE DETERMINED IN THE FIELD. PAYMENT SHALL BE MADE BY APPROPRIATE BID ITEMS AND PAID FOR BY CITY OF FALCON HEIGHTS.

PARK BLDG.

HOCKEY RINK

TENNIS COURTS

ELECT. BOX

LP.

BALANCE BEAM

EVERGREEN

SHELTER

HARD COURT

PLAY AREA

HORSESHOE

SAND VOLLEYBALL

BACKSTOP

FENCE

HYD

MH

PROPERTY LINE

ROSELAWN AVENUE

CONNECTION TO NEIGHBORHOOD

GATE

WEST 1/4 CORNER

AS-BUILT PLAN CONFORMING TO CONST. RECORDS

DONE BY: MR

DATE: 12-17-93

28-131

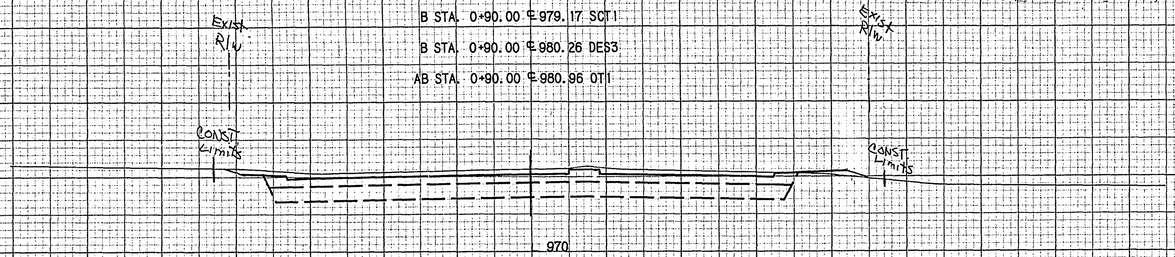
REVISED 4/24/92 DM

S.A.P. 62-646-08

SHEET 16 OF 41 SHEETS

B STA. 0+90.00 ℄ 977.18 SCT2
B STA. 0+90.00 ℄ 979.17 SCT1
B STA. 0+90.00 ℄ 980.26 DES3
AB STA. 0+90.00 ℄ 980.96 OT1

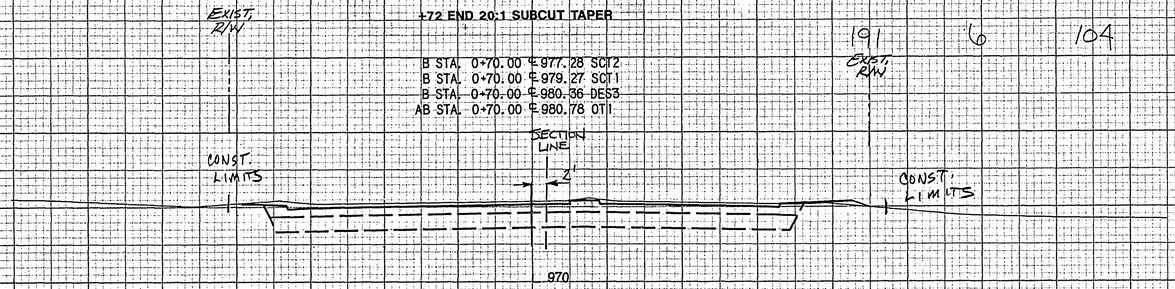
EXCAVATION EMBANKMENT GRANULAR



+72 END 20:1 SUBCUT TAPER

B STA. 0+70.00 ℄ 977.28 SCT2
B STA. 0+70.00 ℄ 979.27 SCT1
B STA. 0+70.00 ℄ 980.36 DES3
AB STA. 0+70.00 ℄ 980.78 OT1

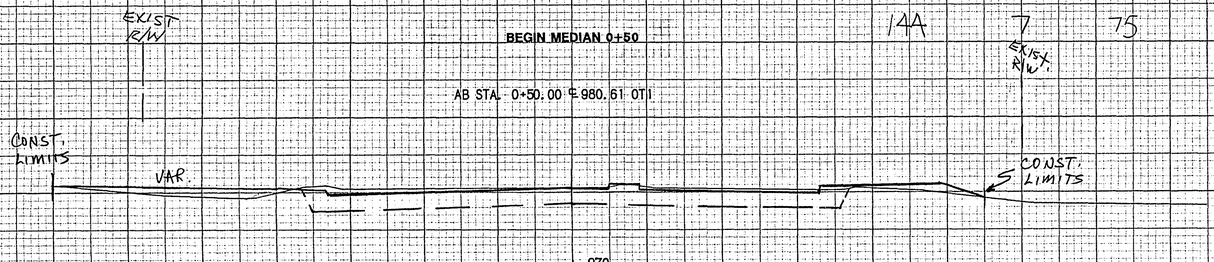
191 6 104



BEGIN MEDIAN 0+50

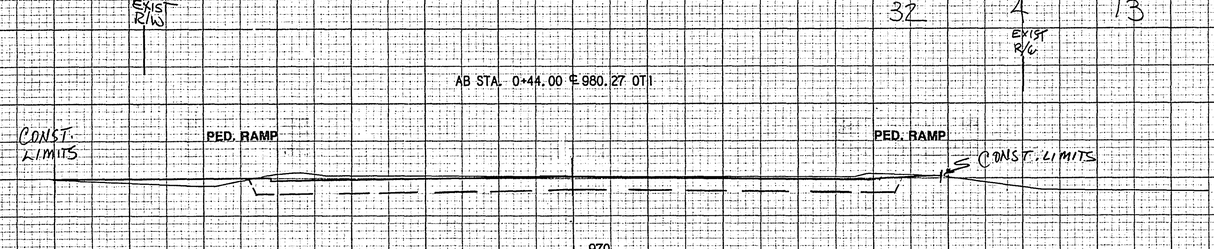
AB STA. 0+50.00 ℄ 980.61 OT1

14A 7 75



AB STA. 0+44.00 ℄ 980.27 OT1

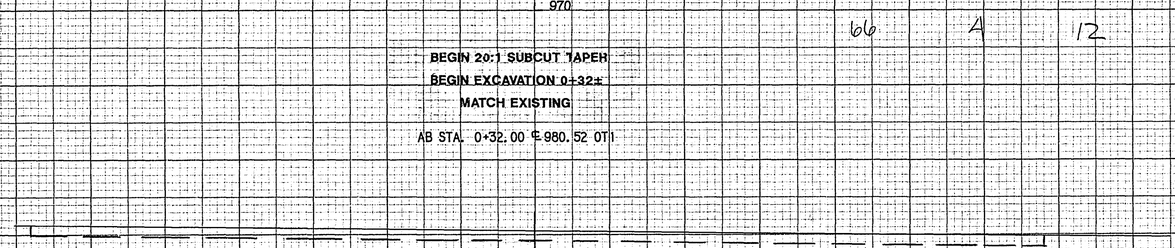
32 4 13



BEGIN 20:1 SUBCUT TAPER
BEGIN EXCAVATION 0+32±
MATCH EXISTING

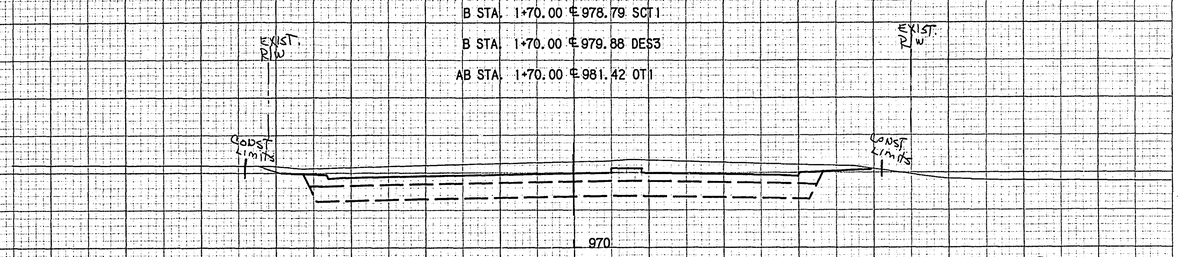
AB STA. 0+32.00 ℄ 980.52 OT1

66 4 12



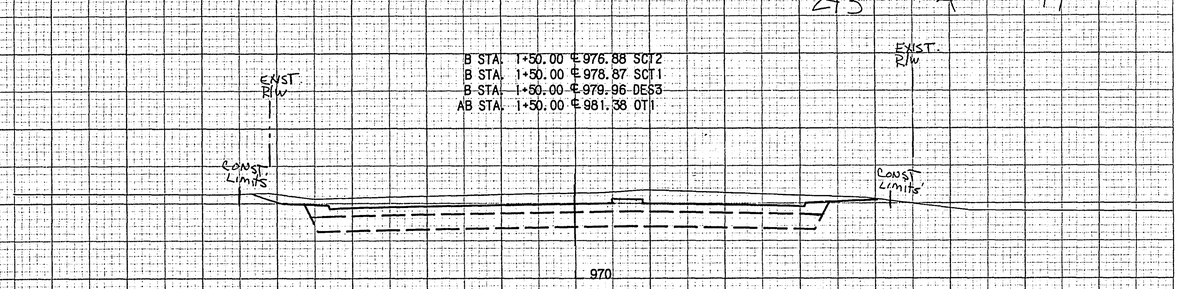
B STA. 1+70.00 ℄ 976.80 SCT2
B STA. 1+70.00 ℄ 978.79 SCT1
B STA. 1+70.00 ℄ 979.88 DES3
AB STA. 1+70.00 ℄ 981.42 OT1

EXCAVATION EMBANKMENT GRANULAR



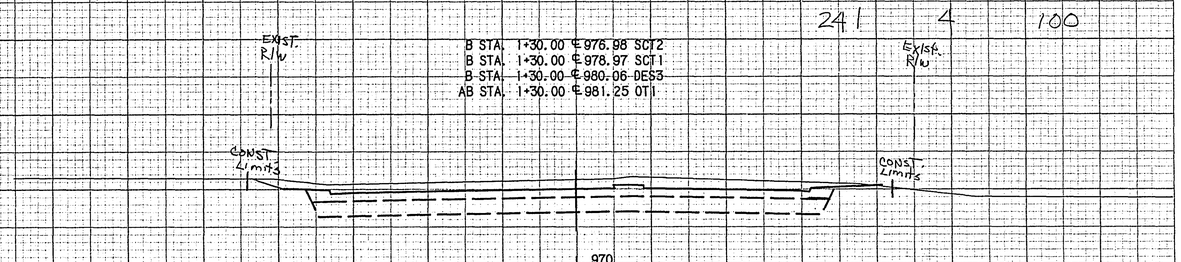
243 4 99

B STA. 1+50.00 ℄ 976.88 SCT2
B STA. 1+50.00 ℄ 978.87 SCT1
B STA. 1+50.00 ℄ 979.96 DES3
AB STA. 1+50.00 ℄ 981.38 OT1



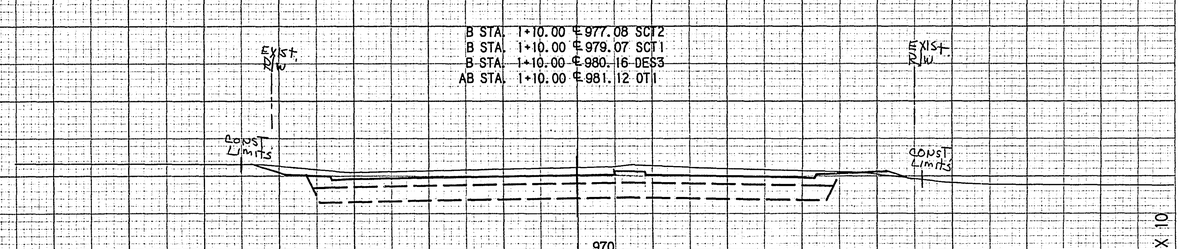
241 4 100

B STA. 1+30.00 ℄ 976.98 SCT2
B STA. 1+30.00 ℄ 978.97 SCT1
B STA. 1+30.00 ℄ 980.06 DES3
AB STA. 1+30.00 ℄ 981.25 OT1



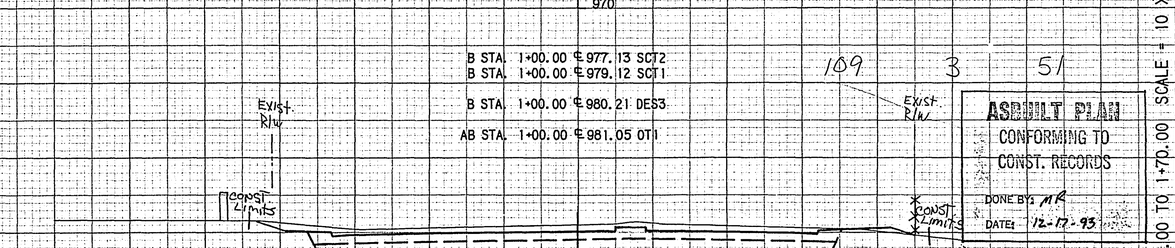
229 5 101

B STA. 1+10.00 ℄ 977.08 SCT2
B STA. 1+10.00 ℄ 979.07 SCT1
B STA. 1+10.00 ℄ 980.16 DES3
AB STA. 1+10.00 ℄ 981.12 OT1



109 3 51

B STA. 1+00.00 ℄ 977.13 SCT2
B STA. 1+00.00 ℄ 979.12 SCT1
B STA. 1+00.00 ℄ 980.21 DES3
AB STA. 1+00.00 ℄ 981.05 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

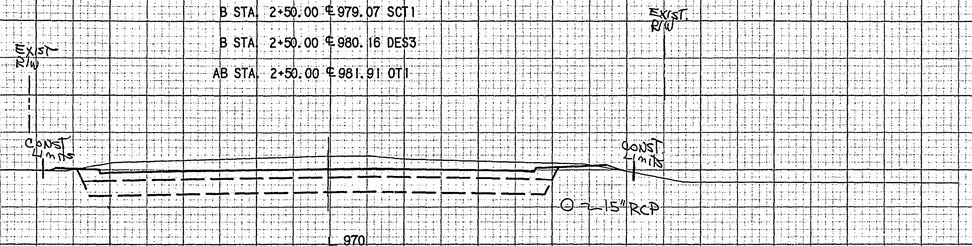
104 3 51

SCALE = 10 X 10
STA. 0+32.00 TO 1+70.00

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **17** OF **41** SHEETS

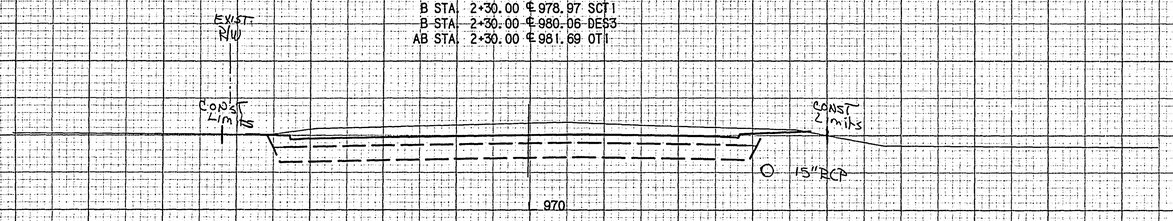
B STA. 2+50.00 ℄ 977.08 SCT2
B STA. 2+50.00 ℄ 979.07 SCT1
B STA. 2+50.00 ℄ 980.16 DES3
AB STA. 2+50.00 ℄ 981.91 OT1

