PLANS SYMBOLS

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

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

UTILITIES SYMBOLS

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

CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE

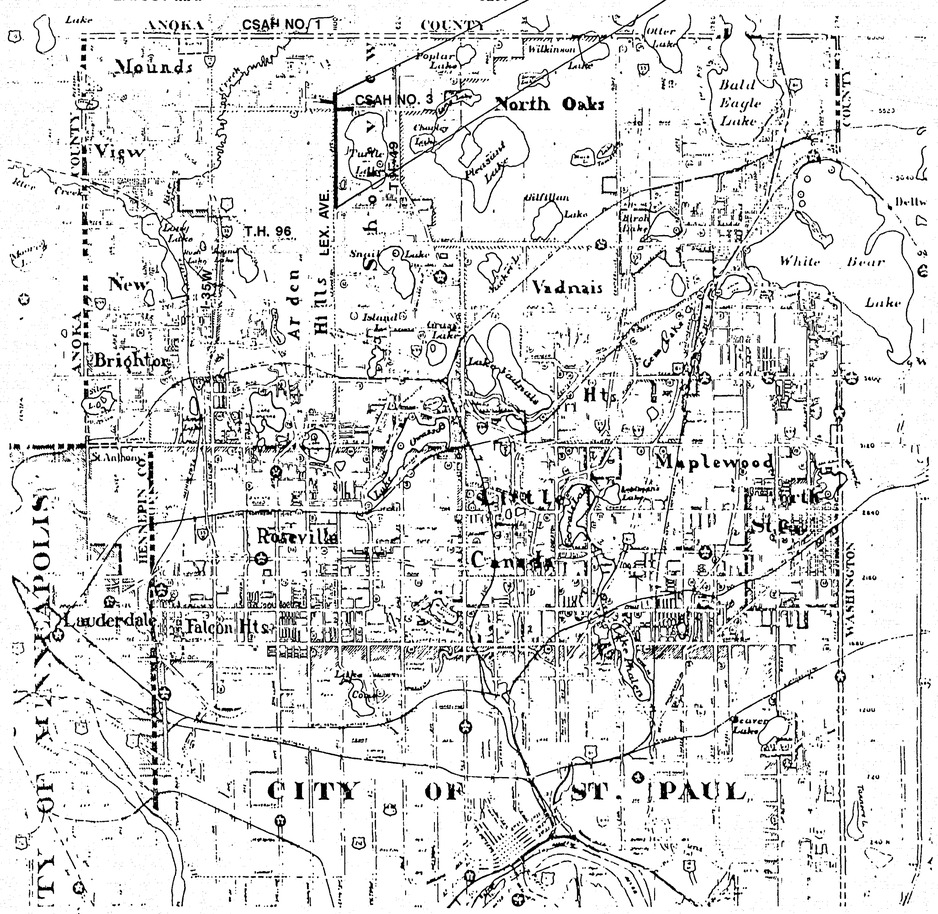
SEE TECH. MANUAL FOR ADDITIONAL SYMBOLS

NOTE SECTION NUMBERS READ FROM THE SOUTH

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATIONS "SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

	FEET	MILES
GROSS LENGTH	8971.67'	1.70
NET LENGTH	8971.67'	1.70
EXCEPTION	0'	0

PLAN 0 30 60
PROFILE HORIZONTAL 0 30 60
PROFILE VERTICAL 0 5 10
CROSS SECTIONS 0 10 20
LAYOUT MAP 5280'



RAMSEY COUNTY
DEPARTMENT OF PUBLIC WORKS

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, BITUMINOUS SURFACING, STORM SEWER, CONCRETE CURB AND GUTTER, AND BITUMINOUS PATH

S.A.P. 62-651-25 & SAP 167-020-07
LEXINGTON AVENUE
CSAH 51

BETWEEN : TANGLEWOOD DRIVE AND ROYAL OAKS DRIVE

FROM : A POINT 24.00 FEET NORTH OF THE EAST QUARTER CORNER OF SECTION 15 TOWNSHIP 30 N, RANGE 23 W

TO : A POINT 1521.59 FEET SOUTH OF THE EAST QUARTER CORNER OF SECTION 3, TOWNSHIP 30 N, RANGE 23 W

ACCOUNT NO. 47391

SHEET NO. INDEX

SHEET NO.	INDEX
1	TITLE SHEET
2-3	ESTIMATED QUANTITIES, QUANTITY NOTES, CONSTRUCTION NOTES
4-5	TYPICAL SECTIONS
6-7	EXISTING STORM & SANITARY SEWER, PUBLIC UTILITIES, SAWCUT CHARTS
8-9	PROPOSED DRAINAGE CHART, STANDARD PLATES, RIPRAP
10	REMOVALS, CLEAR & GRUB, SILT FENCE CHARTS
11	STORM SEWER STRUCTURE DETAILS
12	ENTRANCE, CURB, PED. RAMP, BASE SLAB DETAILS
13	ALIGNMENT SHEET
14-23	PLAN & PROFILES - LEXINGTON AVE.
24	PLAN & PROFILES - COUNTY RD. I EAST
25	PLAN & PROFILES - COUNTY RD. I WEST
26-65	X-SECTIONS - LEXINGTON AVE.
66-67	X-SECTIONS - COUNTY RD. I EAST
68-70	X-SECTIONS COUNTY RD. I WEST

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: J. B.C.
DATE: 3/4/91

DESIGN SQUAD DSN 1 DATE 2/90
DRAWN BY DSN DATE 3/90
CHECKED BY DEM DATE 3/90

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 2-28-90 REG. NO. 14057 ENGR. David L. Rhull

RAMSEY COUNTY

RECOMMENDED FOR APPROVAL DES TRAFFIC ENGR DATE 4/2/90
RECOMMENDED FOR APPROVAL KHR ENV ENGR DATE 4/2/90
RECOMMENDED FOR APPROVAL MAINT ENGR DATE 4/2/90
RECOMMENDED FOR APPROVAL LKF CONST ENGR DATE 4/2/90
RECOMMENDED FOR APPROVAL DLL DESIGN ENGR DATE 2-28-90
RECOMMENDED FOR APPROVAL JAB R/W ENGR DATE 4-2-90
RECOMMENDED FOR APPROVAL COORDINATING ENGR DATE
RECOMMENDED FOR APPROVAL ASSISTANT CO. ENGINEER Paul Kirkle DATE 4/19/90

RECOMMENDED FOR APPROVAL COUNTY ENGINEER DATE 5/3/90
APPROVED CHAIR. OF THE RAMSEY COUNTY BOARD Harold A. Ingard DATE 6/5/90
APPROVED CITY OF ARDEN HILLS Gary R Berger DATE 4/26/90
APPROVED CITY OF SHOREVIEW R Charles Ahl, PE DATE 4/16/90

MINNESOTA DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL STATE AID PLANS ENGINEER Julie Skallman DATE 5/22/90
RECOMMENDED FOR APPROVAL DISTRICT STATE AID ENGINEER DATE 5/2/90
APPROVAL STATE AID ENGINEER Dalvert O. Olson DATE 5-22-90

PLAN REVISIONS		
DATE	SHEET NO.	BY
6/4/90	1-3,5,6,9,10,16-18,20,21,25,40, 53,54,68	BJ,DH,TL,DM

DESIGN DESIGNATION

	TANGLEWOOD DRIVE TO ROYAL OAKS DRIVE
PRESENT ADT (1989) (1990)	9150
PROJECTED ADT (2009) (2010)	14650
FUNCTIONAL CLASS	HIGH DENSITY ARTERIAL
TRAFFIC LANES	4
PARKING LANES	0
DESIGN LOAD	10 TON
STABILOMETER "R" VALUE	70
N18 20 YEAR	1,848,000
DESIGN SPEED	45 MPH

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

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	CONTRACT ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	RAMSEY COUNTY ESTIMATED QUANTITIES	RAMSEY COUNTY FINAL QUANTITIES	RAMSEY COUNTY & CITY OF SHOREVIEW ESTIMATED QUANTITIES	RAMSEY COUNTY & CITY OF SHOREVIEW FINAL QUANTITIES	RAMSEY COUNTY & CITY OF ARDEN HILLS ESTIMATED QUANTITIES	RAMSEY COUNTY & CITY OF ARDEN HILLS FINAL QUANTITIES	STORM SEWER ESTIMATED QUANTITIES	STORM SEWER FINAL QUANTITIES
2021.501	MOBILIZATION	LS	1		1							
2101.501	CLEARING (P)	ACRE	2.3		2.3							
2101.506	GRUBBING (P)	ACRE	2.3		2.3							
2101.502	CLEARING	TREE	49		49							
2101.507	GRUBBING	TREE	49		49							
2104.501	REMOVE CM PIPE CULVERTS	LF	360		360							
2104.501	REMOVE RC PIPE CULVERTS	LF	210		210							
2104.501	REMOVE CURB & GUTTER	LF	290		290							
2104.501	REMOVE RC PIPE SEWERS	LF	465		465							
2104.503	REMOVE CONCRETE SIDEWALK	SF	110		110							
2104.505	REMOVE CONCRETE PAVEMENT	SY	20		20							
2104.509	REMOVE CATCH BASINS OR MANHOLE	EACH	7		7							
(1) 2104.511	SAWING CONCRETE PAVEMENT	LF	35		35							
(2) 2104.513	SAWING BITUMINOUS PAVEMENT	LF	2045		2045							
2104.523	SALVAGE CASTINGS ASSEMBLIES	EACH	7								7	
0104.604	MILL BITUMINOUS SURFACE - 1"	SY	2660		2660							
2105.501	COMMON EXCAVATION (P)	CY	32388		32388							
2105.505	MUCK EXCAVATION	CY	90632		90632							
2105.515	UNCLASSIFIED EXCAVATION	CY	3258								3258	
2105.521	GRANULAR BORROW (L.V.)	CY	161709		161709							
2105.525	TOPSOIL BORROW (L.V.)	CY	5205		5205							
(3) 2130.501	WATER	M GAL	100		100							
(4) 2211.503	AGGREGATE BASE CL.6 PLACED (P)	CY	16103		14241		1862					
(5) 2331.508	TYPE 31 - WEARING COURSE MIXTURE	TON	379		379							
(6) 2331.510	TYPE 31 - BINDER COURSE MIXTURE	TON	4933		4933							
2331.514	TYPE 31 - BASE COURSE MIXTURE	TON	13838		13838							
(7) 2331.518	TYPE 31 - BIT. MIX. FOR PATH (WEARING)	TON	742				742					
(8) 2331.518	TYPE 31 - BIT. MIX. FOR PATH (BINDER)	TON	706				706					
(9) 2357.502	BITUMINOUS MAT. FOR TACK COAT	GAL	2324		2025		299					
2331.508	TYPE 61 - WEARING COURSE MIXTURE	TON	3334		3334							
2411.507	CONCRETE (BASE SLAB)	EACH	1		1							
2501.515	12" R.C. PIPE APRONS	EACH	1								1	
2501.515	15" R.C. PIPE APRONS	EACH	12								12	
2501.515	18" R.C. PIPE APRONS	EACH	2								2	
2501.515	21" R.C. PIPE APRONS	EACH	2								2	
2501.515	24" R.C. PIPE APRONS	EACH	2								2	
2501.515	30" R.C. PIPE APRONS	EACH	1								1	
2501.515	36" R.C. PIPE APRONS	EACH	2								2	
2501.525	22" SPAN R.C. PIPE-ARCH APRONS	EACH	1								1	
0501.602	TRASH GUARD FOR 22" SPAN RCP-ARCH APRON	EACH	1								1	
0501.602	TRASH GUARD FOR 18" RC APRON	EACH	2								2	
0501.602	TRASH GUARD FOR 21" RC APRON	EACH	1								1	
0501.602	TRASH GUARD FOR 24" RC APRON	EACH	2								2	
0501.602	TRASH GUARD FOR 30" RC APRON	EACH	1								1	
0501.602	TRASH GUARD FOR 36" RC APRON	EACH	2								2	
2503.511	8" PVC PIPE SEWER	LF	155		155							
2503.541	12" R.C.P. SEWER DES. 3006	LF	155								155	
2503.541	15" R.C.P. SEWER DES. 3006 CL. V	LF	3566								3566	
2503.541	18" R.C.P. SEWER DES. 3006 CL. V	LF	545								545	
2503.541	21" R.C.P. SEWER DES. 3006 CL. III	LF	392								392	
2503.541	24" R.C.P. SEWER DES. 3006 CL. III	LF	461								461	
2503.541	30" R.C.P. SEWER DES. 3006 CL. III	LF	2672								2672	
2503.541	36" R.C.P. SEWER DES. 3006 CL. II	LF	94								94	
2503.521	22" SPAN R.C.P.-A SEWER CLASS IIA	LF	224								224	
2503.521	28" SPAN R.C.P.-A SEWER CLASS IIA	LF	239								239	
2506.508	CONSTRUCT MANHOLES DESIGN A OR F	EACH	8								8	

QUANTITY NOTES

(1) ENTRANCES - 12 L.F., CURB & GUTTER - 18 L.F., CONCRETE WALK - 5 L.F.

(2) ENTRANCES & BITUMINOUS PATHS - 485 L.F.

(3) WATER FOR DUST CONTROL

(4) ENTRANCES - 514 CY
BITUMINOUS PATH (EAST SIDE - SHOREVIEW) - 1671 CY
BITUMINOUS PATH (WEST SIDE - SHOREVIEW) - 191 CY

(5) ENTRANCES - 379 TON

(6) ENTRANCES - 379 TON

(7) BITUMINOUS PATH (EAST SIDE - SHOREVIEW) - 651 TON
BITUMINOUS PATH (WEST SIDE - SHOREVIEW) - 91 TON

(8) BITUMINOUS PATH (EAST SIDE - SHOREVIEW) - 646 TON
BITUMINOUS PATH (WEST SIDE - SHOREVIEW) - 60 TON

(9) BITUMINOUS PATH (EAST SIDE - SHOREVIEW) - 266 GAL.
BITUMINOUS PATH (WEST SIDE - SHOREVIEW) - 33 GAL.
ENTRANCES - 140 GAL,

(10) RAMSEY COUNTY - 310 SF REPLACEMENT - SHOREVIEW
SHOREVIEW - 2050 SF NEW CONCRETE WALK

(11) RAMSEY COUNTY - 666 LF B624 C & G FOR PARKING AREA AT ARCHERY RANGE.

(12) INPLACE SIGNAL SYSTEM AT LEXINGTON AVENUE AND TANGLEWOOD DRIVE.

BASIS FOR ESTIMATED QUANTITIES

2211.501 - AGGREGATE BASE - 140 POUNDS PER CU. FT.

2357.502 - BITUMINOUS MATERIAL FOR TACK COAT
ESTIMATED AT 0.05 GAL. PER SQ.YD. PER LIFT

2575.501 - ROADSIDE SEEDING (MIXTURE NO. 500)
ESTIMATED AT 50 POUNDS PER ACRE

2575.511 - MULCH MATERIAL (TYPE 1)
ESTIMATED AT 2 TON PER ACRE

2575.531 - COMM. FERTILIZER ANALYSIS 12-12-12
ESTIMATED AT 350 POUNDS PER ACRE

REVISIONS	DATE	BY	REVISIONS	DATE	BY
Quantity Revisions	6/1/80	TL			

PROJECT=47391 ALT= 1 REV= 1 SGR=LEXSEQ1 FORM= 0 DATE= 6/01/1980

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STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	CONTRACT ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES	RAMSEY COUNTY ESTIMATED QUANTITIES	RAMSEY COUNTY FINAL QUANTITIES	RAMSEY COUNTY & CITY OF SHOREVIEW ESTIMATED QUANTITIES	RAMSEY COUNTY & CITY OF SHOREVIEW FINAL QUANTITIES	RAMSEY COUNTY & CITY OF ARDEN HILLS ESTIMATED QUANTITIES	RAMSEY COUNTY & CITY OF ARDEN HILLS FINAL QUANTITIES	STORM SEWER ESTIMATED QUANTITIES	STORM SEWER FINAL QUANTITIES
2506.508	CONSTRUCT MANHOLES DESIGN 54-4020	EACH	3								3	
2506.508	CONSTRUCT MANHOLES DESIGN 60-4020	EACH	1								1	
2506.508	CONSTRUCT MANHOLES DESIGN 84-4020	EACH	1								1	
2506.509	CONSTRUCT SURFACE DRAIN DESIGN C OR G	EACH	1								1	
2506.509	CONST. CATCH BASINS DESIGN 54-4020	EACH	4								4	
2506.509	CONST. CATCH BASINS DESIGN 66-4020	EACH	3								3	
2506.509	CONST. CATCH BASINS DESIGN SP-2	EACH	38								38	
2506.509	CONST. CATCH BASINS DESIGN LP 4-5	EACH	4								4	
2506.509	CONST. CATCH BASINS DESIGN LP 4-12	EACH	1								1	
2506.509	CONST. CATCH BASINS DESIGN LP 4-6	EACH	1								1	
2506.509	CONST. CATCH BASINS DESIGN LP 4-3	EACH	2								2	
2506.509	CONST. CATCH BASINS DESIGN LP 4-4	EACH	3								3	
2506.511	RECONSTRUCT MANHOLES	LF	27.3		27.3							
2506.521	INSTALL CASTINGS	EACH	8		8							
2506.522	ADJUST FRAME AND RING CASTING	EACH	14		14							
2511.501	RANDOM RIPRAP CLASS IV (18" DEPTH)	CY	79.2								79.2	
(10) 2521.501	4" CONCRETE WALK	SF	2360		310		2050					
(11) 2531.501	CONC. CURB & GUTTER DES. B624	LF	17792		666		9256		7870			
2535.501	BITUMINOUS CURB	LF	782		782							
2573.502	SILT FENCE HEAVY DUTY	LF	9125		9125							
2575.501	ROADSIDE SEEDING	ACRE	4.1		4.1							
2575.502	SEED MIXTURE 500	LB	205		205							
2575.505	SODDING - TYPE - LAWN	SY	42735		42735							
2575.511	MULCH MATERIAL TYPE 1	TON	8.2		8.2							
2575.531	COMM. FERT. ANALYSIS 12-12-12	TON	2.1		2.1							
0411.603	RETAINING WALL (SPECIAL)	SF	93				93					
0503.602	BYPASS PUMPING FOR SANITARY SEWER	EACH	1		1							
0504.602	1" CURB STOP BOX ASSEMBLY	EACH	3		3							
0504.602	ADJUST VALVE BOX	EACH	19		19							
0504.602	ADJUST HYDRANT	EACH	2		2							
0504.602	16" BUTTERFLY VALVE & MANHOLE	EACH	2		2							
0504.603	1" TYPE K COPPER WATER SERVICE	LF	45				45					
0504.603	16" D.I.P. WATERMAIN CL. 53	LF	240		240							
0504.603	6" D.I.P. WATERMAIN CL. 53	LF	35				35					
0563.601	TRAFFIC CONTROL	LS	1		1							
0564.603	4" SOLID LINE YELLOW EPOXY	LF	18163		18163							
0564.603	4" BROKEN LINE WHITE EPOXY	LF	9082		9082							
0565.602	HANDHOLE - TYPE C	EACH	6		6							
0565.603	4" RIGID STEEL CONDUIT	LF	187		187							
(12) 0565.604	REVISE SIGNAL SYSTEM	SYSTEM	1		1							
2580.501	TEMPORARY LANE MARKING	RD.STA.	91		91							
2581.501	REMOVABLE PREFORMED PLASTIC MARKING	LF	710		710							

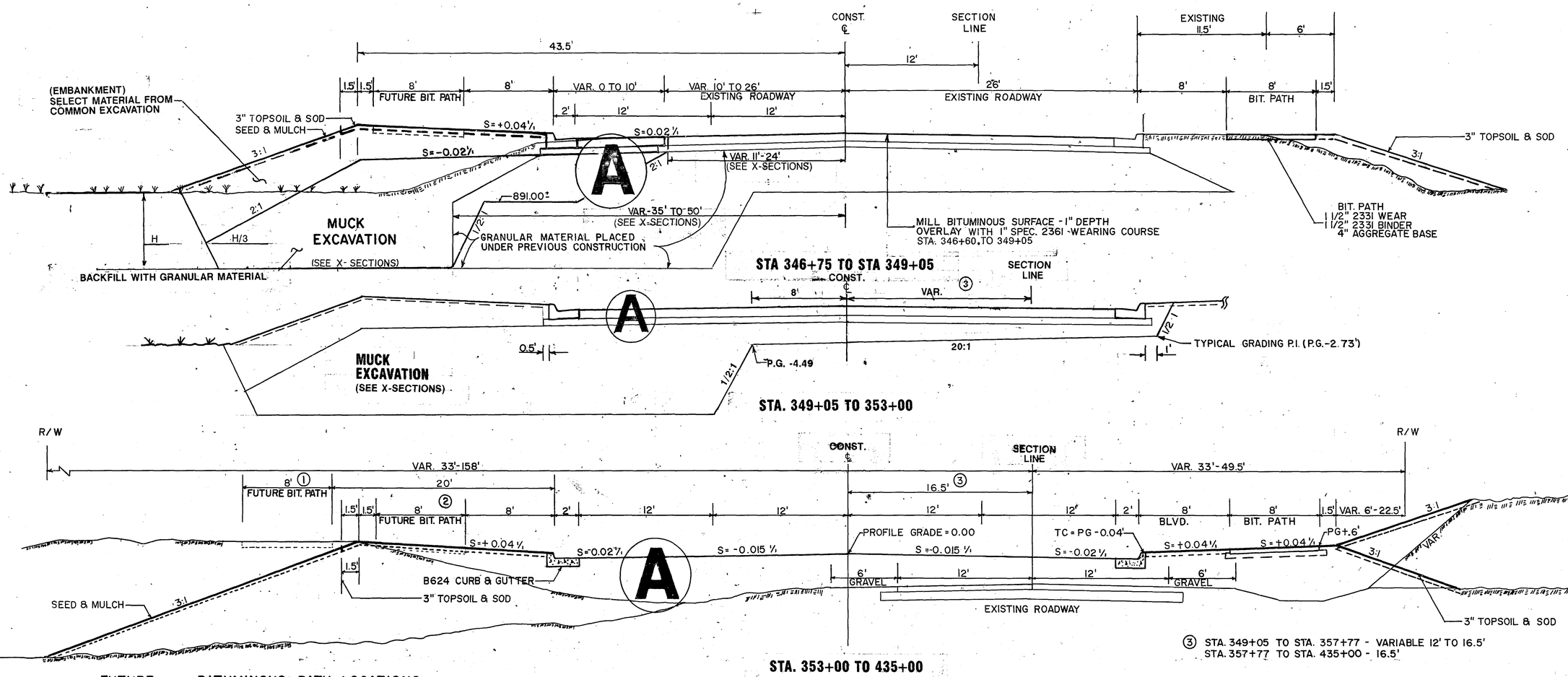
CONSTRUCTION NOTES

- THE CONTRACTOR SHALL COOPERATE WITH RAMSEY COUNTY AS RELATES TO PERPETUATING MONUMENTATION. ADVANCE NOTICE OF ANY DISTURBANCE OF MONUMENTS SHOULD BE MADE TO THE RAMSEY COUNTY SURVEYORS OFFICE AT 298-5278.
- THE CONTRACTOR SHALL OBTAIN FROM THE UTILITY COMPANIES THE EXACT LOCATION OF ANY UNDERGROUND UTILITIES WHICH MAY EXIST WITHIN, OR ADJACENT TO, THE CONSTRUCTION AREA.
- PEDESTRIAN CURB RAMPS SHALL BE INSTALLED AT ALL STREET RADII. THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- TOP OF "GRADING GRADE" IS DEFINED AS THE TOP OF THE EMBANKMENT MATERIAL OR THE BOTTOM OF THE AGGREGATE BASE COURSE.
- STRIP TOPSOIL FROM ALL AREAS TO BE DISTURBED BY CONSTRUCTION AND STOCKPILE (IF PRACTICAL) FOR REPLACEMENT LATER AS SLOPE DRESSING.
- PROVIDE FOR REMOVAL AND DISPOSAL OF (OUTSIDE THE CONSTRUCTION ZONE) ANY INPLACE SURFACING AND STRUCTURES THAT WILL INTERFERE WITH CONSTRUCTION.
- FROM A SOILS STANDPOINT, TRAFFIC SHALL BE MAINTAINED NO CLOSER THAN AN IMAGINARY 2:1 LINE DRAWN FROM THE BOTTOM OF ANY EXCAVATION INTERSECTING THE SURFACING.
- THE ORDINARY COMPACTION METHOD SHALL BE USED ON THIS PROJECT.
- PROVIDE DRAINAGE OUTLETS FOR ALL SUBCUTS DURING CONSTRUCTION. DITCHES SHOULD BE DEEPER THAN SUBCUT TO PROVIDE OUTLET DRAINAGE.
- PROVIDE A TACK COAT, SPEC. 2357.2A, BETWEEN BITUMINOUS COURSES.
- WHERE THE PROPOSED SUBCUT IS LOCATED UNDER INPLACE BASE AND BITUMINOUS SURFACING OR CONCRETE PAVEMENT, THE ENDS OF SUBCUT SHALL BE VERTICAL FOR THE DEPTH OF THE BITUMINOUS OR CONCRETE AND 2:1 IN AGGREGATE BASE.
- TAPER ENDS OF SUBCUT TO A 20:1 SLOPE UNLESS OTHERWISE RECOMMENDED.
- UNSUITABLE GRADING MATERIAL SHALL CONSIST OF TOPSOIL, OTHER ORGANIC SOIL, AND DEBRIS.
- SILT FENCE SHALL BE INSTALLED AT ALL FILL SLOPES AND MAY BE REQUIRED AT OTHER LOCATIONS DURING CONSTRUCTION AS DETERMINED BY THE ENGINEER. (SPEC. 2573, 3886 & 1707; 1803.5)
- REMOVAL OF EXISTING ENTRANCE CULVERTS SHALL BE INCIDENTAL TO ITEM 2105.501 - COMMON EXCAVATION. THEREFORE, NO ADDITIONAL COMPENSATION WILL BE MADE.

REVISIONS	DATE	BY	REVISIONS	DATE	BY
Quantity Revisions	6/1/90	TL			

PROJECT=47391 ALT= 1 REV= 1 SGR=LEXSE02 FORM= 0 DATE= 6/01/1990

27-131

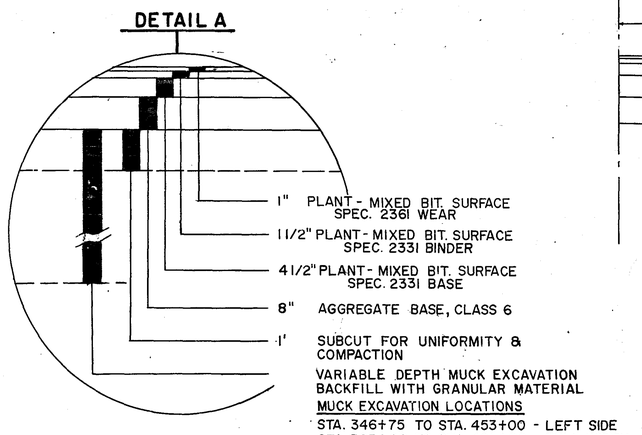


FUTURE BITUMINOUS PATH LOCATIONS

① STA. 346+50 to STA. 347+50
STA. 371+50 to STA. 377+00
STA. 401+50 to STA 410+00
STA. 424+50 to STA 435+00

② STA. 348+50 to STA. 370+50
STA 378+00 to STA. 400+50
STA 411+00 to STA 423+50

NOTE: MINIMUM 20 FOOT CLEAR ZONE FROM EDGE OF TRAFFIC LANE TO FIXED OBJECTS.



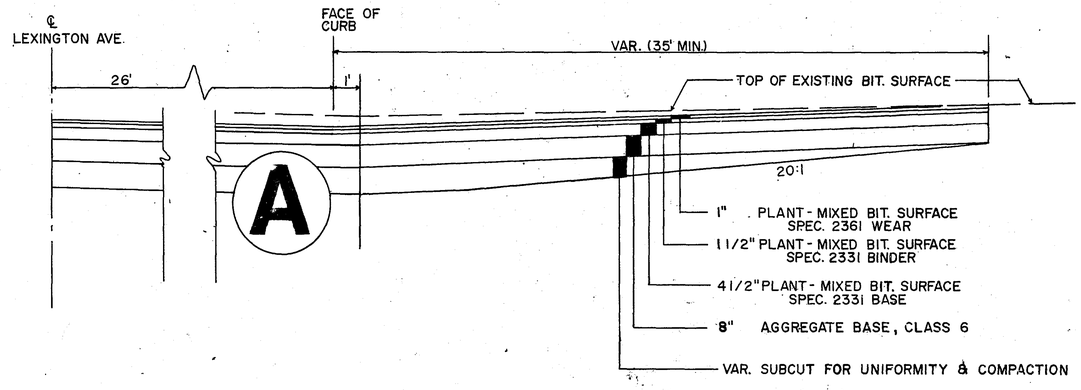
VARIABLE DEPTH MUCK EXCAVATION
BACKFILL WITH GRANULAR MATERIAL

MUCK EXCAVATION LOCATIONS

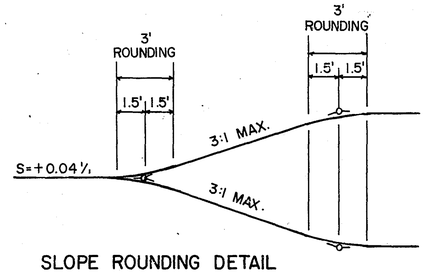
STA. 346+75 TO STA. 453+00 - LEFT SIDE
STA. 395+00 TO STA. 401+80 - FULL WIDTH
STA. 413+00 TO STA. 428+90 - FULL WIDTH

EXCEPTION

STA. 425+50 TO STA. 426+25



TYPICAL SIDE STREET APPROACH



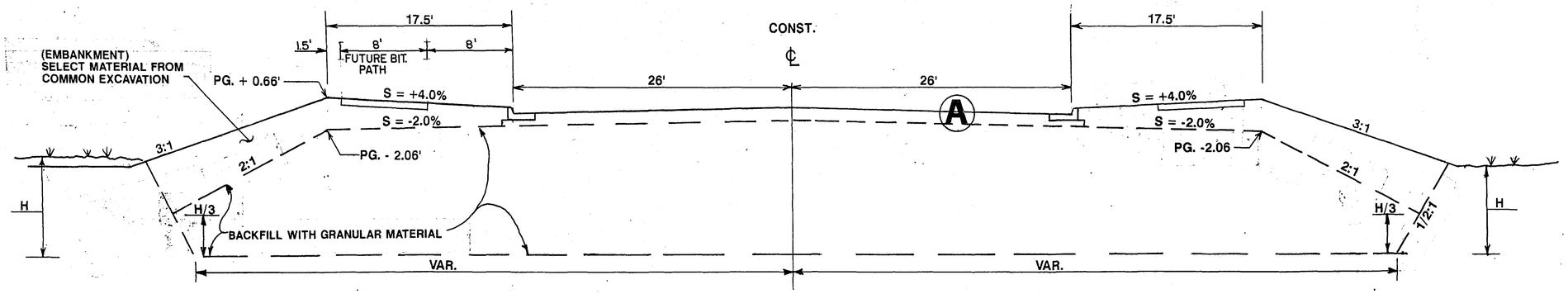
SLOPE ROUNDING DETAIL

LEXINGTON AVE. TYPICAL SECTIONS

S.A.P. 62-651-25

SHEET 4 OF 70 SHEETS

27-131



MUCK EXCAVATION

LEXINGTON AVE.

STA. 395+00 TO 401+80
STA. 413+00 TO 428+90

CO. RD. I - EAST

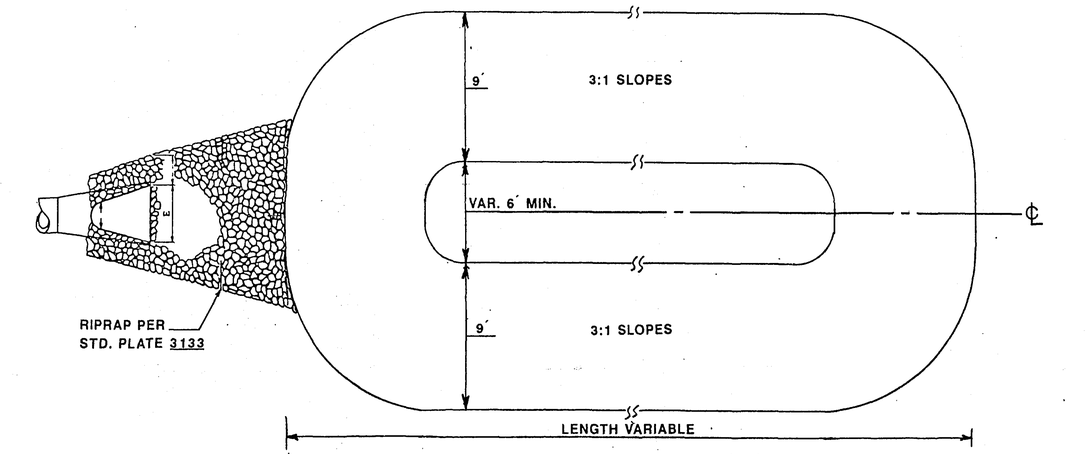
STA. 27+00 TO 30+50

NOTE : MINIMUM 20 FOOT CLEAR ZONE FROM EDGE OF TRAFFIC LANE TO FIXED OBJECTS.

