PLANS SYMBOLS

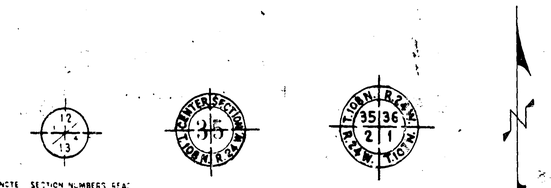
STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT-OF-WAY 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

SPRINGS
MARSH
TIMBER
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 — G
SAND PIT — S
BORROW PIT — B
ROCK QUARRY — Q

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 —
WATER MAIN — I —

CONDUIT
TELEPHONE CABLE IN CONDUIT — T
ELECTRIC CABLE IN CONDUIT — P
TELEPHONE MANHOLE — T
ELECTRIC MANHOLE — P
BURIED TELEPHONE CABLE — T-BUR
BURIED ELECTRIC CABLE — P-BUR
AERIAL TELEPHONE CABLE — T-AE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



NOTE SECTION NUMBERS READ FROM THE SOUTH

PIT DATA

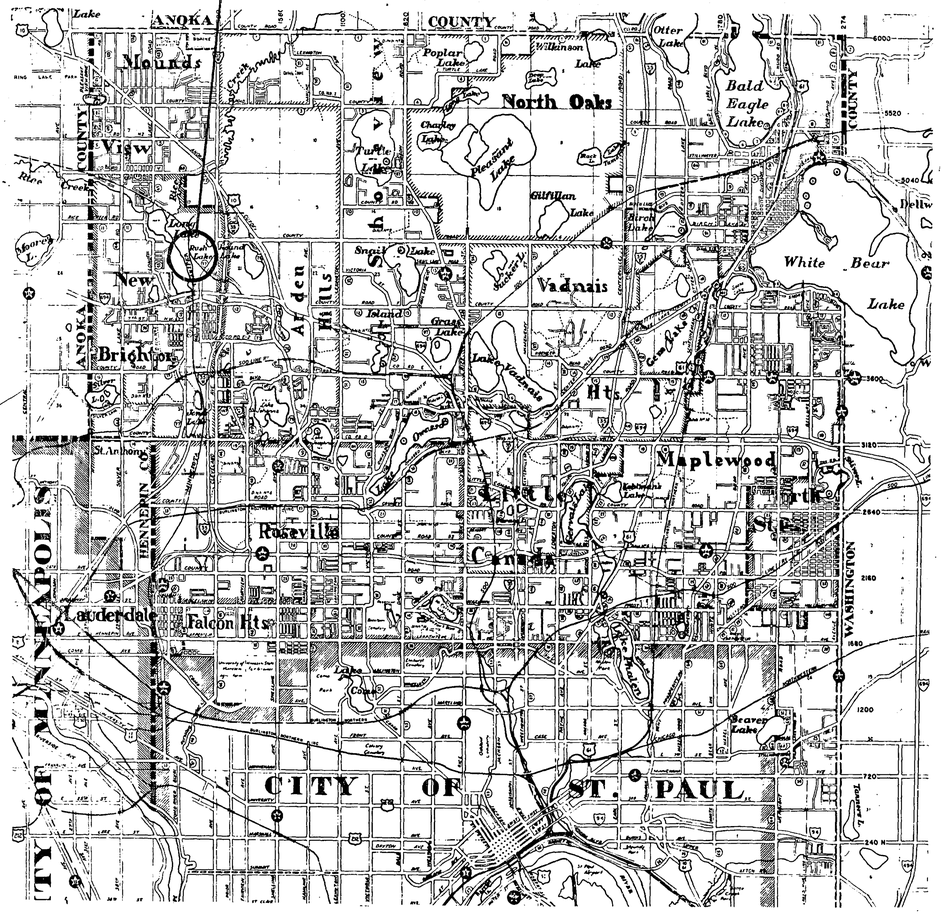
PIT NO. _____ Located in _____
Dead Haul _____

PIT NO. _____ Located in _____
Dead Haul _____

GOVERNING SPECIFICATIONS

THE 1983 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

PROJECT LOCATION



RAMSEY COUNTY
PARKS AND RECREATION DEPARTMENT

PLANS FOR CONSTRUCTION OF ENTRANCE ROAD, PARKING LOTS, UTILITIES, SITE GRADING, AND TURF ESTABLISHMENT AT

LONG LAKE REGIONAL PARK

IN THE CITY OF NEW BRIGHTON

PROJECT NO. SG82115-1

ACCOUNT NO. 47261

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATED QUANTITIES
3	TYPICAL SECTIONS, STANDARD PLATES, CONSTRUCTION NOTES.
4	PROJECT LAYOUT
5	MISCELLANEOUS REMOVALS
6	SALVAGED TOPSOIL & MUCK
7-10	GRADING PLANS
11-14	GRADING PLANS - CUTS & FILLS BY AREA
15-19	ROADWAY PLAN & PROFILE
20-22	PARKING LOT PLANS
23	UTILITY SYSTEM LAYOUT
24-31	UTILITY PLANS
32-33	UTILITY DETAILS, RAILROAD GRADE CROSSING
34	DRAINAGE CHART & UTILITY DETAILS
35	TURF ESTABLISHMENT PLAN
36-61	ROADWAY CROSS SECTIONS
62	TRASH ENCLOSURE.

RECOMMENDED FOR APPROVAL _____ TRAFFIC ENGR. DATE _____

RECOMMENDED FOR APPROVAL _____ ENV. ENGR. DATE _____

RECOMMENDED FOR APPROVAL _____ MAINT. ENGR. DATE _____

RECOMMENDED FOR APPROVAL _____ CONST. ENGR. DATE _____

RECOMMENDED FOR APPROVAL _____ DESIGN ENGR. DATE _____

RECOMMENDED FOR APPROVAL _____ R.O.W. ENGR. DATE _____

APPROVED Mark F. Thomas COORDINATING ENGR. DATE 8-17-84

APPROVED Arthur J. Gisa DIRECTOR, RAMSEY COUNTY PARKS & RECREATION DEPT. DATE 8-20-84

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 8-17-84 REG. NO. 12262 ENGR. Kenneth C. Simons

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 8-17-84 REG. NO. 13501 ENGR. Larry K. Fullaba

PLAN REVISIONS		
DATE	SHEET NO.	BY

PROJECT NO. SG82115-1 **Sheet No. 1 of 62 Sheets**

26-131

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
2021.501	MOBILIZATION	L.S.	1	
100.606	TRASH CONTAINER ENCLOSURE	STRUCTURE	3	
2101.501	CLEARING OF BRUSH	ACRE	1.05	
2101.507	GRUBBING	TREE	98	
2105.507	EXCAVATION INTERIM STORAGE BASIN	C.Y.	1,500	
2104.501	REMOVE CONCRETE CURB AND GUTTER	L.F.	146	
2104.505	REMOVE CONCRETE MEDIAN	S.Y.	21.5	
2104.513	SAWING BITUMINOUS PAVEMENT	L.F.	90	
2104.507	REMOVE PETROLEUM PRODUCT RESIDUE	C.Y.	1,100	
2104.507	REMOVE CONCRETE SLABS	C.Y.	100(P)	
2104.507	REMOVE RUBBLE/SOIL PILE	C.Y.	1,629(P)	
2104.507	REMOVE ROUNDWOOD/SOIL PILE	C.Y.	416(P)	
2104.523	SALVAGE 24" R.C. PIPE APRON	EACH	1	
2105.501	COMMON EXCAVATION—ROAD	C.Y.	14,798(P)	
2105.501	COMMON EXCAVATION—SITE	C.Y.	124,534(P)	
2105.505	MUCK EXCAVATION	C.Y.	10,112(P)	
2105.511	INTERIM MULCH MATERIAL, TYPE I	TON	123.2	
2105.519	INTERIM DISC ANCHORING	ACRE	61.6	
2105.522	BEACH SAND BORROW (LV)	C.Y.	1,150	
2105.535	SALVAGED TOPSOIL	C.Y.	22,113(P)	
2130.501	WATER	(M) GAL	100	
2211.501	AGGREGATE BASE, CLASS 2	TON	464(P)	
2211.501	AGGREGATE BASE, CLASS 5 (ROADWAY)	TON	6,887(P)	
2211.501	AGGREGATE BASE, CLASS 5 (PARKING LOTS)	TON	5,978(P)	
2301.501	CONCRETE PAVEMENT	S.Y.	423	
2301.521	PAVEMENT REINFORCEMENT, TYPE 12x12 D5.8xW4.0 **	S.Y.	423	
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	158	
2331.510	BINDER COURSE MIXTURE	TON	3,512	
2211.501	AGGREGATE BASE, CLASS 5 (CONCRETE WALK & PAVEMENT)	TON	458(P)	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	211	
2341.508	WEARING COURSE MIXTURE	TON	3,512	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	1,596	
2451.507	GRANULAR BEDDING (C.V.)	C.Y.	972	
2105.501	COMMON EXCAVATION — PARKING LOTS	C.Y.	14,491(P)	
501.602	F & I TRASH GUARD FOR 24" R.C.P. APRON	EACH	3	
501.602	F & I TRASH GUARD FOR 30" R.C.P. APRON	EACH	2	
2501.515	15" R.C. PIPE APRONS	EACH	5	
2501.515	18" R.C. PIPE APRONS	EACH	2	
2501.515	24" R.C. PIPE APRONS	EACH	3	
2503.511	24" R.C. PIPE SEWER, DESIGN 3006,	L.F.	48	
2503.541	15" R.C. PIPE SEWER, DESIGN 3006, CLASS III	L.F.	1,210	
2503.541	18" R.C. PIPE SEWER, DESIGN 3006, CLASS III	L.F.	217	
2503.541	24" R.C. PIPE SEWER, DESIGN 3006, CLASS III	L.F.	572	
2503.541	24" R.C. PIPE SEWER, DESIGN 3006, CLASS IV	L.F.	380	
2503.541	24" R.C. PIPE SEWER, DESIGN 3006, CLASS V JACKED	L.F.	128	
2503.541	30" R.C. PIPE SEWER, DESIGN 3006, CLASS II	L.F.	252	
2503.573	INSTALL 24" REINFORCED CONCRETE APRON	EACH	1	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-4	EACH	3	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-5	EACH	7	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-6	EACH	1	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-7	EACH	1	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-8	EACH	2	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-9	EACH	1	
2506.509	CONSTRUCT CATCH BASIN, DESIGN LP-4-11	EACH	2	
2506.509	CONSTRUCT CATCH BASIN, DESIGN RC2	EACH	6	
2506.508	CONSTRUCT MANHOLES, DESIGN A OR F	EACH	2	
2511.507	GROUTED RIPRAP	C.Y.	7	
2511.505	HANDPLACED RIPRAP	C.Y.	45	
2511.511	GRANULAR FILTER	C.Y.	26.5	
511.601	GEOTEXTILE FILTER TYPE III	S.Y.	417	
511.602	GRANULAR BEDDING SPECIAL--CA-3 (LV)	C.Y.	178	
2561.501	BITUMINOUS DEEP STRENGTH RAILROAD GRADE CROSSING	LUMP SUM	1	
2501.515	30" R.C. PIPE APRONS	EACH	2	
503.603	SEWER PIPE 6" P.V.C. 0'-10' TRENCHING	L.F.	672	
503.603	SEWER PIPE 6" P.V.C 10'-15' TRENCHING	L.F.	193	
503.603	SEWER PIPE 8" P.V.C. 0'-10' TRENCHING	L.F.	2,018	
503.603	SEWER PIPE 8" P.V.C. 10'-15' TRENCHING	L.F.	1,988	
503.603	SEWER PIPE 8" P.V.C. 15'-20' TRENCHING	L.F.	639	
503.603	SEWER PIPE 8" P.V.C. 20'-25' TRENCHING	L.F.	176	
503.602	CONNECT TO EXISTING SANITARY SEWER	EACH	2	
503.606	SANITARY SEWER SERVICE CONNECTION	CONNECTION	2	
503.603	8" DUCTILE IRON PIPE SEWER IN SLEEVE	L.F.	190	
503.603	16" STEEL CASING PIPE — JACKED	L.F.	190	
503.603	STANDARD SANITARY SEWER MANHOLES	L.F.	247	
503.602	CASTING ASSEMBLY	EACH	23	
503.602	INSTALL CASTING	EACH	23	
504.602	HYDRANT	EACH	7	
504.602	6" PIPE BEND 11.25	EACH	7	
504.602	6" PIPE BEND 22.5	EACH	6	
504.602	6" PIPE BEND 45	EACH	10	
504.602	6" PIPE BEND 90	EACH	1	
504.602	6" GATE VALVE AND BOX	EACH	13	
504.602	6" PIPE PLUG	EACH	2	
504.602	8"x6" TEE FITTING	EACH	1	
504.602	6"x6" TEE FITTING	EACH	8	
504.602	6"x6" CROSS	EACH	1	
504.602	WATER SERVICE GROUP	EACH	2	
504.603	1¼" COPPER SERVICE PIPE	L.F.	40	
504.603	6" WATERMAIN - DUCTILE IRON CLASS 51	L.F.	8,410	
504.603	6" WATERMAIN - DUCTILE IRON CLASS 51 ENCASING	L.F.	130	
504.603	12" STEEL CASING PIPE	L.F.	130	

** OR TYPE 12x12W6.2xW4.0

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	ESTIMATED QUANTITIES	FINAL ESTIMATED QUANTITIES
504.604	WATERMAIN INSULATION 2"	S.Y.	46	
2521.501	4" CONCRETE WALK	S.F.	11,665	
2531.501	CONCRETE CURB AND GUTTER, DESIGN B618	L.F.	19,475	
564.605	4" SOLID LINE WHITE PAINT	GAL.	19	
2575.501	ROADSIDE SEEDING	ACRE	51.3	
2575.502	SEED MIXTURE A	POUND	448	
2575.502	SEED MIXTURE B	POUND	2,000	
2575.502	SEED MIXTURE C	POUND	5,760	
2575.505	SODDING	S.Y.	3,972	
2575.531	COMMERCIAL FERTILIZER ANALYSIS 13-0-44	TON	5.2	
2575.511	MULCH MATERIAL, TYPE I	TON	102.6	
2575.519	DISC ANCHORING	ACRE	51.3	
2575.545	HERBICIDE APPLICATION	ACRE	40	
2575.547	HERBICIDE MIXTURE	GAL.	30	
575.603	SILT CURTAIN TYPE B	L.F.	1,200	
575.603	SILT CURTAIN 12"x 18" PLATES	EACH	90	
411.602	PICNIC TABLE SUPPORT POST	EACH	5	
0105.609	REINFORCED BASIN LINER	S.Y.	1,467	

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

Kenneth C. Simmons

DATE 8-17-84 REG. NO. 12262

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

Larry K. Feldhaus

DATE 8-17-84 REG. NO. 13501

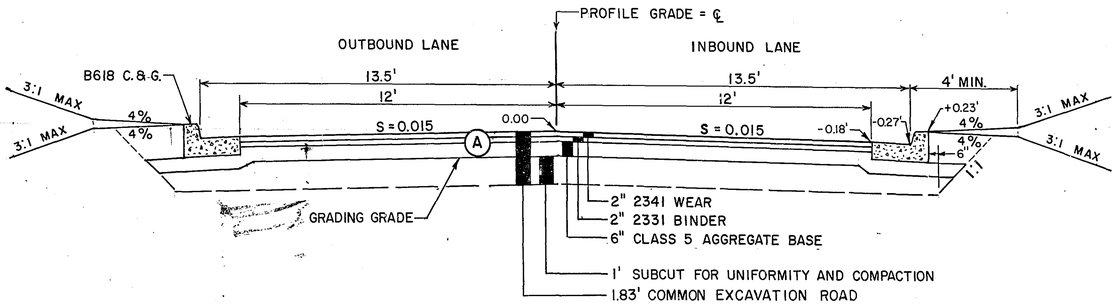
ESTIMATED QUANTITIES

PROJECT NO. SG82115-1

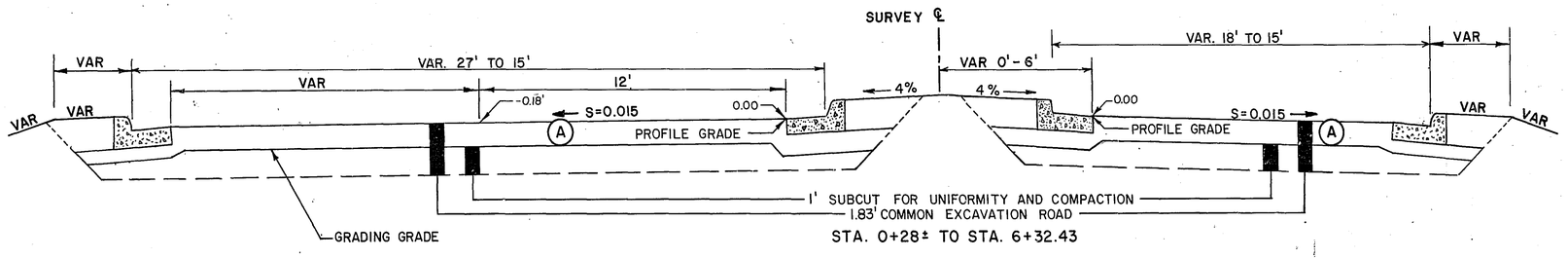
26-131

STANDARD DETAIL PLATES

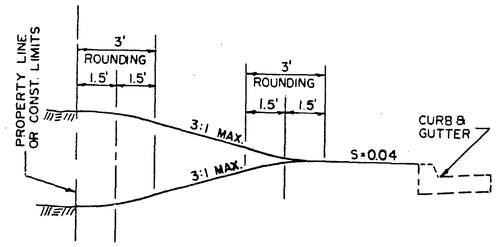
0004A	SPECIFICATION REFERENCE TO STANDARD PLATES
1018	CONCRETE PAVEMENT
3000I	REINFORCED CONCRETE PIPE
3006D	GASKET JOINT FOR R.C. PIPE
3100F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133A	RIPRAP AT R.C.P. OUTLETS
3145C	CONCRETE PIPE TIES
4000I	MANHOLE OR CATCH BASIN
4005K	MANHOLE OR CATCH BASIN
4010F	CONCRETE SHORT CONE & ADJUSTING RING
4011D	PRECAST CONCRETE BASE
4021C	PRECAST CURB OPENING CATCH BASIN
4101C	RING CASTING FOR MANHOLE OR CATCH BASIN
4108E	MANHOLE ADJUSTING RINGS
4110D	COVER CASTING FOR MANHOLE
4140D	SPECIAL GRATE CASTING FOR CATCH BASIN
4180G	MANHOLE OR CATCH BASIN STEP
7100F	CONCRETE CURB AND GUTTER
8000H	STANDARD BARRICADES
9102C	SODDING AT PIPE CULVERT ENDS



STA. 6+32.43 TO STA. 66 ±



STA. 0+28 ± TO STA. 6+32.43



SLOPE ROUNDING DETAIL

ROADWAY CONSTRUCTION NOTES

PARKING LOTS SHALL BE STRIPED.

THE CONTRACTOR SHALL OBTAIN FROM THE UTILITY COMPANIES, THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES WHICH HE MAY ENCOUNTER IN THE PERFORMANCE OF HIS WORK.

REVERSE GUTTER LOCATIONS ARE SHOWN ON PARKING LOT PLAN SHEETS.

SITE GRADING OPERATIONS WILL GRADE TO THE APPROXIMATE FINISH GRADE OF ROAD.

SEE APPROPRIATE CROSS SECTION SHEETS FOR MUCK EXCAVATION WIDTHS.

TOP OF "GRADING GRADE" IS DEFINED AS THE TOP OF THE EMBANKMENT MATERIAL OR THE BOTTOM OF THE AGGREGATE BASE COURSE.

UNSUITABLE GRADING MATERIAL SHALL CONSIST OF TOPSOIL, OTHER ORGANIC SOIL, NON-GRANULAR SOIL AND DEBRIS.

COMPACTION OF EMBANKMENT AND BITUMINOUS MATERIAL SHALL BE BY THE METHOD OF "ORDINARY COMPACTION" EXCEPT AS NOTED IN THE SPECIAL PROVISIONS.

NO PENETRATION PRIME IS REQUIRED ON THIS PROJECT.

PROVIDE FOR A TACK COAT, SPEC. 2357.2A BETWEEN ALL BITUMINOUS COURSES.

SIDEWALK & PATH NOTES

CONSTRUCT DEPRESSED CURB SECTIONS AS PER CURB RAMP DETAIL ON PARKING AREA PLAN SHEETS AT ALL DESIGNATED LOCATIONS.

MEDIAN NOTES

ALL MEDIAN ISLANDS SHALL BE SURFACED WITH TOP SOIL AND SOD.

SEE TURF ESTABLISHMENT PLAN SHEET.

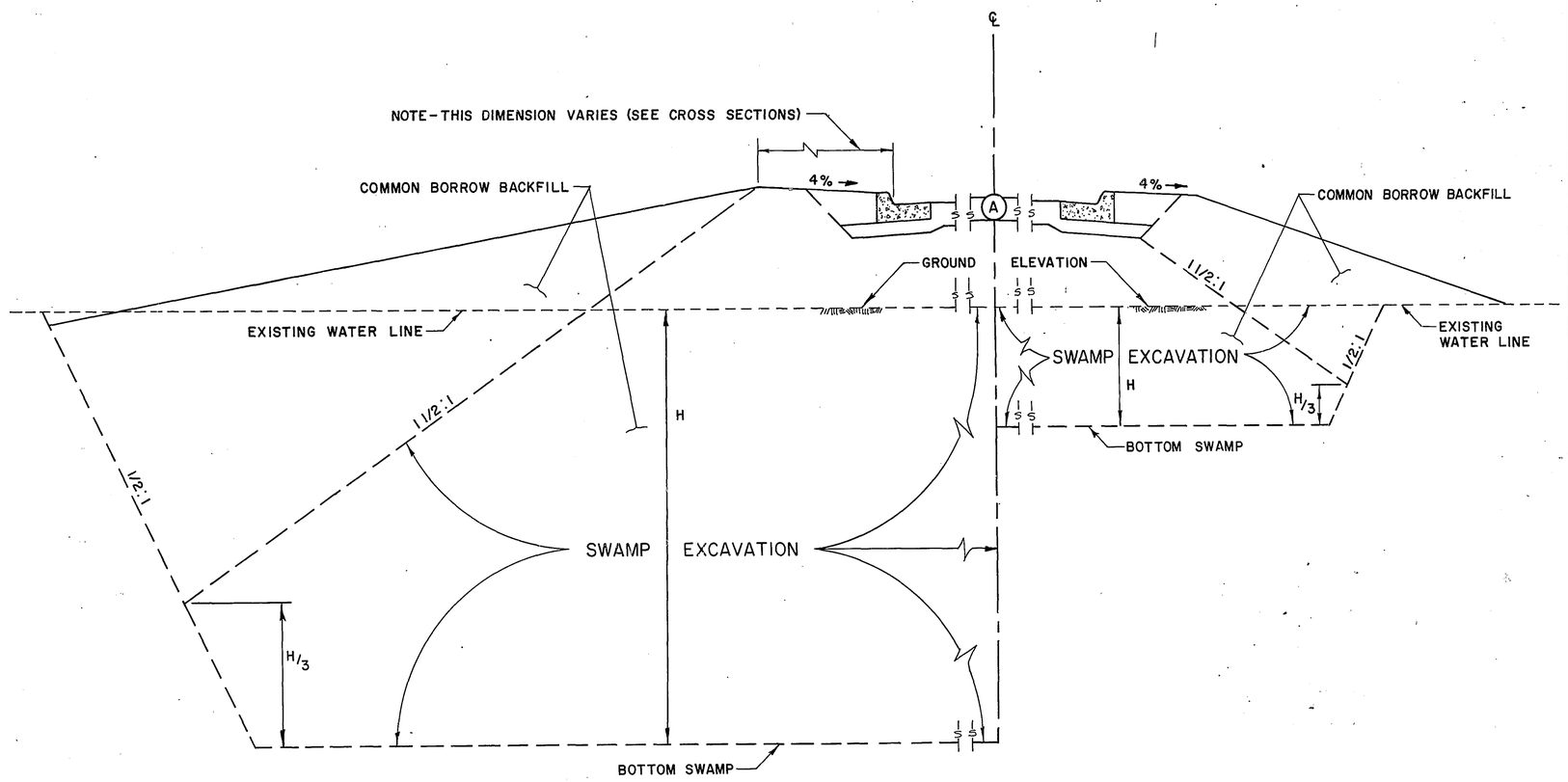
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ REG. NO. _____

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

Larry K. Feldhake

DATE 5-17-84 REG. NO. 13501



STA. 26+00 ± TO STA. 27+70 ±
MUCK EXCAVATION

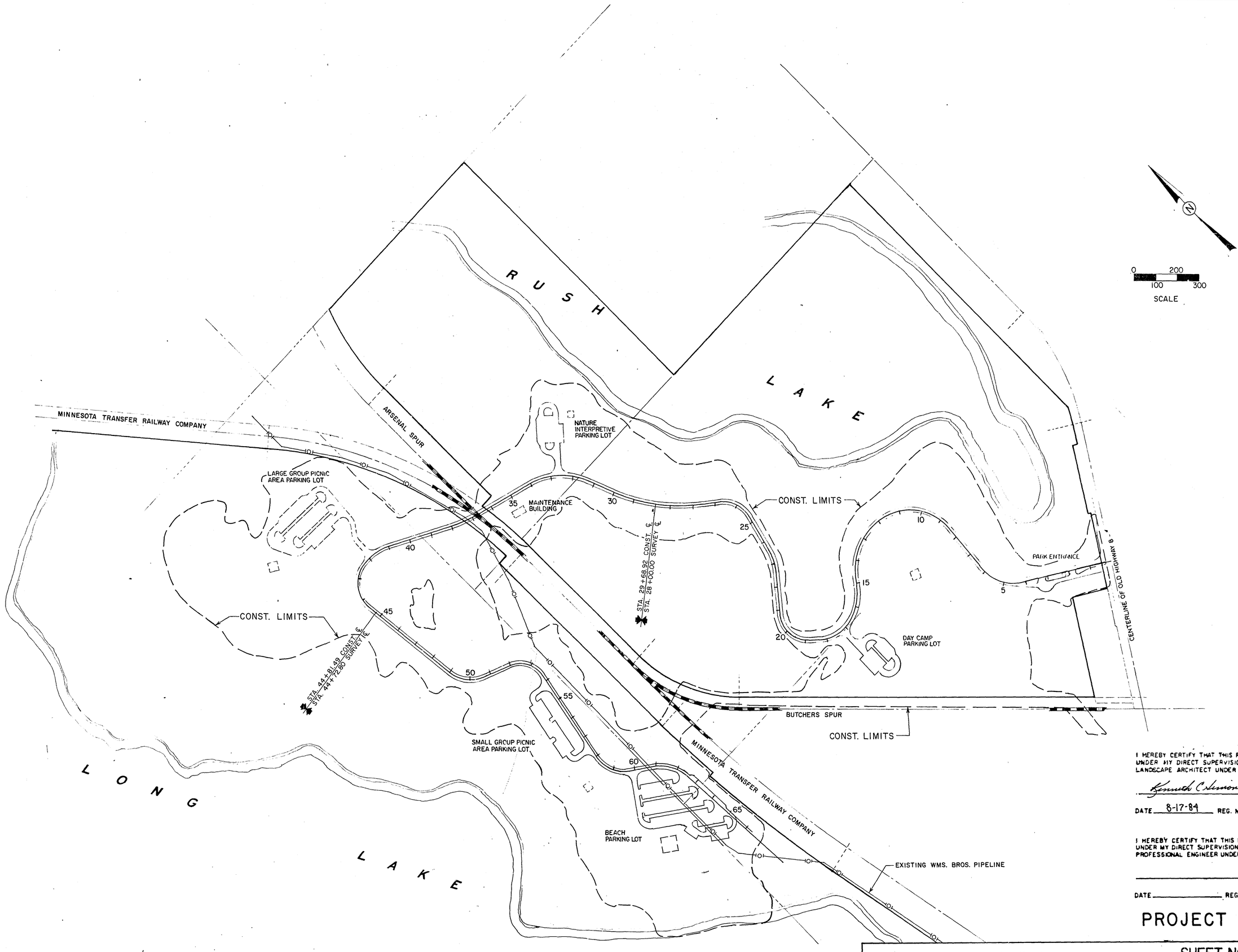
STA. 16+50 ± TO STA. 19+75 ±
MUCK EXCAVATION

TYPICAL SECTIONS

PROJECT NO. SG82115-1

SHEET NO. 3 OF 62 SHEETS

26-131



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Kenneth C Simons

DATE 8-17-89 REG. NO. 12262

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

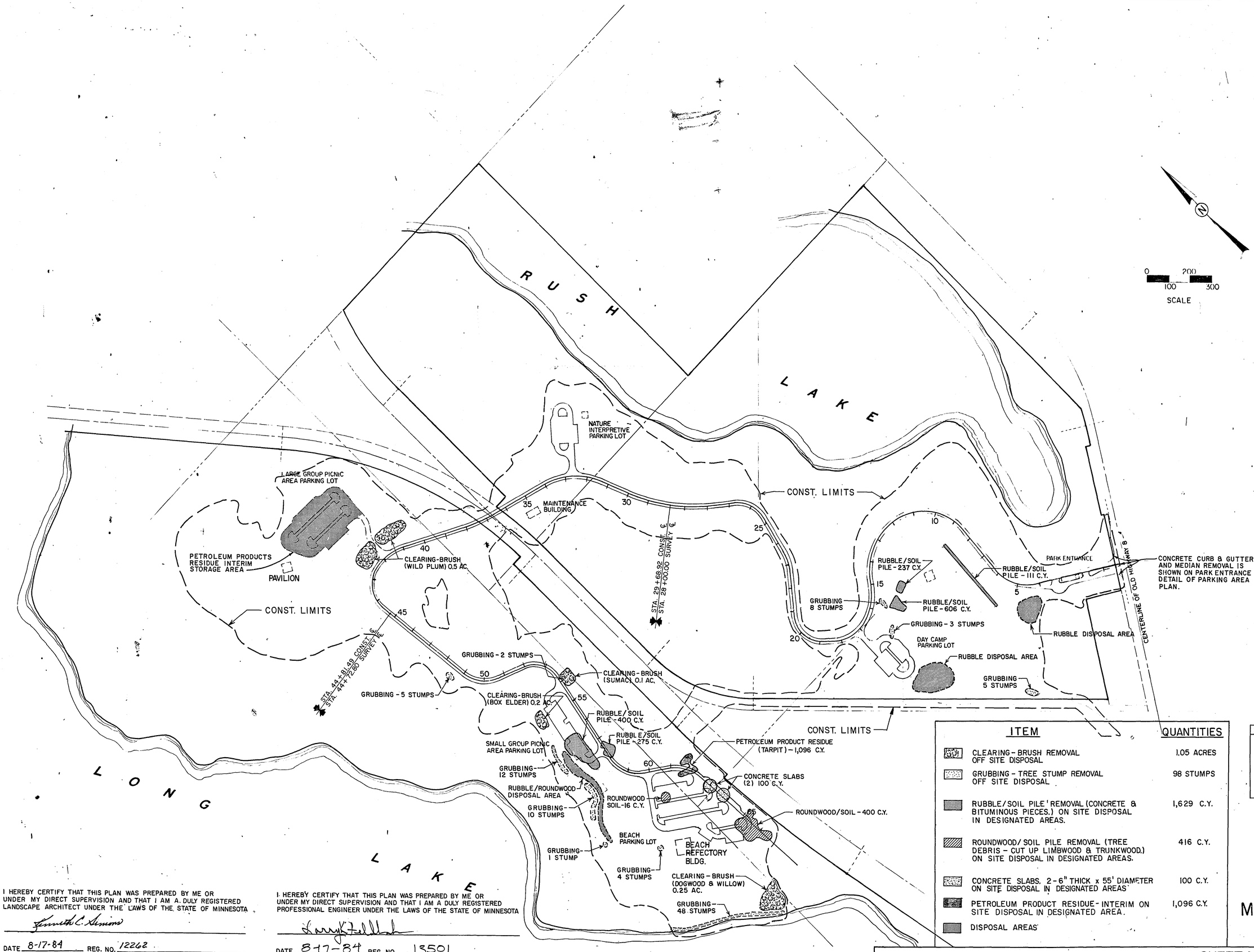
DATE _____ REG. NO. _____

PROJECT LAYOUT

PROJECT NO. SG82115-1

SHEET NO. 4 OF 62 SHEETS

26-131



ITEM	QUANTITIES
CLEARING - BRUSH REMOVAL OFF SITE DISPOSAL	1.05 ACRES
GRUBBING - TREE STUMP REMOVAL OFF SITE DISPOSAL	98 STUMPS
RUBBLE/SOIL PILE REMOVAL (CONCRETE & BITUMINOUS PIECES.) ON SITE DISPOSAL IN DESIGNATED AREAS.	1,629 C.Y.
ROUNDWOOD/SOIL PILE REMOVAL (TREE DEBRIS - CUT UP LIMBWOOD & TRUNKWOOD.) ON SITE DISPOSAL IN DESIGNATED AREAS.	416 C.Y.
CONCRETE SLABS, 2-6" THICK x 55' DIAMETER ON SITE DISPOSAL IN DESIGNATED AREAS	100 C.Y.
PETROLEUM PRODUCT RESIDUE - INTERIM ON SITE DISPOSAL IN DESIGNATED AREA.	1,096 C.Y.
DISPOSAL AREAS	

STUMP DIAMETER	QUANTITY
4"-10"	22
11"-15"	32
16"-20"	23
21"-30"	9
31"-58"	12
TOTAL	98

DIAMETER OF STUMP MEASURED 6" INCHES ABOVE GROUND LINE

MISCELLANEOUS REMOVALS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

Kenneth C. Simons

DATE 8-17-84 REG. NO. 12262

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

Larry Fellbaum

DATE 8-17-84 REG. NO. 13501

PROJECT NO. SG82115-1

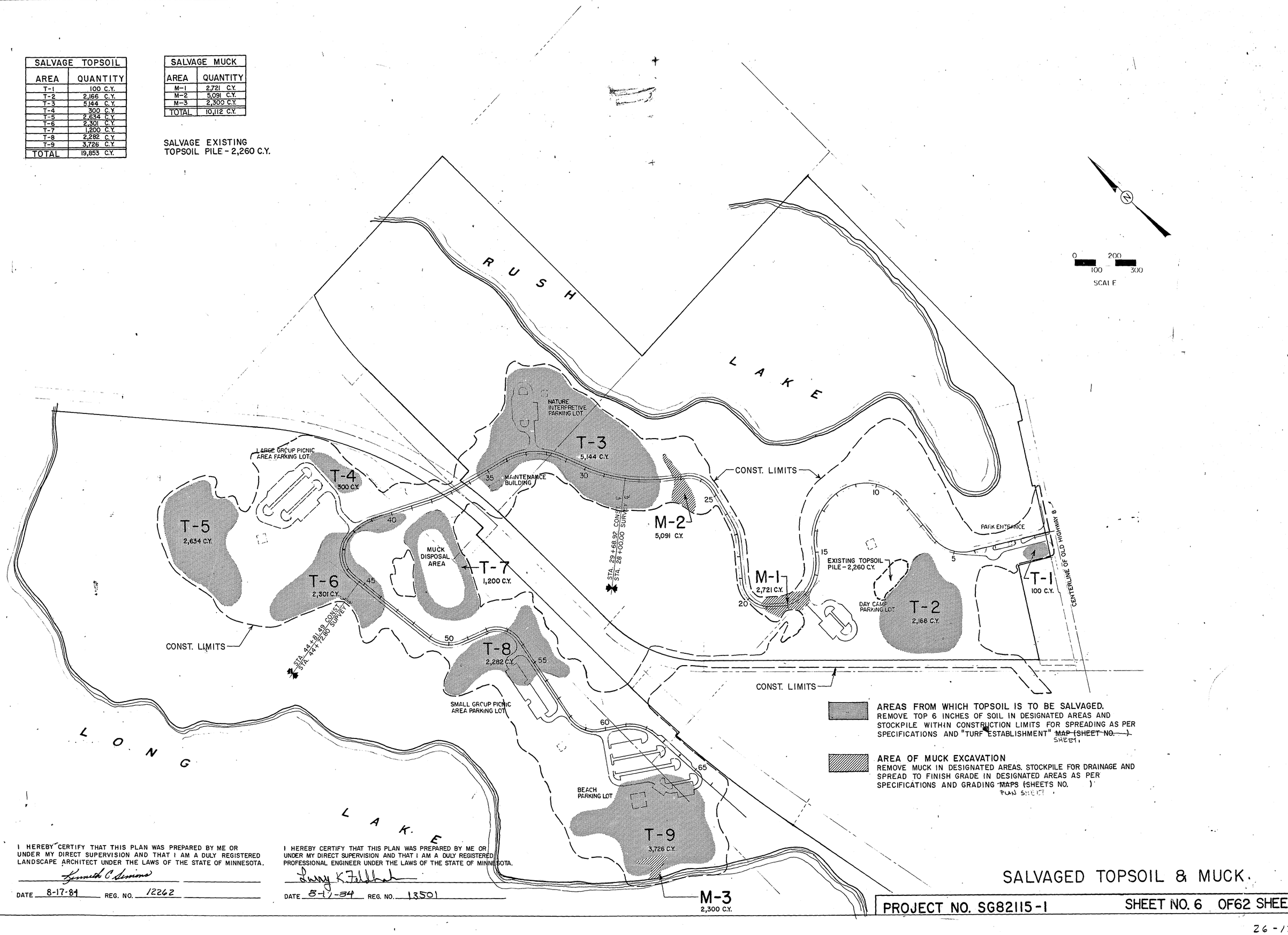
SHEET NO. 5 OF 62 SHEETS

26-131

SALVAGE TOPSOIL	
AREA	QUANTITY
T-1	100 C.Y.
T-2	2,166 C.Y.
T-3	5,144 C.Y.
T-4	300 C.Y.
T-5	2,634 C.Y.
T-6	2,301 C.Y.
T-7	1,200 C.Y.
T-8	2,282 C.Y.
T-9	3,726 C.Y.
TOTAL	19,853 C.Y.