EXCAVATION EMBANKMENT GRANULAR



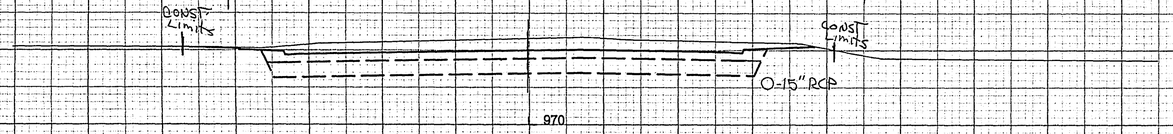
211 5 95

B STA. 2+30.00 ℄ 976.98 SCT2
B STA. 2+30.00 ℄ 978.97 SCT1
B STA. 2+30.00 ℄ 980.06 DES3
AB STA. 2+30.00 ℄ 981.69 OT1



227 4 97

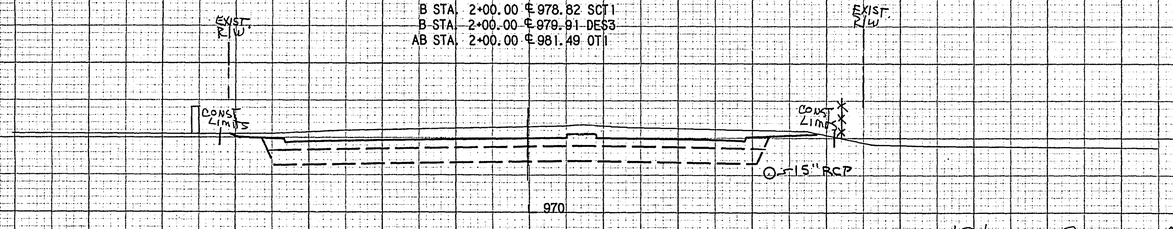
B STA. 2+10.00 ℄ 976.88 SCT2
B STA. 2+10.00 ℄ 978.87 SCT1
B STA. 2+10.00 ℄ 979.96 DES3
AB STA. 2+10.00 ℄ 981.57 OT1



120 2 49

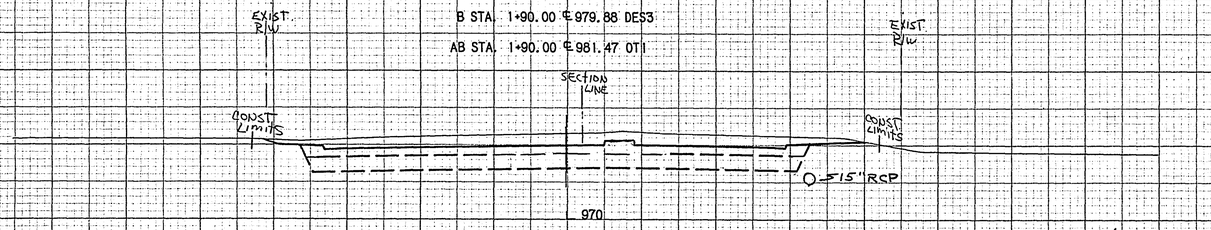
END MEDIAN 2+00

B STA. 2+00.00 ℄ 976.83 SCT2
B STA. 2+00.00 ℄ 978.82 SCT1
B STA. 2+00.00 ℄ 979.91 DES3
AB STA. 2+00.00 ℄ 981.49 OT1



121 2 49

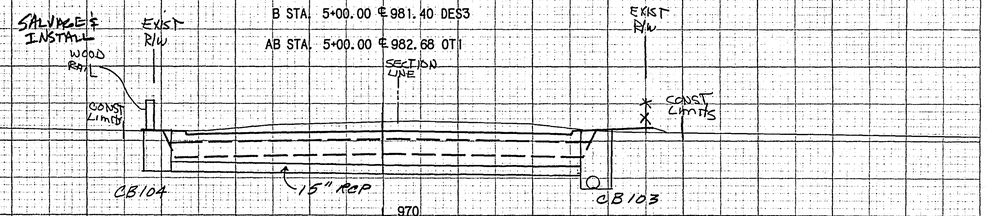
B STA. 1+90.00 ℄ 976.80 SCT2
B STA. 1+90.00 ℄ 978.79 SCT1
B STA. 1+90.00 ℄ 979.88 DES3
AB STA. 1+90.00 ℄ 981.47 OT1



246 4 99

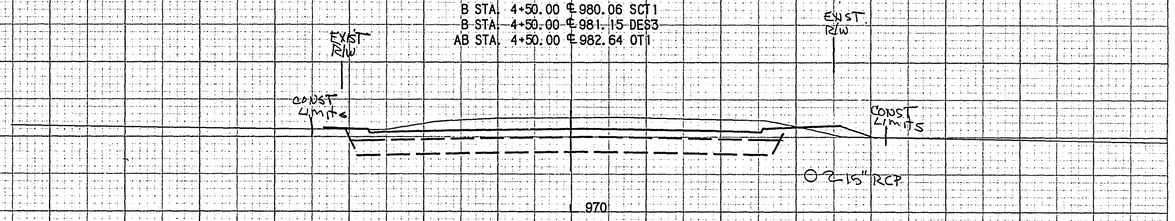
B STA. 5+00.00 ℄ 978.32 SCT2
B STA. 5+00.00 ℄ 980.31 SCT1
B STA. 5+00.00 ℄ 981.40 DES3
AB STA. 5+00.00 ℄ 982.68 OT1

EXCAVATION EMBANKMENT GRANULAR



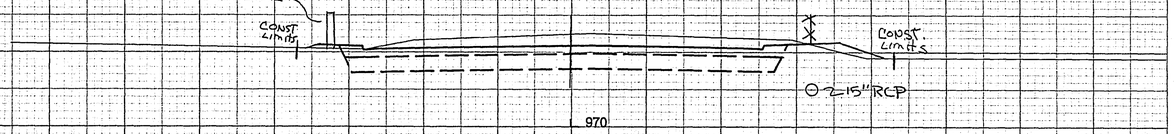
435 20 209

B STA. 4+50.00 ℄ 978.07 SCT2
B STA. 4+50.00 ℄ 980.06 SCT1
B STA. 4+50.00 ℄ 981.15 DES3
AB STA. 4+50.00 ℄ 982.64 OT1



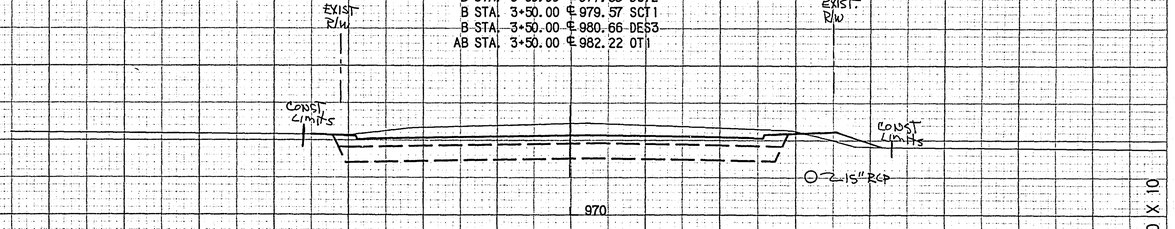
462 23 215

B STA. 4+00.00 ℄ 977.82 SCT2
B STA. 4+00.00 ℄ 979.81 SCT1
B STA. 4+00.00 ℄ 980.90 DES3
AB STA. 4+00.00 ℄ 982.43 OT1



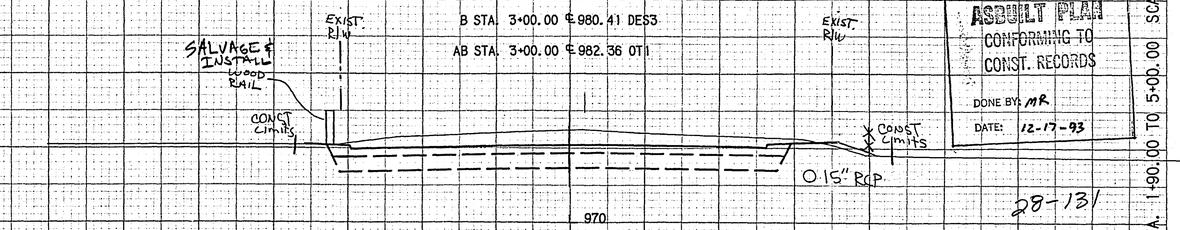
471 19 219

B STA. 3+50.00 ℄ 977.58 SCT2
B STA. 3+50.00 ℄ 979.57 SCT1
B STA. 3+50.00 ℄ 980.66 DES3
AB STA. 3+50.00 ℄ 982.22 OT1



473 22 220

B STA. 3+00.00 ℄ 977.33 SCT2
B STA. 3+00.00 ℄ 979.32 SCT1
B STA. 3+00.00 ℄ 980.41 DES3
AB STA. 3+00.00 ℄ 982.36 OT1



28-131

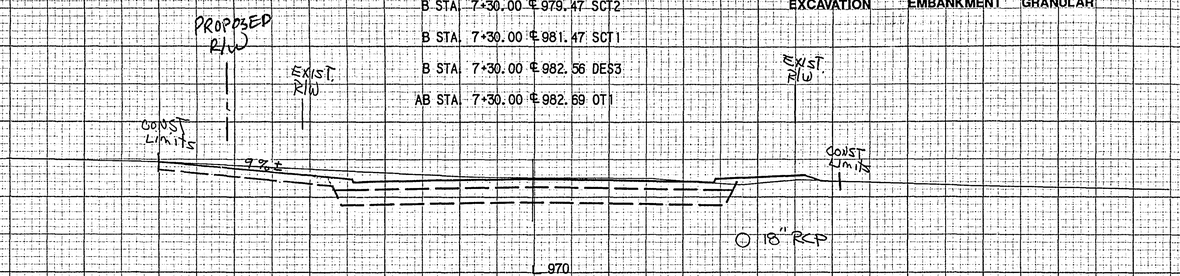
503 20 228

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

STA. 1+90.00 TO 5+00.00 SCALE = 10 X 10

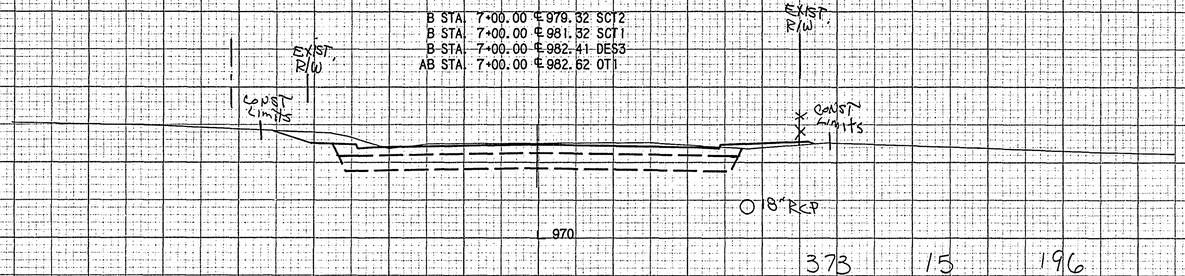
HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **18** OF **41** SHEETS

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 7+30.00 ℄ 979.47 SCT2			
B STA. 7+30.00 ℄ 981.47 SCT1			
B STA. 7+30.00 ℄ 982.56 DES3			
AB STA. 7+30.00 ℄ 982.69 OT1			



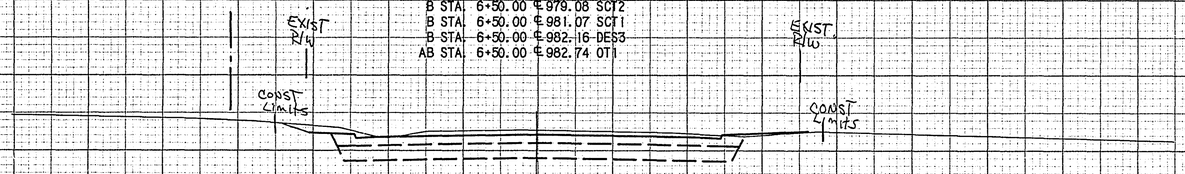
206 11 117

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 7+00.00 ℄ 979.32 SCT2			
B STA. 7+00.00 ℄ 981.32 SCT1			
B STA. 7+00.00 ℄ 982.41 DES3			
AB STA. 7+00.00 ℄ 982.62 OT1			



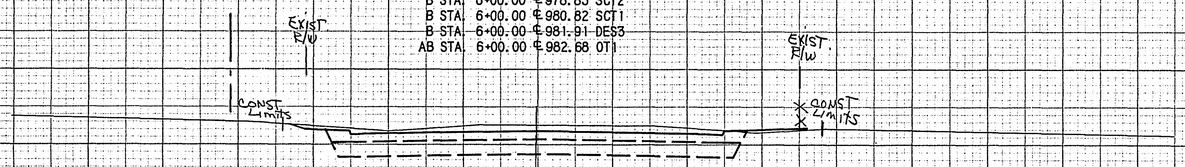
373 15 196

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 6+50.00 ℄ 979.08 SCT2			
B STA. 6+50.00 ℄ 981.07 SCT1			
B STA. 6+50.00 ℄ 982.16 DES3			
AB STA. 6+50.00 ℄ 982.74 OT1			



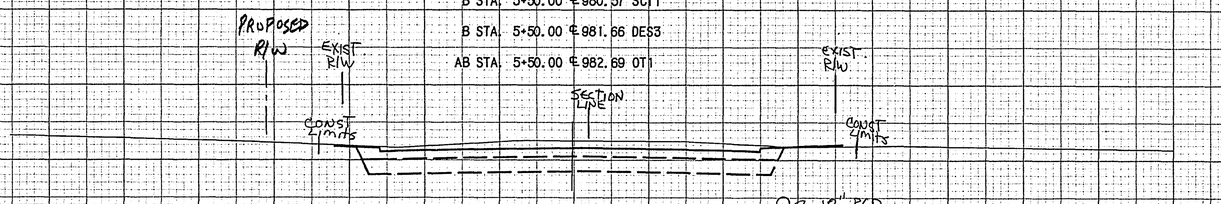
403 13 198

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 6+00.00 ℄ 978.83 SCT2			
B STA. 6+00.00 ℄ 980.82 SCT1			
B STA. 6+00.00 ℄ 981.91 DES3			
AB STA. 6+00.00 ℄ 982.68 OT1			