SEDIMENT PONDS

NO.	LOCATION	℄	CL. U EXC.
1	348+50 TO 350+15	80' LT.	217 CY.
2	362+58 TO 363+43	102' LT.	164 CY.
3	395+00 TO 400+45	86' LT.	940 CY.
4	413+75 TO 424+25	82' LT.	1937 CY.

SEDIMENT PONDS SHALL BE PAID FOR AS ITEM NO. 2105.515 UNCLASSIFIED EXCAVATION C.Y.



SEDIMENT POND DETAILS

REVISIONS	DATE	BY	REVISIONS	DATE	BY
Removed Pond #5	6/1/90	TL			

EXISTING STORM SEWER CHART

STATION	LOCATION	NO.	TYPE	DESIGN	ELEVATION PROFILE	ELEVATION ORIGINAL GRATE OR RING	ELEVATION NEW GRATE OR RING	ELEVATION CB OR MH INVERT	ADJUST CASTING ASSEMBLY	RECONSTRUCT CB OR MH L.F.	INSTALL CASTING ASSEMBLY	APRON	PIPE TYPE	REMARKS (SEE REMOVAL CHART FOR PIPE QUANTITIES TO BE REMOVED)
LEXINGTON AVENUE														
346+50	LT. 62'	1	AP	STORM	896.45	888.94						31" ARCH	RCP	OK
346+70	RT. 56'	2	SD	STORM	896.29	892.76		891.1						OK
348+80	RT. 56'	3	AP	STORM	895.08	893.12						15"	RCP	OK
348+80	RT. 28'	4	CB	STORM	895.08			892.2						OK
348+80	LT. 54'	5	AP	STORM	895.08	891.80						15"	RCP	OK - RIPRAP, 3.5 CY
356+18	RT. 40'	9	AP	STORM	904.20	902.00						15"	RCP	REMOVE
357+57	RT. 40'	10	MH	STORM	907.49	906.76		902.8						REMOVE - SALVAGE CASTING
357+60	RT. 60'	11	CB	STORM	907.55	906.28		902.4						REMOVE - SALVAGE CASTING
357+92	RT. 60'	12	CB	STORM	908.12	906.64		902.9						REMOVE - SALVAGE CASTING
362+35	RT. 38'	15	CB	STORM	907.90									REMOVE - SALVAGE CASTING
362+40	LT. 22'	16	AP	STORM	907.85							15"	CMP	REMOVE
363+05	RT. 38'	18	CB	STORM	907.31									REMOVE - SALVAGE CASTING
363+10	LT. 20'	19	AP	STORM	907.29	897.50						15"	CMP	REMOVE
394+50	RT. 54'	26	AP	STORM	898.50	893.88						18"	RCP	REMOVE
394+73	RT. 56'	27	CB	STORM	898.05	896.66		893.3						REMOVE - SALVAGE CASTING
395+03	RT. 55'	28	CB	STORM	897.48	896.66		893.0						REMOVE - SALVAGE CASTING
395+28	RT. 55'	29	AP	STORM	896.99	892.79						18"	RCP	REMOVE
397+25	LT. 27'	30	AP	STORM	893.78	889.54						18"	CMP	REMOVE
397+25	RT. 59'	31	AP	STORM	893.78	888.65						18	CMP	REMOVE
397+72	LT. 40'	32	AP	STORM	893.65	889.2						18" ARCH	RCP	REMOVE
397+92	RT.	33	AP	STORM	893.69	889.9						18" ARCH	RCP	REMOVE
397+93	RT. 68'	34	AP	STORM	893.70	890.83						12"	RCP	REMOVE APRON - EXTEND PIPE
400+14	RT. 55'	35	AP	STORM	895.74	891.3						18"	RCP	REMOVE
400+40	RT. 85'	36	CB	STORM	895.99	895.02		892.02						OK
400+46	RT. 58'	37	MH	STORM	896.05	895.83		891.63	1					ADJUST - PLUG PIPES
400+46	RT. 85'	38	MH	STORM	896.05	895.82		892.02						OK
400+68	RT. 85'	39	CB	STORM	896.26	895.02		892.02						OK
400+88	RT. 58'	40	AP	STORM	896.46	891.88						18"	RCP	REMOVE
414+95	RT. 42'	43	AP	STORM	891.70	885.64						30"	RCP	REMOVE
415+35	RT. 42'	45	AP	STORM	891.50	885.81						30"	RCP	REMOVE
415+65	RT. 42'	46	CMP	STORM	891.37	885.52						30"	CMP	REMOVE
415+70	LT. 16'	47	CMP	STORM	891.37	885.3							CMP	REMOVE
424+90	RT. 52'	52	AP	STORM	892.51	886.4						18"	CMP	REMOVE
425+50	RT. 52'	55	AP	STORM	892.81	886.8						18"	CMP	REMOVE
425+72	LT. 19'	56	CMP	STORM	892.92								CMP	REMOVE
426+02	LT. 19'	57	CMP	STORM	893.07								CMP	REMOVE
426+48	LT. 20'	59	AP	STORM	893.30	892.15						15"	RCP	REMOVE
427+08	LT. 20'	60	AP	STORM	893.60	892.55						15'	RCP	REMOVE
427+36	LT. 28'	62	RCP	STORM	893.74	892.5							RCP	REMOVE
428+35	LT. 14'	64	AP	STORM	894.23	892						18"	CMP	REMOVE
428+95	LT. 14'	65	AP	STORM	894.53	892.8						18"	CMP	REMOVE
COUNTY ROAD I (WEST)														
15+03	RT. 37'	73	AP	STORM	892.12	883.49						24"	CMP	REMOVE [illegible]
15+03	LT. 37'	74	AP	STORM	892.12	885.29						24"	CMP	OK
24+20	RT. 62'	76	CB	STORM	897.67	898.67		893.97						PLUG PIPE
25+14	RT. 62'	77	AP	STORM	896.23	892.75						18"	RCP	REMOVE - PLUG PIPE
COUNTY ROAD I (EAST)														
29+94	RT. 30'	78	CMP	STORM	889.86	886.72						18"	CMP	REMOVE
30+32	RT. 30'	79	CMP	STORM	889.63	886.88						18"	CMP	REMOVE
								TOTAL =	1					

WATER UTILITIES CHART

STATION	LOCATION	ITEM INPLACE	NO.	ELEVATION PROFILE	ELEVATION ORIGINAL GRATE OR RING	ELEVATION NEW GRATE OR RING	ELEVATION CB OR MH INVERT	ADJUST CASTING ASSEMBLY	RECONST. CB OR MH L.F.	INSTALL CASTING ASSEMBLY	REMARKS
LEXINGTON AVE.											
357+90	RT. 57'	GATE VALVE & BOX		908.08	906.73						ADJUST
357+95	RT. 57'	HYDRANT		908.17							OK
358+10	RT. 38'	GATE VALVE & BOX		908.40							COULD NOT LOCATE
359+49	RT. 40'	MANHOLE	14	909.68	908.80			1			ADJUST
362+98	RT. 62'	GATE VALVE & BOX		907.35	906.78						ADJUST
363+00	RT. 62'	HYDRANT		907.34							OK
369+40	RT. 42'	GATE VALVE & BOX		916.98							COULD NOT LOCATE
369+40	RT. 48'	HYDRANT		916.98							OK
371+46	RT. 36'	GATE VALVE & BOX		916.67	917.17						ADJUST
373+40	RT. 36'	MANHOLE	24	915.40	917.43	916.02	907.43		3.1	1	RECONSTRUCT
373+88	RT. 42'	GATE VALVE & BOX		915.45	917.05						ADJUST
373+88	RT. 48'	HYDRANT		915.45							OK
376+97	RT. 42'	GATE VALVE & BOX		912.65	913.25						ADJUST
376+97	RT. 48'	HYDRANT		912.65							OK
380+65	RT. 42'	GATE VALVE & BOX		912.29	912.93						ADJUST
380+65	RT. 48'	HYDRANT		912.29							OK
380+84	RT. 50'	GATE VALVE & BOX		912.39							COULD NOT LOCATE
385+92	RT. 42'	GATE VALVE & BOX		910.49	910.94						ADJUST
385+92	RT. 48'	HYDRANT		910.49							OK
390+56	RT. 42'	GATE VALVE & BOX		905.71	905.43						ADJUST
390+56	RT. 48'	HYDRANT		905.71							OK
390+95	RT. 44'	GATE VALVE & BOX		905.06	905.48						ADJUST
393+38	RT. 52'	GATE VALVE & BOX		900.66							COULD NOT LOCATE
394+95	RT. 64'	GATE VALVE & BOX		897.63	896.92						OK
395+00	RT. 70'	GATE VALVE & BOX		897.53	896.94						OK
395+05	RT. 70'	HYDRANT		897.44							OK
400+60	RT. 66'	GATE VALVE & BOX		896.19	895.55						OK
400+63	RT. 70'	GATE VALVE & BOX		896.22	895.45						OK
400+70	RT. 52'	GATE VALVE & BOX		896.28	895.50						ADJUST
400+75	RT. 70'	HYDRANT		896.33							OK
406+18	RT. 42'	GATE VALVE & BOX		901.09	901.77						ADJUST
406+18	RT. 45'	HYDRANT		901.09							OK
408+55	RT. 38'	MANHOLE	41	901.35	901.66	901.69	892.66	1			ADJUST
411+23	RT. 40'	GATE VALVE & BOX		896.79	897.58						ADJUST
411+23	RT. 46'	HYDRANT		896.79							OK
414+81	RT. 26'	GATE VALVE & BOX		891.77	891.13						ADJUST
415+03	RT. 45'	HYDRANT		891.66							OK (SEE SPECIAL PROVISIONS)
415+08	RT. 45'	GATE VALVE & BOX		891.64	890.64						ADJUST (SEE SPECIAL PROVISIONS)
415+12	RT. 51	GATE VALVE & BOX		891.62	890.62						ADJUST (SEE SPECIAL PROVISIONS)
419+25	RT. 40'	GATE VALVE & BOX		892.18	890.66						ADJUST
419+25	RT. 46'	HYDRANT		892.18							ADJUST
422+85	RT. 40'	GATE VALVE & BOX		891.48	890.35						ADJUST
422+85	RT. 46'	HYDRANT		891.48							ADJUST
424+68	RT. 40'	GATE VALVE & BOX		892.40	891.20						ADJUST
424+74	RT. 66'	MANHOLE	50	892.43	890.59	891.50		1			ADJUST
424+85	LT. 26'	MANHOLE	51	892.48	893.08	891.92		1			ADJUST
426+00	LT. 40'	MANHOLE	58	893.06	896.31	893.58	888.21		2.7	1	RECONSTRUCT
429+20	RT. 38'	GATE VALVE & BOX		894.69							COULD NOT LOCATE
434+22	RT. 48'	GATE VALVE & BOX		901.06							COULD NOT LOCATE
434+45	RT. 40'	MANHOLE	71	900.98	900.86	901.38	891.86		2.4	1	RECONSTRUCT
371+38±	RT. 46'	HYDRANT									OK

PROPOSED WATER MANHOLES

413+00	LT. 28'	WMH	1	892.78		892.80	884.50			BUILD OVER EXIST. 16" DIP
415+40	LT. 28'	WMH	2	891.48		891.20	882.50			BUILD OVER EXIST. 16" DIP

REVISION	DATE	BY
County Rd I (west) sta 15+03 Rt Remove	5/31	TL

S.A.P. 52-851-25

SHEET 6 OF 70 SHEETS

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SAWCUT CHART

STATION	LOCATION LT. / RT.	SAWCUT CONCRETE PAVEMENT LIN. FT.	SAWCUT BIT. PAVEMENT LIN. FT.	REMARKS
LEXINGTON AVENUE				
346+65	RT. 42'	5		CONCRETE WALK
357+60	RT. 72'	2		CURB
357+90	RT. 72'	2		CURB
400+35	RT. 80'	2		CURB AT LAKE BEACH RD.
409+92	RT.	12		ENTRANCE
426+60	LT.	2		CURB AT FIRE STATION
426+92	LT.	2		CURB AT FIRE STATION
(ROADWAYS)				
346+80 TO 349+05	LT.		230	
349+05			36	TRANSVERSE
357+77	RT.		32	ROBIN HOOD PLACE
362+78	RT.		42	JOHN'S ROAD
380+91	RT.		26	KIMBERLY LANE
390+88	RT.		26	NELSON DRIVE
394+88	RT.		32	LAKE OAKS DRIVE
400+53	RT.		30	LAKE BEACH DRIVE
415+18	RT.		20	LAKE AVENUE
434+07	RT.		36	ROYAL OAKS DRIVE
COUNTY ROAD I (EAST)				
30+10	RT.		18	LAKE AVENUE
30+50			26	TRANSVERSE
COUNTY ROAD I (WEST)				
15+50 TO 25+00	RT.		970	
22+35	RT. 46'	4		CURB AT FIRE STATION
24+60	RT. 46'	4		CURB AT FIRE STATION
25+90			44	TRANSVERSE
LEXINGTON AVENUE				
(ENTRANCES)				
357+08	RT.		22	
358+70	RT.		22	
367+63	RT.		18	
368+18	RT.		18	

STATION	LOCATION LT. / RT.	SAWCUT CONCRETE PAVEMENT LIN. FT.	SAWCUT BIT. PAVEMENT LIN. FT.	REMARKS
(ENTRANCES - CONT.)				
369+04	RT.		12	
370+48	RT.		12	
374+08	RT.		16	
375+71	RT.		14	
377+42	RT.		20	
383+96	RT.		12	
385+75	RT.		12	
387+56	RT.		12	
387+82	RT.		16	
390+40	RT.		18	NELSON DRIVE
401+88	LT.		28	ARSENAL
402+77	RT.		16	
405+08	RT.		22	
408+86	RT.		14	
411+00	RT.		14	
411+93	RT.		12	
412+14	RT.		12	
418+71	RT.		12	
421+38	RT.		12	
426+78	LT.		32	FIRE STATION
432+36	RT.		20	
434+07	LT.		26	SCHOOL
(BITUMINOUS PATH)				
425+90	LT.		8	
425+90	RT.		8	
434+40	LT.		9	
COUNTY ROAD I (WEST)				
21+50	RT.		8	

EXISTING SANITARY SEWER CHART

STATION	LOCATION	NO.	TYPE	CASTING ASSEMBLY	ELEVATION PROFILE	ELEVATION ORIGINAL GRATE OR RING	ELEVATION NEW GRATE OR RING	ELEVATION CB OR MH INVERT	ADJUST CASTING ASSEMBLY	RECONSTRUCT CB OR MH L.F.	INSTALL CASTING ASSEMBLY	REMARKS
LEXINGTON AVENUE												
349+70	RT. 54'	6	MH	9"	895.47	893.55		884.9				OK
352+98	RT. 54'	7	MH	9"	897.51	897.32		886.1				OK
354+80	RT. 51'	8	MH	9"	901.10	899.23		889.7				OK
358+75	RT. 56'	13	MH		907.82	911.04	911.5	895.5		3.7	1	RECONSTRUCT
362+75	RT. 55'	17	MH	9"	907.51	906.61	907.0	896.8		2.4	1	RECONSTRUCT
366+10	RT. 55'	20	MH	9"	911.29	914.37		902.1				OK
367+25	RT. 48'	21	MH	9"	913.67	917.09	915.7	906.5	1			ADJUST
369+35	RT. 48'	22	MH	9"	916.94	917.60		907.1				OK
372+12	RT. 39'	23	MH	9"	916.34	917.35	916.8	908.0	1			ADJUST
390+92	RT. 54'	25	MH	9"	905.11	906.21	906.4	901.4	1			ADJUST
411+66	RT. 38'	42	MH	9"	895.79	896.25	896.1	886.2	1			ADJUST
415+18	RT. 38'	44	MH	9"	891.59	891.24	890.8	883.0	1			ADJUST
417+50	RT. 58'	48	MH	9"	892.18	890.78	891.7	882.5		3.3	1	RECONSTRUCT
421+28	RT. 55'	49	MH	9"	891.16	891.27	891.0	880.8	1			ADJUST
424+99	RT. 55'	53	MH	9"	892.55	890.64	891.8	878.8		5.2	1	RECONSTRUCT
425+18	LT. 42'	54	MH	9"	892.65	892.87	891.8	878.3	1			ADJUST
427+06	LT. 42'	61	MH		893.59							UNABLE TO LOCATE
428+35	LT. 40'	63	MH	9"	894.23	894.43	894.3	878.1	1			ADJUST
429+56	RT. 58'	66	MH	9"	895.07	896.12		892.5				OK
430+06	RT. 51'	67			895.91							UNABLE TO LOCATE
431+05	RT. 45'	68	MH	7"	897.86	897.47	898.0	890.97	1			ADJUST
431+64	LT. 40'	69	MH	9"	899.01	899.85		877.9				OK
434+15	LT. 40'	70	MH	7"	901.08	901.30		879.8				OK
434+95	LT. 40'	72	MH	9"	900.65	900.08		877.6				OK
COUNTY ROAD I (WEST)												
24+20	RT. 40'	75	MH	9"	897.67	899.67	900.0	880.7		4.3	1	RECONSTRUCT
COUNTY ROAD I (EAST)												
30+08	RT. 26'	80	MH	24"	889.73	889.50	889.7	879.1	1			
								TOTAL =	10	18.9	5	

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PROPOSED DRAINAGE CHART

STATION	LOCATION	NO.	TYPE	DESIGN	CASTING ASSEMBLY	ELEVATION				F & I REINFORCED CONCRETE PIPE SEWER									DRAINS TO		REMARKS
						PROFILE	ORIGINAL GRATE OR RING	NEW GRATE OR RING	CB OR MH INVERT	12"	15"	18"	21"	24"	30"	36"	22" SPAN ARCH	28" SPAN ARCH	STRUCTURE NO.	INVERT ELEV.	
LEXINGTON AVENUE																					
348+82	LT. 27. 5'	101	CB	LP4-3	C	895.08		895.07	891.85										EXIST. AP	891.71	BUILD OVER EXISTING PIPE
352+00	LT. 64'	102	AP	15" APRON		896.63			891.80												
354+00	LT. 25. 5'	103	CB	SP-2	B	899.50		898.91	894.50		199								102	891.80	
354+00	RT. 25. 5'	104	CB	SP-2	B	899.50		898.91	895.00		51								103	894.50	
356+80	RT. 25. 5'	105	CB	SP-2	B	905.75		905.16	900.60		280								104	895.20	
357+62	RT. 62'	106	CB	SP-2	B	907.58		906.33	902.36		90								105	901.46	
357+91	RT. 62'	107	CB	SP-2	B	908.10		906.72	902.70		30								106	902.40	
358+29	RT. 25. 5'	108	CB	SP-2	B	908.67		908.08	903.60		148								105	900.80	
362+16	RT. 25. 5'	109	CB	SP-2	B	908.09		907.50	902.80		60								110	902.50	
362+64	RT. 62'	110	CB	SP-2	B	907.61		906.8	901.80					30					111	901.50	
362+64	RT. 70'		STUB			907.61			902.40			8							110	902.00	STUB - PLUG
362+93	RT. 62'	111	CB	SP-2	B	907.38		906.8	901.30					60					112	900.70	
363+43	RT. 27. 5'	112	CB	LP4-6	C	907.22		907.21	900.50					55					113	899.68	
363+43	LT. 27. 5'	113	CB	LP4-12	C	907.22		907.21	895.00					50					114	894.00	
363+43	LT. 84'	114	AP	24" APRON		907.22			894.00											894.00	RIPRAP
367+00	RT. 25. 5'	115	CB	SP-2	B	913.20		912.61	907.20		351								112	901.45	
367+00	LT. 25. 5'	116	CB	SP-2	B	913.20		912.61	907.65		51								115	907.40	
373+53	RT. 25. 5'	117	CB	SP-2	B	915.63		915.04	912.00		71								116	911.65	
374+22	RT. 28'	118	MH	54-4020	A	915.20		915.23	910.86			205							119	908.81	
374+22	RT. 44"		STUB			915.20			911.51				16						118	911.35	STUB - PLUG
376+00	RT. 25. 5'	119	CB	SP-2	B	913.55		912.96	908.61				216						122	906.91	
376+00	LT. 25. 5'	120	CB	SP-2	B	913.55		912.96	909.50		51								119	909.26	
378+45	RT. 27.5'	122	CB	LP4-5	C	911.33		911.32	906.72					12					123	906.68	
378+57	RT. 27. 5'	123	CB	54-4020	C	911.31		911.3	906.63					223					125	904.85	
378+57	LT. 27. 5	124	CB	LP4-4	C	911.31		911.3	907.29		58								123	907.00	
380+80	RT. 29'	125	MH	54-4020	A	912.37		911.8	904.25						290				126A	902.81	
380+80	RT. 61'		STUB			912.37			907.32			32							125	907.00	STUB - PLUG
383+70	RT. 25. 5'	126A	CB	54-4020	B	911.89		911.30	902.79						240				126	901.60	
386+10	RT. 25. 5'	126	CB	54-4020	B	910.38		909.79	901.40						206				128	900.37	
386+10	LT. 25. 5'	127	CB	SP-2	B	910.38		909.79	905.75		51								126	905.50	
388+15	RT. 29'	128	MH	54-4020	A	909.09		909.2	900.17						208				129	898.51	
388+15	RT. 45'		STUB			909.09			904.16			16							128	904.00	STUB - PLUG
390+25	RT. 25. 5'	129	CB	54-4020	B	906.22		905.63	898.31						409				133	892.17	
390+25	LT. 25. 5'	130	CB	SP-2	B	906.22		905.63	901.00		51								129	900.75	
390+72	RT. 62'	131	CB	SP-2	B	905.44		906.6	901.74		60								129	901.14	
391+01	RT. 62'	132	CB	SP-2	B	904.96		906.6	902.00		32								131	901.84	
394+34	RT. 25. 5'	133	CB	66-4020	B	898.81		898.22	891.97						90				137	890.65	
394+34	LT. 25. 5'	134	CB	SP-2	B	898.81		898.22	893.75		51								133	893.50	
394+73	RT. 62'	135	CB	SP-2	B	898.05		896.85	892.69		32								136	892.53	
395+02	RT. 62'	136	CB	SP-2	B	897.49		896.74	892.33		66								137	891.67	
395+20	C/L	137	MH	84-4020	A	897.15		897.13	890.13							82			138	889.50	
395+82	LT. 65'	138	AP	36" APRON		895.95			889.50											889.50	RIPRAP
397+67	RT. 27. 5'	139	CB	LP4-3	C	893.65		893.64	890.15								59		140	889.80	
397+67	LT. 27. 5'	140	CB	LP4-4	C	893.65		893.64	889.64					31					141	889.50	
397+59	LT. 65'	141	AP	24" APRON		893.66			889.50											889.50	RIPRAP
397+91	RT. 49'	142	SD	C OR G	D	893.69		893.0	890.60		32								139	890.25	
397+93	RT. 68'	34	AP	EXISTING		893.70			890.83	20									142	890.63	MAKE PROPER CONNECTION
400+35	LT. 65'	143	AP	21" APRON		895.94			889.50											889.50	RIPRAP
400+46	RT. 58'	37	MH	EXISTING		896.05		904.0	891.63			67							145	891.05	MAKE PROPER CONNECTION
401+05	LT. 25. 5'	144	CB	SP-2	B	896.63		896.04	890.25				75						143	889.50	
401+05	RT. 25. 5'	145	CB	SP-2	B	896.63		896.04	890.85			51							144	890.34	
404+50	LT. 25. 5'	146	CB	SP-2	B	900.01		899.42	894.50		343								144	890.60	
404+50	RT. 25. 5'	147	CB	SP-2	B	900.01		899.42	894.94		51								146	894.70	
406+30	RT. 30'	148	MH	A OR F	A	901.15		901.3	896.85		180								147	895.05	
406+30	RT. 50'	149	AP	15" APRON		901.15			899.30		15								148	898.86	
411+50	RT. 25. 5'	150	CB	SP-2	B	896.16		895.57	891.45		51								151	891.20	
411+50	LT. 25. 5'	151	CB	SP-2	B	896.16		895.57	891.00		247								152	886.30	
413+96	LT. 29'	152	MH	A OR F	A	892.20		892.24	886.07			28							153	885.50	
413+96	LT. 63'	153	AP	18" APRON		892.20			885.80											885.80	RIPRAP
413+96	RT. 57'	154	AP	18" APRON		892.20			886.50			80							152	886.16	
415+08	RT. 62'	155	CB	SP-2	B	891.64		890.3	887.50		20								156	887.30	
415+28	RT. 62'	156	CB	SP-2	B	891.54		890.3	887.00			58							157	886.71	
415+28	RT. 70'		STUB			891.54			887.14		8								156	887.10	STUB - PLUG

DATE	REVISIONS	BY
5/31/90	AP.12 & CB.122	DSH

MANHOLES, CATCH BASINS & SURFACE DRAINS

DESIGN A OR F - SEE MN/DOT STANDARD PLATE NO. 4000 OR 4005
DESIGN SPECIAL 2 - SEE DETAIL SHEET NO. 11
DESIGN LP4 - HEIGHT - SEE MN/DOT STANDARD PLATE NO. 4021 & DETAIL SHEET NO. 11
DESIGN 4020 - SEE MN/DOT STANDARD PLATE NO. 4020
DESIGN C - SEE MN/DOT STANDARD PLATE NO. 4002

CASTING ASSEMBLIES

(A) DESIGN A OR F, 4020 (MANHOLE)
RING CASTING - MN/DOT NO. 700-7, SEE STANDARD PLATE NOS. 4101, 4108
COVER CASTING - MN/DOT NO. 712, SEE STANDARD PLATE NO. 4110

(B) DESIGN SPECIAL 2, DIAMETER-4020
FRAME, GRATE & CURB BOX (SEE DETAIL SHEET NO. 11)

(C) DESIGN LP4-HEIGHT
RING CASTING - MN/DOT NO. 790-2, MODIFIED - SEE STANDARD PLATE NO. 4021
COVER CASTING - MN/DOT NO. 712 - SEE STANDARD PLATE NO. 4110

(D) DESIGN C (SURFACE DRAIN)
RING CASTING - MN/DOT NO. 700-7, SEE STANDARD PLATE NO. 4101
GRATE CASTING - MN/DOT NO. 720, SEE STANDARD PLATE NO. 4140

NOTE: CASTING ASSEMBLIES ARE INCLUDED IN THE PRICE OF THE STRUCTURE.
THEY ARE NOT A SEPARATE PAY ITEM.

STANDARD PLATES

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

PLATE NO.	DESCRIPTION
0005A	SPECIFICATION REFERENCE TO STANDARD PLATES (1988)
3000K	REINFORCED CONCRETE PIPE
3006F	GASKET JOINT FOR REINFORCED CONCRETE PIPE
3014J	REINFORCED CONCRETE ARCH PIPE
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110G	CONCRETE APRON FOR R.C. ARCH PIPE
3133B	RIPRAP AT R.C. PIPE OUTLETS
3145E	CONCRETE PIPE TIES
4000I	MANHOLE OR CATCH BASIN - DESIGN A
4002E	MANHOLE OR CATCH BASIN - DESIGN C
4005K	MANHOLE OR CATCH BASIN - DESIGN F
4006K	MANHOLE OR CATCH BASIN - DESIGN G OR H
4010G	CONCRETE SHORT CONE & ADJUSTING RING
4011D	CONCRETE BASE
4020E	MANHOLE OR CATCH BASIN (USE UNDER TRAFFIC LOADS)
4021C	PRECAST CURB OPENING - CATCH BASIN
4101C	RING CASTINGS FOR MANHOLES OR CATCH BASINS
4108E	MANHOLE ADJUSTING RING
4110D	COVER CASTING FOR MANHOLE
4140D	SPECIAL GRATE CASTINGS FOR CATCH BASINS
4180H	MANHOLE OR CATCH BASIN STEP
7036C	PEDESTRIAN CURB RAMP DETAIL
7065C	BITUMINOUS CURB
7100F	CONCRETE CURB & GUTTER
8000I	STANDARD BARRICADES
8117F	PRECAST CONCRETE HANDHOLE
8130D	SAWCUT LOOP DETECTORS
9102C	SODDING AT PIPE CULVERT ENDS

PROJECT=47381 ALT= 1 REV= 1 SSR=LEXDRN1 FORM= 0 DATE= 3/22/1990

PROPOSED DRAINAGE CHART

STATION	LOCATION	NO.	TYPE	DESIGN	CASTING ASSEMBLY	ELEVATION				F & I REINFORCED CONCRETE PIPE SEWER									DRAINS TO		REMARKS
						PROFILE	ORIGINAL GRATE OR RING	NEW GRATE OR RING	CB OR MH INVERT	12"	15"	18"	21"	24"	30"	36"	22" SPAN ARCH	28" SPAN ARCH	STRUCTURE NO.	INVERT ELEV.	
LEXINGTON AVENUE																					
415+75	RT. 27.5'	157	CB	LP4-5	C	891.36		891.35	886.42				59						158	886.12	
415+75	LT. 27.5'	158	CB	LP4-5	C	891.36		891.35	886.02				26						159	885.80	
415+77	LT. 60'	159	AP	21" APRON		891.36			885.80											885.80	RIPRAP
416+01	RT. 60'	160	AP	15" APRON		891.43			887.00		35								157	886.59	
417+29	RT. 60'	161	AP	15" APRON		892.07			887.50												DRIVEWAY CULVERT
417+75	RT. 60'	162	AP	15" APRON		892.30			888.00		34								161	887.50	DRIVEWAY CULVERT
421+16	RT. 58'	163	AP	15" APRON		891.22			887.40		30								164	887.10	DRIVEWAY CULVERT
421+58	RT. 58'	164	AP	15" APRON		891.02			887.10												DRIVEWAY CULVERT
421+75	RT. 55'	165	AP	15" APRON		890.99			887.00		21								166	886.75	
421+75	RT. 27.5'	166	CB	LP4-4	C	890.99		890.98	886.65		58								167	886.36	
421+75	LT. 27.5'	167	CB	LP4-5	C	890.99		890.98	886.16		22								168	885.80	
421+75	LT. 56'	168	AP	15" APRON		890.99			885.80												RIPRAP
424+27	LT. 57'	169	AP	30" APRON		892.19			885.80												RIPRAP
424+42	LT. 25.5'	170	CB	66-4020	B	892.27		891.68	885.90						27				169	885.80	
COUNTY ROAD I - EAST																					
26+99	RT. 25.5'	171	CB	66-4020	B	891.93		891.34	886.31						115				170	885.95	
26+99	LT. 25.5'	172	CB	SP-2	B	891.93		891.34	887.22		51								171	886.98	
27+07	RT. 49'	173	AP	15" APRON		891.87			887.50		17								171	887.04	
29+38	RT. 33'	174	MH	60-4020	A	890.53		890.0	887.10									239	171	886.36	
29+38	RT. 25.5'	175	CB	SP-2	B	890.53		889.94	887.53								7		174	887.49	
29+38	LT. 25.5'	176	CB	SP-2	B	890.53		889.94	887.78								51		175	887.58	
29+91	RT. 37'	177	MH	A OR F	A	889.93		890.26	887.31								53		174	887.15	
29+96	RT. 60'	178	AP	15" APRON		889.83			888.00		18								177	887.81	
30+08	LT. 29'	179	AP	15" APRON		889.73			888.10		63								176	887.82	
30+50	RT. 37'	180	AP	22"A-APRON		889.40			888.56								54		177	887.76	
LEXINGTON AVENUE																					
427+99	RT. 71'	181	AP	12" APRON		894.05			888.00	135									182	887.58	
428+32	LT. 67'	182	MH	A OR F	A	894.22		894.4	887.53						192				189	887.25	
428+43	LT. 63'	183	CB	SP-2	B	894.27		894.3	888.62		12								182	888.50	
428+86	LT. 63'	184	CB	SP-2	B	894.49		894.3	889.25		43								183	888.82	
429+26	LT. 25.5'	185	CB	SP-2	B	894.74		894.15	890.00		55								184	889.45	
429+26	RT. 25.5'	186	CB	SP-2	B	894.74		894.15	890.45		51								185	890.20	
431+67	LT. 25.5'	187	CB	SP-2	B	899.06		898.47	894.00		241								185	890.20	
431+67	RT. 25.5'	188	CB	SP-2	B	899.06		898.47	894.45		51								187	894.20	
COUNTY ROAD I - WEST																					
24+20	RT. 62'	76	CB	EXISTING		897.67		898.8	893.97		34								189	893.63	MAKE PROPER CONNECTION
23+97	RT. 34'	189	MH	A OR F	A	898.03		899.2	887.25						300				190	886.83	
20+97	RT. 28'	190	MH	A OR F	A	897.47		897.8	886.83						300				191	886.41	
17+98	RT. 28'	191	MH	A OR F	A	894.26		894.6	886.41						295				192	886.00	
15+03	RT. 18'	192	MH	A OR F	A	892.12		891.1	883.52							12			193	883.50	
15+03	RT. 36'	193	AP	36" APRON		892.12			883.49												RIPRAP

RIP-RAP CHART

LOCATION	STRUCTURE NUMBER	STRUCTURE SIZE INCHES	RIP RAP CL. IV CU. YD.	GRANULAR FILTER CU. YD
348+80	APRON 5	15	3.5	1.7
352+00	APRON 102	18	4.4	2.2
363+43	APRON 114	24	6.9	3.5
395+82	APRON 138	36	13.2	6.6
397+59	APRON 141	24	6.9	3.5
400+35	APRON 143	21	5.6	2.8
413+96	APRON 153	18	4.4	2.2
415+77	APRON 159	24	6.9	3.5
421+75	APRON 168	15	3.5	1.7
424+27	APRON 169	30	9.9	5.0
COUNTY ROAD I				
15+03	APRON 193	36	14.0	7.0
		TOTAL =	79.2	39.7

NOTE: RIPRAP SHALL BE INSTALLED PER STANDARD PLATE 3133 AND SPECIFICATION 3601, EXCEPT THAT A GRANULAR FILTER BLANKET(SPEC. 3601) AND GEOTEXTILE FABRIC(TYPE IV, SPEC. 3733) SHALL BE REQUIRED.