SALVAGE MUCK	
AREA	QUANTITY
M-1	2,721 C.Y.
M-2	5,091 C.Y.
M-3	2,300 C.Y.
TOTAL	10,112 C.Y.

SALVAGE EXISTING TOPSOIL PILE - 2,260 C.Y.



AREAS FROM WHICH TOPSOIL IS TO BE SALVAGED.
REMOVE TOP 6 INCHES OF SOIL IN DESIGNATED AREAS AND STOCKPILE WITHIN CONSTRUCTION LIMITS FOR SPREADING AS PER SPECIFICATIONS AND "TURF ESTABLISHMENT" ~~MAP (SHEET NO.)~~ SHEET 1.

AREA OF MUCK EXCAVATION
REMOVE MUCK IN DESIGNATED AREAS. STOCKPILE FOR DRAINAGE AND SPREAD TO FINISH GRADE IN DESIGNATED AREAS AS PER SPECIFICATIONS AND GRADING ~~MAPS (SHEETS NO.)~~ PLAN SHEET 1.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kenneth C. Simons

DATE 8-17-84 REG. NO. 12262

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.

Larry K. Feldhaus

DATE 8-17-84 REG. NO. 13501

SALVAGED TOPSOIL & MUCK.

PROJECT NO. SG82115-1 SHEET NO. 6 OF 62 SHEETS

26-131

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

Kenneth C. Simons

DATE 8-17-84 REG. NO. 12262

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 _____ REG. NO. _____

PROTECT 24" OAK

REMOVE TOP 4" OF EXISTING SOIL WITHIN THE 906 CONTOUR. DEPOSIT IN DESIGNATED CONCRETE DISPOSAL AREA. REPLACE WITH SALVAGE TOPSOIL.

170 L.F. EROSION CONTROL SILT CURTAIN.

LEGEND

EXISTING CONTOUR

880 PROPOSED CONTOUR

PROTECT EXISTING EROSION CONTROL SILT FENCING

SCALE 0 10 20 30 40

PROTECT EXISTING MINN. POLLUTION CONTROL AGENCY UNDERGROUND POLLUTION MONITORING WELL PIPES.

MARSH

EDGE OF MARSH

PROPERTY LINE

PROPERTY LINE – RR R/W LINE

℄ OF TRACK (BUTCHER'S SPUR)

26-131

GRADING PLAN

PROJECT NO. SG82115-1

SHEET NO. 7 OF 62 SHEETS

RUSH LAKE

RUSH LAKE

EDGE OF MARSH

EDGE OF MARSH AREA

100 L.F. EROSION CONTROL SILT CURTAIN

240 L.F. EROSION CONTROL SILT CURTAIN.

EDGE OF MARSH

PROPERTY LINE

R.R. R/W LINE

EQUATION

25+68.82 = 28+00

LEGEND

EXISTING CONTOUR

880 PROPOSED CONTOUR

N

0 20 40

10 30 50

SCALE

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Kenneth C. Hamm

DATE 8-17-84 REG. NO. 12262

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DATE REG. NO.

GRADING PLAN

26-131

PROJECT NO. SG82115-1

SHEET NO. 8 OF 62 SHEETS

LEGEND

EXISTING CONTOUR

880 PROPOSED CONTOUR

0 20 40
10 30 50
SCALE

PETROLEUM PRODUCTS RESIDUE STORAGE AREA
-CONSTRUCT INTERIM STORAGE BASIN FOR PETROLEUM PRODUCTS RESIDUE. AREA: 38' WIDE, 150' LONG, 6' DEEP.
-FURNISH AND INSTALL IMPERM. LINER OVER THE SOIL SURFACE OF THIS AREA. MINIMUM DIMENSIONS: 60' WIDE AND 200' LONG.
-PETROLEUM PRODUCTS RESIDUE TO BE PLACED IN THIS BASIN.
-SEE SPECIAL PROVISIONS.

150 L.F. EROSION CONTROL SILT CURTAIN.

MARSH

PROPERTY LINE - RR R/W LINE

EXCAVATE (TOPSOIL SALVAGE & COMMON EXCAVATION) TO A BASIN ELEVATION OF 871.0. STOCKPILE MUCK FOR DEWATERING. SPREAD DEWATERED MUCK TO A SURFACE ELEVATION OF 873.0.

EQUATION 14+18.45 = 14+72.30

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA,

Kenneth C. Simons

DATE 8-17-84 REG. NO. 12262

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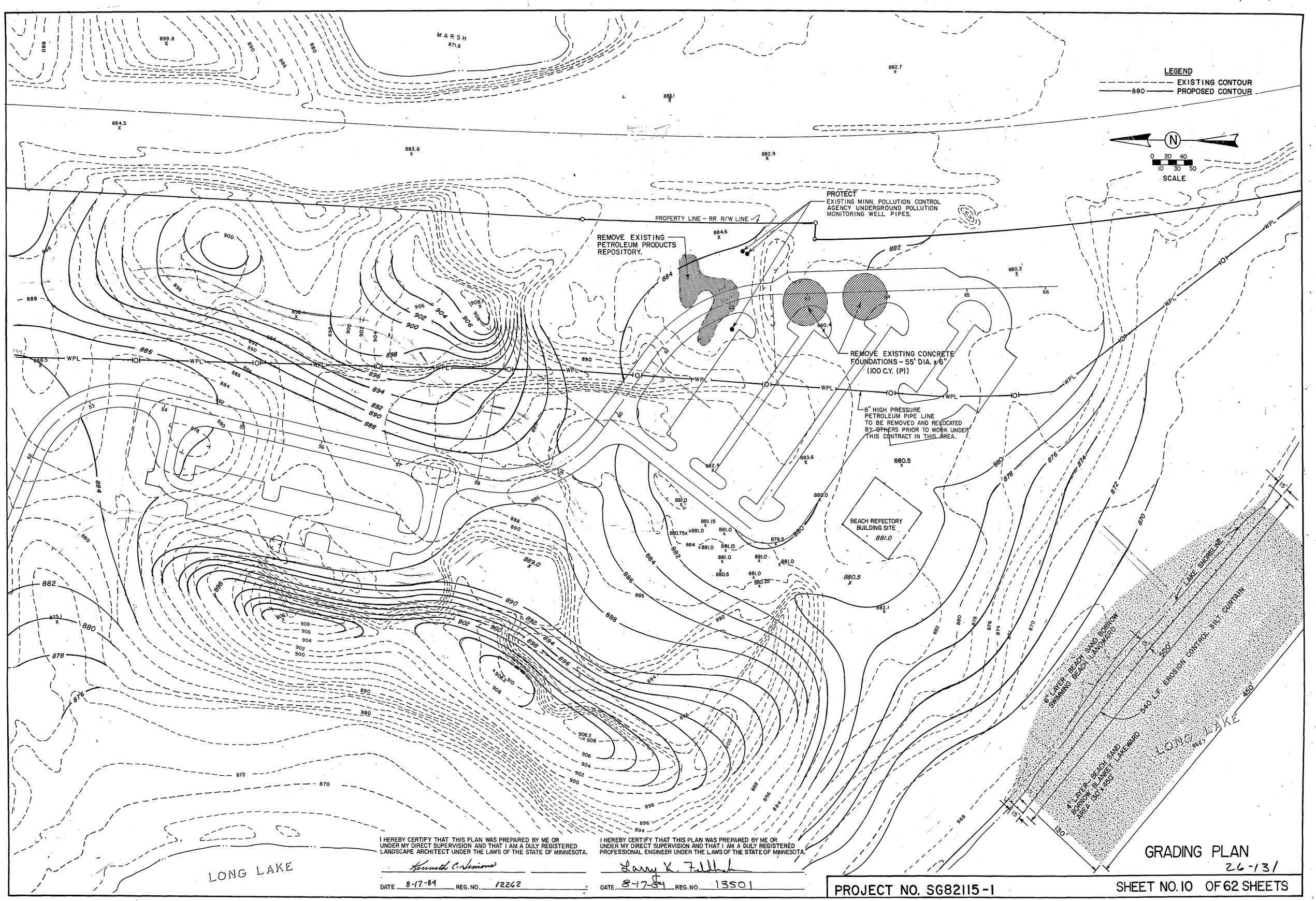
DATE _____ REG. NO. _____

GRADING PLAN

26-131

PROJECT NO. SG82115-1

SHEET NO. 9 OF 62 SHEETS



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Kenneth C. Simmons

DATE 8-17-84 REG. NO. 12262

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Larry K. Feldhaus

DATE 8-17-84 REG. NO. 13501

GRADING PLAN

26-131

PROJECT NO. SG82115-1

SHEET NO. 10 OF 62 SHEETS

SHEET NO. DAY CAMP AREA

CUT BY AREA (COMMON EXC.)			FILL BY AREA (X 1.3)		
C-1	37,202	C.Y.	F-1	4452	C.Y. (INCLUDES M-1 BACKFILL)
			F-2	16,021	C.Y.
			F-3	9164	C.Y.
			F-4	751	C.Y.
SHEET TOTAL	37,202	C.Y.	SHEET TOTAL	30,388	C.Y.

(DOES NOT INCLUDE ACTUAL EXCAVATION FOR ROADWAY & PARKING LOTS)

SHEET EXCESS 6,814 C.Y.

(DOES NOT INCLUDE TOP SOIL TO BE PLACED IN DESIGNATED TURF ESTABLISHMENT AREAS.)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

Kenneth C. Lemmon

DATE 8-17-84 REG. NO. 12262

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DATE _____ REG. NO. _____

PROTECT 24" OAK

REMOVE TOP 4" OF EXISTING SOIL WITHIN THE 906 CONTOUR. DEPOSIT IN DESIGNATED CONCRETE DISPOSAL AREA. REPLACE WITH SALVAGE TOPSOIL - SEE TURF ESTABLISHMENT PLAN

F-1

F-2

F-3

F-4

C-1

C-2

CONCRETE DISPOSAL AREA

EXISTING SALVAGE TOPSOIL PILE

170 L.F. EROSION CONTROL SILT FENCING (FABRIC WITH WOOD STAKES ATTACHED)

MARSH

MARSH

EDGE OF MARSH

PROPERTY LINE

PROPERTY LINE RR R/W LINE

℄ OF TRACK (BUTCHER'S SPUR)

SCALE 10 30 50 / 0 20 40

CUTS & FILLS BY AREA

PROJECT NO. SG82115-1

SHEET NO. 11 OF 62 SHEETS

SHEET NO. NATURE INTERPRETIVE AREA

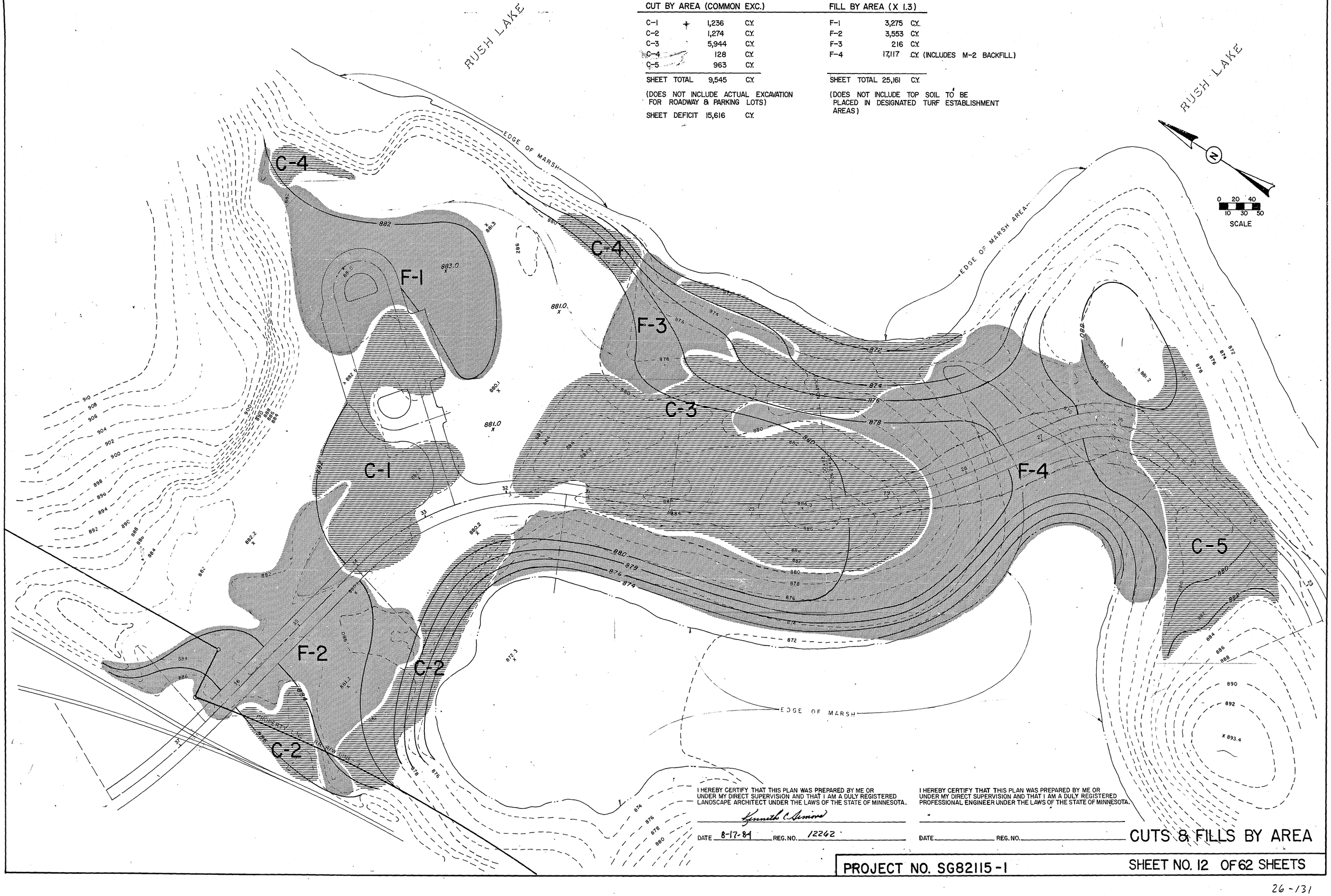
CUT BY AREA (COMMON EXC.)		
C-1	1,236	C.Y.
C-2	1,274	C.Y.
C-3	5,944	C.Y.
C-4	128	C.Y.
C-5	963	C.Y.
SHEET TOTAL	9,545	C.Y.

(DOES NOT INCLUDE ACTUAL EXCAVATION FOR ROADWAY & PARKING LOTS)

SHEET DEFICIT 15,616 C.Y.

FILL BY AREA (X 1.3)		
F-1	3,275	C.Y.
F-2	3,553	C.Y.
F-3	216	C.Y.
F-4	17,117	C.Y. (INCLUDES M-2 BACKFILL)
SHEET TOTAL	25,161	C.Y.

(DOES NOT INCLUDE TOP SOIL TO BE PLACED IN DESIGNATED TURF ESTABLISHMENT AREAS)



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Kenneth C. Simons

DATE 8-17-81 REG. NO. 12262

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 REG. NO.

CUTS & FILLS BY AREA

PROJECT NO. SG82115-1

SHEET NO. 12 OF 62 SHEETS

SHEET NO. LARGE GROUP PICNIC AREA

CUT BY AREA (COMMON EXC.)			FILL BY AREA (X 1.3)		
C-1	811	C.Y.	F-1	12,424	C.Y.
C-2	36,648	C.Y.	F-2	710	C.Y.
C-3	6,200	C.Y.	F-3	4,818	C.Y.
			F-4	16,332	C.Y.
			F-5	330	C.Y.
			F-6	2,568	C.Y.

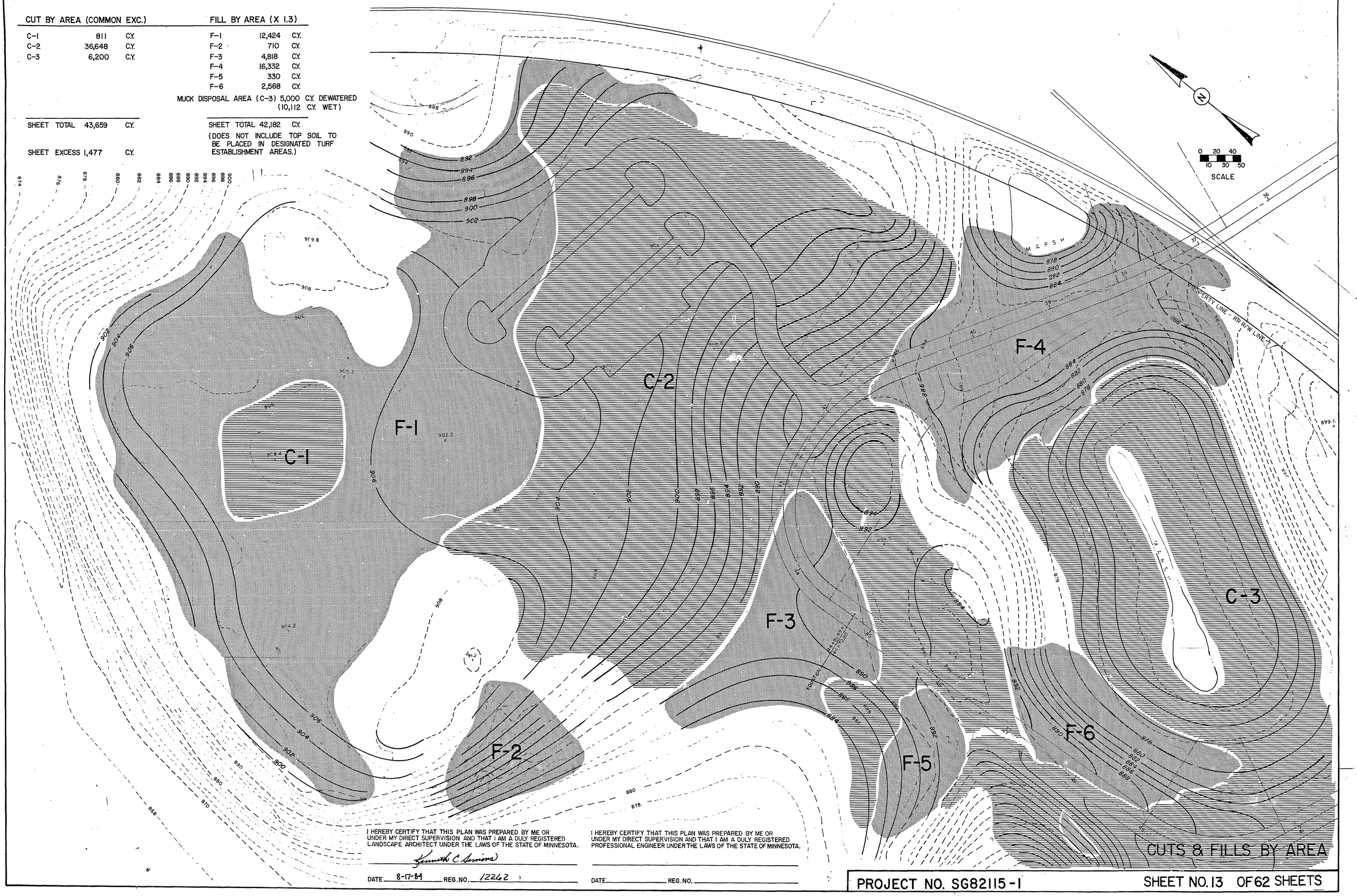
MUCK DISPOSAL AREA (C-3) 5,000 C.Y. DEWATERED (10,112 C.Y. WET)

SHEET TOTAL 43,659 C.Y.

SHEET TOTAL 42,182 C.Y.

(DOES NOT INCLUDE TOP SOIL TO BE PLACED IN DESIGNATED TURF ESTABLISHMENT AREAS.)

SHEET EXCESS 1,477 C.Y.



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Kenneth C. Simmons

DATE 8-17-84 REG.NO. 12262

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DATE REG.NO.

CUTS & FILLS BY AREA

PROJECT NO. SG82115-1

SHEET NO. 13 OF 62 SHEETS

26-131

SHEET NO. SWIMMING BEACH—SMALL GROUP PICNIC AREA

CUT BY AREA (COMMON EXC.)			FILL BY AREA (X 1.3)		
C-1	2,278	C.Y.	F-1	26,417	C.Y.
C-2	667	C.Y.	F-2	906	C.Y.
C-3	4,959	C.Y.	F-3	1,045	C.Y.
C-4	26,050	C.Y.	F-4	1,924	C.Y.
C-5	975	C.Y.	F-5	6,336	C.Y. (INCLUDES M-3 BACKFILL)
			PETROL. PROD. REPOSITORY (C-4)	1,425	C.Y.
SHEET TOTAL	34,929	C.Y.	SHEET TOTAL	38,053	C.Y.

(DOES NOT INCLUDE ACTUAL EXCAVATION FOR ROADWAY & PARKING LOT.)
SHEET DEFICIT 3,124 C.Y.

(DOES NOT INCLUDE TOP SOIL TO BE PLACED IN DESIGNATED TURF ESTABLISHMENT AREAS. DOES NOT INCLUDE BEACH SAND.)

0 20 40
10 30 50
SCALE

N

MARSH 871.6

PROPERTY LINE – RR R/W LINE

PETROLEUM PRODUCTS REPOSITORY

BEACH REFECTORY BUILDING SILL 881.0

C-1 C-2 C-3 C-4 F-1 F-2 F-3 F-4 F-5

LONG LAKE 866.7

SUMMARY: COMMON EXC.—SITE WORK

SHEET NO.	TOTAL CUT		TOTAL FILL (EMBANKMENT)	
1.	37,202	C.Y.	30,388	C.Y.
2.	9,545	C.Y.	25,161	C.Y.
3.	43,658	C.Y.	42,182	C.Y.
4.	34,929	C.Y.	38,053	C.Y.
	125,334	C.Y.	135,784	C.Y.

SUMMARY: EXCAVATION / EMBANKMENT BALANCE

– 135,784 C.Y.	EMBANKMENT	
+ 125,334 C.Y.	EXCAVATION	
– 10,450 C.Y.		
+ 10,122 C.Y.	*	
328 C.Y.	DEFICIT	(TO BALANCE EXCAVATION & EMBANKMENT DEFICIT MATERIAL WILL NOT BE PLACED IN AREA F-1 SHEET NO.)

* EXCESS MATERIAL FROM OTHER OPERATIONS.

ROADWAY & PARKING LOT EXCAVATION EXCESS.	+ 5,196	C.Y.
UNCOMMITTED SALVAGE TOPSOIL EXCESS.	+ 4,926	C.Y.
	= + 10,122	C.Y.

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Kenneth C. Simons

DATE 8-17-84 REG. NO. 12262

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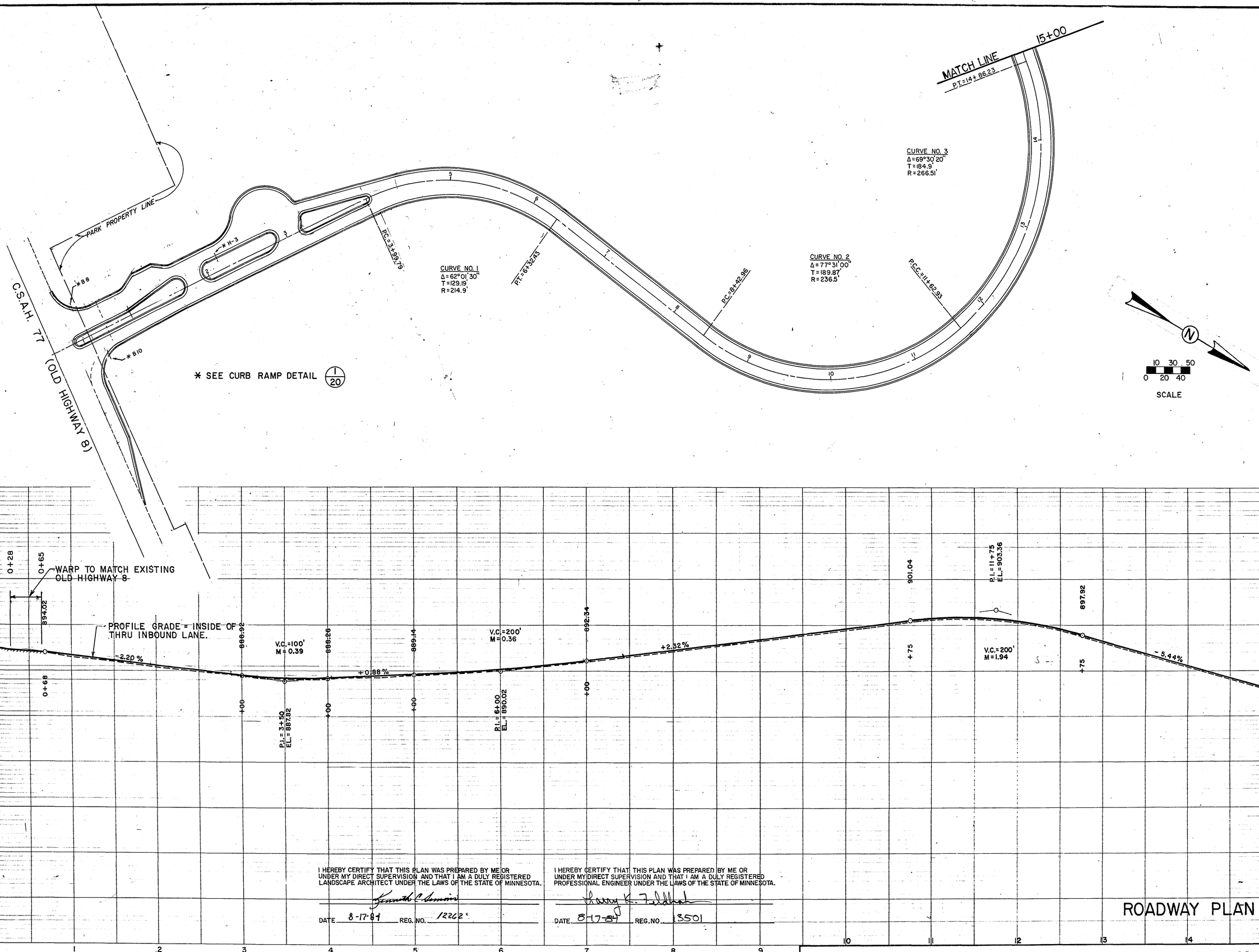
DATE REG. NO.

CUTS & FILLS BY AREA

PROJECT NO. SG82115-1

SHEET NO. 14 OF 62 SHEETS

26-131



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Kenneth C. Simmins

DATE 8-17-84 REG. NO. 12262

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Thomas K. Tebbe

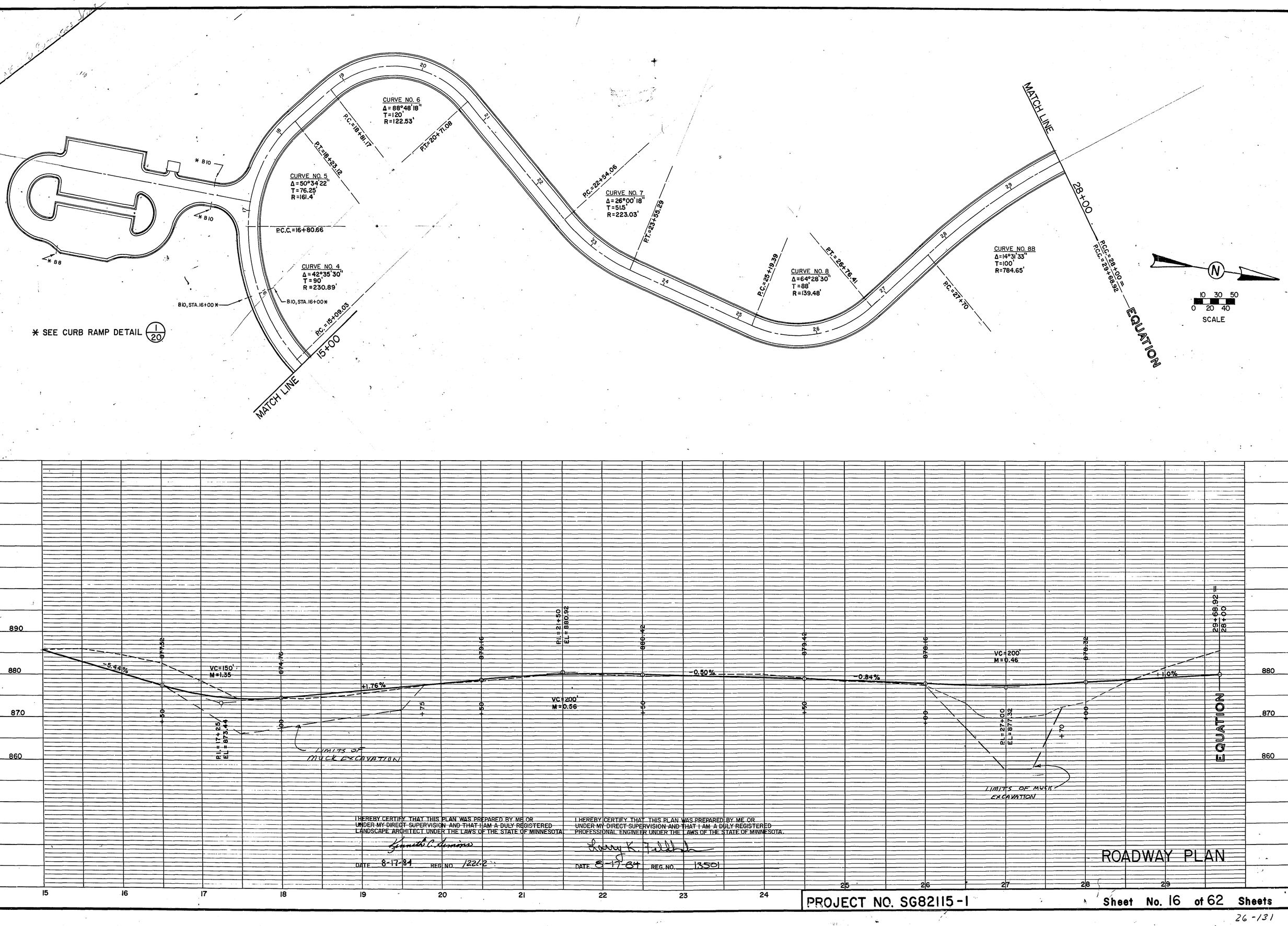
DATE 8-17-84 REG. NO. 13501

ROADWAY PLAN

PROJECT NO. SG82115-1

Sheet No. 15 of 62 Sheets

26-131



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Kenneth C. Simmons

DATE 8-17-84 REG. NO. 1221-2

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.