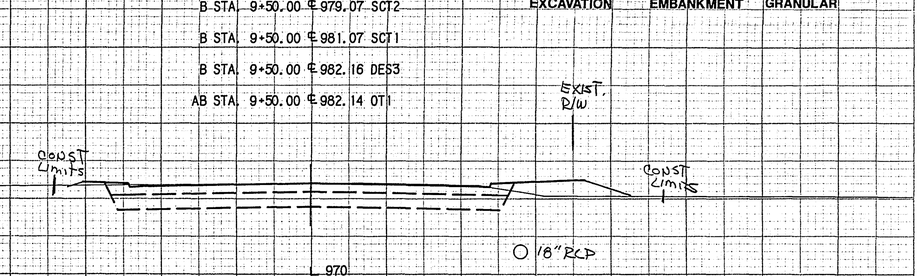
416 12 200

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 5+50.00 ℄ 978.58 SCT2			
B STA. 5+50.00 ℄ 980.57 SCT1			
B STA. 5+50.00 ℄ 981.66 DES3			
AB STA. 5+50.00 ℄ 982.69 OT1			



418 14 204

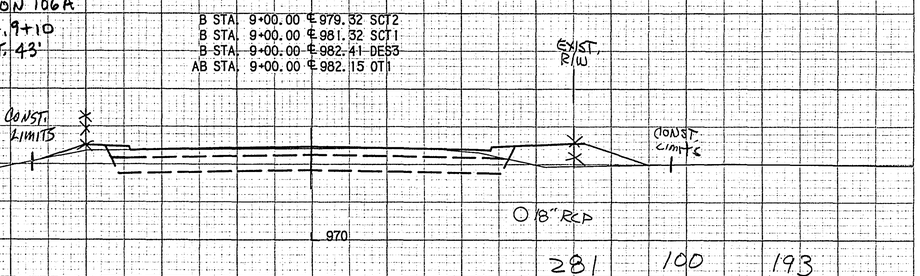
	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 9+50.00 ℄ 979.07 SCT2			
B STA. 9+50.00 ℄ 981.07 SCT1			
B STA. 9+50.00 ℄ 982.16 DES3			
AB STA. 9+50.00 ℄ 982.14 OT1			



300 78 193

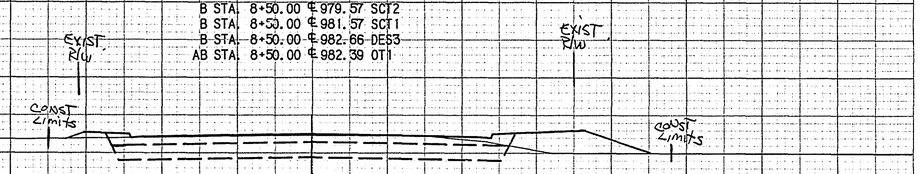
APRON 106A
STA. 9+10
LT. 43'

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 9+00.00 ℄ 979.32 SCT2			
B STA. 9+00.00 ℄ 981.32 SCT1			
B STA. 9+00.00 ℄ 982.41 DES3			
AB STA. 9+00.00 ℄ 982.15 OT1			



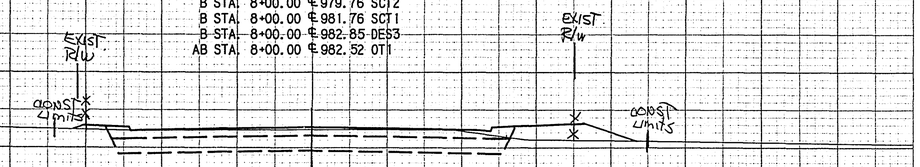
281 100 193

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 8+50.00 ℄ 979.57 SCT2			
B STA. 8+50.00 ℄ 981.57 SCT1			
B STA. 8+50.00 ℄ 982.66 DES3			
AB STA. 8+50.00 ℄ 982.39 OT1			



290 87 193

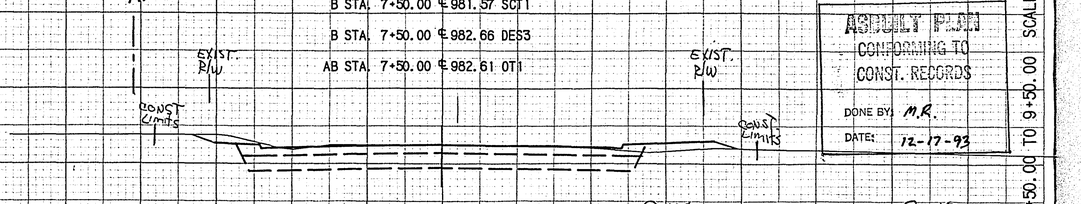
	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 8+00.00 ℄ 979.76 SCT2			
B STA. 8+00.00 ℄ 981.76 SCT1			
B STA. 8+00.00 ℄ 982.85 DES3			
AB STA. 8+00.00 ℄ 982.52 OT1			



313 48 193

PROPOSED R/W

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 7+50.00 ℄ 979.57 SCT2			
B STA. 7+50.00 ℄ 981.57 SCT1			
B STA. 7+50.00 ℄ 982.66 DES3			
AB STA. 7+50.00 ℄ 982.61 OT1			



131 9 77

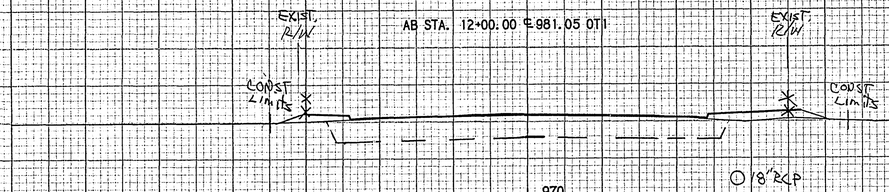
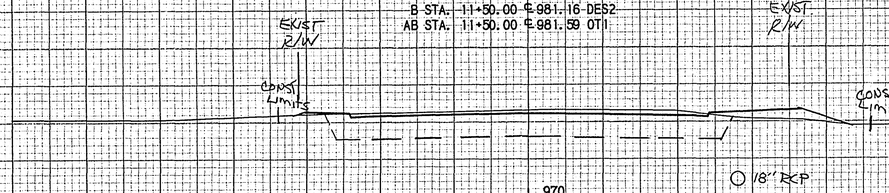
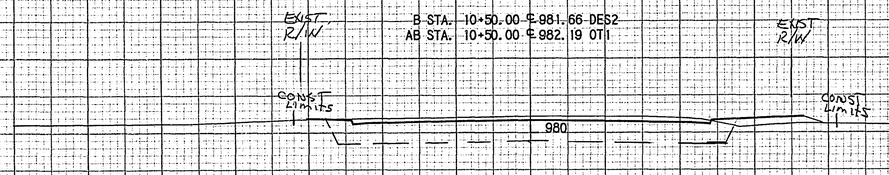
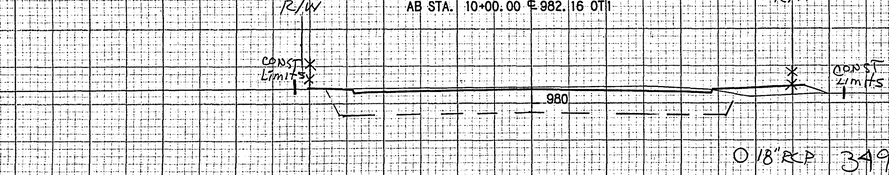
AS-BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

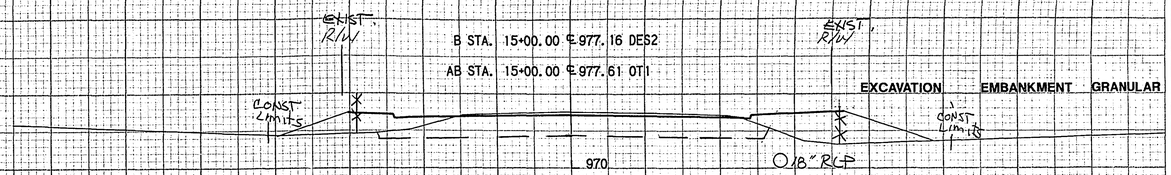
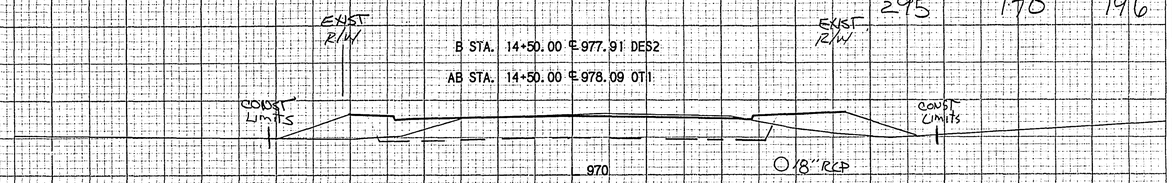
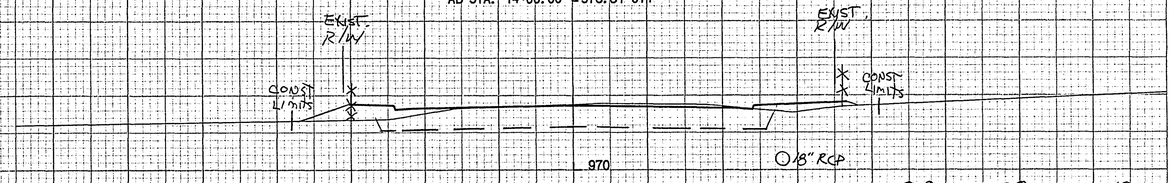
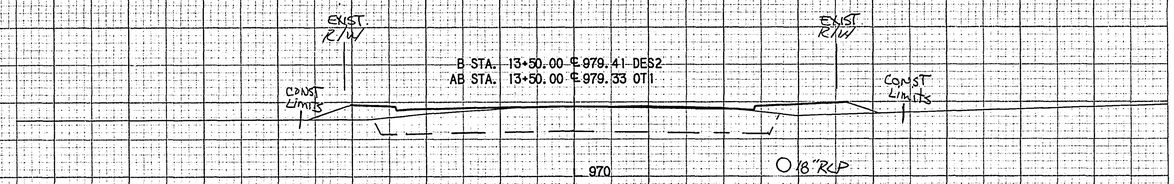
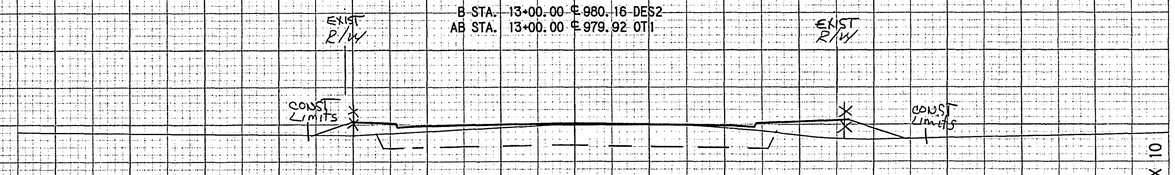
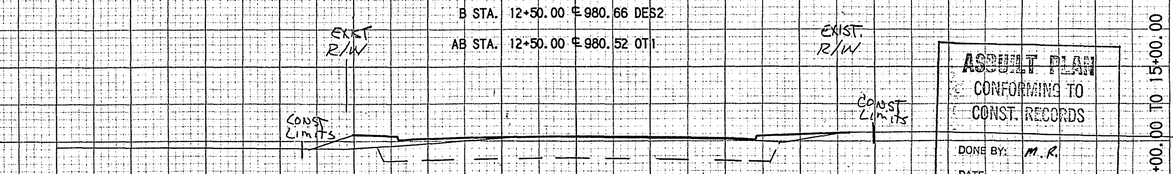
28-131

STA. 5+50.00 TO 9+50.00 SCALE = 10 X 10

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **19** OF **41** SHEETS

2.4 X

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 12+00.00 ℄ 980.91 DES2 AB STA. 12+00.00 ℄ 981.05 OT1			
	318	51	196
B STA. 11+50.00 ℄ 981.16 DES2 AB STA. 11+50.00 ℄ 981.59 OT1			
	371	46	196
B STA. 11+00.00 ℄ 981.41 DES2 AB STA. 11+00.00 ℄ 982.11 OT1			
	378	39	196
B STA. 10+50.00 ℄ 981.66 DES2 AB STA. 10+50.00 ℄ 982.19 OT1			
	372	40	196
B STA. 10+00.00 ℄ 981.91 DES2 AB STA. 10+00.00 ℄ 982.16 OT1			
	349	51	194

	EXCAVATION	EMBANKMENT	GRANULAR
B STA. 15+00.00 ℄ 977.16 DES2 AB STA. 15+00.00 ℄ 977.61 OT1			
	295	170	196
B STA. 14+50.00 ℄ 977.91 DES2 AB STA. 14+50.00 ℄ 978.09 OT1			
	276	114	196
B STA. 14+00.00 ℄ 978.66 DES2 AB STA. 14+00.00 ℄ 978.81 OT1			
	298	78	196
B STA. 13+50.00 ℄ 979.41 DES2 AB STA. 13+50.00 ℄ 979.33 OT1			
	296	97	196
B STA. 13+00.00 ℄ 980.16 DES2 AB STA. 13+00.00 ℄ 979.92 OT1			
	269	84	196
B STA. 12+50.00 ℄ 980.66 DES2 AB STA. 12+50.00 ℄ 980.52 OT1			
	280	54	196

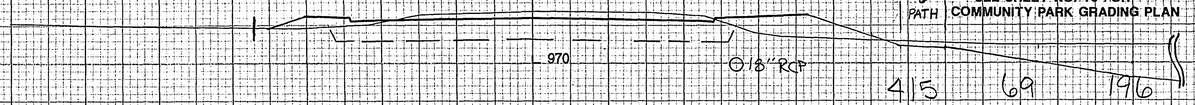
AS BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93
28-131

STA. 10+00.00 TO 15+00.00 SCALE = 10 X 10

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-03** SHEET **20** OF **41** SHEETS

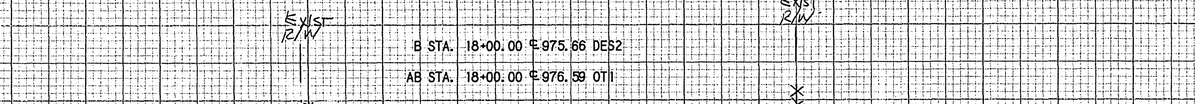
B STA. 18+50.00 ℄ 975.91 DES2
AB STA. 18+50.00 ℄ 976.81 OT1

EXCAVATION 415 EMBANKMENT 69 GRANULAR 196



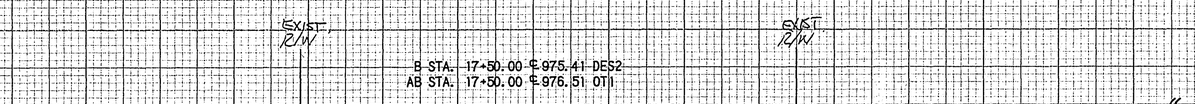
B STA. 18+00.00 ℄ 975.66 DES2
AB STA. 18+00.00 ℄ 976.59 OT1