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

ESTIMATED QUANTITIES

GRANULAR FILTER 40 CY

GEOTEXTILE FILTER - TYPE IV 192 SY

REVISIONS	DATE	BY	REVISIONS	DATE	BY
Sta. 15+03, MH, Ap.	4/1/90	TL			
Sta. 15+03 Rip-Rap	4/1/90	TL			

S.A.P. 32-651-25

27-131

PROJECT=47391 ALT= 1 REV= 1 SGR=LEXDRN2 FORM= 0 DATE= 3/20/1990

CLEAR & GRUB CHART

STATION	LOCATION RT./LT.	DESCRIPTION	CLEAR TREE	GRUB TREE	CLEAR ACRE	GRUB ACRE
S.A.P. 62-651-25 LEXINGTON AVENUE						
356+35	LT. 32'	12" COTTONWOOD	1	1	0	0
362+90	LT. 29'	16" COTTONWOOD	1	1	0	0
362+50	LT. 82'	16" COTTONWOOD	1	1	0	0
363+05	LT. 33'	16" COTTONWOOD	1	1	0	0
363+06	LT. 44'	16" COTTONWOOD	1	1	0	0
363+07	LT. 62'	16" COTTONWOOD	1	1	0	0
363+10	LT. 80'	16" COTTONWOOD	1	1	0	0
363+33	LT. 76'	16" COTTONWOOD	1	1	0	0
364+95	LT. 76'	4" ASH	1	1	0	0
370+68	LT. 10'	24" COTTONWOOD	1	1	0	0
373+28	RT. 45'	10" CHINESE ELM	1	1	0	0
381+15	LT. 22'	6" ASH	1	1	0	0
382+22	LT. 42'	4"ASH	1	1	0	0
382+71	LT. 47'	4"ASH	1	1	0	0
382+78	LT. 80'	4"ASH	1	1	0	0
382+79	LT. 69'	4"ASH	1	1	0	0
382+86	LT. 83'	4"ASH	1	1	0	0
382+95	LT. 85'	4"ASH	1	1	0	0
386+96	LT. 48'	8" ELM	1	1	0	0
400+10	RT. 68'	FOUR 4" ELMS	4	4	0	0
400+30	RT. 70'	12" ELM	1	1	0	0
402+10	LT. 52'	16" COTTONWOOD	1	1	0	0
402+11	LT. 55'	16" COTTONWOOD	1	1	0	0
404+40	LT. 35'	FOUR 4" COTTONWOODS	4	4	0	0
405+35 - 403+55	LT. 50'-58'	THREE 4" COTTONWOODS	3	3	0	0
406+05 - 406+30	LT. 30'-40'	SIX 4" COTTONWOODS	6	6	0	0
409+22	LT. 21'	4" COTTONWOOD	1	1	0	0
409+82	LT. 19'	12" COTTONWOOD	1	1	0	0
410+11	LT. 20'	4" COTTONWOOD	1	1	0	0
410+55	LT. 20'	TWO 4" COTTONWOODS	2	2	0	0
411+10	LT. 17'	8" COTTONWOOD	1	1	0	0
411+20	LT. 20'	8" COTTONWOOD	1	1	0	0
429+70	LT. 18'	TWO 12" COTTONWOODS	2	2	0	0
429+70	LT. 18'	18" COTTONWOOD	1	1	0	0
349+75 - 351+30	RT.	WOOD (WILLOWS)			0.020	0.020
352+20 - 352+30	LT.	WOODS (COTTONWOODS)			0.040	0.040
357+30 - 362+65	LT.	WOODS			0.610	0.610
361+20 - 362+55	RT.	WOODS (ELMS)			0.020	0.020
370+26 - 372+45	LT.	WOODS			0.310	0.310
372+45 - 373+30	LT.	WOODS			0.030	0.030
381+00 - 381+70	RT.	WOODS (CONIFERS)			0.020	0.020
389+50 - 395+22	LT.	WOODS			0.280	0.280
395+60 - 397+30	LT.	WOODS			0.060	0.060
398+00 - 401+30	LT.	WOODS			0.140	0.140
397+75 - 398+65	RT.	WOODS			0.010	0.010
406+20 - 407+95	RT.	WOODS			0.140	0.140
408+80 - 413+80	LT.	WOODS			0.146	0.146
413+20 - 413+80	RT.	WOODS			0.010	0.010
420+25 - 424+60	LT.	WOODS			0.402	0.402
418+80 - 420+50	RT.	WOODS			0.024	0.024
423+70 - 424+55	RT.	WOODS			0.010	0.010
		TOTALS =	49	49	2.3	2.3

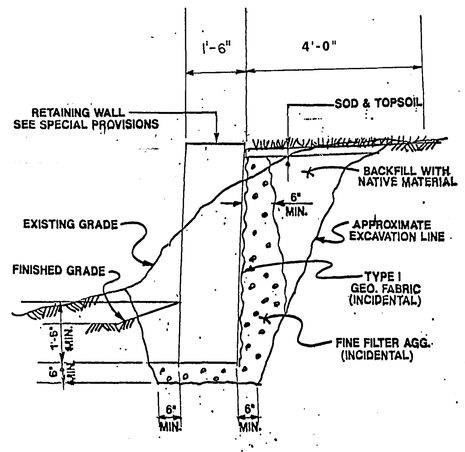
NOTE: STATIONS WITH AN (*) BEFORE THEM INDICATES TREE THAT IS TO BE REMOVED ONLY IF NECESSITATED BY CONSTRUCTION. (TO BE DETERMINED IN THE FIELD)

MISC. REMOVALS & SALVAGES

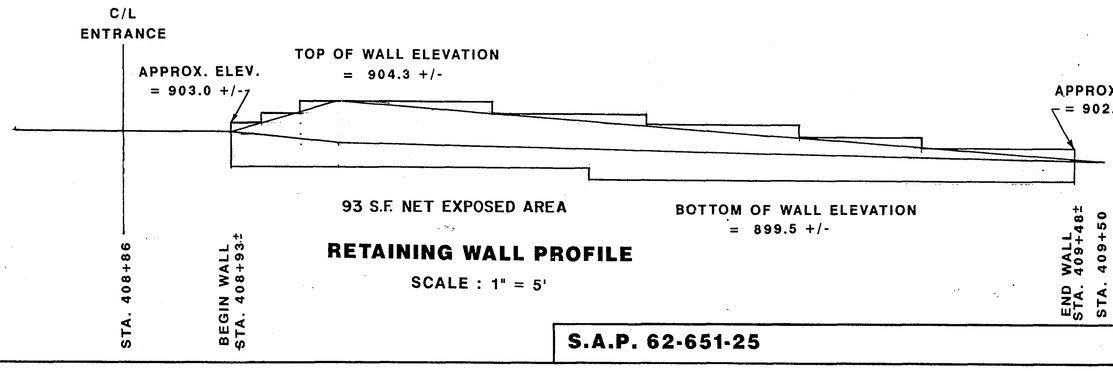
LOCATION	STRUCTURE NUMBER	REMOVE CONC. WALK SQ. FT.	REMOVE CURB & GUTTER LIN. FT.	REMOVE CONCRETE PAVEMENT SQ. YD.	REMOVE CB OR MH EACH	REMOVE RC PIPE SEWERS LIN. FT.	REMOVE RC PIPE CULVERTS LIN. FT.	REMOVE CM PIPE CULVERTS LIN. FT.	SALVAGE CASTING ASSEMB. EACH	REMARKS
LEXINGTON AVENUE										
346+45 RT.		110								
397+25	AP 30 TO AP 31							90		
415+65 TO 415+70	AP 46 TO AP 47							62		
424+90 TO 425+52	AP 52 TO AP 55							62		INCLUDE APRON
425+72 TO 426+03	AP 56 TO AP 57							32		
428+35 TO 428+87	AP 64 TO AP 65							62		
397+87 TO 397+93	AP 32 TO AP 33						100			
414+95 TO 415+37	AP 43 TO AP 45						42			INCLUDE APRON
426+48 TO 427+08	AP 59 TO AP 60						60			INCLUDE APRON
427+35 LT.							8			
356+18 TO 357+58	AP 9 TO MH 10					140				INCLUDE APRON
357+60 TO 357+60	MH 10 TO CB 11					20				
357+60 TO 357+90	CB 11 TO CB 12					30				
362+35 TO 394+48	CB 15 TO AP 16					60				
363+06 TO 363+10	CB 18 TO AP 19					60				
394+48 TO 394+72	AP 26 TO CB 27					24				INCLUDE APRON
394+72 TO 395+02	CB 27 TO CB 28					30				
395+02 TO 395+17	CB 28 TO AP 29					26				
400+13 TO 400+35	AP 35 TO MH 37					33				INCLUDE APRON
400+88 TO 400+45	AP 40 TO MH 37					42				
COUNTY RD. I (EAST)										
29+92 TO 30+32	AP 78 TO AP 79							40		
357+57 - RT. 40'	MH 10				1				1	
ROBIN HOOD PLACE										
357+60 - RT. 60'	CB 11				1				1	
357+92 - RT. 60'	CB 12				1				1	
JOHN'S ROAD										
362+35 - RT. 38'	CB 15				1				1	
363+05 - RT. 38'	CB 18				1				1	
LAKE OAKS DRIVE										
394+73 - RT. 55'	CB 27				1				1	
395+03 - RT. 55'	CB 28				1				1	
400+39 - RT.			16							LAKE BEACH RD.
426+75 - LT.			130							FIRE STATION
COUNTY RD. I (WEST)										
22+50 - RT.			72							FIRE STATION
24+70 - RT.			72							FIRE STATION
15+03 - RT.								12		INCLUDE APRON
409+92 - RT.				20						
	TOTALS =	110	290	20	7	465	210	348	7	

SILT FENCE CHART

STATION TO STATION	LOCATION RT./LT.	LF
S.A.P. 62-651-25 LEXINGTON AVENUE		
346+50 TO 372+50	LT.	2600
377+00 TO 380+50	LT.	350
383+00 TO 401+50	LT.	1850
412+00 TO 425+25	LT.	1325
346+50 TO 353+00	RT.	650
357+75 TO 358+50	RT.	75
375+80 TO 377+00	RT.	120
377+50 TO 378+50	RT.	100
406+25 TO 408+25	RT.	200
413+25 TO 424+75	RT.	1150
425+50 TO 429+50	RT.	400
434+25 TO 435+00	RT.	75
COUNTY ROAD I - EAST		
27+00 TO 30+00	RT.	300
COUNTY ROAD I - WEST		
15+00 TO 17+00	RT.	200
	TOTAL =	9395



TYPICAL SECTION
RETAINING WALL



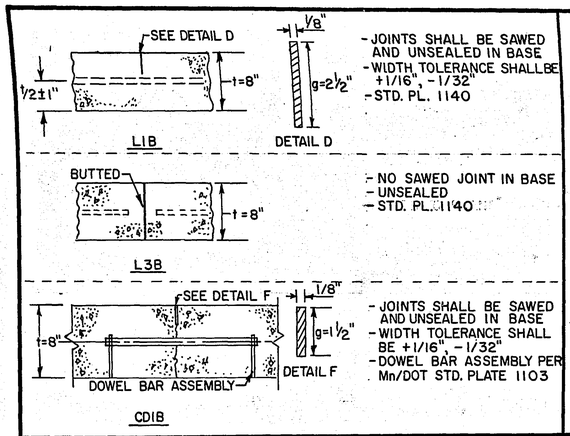
RETAINING WALL PROFILE
SCALE : 1" = 5'

DATE	REVISION
5/31	PRECAST WALL DETAILS
6/1	REMOVE 12 LF CMP

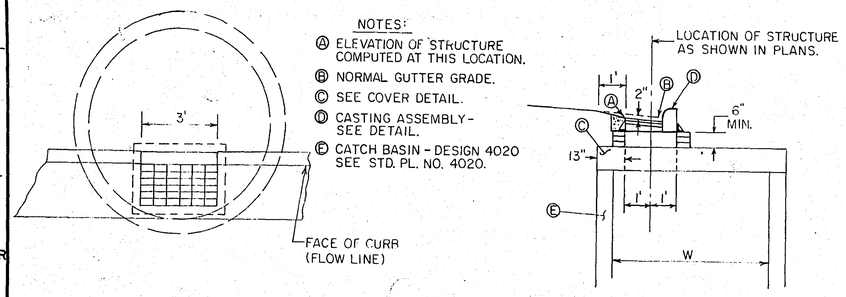
S.A.P. 62-651-25

27-131

PROJLCL=4/7991 ALL= 1 REV= 1 SGN=LEX031 HORM= 0 DATE= 3/20/1990



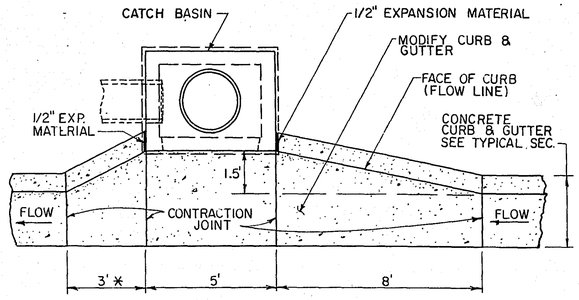
CATCH BASIN-DESIGN 66-4020



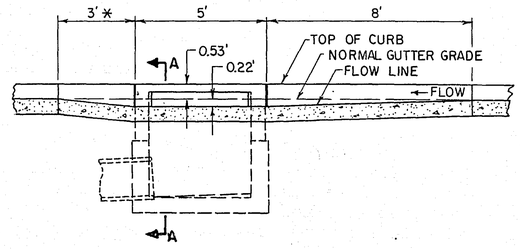
NOTES:

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

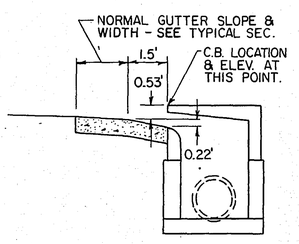
CURB OPENING CATCH BASIN - DESIGN LP INSTALLATION DETAIL



PLAN VIEW



ELEVATION (AT FLOW LINE)

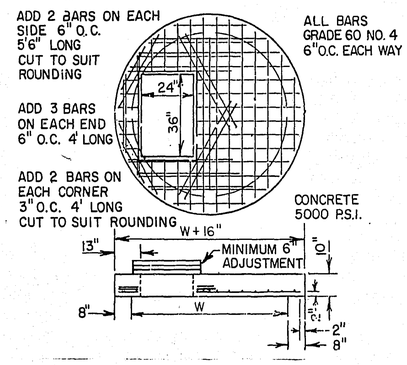


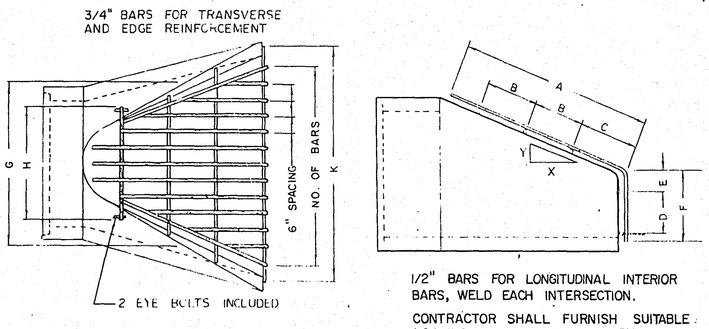
SECTION A-A

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. 4021
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.

MANHOLE & CATCH BASIN COVER SLAB DESIGN W-4020





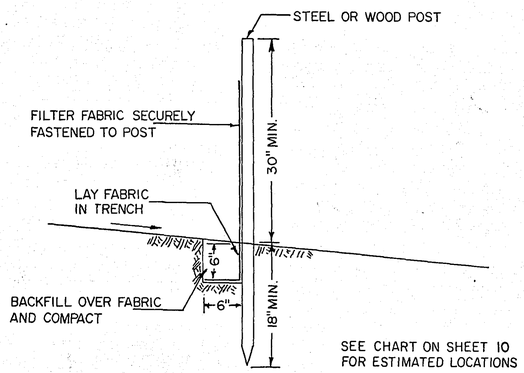
½" BARS FOR LONGITUDINAL INTERIOR BARS, WELD EACH INTERSECTION.

CONTRACTOR SHALL FURNISH SUITABLE LOCKING DEVICE APPROVED BY ENGINEER.

SIZE	NO. OF BARS	SLOPE	A	B	C	D	E	F	G	H	K
12"	5	3 to 1	24	7	6	5	2	8	24		30
15"	6	"	24	7	6	6	2	10	26		34
18"	7	"	24	7	6	6	3	12	28		40
21"	8	"	36	11	10	7	3	12	34		50
24"	9	"	44	14	12	10	4	16	36		52
27"	10	"	50	16	14	10	4	16	38		58
30"	11	"	56	18	16	12	4	18	42		64
36"	13	"	64	20	20	12	4	18	48		76
42"	15	"	68	22	20	16	8	26	60		88
48"	16	"	76	24	24	14	10	28	62		92
54"	17	2:1 to 1	76	24	24	10	12	32	68		96
44" SPAN	13	3 to 1	61	20	17	6	4	14	48		76

TRASH GUARD (GALVANIZED)
(FOR CONCRETE APRON)

SILT FENCE INSTALLATION



SEE CHART ON SHEET 10 FOR ESTIMATED LOCATIONS

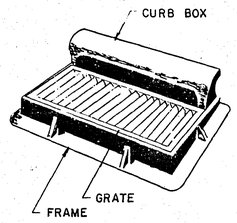
CASTING ASSEMBLY
(FOR DESIGN SPECIAL 2 CATCH BASIN)

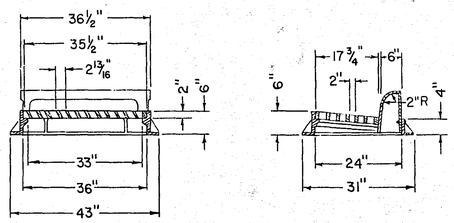
NOTES:

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

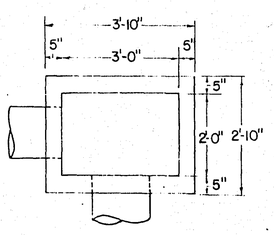
CURB BOX HEIGHT SHALL BE ADJUSTABLE 6" TO 9"

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

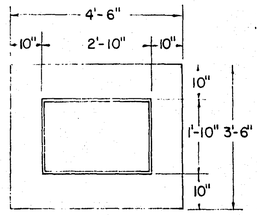




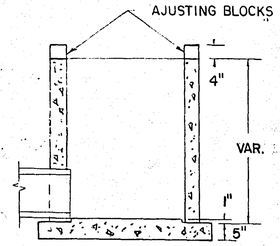
CATCH BASIN - DESIGN SPECIAL 2



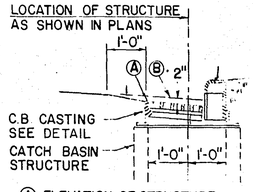
CATCH BASIN PLAN



BASE SLAB PLAN



SECTIONAL VIEW
CATCH BASIN & BASE SLAB



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

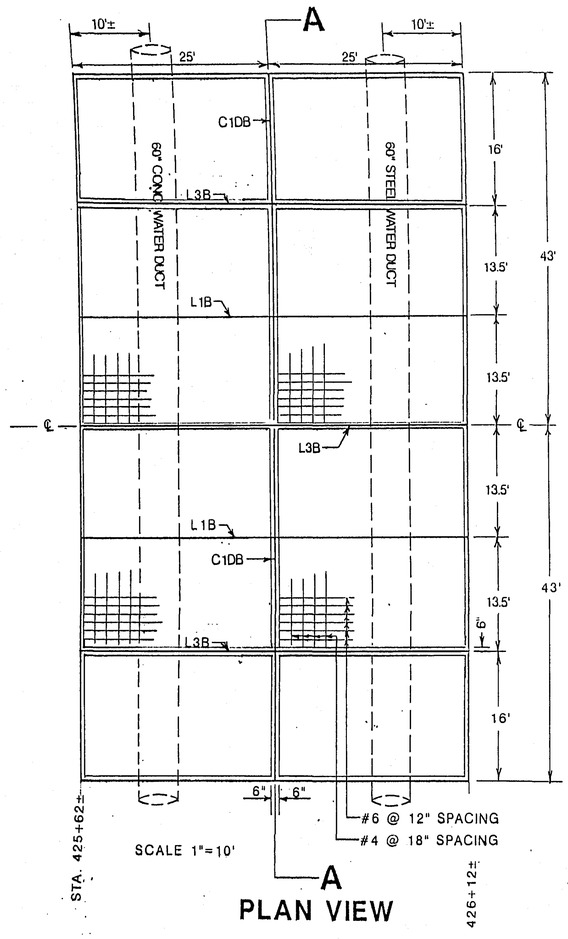
INSTALLATION DETAIL

STRUCTURE NOTES

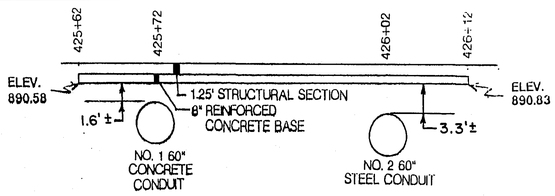
1. TO BE USED WITH NEENAH R-3067-V OR EQUAL.
2. PIPE CUT-OUTS TO BE LOCATED WHERE REQUIRED.
3. ALTERNATE CAST-IN-PLACE BASE SLAB CAN BE USED.
4. INSTALL AS PER MN/DOT STANDARD PLATE NO. 7111
5. REINFORCING: SINGLE LINE STEEL WIRE FABRIC.
   WALL = W3.5 X W3.0 HAVING AN AREA OF NOT LESS THAN .21 SQ. IN.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

STORM SEWER DETAILS

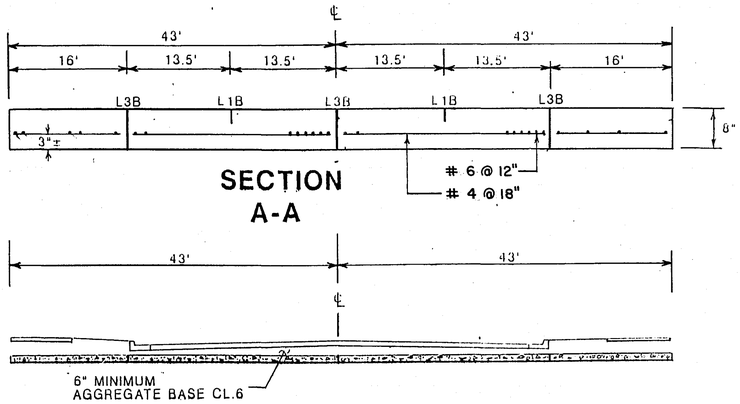
27-131



A
PLAN VIEW



PROFILE VIEW



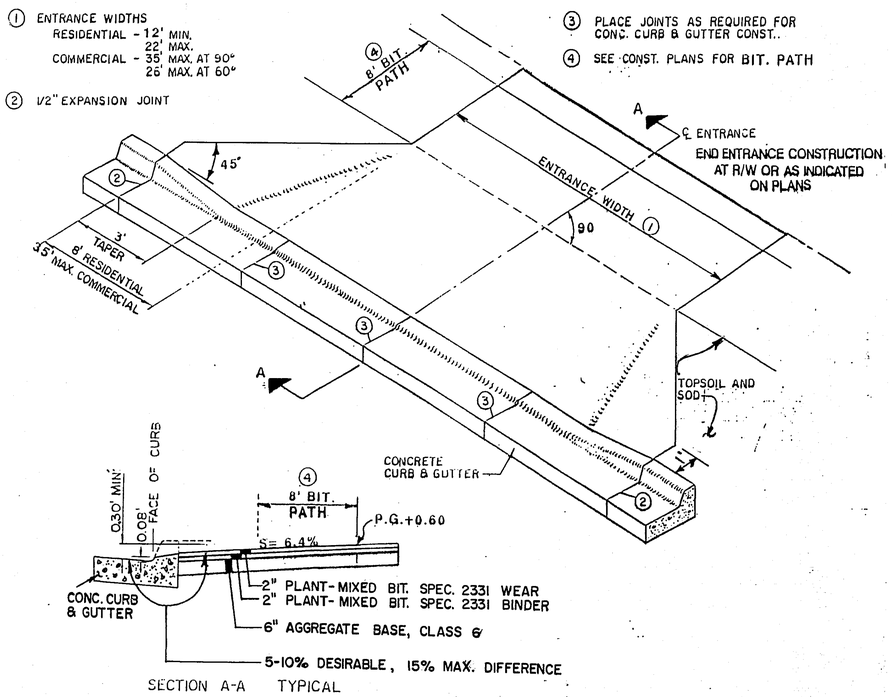
SECTION A-A

CONCRETE BASE SLAB OVER WATER CONDUITS

PAYMENT SHALL BE AS ITEM NO. 2411.507 CONCRETE BASE SLAB BY THE EACH, WHICH SHALL BE PAYMENT IN FULL FOR ALL WORK AND MATERIALS REQUIRED.

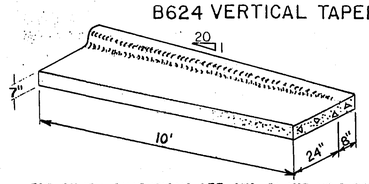
ESTIMATED QUANTITIES
FOR INFORMATION ONLY
SEE SHEET NO. 11 FOR JOINT DETAILS

CONCRETE BASE	478 SY.
STRUCTURAL CONC.	107 CY.
#4 REINFORCEMENT BARS	2220 LB.
#6 REINFORCEMENT BARS	5768 LB.
L3B JOINT	150 LF.
L1B JOINT	100 LF.
C1D JOINT	86 LF.



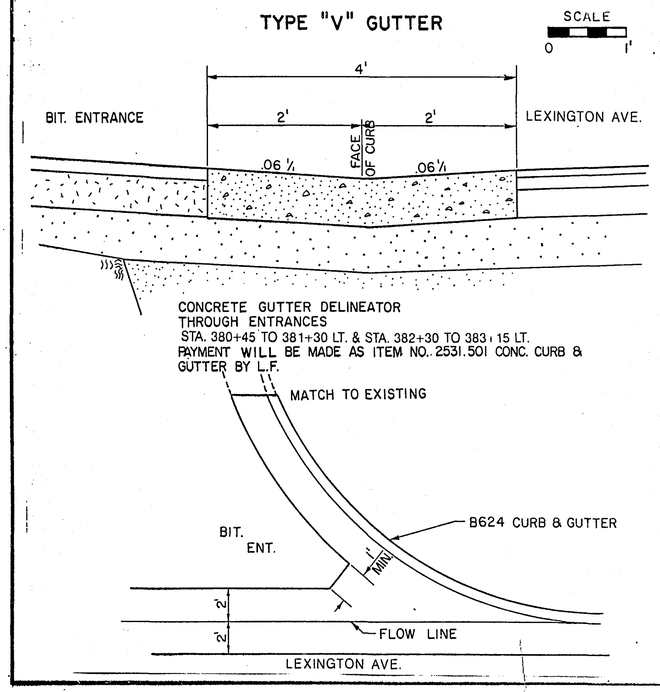
SECTION A-A TYPICAL
BITUMINOUS

B624 VERTICAL TAPER

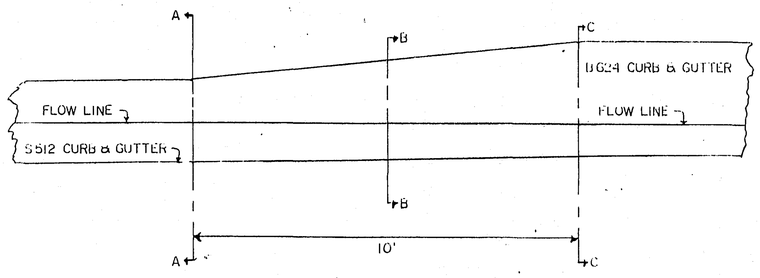


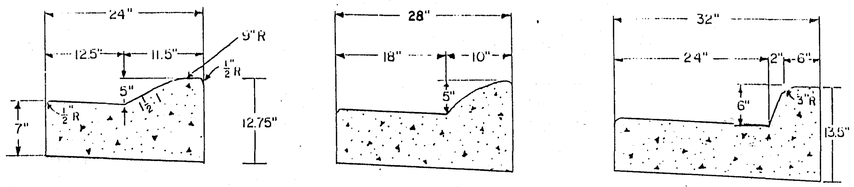
FOR OTHER DIMENSIONS SEE STD. PLATE NO. 7100

TYPE "V" GUTTER



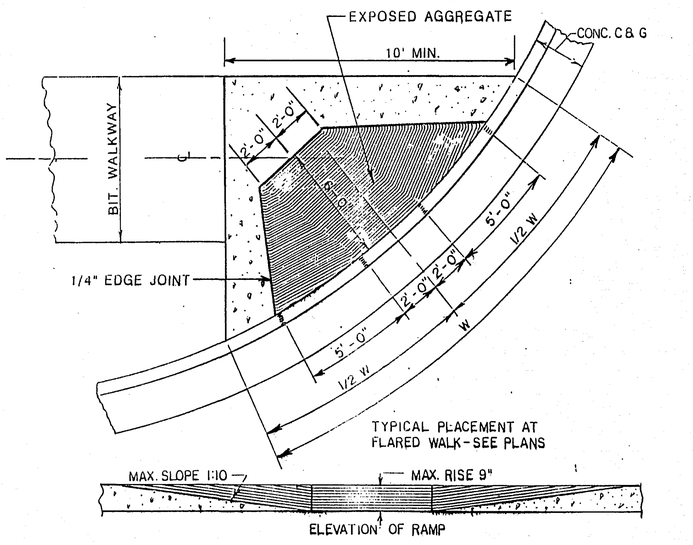
CURB TRANSITION — B624 C&G TO S512 C&G





SECTION A-A SECTION B-B SECTION C-C

PEDESTRIAN CURB RAMP DETAIL



CONSTRUCT PEDESTRIAN CURB RAMPS AT ALL STREET RADII - REFERENCE STANDARD PLATE NO. 7036

ENTRANCE & CURB RAMP DETAIL

SCALE

0 50 100 200 300

LEXINGTON AVE. STA. 346+14.33
TANGLEWOOD DR. STA. 0+00.00
X=560931.56
Y=207749.26

LEXINGTON AVE. STA. 349+05.01
Δ=0-17-41.9 LT
X=560928.41
Y=208039.92

N 1° 0 37 15.3 W 290.68'

N 0,54 57.2 W 872.08'

LEXINGTON AVE. STA. 357+77.09
ROBINHOOD PLACE STA. 0+00.00
Δ=0-17-44.2 RT
X=560914.47
Y=208911.89

N 0 37 12.8 W 2633.30'

LEXINGTON AVE. STA. 362+78.14
JOHN'S ROAD STA. 0+00.00
X=560909.07
Y=209412.90

N 0 37 15.0 W 1470.56'

LEXINGTON AVE. STA. 372+47.64
Δ=0-14-19.2 LT
X=560898.55
Y=210382.36

N 0 51 32.2 W

N 0 51 32.5 W

15/14

X=560943.558
Y=207749.393

T. 30N. R. 23W. 10 11 15 14 T. 30N. R. 23W.

X=560915.053
Y=210382.537

LEXINGTON AVE. STA. 380+91.90
KIMBERLY LANE STA. 0+00.00
X=560885.89
Y=211226.66

LEXINGTON AVE. STA. 390+86.91
NELSON DRIVE STA. 0+00.00
X=560870.98
Y=212221.48

LEXINGTON AVE. STA. 394+87.02
LAKE OAKS DRIVE STA. 0+00.00
X=560864.98
Y=212621.23

LEXINGTON AVE. STA. 398+88.59
Δ=0-12-34.1 RT
X=560858.960
Y=213023.010

LEXINGTON AVE. STA. 400+53.32
LAKE BEACH DR. STA. 0+00.00
X=560857.89
Y=213187.84

LEXINGTON AVE. STA. 401+87.67
TCAAP ENT. STA. 0+00.00
X=560855.57
Y=213322.09

N 0 51 32.2 W

N 0 51 32.5 W

2640.95'

N 0 38 58.1 W

N 0 38 58.0 W

10/11

X=560875.458
Y=213023.261

LEXINGTON AVE. STA. 415+18.83
LAKE AVENUE STA. 0+00.00
X=560840.46
Y=214653.25

LEXINGTON AVE. STA. 425+24.62
COUNTY RD. I STA. 26+24.75
Δ=0-03-48.8 LT
X=560829.08
Y=215658.87

LEXINGTON AVE. STA. 428+65.20
COUNTY ROAD I STA. 26+62.15
X=560824.84
Y=215999.59

LEXINGTON AVE. STA. 434+07.55
ROYAL OAKS DRIVE STA. 0+00.00
X=560817.84
Y=216541.88

N 0 38 58.1 W

N 0 38 58.0 W

2636.03'

S 89° 39' 32.4" W

26

N 0 42 46.9 W

N 0 42 47.0 W

N 89° 22' 29" E

27

T. 30N. R. 23W. 2 3 10 11 T. 30N. R. 23W.

X=560845.580
Y=215659.060

S.A.P. 62-651-25 **SHEET 13 OF 70 SHEETS**

27-131

EXISTING 24" CMP'S
INLET 890.0

TWIN CITIES ARMY AMMUNITION PLANT

GRADE TO DRAIN

BIT. PATH-FUTURE

CONST. LIMITS

ARDEN HILLS

+25 P.I. DITCH

SEDIMENT POND NO. 1 EL. 890.0±
(SEE SHEET NO. 5 & X-SECTIONS)

EL. 890.0

RIPRAP

AP 102

DITCH GRADE = +1.5%

SCALE 0' 30' 100'

EXISTING BIT. PATH
REMOVE & REPLACE BIT. PATH FOR SIGNAL SYSTEM REVISIONS. PAYMENT SHALL BE MADE AS APPROPRIATE PAY ITEMS FOR BIT. PATH CONSTRUCTION

AP 1

AP 5

RIPRAP

(+50 P.I.)