Harry K. Tibbetts

DATE 8-17-84 REG. NO. 13501

ROADWAY PLAN

PROJECT NO. SG82115-1

Sheet No. 16 of 62 Sheets

26-131

EQUATION 29+68.92 = 28+00 = R.C.

MATCH LINE 28+00

CURVE NO. 9
Δ = 15°30'
T = 100'
R = 734.79'

P.T. = 29+98.78

P.C. = 31+24.99

CURVE NO. 10
Δ = 52°
T = 150'
R = 307.55'

P.T. = 34+04.11

*B10, STA. 31+92

*B10, STA. 31+92

P.C. = 36+61.15

CURVE NO. 11B
Δ = 11°59'02"
T = 75'
R = 714.54'

P.T. = 38+10.60

MATCH LINE
R.C. = 40+97.44

41+00

NOTE: MAINTAIN 8' CLEARANCE CURB TO RAIL. WARP ROADWAY GRADE TO MATCH RAILS.

N

0 10 20 30 40 50
SCALE

* SEE CURB RAMP DETAIL. (1/21)

*H-3
*H-3
*H-3
*H-3
*H-3
*H-3
*H-3

EQUATION 29+68.92 = 28+00

+1.0%
-1.29%
+.929%
+3.40%
-3.20%
+1.12%

VC=150' M=0.43
VC=200' M=0.55'
VC=100' M=0.31
VC=100' M=0.82
VC=200' M=1.08

P.I. = 30+25 EL. = 882.26
P.I. = 32+00 EL. = 880.0
P.I. = 35+50 EL. = 883.25
P.I. = 37+00 EL. = 888.33
P.I. = 38+50 EL. = 883.55

881.61 881.29 880.93 882.79 884.05 886.55 886.73 884.67

890 880 870

28 29 30 31 32 33 34 35 36 37 38 39 40 41

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Kenneth C. Simmins

DATE 8-17-84 REG. NO. 12262

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Harry K. Tuttle

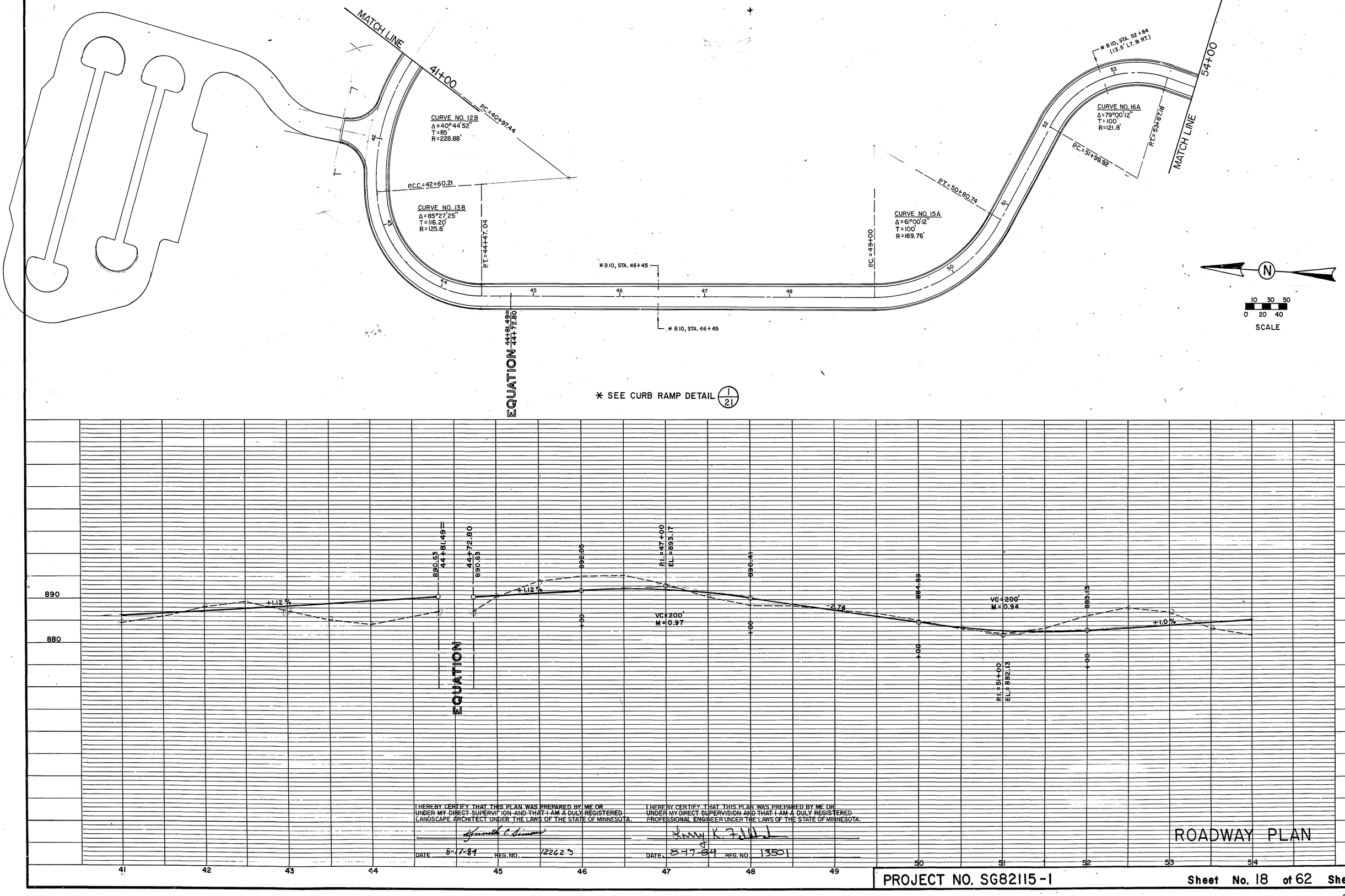
DATE 8-17-84 REG. NO. 13501

ROADWAY PLAN

PROJECT NO. SG82115-1

Sheet No. 17 of 62 Sheets

26-131



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Kenneth C. Simons

DATE 5-17-84 REG. NO. 12262

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.

Jerry K. Fuller

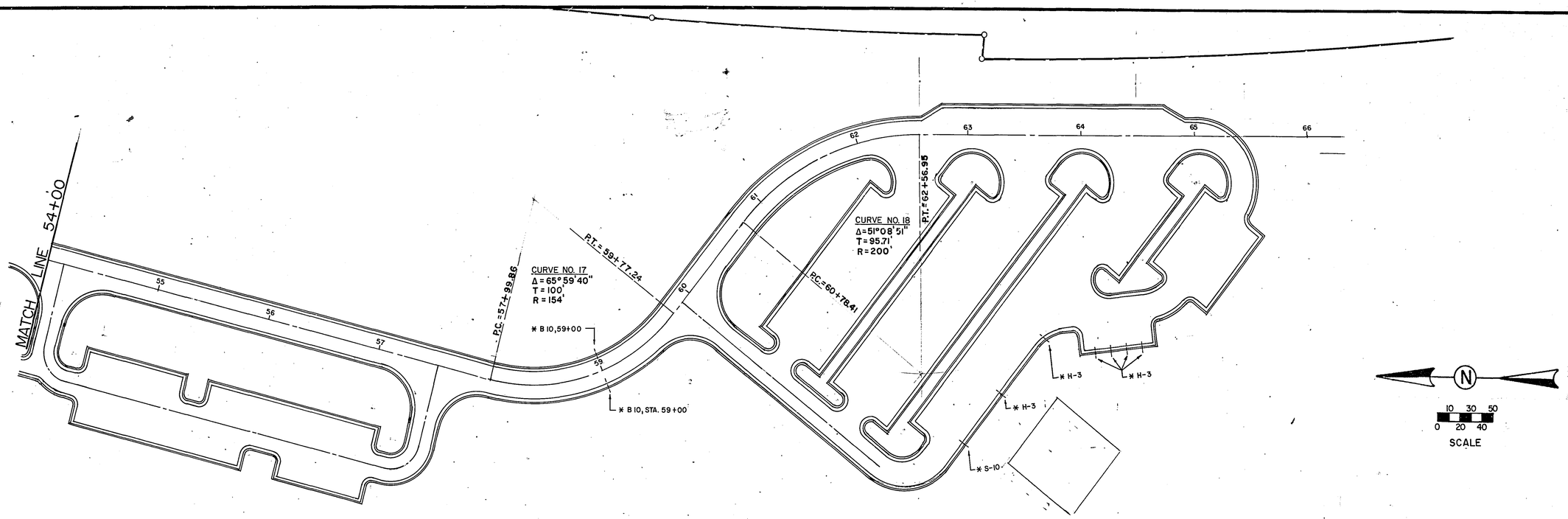
DATE 5-17-84 REG. NO. 13501

ROADWAY PLAN

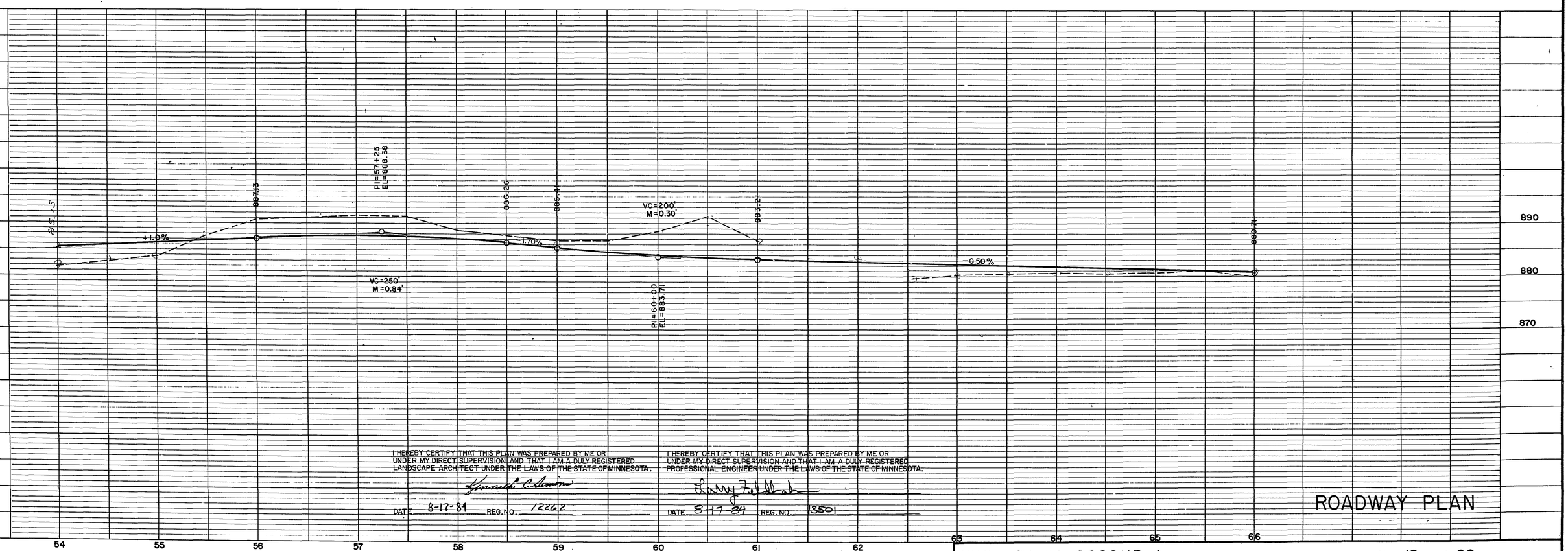
PROJECT NO. SG82115-1

Sheet No. 18 of 62 Sheets

26-131



* SEE CURB RAMP DETAIL (1/22)



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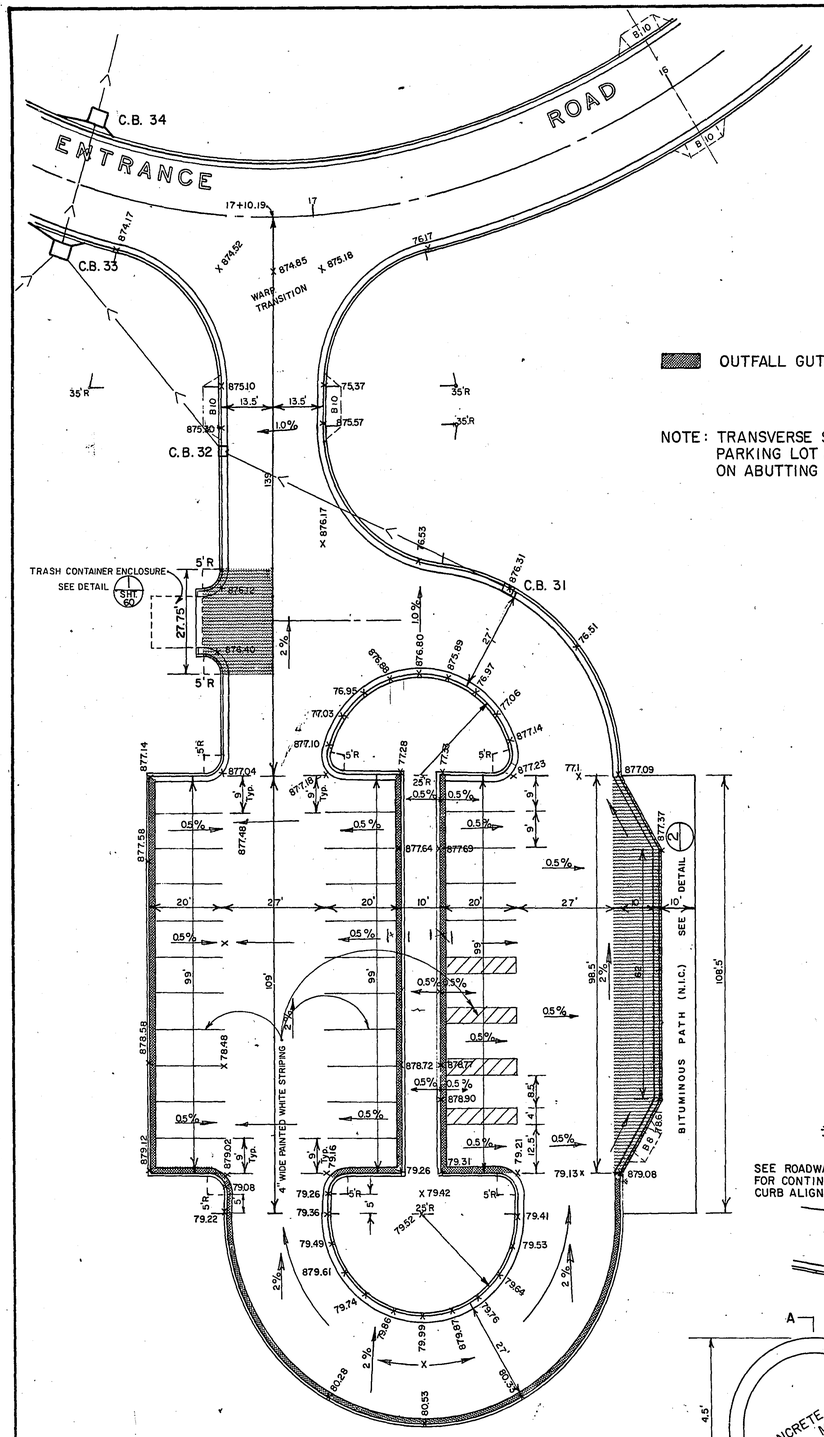
DATE 8-17-84 REG. NO. 13501

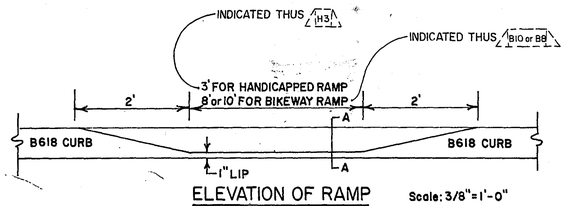
ROADWAY PLAN

PROJECT NO. SG82115-1

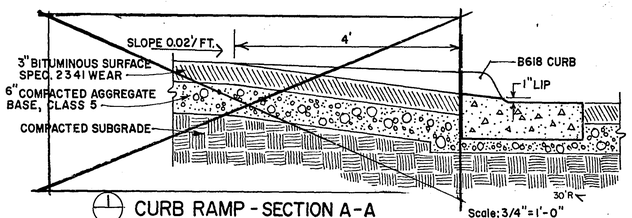
Sheet No. 19 of 62 Sheets

26-131





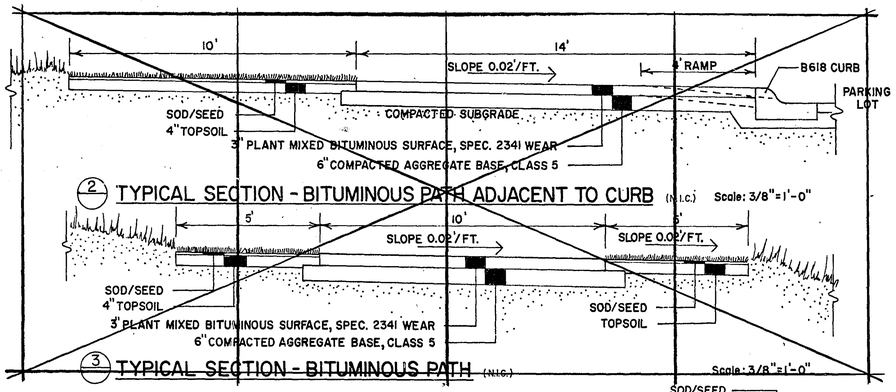
ELEVATION OF RAMP Scale: 3/8"=1'-0"



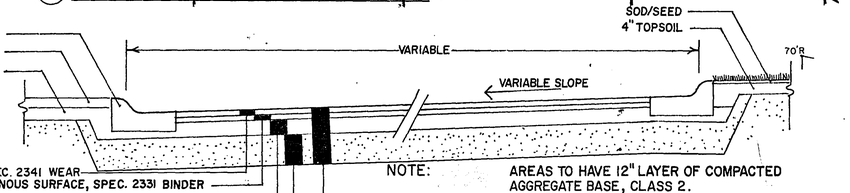
1 CURB RAMP - SECTION A-A (FOR HANDICAPPED & BIKEWAYS) Scale: 3/4"=1'-0"

OUTFALL GUTTER

NOTE: TRANSVERSE SLOPE ON GUTTERS IN PARKING LOT AREAS TO MATCH GRADE ON ABUTTING BITUMINOUS SURFACES.

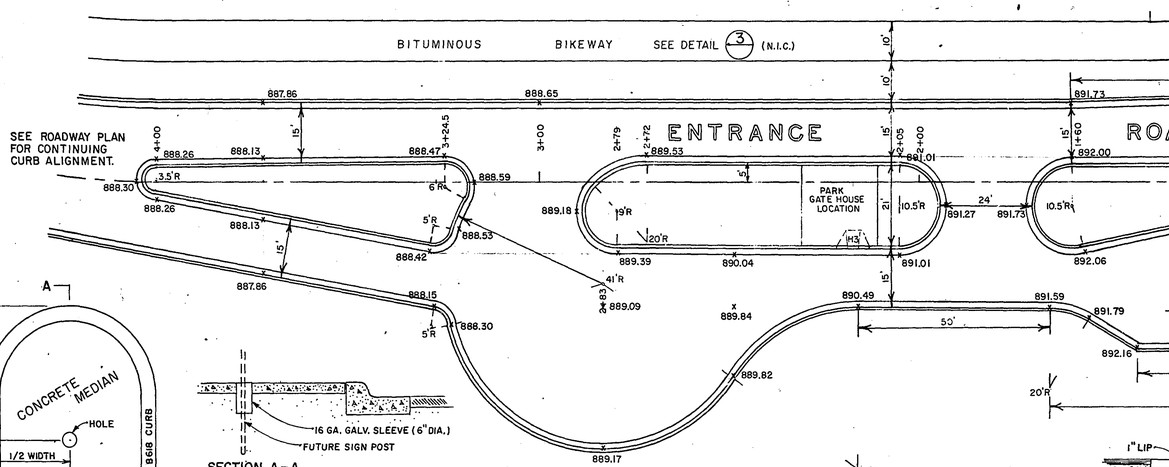


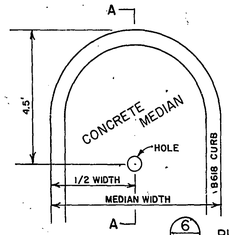
2 TYPICAL SECTION - BITUMINOUS PATH ADJACENT TO CURB (N.I.C.) Scale: 3/8"=1'-0"



3 TYPICAL SECTION - BITUMINOUS PATH (N.I.C.) Scale: 3/8"=1'-0"

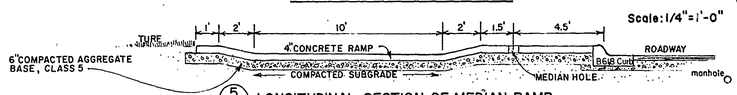
4 TYPICAL SECTION - PARKING LOT Scale: 3/8"=1'-0"



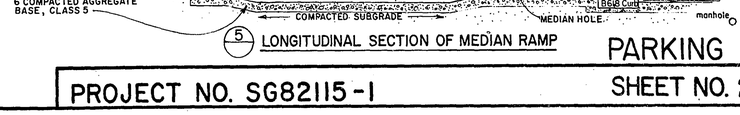


SECTION A-A

6 PLACEMENT OF MEDIAN HOLES



CROSS-SECTION OF MEDIAN RAMP Scale: 1/4"=1'-0"



5 LONGITUDINAL SECTION OF MEDIAN RAMP

PARK ENTRANCE Scale: 1"=20'-0"

DAY CAMP PARKING LOT

10 30
0 20
SCALE

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kenneth C. Simmons

DATE 8-17-84 REG. NO. 12262

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.

Janice E. Polaar

DATE 8/17/84 REG. NO. 16159

PARKING AREA PLAN

PROJECT NO. SG82115-1

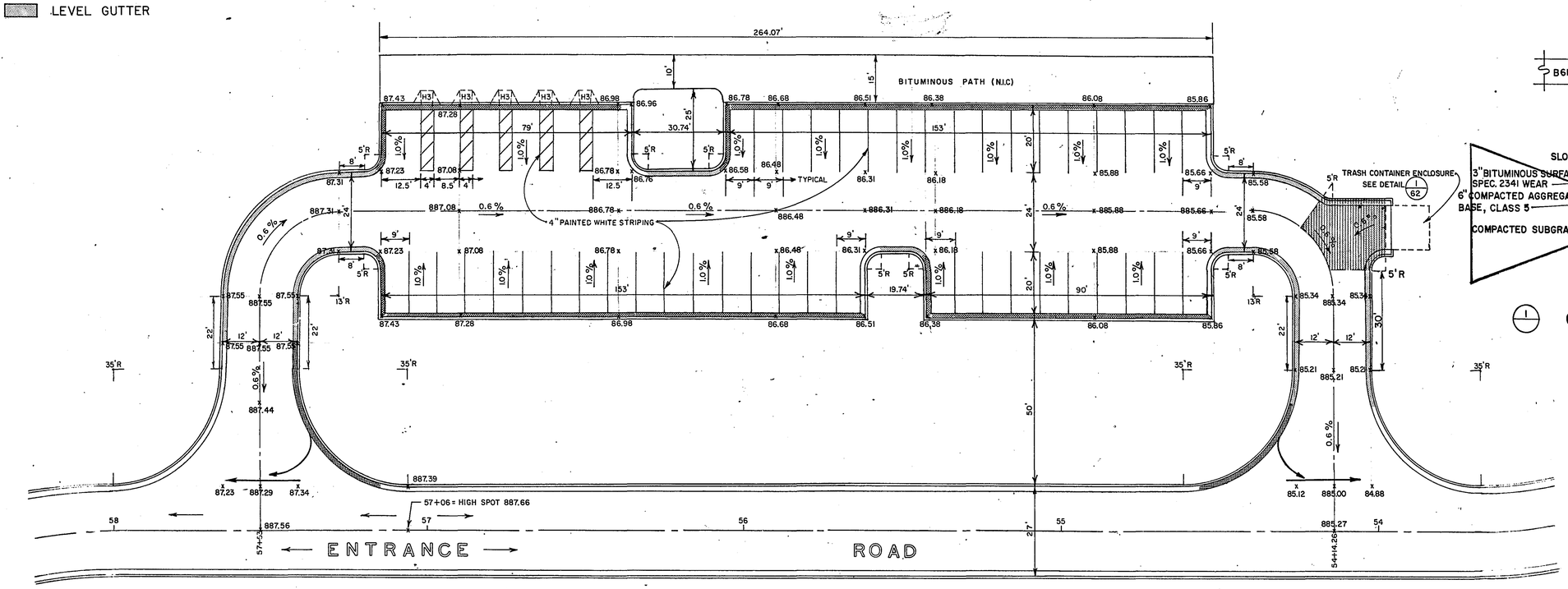
SHEET NO. 20 OF 62 SHEETS

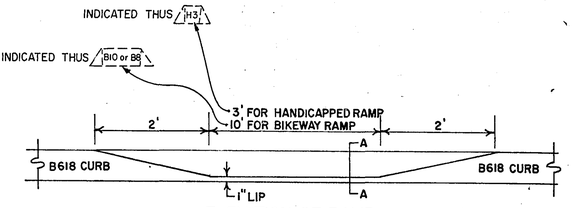
26-131

OUTFALL GUTTER

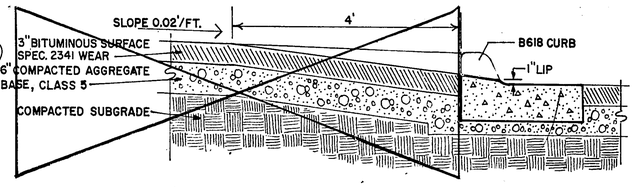
LEVEL GUTTER

NOTE: TRANVERSE SLOPE ON GUTTERS IN PARKING LOT AREAS TO MATCH GRADE ON ABUTTING BITUMINOUS SURFACES.





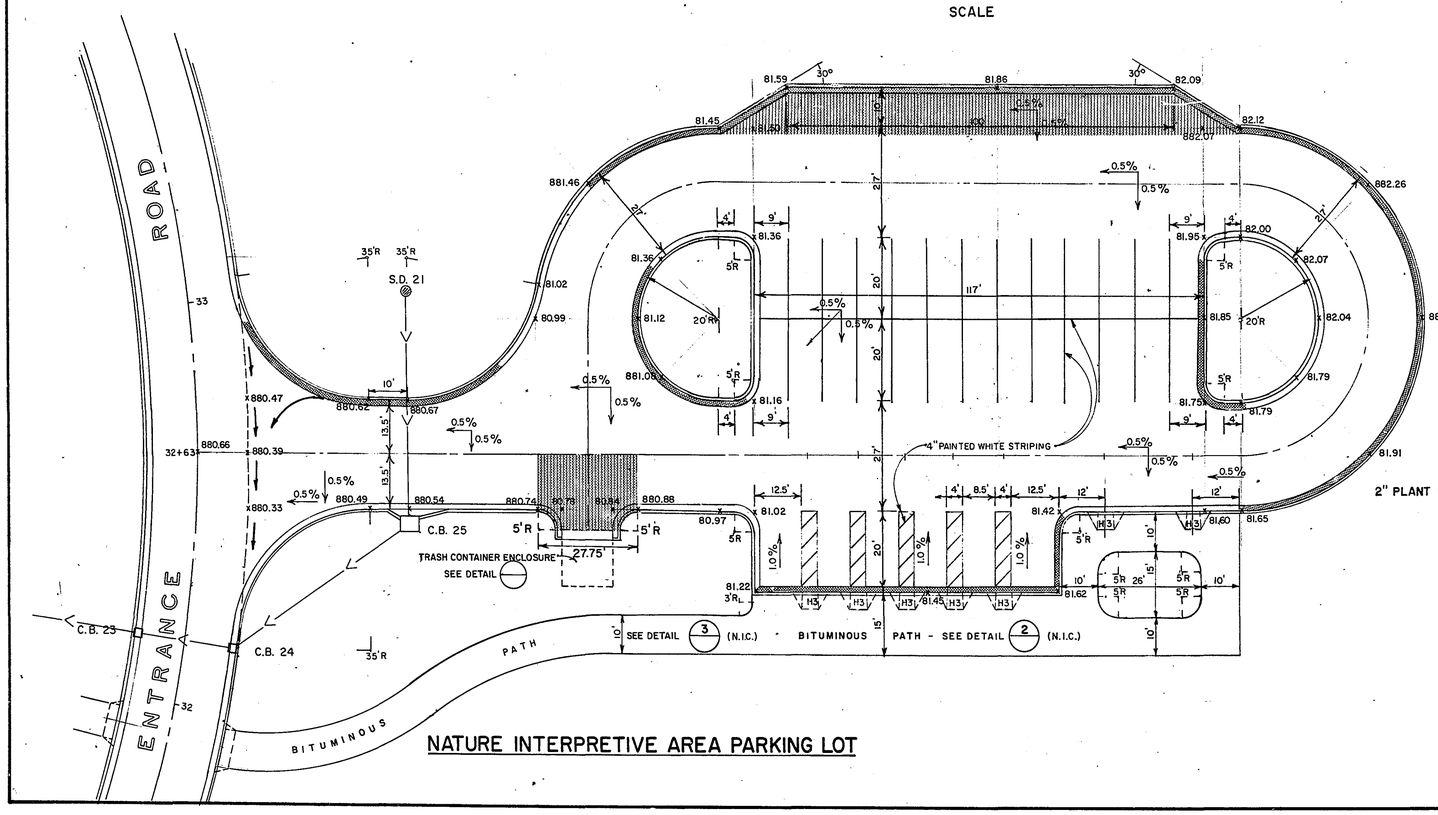
ELEVATION OF RAMP Scale: 3/8"=1'-0"



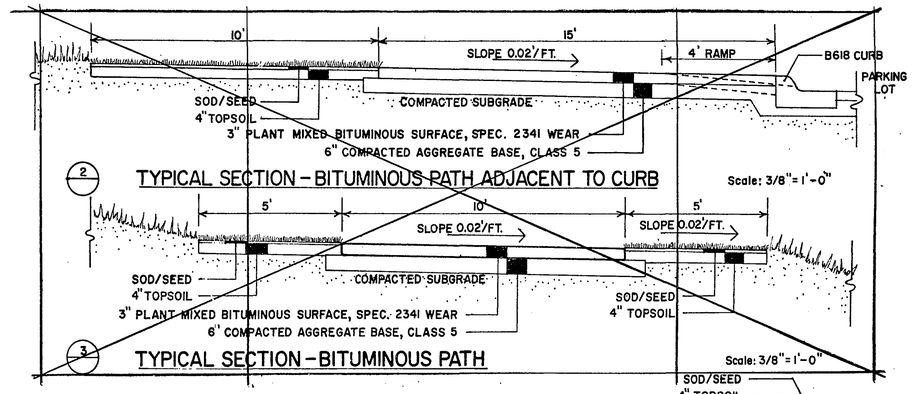
1 CURB RAMP - SECTION A-A (FOR HANDICAPPED & BIKEWAYS) Scale: 3/4"=1'-0"

SMALL GROUP PICNIC AREA PARKING LOT

SCALE 0 10 20 30

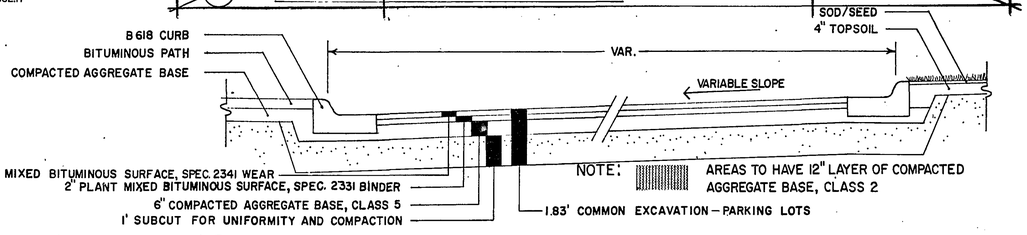


NATURE INTERPRETIVE AREA PARKING LOT



2 TYPICAL SECTION - BITUMINOUS PATH ADJACENT TO CURB Scale: 3/8"=1'-0"

3 TYPICAL SECTION - BITUMINOUS PATH Scale: 3/8"=1'-0"



NOTE: AREAS TO HAVE 12" LAYER OF COMPACTED AGGREGATE BASE, CLASS 2

4 TYPICAL SECTION - PARKING LOT Scale: 3/8"=1'-0"

PARKING AREA PLAN

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Kenneth C. Simmons

DATE 8-17-84 REG. NO. 12262

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.