461 19 196



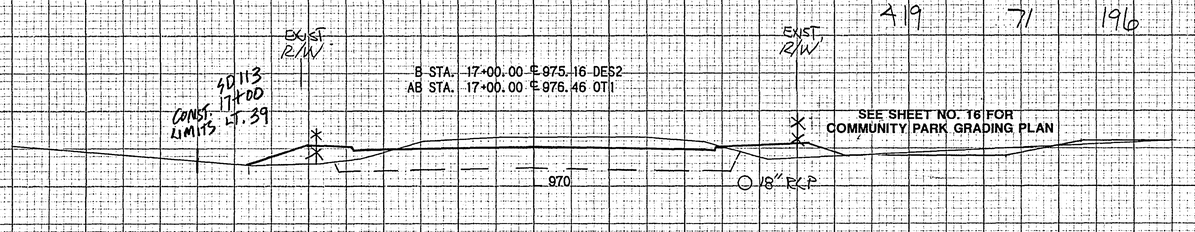
B STA. 17+50.00 ℄ 975.41 DES2
AB STA. 17+50.00 ℄ 976.51 OT1

419 71 196



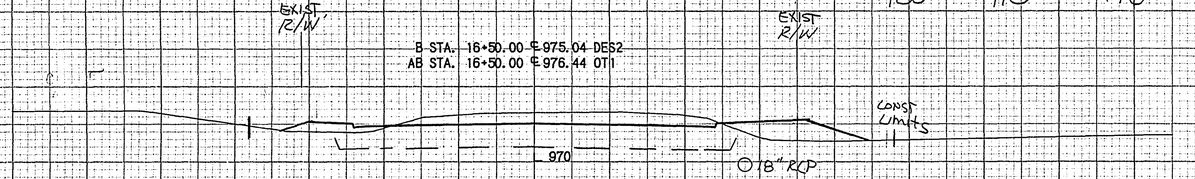
B STA. 17+00.00 ℄ 975.16 DES2
AB STA. 17+00.00 ℄ 976.46 OT1

400 110 196



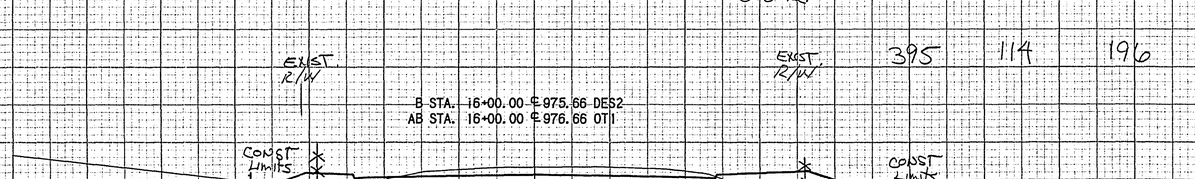
B STA. 16+50.00 ℄ 975.04 DES2
AB STA. 16+50.00 ℄ 976.44 OT1

395 114 196



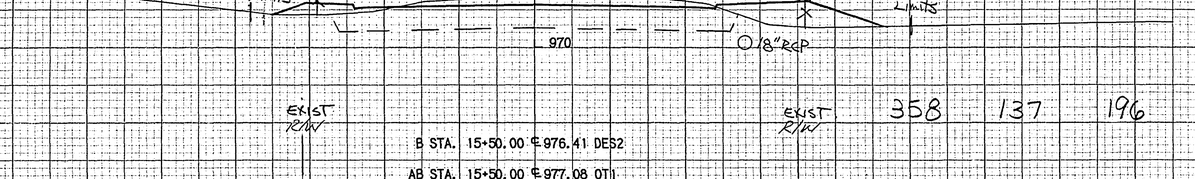
B STA. 16+00.00 ℄ 975.66 DES2
AB STA. 16+00.00 ℄ 976.66 OT1

358 137 196



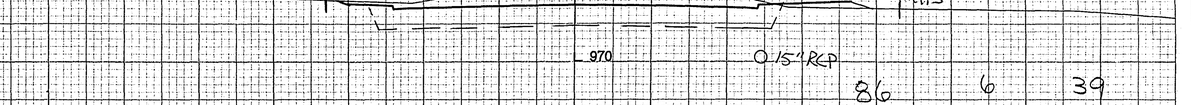
B STA. 15+50.00 ℄ 976.41 DES2
AB STA. 15+50.00 ℄ 977.08 OT1

324 168 196



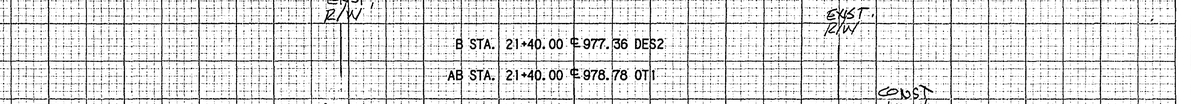
B STA. 21+50.00 ℄ 977.41 DES2
AB STA. 21+50.00 ℄ 978.93 OT1

EXCAVATION 86 EMBANKMENT 6 GRANULAR 39



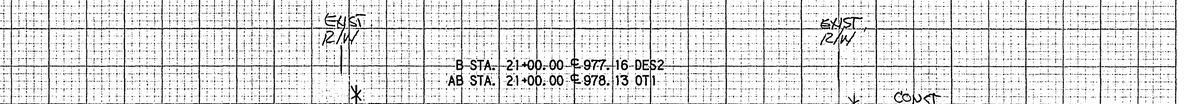
B STA. 21+40.00 ℄ 977.36 DES2
AB STA. 21+40.00 ℄ 978.78 OT1

341 25 157



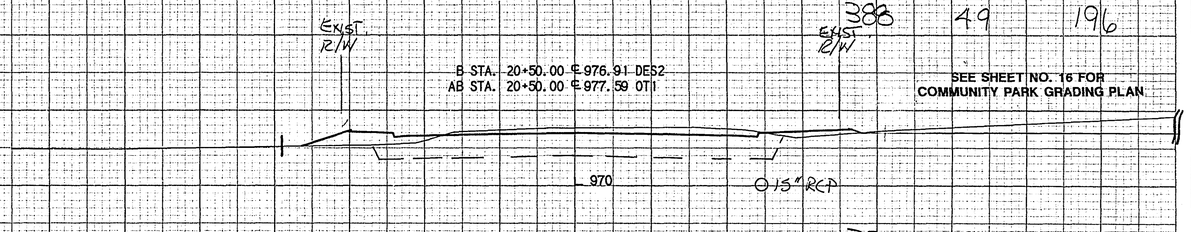
B STA. 21+00.00 ℄ 977.16 DES2
AB STA. 21+00.00 ℄ 978.13 OT1

388 49 196



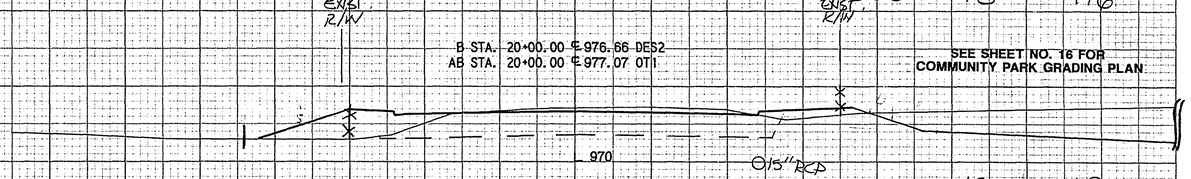
B STA. 20+50.00 ℄ 976.91 DES2
AB STA. 20+50.00 ℄ 977.59 OT1

335 98 196



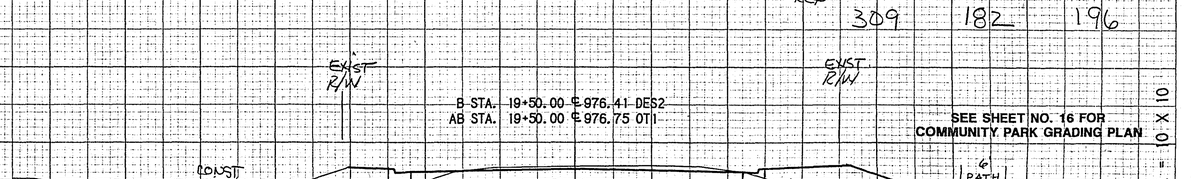
B STA. 20+00.00 ℄ 976.66 DES2
AB STA. 20+00.00 ℄ 977.07 OT1

309 182 196



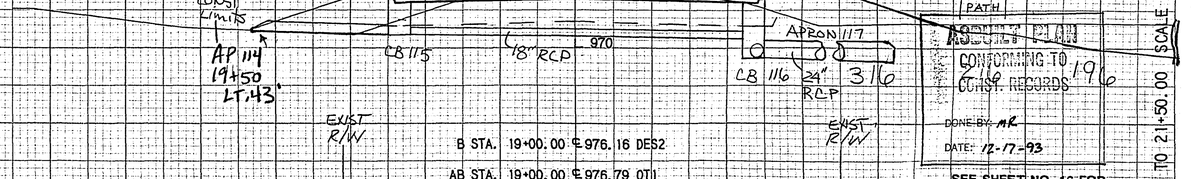
B STA. 19+50.00 ℄ 976.41 DES2
AB STA. 19+50.00 ℄ 976.75 OT1

316 16 196



B STA. 19+00.00 ℄ 976.16 DES2
AB STA. 19+00.00 ℄ 976.79 OT1

344 162 196



AS BUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

STA. 15+50.00 TO 21+50.00 SCALE = 10 X 10

RAMSEY COUNTY, MINN. S.A.P. NO. 62-646-08 SHEET 21 OF 41 SHEETS

24 X

B STA. 24+00.00 ℄ 980.00 DES2
AB STA. 24+00.00 ℄ 982.03 OT1

EXCAVATION EMBANKMENT GRANULAR

EXIST R/W

CONST LIMITS

SEE SHEET NO. 16 FOR COMMUNITY PARK GRADING PLAN

END WALL 23+94
LT. 28' to FACE

970

549 42 196

B STA. 23+50.00 ℄ 979.41 DES2
AB STA. 23+50.00 ℄ 981.73 OT1

EXIST R/W

CONST LIMITS

SEE SHEET NO. 16 FOR COMMUNITY PARK GRADING PLAN

970

603 11 196

B STA. 23+00.00 ℄ 978.83 DES2
AB STA. 23+00.00 ℄ 981.17 OT1

EXIST R/W

CONST LIMITS

SEE SHEET NO. 16 FOR COMMUNITY PARK GRADING PLAN

970

569 16 196

B STA. 22+50.00 ℄ 978.24 DES2
AB STA. 22+50.00 ℄ 980.18 OT1

EXIST R/W

CONST LIMITS

015" RCP

970

BEGIN WALL 22+05
LT. 28' to FACE

499 19 196

B STA. 22+00.00 ℄ 977.70 DES2
AB STA. 22+00.00 ℄ 979.39 OT1

EXIST R/W

CONST LIMITS

015" RCP

970

450 26 196

B STA. 26+50.00 ℄ 982.91 DES2
AB STA. 26+50.00 ℄ 982.93 OT1

EXCAVATION EMBANKMENT GRANULAR

CONST LIMITS

980

VAR.

VAR. EXISTING R/W

189 115

℄ ROSELAWN AVE

B STA. 26+33.00 ℄ 982.71 DES2
AB STA. 26+33.00 ℄ 982.70 OT1

℄ ROSELAWN AVE

CONST LIMITS

980

VAR.

VAR. EXIST. R/W

369 7 EXIST R/W 210

B STA. 26+00.00 ℄ 982.33 DES2
AB STA. 26+00.00 ℄ 982.80 OT1

RADIUS

PED. RAMP

RADIUS

980

475 50 248

EXIST R/W

B STA. 25+50.00 ℄ 981.75 DES2
AB STA. 25+50.00 ℄ 982.43 OT1

EXIST R/W

CONST LIMITS

SEE SHEET NO. 16 FOR COMMUNITY PARK GRADING PLAN

970

407 86 196

B STA. 25+00.00 ℄ 981.17 DES2
AB STA. 25+00.00 ℄ 982.19 OT1

EXIST R/W

EXIST R/W

CONST LIMITS

SEE SHEET NO. 16 FOR COMMUNITY PARK GRADING PLAN

970

443 66 196

B STA. 24+50.00 ℄ 980.58 DES2
AB STA. 24+50.00 ℄ 982.18 OT1

EXIST R/W

EXIST R/W

CONST LIMITS

SEE SHEET NO. 16 FOR COMMUNITY PARK GRADING PLAN

970

485 56 196

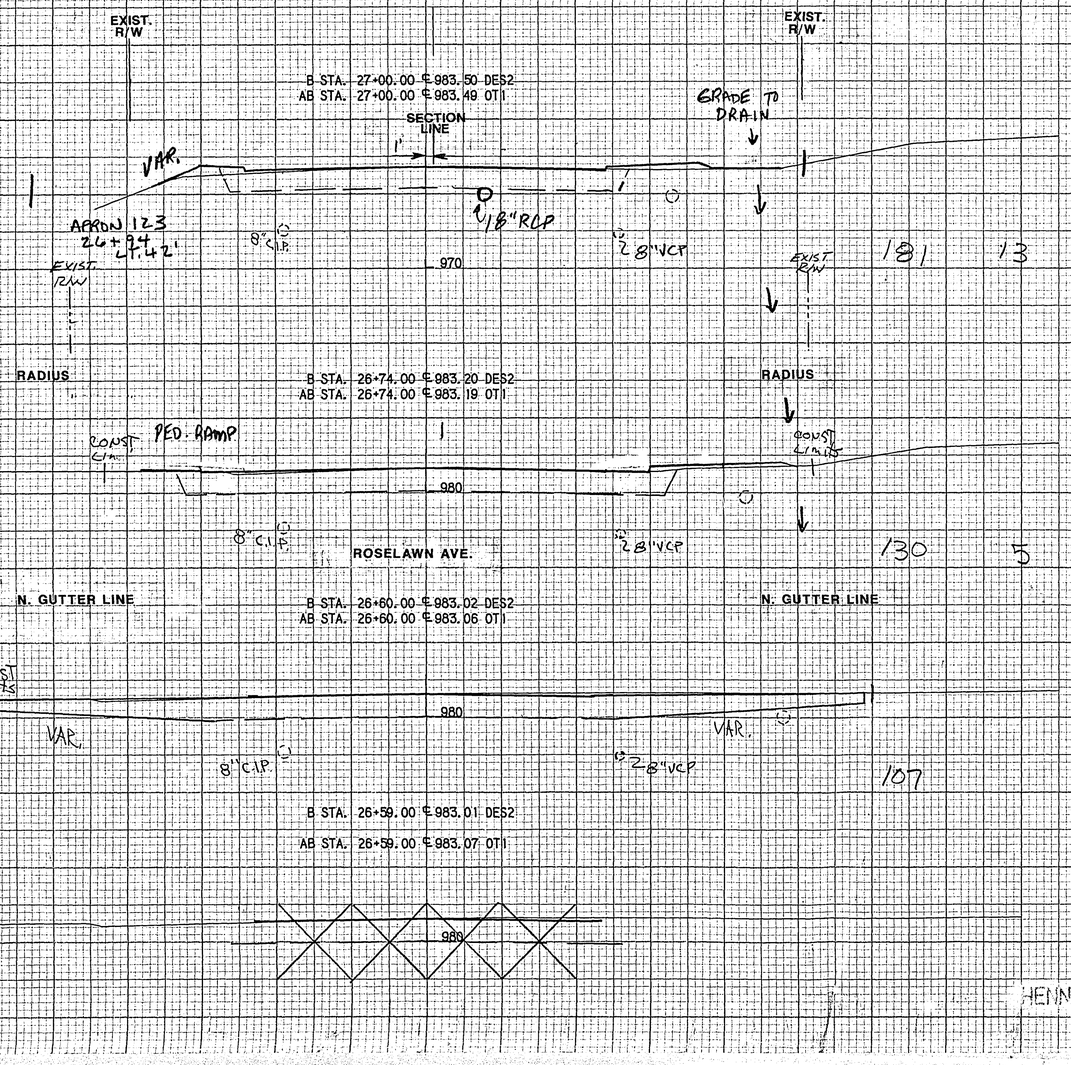
AS BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

STA. 22+00.00 TO 26+50.00 SCALE 1" = 10' X 10'

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **22** OF **41** SHEETS

EXCAVATION EMBANKMENT GRANULAR



AS-BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93
28-131

STA. 26+59.00 TO 27+00.00 SCALE = 10 X 10

REVISED 3/31/92

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **23** OF **41** SHEETS

B STA. 28+50.00 ℄ 985.25 DES2
AB STA. 28+50.00 ℄ 985.85 OT1

EXCAVATION EMBANKMENT GRANULAR

EXIST. R/W

EXIST. R/W

CONST. LIMITS

CONST LIMITS

15"RCP

15" RCP

8" C.I.P.