FUTURE BIT. PATH (A)

BEGIN B624 C&G
STA. 346+80

F & I. 1.25" RSC

HH-4A

HH-5A

LEXINGTON AVE STA. 349+05.00
= 0°07'45" LT.

CLEAR & GRUB BY THE ACRE

LEXINGTON AVE. STA. 346+14.33
TANGLEWOOD DR. STA. 0+00.00

REMOVE EXISTING BIT.

1.25" RSC-INPLACE (B)(C)

CB 101

1.25" RSC INPLACE (B)(C)

(D) 6'X6' LOOP

LEXINGTON AVE

CONSTRUCTION ℄

SECTION LINE

B624 C&G

CB 103

CB 104

347 348 349 350 351 352 353 354 355

BEGIN S.A.P. 62-651-25
STA. 346+38.33

CB 4

BEGIN B624 C&G
STA. 349+05

8' BIT. PATH

+75 CONSTRUCT DITCH BLOCK

MH 6

MH 7

MH 8

EXIST. 9" SANITARY SEWER

AP 3

CONST. LIMITS

CONSTRUCT 4" CONC. WALK (100 SF.)
MATCH TO EXISTING RT. 62'±

(5) MILL BITUMINOUS SURFACE TO A DEPTH OF 1" FROM STA. 346+60+/- TO STA. 349+05 OVERLAY WITH 1" 2361 WEAR.

PROTECT ALL TREES WITHIN SLOPE ESMT.

SHOREVIEW

LEGEND
(1) SAWCUT BITUMINOUS
(2) SAWCUT CONCRETE
(5) REMOVE EXISTING CONC. WALK
(4) CONSTRUCT PED. CURB RAMP PER DETAIL SHEET 12
(5) MILL BITUMINOUS

REVISE SIGNAL SYSTEM

(A) REMOVE & SALVAGE H.H.-4A & H.H.-5A REINSTALL BACK OF NEW CURB
(B) REMOVE & SALVAGE INPLACE 1.25" RSC
(C) REMOVE 2-2/C #14 CABLES FROM INPLACE RSC AND COIL IN H.H.-3A - REINSTALL IN NEW RSC TO H.H.-5A
(D) F & I 6' X 6' LOOP DETECTORS MN/DOT STANDARD PLATE 8130

DITCH BLOCK PROFILE

+73.76
894.0
33'
C.S.
893.1±
PROFILE 55' RT. (SEE X-SECTIONS)
893.6±
CB 101
AP 5
PLACE RIPRAP
AP 102
893.12
892.20
891.78
891.71
BUILD CB 101 OVER EXISTING PIPE
199 LF 18" RCP Δ 1.36 + 8' APRON
894.66
894.35
895.00
894.94
51 LF 18" RCP Δ 1.0

910 905 900 895 890 885

PVC +50.00 EL 895.20
PVT +80.00 EL 895.12
50 FT VC
M= 0.08
-00.800%
+00.500%
PVC +25.00 EL 896.75
100 FT VC
M= 0.19
PVT +25.00 EL 896.00
+02.000%
MH 6
MH 7
MH 8
CB 103
CB 104

STA. 346+70
BEGIN MUCK EXCAVATION
LT. SIDE ONLY

MUCK EXCAVATION
LEFT SIDE ONLY
SEE X-SECTIONS

891.8±
PVT +75.00
EL 895.08
LOW POINT EL 895.08
+80.77

BEGIN FULL WIDTH MUCK EXCAVATION
STA. 349+05
SEE X-SECTIONS

20:1
As Built
MUCK EXCAVATION PROFILE 27' RT. PG = -2.73'
MUCK EXCAVATION PROFILE 8' LT. PG = -4.50'
MUCK EXCAVATION PROFILE 11' LT.
884.9
As Built
MUCK EXCAVATION
Profile 8' Lt
EXISTING 8" SANITARY SEWER

PVT +15.00
EL 897.70
886.1
As Built
MUCK EXCAVATION 8' Lt

BEGIN 1' SUBCUT FOR UNIFORMITY AND COMPACTION
STA. 353+00
END MUCK EXCAVATION
895.28
895.08
889.7

346 347 348 349 350 351 352 353 354

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: [illegible]
DATE: 1/29/91

PROJECT=47391 ALT= 1 REV= 1 SGR=GRID FORM=FORMAT1 DATE= 3/27/1990

S.A.P. 62-651-25

SHEET 14 OF 70 SHEETS

27-131

TWIN CITIES ARMY AMMUNITION PLANT

SCALE 0' 30' 100'

CONST. LIMITS

LEXINGTON AVE. STA. 357+77.09 = 0 07'45" RT.
ROBINHOOD PLACE STA. 0+00.00

CLEAR & GRUB BY THE ACRE

FUTURE BIT. PATH

B624 C&G

356 LEXINGTON AVE. 357 CONSTRUCTION ℄ 358 359 360 361 362 363 364

SECTION LINE

CB 105 CB 106 CB 107 CB 108 CB 109 CB 110 CB 111 CB 112 CB 113

AP 9 AP 16 AP 19

REMOVE

8' BIT. PATH

EXIST. 9" SANITARY SEWER

EX. 15" RCP

MH 10 MH 13 MH 14 MH 17

CB 1 CB 12 CB 15 CB 18

PROTECT

CONST. LIMITS

BIT.

ROBINHOOD PLACE

END B624 C&G WITH CURB TRANSITION RT. 72' SEE DETAIL SHEET 12

LEGEND
1. SAWCUT BIT.
2. SAWCUT CONCRETE
4. CONSTRUCT PED. CURB RAMP PER DETAIL SHEET 12

ARDEN HILLS

SEDIMENT POND NO. 2

RIPRAP

AP 114

LEXINGTON AVE. STA. 362+78.14
JOHN'S ROAD STA. 0+00.00

REMOVE EXISTING BITUMINOUS
PLACE TOPSOIL & SOD AS DIRECTED

JOHN'S ROAD

END B624 C&G RT. 72' WITH VERTICAL TAPER SEE DETAIL SHEET 12

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABC
DATE: 11/29/91

29 30 LF 15" RCP Δ1.0%
89 90 LF 15" RCP Δ1.0%
145 LF 15" RCP Δ 2.00
280 LF 15" RCP Δ 2.00
59' 90 LF 15" RCP Δ 0.50
59' 90 LF 24" RCP Δ 1.50
50' 55 LF 24" RCP Δ 1.81 + APRON
8 LF 15" RCP STUB Δ 5.0 PLUG AS DIRECTED
33' 30 LF 24" RCP Δ 1.0
54' 90 LF 24" RCP Δ 1.00

PVC +25.00 EL 902.00
PVT +75.00 EL 903.12
PVC +90.00 EL 906.00
PVI +00.00 EL 911.25
HIGH POINT +90.00 EL 909.75
PVT +10.00 EL 909.15
PVC +62.50 EL 907.62
LOW POINT +13.38 EL 907.23
PVI 100.00 EL 906.25

50 FT VC M= 0.03
420 FT VC M= 1.84
275 FT VC M= 1.17

+02.500%
+02.000%
-01.000%

EXISTING PROFILE CONSTR. ℄
PROPOSED PROFILE CONSTR. ℄
1' SUBCUT FOR UNIFORMITY & COMPACTION
EXISTING 15" DIP WATERMAIN
EXISTING 8" SANITARY SEWER
EXISTING 24" SANITARY SEWER

915 910 905 900 895 890

355 356 357 358 359 360 361 362 363

S.A.P. 62-651-25 SHEET 15 OF 70 SHEETS

27-131

PROJECT=47391 ALT= 1 REV= 1 SGR=GRID FORM=FORMAT1 DATE= 3/27/1990

TWIN CITIES ARMY AMMUNITION PLANT

ARDEN HILLS

SHOREVIEW

CONST LIMITS

SCALE 0' 30' 100'

(+50 P.I. BIT. PATH) (FUTURE)

(+50 P.I. BIT. PATH) (FUTURE)

FUTURE BIT. PATH

LEXINGTON AVE. STA. 372+47.64

CLEAR & GRUB BY THE ACRE

133'

8' 8'

B624 C&G

CB 116

CB 115

364 365 366 367 368 369 370 371 372 373

CONSTRUCTION ℄

SECTION LINE

LEXINGTON AVE.

28' 10.5'

8' BIT. PATH

49.5'

MH 20

MH 21

MH 22

MH 23

EXIST. 9" SANITARY SEWER

PROTECT

BIT.

CONST. LIMITS

LEGEND

① SAWCUT BITUMINOUS

925 920 915 910 905 900 895

PVT +37.50 EL 909.55

PVC +00.00 EL 911.69

PVT +50.00 EL 912.25

CB 116 PVT +66.00 EL 913.20

PVC +12.50 EL 915.34

PVI +37.50 EL 917.71

HIGH POINT +10.44 EL 917.22

PVT +62.50 EL 917.09

+02.400%

+01.899%

00.499%

EXISTING PROFILE CONST ℄

PROPOSED PROFILE CONST ℄

100 FT VC M= 0.06

250 FT VC M= 0.75

351 LF 18" RCP @ 1.01

51 LF 15" RCP @ 0.50

907.80 907.09

907.40 907.11

906.50 907.45

907.10

908.00

002.10

EXISTING 16" DIP WATERMAIN

EXISTING 8" SANITARY SEWER

1' SUBCUT FOR UNIFORMITY AND COMPACTION

DATE REVISIONS

6/31 ENTRANCE @ STA. 370+50± DEM

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: AE

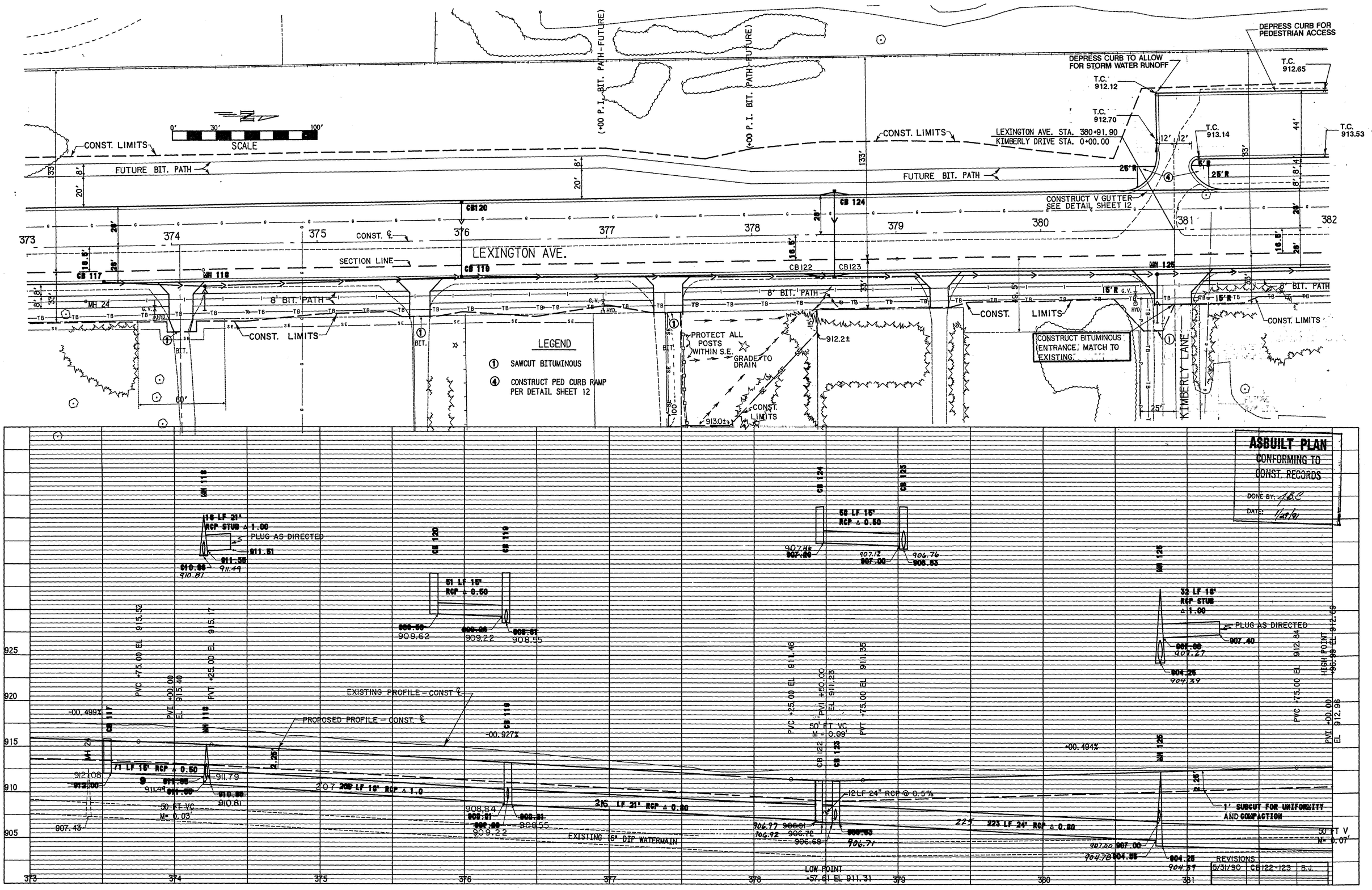
DATE: 1/23/91

PROJECT=47391 ALT= 1 REV= 1 SGR=GRID FORM=FORMAT1 DATE= 3/28/1990

S.A.P. 62-651-25

SHEET 16 OF 70 SHEETS

27-131



REVISIONS

5/31/90	CB122-123	B.J.

PROJECT-47391 ALT- 1 REV- 1 SCR-GRID FORM-FORMAT1 DATE- 3/28/1990

S.A.P. PROJECT SHEET 17 OF 70 SHEETS

27-131

PROJECT-47391 ALT- 1 REV- 1 SSR-GRID FORM-FORMAT1 DATE- 3/28/1990

DEPRESS CURB TO ALLOW FOR STORM WATER RUNOFF

T.C. 912.20

T.C. 912.78

T.C. 913.26

25'R

CONSTRUCT 1' GUTTER (SEE DETAIL SHEET 12)

CONSTRUCTION ℄

SECTION LINE

SCALE 0' 30' 100'

TWIN CITIES ARMY AMMUNITION PLANT

CONST. LIMITS

CLEAR & GRUB BY THE ACRE

ARDEN HILLS

LEXINGTON AVE. STA. 390+86.91
NELSON DRIVE STA. 0+00.00

FUTURE BIT. PATH

B624 C&G

LEXINGTON AVE.

8' BIT. PATH

CB 126A

CB 127

CB 126

CB 130

CB 129

CB 131

MH 126

MH 25

382 383 384 385 386 387 388 389 390 391

STA. 382+75
15 L.F. 1" COPPER SERVICE
& CURB STOP BOX ASSEMBLY

STA. 384+25
15 L.F. 1" COPPER SERVICE
& CURB STOP BOX ASSEMBLY

STA. 386+00
15 L.F. 1" COPPER SERVICE
& CURB STOP BOX ASSEMBLY

SHOREVIEW

PROTECT

LEGEND

① SAWCUT BITUMINOUS

④ CONSTRUCT PED RAMP PER DETAIL SHEET 12

END B624 C&G RT. 68' WITH 5' VERTICAL TRANSITION SEE DETAIL SHEET 12

NELSON DRIVE

PVT -25.00 EL 912.80

PVT -75.00 EL 908.71

PVC +50.00 EL 908.87

PVT +100.00 EL 909.39

-00.63%

-01.65%

EXISTING PROFILE - CONST. ℄

PROPOSED PROFILE - CONST. ℄

1' SUBCUT FOR UNIFORMITY FOR COMPACTION

290 LF 30" RCP Δ 0.50
285

240 LF 30" RCP Δ 0.50
244

208 LF 30" RCP Δ 0.50

202 LF 30" RCP Δ 0.80

51 LF 15" RCP Δ 0.50

18 LF 18" RCP Δ 0.80

PLUG AS DIRECTED

57 LF 15" RCP Δ 0.50

90 LF 15" RCP Δ 1.0

52 LF 15" RCP Δ 0.5

50 FT VC
M= 0.06

EXISTING 16" DIP WATERMAIN

902.81 903.03
902.78 902.93
901.00 901.63
901.40 901.53
905.93 905.50
905.79 906.23
905.00 905.93
901.53 901.40
904.00
900.17
904.18
900.37
901.00 901.12
900.75
901.14 900.84
898.31 898.24
903.74 901.80
901.84 902.00 903.01
901.14 900.81
900.75
898.51 898.54
898.31 898.24
901.40

DATE REVISIONS
6/1 1" COPPER WATER SERVICES PCH

AS-BUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: A.B.C.
DATE: 1/20/91

S.A.P. 82-601-23 SHEET 18 OF 70 SHEETS

27-131

TWIN CITIES ARMY AMMUNITION PLANT

SCALE 0' 30' 100'

CONST. LIMITS

CLEAR & GRUB BY THE ACRE

LEXINGTON AVE. STA. 394+67.02
LAKE OAKS DRIVE STA. 0+00.00

FUTURE BIT. PATH

B624 C&G

CONSTRUCTION ℄

SECTION LINE

8' BIT. PATH

PROTECT G.V.

REMOVE

12" CRABAPPLE

SHOREVIEW

LAKE OAKS DR.

50'

END B624 C&G RT. 72' WITH VERTICAL TRANSITION SEE DETAIL SHEET 12

END B624 C&G RT. 72' WITH VERTICAL TRANSITION SEE DETAIL SHEET 12

ARDEN HILLS

(SEE SHEET NO. 5 & X-SECTIONS)

LEXINGTON AVE. STA. 398+88.59

LEXINGTON AVE.

GRADE TO DRAIN TO SD 142 (SEE X-SECTIONS)

EXIST. DRAINAGE ESM'T.

EXIST. 18" RCP

EXIST. 12" RCP

LEGEND

① SAWCUT BITUMINOUS

④ CONSTRUCT PED RAMP PER DETAIL SHEET 12

391 392 393 394 395 396 397 398 399 400

AP 26 AP 29 AP 30 AP 31 AP 32 AP 33 AP 34 AP 138 AP 141

CB 132 CB 133 CB 134 CB 135 CB 136 CB 137 CB 138 CB 139 CB 140 CB 142

CB 27 CB 28 MH 137 MH 23

SD 142

PVC +75.00 EL 903.73
PVI +00.00 EL 903.32
PVT +25.00 EL 902.84

-01.659%

50 FT VC M= 0.02

EXISTING PROFILE - CONST. ℄

PROPOSED PROFILE - CONST. ℄

1' SUBCUT FOR UNIFORMITY AND COMPACTION

40 LF 30" RCP Δ 1.50

EXISTING 16" DIP WATERMAIN

51 LF 15" RCP Δ 0.50

-01.929%

96 LF 30" RCP Δ 1.00

82 LF 30" RCP Δ 0.70 + APRON

66 LF 15" RCP Δ 1.00

32 LF 15" RCP Δ 0.50

PVC +35.00 EL 894.93

31 LF 24" RCP Δ 0.40 + APRON

59 LF 22" SPAN ARCH Δ 0.80

200 FT VC M= 0.73

PVT +35.00 EL 893.98

+00.980%

32 LF 15" RCP Δ 1.10

20 LF 12" RCP Δ 1.00

REMOVE APRON & MAKE SUITABLE CONNECTION

EXISTING 12" RCP

LOW POINT +67.60 EL 893.60

PVT +35.00 EL 893.00

AS BUILT MUCK EXCAVATION

END UNIFORMITY & COMPACTION
BEGIN MUCK EXCAVATION
STA. 395+00.00

EXISTING 16" DIP WATERMAIN

EXISTING 16" DIP WATERMAIN

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: ABC
DATE: 3/4/91

PROJECT=47391 ALT= 1 REV= 1 SCR=GRID FORM=FORMAT1 DATE= 3/28/1990

S.A.P. 62-651-23

SHEET 19 OF 70 SHEETS

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LEXINGTON AVE. STA. 400+53.32
LAKE BEACH DR. STA. 0+00.00
LEXINGTON AVE. STA. 401+87.67
TCAAP ENT. STA. 0+00.00
(+50 P.I. BIT. PATH) (FUTURE)
(+50 P.I. BIT. PATH) (FUTURE)
BIT.
ARDEN HILLS
SCALE 0' 30' 100'
CONST. LIMITS
FUTURE BIT. PATH
35'R
12' 12'
AP 143
133'
8'
CLEAR & GRUB BY THE ACRE
CB 144
CB 145
CB 146
CB 147
CB 148
B624 C & G
400 401 402 403 404 405 406 407 408 409
CONSTRUCTION ℄ SECTION LINE
LEXINGTON AVE.
16.5'
28'
MH 148
MH 41
8' BIT. PATH
49.5'
REMOVE
G.V.
HYD.
18" RCP
AP 35
MH 37
AP 40
AP 149
10'
DRAINAGE EASEMENT
CB 36
CB 39
MH 38
EX. DRAINAGE EASEMENT
LAKE BEACH DRIVE
50'
EXISTING S512 C&G
END B624 C&G RT. 80'. SEE CURB TRANSITION DETAIL SHEET 12. MATCH TO EXISTING C&G
REMOVE 16 LF S512 C&G. END B624 C&G RT. 80'. SEE CURB TRANSITION DETAIL SHEET 12 MATCH TO EXISTING C&G.
BEGIN PRECAST STONE WALL STA. 408+93 RT. 44'-49.5'
LEGEND
① SAWCUT BITIMINOUS
② SAWCUT CONCRETE
④ CONSTRUCT PED. RAMP SEE DETAIL SHEET 12
SHOREVIEW

51 LF 15" RCP Δ 1.00
66 67 LF 15" RCP Δ 0.80
75 LF 21" RCP Δ 0.83 + 6' APRON
345 347 LF 18" RCP Δ 1.14
51 LF 15" RCP Δ 0.50
178 155 LF 15" RCP Δ 1.00
19 15 LF 15" RCP Δ 1.70% + 6' APRON
890.25
890.34 890.43
890.85 891.12
891.55 891.22
891.63 891.76
889.64
890.00 890.56
891.30
891.63
891.88
894.50 894.52
894.70 894.95 894.83
895.05 895.03
898.30 898.00 898.21 898.46
896.83
EXISTING PROFILE = CONST. ℄
PROPOSED PROFILE = CONST. ℄
PVC +75.00 EL 900.25
PVI +00.00 EL 900.50
PVT +25.00 EL 900.63
PVC +75.00 EL 901.87
PVI +00.00 +89.88 EL 901.91
PVT +25.00 EL 901.70
+00.980%
+00.500%
-01.180%
1' SUBCUT FOR UNIFORMITY AND COMPACTION
2.25
50 FT VC
M= 0.10
892.66
EXISTING 16" DIP WATERMAIN
EXISTING 10" DIP WATERMAIN
MUCK EXCAVATION As Built VAR.
END MUCK EXCAVATION STA. 401+80.00 BEGIN 1' UNIFORMITY & COMPACTION
910 905 900 895 890 885
400 401 402 403 404 405 406 407 408

DATE	REVISIONS
5/31	PRECAST WALL & ENTRANCE

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: JLC
DATE: 1/25/91

PROJECT=47391 ALT= 1 REV= 1 SCR=GRID FORM=FORMAT1 DATE= 3/28/1990

TWIN CITIES ARMY AMMUNITION PLANT

(+00 P.I. BIT. PATH-FUTURE)

(+00 P.I. BIT. PATH-FUTURE)

CONST. LIMITS

CLEAR & GRUB BY THE ACRE

FUTURE BIT. PATH

SCALE 0' 30' 100'

CONST. LIMITS

CLEAR & GRUB BY THE ACRE

FUTURE BIT. PATH

ARDEN HILLS

CONST. LIMITS

SEDIMENT POND 4

RIPRAP AP 153

RIPRAP AP 159

LEXINGTON AVE. STA. 415+18.83
LAKE AVENUE STA. 0+00.00

FUTURE BIT. PATH

CB151

MH 152

CB158

B624 C & G

409 CONSTRUCTION ℄ 410 411 412 413 414 415 416 417 418

SECTION LINE

LEXINGTON AVE

CB 150

B624 C&G

WMH 1

240LF 16" D.I.P. CL.53 (SEE SPECIAL PROVISIONS)

155LF 8" PVC (SEE SPECIAL PROVISIONS)

EXIST. 8" SANITARY SEWER

AP 154

AP 155

AP 45

AP 46

AP 47

REMOVE MH 44

WMH2

CB 157

8' BIT. PATH

8' BIT. PATH

MH 42

HYD.

CONC.

BIT.

CONST. LIMITS

SHOREVIEW

PROVIDE BY-PASS PUMPING-SEE SPECIAL PROVISIONS

CB 156

END B624 C & G RT. 72' WITH VERTICAL TRANSITION DETAIL SHEET NO. 12

35LF 6" D.I.P. (SEE SPECIAL PROVISIONS)

TAPER BIT. TO MATCH EXISTING AS DIRECTED

GRADE TO DRAIN

AP 160

AP 161

MH 48

EXIST. 8" SANITARY SEWER

AP 162

CONST. LIMITS

END PRECAST STONE WALL STA. 409+48± RT. 44-49.5

LEGEND

① SAWCUT BITUMINOUS
② SAWCUT CONCRETE
④ CONSTRUCT PED. CURB RAMP AS PER DETAIL SHEET NO. 12

PROJECT=47391 ALT= 1 REV= 1 SSR=GRID FORM=FORMAT1 DATE= 3/29/1990

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: LBC
DATE: 3/29/91

905 900 895 890 885 880

PVC +75.00 EL 899.93

PVT +00.00 EL 899.64

PVT +25.00 EL 899.06

-01.160%

EXISTING PROFILE CONST. ℄

PROPOSED PROFILE CONST. ℄

1' SUBCUT FOR UNIFORMITY AND COMPACTION

CB 150

MH 42

CB 151

-02.320%

50 FT VC M= 0.07

51 LF 15" RCP Δ 0.50

247 LF 15" RCP Δ 1.00

891.48 891.32

891.28 891.08

891.00 890.90

EXISTING 16" DIP WATERMAIN

EXISTING 8" SANITARY SEWER

DATE REVISIONS
5/31 PRECAST WALL & ENTRANCE

STA. 413+00 END UNIFORMITY & COMPACTION
BEGIN MUCK EXCAVATION

PVC +75.00 EL 893.26

PVT +25.00 EL 892.55

WMH 1

50 FT VC M= 0.11

AP 153

MH 152

20 LF 18" RCP Δ 0.00 + 6' APRON

80 LF 18" RCP Δ 0.40 + 6' APRON

888.16 888.30

886.07

885.00 885.39

Begin Muck Exc 412.00 Asbuilt

240LF 16" D.I.P. CL.53 (SEE SPECIAL PROVISIONS)

887.50 887.31

AP 45 885.64

35LF 8" PVC (SEE SPECIAL PROVISIONS)

MUCK EXCAVATION TO EL. 863.± STA. 414+00

PVI +00.00 EL 898.68

Muck Exc Asbuilt

PVC +50.00 EL 891.43

PVT +00.00 EL 891.43

WMH 2

50 FT VC M= 0.06

00.502%

20 LF 15" RCP Δ 1.00

56 LF 18" RCP Δ 0.50

CB 156

CB 157

MH 44

AP 45

AP 46

886.84 887.00

887.50 887.31

885.81 886.60

886.39 886.42

887.10 887.31

883.00

9' STUB 15" RCP Δ 0.50 PLUG AS DIRECTED

887.14 887.10

LOW POINT 75.00 FI 891.36

Muck Exc Asbuilt

MUCK EXCAVATION

EXISTING 16" DIP WATERMAIN

886.39

886.42

886.71 886.60

887.00 886.93

886.02 886.18

886.13 886.18

885.88 885.85

20 LF 24" RCP Δ 0.50 + 6' APRON

59 LF 21" RCP Δ 0.50

55 LF 15" RCP Δ 1.00 + 6' APRON

54 LF 15" RCP Δ 1.00 + (2) 6' APRONS

887.54 887.50

888.00 888.06

882.50

399 410 411 412 413 414 415 416 417

S.A.P. 82-69-25

SHEET 21 OF 70 SHEETS

27-131

TWIN CITIES ARMY AMMUNITION PLANT

SCALE 0' 30' 100'

ARDEN HILLS

SEDIMENT POND 4

CONST. LIMITS

CLEAR & GRUB BY THE ACRE

RIPRAP

AP 168

CB 167

FUTURE 8' BIT. PATH

B624 C & G

LEXINGTON AVE.

CONSTRUCTION ℄

SECTION ℄

CB 166

8' BIT. PATH

16" DIP WATERMAIN

G.V.

HYD.

9" PVC SANITARY SEWER

12" CMP

MH 49

AP 165

AP 164

AP 163

GRADE TO DRAIN

BIT.

SHOREVIEW

GRADE TO DRAIN SEE X-SECTIONS

EXIST. 9" PVC SANITARY SEWER

MH 50

AP 173

CB 172

CB 171

COUNTY ROAD I

SHEET 24

BEGIN BIT. PATH

EXISTING BIT. PATH

LEXINGTON AVE. STA. 425+24.62
COUNTY RD. I STA. 26+24.75

HH.6

HH.5

HH.1

HH.2

HH.3

4" RSC

MH 54

MH 53

MH 52

MH 51

MH 43

35'R

26'

5'R(TYP.)

EXIST. 24" CONCRETE PIPE

42" STEEL CASING

MH 58

AP 56

AP 57

AP 59

AP 55

REMOVE C & G

EXISTING B612 C & G

BIT.

REMOVE

EX. 15" RCP

CONSTRUCT CONC. BASE SLAB-SEE SHEET 12

8' BIT. PATH

5'R

EXISTING 60" CONCRETE WATERMAIN CONDUIT

CONST. LIMITS

DRAINAGE EASEMENT

418 419 420 421 422 423 424 425 426 427

LEGEND

① SAWCUT BITUMINOUS
② SAWCUT CONCRETE
④ CONSTRUCT PED. CURB RAMP AS PER DETAIL SHEET NO. 12
⑥ CONST. MODIFIED (BITUMINOUS) PED. CURB RAMP. PAYMENT SHALL BE INCLUDED IN PRICE FOR ITEM NO. 2331.518 AND NO ADDITIONAL COMPENSATION WILL BE MADE THEREFORE.

PVC +13.00 ELL 882.49

HIGH POINT +37.96 EL 892.56

PVI +38.00 ELL 882.62

PVT +53.00 ELL 882.49

PVC +50.00 EL 882.66

PVT +66.66 EL 891.91

PVC +80.00 EL 89.65

PVT +99.00 ELL 89.66

50 FT VC M= 0.06

50 FT VC M= 0.00

-00.504%

-00.500%

+00.502%

+00.501%

EXISTING PROFILE CONST. ℄

PROPOSED PROFILE CONST. ℄

PVI +75.00 EL 891.93

LOW POINT +74.99 EL 890.99

MUCK EXCAVATION RIGHT 50'+/-

MUCK EXCAVATION LEFT

EXISTING 9" SANITARY SEWER

EXISTING 16" DIP WATERMAIN

MUCK EXCAVATION RT. & LT.

MUCK E/C ℄ ASBUILT

VAR.