James E. Tolaas

DATE 8/17/84 REG. NO. 16159

PROJECT NO. SG82115-1

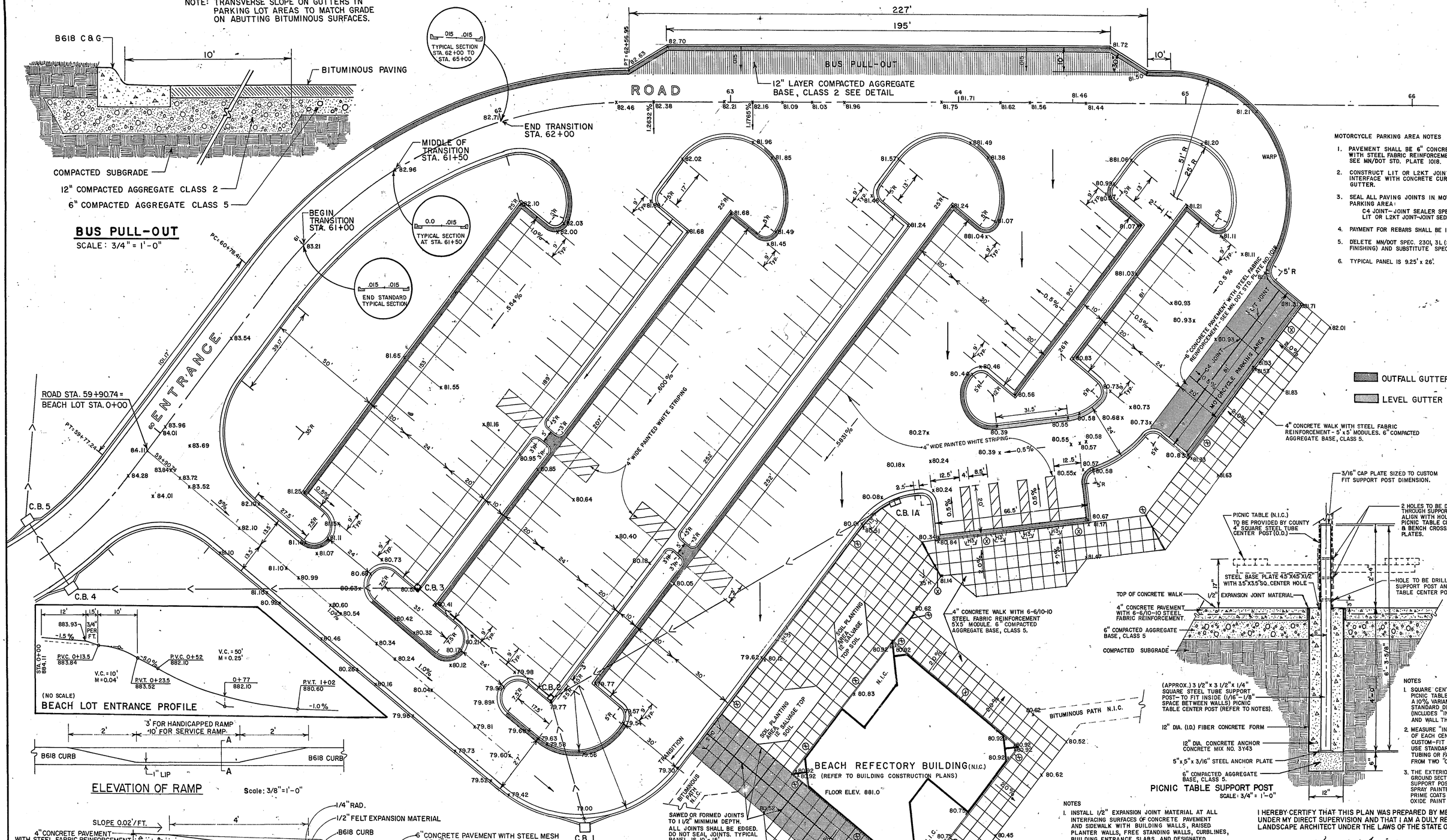
SHEET NO. 21 OF 62 SHEETS

26-131

NOTE: TRANSVERSE SLOPE ON GUTTERS IN PARKING LOT AREAS TO MATCH GRADE ON ABUTTING BITUMINOUS SURFACES.

BUS PULL-OUT

SCALE: 3/4" = 1'-0"



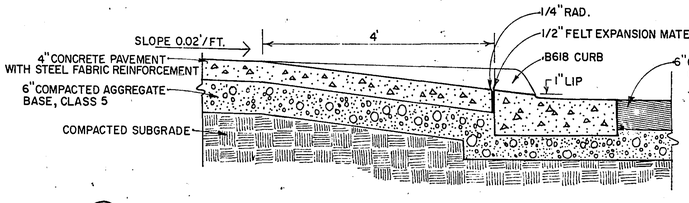
MOTORCYCLE PARKING AREA NOTES

1. PAVEMENT SHALL BE 6" CONCRETE WITH STEEL FABRIC REINFORCEMENT, SEE MN/DOT STD. PLATE 1018.
2. CONSTRUCT L1T OR L2KT JOINT AT INTERFACE WITH CONCRETE CURB & GUTTER.
3. SEAL ALL PAVING JOINTS IN MOTORCYCLE PARKING AREA:
   C4 JOINT– JOINT SEALER SPEC. 3721
   L1T OR L2KT JOINT–JOINT SEDLER SPEC. 3723
4. PAYMENT FOR REBARS SHALL BE INCIDENTAL.
5. DELETE MN/DOT SPEC. 2301, 3L (SURFACE FINISHING) AND SUBSTITUTE SPEC. 2531, 3E
6. TYPICAL PANEL IS 9.25' x 26'.

(NO SCALE)

BEACH LOT ENTRANCE PROFILE

ELEVATION OF RAMP Scale: 3/8"=1'-0"

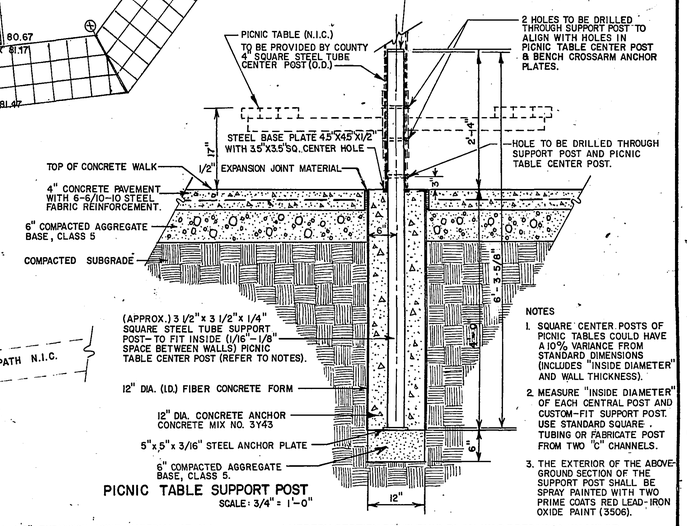


CURB RAMP - SECTION A-A Scale: 3/4"=1'-0"

SWIMMING BEACH PARKING LOT

0 10 20 30

SCALE



PICNIC TABLE SUPPORT POST

SCALE: 3/4" = 1'-0"

NOTES

1. SQUARE CENTER POSTS OF PICNIC TABLES COULD HAVE A 10% VARIANCE FROM STANDARD DIMENSIONS (INCLUDES "INSIDE DIAMETER" AND WALL THICKNESS).
2. MEASURE "INSIDE DIAMETER" OF EACH CENTRAL POST AND CUSTOM–FIT SUPPORT POST. USE STANDARD SQUARE TUBING OR FABRICATE POST FROM TWO "C" CHANNELS.
3. THE EXTERIOR OF THE ABOVE-GROUND SECTION OF THE SUPPORT POST SHALL BE SPRAY PAINTED WITH TWO PRIME COATS RED LEAD–IRON OXIDE PAINT (3506).

NOTES

1. INSTALL 1/2" EXPANSION JOINT MATERIAL AT ALL INTERFACING SURFACES OF CONCRETE PAVEMENT AND SIDEWALK WITH BUILDING WALLS, RAISED PLANTER WALLS, FREE STANDING WALLS, CURBLINES, BUILDING ENTRANCE SLABS, AND DESIGNATED PAVEMENT EXPANSION JOINTS.
   EXPANSION JOINTS ARE DESIGNATED BY ⊗
2. BEACH REFECTORY BUILDING, RAISED PLANTER, FREE STANDING WALL, TRASH ENCLOSURE WALL, AND ENTRANCE SLABS WILL BE CONSTRUCTED PRIOR TO INSTALLATION OF CONCRETE PAVEMENT AND WALK.
3. THE CENTER POINT OF PICNIC TABLE SUPPORT POSTS IS DESIGNATED BY ⊡. SEE DETAIL.
4. THE 4" CONCRETE WALK SHALL HAVE A SPEC. 2531.3E SURFACE FINISH.
5. ALL JOINTS SHALL BE SPACED AT INTERVALS SHOWN ON PLAN. THE LOCATION OF EACH JOINT SHALL BE MARKED ON THE FORMS OR IN A MANNER SATISFACTORY TO THE ENGINEER PRIOR TO STRIKING OR TOOLING.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kenneth C. Amons

DATE 8-17-84 REG. NO. 12262

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.

James E. Tolan

DATE 8/15/84 REG. NO. 16153

PROJECT NO. SG82115-1

SHEET NO. 22 OF 62 SHEETS

26-131

OUTFALL GUTTER

LEVEL GUTTER

WILLIAMS PIPELINE COMPANY
8" HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE

ACCESS ROAD STA. 59+90.74 =
BEACH LOT STA. 0+00 N-S

BEGIN BITUMINOUS CURB STA. 59+50 LT.

℄ ACCESS ROAD

VERTICAL CURVE MAINTAINED - WARP OUTSIDE RADIUS TO FIT LOT GRADES.

SURFACE DRAIN STA. 1+27 LT. 30.5'
CASTING ELEVATION 880.22 ±

SURFACE DRAIN STA. 2+01 LT. 30.5'
CASTING ELEVATION 879.48 ±

B618 CONC C. & G.
SEE SHEET NO. 22

6" WIDE PAINTED YELLOW STRIPING

4" WIDE PAINTED WHITE STRIPING

WARP TRANSITION

BEACH LOT STA. 2+46.0 N-S ±
BEACH LOT STA. 0+00 E-W

STA. 2+61.5

WARP GRADE TO SURFACE DRAIN

STA. 63+49.5

STA. 1+87.5
880.21

END BITUMINOUS CURB
STA. 64+71.5

EXPANSION JOINT MATERIAL
STA. 64+97.03
ELEV. 881.22

BASE LINE

63+50
81.96

64
81.71

64+48.50
EL. 81.47

64+77.13=
3+81.54
EL. 881.32

65+00
81.21

B618 CONC. C. & G.
SEE SHEET NO. 22

WARP

CONCRETE PAVEMENT
ITEM NO. 2301.501
SEE SHEET NO. 22

2+83.17
880.76

2+57.49
880.62

3+33.25

64+46.84

CONCRETE WALK
ITEM NO. 2521.501
SEE SHEET NO. 22

BEACH REFECTORY BUILDING

SWIMMING BEACH PARKING LOT

SCALE 0 10 20 30

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DATE _____ REG. NO. _____

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James E. Olson

DATE 5/14/85 REG. NO 16159

PARKING AREA PLAN

SUPPLEMENTAL AGREEMENT NO. 3

PROJECT NO. SG82115-1

SHEET NO. 22A OF 62 SHEETS

26-131

OUTFALL GUTTER

LEVEL GUTTER

WILLIAMS PIPELINE COMPANY
8" HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE

ACCESS ROAD STA. 59+90.74 =
BEACH LOT STA. 0+00 N-S

BEGIN BITUMINOUS CURB STA. 59+50 LT.

℄ ACCESS ROAD

VERTICAL CURVE MAINTAINED – WARP OUTSIDE RADIUS TO FIT LOT GRADES.

SURFACE DRAIN STA. 1+27 LT. 30.5'
CASTING ELEVATION 880.22 ±

SURFACE DRAIN STA. 2+01 LT. 30.5'
CASTING ELEVATION 879.48 ±

B618 CONC. C & G.
SEE SHEET NO. 22

6" WIDE PAINTED YELLOW STRIPING

4" WIDE PAINTED WHITE STRIPING

BASE LINE

END BITUMINOUS CURB
STA. 64+71.5

EXPANSION JOINT MATERIAL
STA. 64+97.03
ELEV. 881.22

WARP

CONCRETE PAVEMENT
ITEM NO. 2.30.501
SEE SHEET NO. 22

CONCRETE WALK
ITEM NO. 2521.501
SEE SHEET NO. 22

BEACH REFECTORY BUILDING

WARP GRADE TO SURFACE DRAIN

BEACH LOT STA. 2+46.0 N-S ±
BEACH LOT STA. 0+00 E-W

STA. 1+87.5
880.21

STA. 63+49.5

SWIMMING BEACH PARKING LOT

SCALE 0 10 20 30

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DATE _____ REG. NO. _____

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DATE 5/14/85 REG. NO. 16159

PARKING AREA PLAN

SUPPLEMENTAL AGREEMENT NO. 3

PROJECT NO. SG82115-1

SHEET NO. 22A OF 62 SHEETS

OUTFALL GUTTER

LEVEL GUTTER

WILLIAMS PIPELINE COMPANY
8" HIGH PRESSURE PETROLEUM PRODUCTS PIPELINE

ACCESS ROAD STA. 59+90.74 = BEACH LOT STA. 0+00 N-S

BEGIN BITUMINOUS CURB STA. 59+50 LT.

℄ ACCESS ROAD

VERTICAL CURVE MAINTAINED - WARP OUTSIDE RADIUS TO FIT LOT GRADES.

SURFACE DRAIN STA. 1+27 LT. 30.5' CASTING ELEVATION 880.22 ±

SURFACE DRAIN STA. 2+01 LT. 30.5' CASTING ELEVATION 879.48 ±

B618 CONC C. & G. SEE SHEET NO. 22

6" WIDE PAINTED YELLOW STRIPING

4" WIDE PAINTED WHITE STRIPING

WARP GRADE TO SURFACE DRAIN

BEACH LOT STA. 2+46.0 N-S = BEACH LOT STA. 0+00 E-W

STA. 63+49.5

STA. 1+87.5 880.21

STA. 2+51.5

END BITUMINOUS CURB STA. 64+71.5

EXPANSION JOINT MATERIAL STA. 64+97.03 ELEV. 881.22

BASE LINE

CONCRETE PAVEMENT ITEM NO. 2301.501 SEE SHEET NO. 22

CONCRETE WALK ITEM NO. 2521.501 SEE SHEET NO. 22

BEACH REFECTORY BUILDING

SWIMMING BEACH PARKING LOT

SCALE 0 10 20 30

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James F. Solare

DATE 5/14/85 REG. NO. 16159

PARKING AREA PLAN

SUPPLEMENTAL AGREEMENT NO. 3

PROJECT NO. SG82115-1

SHEET NO. 22A OF 62 SHEETS

20-131

RUSH

LAKE

LONG

LAKE

NATURE INTERPRETIVE PARKING LOT

LARGE GROUP PICNIC AREA PARKING LOT

MAINTENANCE BUILDING

STA. 29+66.92 CONST. ℄
STA. 28+00.00 SURVEY ℄

STA. 44+84.49 CONST. ℄
STA. 44+72.80 SURVEY ℄

SMALL GROUP PICNIC AREA PARKING LOT

BEACH PARKING LOT

DAY CAMP PARKING LOT

PARK ENTRANCE

EXISTING WATERMAIN

CENTERLINE OF OLD HIGHWAY 8

EXISTING M.H.

0 100 200 300
SCALE

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DATE _____ REG. NO. _____

LEGEND

—I——I— WATERMAIN
—>——>— STORM SEWER
—Sa——>— SANITARY SEWER

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

Daniel M. Schacht

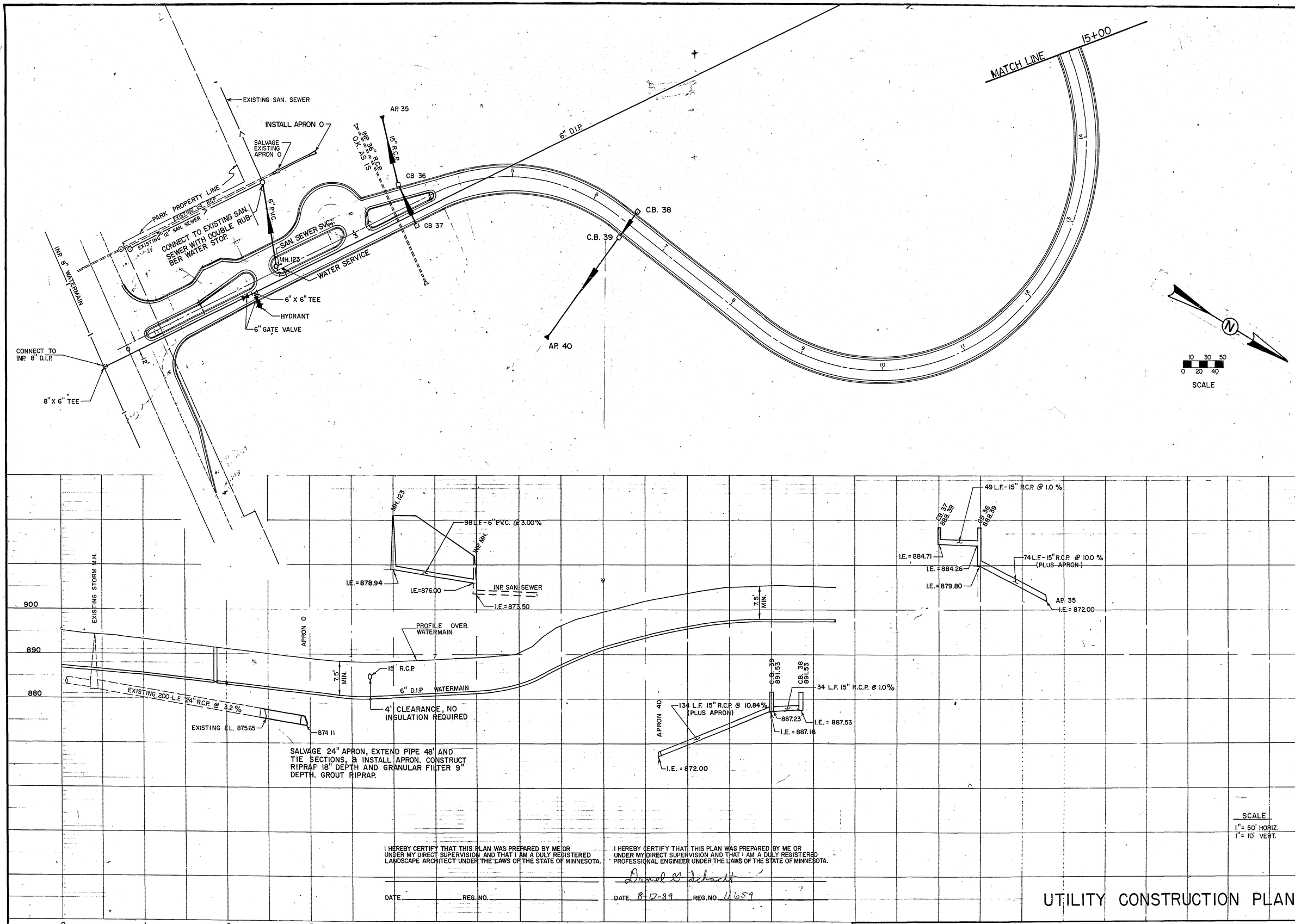
DATE 8-17-89 REG. NO. 11659

UTILITY SYSTEM LAYOUT

PROJECT NO. SG82115-1

SHEET NO. 23 OF 62 SHEETS

26-131



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Daniel W Schacht

DATE 8-17-89 REG. NO. 11659

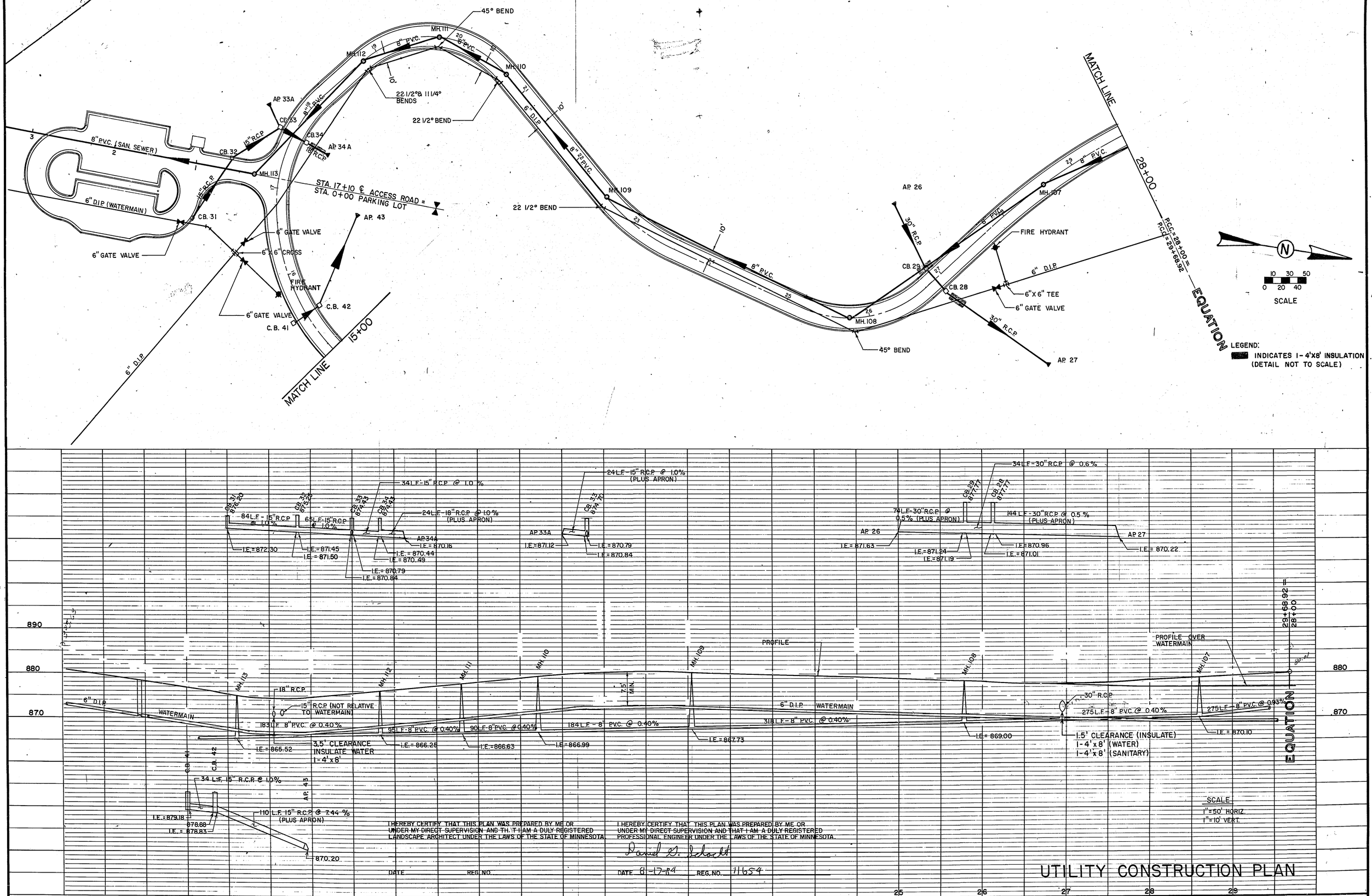
SCALE
1" = 50' HORIZ.
1" = 10' VERT.

UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

Sheet No. 24 of 62 Sheets

26-131



SCALE
1" = 50' HORIZ.
1" = 10' VERT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND TH. T I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG. NO. _____

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Daniel D. Schadt

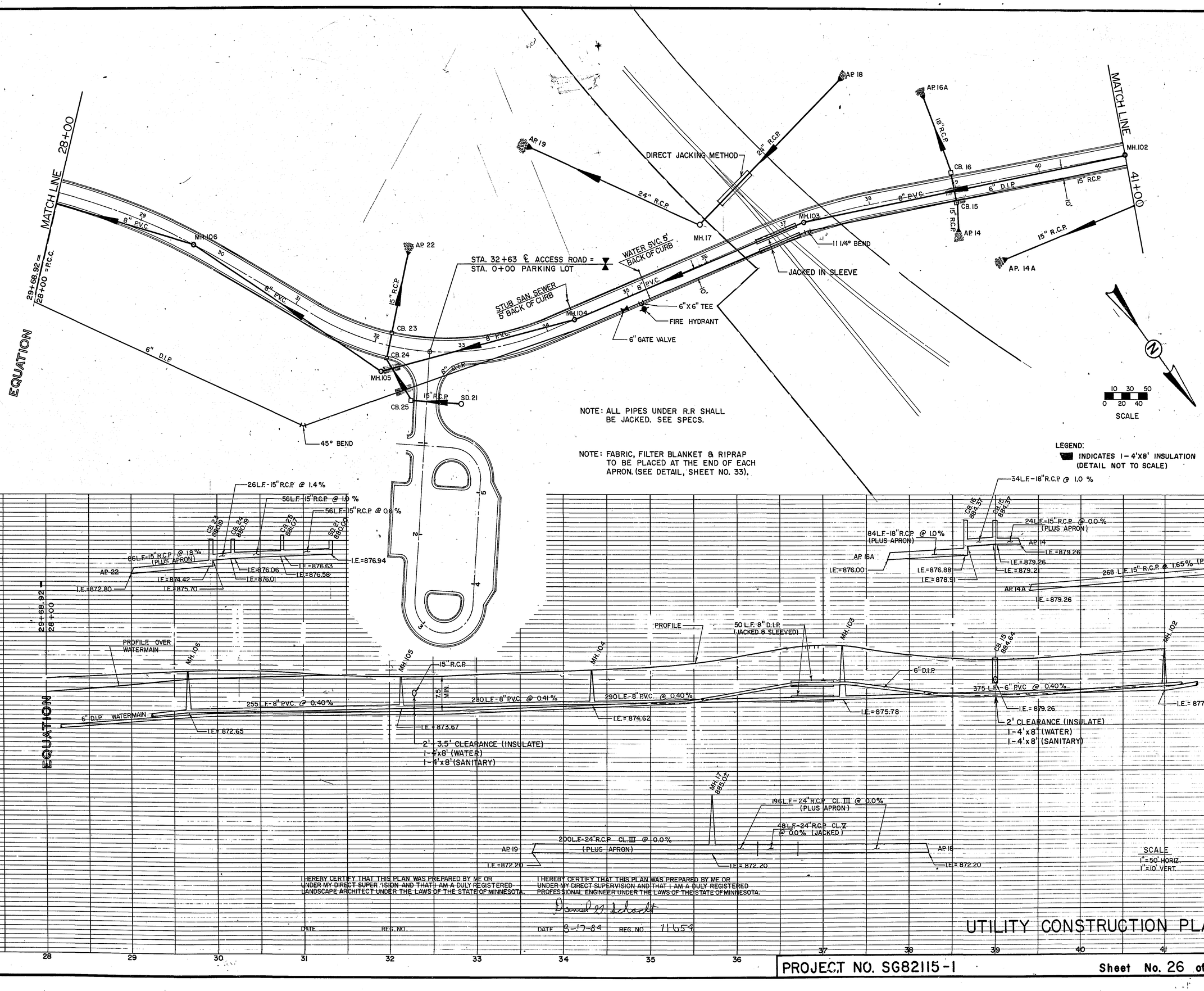
DATE 8-17-84 REG. NO. 11654

UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

Sheet No. 25 of 62 Sheets

26-131



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DATE REG. NO.

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Donald J. Schadt

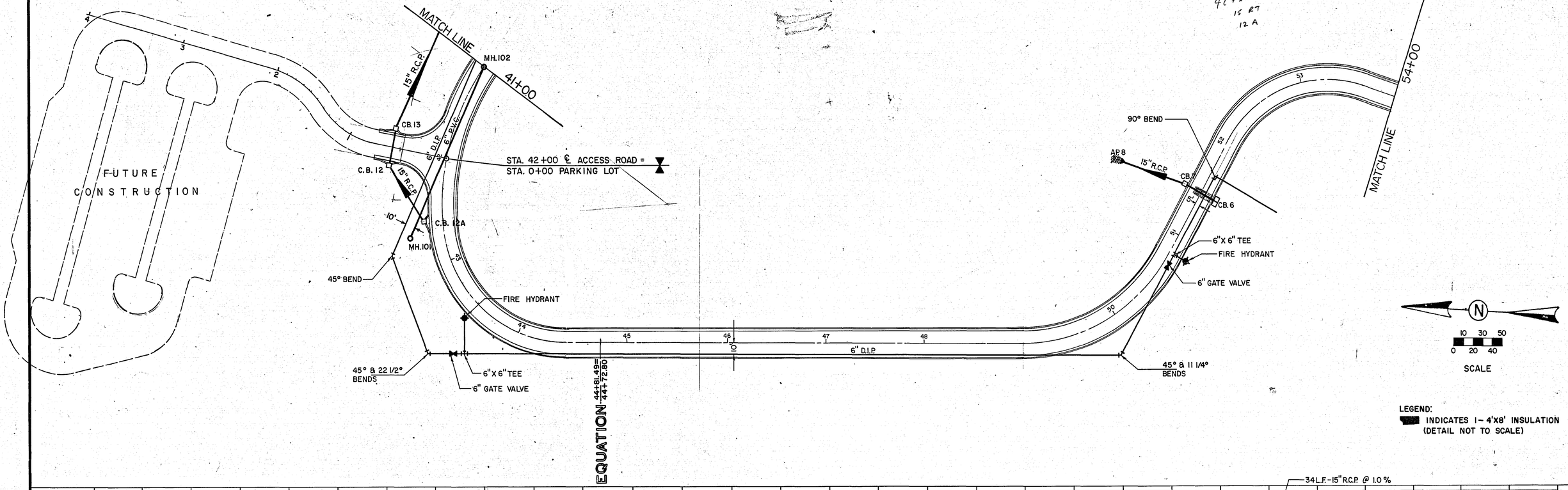
DATE 3-17-84 REG. NO. 11654

UTILITY CONSTRUCTION PLAN

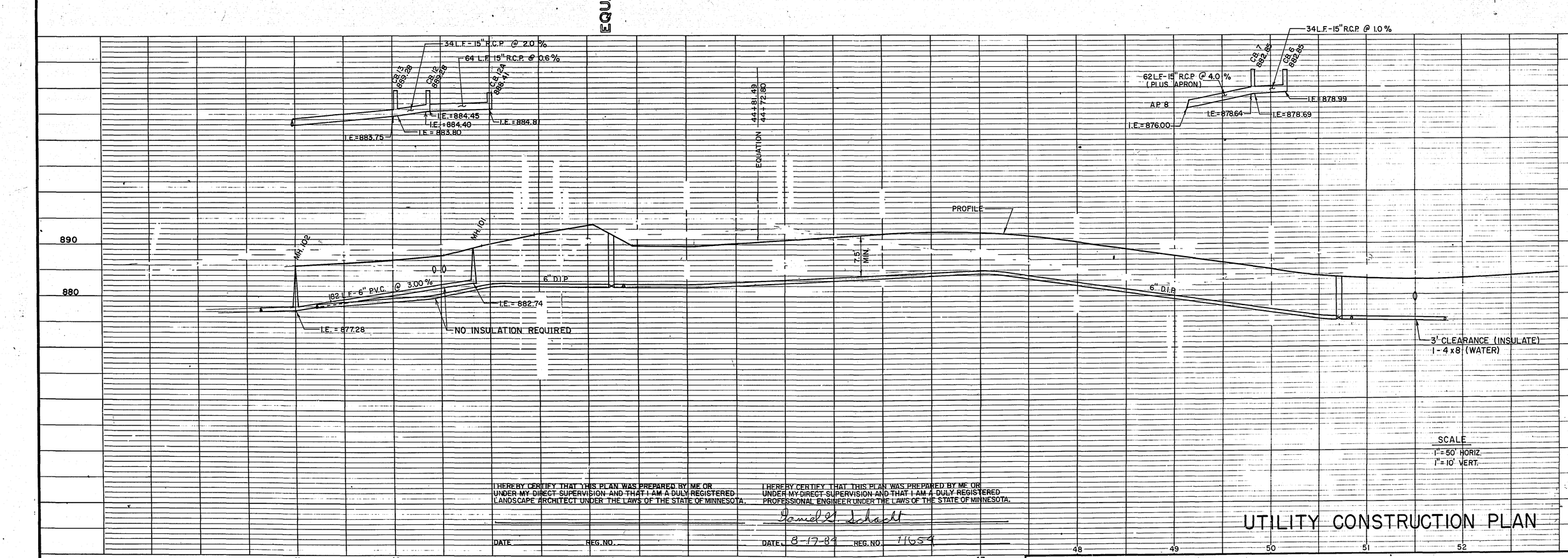
PROJECT NO. SG82115-1

Sheet No. 26 of 62 Sheets

42+60
15 RT
12 A



LEGEND:
INDICATES 1-4'X8' INSULATION (DETAIL NOT TO SCALE)



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DATE _____ REG.NO. _____

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Daniel R. Schacht

DATE 8-17-82 REG.NO. 11654

UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

Sheet No. 27 of 62 Sheets

26-131

STA. 59+90.74 ℄ ACCESS ROAD =
STA. 0+00 PARKING LOT

MATCH LINE 54+00

55 56 57 59 60 61 62 63 64 65 66

24" R.C.P.
8" P.V.C.
6" D.I.P.

CB.5
CB.4
CB.3
C.B. 1A
CB.2
CB.1
MH. 119
MH. 120

24" R.C.P.
18" R.C.P.
15" R.C.P.
6" D.I.P.
6" P.V.C.
15" R.C.P.

11 1/4° BEND
6" D.I.P.
45° BEND
6" GATE VALVE
6" PLUG
6" X 6" TEE
6" GATE VALVE
6" D.I.P.
22 1/2° BEND

N

10 30 50
0 20 40
SCALE

LEGEND:
INDICATES 1—4'X8' INSULATION
(DETAIL NOT TO SCALE)

56 L.F.-15" R.C.P. @ 0.6%
170 L.F.-15" R.C.P. @ 0.82%

CB.1 879.53
CB.2 879.69
CB.1A 879.89

I.E.= 876.50
I.E.= 876.19
I.E.= 876.19
I.E.= 876.14
I.E.= 877.55

890
880
870

PROFILE OVER PIPE
7.5' MIN.
6" D.I.P.
6" D.I.P.