975

8" VCP

349 111 196

B STA. 28+00.00 ℄ 984.67 DES2
AB STA. 28+00.00 ℄ 984.74 OT1

EXIST. R/W

EXIST. R/W

CONST LIMITS

CONST LIMITS

15" RCP

15" RCP

8" C.I.P.

975

8" VCP

319 163 196

B STA. 27+50.00 ℄ 984.09 DES2
AB STA. 27+50.00 ℄ 984.11 OT1

EXIST. R/W

EXIST. R/W

SECTION LINE

CONST LIMITS

CONST LIMITS

15" RCP

15" RCP

8" C.I.P.

975

8" VCP

291 91 196

28-131

AS-BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.E.
DATE: 12-17-93

REVISED 3/31/92

STA. 27+50.00 TO 28+50.00 SCALE = 5 X 5

B STA. 30+50.00 ℄ 987.58 DES2
AB STA. 30+50.00 ℄ 988.50 OTI

EXIST. R/W — ENTRANCE — CONST. LIMITS — 9% ± — 985 — EXIST. R/W

EXCAVATION	EMBANKMENT	GRANULAR
433	14	196

B STA. 30+00.00 ℄ 987.01 DES2
AB STA. 30+00.00 ℄ 987.95 OTI

EXIST. R/W — 8" C.I.P. — CONST. LIMITS — 985 — EXIST. R/W

EXCAVATION	EMBANKMENT	GRANULAR
459	10	200

B STA. 29+53.00 ℄ 986.46 DES2
AB STA. 29+53.00 ℄ 987.47 OTI

EXIST. R/W — ENTRANCE — 8" C.I.P. — 8% ± — 985 — VAR. — EX. 15" RCP — EXIST. R/W

EXCAVATION	EMBANKMENT	GRANULAR
34		14

B STA. 29+50.00 ℄ 986.42 DES2
AB STA. 29+50.00 ℄ 987.41 OTI

EXIST. R/W — ENTRANCE — 8" C.I.P. — 8% ± — 985 — VAR. — EX. 15" RCP — EXIST. R/W

EXCAVATION	EMBANKMENT	GRANULAR
92	1	37

B STA. 29+42.00 ℄ 986.33 DES2
AB STA. 29+42.00 ℄ 987.29 OTI

EXIST. R/W — ENTRANCE — 8" C.I.P. — 8% ± — 985 — VAR. — EX. RCP — EXIST. R/W

EXCAVATION	EMBANKMENT	GRANULAR
407	12	179

B STA. 29+00.00 ℄ 985.84 DES2
AB STA. 29+00.00 ℄ 986.68 OTI

EXIST. R/W — 8" C.I.P. — SECTION LINE — CONST. LIMITS — 980 — 15" RCP — EX. 15" RCP — CONST. LIMITS — EXIST. R/W

EXCAVATION	EMBANKMENT	GRANULAR
381	45	196

8" C.I.P. — 8" V.C.P.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
M.R.
DONE BY: 12-17-93
DATE:

28-131

STA. 29+00.00 TO 30+50.00 SCALE = 5' X 5'

REVISED 3/31/92

HENN. CO., MINN. — RAMSEY COUNTY — **S.A.P. NO. 62-646-08** — SHEET **25** OF **41** SHEETS

B STA. 31+20.00 ℄ 985.33 SCT2
B STA. 31+20.00 ℄ 987.32 SCT1
B STA. 31+20.00 ℄ 988.40 DES4
AB STA. 31+20.00 ℄ 989.21 OT1

EXCAVATION EMBANKMENT GRANULAR

EXIST. R/W

CONST. LIMITS

ENTRANCE

EXIST. R/W

CONST LIMITS

8" C.I.P.

980

160 T 79

B STA. 31+00.00 ℄ 985.09 SCT2
B STA. 31+00.00 ℄ 987.09 SCT1
B STA. 31+00.00 ℄ 988.18 DES4
AB STA. 31+00.00 ℄ 988.94 OT1

EX. 8" V.C.P.

EXIST. R/W

CONST LIMITS

EXIST. R/W

CONST LIMITS

8" C.I.P.

980

EXIST. R/W 84 4 39

B STA. 30+90.00 ℄ 984.97 SCT2
B STA. 30+90.00 ℄ 986.97 SCT1
B STA. 30+90.00 ℄ 988.05 DES4
AB STA. 30+90.00 ℄ 988.90 OT1

EX. 8" V.C.P.

EXIST. R/W

CONST. LIMITS

CONST. LIMITS

ENTRANCE

8" C.I.P.

980

336 N 149

B STA. 30+52.00 ℄ 984.53 SCT2
B STA. 30+52.00 ℄ 986.53 SCT1
B STA. 30+52.00 ℄ 987.61 DES4
AB STA. 30+52.00 ℄ 988.50 OT1

EX. 8" V.C.P.

EXIST. R/W

CONST. LIMITS

CONST. LIMITS

SECTION LINE

ENTRANCE

8" C.I.P.

980

8 28-131

REVISED

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

REVISED 3/31/92

STA. 30+52.00 TO 31+20.00 SCALE = 5 X 5

RENN. CO., MINN. RAMSEY COUNTY S.A.P. NO. 62-646-08 SHEET 26 OF 41 SHEETS

B STA. 32+74.00 ℄ 985.85 SCT2
B STA. 32+74.00 ℄ 987.85 SCT1
B STA. 32+74.00 ℄ 988.93 DES4
AB STA. 32+74.00 ℄ 989.27 OT1

EXIST. R/W
CONST. LIMITS
ENTRANCE
VAR
985

	EXCAVATION	EMBANKMENT	GRANULAR
	160	22	94

℄ 8" C.I.P
B STA. 32+50.00 ℄ 985.98 SCT2
B STA. 32+50.00 ℄ 987.98 SCT1
B STA. 32+50.00 ℄ 989.07 DES4
AB STA. 32+50.00 ℄ 989.26 OT1

EXIST. R/W
CONST. LIMITS
℄ EX 8" V.C.P.
985

	76	13	43

℄ 8" C.I.P
B STA. 32+39.00 ℄ 986.05 SCT2
B STA. 32+39.00 ℄ 988.04 SCT1
B STA. 32+39.00 ℄ 989.13 DES4
AB STA. 32+39.00 ℄ 989.21 OT1

EXIST. R/W
CONST. LIMITS
℄ EX 8" V.C.P.
985

	257	46	153

℄ 8" C.I.P
B STA. 32+00.00 ℄ 986.15 SCT2
B STA. 32+00.00 ℄ 988.15 SCT1
B STA. 32+00.00 ℄ 989.24 DES4
AB STA. 32+00.00 ℄ 989.23 OT1

EXIST. R/W
CONST. LIMITS
℄ EX 8" V.C.P.
985

	326	82	196

℄ 8" C.I.P
B STA. 31+50.00 ℄ 985.69 SCT2
B STA. 31+50.00 ℄ 987.68 SCT1
B STA. 31+50.00 ℄ 988.77 DES4
AB STA. 31+50.00 ℄ 989.24 OT1

EXIST. R/W
CONST. LIMITS
SECTION LINE
980

	226	39	118

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: MR.
DATE: 12-17-93

28-13/
REVISED

REVISED 3/31/92

HENN. CO., MINN. RAMSEY COUNTY S.A.P. NO. 62-646-08 SHEET 27 OF 41 SHEETS

STA. 31+50.00 TO 32+74.00 SCALE = 5 X 5

B STA. 34+45.00 ℄ 984.89 SCT2
B STA. 34+45.00 ℄ 986.89 SCT1
B STA. 34+45.00 ℄ 987.96 DES4
AB STA. 34+45.00 ℄ 989.21 OT1

EXIST. R/W

CONST. LIMITS

S. GUTTER LINE

15" R.C.P.

6" C.I.P.

980

EXIST. R/W

CONST. LIMITS

EXCAVATION	EMBANKMENT	GRANULAR
488	8	204

B STA. 34+00.00 ℄ 985.14 SCT2
B STA. 34+00.00 ℄ 987.14 SCT1
B STA. 34+00.00 ℄ 988.23 DES4
AB STA. 34+00.00 ℄ 989.34 OT1

EXIST. R/W

CONST. LIMITS

EX. 8" V.C.P.

6" C.I.P.

980

EXIST. R/W

CONST. LIMITS

383	20	196

B STA. 33+50.00 ℄ 985.42 SCT2
B STA. 33+50.00 ℄ 987.42 SCT1
B STA. 33+50.00 ℄ 988.50 DES4
AB STA. 33+50.00 ℄ 989.28 OT1

EXIST. R/W

CONST. LIMITS

EX. 8" V.C.P.

VAR.

8" C.I.P.

980

EXIST. R/W

CONST. LIMITS

58	5	31

B STA. 33+42.00 ℄ 985.47 SCT2
B STA. 33+42.00 ℄ 987.47 SCT1
B STA. 33+42.00 ℄ 988.54 DES4
AB STA. 33+42.00 ℄ 989.24 OT1

EXIST. R/W

CONST. LIMITS

EX. 8" V.C.P.

VAR.

985

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

B STA. 33+00.00 ℄ 985.70 SCT2
B STA. 33+00.00 ℄ 987.70 SCT1
B STA. 33+00.00 ℄ 988.79 DES4
AB STA. 33+00.00 ℄ 989.25 OT1

EXIST. R/W

CONST. LIMITS

8" C.I.P.

SECTION LINE

VAR.

985

293	37	165

28-131

176	22	102

REVISED

STA. 33+00.00 TO 34+45.00 SCALE = 5 X 5

REVISED 3/31/92

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **28** OF **41** SHEETS

	EXCAVATION	EMBANKMENT	GRANULAR
	40	0	12
	445	0	163
	130	0	57
	63	0	26

B STA. 35+00.00 ℄ 984.58 SCT2
B STA. 35+00.00 ℄ 986.58 SCT1
B STA. 35+00.00 ℄ 987.67 DES4
AB STA. 35+00.00 ℄ 989.23 OT1

B STA. 34+97.00 ℄ 984.60 SCT2
B STA. 34+97.00 ℄ 986.60 SCT1
B STA. 34+97.00 ℄ 987.68 DES4
AB STA. 34+97.00 ℄ 989.22 OT1

B STA. 34+61.00 ℄ 984.80 SCT2
B STA. 34+61.00 ℄ 986.80 SCT1
B STA. 34+61.00 ℄ 987.88 DES4
AB STA. 34+61.00 ℄ 989.20 OT1

B STA. 34+50.00 ℄ 984.86 SCT2
B STA. 34+50.00 ℄ 986.86 SCT1
B STA. 34+50.00 ℄ 987.94 DES4
AB STA. 34+50.00 ℄ 989.24 OT1

EXIST. R/W
CONST. LIMITS
VAR.
8" C.I.P.
980
15" R.C.P.
EX. 8" V.C.P.
℄ ROSEWOOD LANE
SANITARY MH 22 RECONSTRUCT
SECTION LINE

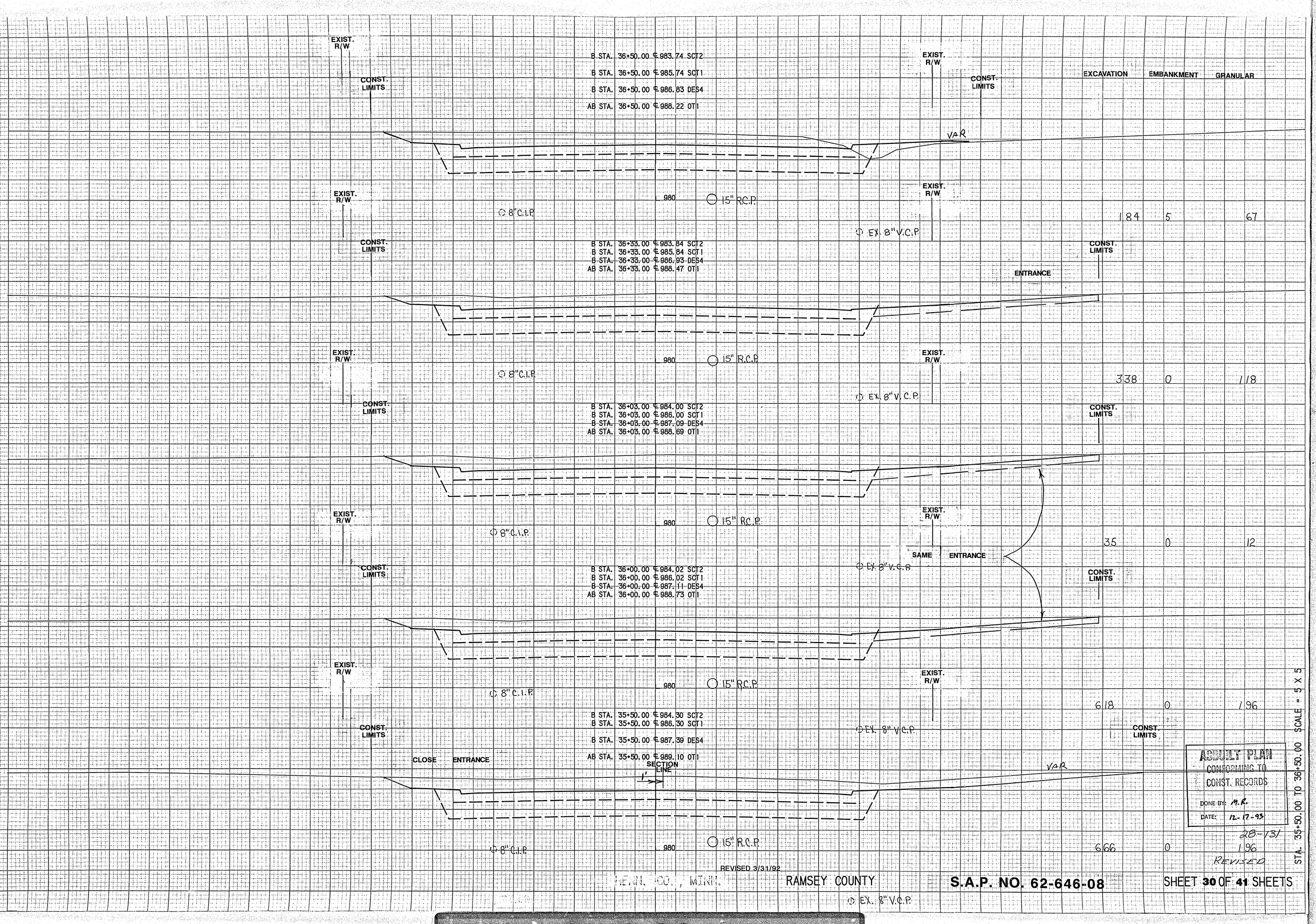
AS BUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

REVISED 3/31/92

STA. 34+50.00 TO 35+00.00 SCALE = 5 X 5

HENN. CO., MINN. RAMSEY COUNTY S.A.P. NO. 62-646-08 SHEET 29 OF 41 SHEETS

28-131
REVISED



REVISED 3/31/92

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **30** OF **41** SHEETS

B STA. 37+55.00 ℄ 982.93 SCT2
B STA. 37+55.00 ℄ 984.93 SCT1
B STA. 37+55.00 ℄ 986.01 DES4
AB STA. 37+55.00 ℄ 986.77 OT1

CONST. LIMITS

VAR

980

8"C.I.P.