42" STEEL CASING

EXISTING 60" CONCRETE WATER CONDUIT

BEGIN MUCK EXCEPTION STA. 425+62.00

END MUCK EXCEPTION STA. 426+12.00

NO. 1 60" CONCRETE WATERMAIN CONDUIT

NO. 2 60" STEEL WATERMAIN CONDUIT

BEGIN 8" CONCRETE SLAB STA. 425+62.00 BOTTOM OF SLAB EL. 890.58

END MUCK EXCAV. LEFT, 8" CONCRETE SLAB STA. 426+12.00 BOTTOM OF SLAB EL. 890.03

MUCK EXCAVATION RIGHT

886.40 886.80 878.80 878.30

892.15 887.50 888.00

30 LF 15" RCP Δ 0.70 + 2 8' APRONS

887.40 887.41 887.10 887.12

18 LF 15" RCP Δ 1.50 + APRON

50 LF 15" RCP Δ 0.50

21 LF 15" RCP Δ 1.00 + 8' APRON

886.85 886.10 886.62 886.05 886.62 886.05 886.75 886.70 887.04 887.00

28 LF 30" RCP Δ 0.31 + 8' APRON

115 LF 30" RCP Δ 0.31

885.74 885.86 886.00 886.05 886.10 890.31 886.47

SEE SHEET 24

ASBUILT PLAN CONFORMING TO CONST. RECORDS

DONE BY: JC.

DATE: 1/29/91

PROJECT=47391 ALT= 1 REV= 1 SGR=GRID FORM=FORMAT1 DATE= 3/28/1990

C.A.P. 62-651-25

SHEET 22 OF 70 SHEETS

27-131

SEE SHEET NO. 25

AP 77

COUNTY ROAD I 1

80'

22' 22'

CONST. LIMITS

158'

35'R

MH 62

MH 63

MH 61

24" RCP SANITARY SEWER

8' BIT. PATH

16" DIP WATERMAIN

15" RCP

AP 60

REMOVE

AP 64

EXIST. 15" CMP

AP 65

REMOVE

427

428

429

430

431

432

433

434

435

436

CB 185

CB 186

CB 187

CB 188

+00 P.I. BIT. PATH

+00 P.I. BIT. PATH

LEXINGTON AVE. STA. 428+65.20
COUNTY ROAD I STA. 26+62.15

EXIST. 24" SANITARY SEWER

MH 69

EXIST. 24" RCP SANITARY SEWER

8" GAS (PLASTIC)

CONSTRUCTION ℄

SECTION LINE

LEXINGTON AVE.

MH 66

MH 68

MH 67

MATCH TO EXISTING CONCRETE

CONST. LIMITS

BIT.

LEXINGTON AVE. STA. 434+07.55
ROYAL OAKS DRIVE STA. 0+00.00

EXISTING BIT. PATH

END BIT. PATH STA. 435+00.00

END S.A.P. 82-851-25
STA. 436+10.00

MH 70

MH 72

TAPER TO MATCH EXISTING

END B624 C&G STA. 434+60

END TAPER 436+10

END TAPER 435+00

MH 71

CONST. 4" CONCRETE WALK 120 SF

MATCH TO EXISTING

END B624 C & G RT. 66' SEE CURB TRANSITION DETAIL SHEET 12

MATCH TO EXISTING

ROYAL OAKS DRIVE

8" SANITARY SEWER

8" DIP WATERMAIN

HYD.

EXISTING CONC. WALK

AP 181

DRAINAGE EASEMENT

CONST. LIMITS

SCALE 0' 30' 100'

LEGEND

① SAWCUT BITUMINOUS

④ CONSTRUCT PER RAMP AS PER DETAIL SHEET

MH 152

MH 151

135 LF 12" RCP Δ 0.30 ▪ 6' APRON

887.55 887.89

887.58 887.87

886.00 887.93

+90 END MUCK EXCAV. RIGHT

PVC +89.00 EL 889.56

+50 END MUCK EXCAV. LEFT

56 LF 15" RCP Δ 0.50

890.00 889.66

890.20 889.98

890.45 890.21

100 FT VC
M= 0.18

PVC +66.00 EL 895.79

PVC +56.00 EL 896.74

+00.501%

+01.965%

EXISTING PROFILE CONST. ℄

PROPOSED PROFILE CONST ℄

1' SUBCUT FOR UNIFORMITY AND COMPACTION

PVI +25.00
EL 902.18

HIGH POINT
+90.25 EL 901.10

PVI +00.00 EL 900.16

-00.898%

350 FT VC
M= 1.25

12 LF 15" RCP Δ 1.00

43 LF 15" RCP Δ 1.00

65 LF 15" RCP Δ 1.00

241 LF 15" RCP Δ 1.62

51 LF 15" RCP Δ 0.50

882.80

882.55

MUCK EXCAVATION LEFT

882.08

892.50

889.38

889.45

888.82 888.81

888.25

888.00

894.00 893.77

894.20 893.97

894.45 894.18

890.07

891.86

MUCK EXCAVATION RIGHT

887.55 887.89

888.50 888.67

EXISTING 16" DIP WATERMAIN

SAN. SEWER INV. 878.00

SAN. SEWER INV. 878.00

SAN. SEWER INV. 877.90

SAN. SEWER INV. 877.80

SAN. SEWER INV. 877.60

910

905

900

895

890

885

427

428

429

430

431

432

433

434

435

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: ABC
DATE: 1/29/9

S.A.P. 82-851-25

SHEET 23 OF 70 SHEETS

27-131

PROJECT-47391 ALT= 1 REV= 1 SGR=GRID FORM=FORMAT1 DATE= 3/26/1990

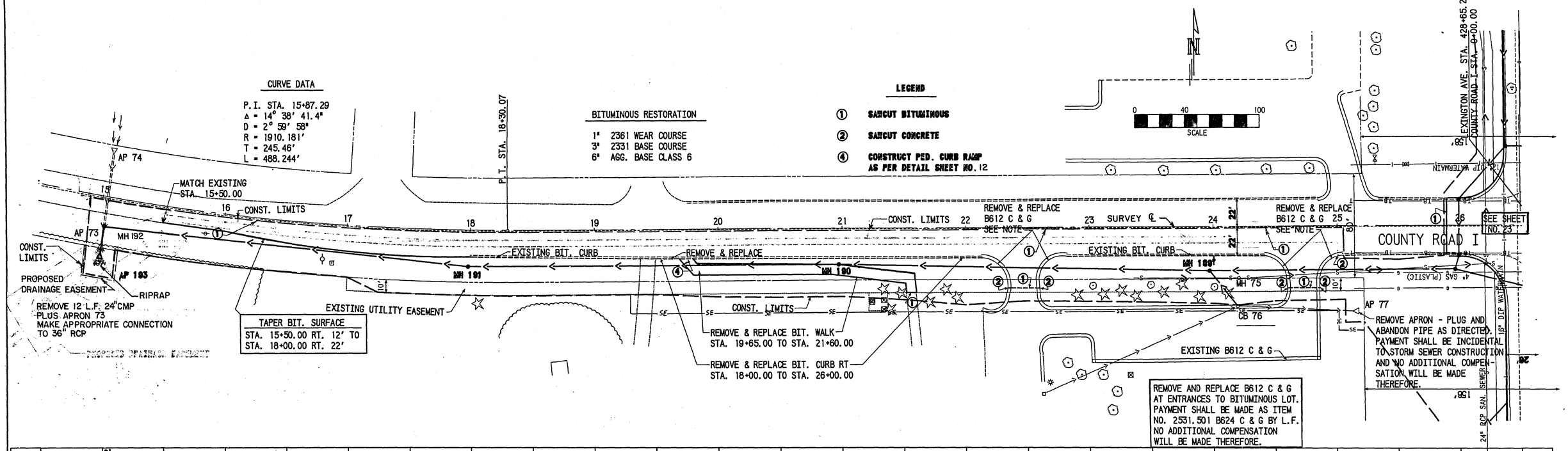
LEGEND
SAWCUT BITUMINOUS

EXISTING BIT. PATH
CONST. LIMITS
EXISTING 60" CONCRETE WATER CONDUIT
SEE SHEET NO. 22
REMOVE
EXIST. 18" CMP
COUNTY ROAD I
SECTION LINE
CONSTRUCTION ℄
B624 C & G
EXIST. SANITARY SEWER
GEOTEXTILE FABRIC
GRADE TO DRAIN TO APRON 173
GRADE TO DRAIN TO APRON 179
GRADE TO DRAIN TO APRON 180
GRADE TO DRAIN TO APRON 178
MATCH EXISTING STA. 30+50
EXIST. SANITARY SEWER
CONST. LIMITS
Geotextile Fabric IN PLACE STATION 27+30 to 30+50 AT A Depth of 6± Below Profile
8' BIT. PATH
GRADE TO DRAIN SEE X-SECTIONS
EXIST. 8" PVC SANITARY SEWER
LAKE AVE.
+50 END B624 C & G
+50 END B624
CB 172
CB 171
CB 175
CB 176
MH 50
MH 174
MH 177
AP 173
AP 178
AP 180
0' 30' 100'
SCALE

7 LF 22" SPAN RCP-A Δ 1.00 (3 ACTUAL FEET OF PIPE)
51 LF 22" SPAN RCP-A Δ 0.40
65 LF 15" RCP Δ 0.40 + 6' APRON
887.94
888.10
887.40
887.65
887.78
887.82
18 LF 15" RCP Δ 0.60 + 6' APRON
887.76
888.00
887.04
887.44
EXISTING PROFILE CONST. ℄
PROPOSED PROFILE CONST. ℄
-00.663%
-00.518%
FVI +08.75 EL. 891.20
BP +48.75 EL. 892.26
116 LF 30" RCP Δ 0.31
236
200 LF 28" SPAN RCP-A Δ 0.31
886.56
886.51
887.10
887.16
887.61
887.38
887.50
MUCK EXCAVATION
FABRIC 2'±BP TO 30+50 2'±PAST ABUTMENT
53 LF 22" SPAN RCP-A Δ 0.31
54 LF 22" SPAN RCP-A Δ 0.31 + 6' APRON
+50 MATCH EXISTING EL. 885.95
51 LF 18" RCP Δ 0.50
17 LF 15" RCP Δ 2.00 + 6' APRON
EX. 24" RCP SANITARY
EXISTING 18" RCP SANITARY SEWER
876.80
887.22
886.88
887.04
887.00
886.60
42" STEEL CASING
+55 END MUCK EXCAVATION BEGIN 20'±
879.10
MUCK EXC. ℄ ASBUILT LEFT
27
28
29

S.A.P. 62-65-25 SHEET 24 OF 70 SHEETS

27-131



ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: J.BC
DATE: 3/4/91

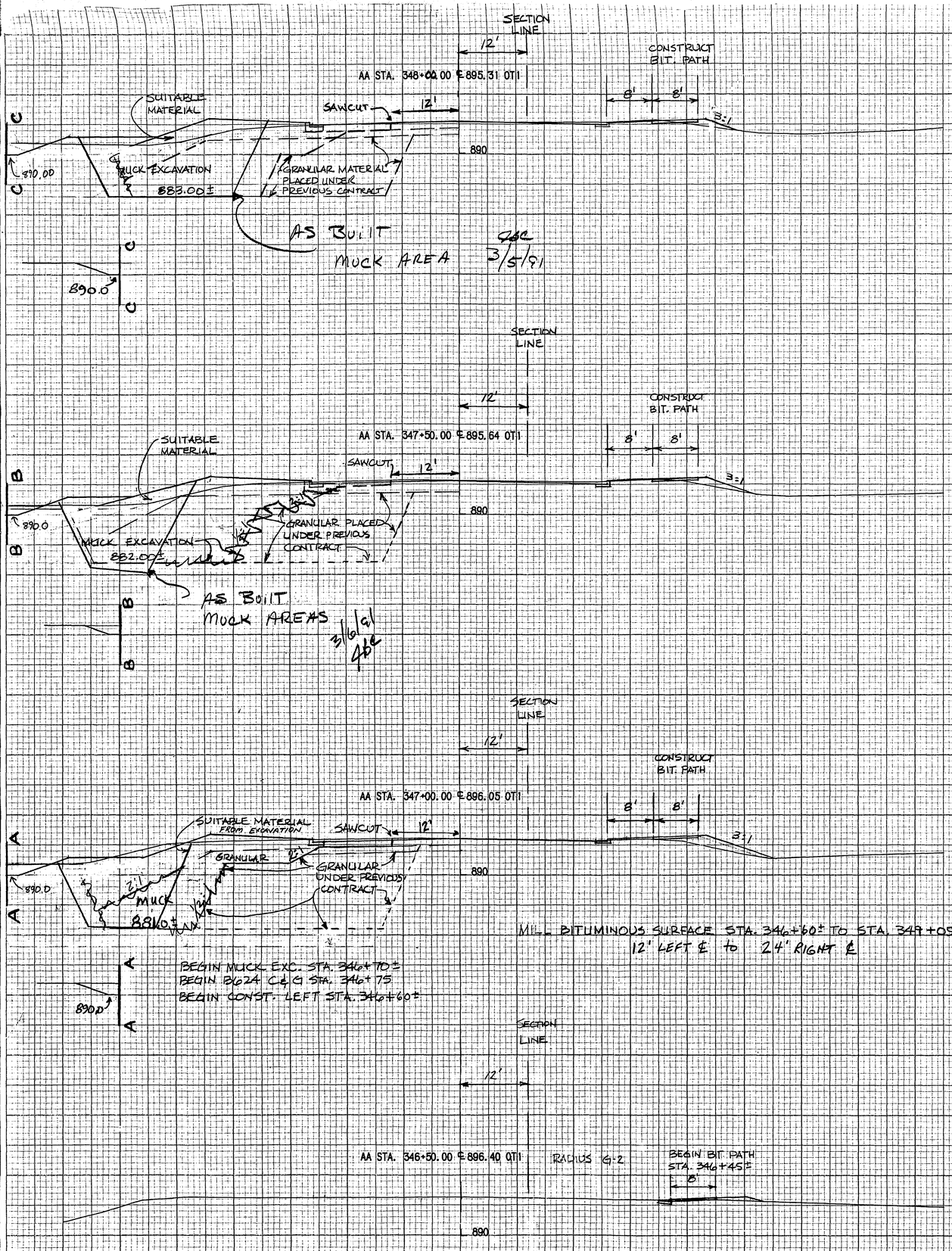
REVISIONS	DATE	BY	REVISIONS	DATE	BY
Sta. 15+03, MH 193, Ap 193	6/1/90	TL			
Remove Ap. 73	6/1/90	TL			

S.A.P. 62-631-25

SHEET 25 OF 70 SHEETS

27-131

PROJECT=47391 ALT= 1 REV= 1 SGR=GRID FORM=FORMAT1 DATE= 3/30/1990



MUCK GRAN	MUCK EXC	EXC	EMB
243	359		105
297	360		125
249	460		157

X-SECTION LEGEND

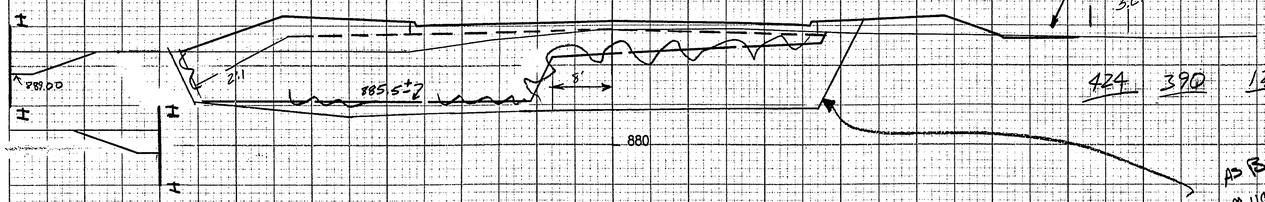
OT1 = ORIGINAL TERRAIN ELEVATION
DES1 = DESIGN ELEVATION - PROFILE GRADE
ABM1 = APPROXIMATE BOTTOM OF MUCK
SCT1 = SUBCUT 1 - BOTTOM OF SUBCUT FOR UNIFORMITY & COMPACTION
SCT2 = SUBCUT 2 - TOP OF SUBCUT
SCT3 = SUBCUT 3 - TOP OF AGGREGATE BASE

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY:
DATE: 3/6/91

A. 346+50.00 TO 348+00.00 SCALE - 10-X 10

+15 END POND #1

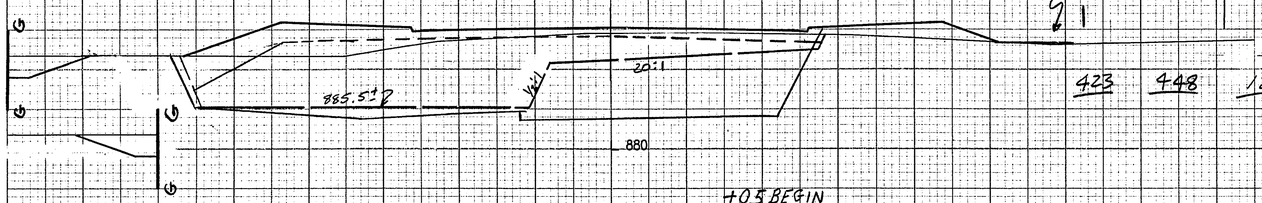
A STA. 350+00.00 ℄ 895.62 DES1
AA STA. 350+00.00 ℄ 894.50 OT1
A STA. 350+00.00 ℄ 891.49 ABM1



MUCK GRAN	MUCK EXC	EMB
424	390	129

R/W
EL. 893.16
S.E.

A STA. 349+50.00 ℄ 895.37 DES1
AA STA. 349+50.00 ℄ 894.63 OT1
A STA. 349+50.00 ℄ 891.24 ABM1

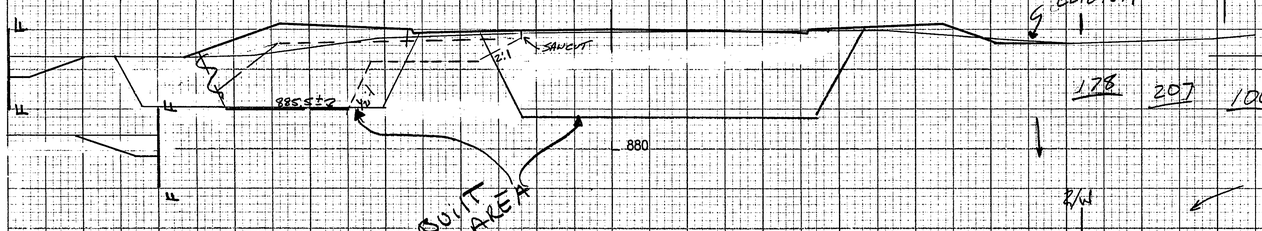


MUCK GRAN	MUCK EXC	EMB
423	448	123

R/W
EL. 893.3±
S.E.

BEGIN FULL WIDTH EXCAVATION - 349+05

A STA. 349+00.00 ℄ 895.12 DES1
AA STA. 349+00.00 ℄ 894.78 OT1



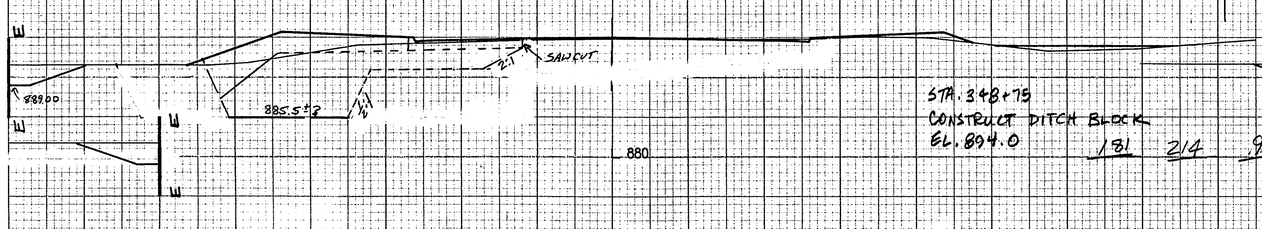
MUCK GRAN	MUCK EXC	EMB
178	207	100

+45 AS BUILT MUCK AREA

+05 BEGIN B624 CURB & GUTTER MATCH EXISTING

R/W
EL. 893.1±
S.E.
891.2±

A STA. 348+75.00 ℄ 895.07 DES1
AA STA. 348+75.00 ℄ 894.90 OT1



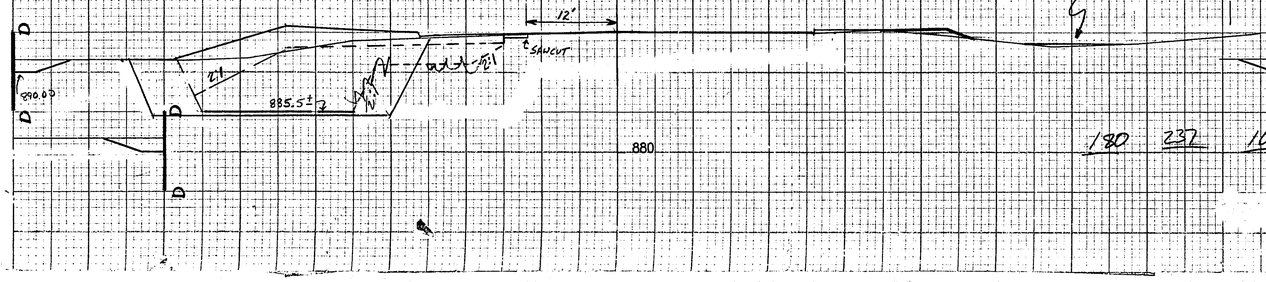
MUCK GRAN	MUCK EXC	EMB
181	214	90

+80 EXISTING APRON
RT. 55'± EL. 893.1±

STA. 348+75
CONSTRUCT DITCH BLOCK
EL. 894.0

R/W
S.E.
890.5±

895.20 DES1
AA STA. 348+50.00 ℄ 895.07 OT1

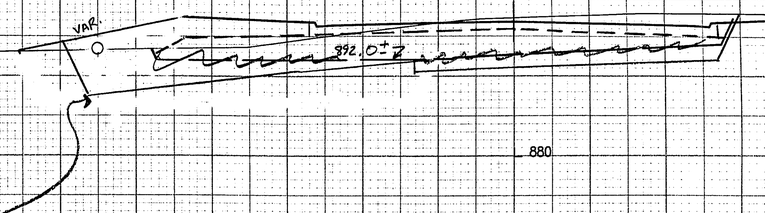


MUCK GRAN	MUCK EXC	EMB
180	237	103

R/W
EL. 893.5±
S.E.
889.7±

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: LBC
DATE: 3/6/91

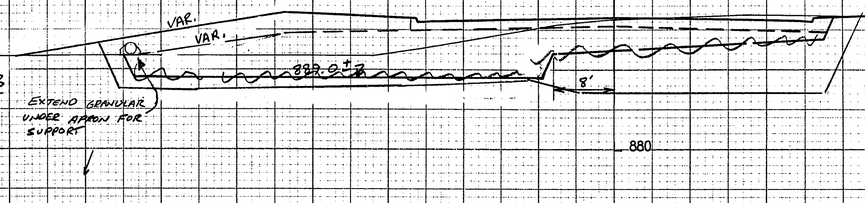
A STA. 352+50.00 ℄ 896.91 DES1
AA STA. 352+50.00 ℄ 897.39 OT1
A STA. 352+50.00 ℄ 892.79 ABM1



MUCK GRAN	MUCK EXC	EMB
430	523	98

AS BUILT MUCK AREAS
495
3/5/91

A STA. 352+00.00 ℄ 896.62 DES1
AA STA. 352+00.00 ℄ 896.35 OT1
A STA. 352+00.00 ℄ 892.46 ABM1

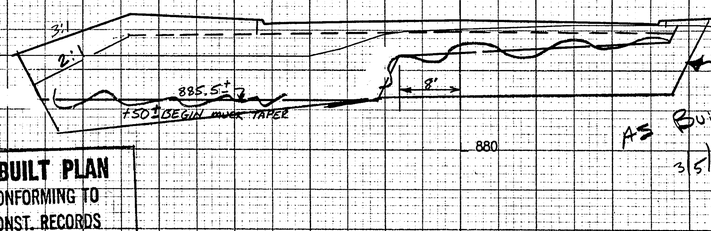


MUCK GRAN	MUCK EXC	EMB
510	460	112

R/W

EXTEND GRANULAR UNDER APRON FOR SUPPORT

A STA. 351+50.00 ℄ 896.37 DES1
AA STA. 351+50.00 ℄ 895.22 OT1
A STA. 351+50.00 ℄ 892.23 ABM1

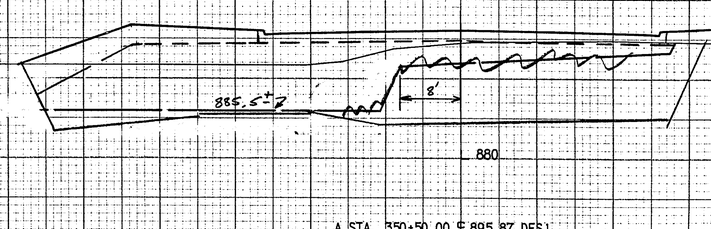


MUCK GRAN	MUCK EXC	EMB
398	361	109

AS BUILT MUCK
3/5/91

R/W

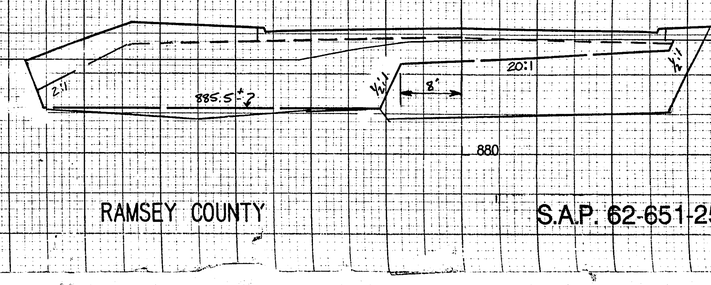
A STA. 351+00.00 ℄ 896.12 DES1
AA STA. 351+00.00 ℄ 894.49 OT1
A STA. 351+00.00 ℄ 891.98 ABM1



MUCK GRAN	MUCK EXC	EMB
421	358	130

EXISTING EL. 894.0±

A STA. 350+50.00 ℄ 895.87 DES1
AA STA. 350+50.00 - 894.31 OT1
A STA. 350+50.00 - 891.74 ABM1



MUCK GRAN	MUCK EXC	EMB
431	374	122

R/W
EL. 893.85
S.E.

STA. 348+50.00 TO 352+50.00 SCALE = 10 X 10

RAMSEY COUNTY | S.A.P. 62-651-25 | SHEET 27 OF 70 SHEETS

A STA. 355+00.00 ℄ 900.92 SCT3
A STA. 355+00.00 ℄ 900.24 SCT2
A STA. 355+00.00 ℄ 899.26 SCT1
A STA. 355+00.00 ℄ 901.49 DES1
AA STA. 355+00.00 ℄ 901.86 OT1

EXC EMB

R/W

155 163

890

A STA. 354+50.00 ℄ 899.92 SCT3
A STA. 354+50.00 ℄ 899.24 SCT2
A STA. 354+50.00 ℄ 898.26 SCT1
A STA. 354+50.00 ℄ 900.50 DES1
AA STA. 354+50.00 ℄ 900.99 OT1

R/W

174 112

890

A STA. 354+00.00 ℄ 898.92 SCT3
A STA. 354+00.00 ℄ 898.24 SCT2
A STA. 354+00.00 ℄ 897.26 SCT1
A STA. 354+00.00 ℄ 899.49 DES1
AA STA. 354+00.00 ℄ 900.00 OT1

R/W

165 114

890

A STA. 353+50.00 ℄ 897.92 SCT3
A STA. 353+50.00 ℄ 897.24 SCT2
A STA. 353+50.00 ℄ 896.26 SCT1
A STA. 353+50.00 ℄ 898.50 DES1
AA STA. 353+50.00 ℄ 899.33 OT1

R/W

183 106

890

A STA. 353+00.00 ℄ 896.96 SCT3
A STA. 353+00.00 ℄ 896.29 SCT2
A STA. 353+00.00 ℄ 895.30 SCT1
A STA. 353+00.00 ℄ 897.55 DES1
AA STA. 353+00.00 ℄ 898.53 OT1

R/W

AS BUILT MUCK AREA ~~BE~~ 3/5/91

192 115

890

BEGIN 2.25' SUBCUT (1 SUBGRADE CORRECTION)
END MUCK EXCAVATION STA. 353+00 ±

A STA. 357+08.00 ℄ 905.86 SCT3
A STA. 357+08.00 ℄ 905.19 SCT2
A STA. 357+08.00 ℄ 904.19 SCT1
A STA. 357+08.00 ℄ 906.44 DES1
AA STA. 357+08.00 ℄ 905.71 OT1

EXC EMB

R/W

℄ ENTRANCE

MATCH EXISTING

S.C. 85'

76 245

900

A STA. 357+00.00 ℄ 905.66 SCT3
A STA. 357+00.00 ℄ 904.99 SCT2
A STA. 357+00.00 ℄ 904.00 SCT1
A STA. 357+00.00 ℄ 906.24 DES1
AA STA. 357+00.00 ℄ 905.42 OT1

R/W

S.C. 85'

80 263

AS BUILT BORROW AREA 3/6/91

890

R/W

A STA. 356+50.00 ℄ 904.42 SCT3
A STA. 356+50.00 ℄ 903.74 SCT2
A STA. 356+50.00 ℄ 902.76 SCT1
A STA. 356+50.00 ℄ 905.00 DES1
AA STA. 356+50.00 ℄ 904.50 OT1

97 253

890

R/W

A STA. 356+00.00 ℄ 903.17 SCT3
A STA. 356+00.00 ℄ 902.49 SCT2
A STA. 356+00.00 ℄ 901.51 SCT1
A STA. 356+00.00 ℄ 903.74 DES1
AA STA. 356+00.00 ℄ 903.47 OT1

115 236

890

A STA. 355+50.00 ℄ 901.95 SCT3
A STA. 355+50.00 ℄ 901.28 SCT2
A STA. 355+50.00 ℄ 900.29 SCT1
A STA. 355+50.00 ℄ 902.53 DES1
AA STA. 355+50.00 ℄ 902.97 OT1

R/W

154 210

890

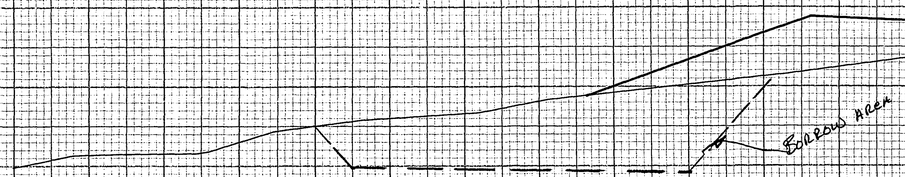
STA. 353+00.00 TO 357+08.00 SCALE: 1" = 10'

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/6/91

EXC EMB

A STA. 358+00.00 ℄ 907.66 SCT3
A STA. 358+00.00 ℄ 906.99 SCT2
A STA. 358+00.00 ℄ 906.00 SCT1
A STA. 358+00.00 ℄ 908.24 DES1
AA STA. 358+00.00 ℄ 907.10 OT1

64 292



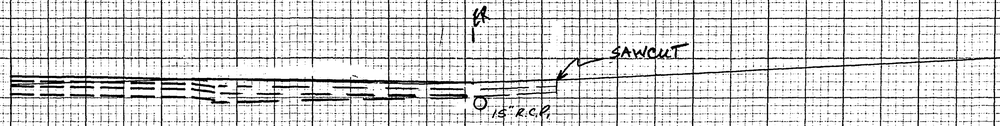
880

357+90 CONCRETE CURB 6.0'RT EL. 906.7± (CB12) REMOVE
SAWCUT 5512 C&G @ 72'

A STA. 357+77.09 ℄ 907.28 SCT3
A STA. 357+77.09 ℄ 906.61 SCT2
A STA. 357+77.09 ℄ 905.61 SCT1
A STA. 357+77.09 ℄ 907.86 DES1
AA STA. 357+77.09 ℄ 906.83 OT1

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/4/91

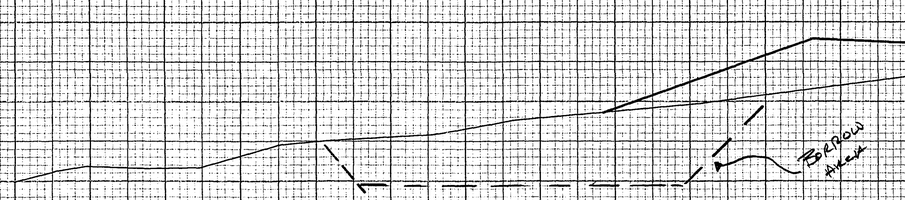
℄ ROBIN HOOD PLACE



900

357+60 CONC. CURB 6.0 RT. EL. 906.3± (CB 11) REMOVE
SAWCUT 5512 C&G @ 72'

A STA. 357+50.00 ℄ 906.77 SCT3
A STA. 357+50.00 ℄ 906.09 SCT2
A STA. 357+50.00 ℄ 905.11 SCT1
A STA. 357+50.00 ℄ 907.34 DES1
AA STA. 357+50.00 ℄ 906.42 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/4/91