SCALE
1"= 50' HORIZ.
1"= 10' VERT.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE _____ REG. NO. _____

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Daniel D. Schadt

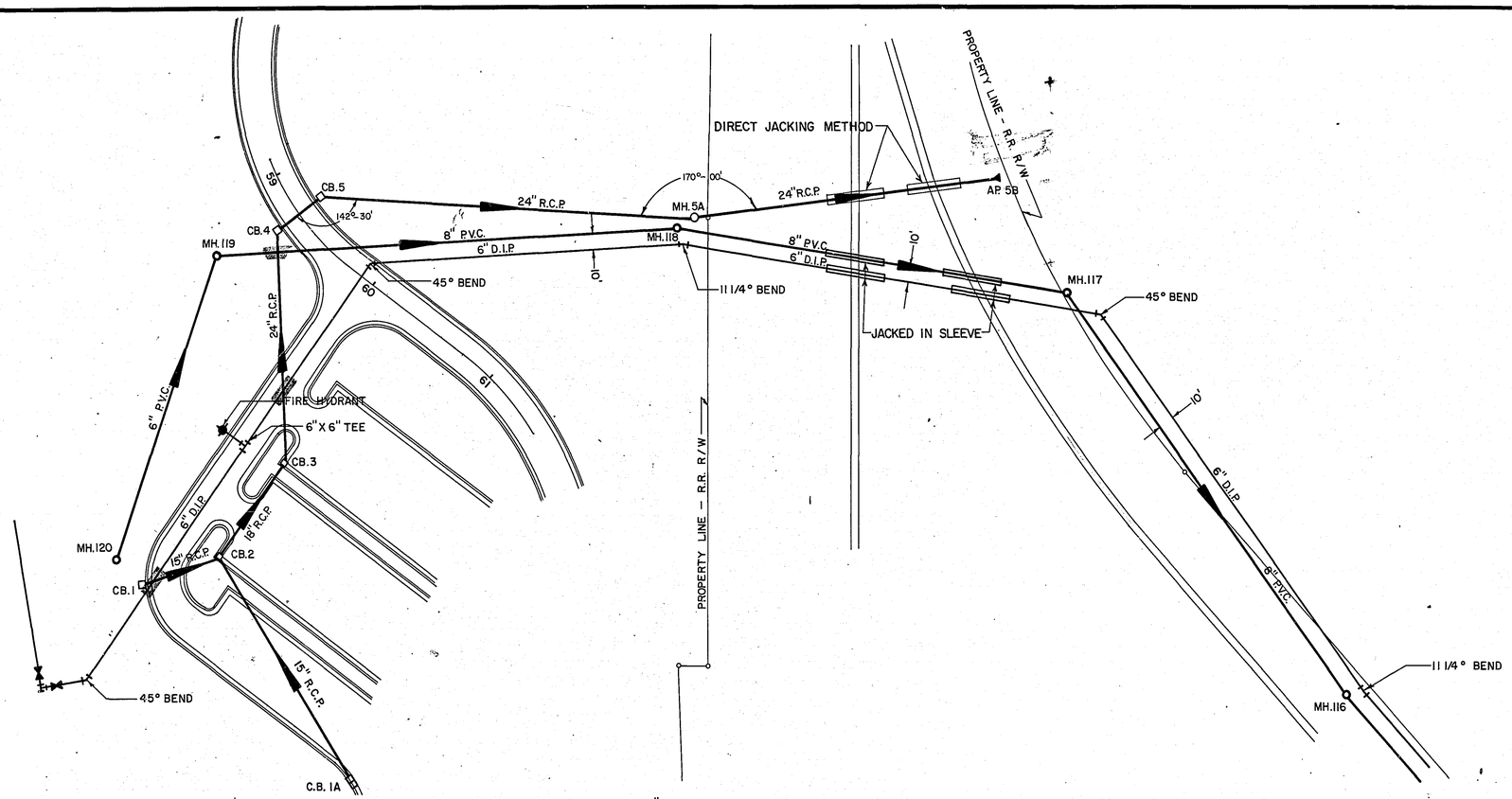
DATE 8/17/84 REG. NO. 11654

UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

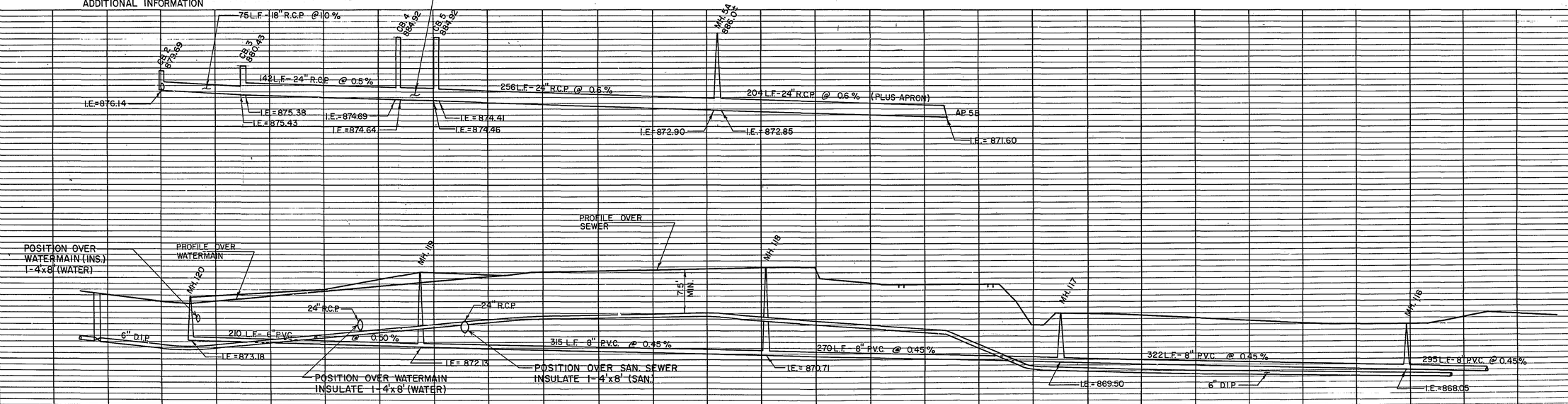
Sheet No. 28 of 62 Sheets

26-131



NOTE: SEE SHEET NO. 28 FOR ADDITIONAL INFORMATION

LEGEND:
INDICATES 1-4'X8' INSULATION (DETAIL NOT TO SCALE)



SCALE
1"=50' HORIZ.
1"=10' VERT

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Daniel J. Schacht

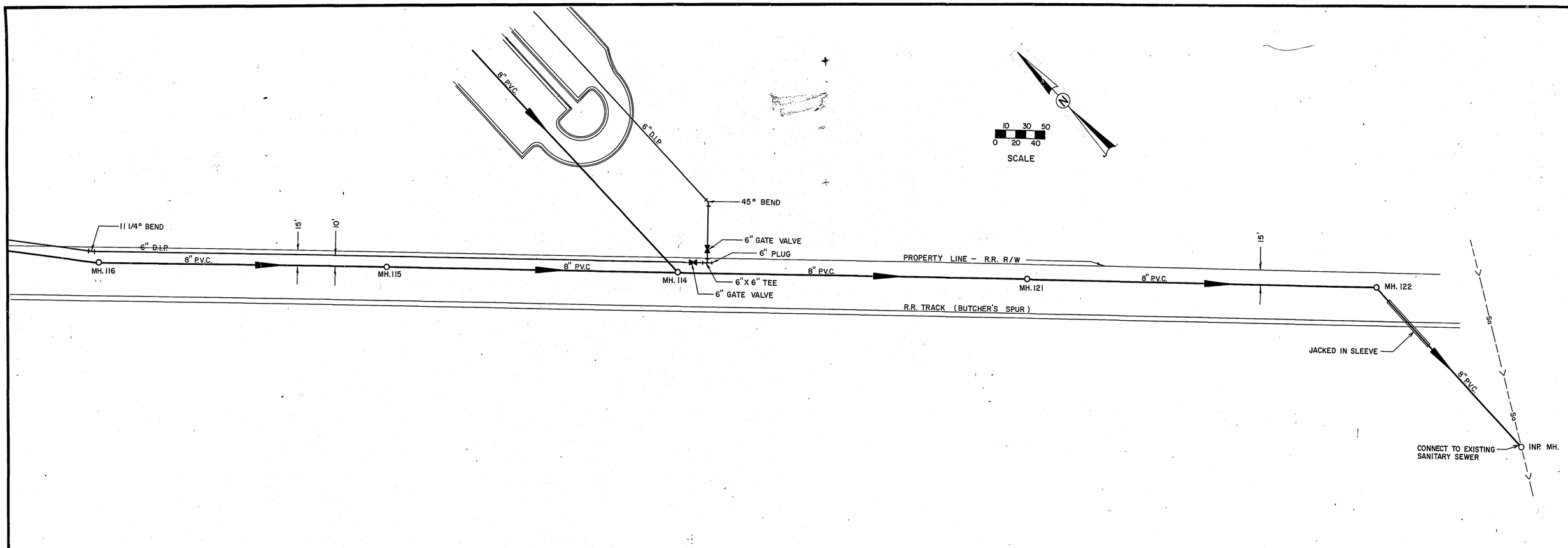
DATE 8-17-89 REG. NO. 11659

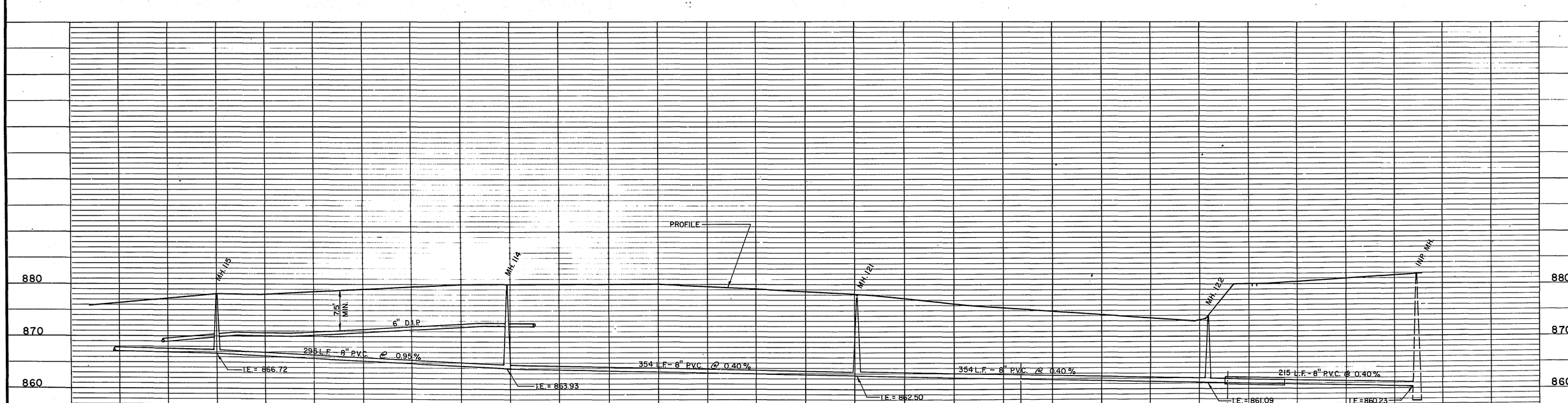
UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

Sheet No. 29 of 62 Sheets

26-131





I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ REG. NO. _____

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Daniel V. Schadt

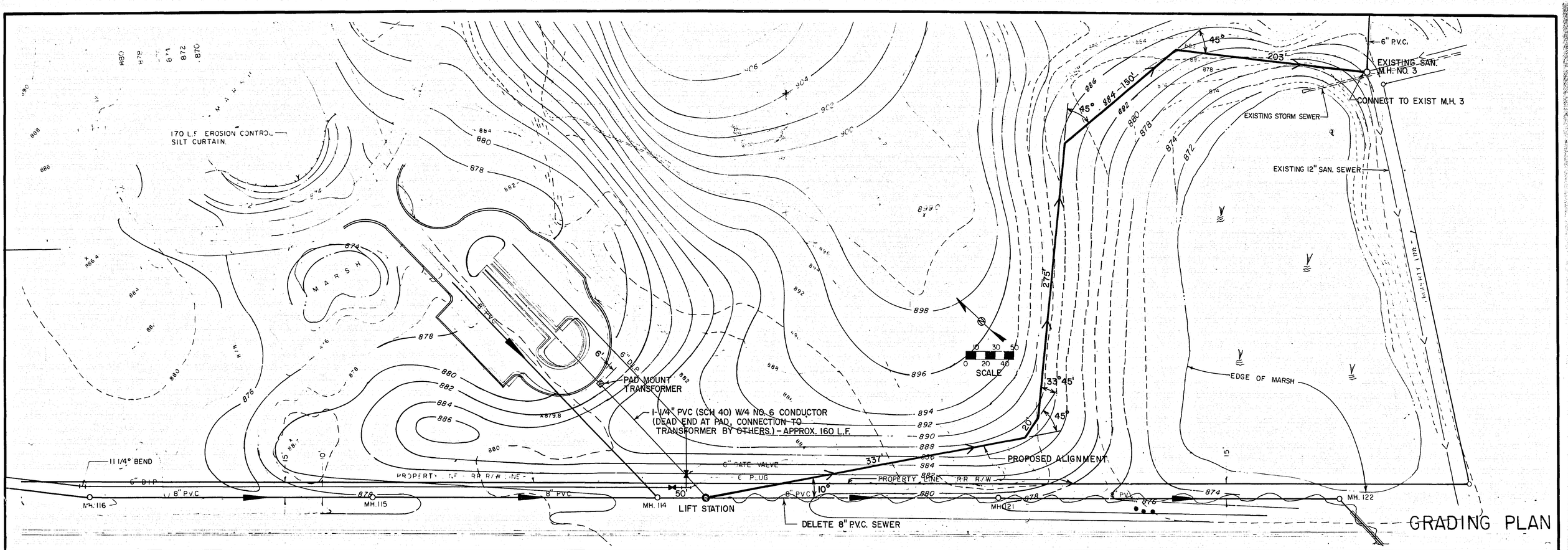
DATE 8-17-89 REG. NO. 11659

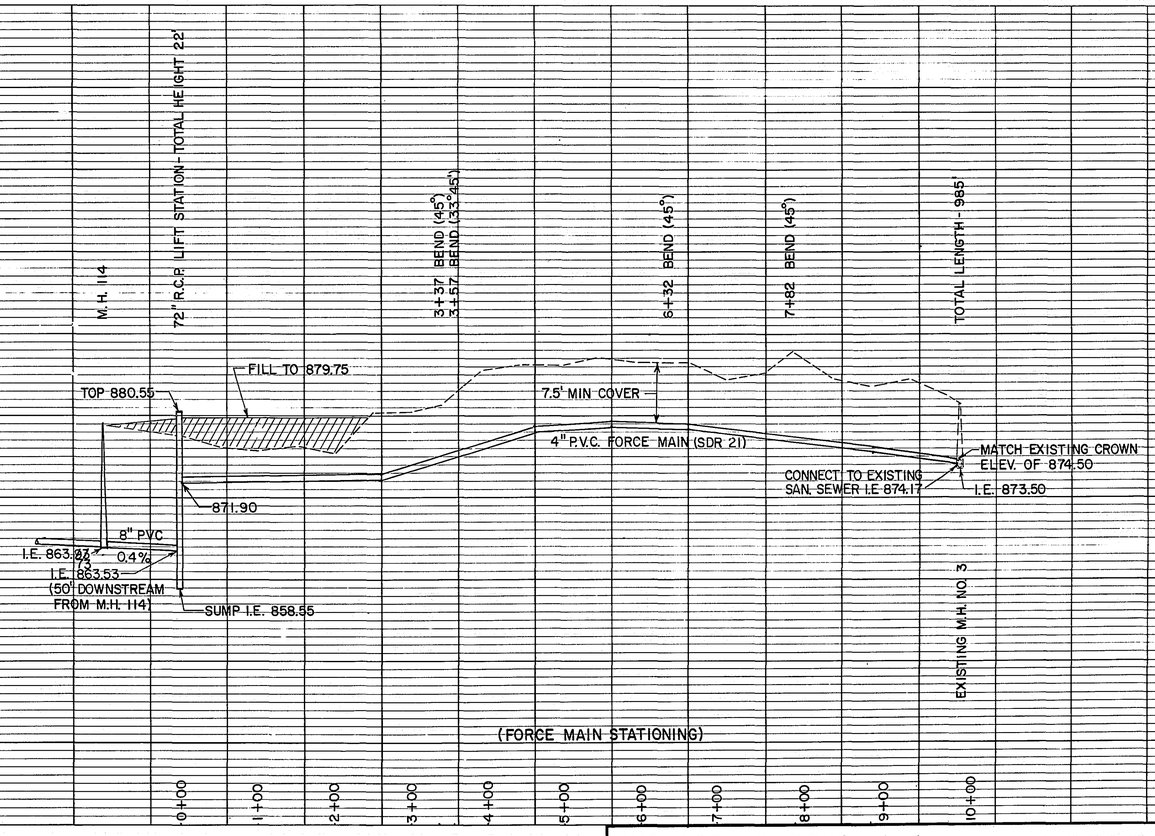
UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

Sheet No. 30 of 62 Sheets

26-131





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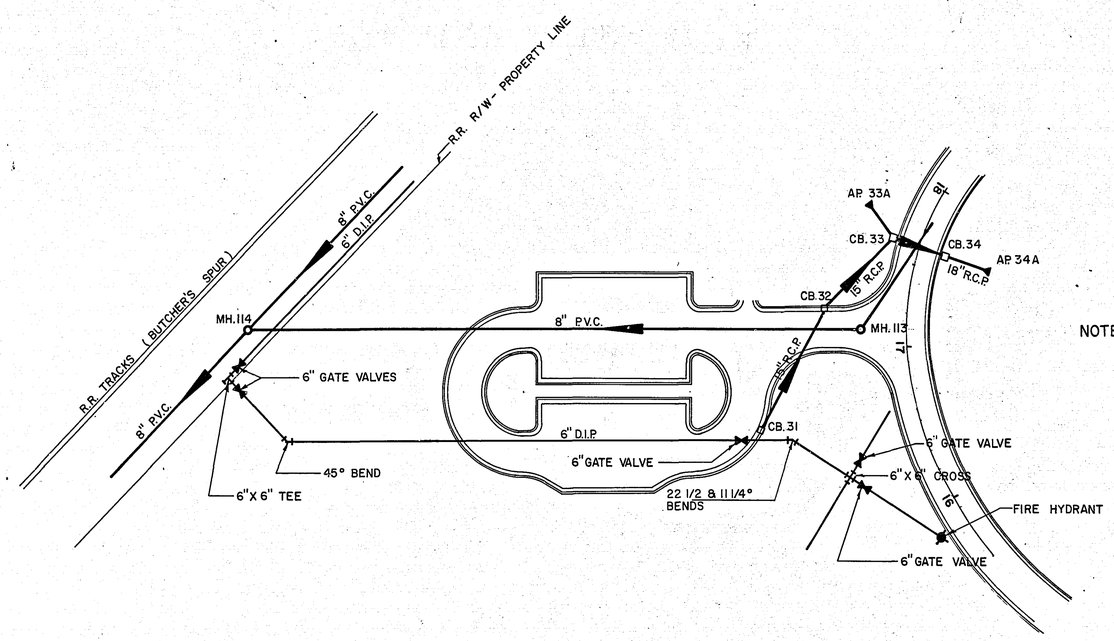
James E. Volant

DATE 3/23/85 REG. NO. 16159

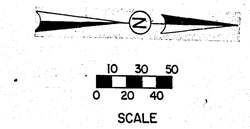
PROJECT NO. SG82115-1

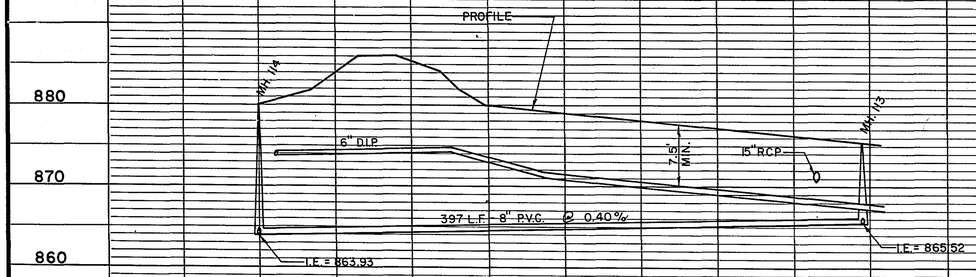
Sheet No. 30A of 62 Sheets

26-131



NOTE: SEE SHEET NO. 25 FOR INSULATION LOCATIONS.





SCALE
1" = 50' HORIZ.
1" = 10' VERT.

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DATE _____ REG. NO. _____

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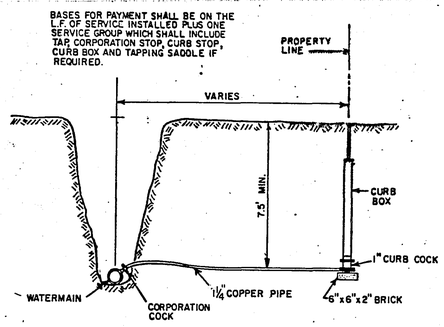
Daniel R. Schacht

DATE 8-17-89 REG. NO. 11654

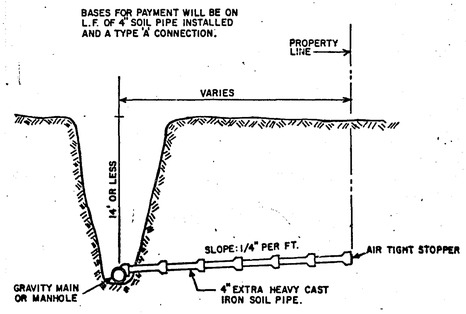
UTILITY CONSTRUCTION PLAN

PROJECT NO. SG82115-1

Sheet No. 31 of 62 Sheets

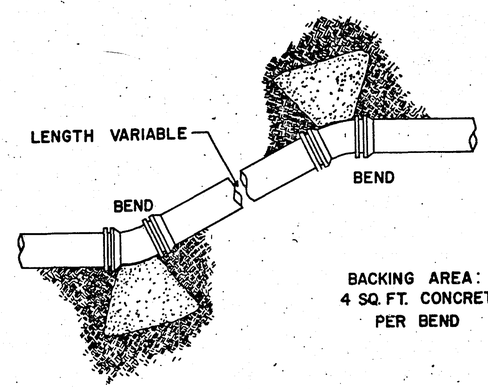


WATER SERVICE DETAIL



SEWER SERVICE CONNECTION — TYPE 'A'

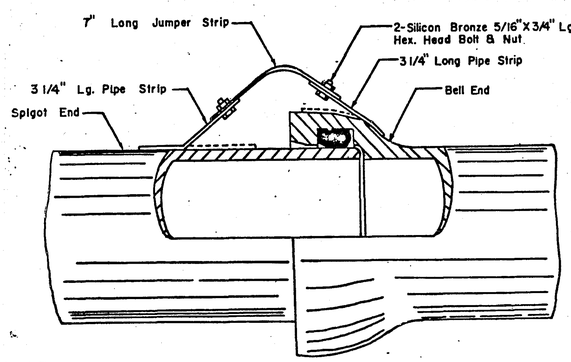
(FROM SERVICE WYE OR MANHOLE)



BACKING AREA:
4 SQ. FT. CONCRETE
PER BEND

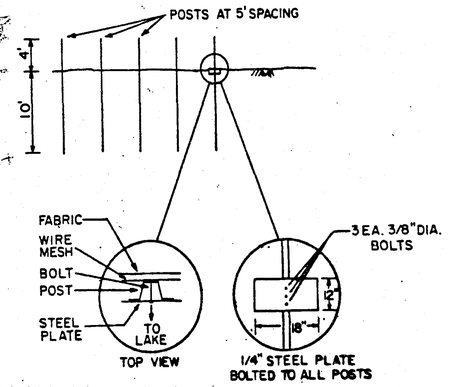
CITY OF NEW BRIGHTON

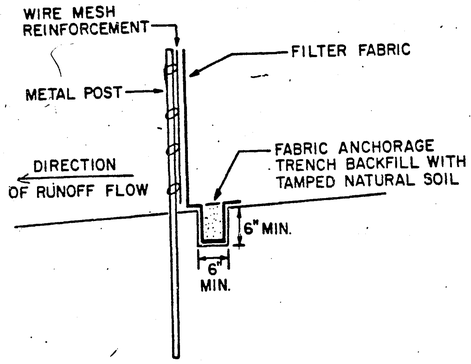
BLOCKING AT TEES AND BENDS



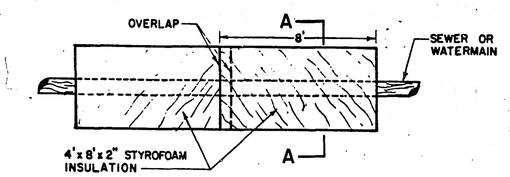
SILT CURTAIN TYPE B

PLACED IN AREAS WHERE WATER DEPTH IS 2.0' OR LESS

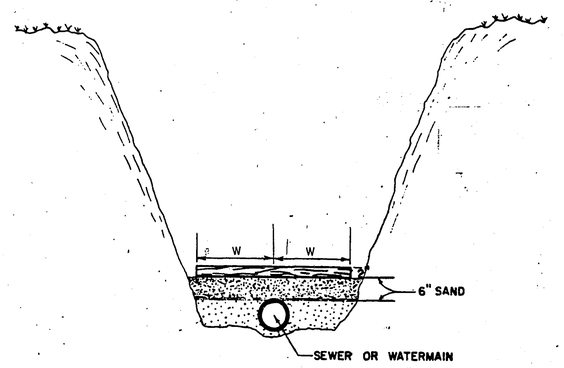




WIRE MESH REINFORCEMENT SHALL HAVE MINIMUM 12½ GAUGE WIRE WITH A MAXIMUM MESH SPACING OF 6 INCHES.
FILTER FABRIC SHALL BE TREVIRA 1115 OR AN APPROVED EQUAL AS DESIGNATED BY THE ENGINEER.
ATTACH WIRE MESH TO STEEL POSTS WITH TIE WIRES.
ATTACH FILTER FABRIC TO WIRE MESH WITH HOG RINGS.



TOP VIEW



CROSS-SECTION A-A

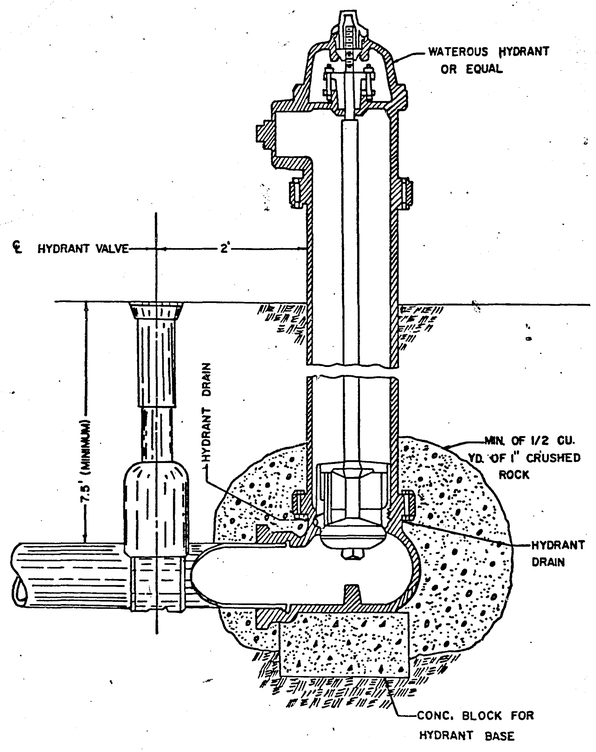
CITY OF NEW BRIGHTON

TYPICAL SEWER & WATERMAIN INSULATION

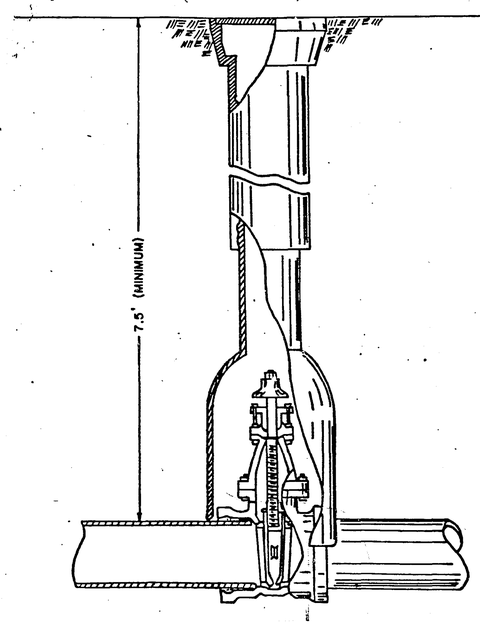
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ REG. NO. _____

FIRE HYDRANT INSTALLATION (TYPICAL)

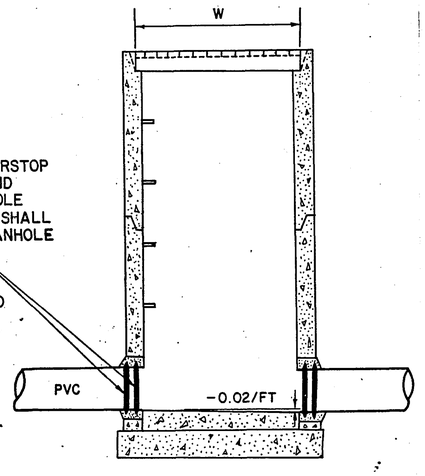


GATE VALVE & BOX INSTALLATION (TYPICAL)

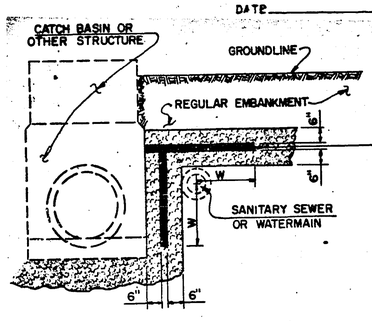


PVC CONNECTION DETAIL

RUBBER JOINT GASKET



DOUBLE RUBBER WATERSTOP CEMENTED TO PVC AND GROUTED INTO MANHOLE AS SHOWN. PAYMENT SHALL BE INCIDENTAL TO MANHOLE CONSTRUCTION. PAYMENT SHALL BE MADE AS ITEM 503.602. CONNECT TO EXISTING SANITARY SEWER. PAID FOR BY THE EACH.



WATER AND SANITARY SEWER INSULATION DETAIL

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

Daniel G. Schadt

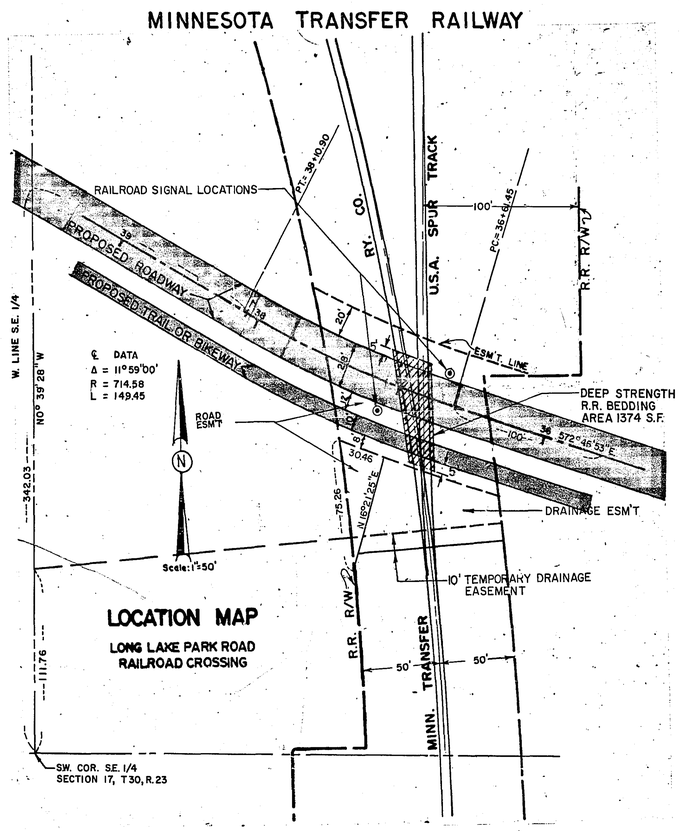
DATE 8-17-84 REG. NO. 11659

DETAIL SHEET

PROJECT NO. SG82115-1

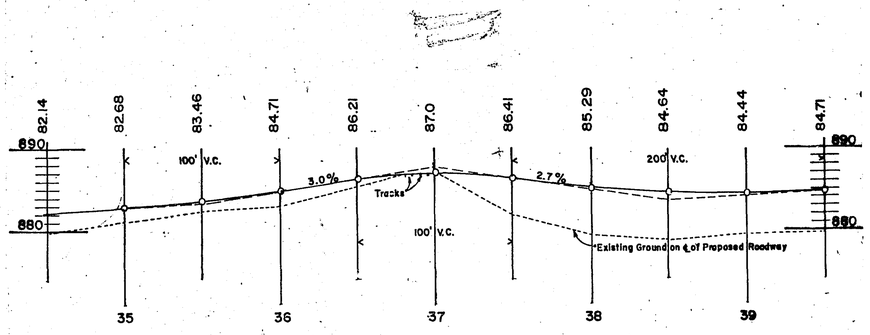
SHEET NO. 32 OF 62 SHEETS

26-131



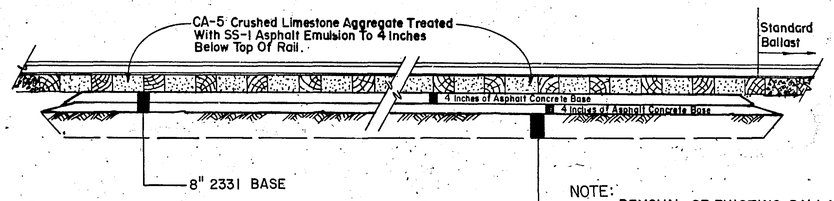
LOCATION MAP
LONG LAKE PARK ROAD
RAILROAD CROSSING

℄ GRADE PROFILE OF PARK ROAD THRU R.R. CROSSING



LONG LAKE PARK ROAD
RAILROAD CROSSING

AMERICAN RAILWAY ENGINEERING ASSOCIATION CROSSING DETAIL



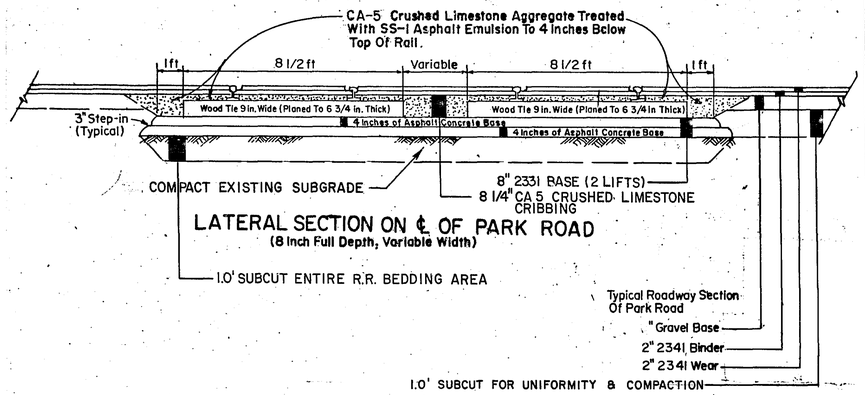
NOTE:
TIE & RAIL REMOVAL & REPLACEMENT SHALL BE BY THE RAILROAD. THE CONTRACTOR WILL COOPERATE WITH THE RAILROAD IN CONDUCTING 8" 2331 BASE COURSE MIXTURE.