15"R.C.P.

EXIST. R/W

CONST. LIMITS

EXIST. R/W

	EXCAVATION	EMBANKMENT	GRANULAR
	58	0	23

B STA. 37+50.00 ℄ 983.00 SCT2
B STA. 37+50.00 ℄ 985.00 SCT1
B STA. 37+50.00 ℄ 986.08 DES4
AB STA. 37+50.00 ℄ 986.88 OT1

CONST. LIMITS

SKILLMAN AVE.

VAR

980

8"C.I.P.

15"R.C.P.

EXIST. R/W

CONST. LIMITS

	292	0	124

B STA. 37+21.00 ℄ 983.31 SCT2
B STA. 37+21.00 ℄ 985.31 SCT1
B STA. 37+21.00 ℄ 986.39 DES4
AB STA. 37+21.00 ℄ 987.25 OT1

CONST. LIMITS

EXIST. R/W

ENTRANCE

VAR

980

8"C.I.P.

15"R.C.P.

EXIST. R/W

CONST. LIMITS

	172	0	82

B STA. 37+00.00 ℄ 983.46 SCT2
B STA. 37+00.00 ℄ 985.46 SCT1
B STA. 37+00.00 ℄ 986.55 DES4
AB STA. 37+00.00 ℄ 987.53 OT1

CONST. LIMITS

EXIST. R/W

980

8"C.I.P.

15"R.C.P.

8"V.C.P.

EXIST. R/W

CONST. LIMITS

	86	0	39

B STA. 36+90.00 ℄ 983.52 SCT2
B STA. 36+90.00 ℄ 985.52 SCT1
B STA. 36+90.00 ℄ 986.61 DES4
AB STA. 36+90.00 ℄ 987.66 OT1

CONST. LIMITS

ENTRANCE

SECTION LINE

980

8"C.I.P.

15"R.C.P.

8"V.C.P.

	394	11	157

REVISED 3/31/92

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

28-131
REVISED

STA. 36+90.00 TO 37+55.00 SCALE = 5 X 5

HENN. CO., MINN. RAMSEY COUNTY S.A.P. NO. 62-646-08 SHEET 31 OF 41 SHEETS

B STA. 38+50.00 ℄ 980.97 SCT2
B STA. 38+50.00 ℄ 982.97 SCT1
B STA. 38+50.00 ℄ 984.06 DES4
AB STA. 38+50.00 ℄ 984.74 OT1

B STA. 38+33.00 ℄ 981.42 SCT2
B STA. 38+33.00 ℄ 983.42 SCT1
B STA. 38+33.00 ℄ 984.51 DES4
AB STA. 38+33.00 ℄ 985.23 OT1

B STA. 38+09.00 ℄ 981.98 SCT2
B STA. 38+09.00 ℄ 983.98 SCT1
B STA. 38+09.00 ℄ 985.07 DES4
AB STA. 38+09.00 ℄ 985.66 OT1

B STA. 38+00.00 ℄ 982.17 SCT2
B STA. 38+00.00 ℄ 984.17 SCT1
B STA. 38+00.00 ℄ 985.26 DES4
AB STA. 38+00.00 ℄ 985.87 OT1

B STA. 37+85.00 ℄ 982.46 SCT2
B STA. 37+85.00 ℄ 984.45 SCT1
B STA. 37+85.00 ℄ 985.53 DES4
AB STA. 37+85.00 ℄ 986.14 OT1

EXIST. R/W
CONST. LIMITS
980
VAR
8" C.I.P.
15" R.C.P.
ENTRANCE
SECTION LINE

	EXCAVATION	EMBANKMENT	GRANULAR
	105	5	67
	145	8	86
	59	3	35
	112	5	59
	322	0	128

AS BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

28-131
REVISED

SCALE = 5 X 5
STA. 37+85.00 TO 38+50.00

HENN. CO., MINN. REVISED 3/31/92 RAMSEY COUNTY

S.A.P. NO. 62-646-08

SHEET 32 OF 41 SHEETS

B STA. 40+00.00 ℄ 977.92 SCT1
B STA. 40+00.00 ℄ 979.01 DES4
AB STA. 40+00.00 ℄ 980.06 OT1
B STA. 40+00.00 ℄ 975.93 SCT2

EXIST. R/W — CONST. LIMITS — SECTION LINE — RADIUS — CONST. LIMITS — EXIST. R/W

975

EXCAVATION	EMBANKMENT	GRANULAR
85	1	45

B STA. 39+90.00 ℄ 976.27 SCT2
B STA. 39+90.00 ℄ 978.27 SCT1
B STA. 39+90.00 ℄ 979.36 DES4
AB STA. 39+90.00 ℄ 980.35 OT1

⊙ 8" C.I.P. — ⊙ 8" V.C.P. — ⊙ 15" R.C.P. — EXIST. R/W — CONST. LIMITS — SECTION LINE — RADIUS — VAR — EXIST. R/W

975

EXCAVATION	EMBANKMENT	GRANULAR
275	1	141

B STA. 39+65.00 ℄ 977.14 SCT2
B STA. 39+65.00 ℄ 979.14 SCT1
B STA. 39+65.00 ℄ 980.23 DES4
AB STA. 39+65.00 ℄ 981.08 OT1

⊙ 8" C.I.P. — ⊙ 8" V.C.P. — ⊙ 15" R.C.P. — EXIST. R/W — CONST. LIMITS — SECTION LINE — SKILLMAN AVE. — VAR — CONST. LIMITS

975

EXCAVATION	EMBANKMENT	GRANULAR
179	0	87

B STA. 39+50.00 ℄ 977.67 SCT2
B STA. 39+50.00 ℄ 979.67 SCT1
B STA. 39+50.00 ℄ 980.76 DES4
AB STA. 39+50.00 ℄ 981.75 OT1

⊙ 8" C.I.P. — ⊙ 8" V.C.P. — ⊙ 15" R.C.P. — EXIST. R/W — CONST. LIMITS — SECTION LINE — RADIUS — VAR — EXIST. R/W — CONST. LIMITS

975

EXCAVATION	EMBANKMENT	GRANULAR
483	0	228

B STA. 39+00.00 ℄ 979.42 SCT2
B STA. 39+00.00 ℄ 981.41 SCT1
B STA. 39+00.00 ℄ 982.50 DES4
AB STA. 39+00.00 ℄ 983.46 OT1

⊙ 8" C.I.P. — ⊙ 15" R.C.P. — EXIST. R/W — CONST. LIMITS — SECTION LINE

975

EXCAVATION	EMBANKMENT	GRANULAR
389	0	196

REVISED 28-131

ACCEPTED AS CONFORMING TO CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

STA. 39+00.00 TO 40+00.00 SCALE = 5 X 5

HENN. CO., MINN. — RAMSEY COUNTY — ⊙ 15" R.C.P. — REVISED 3/31/92 — S.A.P. NO. 62-646-08 — SHEET 33 OF 41 SHEETS

EXCAVATION EMBANKMENT GRANULAR

EXIST. R/W

CONST. LIMITS

B STA. 41+84.00 ℄ 969.92 SCT2
B STA. 41+84.00 ℄ 971.91 SCT1
B STA. 41+84.00 ℄ 973.00 DES4
AB STA. 41+84.00 ℄ 974.11 OT1

ENTRANCE

960

297 47 133

EXIST. R/W

CONST. LIMITS

B STA. 41+50.00 ℄ 970.93 SCT2
B STA. 41+50.00 ℄ 972.93 SCT1
B STA. 41+50.00 ℄ 974.02 DES4
AB STA. 41+50.00 ℄ 975.31 OT1

VAR

965

419 43 196

EXIST. R/W

CONST. LIMITS

B STA. 41+00.00 ℄ 972.46 SCT2
B STA. 41+00.00 ℄ 974.46 SCT1
B STA. 41+00.00 ℄ 975.55 DES4
AB STA. 41+00.00 ℄ 976.82 OT1

970

425 19 196

EXIST. R/W

CONST. LIMITS

B STA. 40+50.00 ℄ 974.18 SCT2
B STA. 40+50.00 ℄ 976.18 SCT1
B STA. 40+50.00 ℄ 977.27 DES4
AB STA. 40+50.00 ℄ 978.43 OT1

970

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

410 8 202

28-131

REVISED

STA. 40+50.00 TO 41+84.00 SCALE = 5 X 5

Ø 8" C.I.P.

HENN. CO., MINN. RAMSEY COUNTY

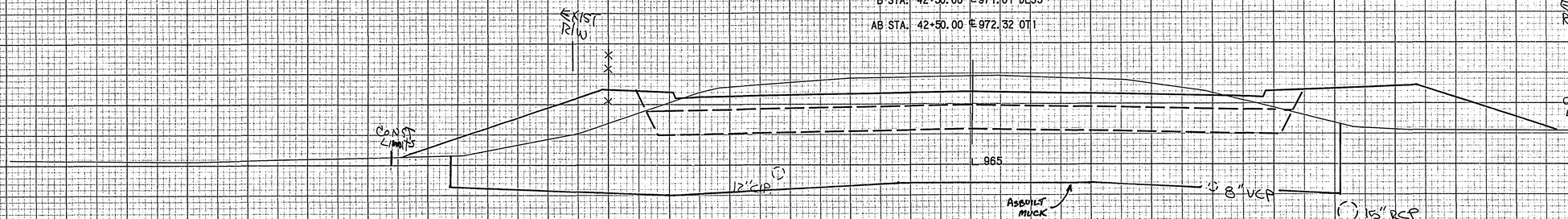
Ø 8" R.C.P. - 15" R.C.P.

S.A.P. NO. 62-646-08

SHEET 34 OF 41 SHEETS

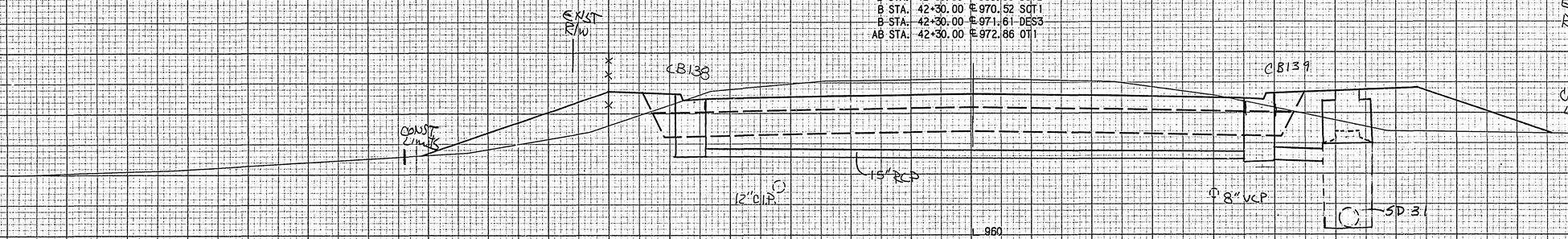
B STA. 40+00.00 ℄ 975.93 SCT2

B STA. 42+50.00 ℄ 967.93 SCT2
B STA. 42+50.00 ℄ 969.92 SCT1
B STA. 42+50.00 ℄ 971.01 DES3
AB STA. 42+50.00 ℄ 972.32 OT1



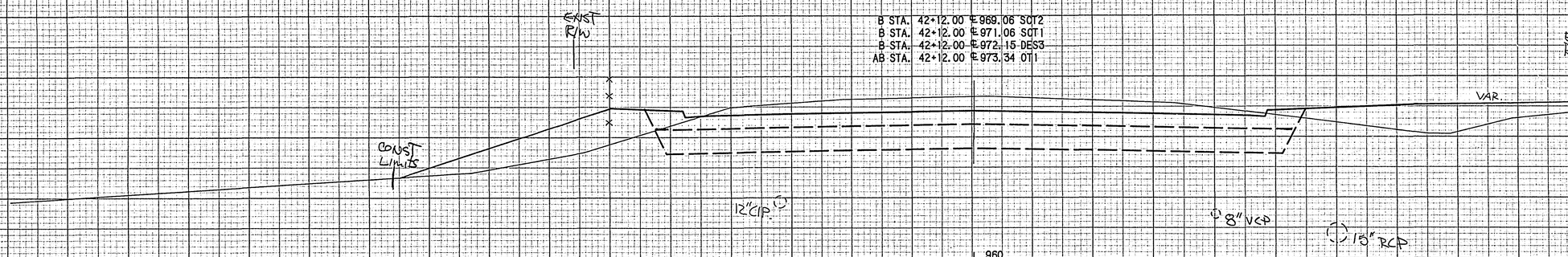
EXCAVATION	EMBANKMENT	GRANULAR
190	96	99
150	73	79