76 245

880

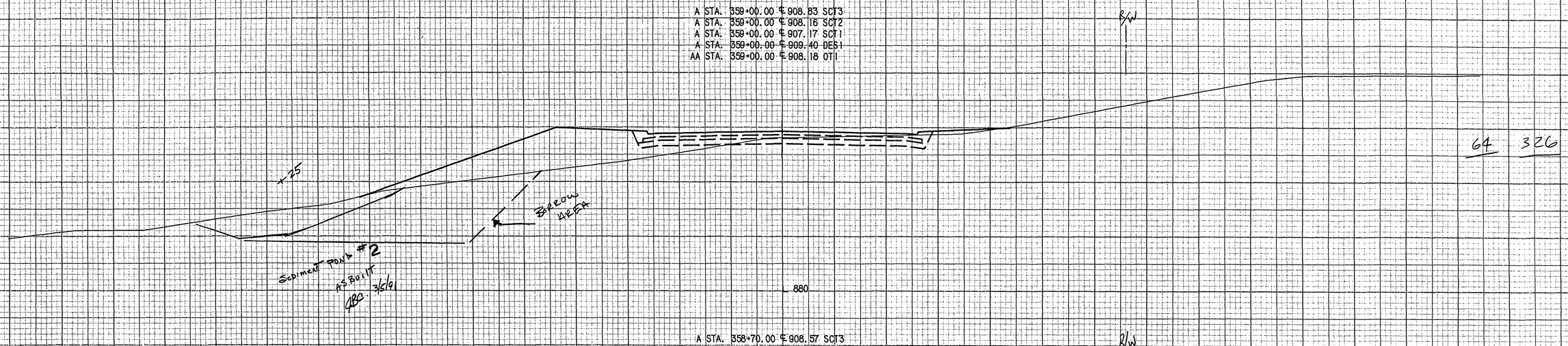
STA. 357+50.00 TO 358+00.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 29 OF 70 SHEETS

27-131

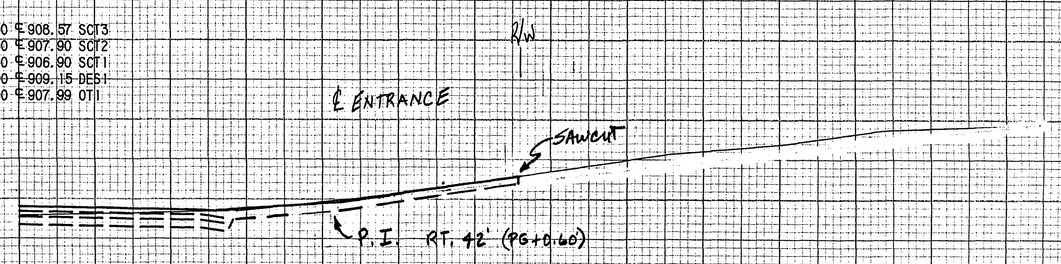
EXC EMB

A STA. 359+00.00 ℄ 908.83 SCT3
A STA. 359+00.00 ℄ 908.16 SCT2
A STA. 359+00.00 ℄ 907.17 SCT1
A STA. 359+00.00 ℄ 909.40 DES1
AA STA. 359+00.00 ℄ 908.18 OT1

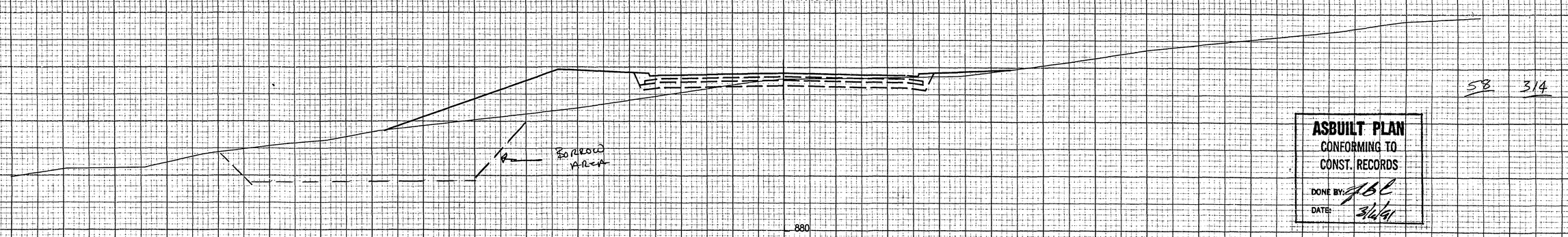


64 326

A STA. 358+70.00 ℄ 908.57 SCT3
A STA. 358+70.00 ℄ 907.90 SCT2
A STA. 358+70.00 ℄ 906.90 SCT1
A STA. 358+70.00 ℄ 909.15 DES1
AA STA. 358+70.00 ℄ 907.99 OT1



A STA. 358+50.00 ℄ 908.35 SCT3
A STA. 358+50.00 ℄ 907.68 SCT2
A STA. 358+50.00 ℄ 906.69 SCT1
A STA. 358+50.00 ℄ 908.92 DES1
AA STA. 358+50.00 ℄ 907.88 OT1



58 314

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: JBC
DATE: 3/6/19

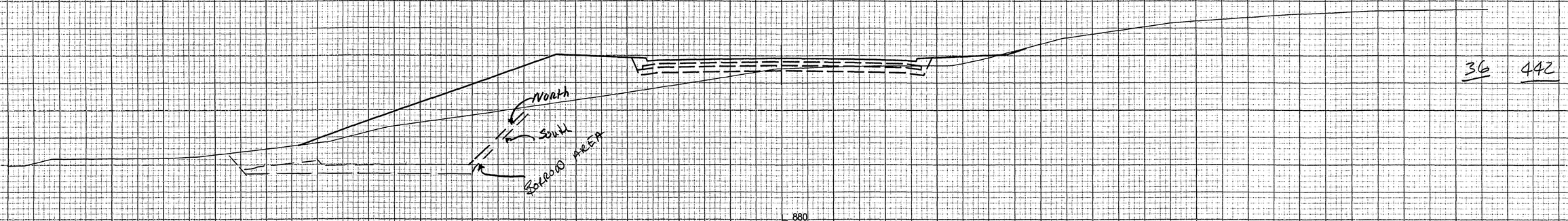
STA. 358+50.00 TO 359+00.00 SCALE = 10' X 10'

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 30 OF 70 SHEETS

27-131

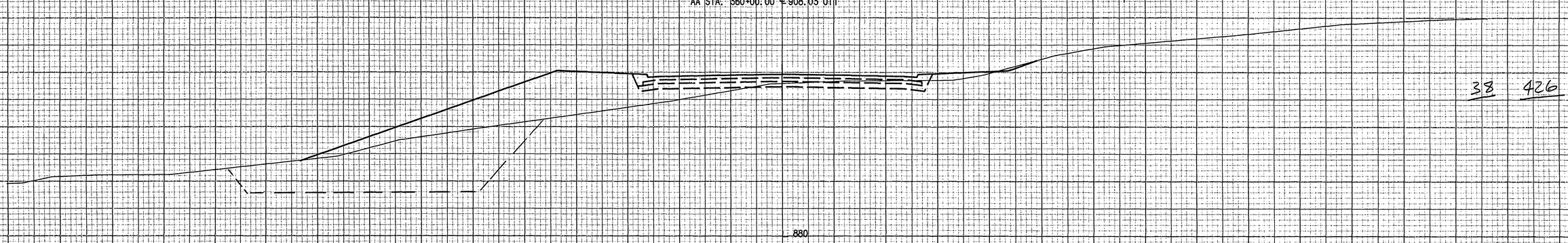
EXC EMB

A STA. 360+50.00 ℄ 909.02 SCT3
A STA. 360+50.00 ℄ 908.34 SCT2
A STA. 360+50.00 ℄ 907.36 SCT1
A STA. 360+50.00 ℄ 909.59 DES1
AA STA. 360+50.00 ℄ 907.78 OT1



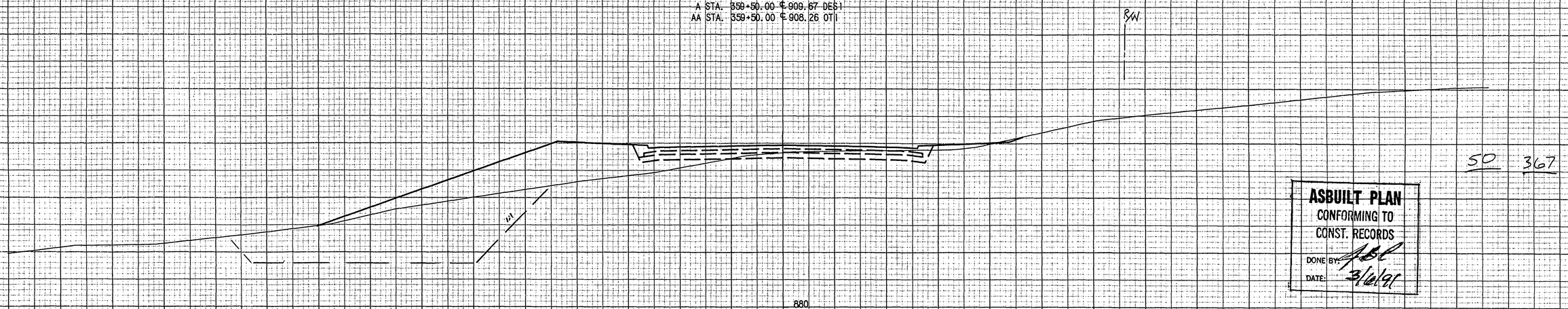
36 442

A STA. 360+00.00 ℄ 909.16 SCT3
A STA. 360+00.00 ℄ 908.49 SCT2
A STA. 360+00.00 ℄ 907.50 SCT1
A STA. 360+00.00 ℄ 909.75 DES1
AA STA. 360+00.00 ℄ 908.03 OT1



38 426

A STA. 359+50.00 ℄ 909.10 SCT3
A STA. 359+50.00 ℄ 908.43 SCT2
A STA. 359+50.00 ℄ 907.44 SCT1
A STA. 359+50.00 ℄ 909.67 DES1
AA STA. 359+50.00 ℄ 908.26 OT1



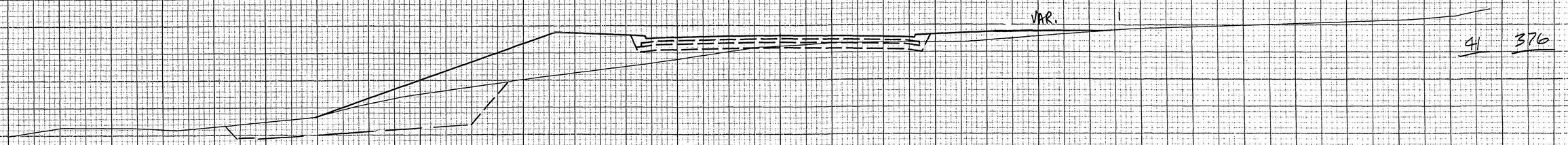
50 367

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABC
DATE: 3/6/91

STA. 359+50.00 TO 360+50.00 SCALE = 10 X 10

EXC EMB

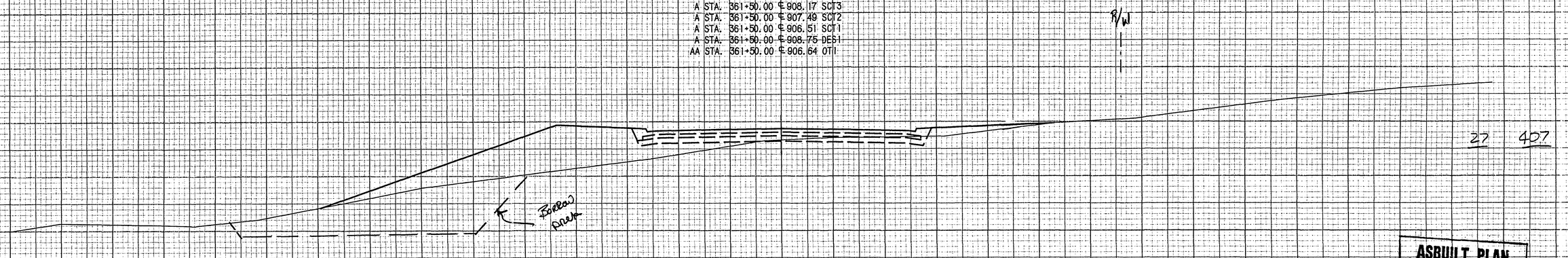
A STA. 362+00.00 ℄ 907.67 SCT3
A STA. 362+00.00 ℄ 906.99 SCT2
A STA. 362+00.00 ℄ 906.01 SCT1
A STA. 362+00.00 ℄ 908.24 DES1
AA STA. 362+00.00 ℄ 906.24 OT1



41 376

880

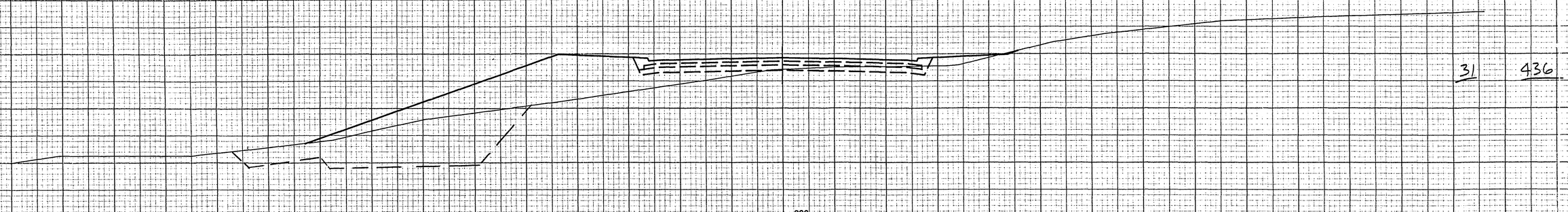
A STA. 361+50.00 ℄ 908.17 SCT3
A STA. 361+50.00 ℄ 907.49 SCT2
A STA. 361+50.00 ℄ 906.51 SCT1
A STA. 361+50.00 ℄ 908.75 DES1
AA STA. 361+50.00 ℄ 906.64 OT1



27 407

880

A STA. 361+00.00 ℄ 908.66 SCT3
A STA. 361+00.00 ℄ 907.99 SCT2
A STA. 361+00.00 ℄ 907.00 SCT1
A STA. 361+00.00 ℄ 909.24 DES1
AA STA. 361+00.00 ℄ 907.10 OT1



31 436

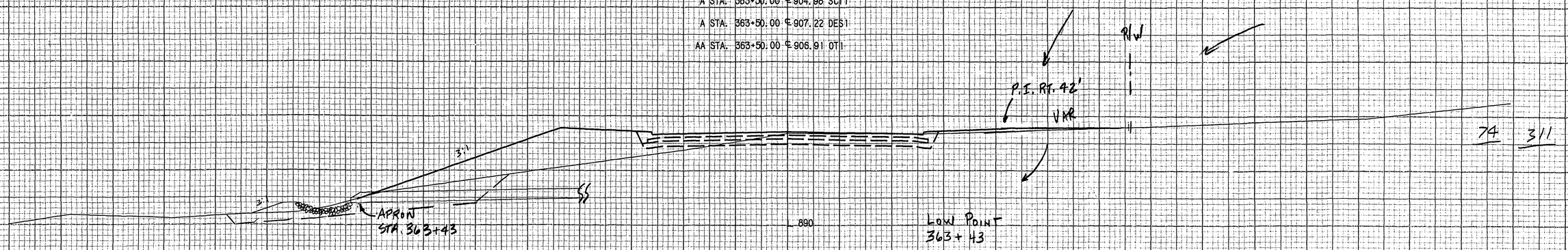
880

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: JBC
DATE: 3/6/91

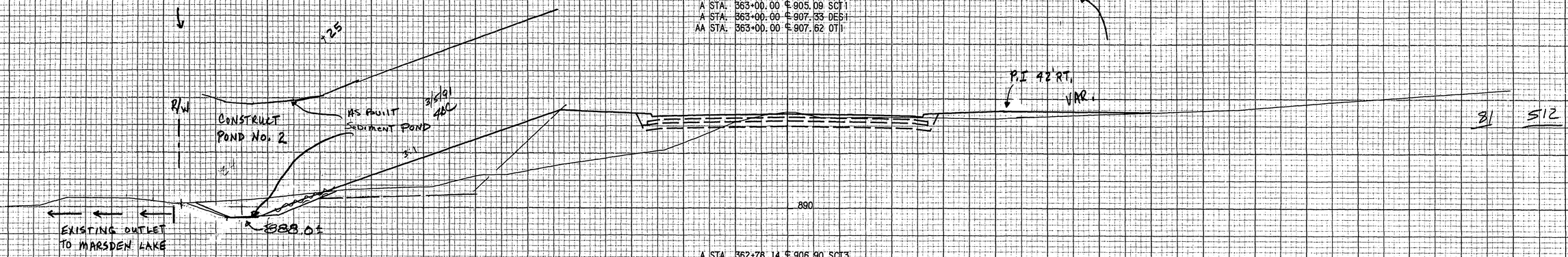
STA. 361+00.00 TO 362+00.00 SCALE = 10 X 10

EXC EMB

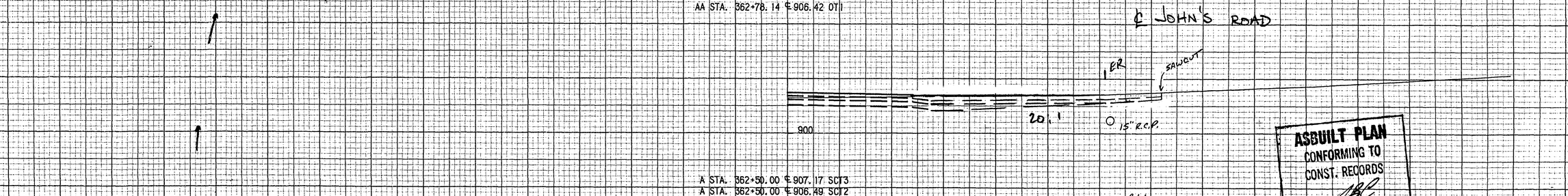
A STA. 363+50.00 ℄ 906.64 SCT3
A STA. 363+50.00 ℄ 905.97 SCT2
A STA. 363+50.00 ℄ 904.98 SCT1
A STA. 363+50.00 ℄ 907.22 DES1
AA STA. 363+50.00 ℄ 906.91 OT1



A STA. 363+00.00 ℄ 906.75 SCT3
A STA. 363+00.00 ℄ 906.08 SCT2
A STA. 363+00.00 ℄ 905.09 SCT1
A STA. 363+00.00 ℄ 907.33 DES1
AA STA. 363+00.00 ℄ 907.62 OT1

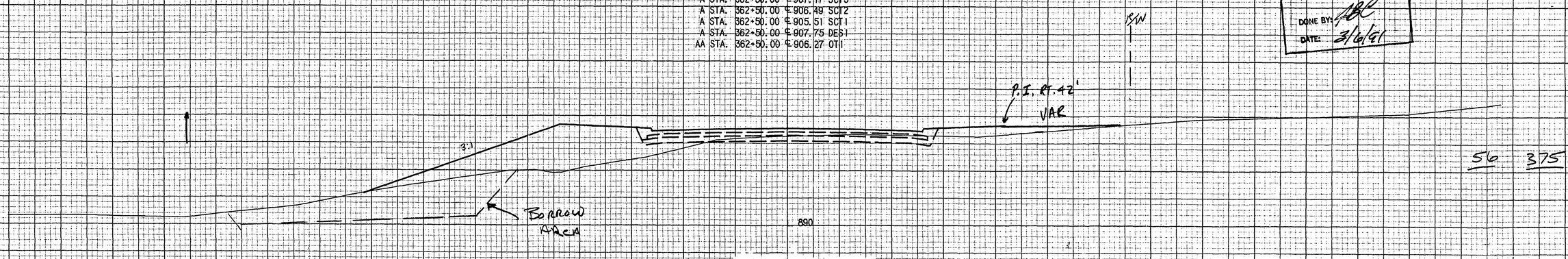


A STA. 362+78.14 ℄ 906.90 SCT3
A STA. 362+78.14 ℄ 906.23 SCT2
A STA. 362+78.14 ℄ 905.23 SCT1
A STA. 362+78.14 ℄ 907.48 DES1
AA STA. 362+78.14 ℄ 906.42 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABC
DATE: 3/6/91

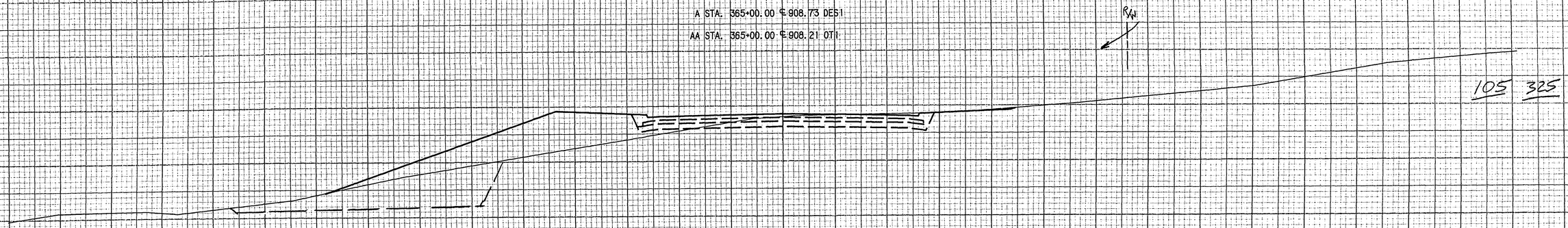
A STA. 362+50.00 ℄ 907.17 SCT3
A STA. 362+50.00 ℄ 906.49 SCT2
A STA. 362+50.00 ℄ 905.51 SCT1
A STA. 362+50.00 ℄ 907.75 DES1
AA STA. 362+50.00 ℄ 906.27 OT1



STA. 362+50.00 TO 363+50.00 SCALE = 10 X 10

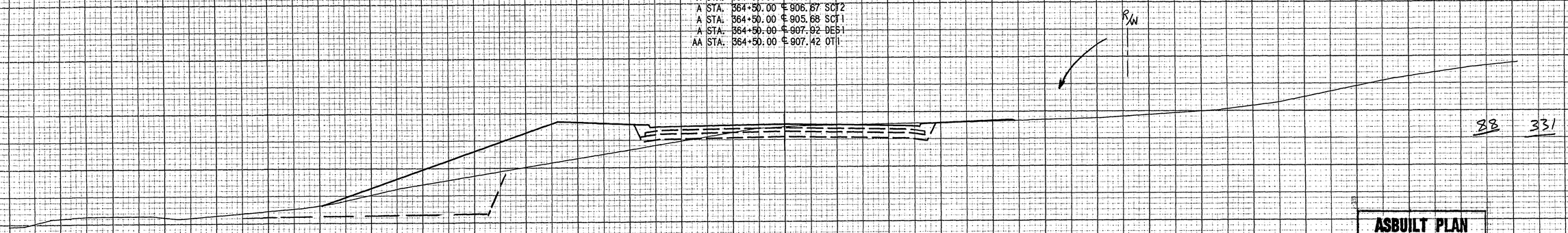
EXC EMB

A STA. 365+00.00 ℄ 908.15 SCT3
A STA. 365+00.00 ℄ 907.48 SCT2
A STA. 365+00.00 ℄ 906.49 SCT1
A STA. 365+00.00 ℄ 908.73 DES1
AA STA. 365+00.00 ℄ 908.21 OT1



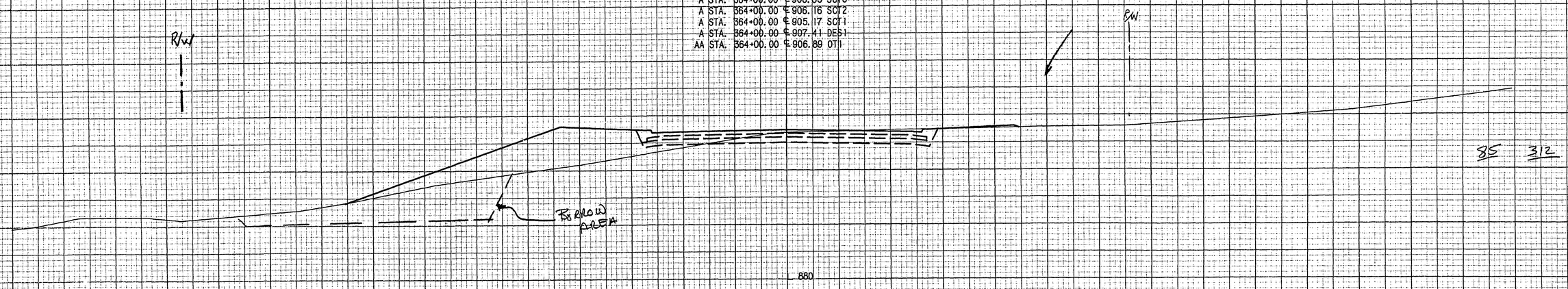
105 325

A STA. 364+50.00 ℄ 907.34 SCT3
A STA. 364+50.00 ℄ 906.67 SCT2
A STA. 364+50.00 ℄ 905.68 SCT1
A STA. 364+50.00 ℄ 907.92 DES1
AA STA. 364+50.00 ℄ 907.42 OT1



88 331

A STA. 364+00.00 ℄ 906.83 SCT3
A STA. 364+00.00 ℄ 906.16 SCT2
A STA. 364+00.00 ℄ 905.17 SCT1
A STA. 364+00.00 ℄ 907.41 DES1
AA STA. 364+00.00 ℄ 906.89 OT1



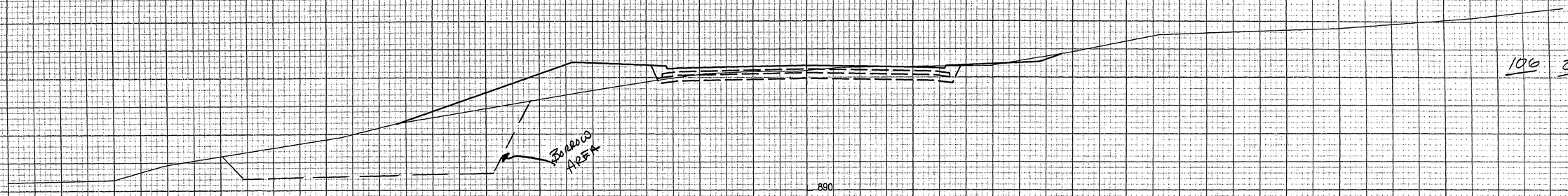
85 312

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: PBC
DATE: 3/9/91

STA. 364+00.00 TO 365+00.00 SCALE = 10 X 10

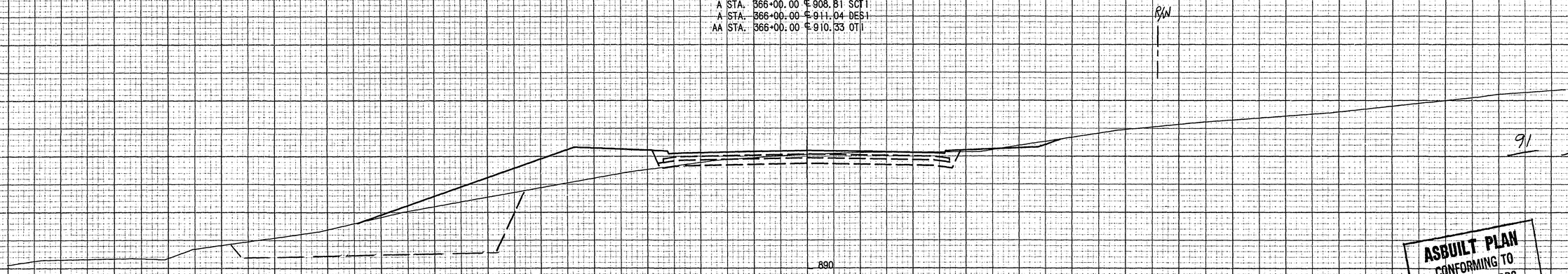
EXC EMB

A STA. 366+50.00 ℄ 911.60 SCT3
A STA. 366+50.00 ℄ 910.93 SCT2
A STA. 366+50.00 ℄ 909.94 SCT1
A STA. 366+50.00 ℄ 912.18 DES1
AA STA. 366+50.00 ℄ 911.25 OT1



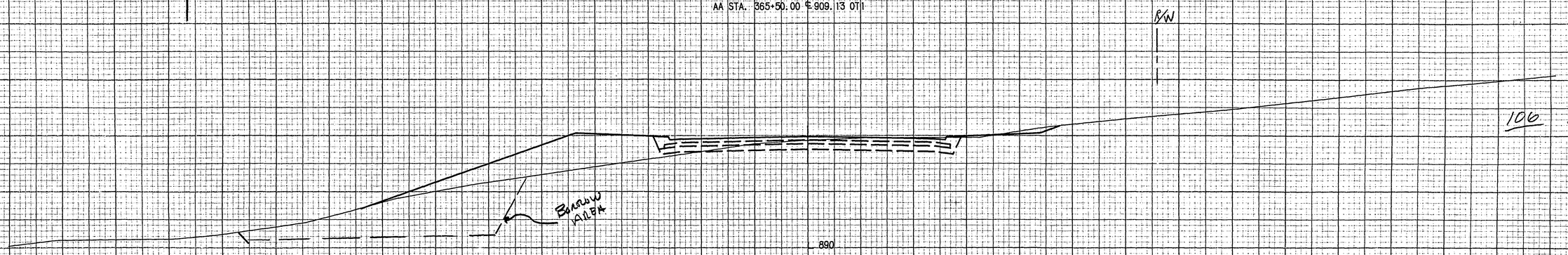
106 222

A STA. 366+00.00 ℄ 910.47 SCT3
A STA. 366+00.00 ℄ 909.79 SCT2
A STA. 366+00.00 ℄ 908.81 SCT1
A STA. 366+00.00 ℄ 911.04 DES1
AA STA. 366+00.00 ℄ 910.33 OT1



91 228

A STA. 365+50.00 ℄ 909.27 SCT3
A STA. 365+50.00 ℄ 908.59 SCT2
A STA. 365+50.00 ℄ 907.61 SCT1
A STA. 365+50.00 ℄ 909.84 DES1
AA STA. 365+50.00 ℄ 909.13 OT1



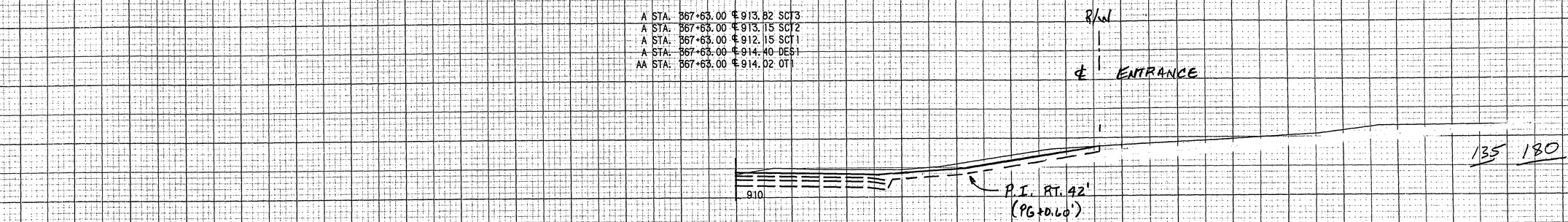
106 236

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/6/91

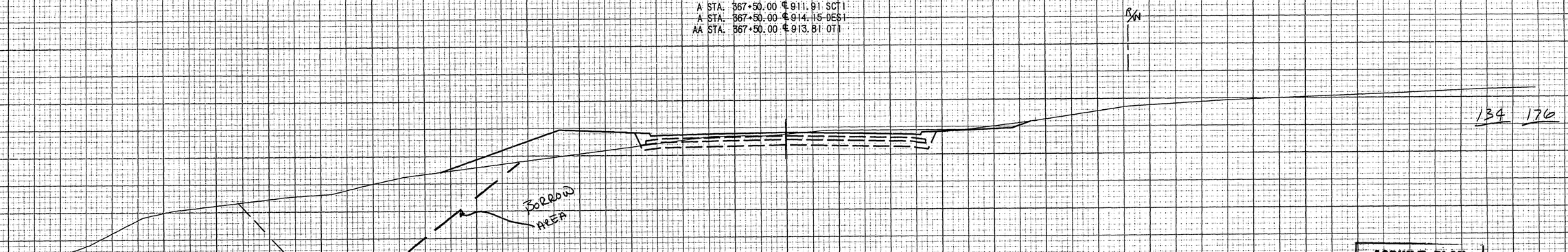
STA. 365+50.00 TO 366+50.00 SCALE = 10 X 10