LONGITUDINAL SECTION
(8 Inch Full Depth, 65 to 70 Feet Long)

1.0' SUBCUT ENTIRE RAILROAD BEDDING AREA

NOTE:
REMOVAL OF EXISTING BALLAST & RECOMPACTION OF SUB BASE SHALL BE INCIDENTAL TO CROSSING WORK

LONG LAKE PARK ROAD
RAILROAD CROSSING



LATERAL SECTION ON ℄ OF PARK ROAD
(8 Inch Full Depth, Variable Width)

LONG LAKE PARK ROAD
RAILROAD CROSSING

QUANTITIES FOR CONTRACTORS INFORMATION ONLY			
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	3.2
2331.514	BASE MIXTURE COURSE	TON	71.4
2358.501	SS-1 ASPHALT EMULSION	GAL.	134
2105.541	CA5 CRUSHED LIMESTONE CRIBBING	TON	71.4
2105.501	R.R. CROSSING SUBCUT	C.Y.	54.1

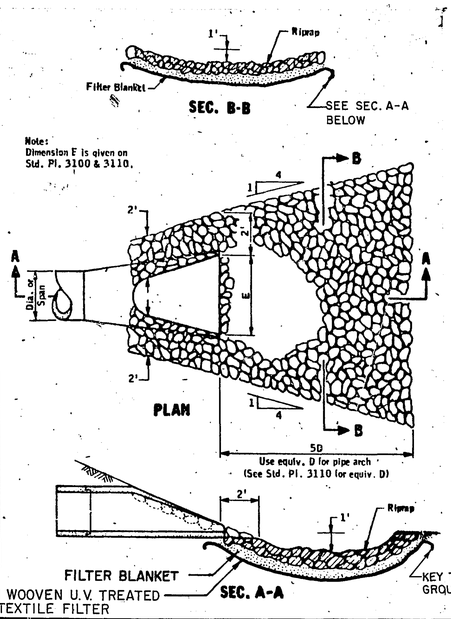
NOTE:
ALL OF THE ABOVE ITEMS TO BE PAID FOR UNDER THE ITEM LISTED ON THE ESTIMATED QUANTITY SHEET.

RIPRAP AT R.C.P. OUTLET
(FABRIC LINER PLACEMENT)

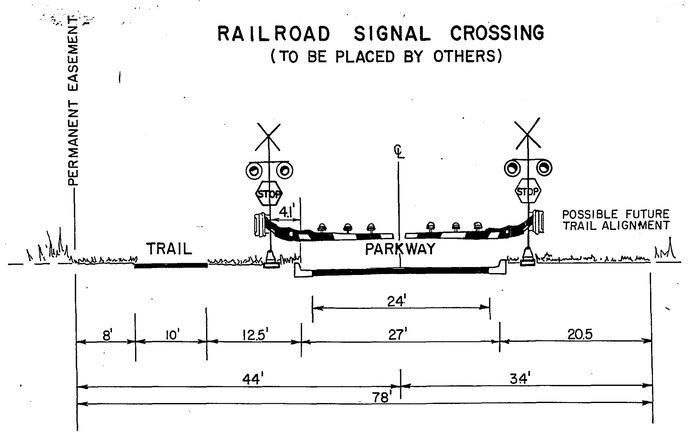
TABLE OF QUANTITIES

DIAM. ROUND PIPE	RIPRAP 12" DEPTH CLASS A CU. YD.	FILTER BLANKET 6" DEPTH TYPE 1 CU. YD.	RIPRAP 18" DEPTH CLASS B CU. YD.	FILTER BLANKET 9" DEPTH TYPE 2 CU. YD.
12"	1.7	0.9	2.6	1.3
15"	2.3	1.2	3.5	1.8
18"	2.9	1.5	4.4	2.2
21"	3.7	1.9	5.6	2.8
24"	4.6	2.3	6.9	3.5
27"	5.5	2.8	8.3	4.2
30"	6.6	3.3	9.9	5.0
36"	8.8	4.4	13.2	6.6
42"	10.9	5.5	16.4	8.2
48"	13.4	6.7	20.1	10.1
54"	15.8	7.9	23.7	11.9
60"	18.4	9.2	27.6	13.8
66"	21.6	10.8	32.4	16.2
72"	24.9	12.5	37.4	18.7
84"	32.0	16.0	48.0	24.0
90"	36.4	18.2	54.6	27.3
SPAN PIPE-ARCH				
22"	2.9	1.5	4.4	2.2
28"	4.6	2.3	6.9	3.5
36"	6.5	3.3	9.8	4.9
43"	8.8	4.4	13.2	6.6
51"	10.9	5.5	16.4	8.2
58"	13.2	6.6	19.8	9.9
65"	15.8	7.9	23.7	11.9
73"	18.6	9.3	27.9	14.0
88"	25.9	13.0	38.9	19.5
102"	34.8	17.4	52.2	26.1
115"	35.2	17.6	52.8	26.4
122"	39.4	19.7	59.1	29.6
138"	49.0	24.5	73.5	36.8
154"	59.5	29.8	89.3	44.7

*Note: Requirements for riprap size and thickness and filter blanket will be designated in the plans.



RAILROAD SIGNAL CROSSING
(TO BE PLACED BY OTHERS)



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DATE _____ REG. NO. _____

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Duane R. Arnke

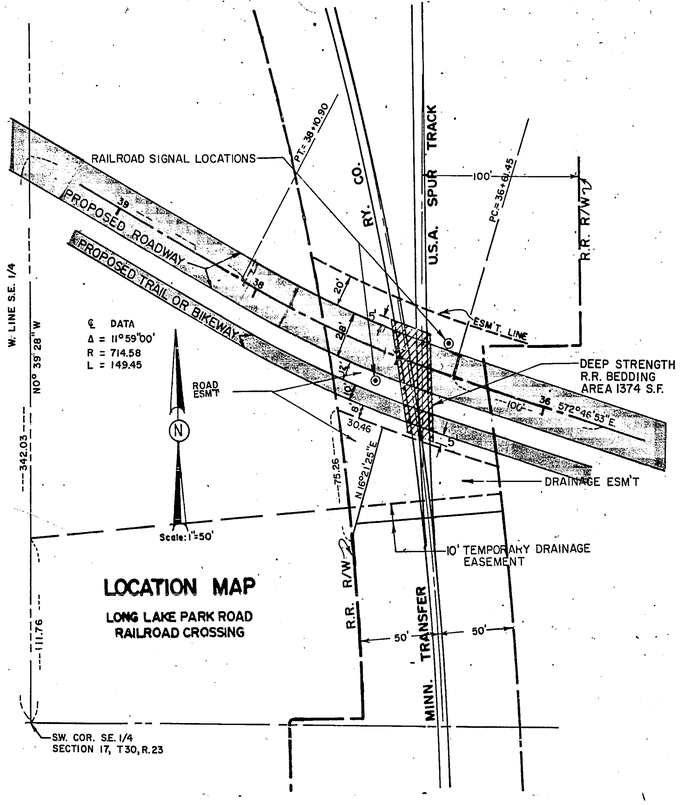
DATE 8/16/84 REG. NO. 5031

RAILROAD GRADE CROSSING & DETAILS

PROJECT NO. SG82115-1 SHEET NO. 33 OF 62 SHEETS

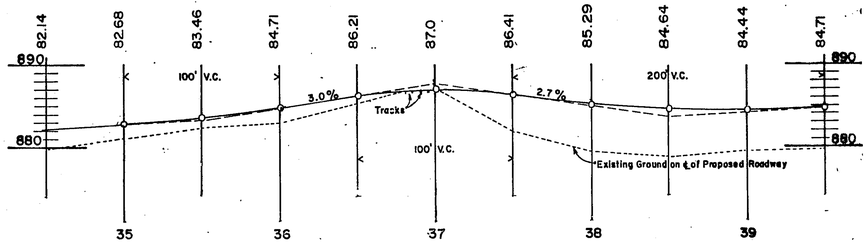
26-131

MINNESOTA TRANSFER RAILWAY



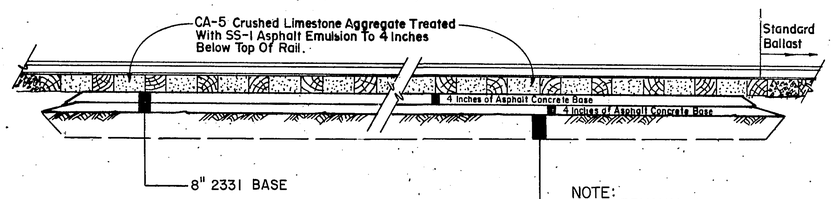
LOCATION MAP
LONG LAKE PARK ROAD
RAILROAD CROSSING

℄ GRADE PROFILE OF PARK ROAD THRU R.R. CROSSING



LONG LAKE PARK ROAD
RAILROAD CROSSING

AMERICAN RAILWAY ENGINEERING ASSOCIATION CROSSING DETAIL



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LONGITUDINAL SECTION
(8 Inch Full Depth; 65 to 70 Feet Long)

1.0' SUBCUT ENTIRE RAILROAD BEDDING AREA

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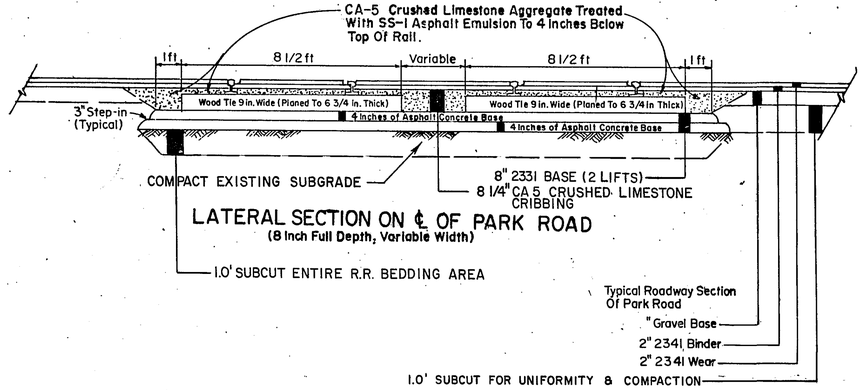
LONG LAKE PARK ROAD
RAILROAD CROSSING



LATERAL SECTION ON ℄ OF PARK ROAD
(8 Inch Full Depth, Variable Width)

LONG LAKE PARK ROAD
RAILROAD CROSSING

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24"	4.6	2.3	6.9	3.5
27"	5.5	2.8	8.3	4.2
30"	6.6	3.3	9.9	5.0
36"	8.8	4.4	13.2	6.6
42"	10.9	5.5	16.4	8.2
48"	13.4	6.7	20.1	10.1
54"	15.8	7.9	23.7	11.9
60"	18.4	9.2	27.6	13.8
66"	21.6	10.8	32.4	16.2
72"	24.9	12.5	37.4	18.7
84"	32.0	16.0	48.0	24.0
90"	36.4	18.2	54.6	27.3
SPAN PIPE-ARCH				
22"	2.9	1.5	4.4	2.2
28"	4.6	2.3	6.9	3.5
36"	6.5	3.3	9.8	4.9
43"	8.8	4.4	13.2	6.6
51"	10.9	5.5	16.4	8.2
58"	13.2	6.6	19.8	9.9
65"	15.8	7.9	23.7	11.9
73"	18.6	9.3	27.9	14.0
88"	25.9	13.0	38.9	19.5
102"	34.8	17.4	52.2	26.1
115"	35.2	17.6	52.8	26.4
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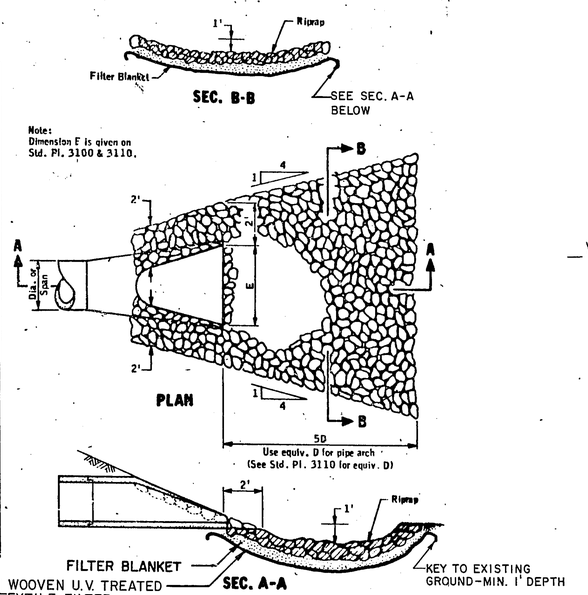
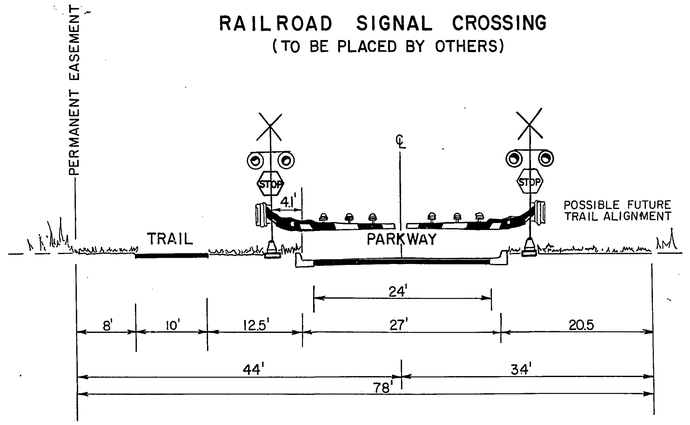
138"	49.0	24.5	73.5	36.8
154"	59.5	29.8	89.3	44.7

*Note: Requirements for riprap size and thickness and filter blanket will be designated in the plans.



RAILROAD SIGNAL CROSSING
(TO BE PLACED BY OTHERS)



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ REG. NO. _____

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Duane L. Anklam

DATE 5/16/84 REG. NO. 5031

RAILROAD GRADE CROSSING & DETAILS

PROJECT NO. SG82115-1 SHEET NO. 33 OF 62 SHEETS

26-121

PROPOSED DRAINAGE CHART

	STATION	LOCATION	NO.	TYPE	DESIGN	CONST. HEIGHT LIN.FT.	CASTINGS ASSEMBLY	PROFILE	ELEVATION NEW GRATE OR RING	C.B. OR M.H. INVERT	REINFORCED CONCRETE PIPE 15"	18"	24"	30"	APRON CLASS	DRAINS TO STRUCTURE NO.	INVERT EL.	† REMARKS	
ⓐ	2+43	1'RT.	1	CB	LP-4-3	2.53	C		879.53	876.50	56				III	2	876.19	SEE NOTE (1)	SHALL BE PAID AS 2 SP-2'S
ⓐ	2+68	186'LT.	1A	CB	TWIN SP-2	2.54	C		879.89	877.55	170				III	2	876.19	SEE NOTE (1)	CONSTRUCT WITH 15" RCP CONNECTION PIPE STUB INCIDENTAL TO STRUCTURE.
ⓐ	2+01	30.5'LT.	2	CB	SP-2	3.75	B		879.69	876.14		75				3	875.43		
ⓐ	1+27	30.5'LT.	3	CB	SP-2	5.25	B		880.43	875.38			142			4	874.69		
	59+30	15'RT.	4	CB	LP-4-10	9.78	C	884.66	884.92	874.64			34			5	874.46		
	59+30	15'LT.	5	CB	LP-4-10	10.01	C	884.66	884.92	874.41			256			5A	872.90	SEE SHEET 29	
			5A	MH	A OR F	13.27	A		886.0±	872.85			204			5B	871.60	APPROX. 80' JACKED-(NO TRASHGUARD) SEE NOTE (2)	
			5B	AP		0.00				871.60				24"					
	51+46.81	15'RT.	6	CB	TWIN LP-4-3	3.36	C	882.59	882.85	878.99	34				III	7	878.69	SHALL BE PAID AS 2 LP-4-5'S SEE NOTE (3)	
	51+46.81	15'LT.	7	CB	LP-4-4	3.71	C	882.59	882.85	878.64	62				III	8	876.00		
	51+34	86'LT.	8	AP		0.00				876.00				15"				OUTLET (NO TRASHGUARD) SEE NOTE (2)	
ⓑ	00+56	15'LT.	12	CB	LP-4-4	4.38	C	889.02	889.28	884.40	34				III	13	883.80	SEE NOTE (1)	
ⓑ	00+56	15'RT.	13	CB	LP-4-5	5.03	C	889.02	889.28	883.75	268				III	14A	879.26	SEE NOTE (1)	
	38+95	48'RT.	14	AP		0.00				879.26	24			15"	III	15	879.26	INLET (INSTALL 15" TRASHGUARD) SEE NOTE (2)	
	39+31	78'RT.	14A	AP		0.00				879.26				15"				OUTLET (NO TRASHGUARD) SEE NOTE (2).	
	38+98.15	15'RT.	15	CB	LP-4-5	4.66	C	884.11	884.37	879.21		34			III	16	878.91		
	38+98.15	15'LT.	16	CB	LP-4-7	6.99	C	884.11	884.37	876.88		84			III	16A	876.00		
	38+82	106'LT.	16A	AP		0.00				876.00				18"				OUTLET (NO TRASHGUARD) SEE NOTE (2).	
	35+90	35'LT.	17	MH	A OR F	12.92	A		885.0±	872.20			200		III	19	872.20		
	37+94	144'LT.	18	AP		0.00				872.20			244	24"		17	872.20	APPROX. 48' JACKED (INSTALL 24" TRASHGUARD) SEE NOTE (2).	
	34+55	192'LT.	19	AP		0.00				872.20				24"				OUTLET (NO TRASHGUARD) SEE NOTE (2)	
ⓒ	00+55	40'LT.	21	SD	G	3.18	D		880.00	876.94	56				III	25	876.63	SEE NOTE (1)	
	32+16.27	105'LT.	22	AP		0.00				872.80				15"					
	32+16.27	13'LT.	23	CB	SP-2	5.97	B	880.54	880.19	874.42	86				III	22	872.80		
	32+16.27	13'RT.	24	CB	SP-2	4.38	B	880.54	880.19	876.01	26				III	23	875.70		
ⓒ	00+55	15'RT.	25	CB	LP-4-4	3.99	C	880.54	881.07	876.58	56				III	24	876.06	SEE NOTE (1)	
	27+10	97'LT.	26	AP		0.00				871.63				74	30"	29	871.24	INLET (INSTALL 30" TRASHGUARD) SEE NOTE (2)	
	27+30	162'RT.	27	AP		0.00				870.22					30"			OUTLET (NO TRASHGUARD) SEE NOTE (2)	
	26+91.78	15'RT.	28	CB	LP-4-6	6.31	C	877.51	877.77	870.97				144		27	870.22		
	26+91.70	15'LT.	29	CB	LP-4-6	6.08	C	877.51	877.77	871.10				34		28	871.01		
ⓓ	00+94	61'LT.	31	CB	SP-2	3.40	B		876.20	872.30	84				III	32	871.50	SEE NOTE (1)	
ⓓ	00+58	13'RT.	32	CB	SP-2	3.30	B		875.25	871.45	65				III	33	870.84	SEE NOTE (1)	
	17+63.33	15'LT.	33	CB	LP-4-3	3.14	C	874.17	874.43	870.79	34				III	34	870.49		
	17+75	40'LT.	33A	AP		0.00				871.12	24			15"	III	33	870.84	INLET (INSTALL 15" TRASHGUARD) SEE NOTE (2)	
	17+63.33	15'RT.	34	CB	LP-4-3	3.49	C	874.17	874.43	870.44		24			III	34A	870.16		
	17+63.33	47'RT.	34A	AP		0.00				870.16				18"	III			OUTLET (NO TRASHGUARD) SEE NOTE (2)	
	03+87	105'LT.	35	AP		0.00				872.00				15"				OUTLET (NO TRASHGUARD) SEE NOTE (2)	
	03+71.43	24.5'LT.	36	CB	LP-4-8	8.09	C	888.13	888.39	879.80	74					35	872.00		
	03+71.43	21.5'RT.	37	CB	LP-4-3	3.18	C	888.13	888.39	884.71	49				III	36	884.26		
	06+50	15' LT.	38	CB	LP-4-4	3.50	C	891.27	891.53	887.53	34				III	39	887.23		
	06+50	15' RT.	39	CB	LP-4-4	3.85	C	891.27	891.53	887.18	134				III	40	872.00		
	06+50	162'RT.	40	AP						872.00				15"				OUTLET (NO TRASHGUARD) SEE NOTE (2)	
	15+50	15' LT.	41	CB	LP-4-4	3.50	C	882.96	883.22	879.18	34				III	42	878.88		
	15+50	15' RT.	42	CB	LP-4-4	3.89	C	882.96	883.22	878.83	110				III	43	870.20		
	16+60	96' RT.	43	AP						870.20				15"				OUTLET (NO TRASHGUARD) SEE NOTE (2)	
*	42+60	15' RT	12A	CB	LP-4-4	3.10	C	888.15	888.41	884.81	64						884.45		

EXISTING DRAINAGE CHART

	2+48	102'LT	0	AP				875.65										SALVAGE 24"APRON, EXTEND 24" RCP 48' AND SEE NOTE (2)	

TOTALS CB DESIGN:

NOTE: TWIN LP-4-5 STRUCTURE INCLUDE IN TOTALS.

LP-4-4-7 EA	MH DESIGN A OR F	- 2 EA
LP-4-5-8 EA	CB DESIGN SP-2	- 8 EA
LP-4-6-1 EA	SD DESIGN G	- 1 EA
LP-4-7-1 EA		
LP-4-8-2 EA		
LP-4-9-1 EA		
LP-4-11-2 EA		

NOTES: ⓐ SWIMMING BEACH PARKING LOT.
ⓑ LARGE GROUP PICNIC ENTRANCE.
ⓒ NATURE AREA PARKING LOT.
ⓓ DAY CAMP PARKING LOT.

TRASH GUARDS FOR:

24" RCP - 3 EA
30" RCP - 2 EA

APRONS:

15" RCP - 5 EA
18" RCP - 2 EA
24" RCP - 3 EA
30" RCP - 2 EA

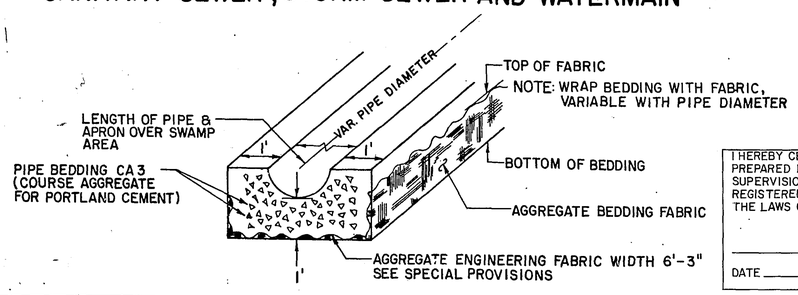
MH DESIGN A OR F — MHD STD. PL. NO. 4000G OR 4005I
CB DESIGN SP-2 — MHD STD. PL. NO.
CB DESIGN LP4-DEPTH — MHD STD. PL. NO. 4021C
SD DESIGN G (2.0" OPENING) — MHD STD. PL. NO. 4006K

NOTES:
(1) SEE PARKING LOT STATIONING.
(2) PLACE RIP RAP AT APRON END.
(3) TO BE CONSTRUCTED WITHOUT MIDWALL IN MASONRY.

CASTING

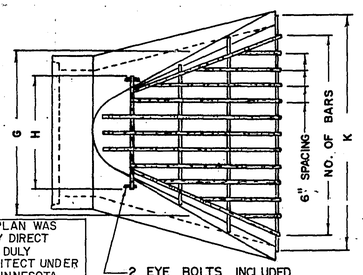
A= RING CASTING MN/DOT NO. 700-7, COVER CASTING NO. 712 (INCLUDE WITH STRUCTURE, NOT SEPERATE PAY ITEM).
B= NEENAH INLET FRAME, GRATE & CURB BOX NO. R-3067L OR EQUAL (INCLUDE WITH STRUCTURE, NOT SEPERATE PAY ITEM).
C= RING CASTING MN/DOT NO. 790-2, COVER CASTING NO. 712 (INCLUDE WITH STRUCTURE, NOT SEPERATE PAY ITEM).
D= RING CASTING MN/DOT NO. 700-7, COVER CASTING NO. 731 (INCLUDE WITH STRUCTURE, NOT SEPERATE PAY ITEM).

SPECIAL AGGREGATE BEDDING DETAIL
SANITARY SEWER, STORM SEWER AND WATERMAIN

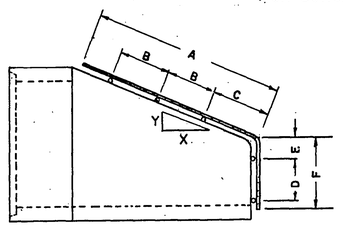


I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE _____ REG.NO. _____



3/4" BARS FOR TRANSVERSE AND EDGE REINFORCEMENT



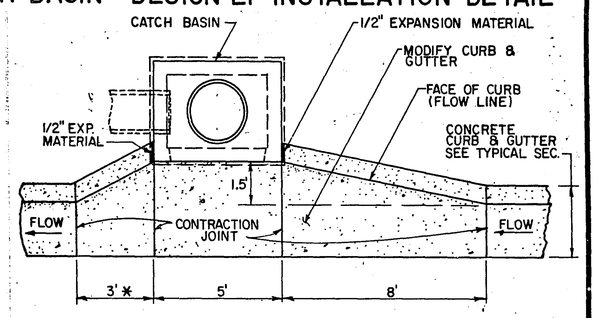
1/2" BARS FOR LONGITUDINAL INTERIOR BARS, WELD EACH INTERSECTION.

CONTRACTOR SHALL FURNISH SUITABLE LOCKING DEVICE APPROVED BY ENGINEER.

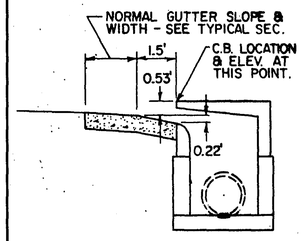
CURB OPENING CATCH BASIN — DESIGN LP INSTALLATION DETAIL

NOTES:

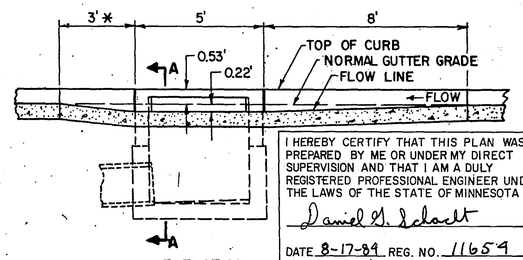
1. * DIMENSION SHALL BE 8' WHEN STRUCTURE INSTALLED AT LOW POINT IN GRADE
2. CATCH BASIN - DESIGN LP - SEE MN/DOT STD. PL. NO. 4021C.
3. TOP OF CATCH BASIN SHALL BE INSTALLED AT SAME SLOPE AS BLVD. GRADES AND TOP OF CURB GRADE EACH SIDE OF STRUCTURE.
4. ELEVATION OF STRUCTURE IS COMPUTED AT LOCATION SHOWN IN SEC. A-A AT ℄ OF C.B. OPENING.



PLAN VIEW



SECTION A-A



ELEVATION (AT FLOW LINE)

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

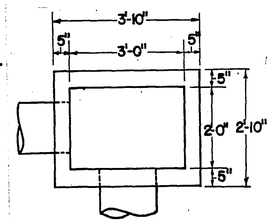
Daniel D. Schadt

DATE 8-17-84 REG. NO. 11654

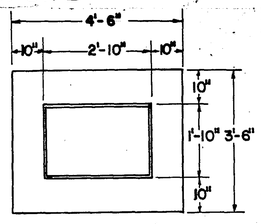
CATCH BASIN DETAIL DESIGN NO. SP.2

NOTES

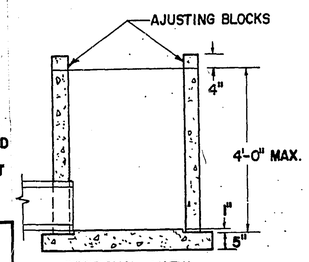
1. CASTING ASSEMBLY - SEE DETAIL THIS SHEET.
2. PIPE CUT-OUTS TO BE LOCATED WHERE REQUIRED.
3. ALTERNATE CAST-IN-PLACE BASE SLAB CAN BE USED.
4. INSTALL AS PER MN./DOT STD. PLATE NO. 7111 & DETAIL THIS SHEET.
5. REINFORCING: SINGLE LINE STEEL WIRE FABRIC.
   WALL = W 3.5 x W 3.0 HAVING AN AREA OF NOT LESS THAN .21 SQ. IN. PER FOOT OF HEIGHT.
   BASE = W 4.0 W 4.0 HAVING AN AREA OF NOT LESS THAN .16 SQ. IN. PER FOOT OF HEIGHT.
6. ALTERNATE CONSTRUCTION - THE CATCH BASIN MAY BE CONSTRUCTED OF BLOCK OR BRICK CONFORMING TO THE REQUIREMENTS OF MN./DOT SPEC. 2506 AND AS DIRECTED BY THE ENGINEER.



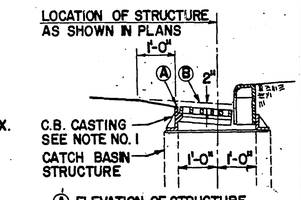
CATCH BASIN PLAN



BASE SLAB PLAN



SECTIONAL VIEW CATCH BASIN & BASE SLAB



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

INSTALLATION DETAIL

TRASH GUARD (GALVANIZED)
(FOR CONCRETE APRON)

SIZE	NO. OF BARS	SLOPE	A	B	C	D	E	F	G	H	K
12"	5	3 to 1	24	10	10	5	2	8	24		30
15"	6	"	24	10	10	6	2	10	26		34
18"	7	"	24	10	10	6	3	12	28		40
21"	8	"	36	16	16	7	3	12	34		50
24"	9	"	44	20	20	10	4	16	36		52
27"	10	"	50	23	23	10	4	16	38		58
30"	11	"	56	26	26	12	4	18	42		64
36"	13	"	64	30	30	12	4	18	48		76
42"	15	"	68	32	32	16	8	26	60		88
48"	16	"	76	36	36	14	10	28	62		92
54"	17	24 to 1	76	36	36	16	12	32	68		96

DRAINAGE CHART & DETAILS

PROJECT NO. SG82115-1

SHEET NO. 34 OF 62 SHEETS

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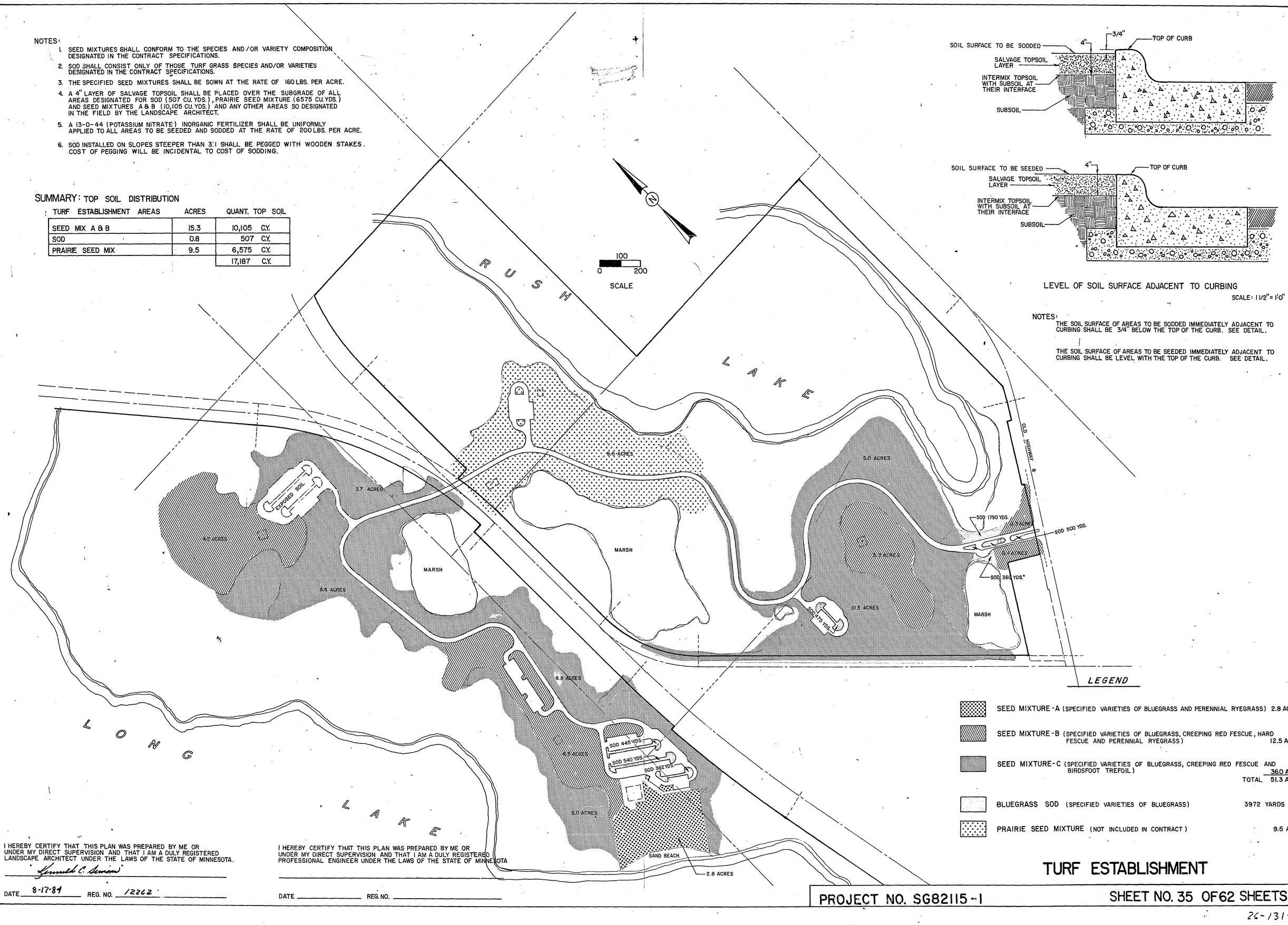
NOTES:

1. SEED MIXTURES SHALL CONFORM TO THE SPECIES AND/OR VARIETY COMPOSITION DESIGNATED IN THE CONTRACT SPECIFICATIONS.
2. SOD SHALL CONSIST ONLY OF THOSE TURF GRASS SPECIES AND/OR VARIETIES DESIGNATED IN THE CONTRACT SPECIFICATIONS.
3. THE SPECIFIED SEED MIXTURES SHALL BE SOWN AT THE RATE OF 160 LBS. PER ACRE.
4. A 4" LAYER OF SALVAGE TOPSOIL SHALL BE PLACED OVER THE SUBGRADE OF ALL AREAS DESIGNATED FOR SOD (507 CU. YDS.), PRAIRIE SEED MIXTURE (6575 CU.YDS.) AND SEED MIXTURES A & B (10,105 CU.YDS.) AND ANY OTHER AREAS SO DESIGNATED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
5. A 13-0-44 (POTASSIUM NITRATE) INORGANIC FERTILIZER SHALL BE UNIFORMLY APPLIED TO ALL AREAS TO BE SEEDED AND SODDED AT THE RATE OF 200 LBS. PER ACRE.
6. SOD INSTALLED ON SLOPES STEEPER THAN 3:1 SHALL BE PEGGED WITH WOODEN STAKES. COST OF PEGGING WILL BE INCIDENTAL TO COST OF SODDING.