B STA. 42+30.00 ℄ 968.53 SCT2
B STA. 42+30.00 ℄ 970.52 SCT1
B STA. 42+30.00 ℄ 971.61 DES3
AB STA. 42+30.00 ℄ 972.86 OT1



136	63	71

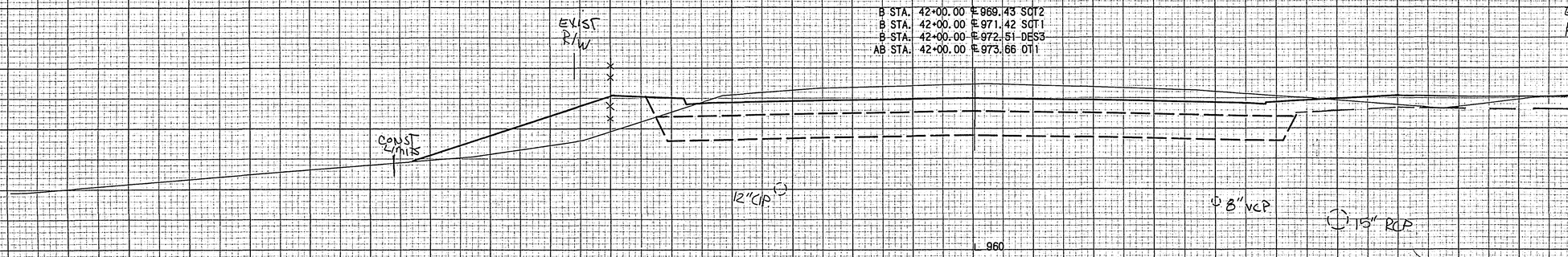
B STA. 42+12.00 ℄ 969.06 SCT2
B STA. 42+12.00 ℄ 971.06 SCT1
B STA. 42+12.00 ℄ 972.15 DES3
AB STA. 42+12.00 ℄ 973.34 OT1



96	33	47

ENTRANCE

B STA. 42+00.00 ℄ 969.43 SCT2
B STA. 42+00.00 ℄ 971.42 SCT1
B STA. 42+00.00 ℄ 972.51 DES3
AB STA. 42+00.00 ℄ 973.66 OT1



140	30	63

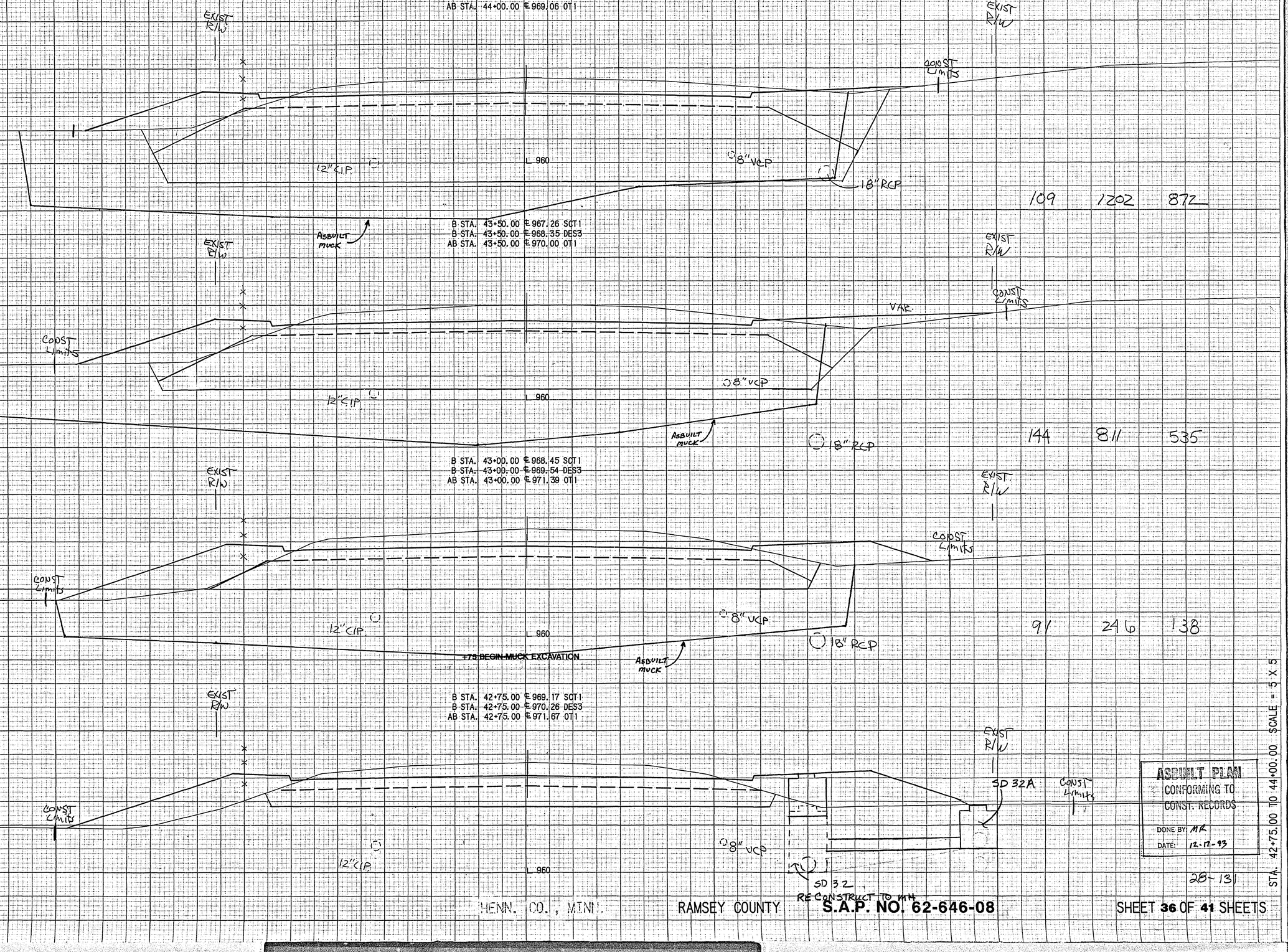
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-93

28-131

STA. 42+00.00 TO 42+50.00 SCALE = 5 X 5

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **35** OF **41** SHEETS

	EMBANKMENT	MUCK EXCAVATION	GRANULAR
B STA. 44+00.00 ℄ 966.34 SCT1 B STA. 44+00.00 ℄ 967.43 DES3 AB STA. 44+00.00 ℄ 969.06 OT1	109	1202	872
B STA. 43+50.00 ℄ 967.26 SCT1 B STA. 43+50.00 ℄ 968.35 DES3 AB STA. 43+50.00 ℄ 970.00 OT1	144	811	535
B STA. 43+00.00 ℄ 968.45 SCT1 B STA. 43+00.00 ℄ 969.54 DES3 AB STA. 43+00.00 ℄ 971.39 OT1	91	246	138
B STA. 42+75.00 ℄ 969.17 SCT1 B STA. 42+75.00 ℄ 970.26 DES3 AB STA. 42+75.00 ℄ 971.67 OT1	28	131	



HENN. CO., MINN. RAMSEY COUNTY S.A.P. NO. 62-646-08 SHEET 36 OF 41 SHEETS

B STA. 45+50.00 ℄ 965.40 SCT1
B STA. 45+50.00 ℄ 966.49 DES3
AB STA. 45+50.00 ℄ 968.09 OT1

B STA. 45+15.00 ℄ 965.38 SCT1
B STA. 45+15.00 ℄ 966.47 DES3
AB STA. 45+15.00 ℄ 968.03 OT1

B STA. 45+00.00 ℄ 965.42 SCT1
B STA. 45+00.00 ℄ 966.51 DES3
AB STA. 45+00.00 ℄ 968.00 OT1

B STA. ~~44+80.50~~ +50 ℄ 965.51 SCT1
B STA. 44+80.00 ℄ 966.60 DES3
AB STA. 44+80.00 ℄ 967.89 OT1

B STA. 44+50.00 ℄ 965.74 SCT1
B STA. 44+50.00 ℄ 966.83 DES3
AB STA. 44+50.00 ℄ 968.00 OT1

	EMBANKMENT	MUCK EXCAVATION	GRANULAR
	86	1080	640
RADIUS	31	414	312
ELDRIDGE			
℄ ELDRIDGE	33	624	465
	31	897	683
RADIUS			
ELDRIDGE			
	93	1375	1053

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: MR
DATE: 12-17-93

28-131

STA. 44+50.00 TO 45+50.00 SCALE = 5 X 5

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08** SHEET **37** OF **41** SHEETS

B STA. 47+35.00 ℄ 966.78 SCT1

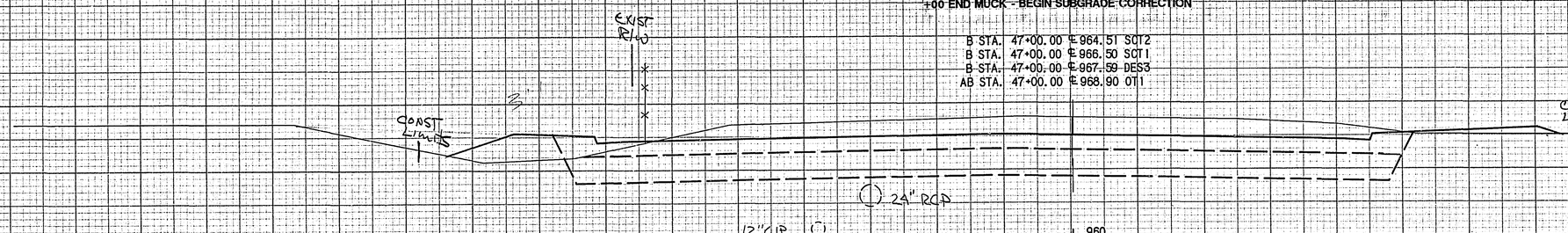
B STA. 47+35.00 ℄ 967.87 DES3

AB STA. 47+35.00 ℄ 969.29 OT1

	EXCAVATION	EMBANKMENT	MUCK EXCAVATION	GRANULAR
ENTRANCE				
	349	52		162

+00 END MUCK - BEGIN SUBGRADE CORRECTION

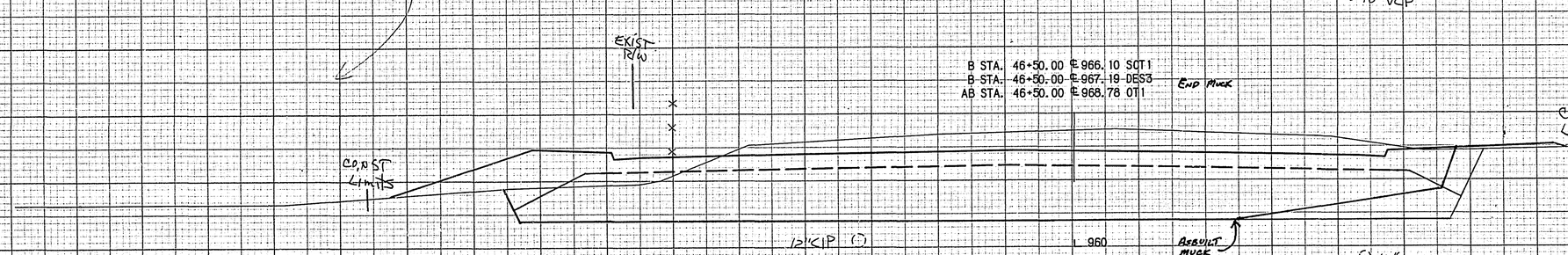
B STA. 47+00.00 ℄ 964.51 SCT2
B STA. 47+00.00 ℄ 966.50 SCT1
B STA. 47+00.00 ℄ 967.59 DES3
AB STA. 47+00.00 ℄ 968.90 OT1



	78	599		358

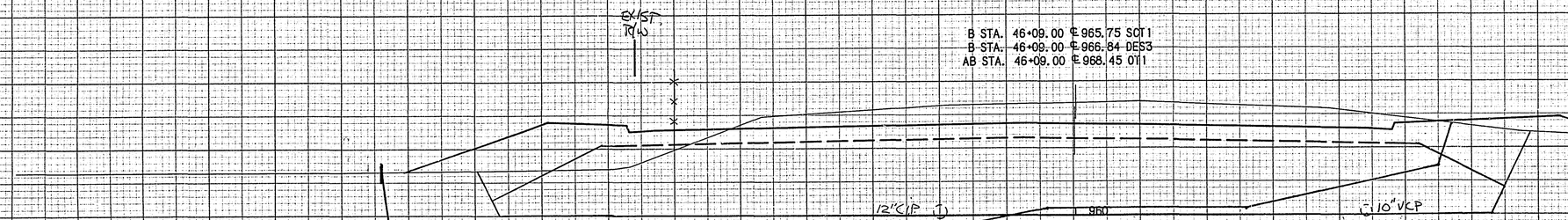
B STA. 46+50.00 ℄ 966.10 SCT1
B STA. 46+50.00 ℄ 967.19 DES3
AB STA. 46+50.00 ℄ 968.78 OT1