EXC EMB

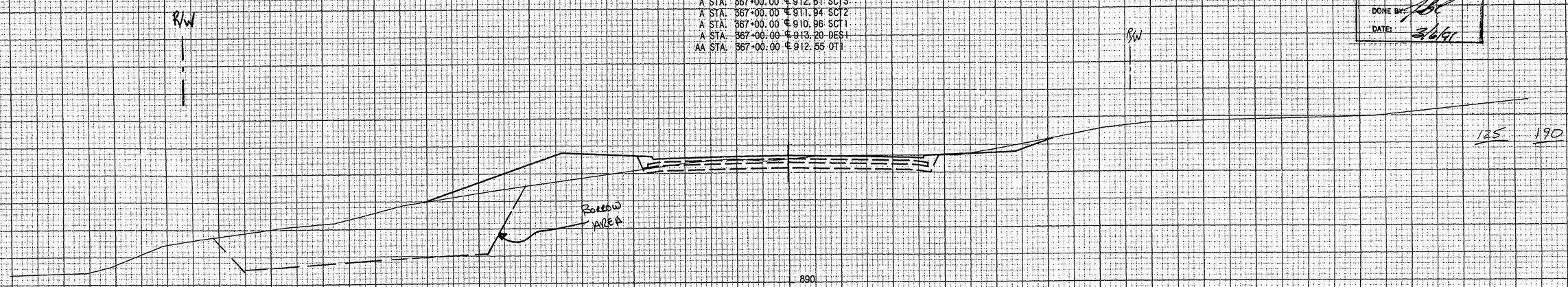
A STA. 367+63.00 ℄ 913.82 SCT3
A STA. 367+63.00 ℄ 913.15 SCT2
A STA. 367+63.00 ℄ 912.15 SCT1
A STA. 367+63.00 ℄ 914.40 DES1
AA STA. 367+63.00 ℄ 914.02 OT1



A STA. 367+50.00 ℄ 913.56 SCT3
A STA. 367+50.00 ℄ 912.89 SCT2
A STA. 367+50.00 ℄ 911.91 SCT1
A STA. 367+50.00 ℄ 914.15 DES1
AA STA. 367+50.00 ℄ 913.81 OT1



A STA. 367+00.00 ℄ 912.61 SCT3
A STA. 367+00.00 ℄ 911.94 SCT2
A STA. 367+00.00 ℄ 910.96 SCT1
A STA. 367+00.00 ℄ 913.20 DES1
AA STA. 367+00.00 ℄ 912.55 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/6/91

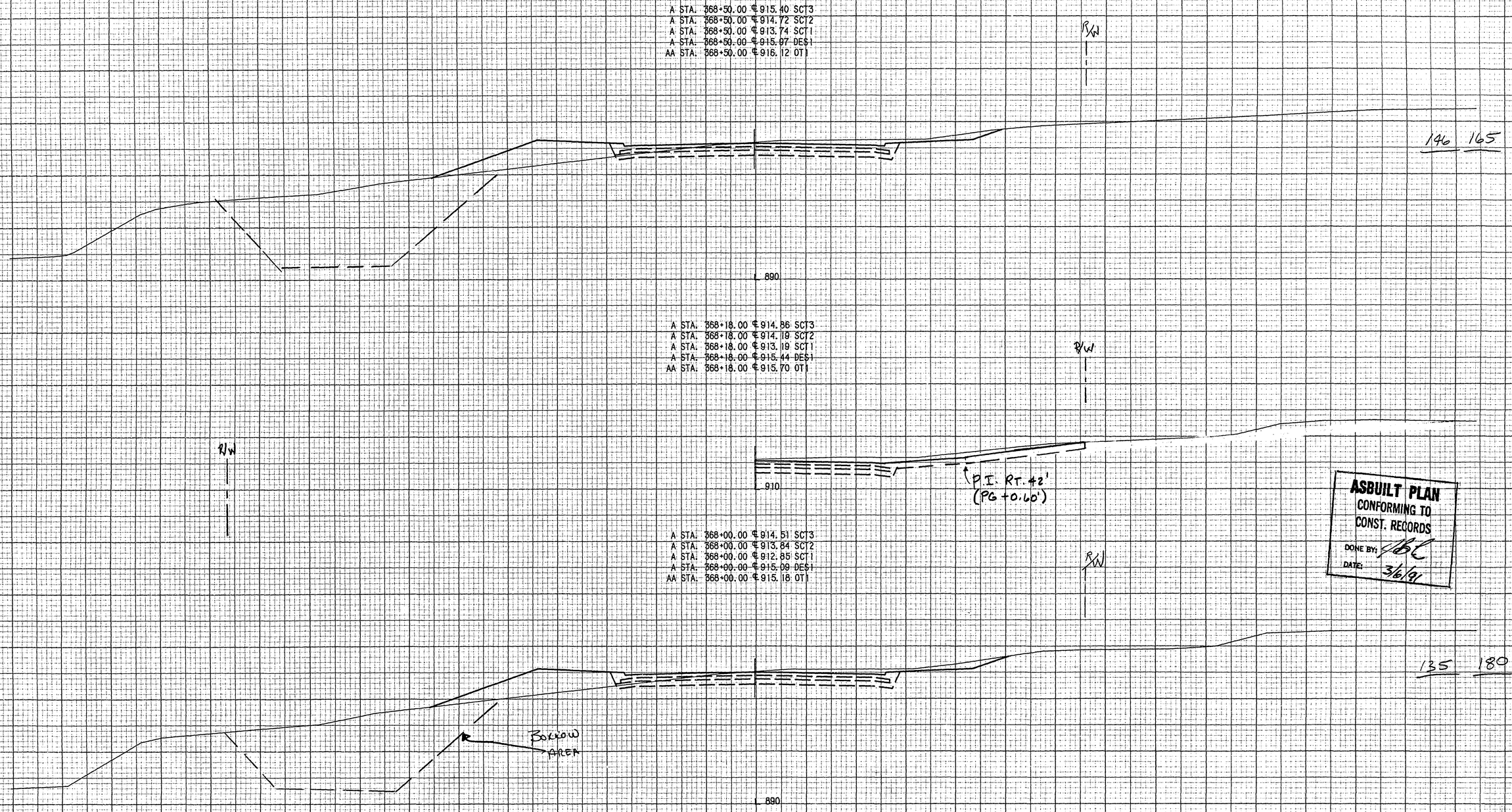
STA. 367+00.00 TO 367+63.00 SCALE 1" = 10' X 10'

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 36 OF 70 SHEETS

27-131

EXC EMB

A STA. 368+50.00 ℄ 915.40 SCT3
A STA. 368+50.00 ℄ 914.72 SCT2
A STA. 368+50.00 ℄ 913.74 SCT1
A STA. 368+50.00 ℄ 915.97 DES1
AA STA. 368+50.00 ℄ 916.12 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/6/91

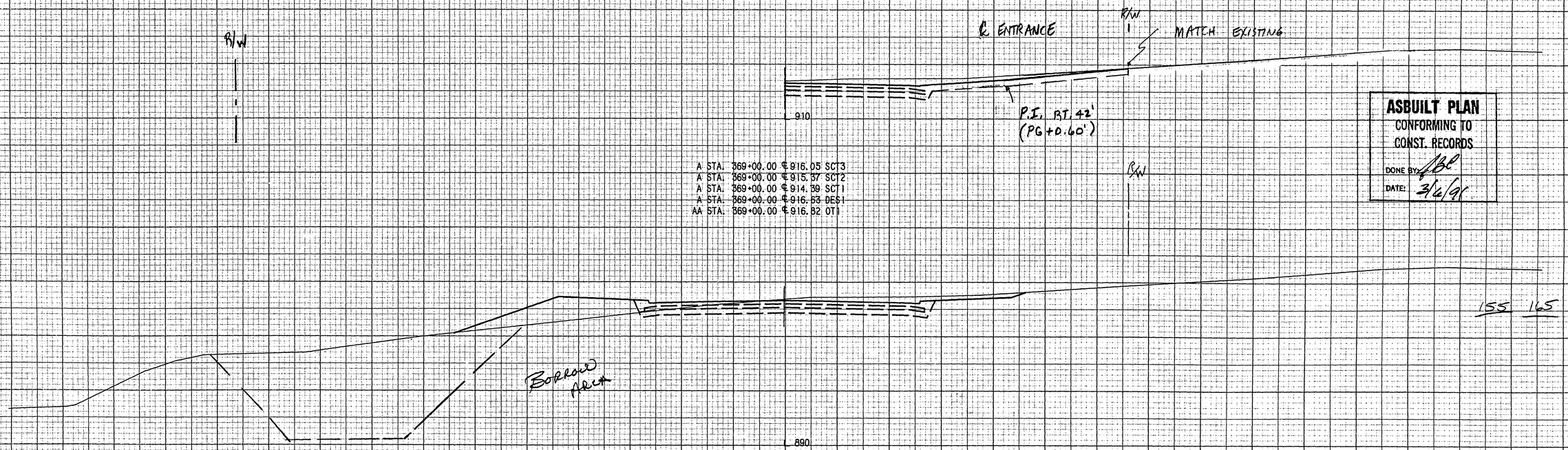
STA. 368+00.00 TO 368+50.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 37 OF 70 SHEETS

27-131

EXC EMB

A STA. 369+04.00 ℄ 916.09 SCT3
A STA. 369+04.00 ℄ 915.42 SCT2
A STA. 369+04.00 ℄ 914.42 SCT1
A STA. 369+04.00 ℄ 916.67 DES1
AA STA. 369+04.00 ℄ 916.97 OT1



A STA. 369+00.00 ℄ 916.05 SCT3
A STA. 369+00.00 ℄ 915.37 SCT2
A STA. 369+00.00 ℄ 914.39 SCT1
A STA. 369+00.00 ℄ 916.63 DES1
AA STA. 369+00.00 ℄ 916.82 OT1

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: LBC
DATE: 3/6/91

155 165

STA. 369+00.00 TO 369+04.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 38 OF 70 SHEETS

27-131

A STA. 371+50.00 ℄916.06 SCT3
A STA. 371+50.00 ℄915.39 SCT2
A STA. 371+50.00 ℄914.40 SCT1
A STA. 371+50.00 ℄916.65 DES1
AA STA. 371+50.00 ℄917.55 OT1

END TAPER FUTURE BIT. PATH

910

A STA. 371+00.00 ℄916.31 SCT3
A STA. 371+00.00 ℄915.64 SCT2
A STA. 371+00.00 ℄914.65 SCT1
A STA. 371+00.00 ℄916.90 DES1
AA STA. 371+00.00 ℄917.62 OT1

910

A STA. 370+50.00 ℄916.56 SCT3
A STA. 370+50.00 ℄915.88 SCT2
A STA. 370+50.00 ℄914.90 SCT1
A STA. 370+50.00 ℄917.13 DES1
AA STA. 370+50.00 ℄917.59 OT1

+50 BEGIN TAPER FUTURE BIT. PATH

910

A STA. 370+48.00 ℄916.57 SCT3
A STA. 370+48.00 ℄915.90 SCT2
A STA. 370+48.00 ℄914.90 SCT1
A STA. 370+48.00 ℄917.15 DES1
AA STA. 370+48.00 ℄917.64 OT1

℄ ENTRANCE

910

R/W 116.5'

A STA. 370+10.00 ℄916.64 SCT3
A STA. 370+10.00 ℄915.97 SCT2
A STA. 370+10.00 ℄914.97 SCT1
A STA. 370+10.00 ℄917.22 DES1
AA STA. 370+10.00 ℄917.53 OT1

℄ ENTRANCE

910

A STA. 370+00.00 ℄916.63 SCT3
A STA. 370+00.00 ℄915.95 SCT2
A STA. 370+00.00 ℄914.97 SCT1
A STA. 370+00.00 ℄917.21 DES1
AA STA. 370+00.00 ℄917.50 OT1

910

A STA. 369+50.00 ℄916.46 SCT3
A STA. 369+50.00 ℄915.78 SCT2
A STA. 369+50.00 ℄914.80 SCT1
A STA. 369+50.00 ℄917.04 DES1
AA STA. 369+50.00 ℄917.25 OT1

910

EXC EMB

201 68

R/W

167 118

R/W

158 99

R/W

137 188

* NOTE BORROW AREA FOR 371+69 TO 374+00 LEFT ONLY

BORROW AREA

ENTRANCE

FUTURE BIT. PATH

℄ ENTRANCE

BORROW AREA

R/W 116.5'

BORROW AREA

176 141

AS BUILT BORROW AREA 3/21/91

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: BBG
DATE: 3/6/91

A STA. 374+08.00 ℄914.73 SCT3
A STA. 374+08.00 ℄914.06 SCT2
A STA. 374+08.00 ℄913.06 SCT1
A STA. 374+08.00 ℄915.31 DES1
AA STA. 374+08.00 ℄917.10 OT1

910

A STA. 374+00.00 ℄914.79 SCT3
A STA. 374+00.00 ℄914.12 SCT2
A STA. 374+00.00 ℄913.13 SCT1
A STA. 374+00.00 ℄915.37 DES1
AA STA. 374+00.00 ℄917.14 OT1

910

307 56

A STA. 373+50.00 ℄915.07 SCT3
A STA. 373+50.00 ℄914.39 SCT2
A STA. 373+50.00 ℄913.41 SCT1
A STA. 373+50.00 ℄915.65 DES1
AA STA. 373+50.00 ℄917.41 OT1

910

278 56

A STA. 373+00.00 ℄915.31 SCT3
A STA. 373+00.00 ℄914.64 SCT2
A STA. 373+00.00 ℄913.66 SCT1
A STA. 373+00.00 ℄915.91 DES1
AA STA. 373+00.00 ℄917.52 OT1

910

277 56

A STA. 372+50.00 ℄915.56 SCT3
A STA. 372+50.00 ℄914.89 SCT2
A STA. 372+50.00 ℄913.91 SCT1
A STA. 372+50.00 ℄916.15 DES1
AA STA. 372+50.00 ℄917.52 OT1

910

243 56

A STA. 372+00.00 ℄915.81 SCT3
A STA. 372+00.00 ℄915.14 SCT2
A STA. 372+00.00 ℄914.15 SCT1
A STA. 372+00.00 ℄916.39 DES1
AA STA. 372+00.00 ℄917.42 OT1

910

210 61

A STA. 371+69.00 ℄915.97 SCT3
A STA. 371+69.00 ℄915.30 SCT2
A STA. 371+69.00 ℄914.30 SCT1
A STA. 371+69.00 ℄916.55 DES1
AA STA. 371+69.00 ℄917.47 OT1

910

R/W

EXC EMB

℄ ENTRANCE

MATCH EXISTING

S.E.

16" DIP

R/W

S.E.

16" DIP

R/W

S.E.

16" DIP

R/W

S.E.

16" DIP

R/W

S.E.

16" DIP

R/W

℄ ENTRANCE

MATCH

STA. 369+50.00 TO 374+08.00 SCALE = 10 X 10

27-131

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: BC
DATE: 3/12/91

A STA. 376+50.00 ℄ 912.50 SCT3
A STA. 376+50.00 ℄ 911.83 SCT2
A STA. 376+50.00 ℄ 910.84 SCT1
A STA. 376+50.00 ℄ 913.09 DES1
AA STA. 376+50.00 ℄ 914.24 OT1

EXC EMB

R/W
S.E.
16" DIP
251 60
AS BUILT BORROW AREA
900
AS BUILT BORROW AREA

A STA. 376+00.00 ℄ 912.96 SCT3
A STA. 376+00.00 ℄ 912.29 SCT2
A STA. 376+00.00 ℄ 911.30 SCT1
A STA. 376+00.00 ℄ 913.55 DES1
AA STA. 376+00.00 ℄ 914.90 OT1

R/W
S.E.
16" DIP
268 60
910

A STA. 375+71.00 ℄ 913.24 SCT3
A STA. 375+71.00 ℄ 912.57 SCT2
A STA. 375+71.00 ℄ 911.57 SCT1
A STA. 375+71.00 ℄ 913.82 DES1
AA STA. 375+71.00 ℄ 915.22 OT1

℄ ENTRANCE
MATCH
P.I.
S.E.
16" DIP
910

A STA. 375+50.00 ℄ 913.43 SCT3
A STA. 375+50.00 ℄ 912.75 SCT2
A STA. 375+50.00 ℄ 911.77 SCT1
A STA. 375+50.00 ℄ 914.01 DES1
AA STA. 375+50.00 ℄ 915.38 OT1

R/W
S.E.
16" DIP
274 56
910

A STA. 375+00.00 ℄ 913.89 SCT3
A STA. 375+00.00 ℄ 913.22 SCT2
A STA. 375+00.00 ℄ 912.23 SCT1
A STA. 375+00.00 ℄ 914.48 DES1
AA STA. 375+00.00 ℄ 915.94 OT1

S.E.
16" DIP
274 56
910

A STA. 374+50.00 ℄ 914.35 SCT3
A STA. 374+50.00 ℄ 913.68 SCT2
A STA. 374+50.00 ℄ 912.69 SCT1
A STA. 374+50.00 ℄ 914.95 DES1
AA STA. 374+50.00 ℄ 916.75 OT1

R/W 116.5'
R/W
S.E.
FUTURE BIT. PATH
16" DIP
316 56
910

A STA. 378+50.00 ℄ 910.73 SCT3
A STA. 378+50.00 ℄ 910.06 SCT2
A STA. 378+50.00 ℄ 909.07 SCT1
A STA. 378+50.00 ℄ 911.32 DES1
AA STA. 378+50.00 ℄ 912.49 OT1

EXC EMB

R/W
LOW POINT 378+57
155 201
16" DIP
900

A STA. 378+00.00 ℄ 911.11 SCT3
A STA. 378+00.00 ℄ 910.44 SCT2
A STA. 378+00.00 ℄ 909.45 SCT1
A STA. 378+00.00 ℄ 911.69 DES1
AA STA. 378+00.00 ℄ 912.34 OT1

R/W
GRADE TO DRAIN TO LOW POINT +57
+00 END TAPER FUTURE B.I. PATH
BIT PATH
VAR.
h
16" DIP
GRADE TO DRAIN
S.E.-150'
900

A STA. 377+50.00 ℄ 911.57 SCT3
A STA. 377+50.00 ℄ 910.90 SCT2
A STA. 377+50.00 ℄ 909.91 SCT1
A STA. 377+50.00 ℄ 912.15 DES1
AA STA. 377+50.00 ℄ 912.89 OT1

N. EDGE ENTRANCE
SE-150'
139 109
16" DIP
900

A STA. 377+42.00 ℄ 911.65 SCT3
A STA. 377+42.00 ℄ 910.98 SCT2
A STA. 377+42.00 ℄ 909.98 SCT1
A STA. 377+42.00 ℄ 912.23 DES1
AA STA. 377+42.00 ℄ 912.96 OT1

R/W
℄ ENTRANCE
MATCH
P.I. RT. 42' (PG+0.60)
16" DIP
900

A STA. 377+00.00 ℄ 912.04 SCT3
A STA. 377+00.00 ℄ 911.36 SCT2
A STA. 377+00.00 ℄ 910.38 SCT1
A STA. 377+00.00 ℄ 912.62 DES1
AA STA. 377+00.00 ℄ 913.47 OT1

R/W 116.5'
+00 BEGIN TAPER FUTURE B.T. PATH
914.5'
R/W
16" DIP
196 56
900

DATE	REVISED	BY
4/12/90	Sta. 377+50-378+50	B.J.

SCALE = 10 X 10
STA. 374+50.00 TO 378+50.00

27-131

A STA. 380+50.00 ℄ 911.63 SCT3
A STA. 380+50.00 ℄ 910.96 SCT2
A STA. 380+50.00 ℄ 909.97 SCT1
A STA. 380+50.00 ℄ 912.22 DES1
AA STA. 380+50.00 ℄ 912.70 OT1

EXC EMB

R/W

GRAVEL LOT

VAR. +2.0%

192 65

16" DIP

900

A STA. 382+50.00 ℄ 912.06 SCT3
A STA. 382+50.00 ℄ 911.39 SCT2
A STA. 382+50.00 ℄ 910.40 SCT1
A STA. 382+50.00 ℄ 912.64 DES1
AA STA. 382+50.00 ℄ 912.75 OT1

EXC EMB

R/W

146 79

16" DIP

900

A STA. 380+00.00 ℄ 911.39 SCT3
A STA. 380+00.00 ℄ 910.72 SCT2
A STA. 380+00.00 ℄ 909.73 SCT1
A STA. 380+00.00 ℄ 911.97 DES1
AA STA. 380+00.00 ℄ 912.74 OT1

R/W

GRAVEL LOT

VAR

175 94

16" DIP

900

A STA. 382+00.00 ℄ 912.30 SCT3
A STA. 382+00.00 ℄ 911.63 SCT2
A STA. 382+00.00 ℄ 910.65 SCT1
A STA. 382+00.00 ℄ 912.89 DES1
AA STA. 382+00.00 ℄ 912.82 OT1

R/W

143 76

16" DIP

(HIGH POINT 381+97)

900

A STA. 379+50.00 ℄ 911.14 SCT3
A STA. 379+50.00 ℄ 910.47 SCT2
A STA. 379+50.00 ℄ 909.48 SCT1
A STA. 379+50.00 ℄ 911.72 DES1
AA STA. 379+50.00 ℄ 912.68 OT1

R/W

GRAVEL PARKING LOT

VAR

174 137

16" DIP

900

A STA. 381+50.00 ℄ 912.13 SCT3
A STA. 381+50.00 ℄ 911.46 SCT2
A STA. 381+50.00 ℄ 910.47 SCT1
A STA. 381+50.00 ℄ 912.71 DES1
AA STA. 381+50.00 ℄ 912.76 OT1

R/W

154 69

16" DIP

900

AS BUILT BORROW AREA 3/12/91

A STA. 379+29.00 ℄ 911.04 SCT3
A STA. 379+29.00 ℄ 910.37 SCT2
A STA. 379+29.00 ℄ 909.37 SCT1
A STA. 379+29.00 ℄ 911.62 DES1
AA STA. 379+29.00 ℄ 912.67 OT1

EXISTING GRAVEL PARKING LOT

A STA. 381+00.00 ℄ 911.88 SCT3
A STA. 381+00.00 ℄ 911.21 SCT2
A STA. 381+00.00 ℄ 910.22 SCT1
A STA. 381+00.00 ℄ 912.47 DES1
AA STA. 381+00.00 ℄ 912.81 OT1

KIMBERLY LANE

R/W

℄ ENTRANCE

MATCH

VAR. +2.0%

SAWCUT

P.I. RT 42' (PG+0.60')

BLVD C.L.

253 66

16" DIP

900

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY:
DATE: 3/12/91

A STA. 379+00.00 ℄ 910.89 SCT3
A STA. 379+00.00 ℄ 910.22 SCT2
A STA. 379+00.00 ℄ 909.23 SCT1
A STA. 379+00.00 ℄ 911.47 DES1
AA STA. 379+00.00 ℄ 912.52 OT1

R/W

RAMSEY COUNTY PARKS & REC. (PROPOSED ℄ ENTRANCE)

A STA. 380+91.63 ℄ 911.84 SCT3
A STA. 380+91.63 ℄ 911.17 SCT2
A STA. 380+91.63 ℄ 910.18 SCT1
A STA. 380+91.63 ℄ 912.43 DES1
AA STA. 380+91.63 ℄ 912.83 OT1

℄ KIMBERLY LANE

R/W 116.5'

VAR

ASBUILT BORROW AREA

SAWCUT

178 175

20:1

16" DIP

900

27-131

STA. 379+00.00 TO 382+50.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 41 OF 70 SHEETS

A STA. 384+00.00 ℄ 911.12 SCT3
A STA. 384+00.00 ℄ 910.44 SCT2
A STA. 384+00.00 ℄ 909.46 SCT1
A STA. 384+00.00 ℄ 911.70 DES1
AA STA. 384+00.00 ℄ 911.55 OT1

STA. 384+25
15 L.F. 1" COPPER SERVICE
& CURB STOP BOX ASSEMBLY

EXC EMB

ENTRANCE

R/W MATCH

131 169

16" DIP

900

A STA. 383+96.00 ℄ 911.15 SCT3
A STA. 383+96.00 ℄ 910.48 SCT2
A STA. 383+96.00 ℄ 909.48 SCT1
A STA. 383+96.00 ℄ 911.73 DES1
AA STA. 383+96.00 ℄ 911.59 OT1

R/W ℄ ENTRANCE

MATCH

16" DIP

900

A STA. 383+50.00 ℄ 911.43 SCT3
A STA. 383+50.00 ℄ 910.76 SCT2
A STA. 383+50.00 ℄ 909.77 SCT1
A STA. 383+50.00 ℄ 912.01 DES1
AA STA. 383+50.00 ℄ 912.14 OT1

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABC
DATE: 3/12/91

119 136

16" DIP

900

AS BUILT
BORROW AREA
ABC 3/12/91

A STA. 383+00.00 ℄ 911.75 SCT3
A STA. 383+00.00 ℄ 911.07 SCT2
A STA. 383+00.00 ℄ 910.09 SCT1
A STA. 383+00.00 ℄ 912.32 DES1
AA STA. 383+00.00 ℄ 912.36 OT1

R/W

146 110

16" DIP

900

STA. 382+75
15 L.F. 1" COPPER SERVICE
& CURB STOP BOX ASSEMBLY

A STA. 382+64.00 ℄ 911.97 SCT3
A STA. 382+64.00 ℄ 911.30 SCT2
A STA. 382+64.00 ℄ 910.31 SCT1
A STA. 382+64.00 ℄ 912.55 DES1
AA STA. 382+64.00 ℄ 912.70 OT1

RAMSEY COUNTY
PARKS & REC.
(PROPOSED ENTRANCE)

R/W ℄ ENTRANCE

MATCH

VAR

16" DIP

900

27-131

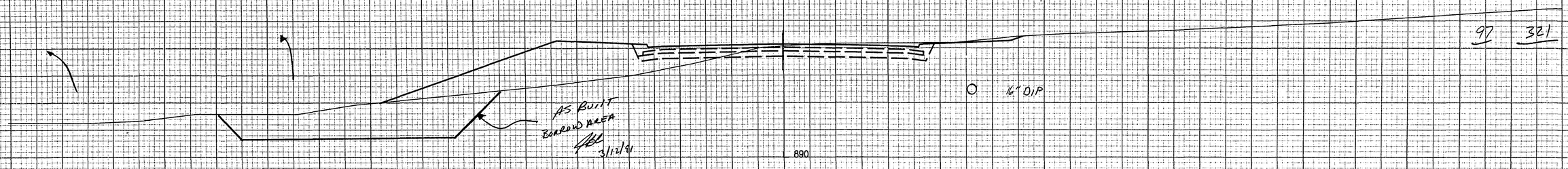
RAMSEY COUNTY S.A.P. 62-651-25 SHEET 42 OF 70 SHEETS

STA. 382+64.00 TO 384+00.00 SCALE = 10 X 10

EXC EMB

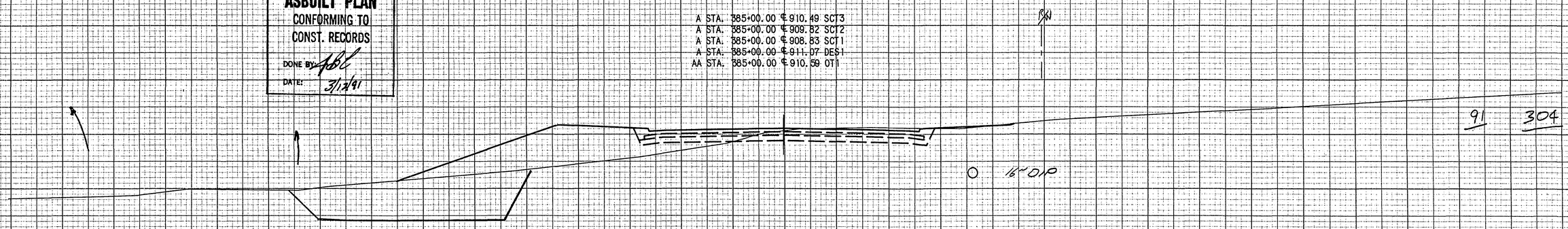
A STA. 385+75.00 ℄ 910.02 SCT3
A STA. 385+75.00 ℄ 909.35 SCT2
A STA. 385+75.00 ℄ 908.35 SCT1
A STA. 385+75.00 ℄ 910.60 DES1
AA STA. 385+75.00 ℄ 910.31 OT1

A STA. 385+50.00 ℄ 910.17 SCT3
A STA. 385+50.00 ℄ 909.50 SCT2
A STA. 385+50.00 ℄ 908.51 SCT1
A STA. 385+50.00 ℄ 910.75 DES1
AA STA. 385+50.00 ℄ 910.33 OT1

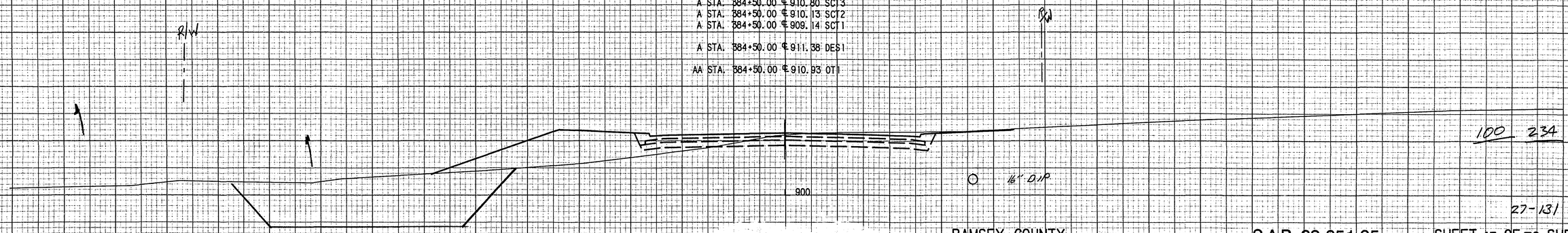


ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABC
DATE: 3/12/91

A STA. 385+00.00 ℄ 910.49 SCT3
A STA. 385+00.00 ℄ 909.82 SCT2
A STA. 385+00.00 ℄ 908.83 SCT1
A STA. 385+00.00 ℄ 911.07 DES1
AA STA. 385+00.00 ℄ 910.59 OT1



A STA. 384+50.00 ℄ 910.80 SCT3
A STA. 384+50.00 ℄ 910.13 SCT2
A STA. 384+50.00 ℄ 909.14 SCT1
A STA. 384+50.00 ℄ 911.38 DES1
AA STA. 384+50.00 ℄ 910.93 OT1



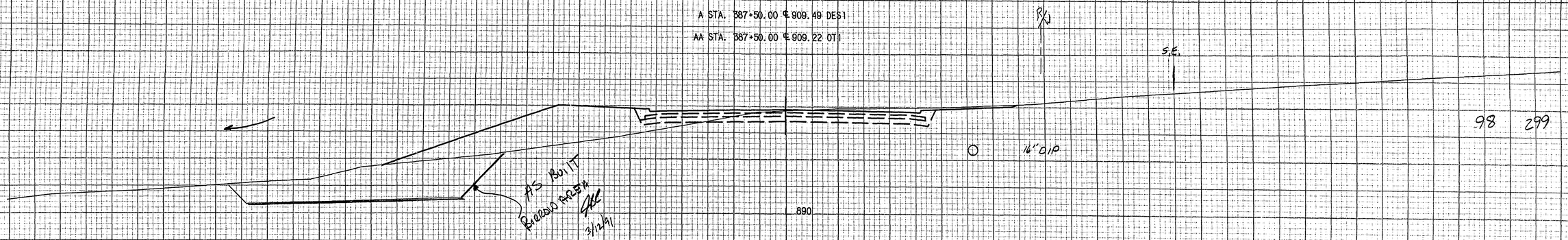
STA. 384+50.00 TO 385+75.00 SCALE: 1 IN. = 10 FT.