SUMMARY: TOP SOIL DISTRIBUTION

TURF ESTABLISHMENT AREAS	ACRES	QUANT. TOP SOIL
SEED MIX A & B	15.3	10,105 C.Y.
SOD	0.8	507 C.Y.
PRAIRIE SEED MIX	9.5	6,575 C.Y.
		17,187 C.Y.



LEVEL OF SOIL SURFACE ADJACENT TO CURBING

SCALE: 1 1/2" = 1'-0"

NOTES:

THE SOIL SURFACE OF AREAS TO BE SODDED IMMEDIATELY ADJACENT TO CURBING SHALL BE 3/4" BELOW THE TOP OF THE CURB. SEE DETAIL.

THE SOIL SURFACE OF AREAS TO BE SEEDED IMMEDIATELY ADJACENT TO CURBING SHALL BE LEVEL WITH THE TOP OF THE CURB. SEE DETAIL.

LEGEND

	SEED MIXTURE-A (SPECIFIED VARIETIES OF BLUEGRASS AND PERENNIAL RYEGRASS)	2.8 AC.
	SEED MIXTURE-B (SPECIFIED VARIETIES OF BLUEGRASS, CREEPING RED FESCUE, HARD FESCUE AND PERENNIAL RYEGRASS)	12.5 AC.
	SEED MIXTURE-C (SPECIFIED VARIETIES OF BLUEGRASS, CREEPING RED FESCUE AND BIRDSFOOT TREFOIL)	36.0 AC.
	TOTAL	51.3 AC.
	BLUEGRASS SOD (SPECIFIED VARIETIES OF BLUEGRASS)	3972 YARDS
	PRAIRIE SEED MIXTURE (NOT INCLUDED IN CONTRACT)	9.5 AC.

TURF ESTABLISHMENT

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kenneth C. Simons

DATE 8-17-81 REG. NO. 12262

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

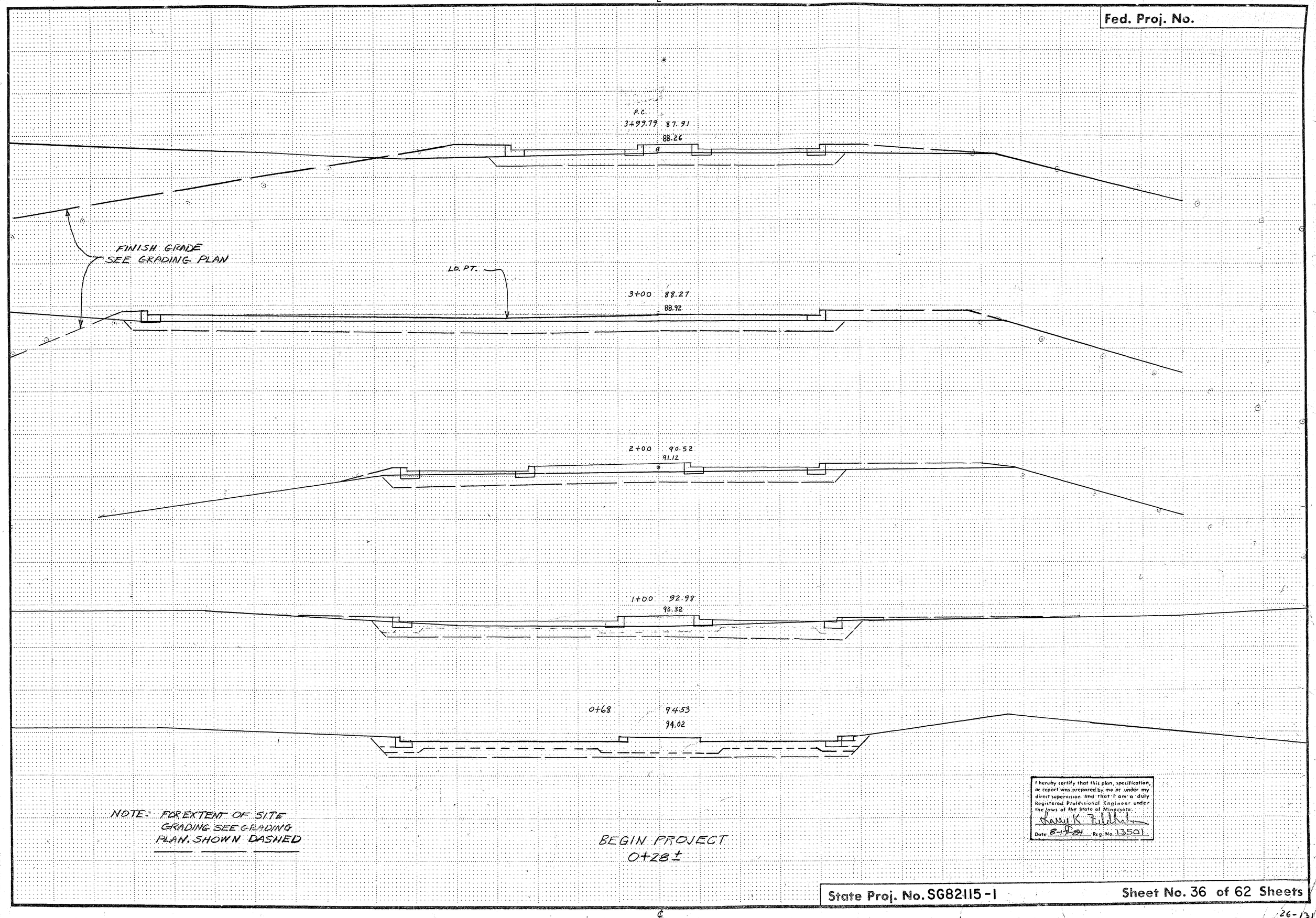
DATE _____ REG. NO. _____

PROJECT NO. SG82115-1

SHEET NO. 35 OF 62 SHEETS

26-131

Fed. Proj. No.



NOTE: FOR EXTENT OF SITE GRADING SEE GRADING PLAN. SHOWN DASHED

BEGIN PROJECT
0+28 ±

I hereby certify that this plan, specification, or report 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.

Harry K Fiskdahl

Date 8-19-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 36 of 62 Sheets

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COPY EQUIPMENT FORM #2

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Fed. Proj. No.

7+00 92.41
92.34

6+00 90.22
90.38

4+50 89.71
89.67

SEE GRADING PLAN

5+00 88.76
89.14

4+50 88.40
88.70

I hereby certify that this plan, specification, or report 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.
Larry K Fullerton
Date 8-18-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 37 of 62 Sheets

℄

26-131

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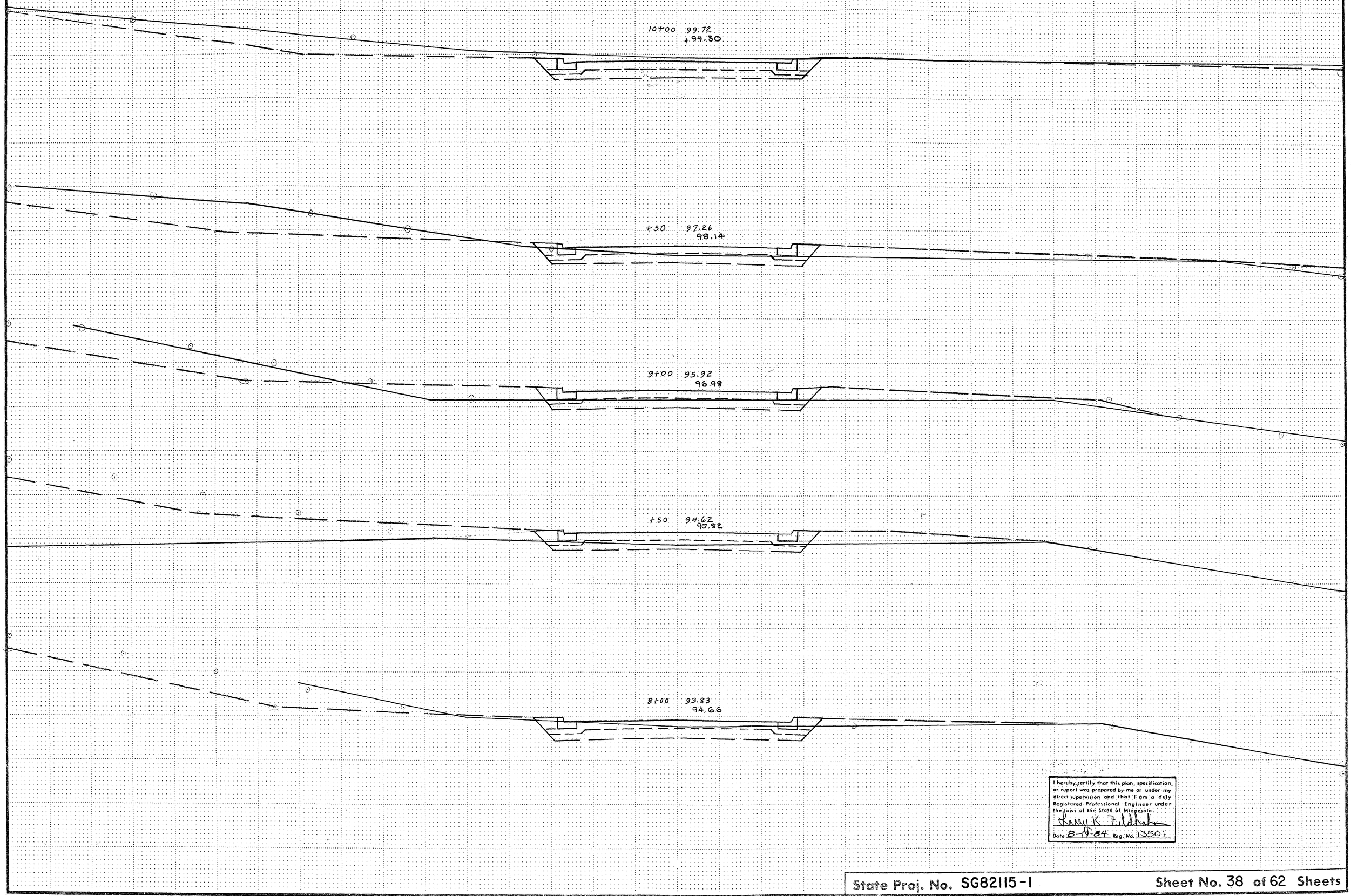

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Harry K. Fildahl

Date 8-19-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 38 of 62 Sheets

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26-131

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Fed. Proj. No.

13+00 96.61
96.56

1+50 99.99
99.16

12+00 00.81
900.91

1+50 01.45
901.69

11+00 01.54
901.55

10+50 00.99
900.46

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Date 8-9-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 39 of 62 Sheets

℄

26-131

Fed. Proj. No.

15+50 85.96
82.96

14+86.23 86.93
86.43

+50 87.60
88.40

14+00 90.71
91.12

13+50 93.66
93.54

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Sheet No. 40 of 62 Sheets

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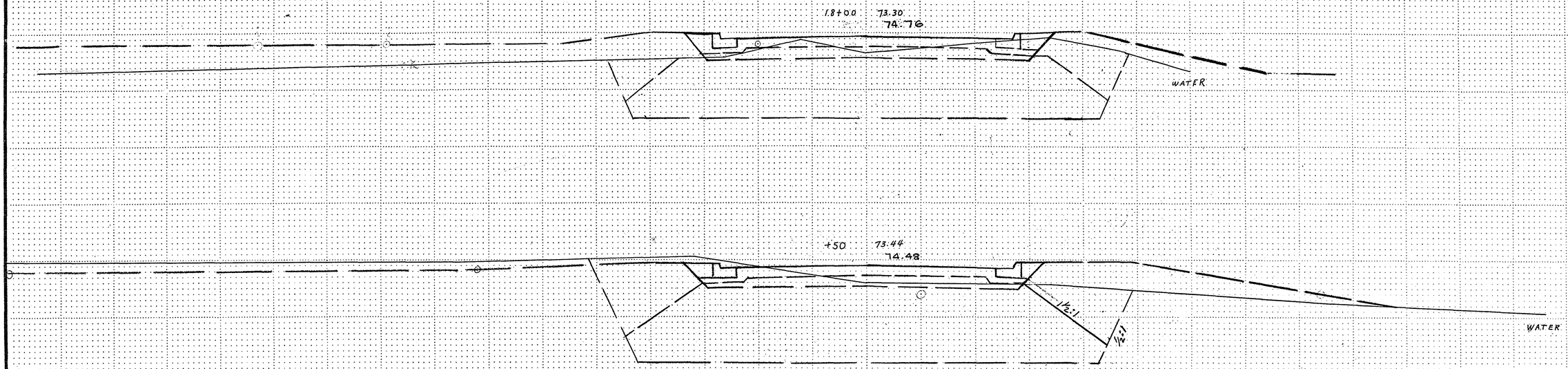
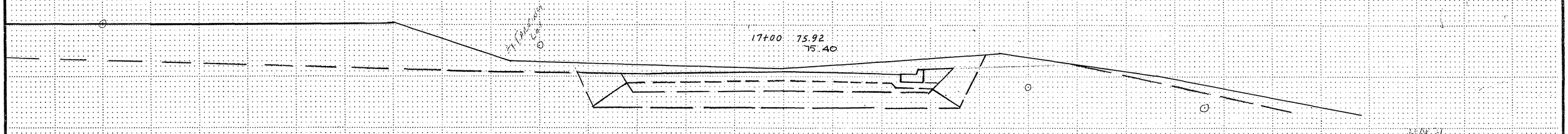
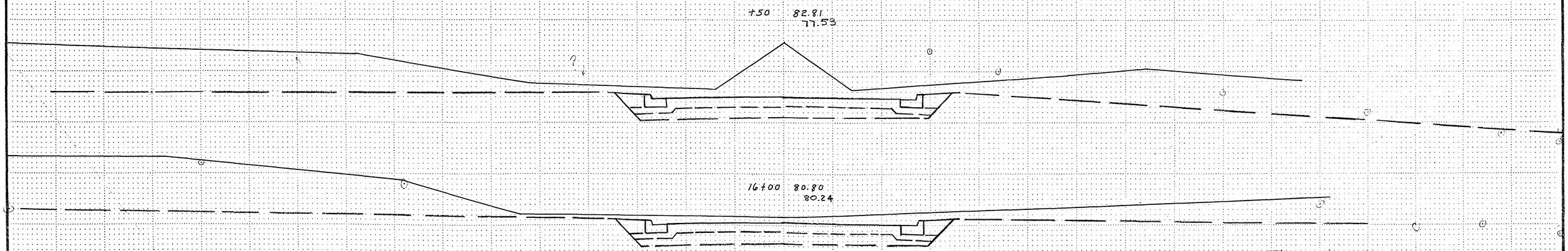


PROPOSED ENT.



BEGIN MUCK EXC. +50
(SEE PLAN FOR GRADING)



I hereby certify that this plan, specification, or report 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 8-19-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 41 of 62 Sheets

26-131

COPY (DOCUMENT) FORM #1

Fed. Proj. No.

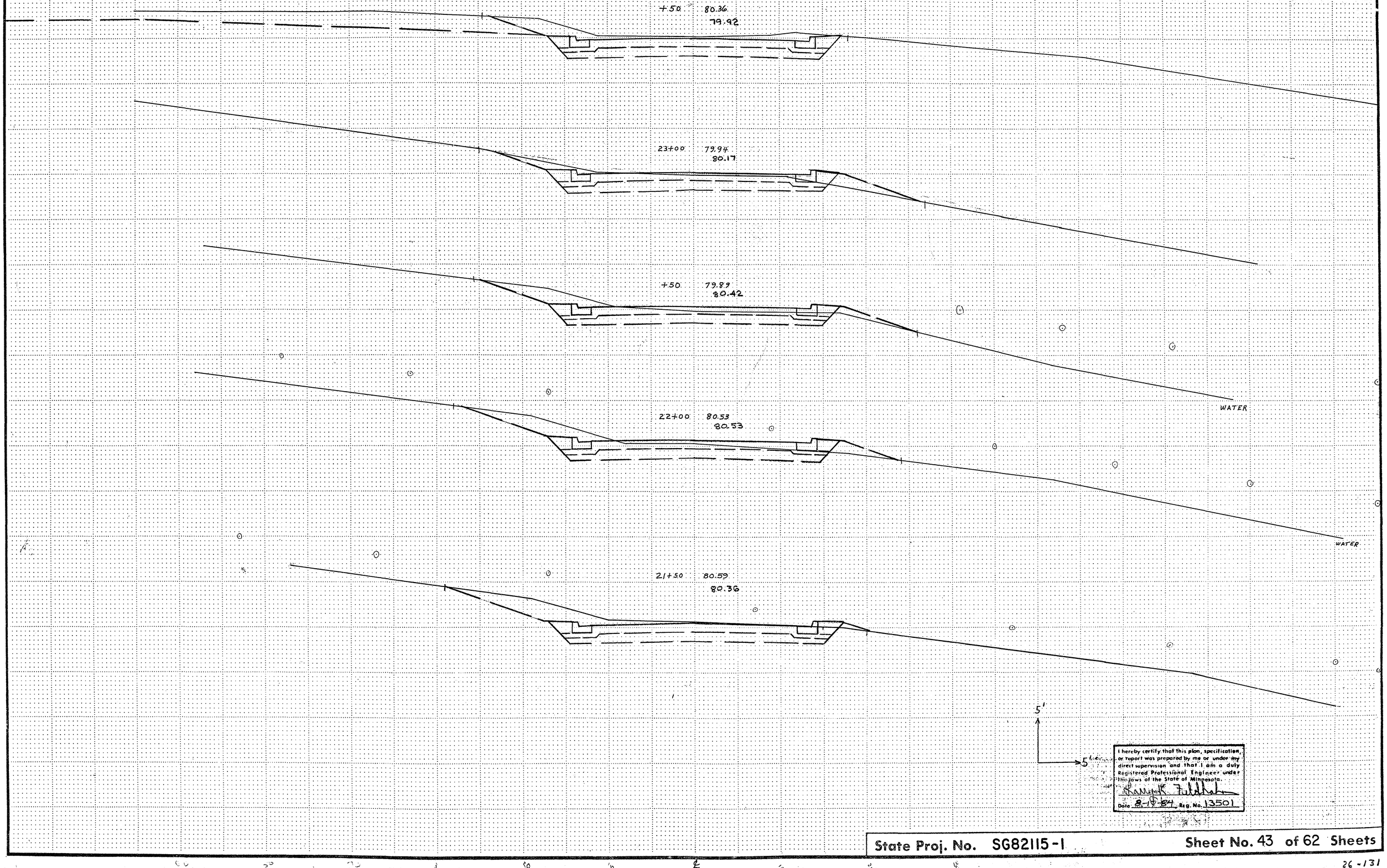
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Larry K. Fiddler

Date 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 42 of 62 Sheets

Fed. Proj. No.



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Date 8-10-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 43 of 62 Sheets

26-131

COPY EQUIPMENT FORM #1

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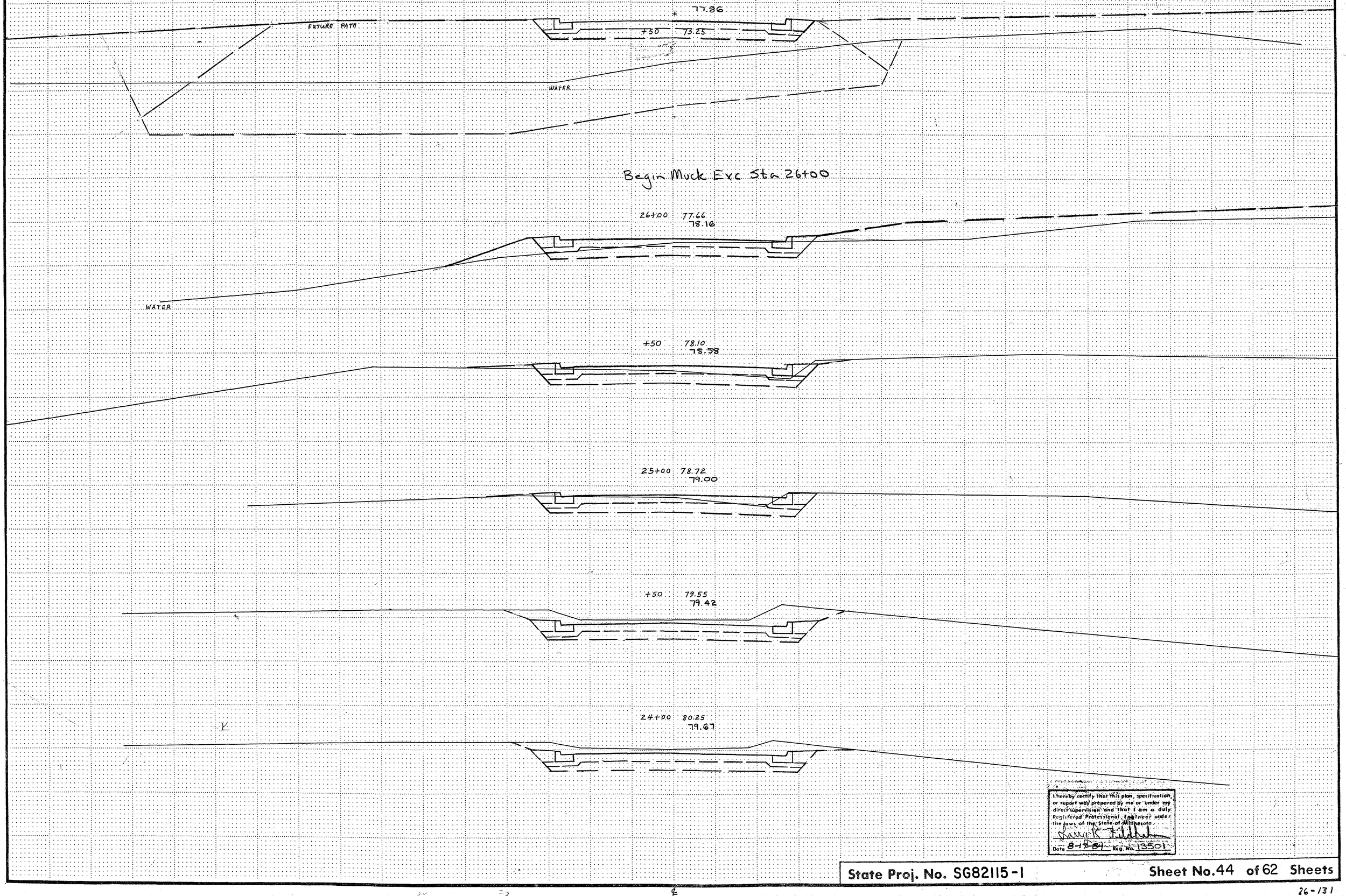

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Date 8-12-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 44 of 62 Sheets

26-131

COPY EQUIPMENT FORM #1

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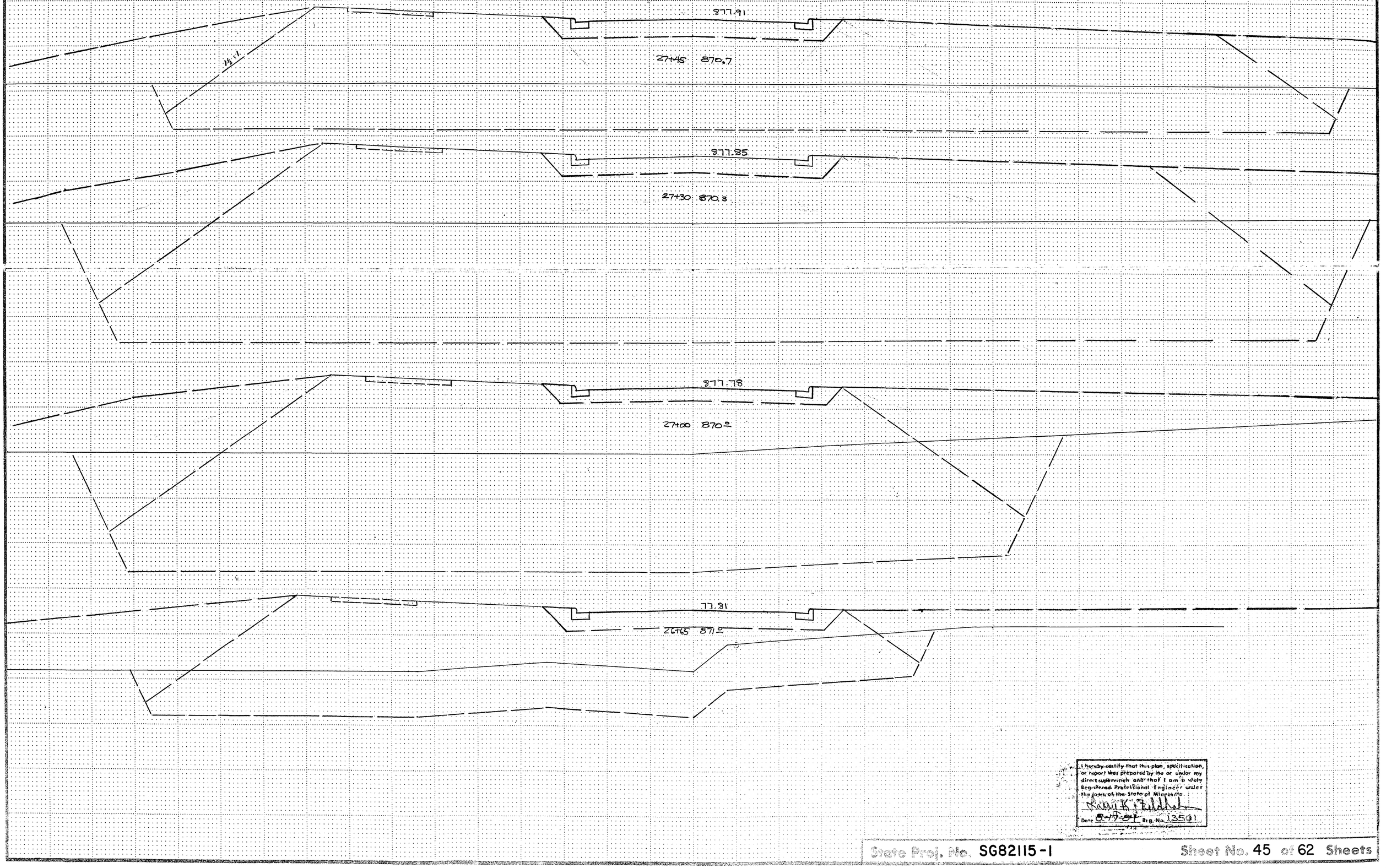

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.

Date 8-17-82 Reg. No. 13501

State Proj. No. SG82115-1

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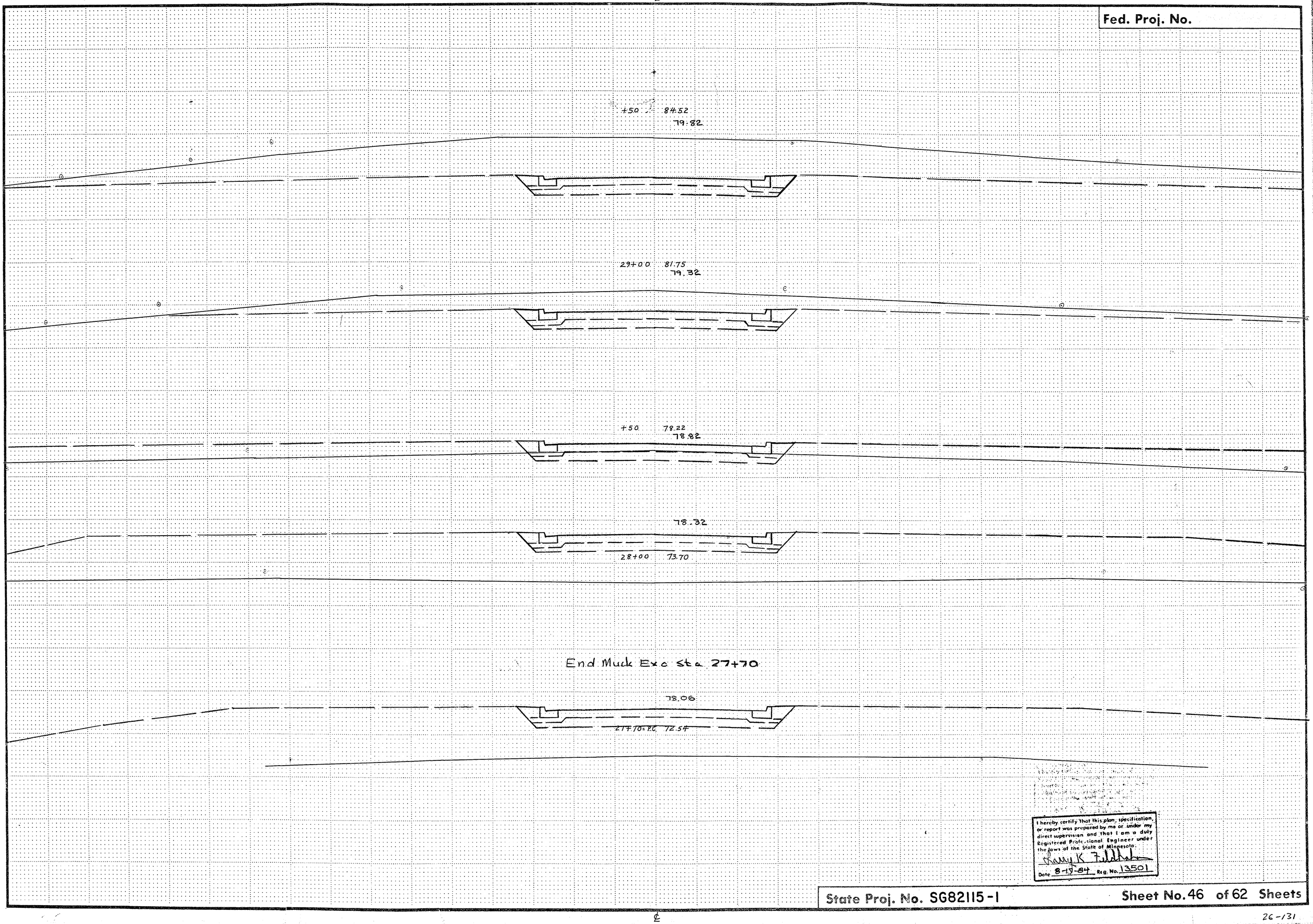
26-131

Fed. Proj. No.