END MUCK



	71	708		495

B STA. 46+09.00 ℄ 965.75 SCT1
B STA. 46+09.00 ℄ 966.84 DES3
AB STA. 46+09.00 ℄ 968.45 OT1

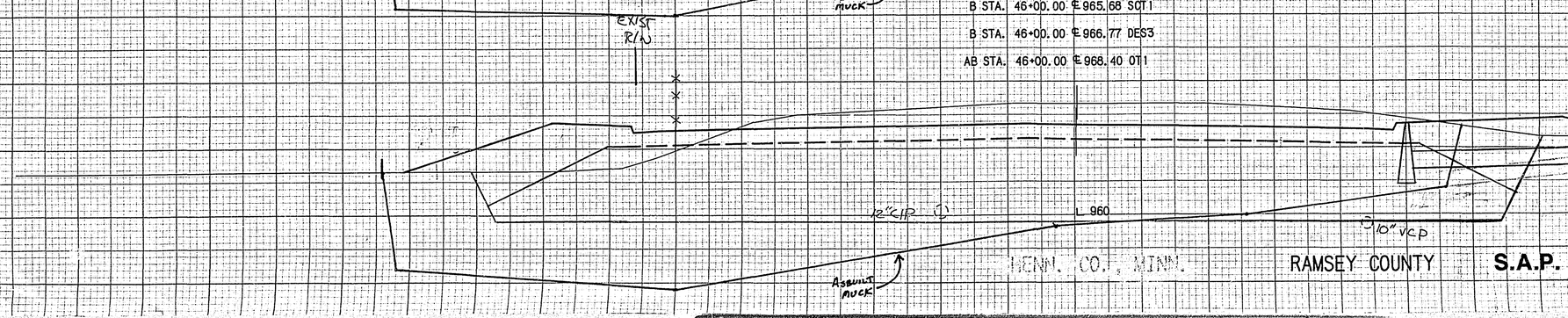


	18	185		136

B STA. 46+00.00 ℄ 965.68 SCT1

B STA. 46+00.00 ℄ 966.77 DES3

AB STA. 46+00.00 ℄ 968.40 OT1



	111	1445		833

				28-131

AS-BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.R.
DATE: 12-17-97

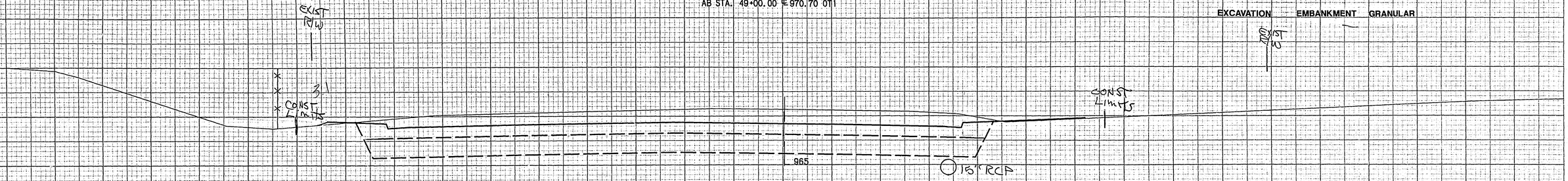
STA. 46+00.00 TO 47+35.00 SCALE = 5 X 5

HENN. CO., MINN. RAMSEY COUNTY **S.A.P. NO. 62-646-08**

B STA. 49+00.00 ℄968.13 SCT1

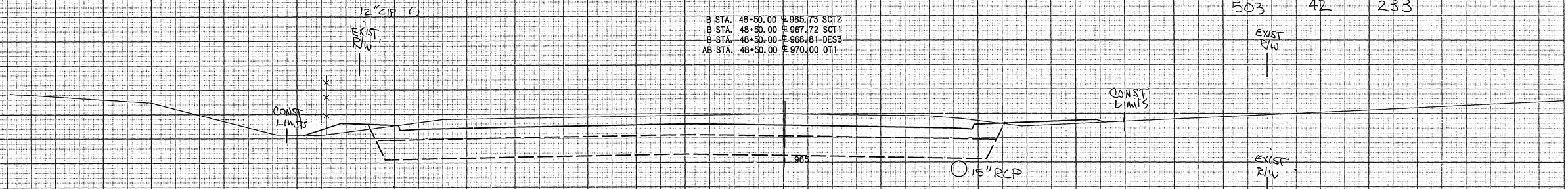
B STA. 49+00.00 ℄969.22 DES3

AB STA. 49+00.00 ℄970.70 OT1



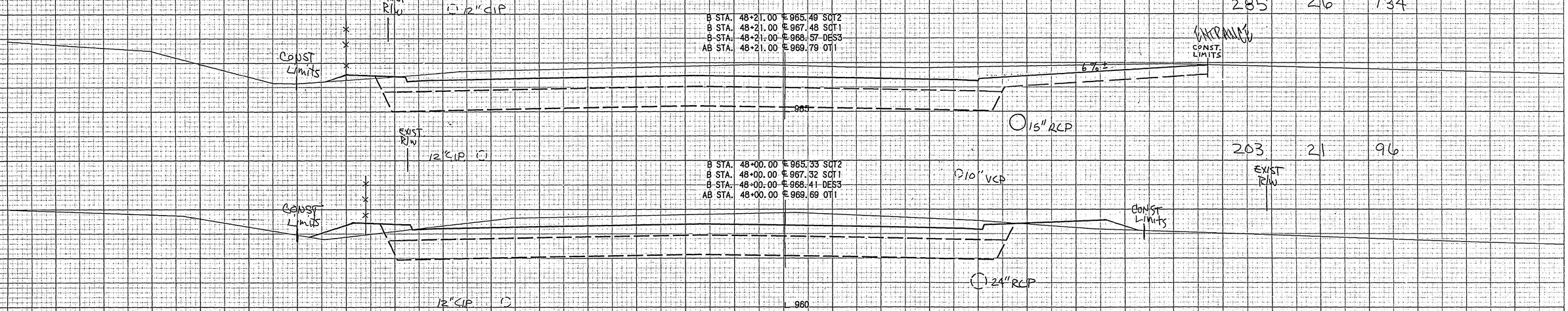
EXCAVATION	EMBANKMENT	GRANULAR
503	42	233

B STA. 48+50.00 ℄965.73 SCT2
B STA. 48+50.00 ℄967.72 SCT1
B STA. 48+50.00 ℄968.81 DES3
AB STA. 48+50.00 ℄970.00 OT1



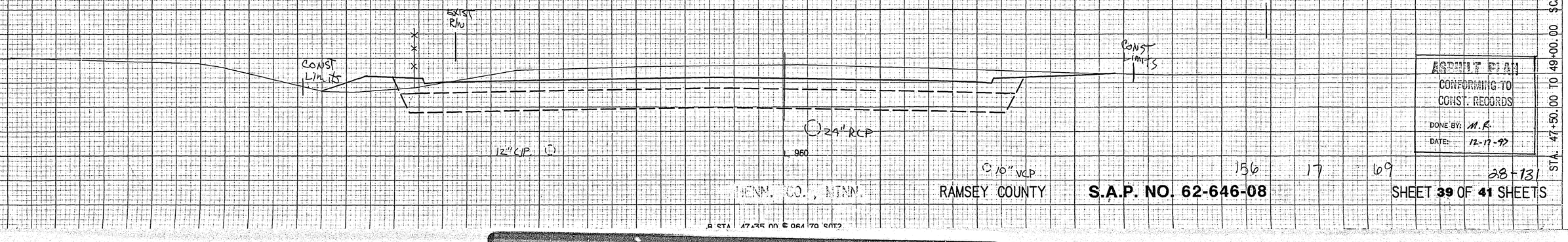
285	26	134

B STA. 48+21.00 ℄965.49 SCT2
B STA. 48+21.00 ℄967.48 SCT1
B STA. 48+21.00 ℄968.57 DES3
AB STA. 48+21.00 ℄969.79 OT1



203	21	96

B STA. 47+50.00 ℄964.92 SCT2
B STA. 47+50.00 ℄966.91 SCT1
B STA. 47+50.00 ℄968.00 DES3
AB STA. 47+50.00 ℄969.37 OT1



487	55	230
156	17	69

AS BUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.K.
DATE: 12-17-97

STA. 47+50.00 TO 49+00.00 SCALE = 5 X 5

HENN. CO., MINN.

RAMSEY COUNTY

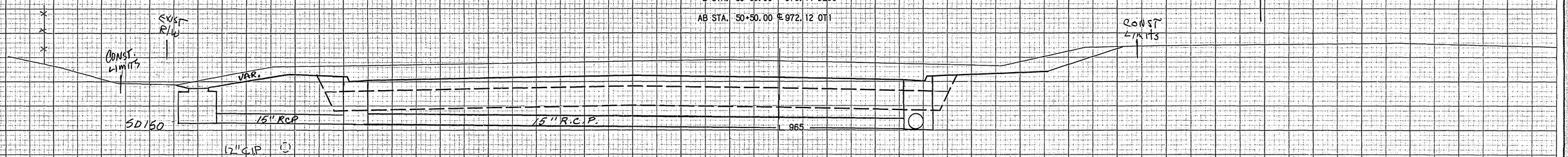
S.A.P. NO. 62-646-08

28-131

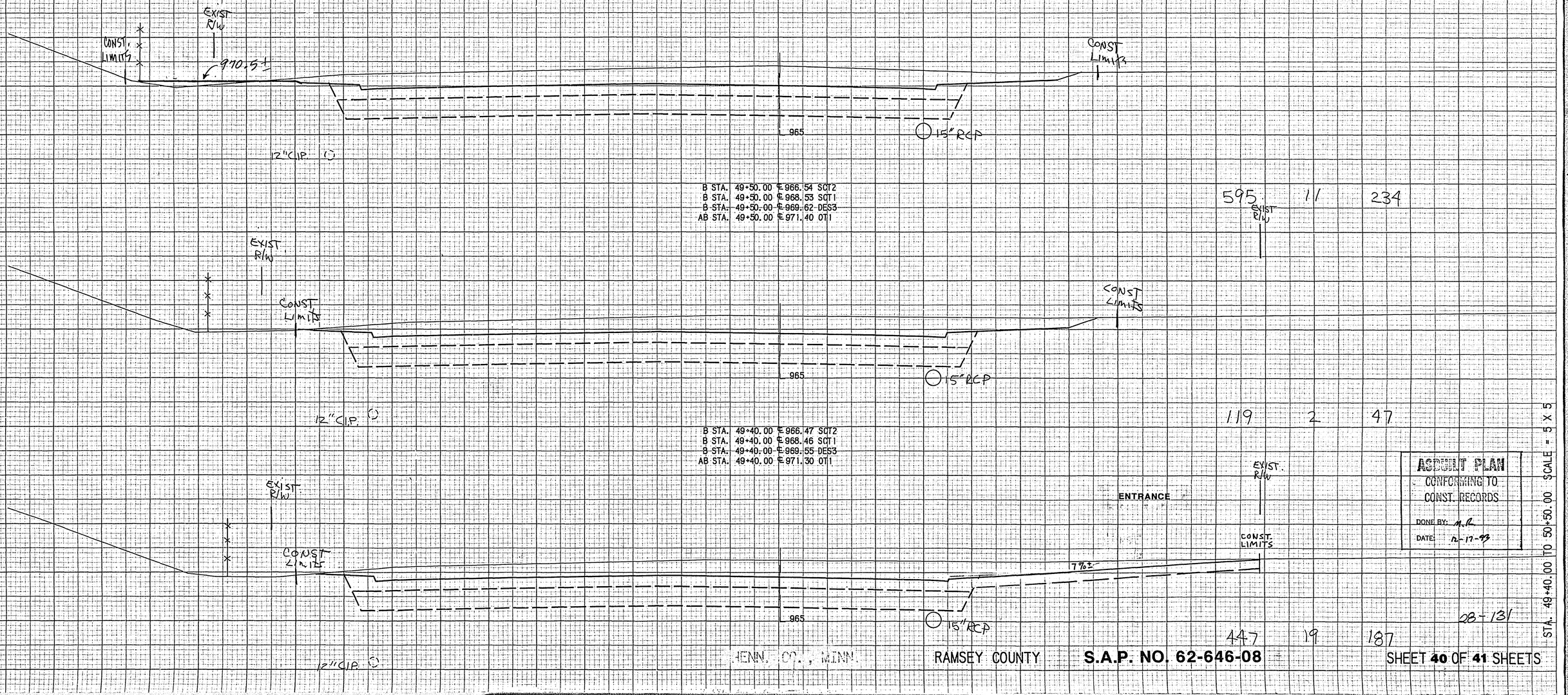
SHEET **39** OF **41** SHEETS

	EXCAVATION	EMBANKMENT	GRANULAR
603	11	236	
595	11	234	
119	2	47	
447	19	187	

B STA. 50+50.00 ℄ 967.36 SOT2
B STA. 50+50.00 ℄ 969.35 SOT1
B STA. 50+50.00 ℄ 970.44 DES3
AB STA. 50+50.00 ℄ 972.12 OT1



B STA. 50+00.00 ℄ 966.95 SOT2
B STA. 50+00.00 ℄ 968.94 SOT1
B STA. 50+00.00 ℄ 970.03 DES3
AB STA. 50+00.00 ℄ 972.11 OT1



B STA. 49+50.00 ℄ 966.54 SOT2
B STA. 49+50.00 ℄ 968.53 SOT1
B STA. 49+50.00 ℄ 969.62 DES3
AB STA. 49+50.00 ℄ 971.40 OT1

B STA. 49+40.00 ℄ 966.47 SOT2
B STA. 49+40.00 ℄ 968.46 SOT1
B STA. 49+40.00 ℄ 969.55 DES3
AB STA. 49+40.00 ℄ 971.30 OT1

AS BUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: M.R
DATE: 2-17-93

STA. 49+40.00 TO 50+50.00 SCALE - 5 X 5

28-131

HENN. CO., MINN. | RAMSEY COUNTY | **S.A.P. NO. 62-646-08** | SHEET **40** OF **41** SHEETS

EARTHWORK SUMMARY

COMMON EXCAVATION (INCLUDES BITUMINOUS)

0+00 - 26+33.67	21190 C.Y.	
26+33.67 - 52+58.62	19271 C.Y.	
	40461 C.Y.	40461 C.Y.

UNCLASSIFIED EXCAVATION

0+00 - 26+33.67	15,134 C.Y. - 851 C.Y. (SALVAGED TOPSOIL) = 14283 C.Y.	
26+33.67 - 52+58.62	Ø C.Y.	
	14283 C.Y.	+14283 C.Y.
	EXCESS	54744 C.Y.

EMBANKMENT

0+00 - 26+33.67	3172 C.Y. x 1.3 =	4124 C.Y.
26+33.67 - 52+58.62	2450 C.Y. x 1.3 =	3185 C.Y.
	7309 C.Y.	-7309 C.Y.
	EXCESS =	47435 C.Y.

MUCK EXCEDATION

0+00 - 26+33.67	Ø C.Y.	
26+33.67 - 52+58.62	9587 C.Y.	+ 9587 C.Y.
	TOTAL EXCESS =	57022 C.Y.

GRANULAR BORROW

0+00 - 26+33.67	5749 C.Y. x 1.5 = 8624 C.Y.
26+33.67 - 52+58.62	10,250 C.Y. x 1.5 = 15375 C.Y.

SELECT GRANULAR BORROW

0+00 - 26+33.67	5706 C.Y. x 1.5 = 7418 C.Y.
26+33.67 - 52+58.62	5706 C.Y. x 1.5 = 7418 C.Y.

EXCAVATION	EMBANKMENT	GRANULAR
118	6	

CO. RD. B

AB STA. 52+50.00 ℄ 971.94 OT1

970

STA. 52+37
END CONSTRUCTION
AS DIRECTED

RADIUS

AB STA. 52+27.00 ℄ 972.17 OT1

RADIUS

970

B STA. 52+00.00 ℄ 968.61 SOT2
B STA. 52+00.00 ℄ 970.60 SOT1
B STA. 52+00.00 ℄ 971.70 DES3
AB STA. 52+00.00 ℄ 972.24 OT1

EXIST R/W

CONST LIMITS

CONST LIMITS

12" CIP

965

END TAPER 51+50 RT. & LT.

B STA. 51+50.00 ℄ 968.18 SOT2
B STA. 51+50.00 ℄ 970.17 SOT1
B STA. 51+50.00 ℄ 971.26 DES3
AB STA. 51+50.00 ℄ 972.29 OT1

242 17

EXIST R/W

EXIST R/W

CONST LIMITS

CONST LIMITS

965

SUBCUT TAPER

B STA. 51+00.00 ℄ 967.77 SOT2
B STA. 51+00.00 ℄ 969.76 SOT1

B STA. 51+00.00 ℄ 970.85 DES3

AB STA. 51+00.00 ℄ 972.32 OT1

415 12 119

EXIST R/W

CONST LIMITS

12" CIP

12" CIP

965

ABSENT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: M.F.
DATE: 12-17-93

28-131

586 11 237

REVISED 4/24/92 DM

HENN. CO., MINN.

RAMSEY COUNTY

S.A.P. NO. 62-646-08

SHEET **41** OF **41** SHEETS

STA. 51+00.00 TO 52+50.00 SCALE = 5 X 5

2 4 X