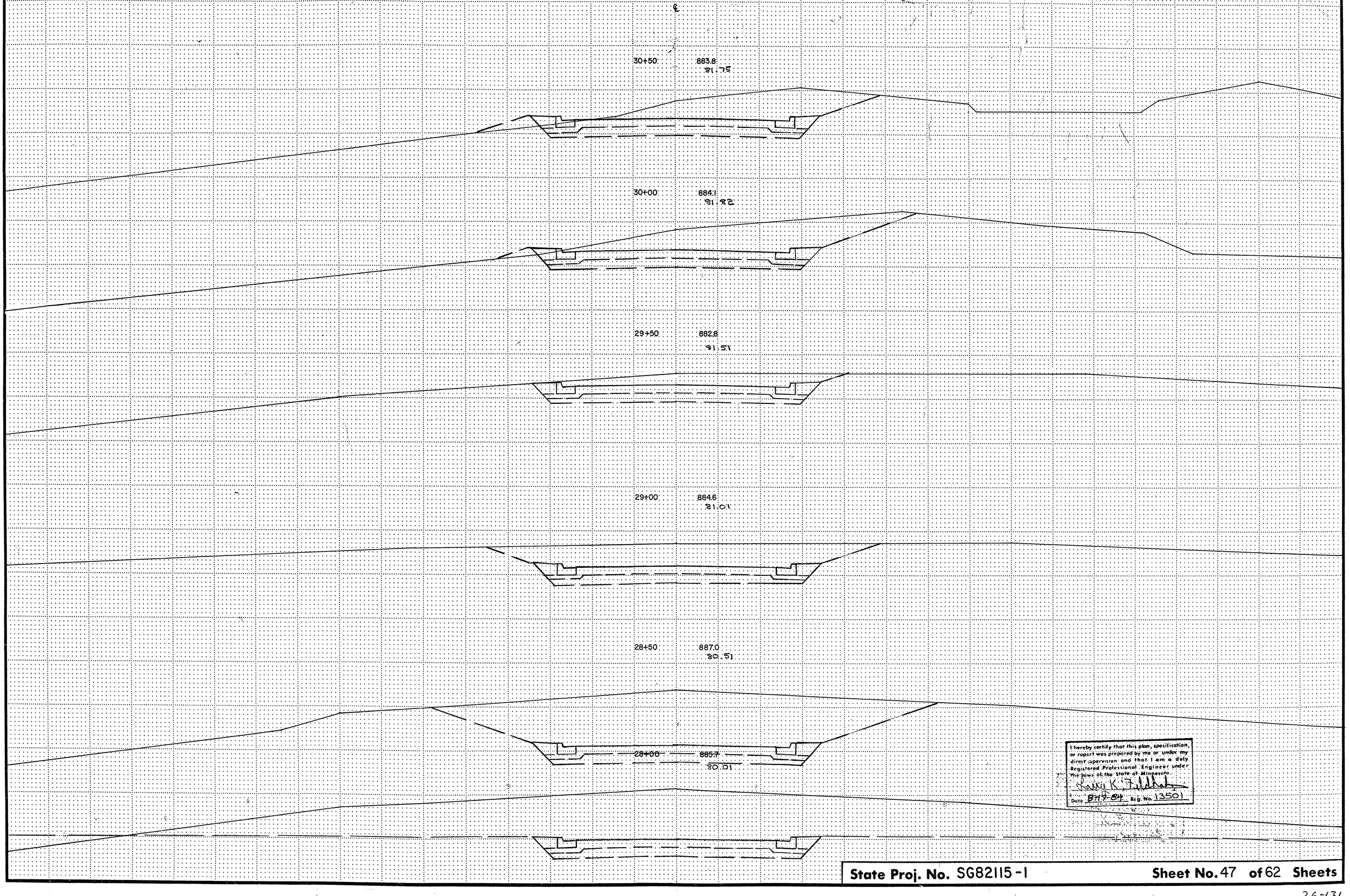


I hereby certify That this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Randy K Fiddelke
Date 8-15-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 46 of 62 Sheets

COPY EQUIPMENT FORM #1

Fed. Proj. No.



I hereby certify that this plan, specification, or report 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.

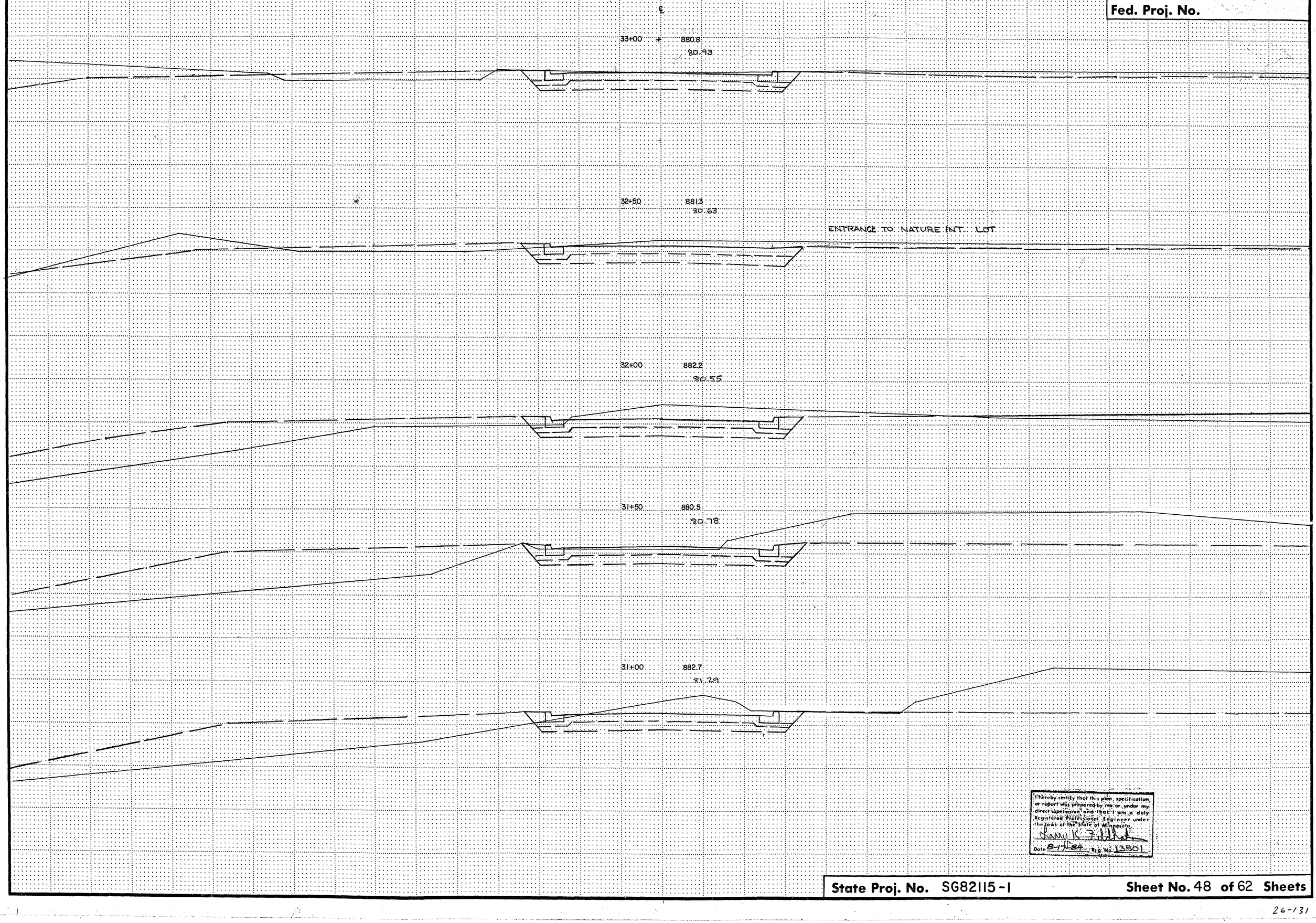
Harry K. Feldhaber

Date 8-19-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 47 of 62 Sheets

Copy Equipment Form #1

Fed. Proj. No.



I hereby certify that this plan, specification, or report 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 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 48 of 62 Sheets

Copy Equipment Form #1

26-131

Fed. Proj. No.

℄

35+50 8824
83.56

35+00 880.8
82.79

34+50 879.8
82.31

34+00 881.7
81.85

33+50 882.3
81.39

I hereby certify that this plan, specification, or report 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 8-10-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 49 of 62 Sheets

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Fed. Proj. No.

℄

885.42

38+00 879.5

86.75

37+50 881.8

WARP GRADE TO MATCH TRACKS

22 x 11

37+00 887.0

87.53

86.55

36+50 885.2

84.96

36+00 883.0

I hereby certify that this plan, specification, or report 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.

Larry K Fiddick

Date 8-15-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 50 of 62 Sheets

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Co. Equivalent Form 21

Fed. Proj. No.

41+00 886.32 879.2

885.79

40+50 882.1

885.23

40+00 880.1

884.67

39+50 879.8

884.38

39+00 879.6

884.63

38+50 879.2

I hereby certify that this plan, specification, or report 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.

Harry K. Tuhkanen

Date 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 51 of 62 Sheets

COPY EQUIPMENT FORM #1

Fed. Proj. No.

℄

89.15

43+50 884.4

43+00 886.7

88.59

42+50 889.2

88.03

42+00 888.3

87.47

DRIVEWAY TO LAMME CREEK PICNIC AREA

41+50 887.3

86.91

I hereby certify that this plan, specification, or report 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.

Larry K. Fiddler

Date 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 52 of 62 Sheets

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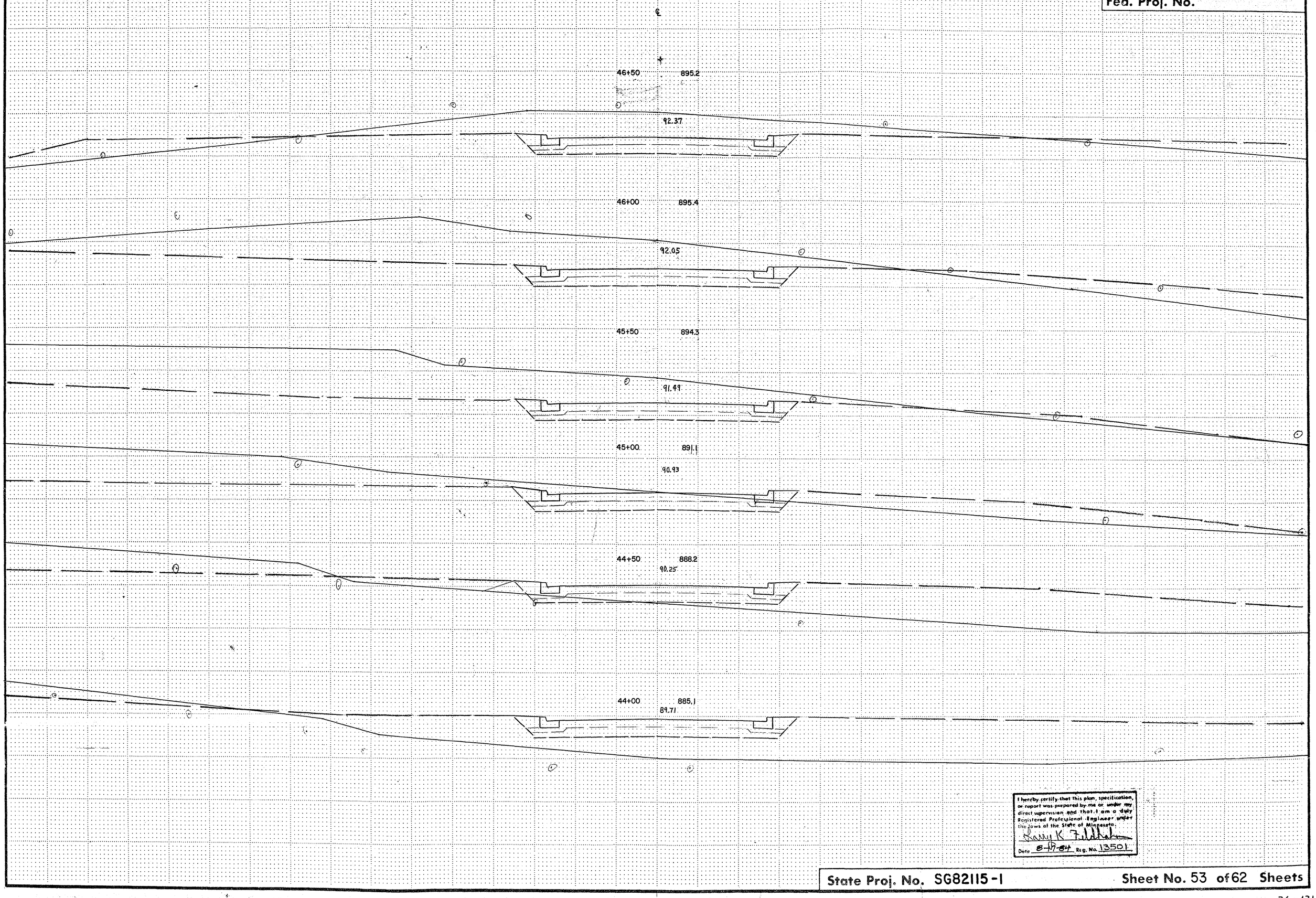
Fed. Proj. No.



I hereby certify that this plan, specification, or report 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.

Randy K Fildahl

Date 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 53 of 62 Sheets

COPY EQUIVALENT FILM #1

Fed. Proj. No.

48+50 888.6
89.03

48+00 888.5
90.41

47+50 890.3
91.55

47+00 893.2
92.20

I hereby certify that this plan, specification, or report 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 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 54 of 62 Sheets

COPY EQUIPMENT FORM #1

Fed. Proj. No.

51+00 881.2

83.07

50+50 883.5

83.75

378.1

83

50+00 885.2

84.89

49+50 886.8

86.27

49+00 887.5

87.65

I hereby certify that this plan, specification, or report 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.

Larry K. Fiddick

Date 8-7-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 55 of 62 Sheets

26-131

COPY EQUIPMENT FORM #1

Fed. Proj. No.

53+50 884.1

84.63

53+00 886.4

84.13

52+50 887.9

83.63

52+00 886.1

83.33

51+50 883.4

82.87

I hereby certify that this plan, specification, or report 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.

Larry K Fiddler

Date 8-9-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 56 of 62 Sheets

24-131

COPY EQUIPMENT FORM #1

Fed. Proj. No.

56+00 890.7

87.13

55+50 888.2

86.63

55+00 884.6

86.13

54+50 883.3

86.63

CURB OF S. RADIUS OF N. ENTRANCE TO PICNIC LOT (CURB HEIGHT UNKNOWN)

54+00 882.3

85.13

CURB OF N. RADIUS OF N. ENTRANCE TO PICNIC LOT

I hereby certify, that this plan, specification, or report 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.

Kathy K. Tillotson

Date 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 57 of 62 Sheets

26-131

COPY EQUIPMENT FORM #1

Fed. Proj. No.

58+50 887.9

86.81

58+00 889.4

87.25

57+50 890.1

87.57

ENTRANCE TO PICNIC PARKING LOT

57+00 891.9

87.66

56+50 891.3

87.51

I hereby certify that this plan, specification, or report 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.

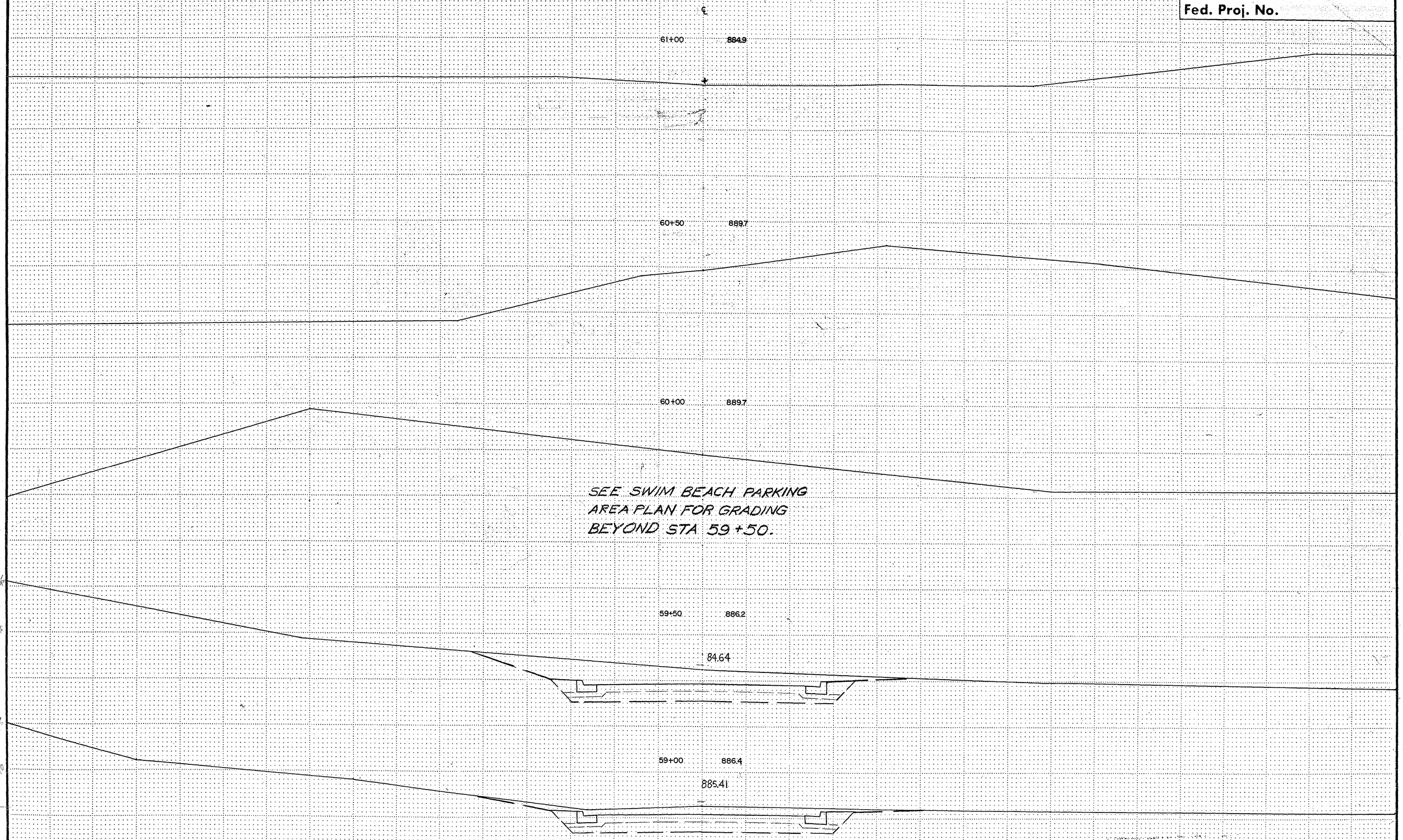
Date 8-7-84 Reg. No. 13501

State Proj. No. SG82115-1

Sheet No. 58 of 62 Sheets

COPY EQUIPMENT FORM #1

Fed. Proj. No.



I hereby certify that this plan, specification, or report 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 5-18-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 59 of 62 Sheets

COPY EQUIPMENT FORM #3

Fed. Proj. No.

ORIGINAL ℄

63+50 882.1

BUS PARKING

63+00 886.4

BUS PARKING

62+50 881.3

BEACH PARKING LOT

62+05 884.1

61+50 884.6

TOP P.T.

I hereby certify that this plan, specification, or report 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.

Gary K Fullerton

Date 8-10-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 60 of 62 Sheets

24-131

COPY EQUIPMENT FORM #1

Fed. Proj. No.

℄

66+00 879.9

OUT 100'
ELEV. 81.4

65+50 881.0

OUT 92' &
100' ELEV
81.9

FINAL
CURVE CHANGE

65+00 881.4

OUT 100'
ELEV. 81.5

64+50 882.4

OUT 100'
ELEV. 82.5

64+00 882.4

I hereby certify that this plan, specification, or report 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.

Harry K. Fieldhaus

Date 8-17-84 Reg. No. 13501

State Proj. No. SG82115-1 Sheet No. 61 of 62 Sheets

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26-131

COPY EQUIPMENT FORM #1

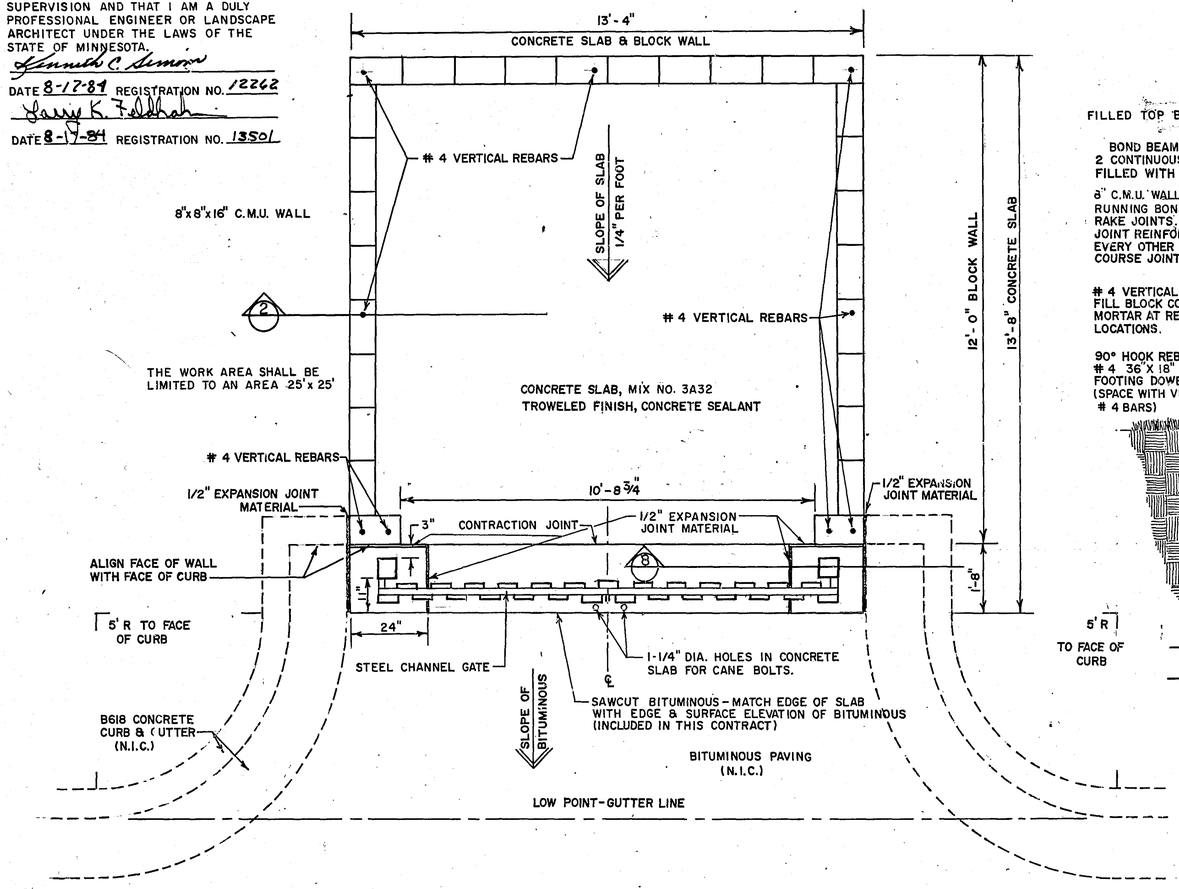
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kenneth C. Simon

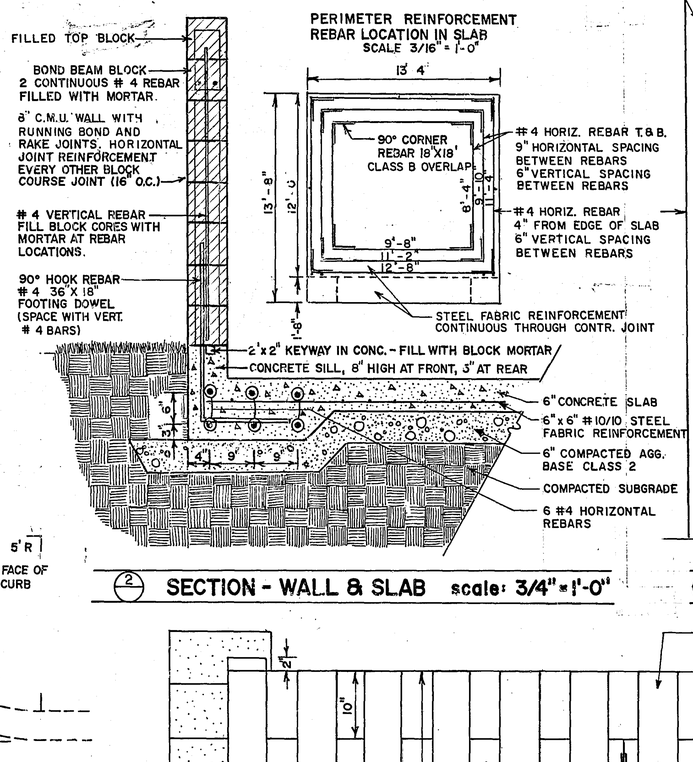
DATE 8-17-84 REGISTRATION NO. 12262

Larry K. Feldhan

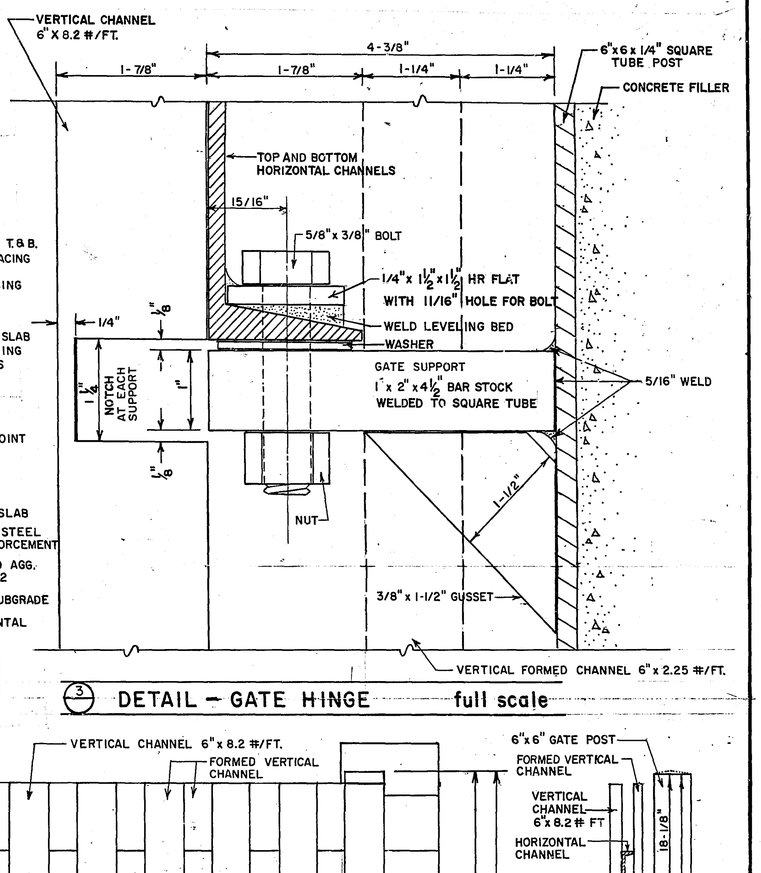
DATE 8-17-84 REGISTRATION NO. 13501



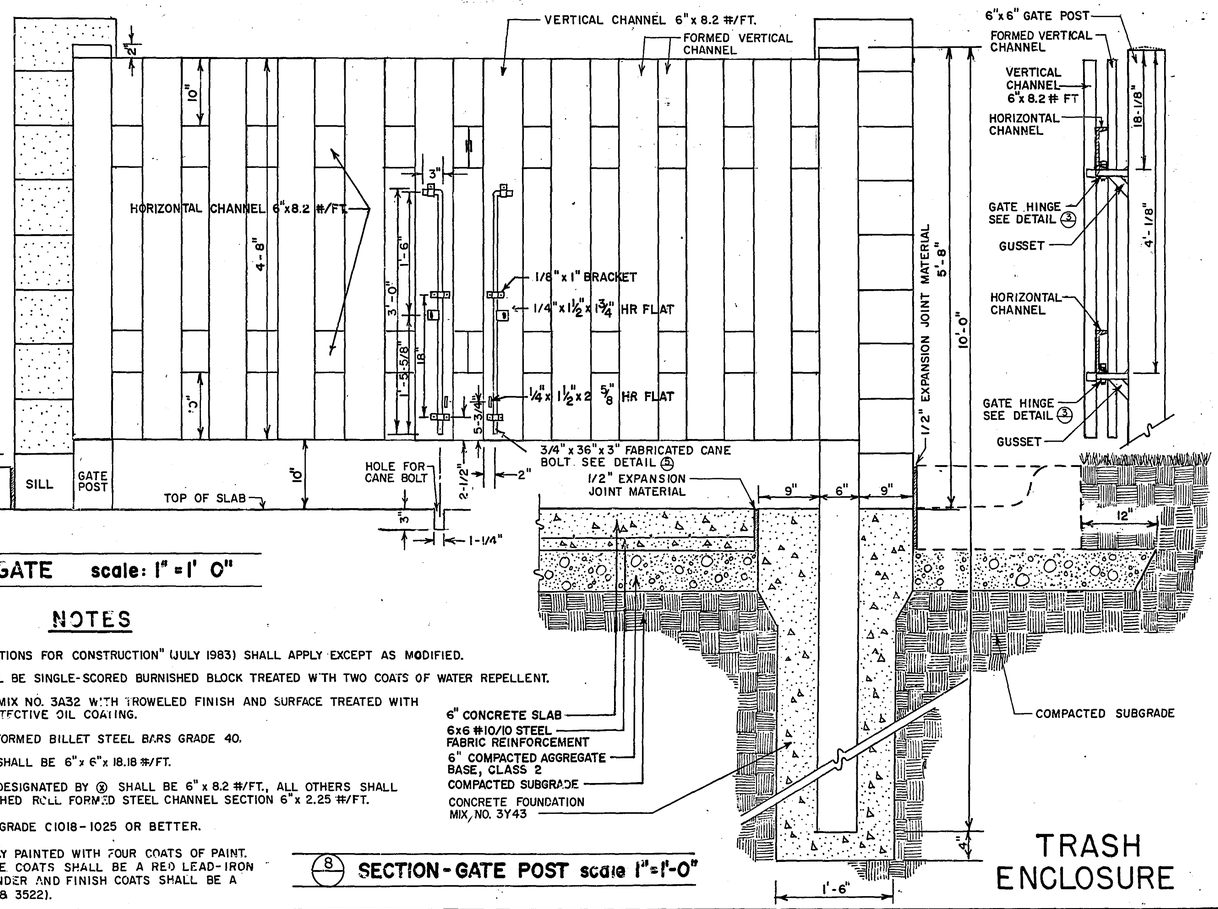
1 PLAN - TRASH DUMPSTER ENCLOSURE (GATE, WALL & SLAB) scale: 1/2" = 1'-0"



2 SECTION - WALL & SLAB scale: 3/4" = 1'-0"

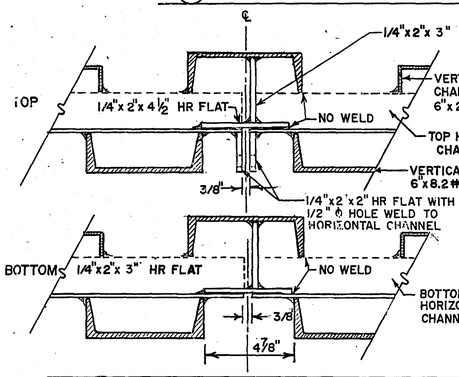


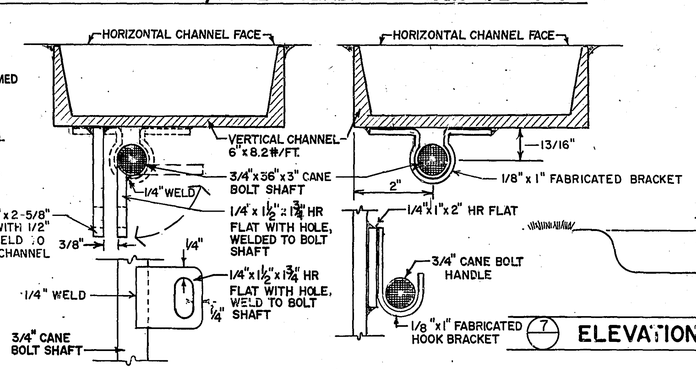
3 DETAIL - GATE HINGE full scale



7 ELEVATION - GATE scale: 1" = 1' 0"

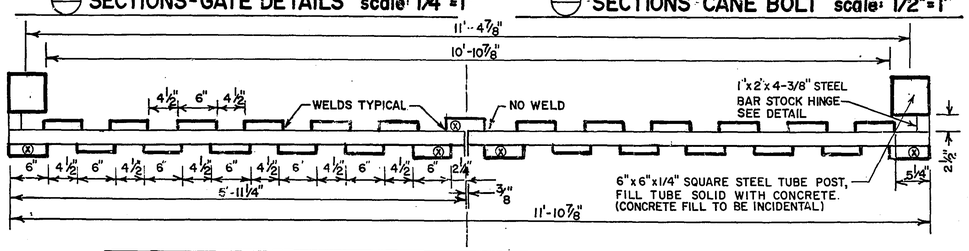
8 SECTION - GATE POST scale 1" = 1'-0"





4 SECTIONS - GATE DETAILS scale: 1/4" = 1"

5 SECTIONS - CANE BOLT scale: 1/2" = 1"



6 PLAN - GATE DETAIL scale: 1" = 1'-0"

NOTES

- MN/DOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION" (JULY 1983) SHALL APPLY EXCEPT AS MODIFIED.
- CONCRETE BLOCK WALL SHALL BE SINGLE-SCORED BURNISHED BLOCK TREATED WITH TWO COATS OF WATER REPELLENT.
- CONCRETE SLAB SHALL BE MIX NO. 3A32 WITH TROWELED FINISH AND SURFACE TREATED WITH TWO APPLICATIONS OF A PROTECTIVE OIL COATING.
- REBARS SHALL BE NO. 4 DEFORMED BILLET STEEL BARS GRADE 40.
- STEEL SQUARE TUBE POSTS SHALL BE 6" x 6" x 18.18 #/FT.
- VERTICAL STEEL CHANNELS DESIGNATED BY ⊗ SHALL BE 6" x 8.2 #/FT., ALL OTHERS SHALL BE DEEP LEG TRACK UNPUNCHED ROLL FORMED STEEL CHANNEL SECTION 6" x 2.25 #/FT.
- ALL STEEL SHALL BE AISI GRADE C1018-1025 OR BETTER.
- METAL GATE SHALL BE SPRAY PAINTED WITH FOUR COATS OF PAINT. THE PRIME AND INTEMEDIATE COATS SHALL BE A RED LEAD-IRON OXIDE PAINT (3506). THE UNDER AND FINISH COATS SHALL BE A BROWN BRIDGE PAINT (3521 & 3522).
- ALL INTERFACES (JOINTS, EDGES, FACES) BETWEEN STEEL MEMBERS (CHANNELS, BAR STOCK) UNLESS OTHERWISE INDICATED SHALL BE WELDED WITH A 3/16" FILLET WELD.

TRASH ENCLOSURE

PROJECT NO. SG82115-1

SHEET NO. 62 OF 62 SHEETS

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