27-131

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 43 OF 70 SHEETS

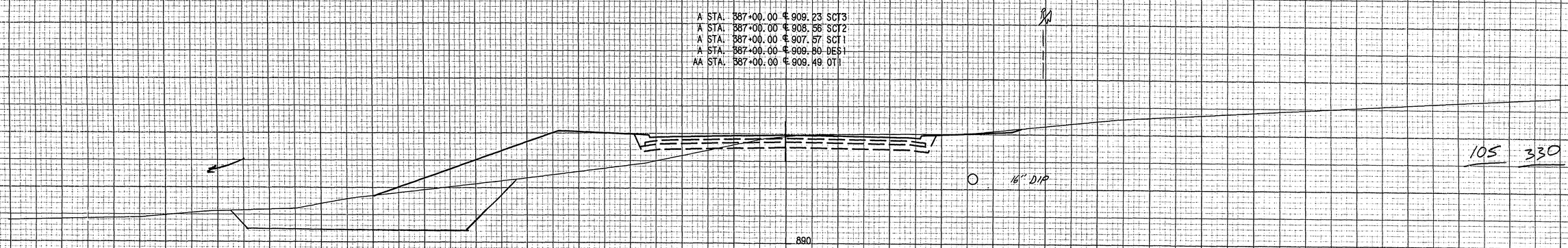
A STA. 387+50.00 ℄ 908.91 SCT3
A STA. 387+50.00 ℄ 908.24 SCT2
A STA. 387+50.00 ℄ 907.25 SCT1
A STA. 387+50.00 ℄ 909.49 DES1
AA STA. 387+50.00 ℄ 909.22 OT1

EXC EMB



98 299

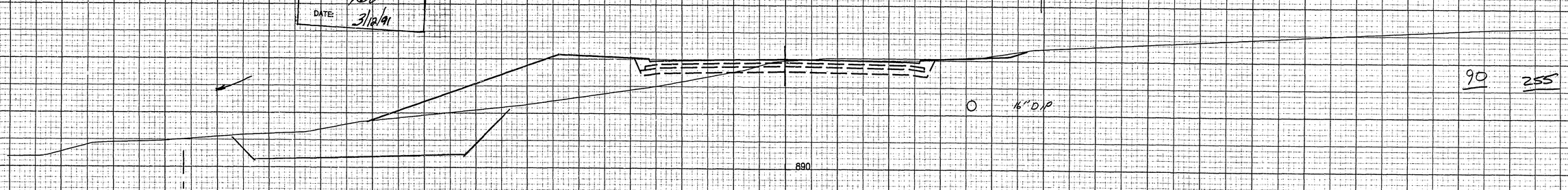
A STA. 387+00.00 ℄ 909.23 SCT3
A STA. 387+00.00 ℄ 908.56 SCT2
A STA. 387+00.00 ℄ 907.57 SCT1
A STA. 387+00.00 ℄ 909.80 DES1
AA STA. 387+00.00 ℄ 909.49 OT1



105 330

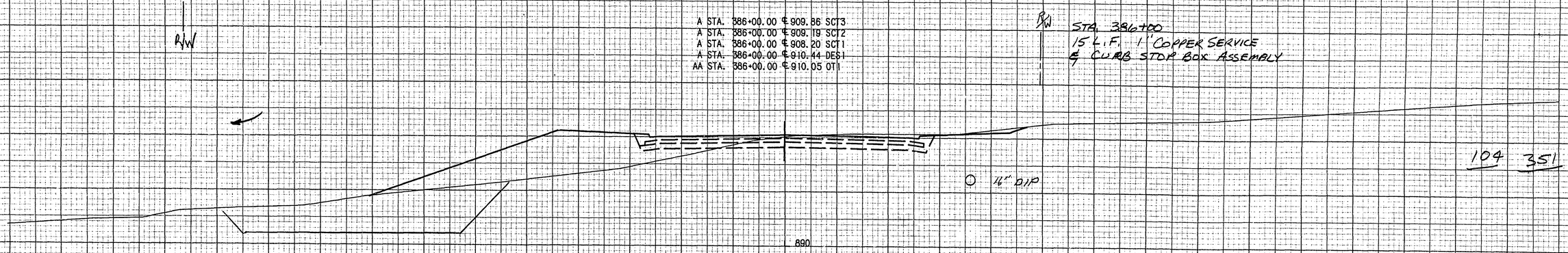
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: GBC
DATE: 3/12/91

A STA. 386+50.00 ℄ 909.54 SCT3
A STA. 386+50.00 ℄ 908.87 SCT2
A STA. 386+50.00 ℄ 907.88 SCT1
A STA. 386+50.00 ℄ 910.12 DES1
AA STA. 386+50.00 ℄ 909.75 OT1



90 255

A STA. 386+00.00 ℄ 909.86 SCT3
A STA. 386+00.00 ℄ 909.19 SCT2
A STA. 386+00.00 ℄ 908.20 SCT1
A STA. 386+00.00 ℄ 910.44 DES1
AA STA. 386+00.00 ℄ 910.05 OT1



104 351

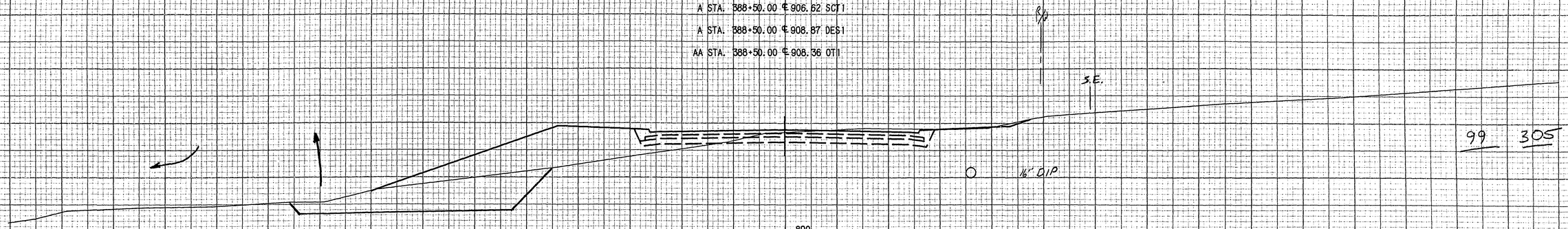
STA. 386+00.00 TO 387+50.00 SCALE = 10 X 10

27-131

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 44 OF 70 SHEETS

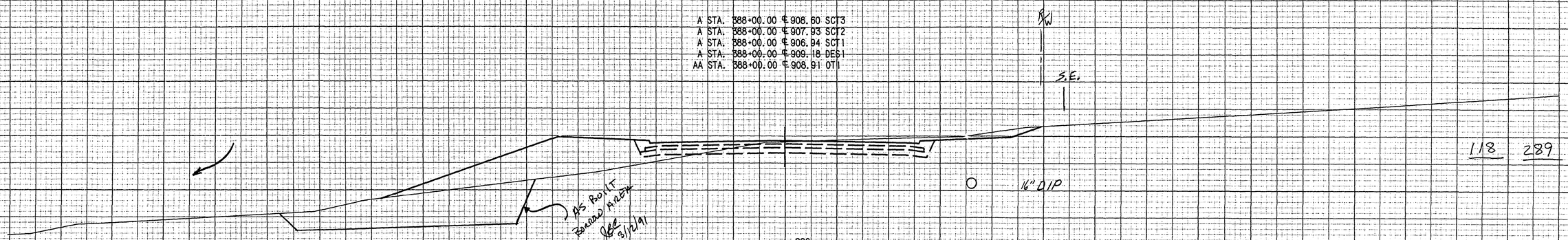
EXC EMB

A STA. 388+50.00 ℄ 908.28 SCT3
A STA. 388+50.00 ℄ 907.61 SCT2
A STA. 388+50.00 ℄ 906.62 SCT1
A STA. 388+50.00 ℄ 908.87 DES1
AA STA. 388+50.00 ℄ 908.36 OT1



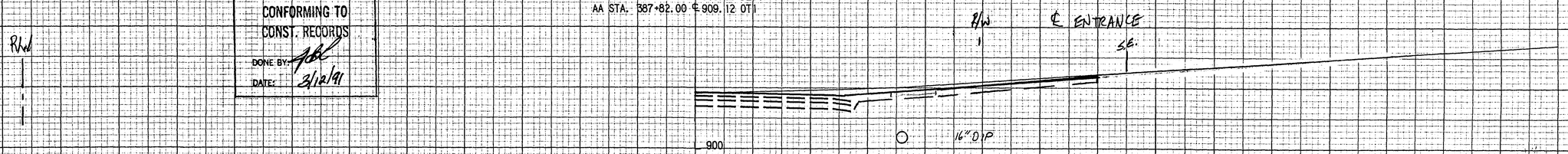
99 305

A STA. 388+00.00 ℄ 908.60 SCT3
A STA. 388+00.00 ℄ 907.93 SCT2
A STA. 388+00.00 ℄ 906.94 SCT1
A STA. 388+00.00 ℄ 909.18 DES1
AA STA. 388+00.00 ℄ 908.91 OT1

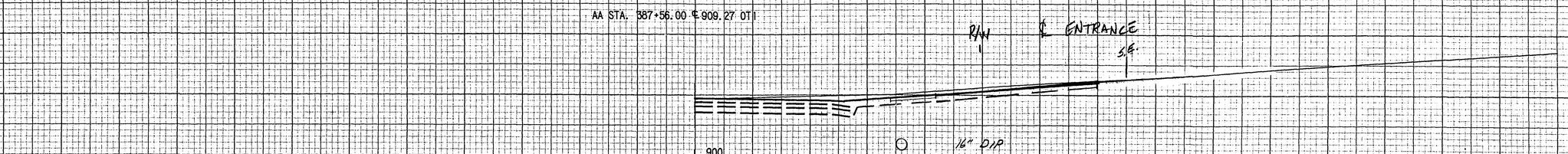


118 289

A STA. 387+82.00 ℄ 908.72 SCT3
A STA. 387+82.00 ℄ 908.05 SCT2
A STA. 387+82.00 ℄ 907.05 SCT1
A STA. 387+82.00 ℄ 909.30 DES1
AA STA. 387+82.00 ℄ 909.12 OT1



A STA. 387+56.00 ℄ 908.88 SCT3
A STA. 387+56.00 ℄ 908.21 SCT2
A STA. 387+56.00 ℄ 907.21 SCT1
A STA. 387+56.00 ℄ 909.46 DES1
AA STA. 387+56.00 ℄ 909.27 OT1



27-131

R/W

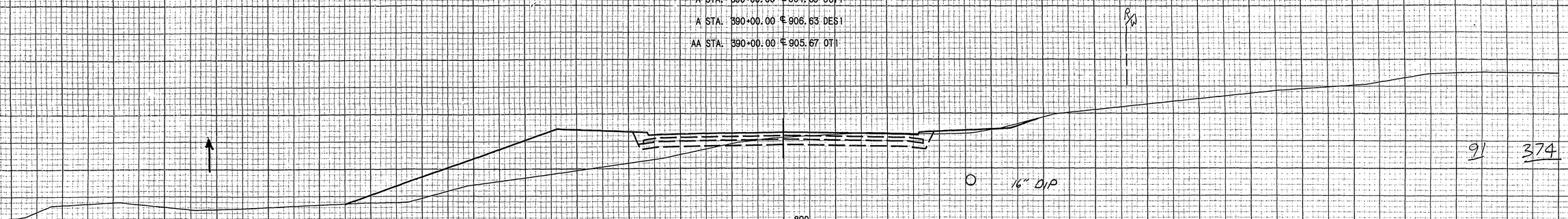
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: RLG
DATE: 3/12/91

STA. 387+56.00 TO 388+50.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 45 OF 70 SHEETS

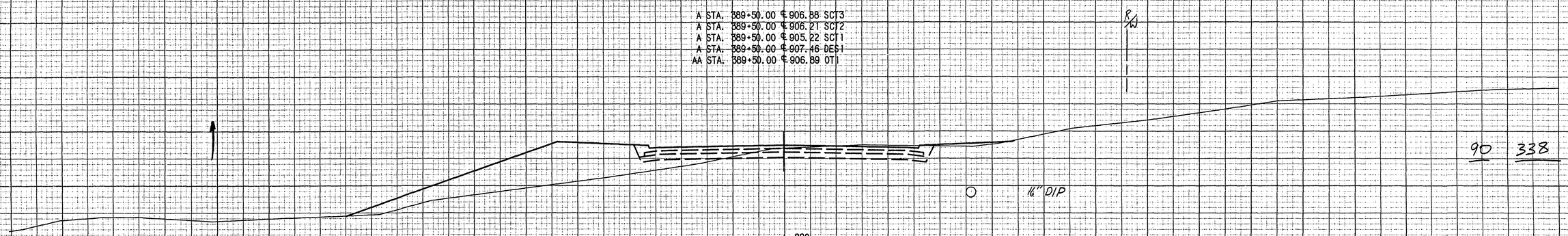
EXC EMB

A STA. 390+00.00 ℄ 906.05 SCT3
A STA. 390+00.00 ℄ 905.38 SCT2
A STA. 390+00.00 ℄ 904.39 SCT1
A STA. 390+00.00 ℄ 906.63 DES1
AA STA. 390+00.00 ℄ 905.67 OT1



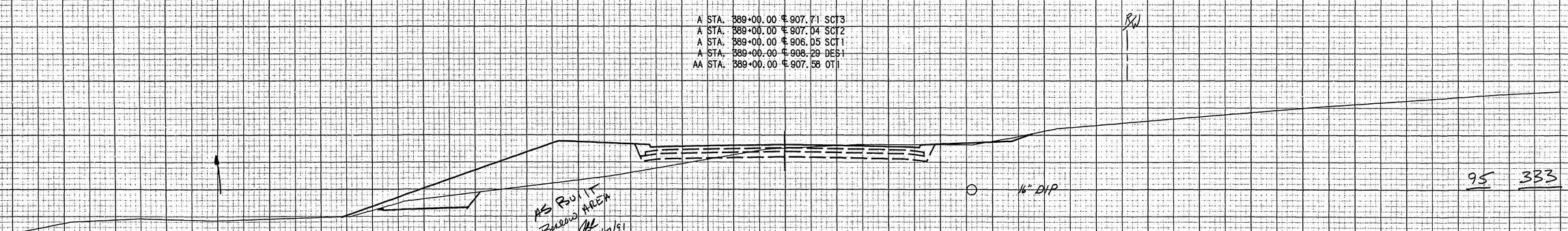
91 374

A STA. 389+50.00 ℄ 906.88 SCT3
A STA. 389+50.00 ℄ 906.21 SCT2
A STA. 389+50.00 ℄ 905.22 SCT1
A STA. 389+50.00 ℄ 907.46 DES1
AA STA. 389+50.00 ℄ 906.89 OT1



90 338

A STA. 389+00.00 ℄ 907.71 SCT3
A STA. 389+00.00 ℄ 907.04 SCT2
A STA. 389+00.00 ℄ 906.05 SCT1
A STA. 389+00.00 ℄ 908.29 DES1
AA STA. 389+00.00 ℄ 907.58 OT1

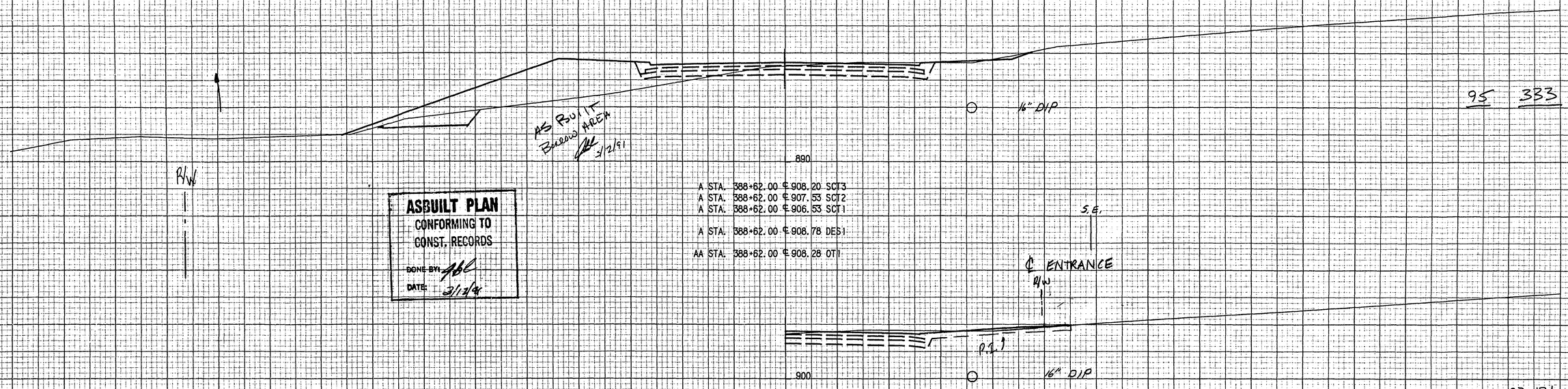


95 333

AS BUILT
BRIDGE AREA
3/12/91

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABC
DATE: 3/12/91

A STA. 388+62.00 ℄ 908.20 SCT3
A STA. 388+62.00 ℄ 907.53 SCT2
A STA. 388+62.00 ℄ 906.53 SCT1
A STA. 388+62.00 ℄ 908.78 DES1
AA STA. 388+62.00 ℄ 908.28 OT1

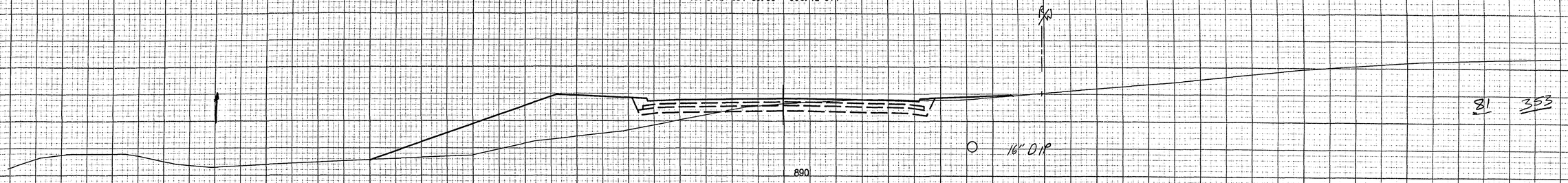


27-131

STA. 388+62.00 TO 390+00.00 SCALE = 10 X 10

EXC EMB

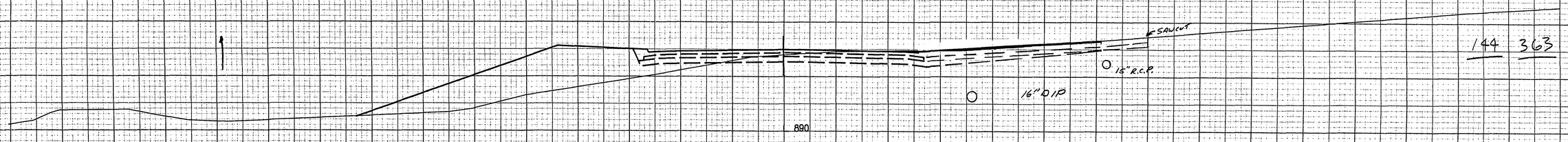
A STA. 391+50.00 ℄ 903.56 SCT3
A STA. 391+50.00 ℄ 902.89 SCT2
A STA. 391+50.00 ℄ 901.91 SCT1
A STA. 391+50.00 ℄ 904.15 DES1
AA STA. 391+50.00 ℄ 903.12 OT1



81 353

A STA. 391+00.00 ℄ 904.39 SCT3
A STA. 391+00.00 ℄ 903.72 SCT2
A STA. 391+00.00 ℄ 902.73 SCT1
A STA. 391+00.00 ℄ 904.98 DES1
AA STA. 391+00.00 ℄ 903.99 OT1

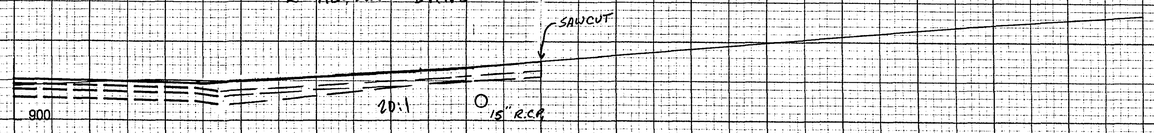
NE RADIUS – NELSON DRIVE

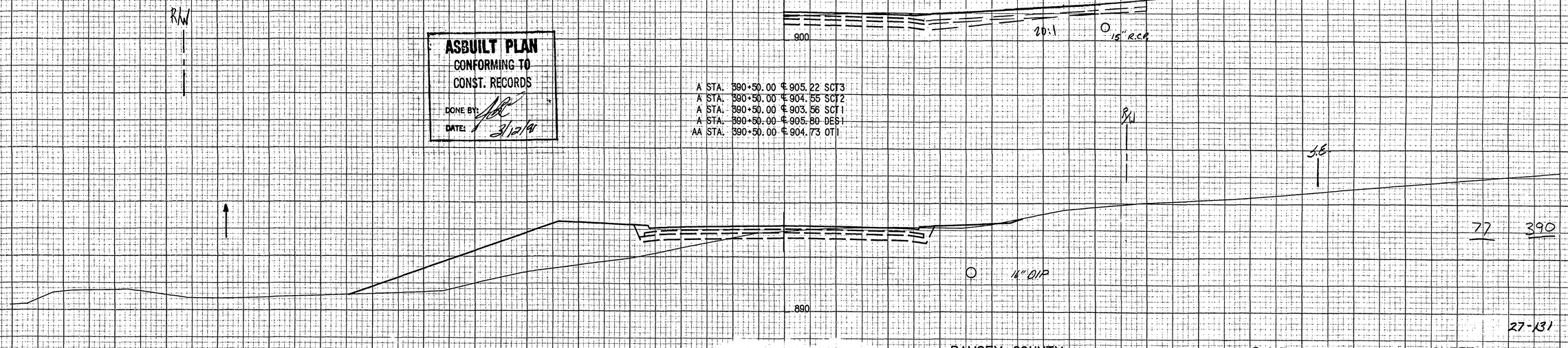


144 363

A STA. 390+88.29 ℄ 904.59 SCT3
A STA. 390+88.29 ℄ 903.92 SCT2
A STA. 390+88.29 ℄ 902.92 SCT1
A STA. 390+88.29 ℄ 905.17 DES1
AA STA. 390+88.29 ℄ 904.27 OT1

℄ NELSON DRIVE





ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/12/97

A STA. 390+50.00 ℄ 905.22 SCT3
A STA. 390+50.00 ℄ 904.55 SCT2
A STA. 390+50.00 ℄ 903.56 SCT1
A STA. 390+50.00 ℄ 905.80 DES1
AA STA. 390+50.00 ℄ 904.73 OT1

77 390

27-131

STA. 390+50.00 TO 391+50.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 47 OF 70 SHEETS

EXC EMB

A STA. 394+00.00 ℄ 898.21 SCT2
A STA. 394+00.00 ℄ 897.22 SCT1
A STA. 394+00.00 ℄ 899.46 DES1
AA STA. 394+00.00 ℄ 898.73 OT1

R/W
S.E.
R/W VAR
890
16" DIP

83 270

A STA. 393+50.00 ℄ 899.84 SCT3
A STA. 393+50.00 ℄ 899.17 SCT2
A STA. 393+50.00 ℄ 898.18 SCT1
A STA. 393+50.00 ℄ 900.42 DES1
AA STA. 393+50.00 ℄ 899.52 OT1

R/W
S.E.
890
16" DIP

82 288

A STA. 393+00.00 ℄ 900.81 SCT3
A STA. 393+00.00 ℄ 900.13 SCT2
A STA. 393+00.00 ℄ 899.15 SCT1
A STA. 393+00.00 ℄ 901.38 DES1
AA STA. 393+00.00 ℄ 900.26 OT1

R/W
S.E.
890

70 270

A STA. 392+50.00 ℄ 901.77 SCT3
A STA. 392+50.00 ℄ 901.10 SCT2
A STA. 392+50.00 ℄ 900.11 SCT1
A STA. 392+50.00 ℄ 902.35 DES1
AA STA. 392+50.00 ℄ 901.24 OT1

R/W
S.E.
16" DIP
890

77 322

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/12/91

A STA. 392+00.00 ℄ 902.72 SCT3
A STA. 392+00.00 ℄ 902.05 SCT2
A STA. 392+00.00 ℄ 901.06 SCT1
A STA. 392+00.00 ℄ 903.30 DES1
AA STA. 392+00.00 ℄ 902.21 OT1

R/W
R/W
16" DIP
890

70 348

27-131

STA. 392+00.00 TO 394+00.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 48 OF 70 SHEETS

MUCK GRAN	MUCK EXC	EXC	EMB
905	1094		238
1034	1109		216
263	213		209
136	221		
79	318		

A STA. 396+50.00 ℄ 894.65 DES1
AA STA. 396+50.00 ℄ 894.92 OT1

A STA. 396+00.00 ℄ 895.60 DES1
AA STA. 396+00.00 ℄ 895.40 OT1

A STA. 395+50.00 ℄ 896.56 DES1
AA STA. 395+50.00 ℄ 896.02 OT1

A STA. 395+00.00 ℄ 896.95 SCT3
A STA. 395+00.00 ℄ 896.28 SCT2
A STA. 395+00.00 ℄ 895.29 SCT1
A STA. 395+00.00 ℄ 897.52 DES1
AA STA. 395+00.00 ℄ 896.74 OT1

A STA. 394+88.66 ℄ 897.17 SCT3
A STA. 394+88.66 ℄ 896.50 SCT2
A STA. 394+88.66 ℄ 895.50 SCT1
A STA. 394+88.66 ℄ 897.75 DES1
AA STA. 394+88.66 ℄ 896.99 OT1

A STA. 394+50.00 ℄ 897.91 SCT3
A STA. 394+50.00 ℄ 897.24 SCT2
A STA. 394+50.00 ℄ 896.25 SCT1

A STA. 394+50.00 ℄ 898.49 DES1
AA STA. 394+50.00 ℄ 897.70 OT1

A STA. 394+00.00 ℄ 898.88 SCT3

R/W
DRAINAGE ESMT.
894.1
890
884.0±
16" DIP
894.5
884.0±
SEDIMENT POND NO. 3
889
892.0±
(CONSTRUCT DITCH SWALE LAKE OAKS DRIVE to LAKE BEACH DRIVE)
395+00 CONC. CURB RT. 59' EL. 896.8± (CB) - REMOVE
SAWCUT
20:1
15" R.C.P.
395+00 END SUBCUT FOR UNIFORMITY & COMPACTION BEGIN MUCK EXCAVATION WITH 20:1 TAPER
℄ LAKE OAKS DRIVE
394+72 CONC. CURB RT. 55' EL. 896.8± (CB) - REMOVE
VAR.
STA. 394+78 EXISTING CULVERT TO MARSDEN LAKE

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY:
DATE: 8/29/84

STA. 394+50.00 TO 396+50.00 SCALE = 10 X 10

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 49 OF 70 SHEETS

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	MUCK GRAN	MUCK EXC	EMB
A STA. 400+00.00 ℄ 895.60 DES1 AA STA. 400+00.00 ℄ 895.59 OT1	1060	1122	247
A STA. 399+50.00 ℄ 895.11 DES1 AA STA. 399+50.00 ℄ 895.04 OT1	980	1128	246
A STA. 399+00.00 ℄ 894.61 DES1 AA STA. 399+00.00 ℄ 894.58 OT1	893	1034	217
A STA. 398+50.00 ℄ 894.12 DES1 AA STA. 398+50.00 ℄ 894.35 OT1	1177	1439	256
A STA. 398+00.00 ℄ 893.73 DES1 AA STA. 398+00.00 ℄ 894.37 OT1	1092	1448	269
A STA. 397+50.00 ℄ 893.67 DES1 AA STA. 397+50.00 ℄ 894.48 OT1	957	1177	190
A STA. 397+00.00 ℄ 893.98 DES1 AA STA. 397+00.00 ℄ 894.58 OT1	830	1038	199
		27-131	

890 SD RT. 49' ±
TC = 893.0 ±
INV = 890.6 ±

AS BUILT MUCK AREAS

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: ABL
DATE: 3/5/91

SCALE = 10 X 10

STA. 397+00.00 TO 400+00.00

RAMSEY COUNTY

S.A.P. 62-651-25

SHEET 50 OF 70 SHEETS

A STA. 402+00.00 ℄ 896.97 SCT3
A STA. 402+00.00 ℄ 896.30 SCT2
A STA. 402+00.00 ℄ 895.31 SCT1
A STA. 402+00.00 ℄ 897.57 DES1
AA STA. 402+00.00 ℄ 897.76 OT1

MUCK GRAN	MUCK EXC	EMB	EXC.
			56 177

B/W

890

16" DIP

A STA. 401+88.00 ℄ 897.45 DES1
AA STA. 401+88.00 ℄ 897.67 OT1

℄ ENTRANCE (ARSENAL)

20:1

890

16" DIP

BEGIN 1' SUBCUT FOR UNIFORMITY & COMPACTION
END MUCK EXCAVATION STA. 401+80±

A STA. 401+50.00 ℄ 897.07 DES1
AA STA. 401+50.00 ℄ 897.34 OT1

B/W

B/W

FUTURE BIT. PATH

95 210 16

890

884.3±

16" DIP

B/W

A STA. 401+00.00 ℄ 896.57 DES1
AA STA. 401+00.00 ℄ 896.61 OT1

S.E.

641 791 268

890

888.0±

16" DIP

400+69 CONC. CURB RT. B3 El. 895.5± (CB)

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/18/91

A STA. 400+53.84 ℄ 896.13 DES1
AA STA. 400+53.84 ℄ 896.16 OT1

℄ LAKE BEACH DRIVE

SAWCUT

890

16" DIP

B/W

FUTURE BIT. PATH

A STA. 400+50.00 ℄ 896.08 DES1
AA STA. 400+50.00 ℄ 896.11 OT1

LAKE BEACH DRIVE

SAWCUT

3:1

3:1

APRON 143

890

891.0±

20:1

AS BUILT MUCK AREA 3/5/91

1192 1362 92

400+37 CONCURB RT. B3 El. 895.4 (CB)

27-131

16" DIP

STA. 400+50.00 TO 402+00.00 SCALE = 10 X 10

RAMSEY COUNTY

S.A.P. 62-651-25

SHEET 51 OF 70 SHEETS

EXC EMB

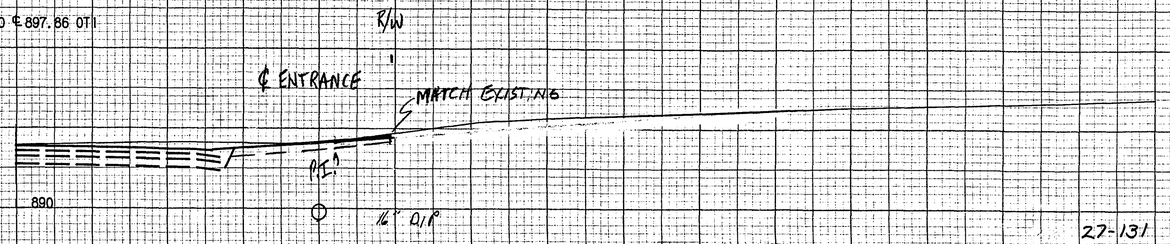
R/W

A STA. 402+20.00 ℄ 897.18 SCT3
A STA. 402+20.00 ℄ 896.51 SCT2
A STA. 402+20.00 ℄ 895.51 SCT1

A STA. 402+20.00 ℄ 897.76 DES1

AA STA. 402+20.00 ℄ 897.86 OT1

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/13/91



STA. 402+20.00 SCALE = 10 X 10

27-131

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 52 OF 70 SHEETS

A STA. 404+50.00 ℄ 899.43 SCT3
A STA. 404+50.00 ℄ 898.75 SCT2
A STA. 404+50.00 ℄ 897.77 SCT1
A STA. 404+50.00 ℄ 900.00 DES1
AA STA. 404+50.00 ℄ 899.67 OT1

EXC EMB

R/W

S.E.

147 76

AS BUILT BASELINE AREA 3/12/91

16" DIP

890

A STA. 406+50.00 ℄ 900.67 SCT3
A STA. 406+50.00 ℄ 899.99 SCT2
A STA. 406+50.00 ℄ 899.01 SCT1
A STA. 406+50.00 ℄ 901.25 DES1
AA STA. 406+50.00 ℄ 901.54 OT1

EXC EMB

STA. 406+30 APRON 149 DRAINAGE EASEMENT

10'

VAR

153 113

16" DIP

890

A STA. 404+00.00 ℄ 898.93 SCT3
A STA. 404+00.00 ℄ 898.26 SCT2
A STA. 404+00.00 ℄ 897.28 SCT1
A STA. 404+00.00 ℄ 899.52 DES1
AA STA. 404+00.00 ℄ 899.26 OT1

R/W

S.E.

160 56

16" DIP

890

A STA. 406+00.00 ℄ 900.42 SCT3
A STA. 406+00.00 ℄ 899.74 SCT2
A STA. 406+00.00 ℄ 898.76 SCT1
A STA. 406+00.00 ℄ 901.00 DES1
AA STA. 406+00.00 ℄ 901.20 OT1

S.E.

181 68

16" DIP

890

A STA. 403+50.00 ℄ 898.44 SCT3
A STA. 403+50.00 ℄ 897.77 SCT2
A STA. 403+50.00 ℄ 896.79 SCT1
A STA. 403+50.00 ℄ 899.03 DES1
AA STA. 403+50.00 ℄ 898.84 OT1

R/W

146 56

AS BUILT BASELINE AREA 3/12/91

16" DIP

890

A STA. 405+50.00 ℄ 900.17 SCT3
A STA. 405+50.00 ℄ 899.49 SCT2
A STA. 405+50.00 ℄ 898.51 SCT1
A STA. 405+50.00 ℄ 900.75 DES1
AA STA. 405+50.00 ℄ 900.81 OT1

R/W

S.E.

170 71

16" DIP

890

A STA. 403+00.00 ℄ 897.95 SCT3
A STA. 403+00.00 ℄ 897.28 SCT2
A STA. 403+00.00 ℄ 896.30 SCT1
A STA. 403+00.00 ℄ 898.54 DES1
AA STA. 403+00.00 ℄ 898.37 OT1

R/W

148 56

16" DIP

890

A STA. 405+08.00 ℄ 899.95 SCT3
A STA. 405+08.00 ℄ 899.28 SCT2
A STA. 405+08.00 ℄ 898.28 SCT1
A STA. 405+08.00 ℄ 900.53 DES1
AA STA. 405+08.00 ℄ 900.46 OT1

R/W S.E.

℄ ENTRANCE

16" DIP

890

FUTURE BIT PATH

VAR.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: JBK
DATE: 3/12/91

A STA. 402+50.00 ℄ 897.46 SCT3
A STA. 402+50.00 ℄ 896.79 SCT2
A STA. 402+50.00 ℄ 895.80 SCT1
A STA. 402+50.00 ℄ 898.04 DES1
AA STA. 402+50.00 ℄ 897.84 OT1

402+77 ℄ BIT ENTRANCE
MATCH @ R/W 49.5' RT

R/W 116.5'

R/W

151 63

16" DIP

890

R/W 116.5'

FUTURE BIT PATH

A STA. 405+00.00 ℄ 899.89 SCT3
A STA. 405+00.00 ℄ 899.21 SCT2
A STA. 405+00.00 ℄ 898.23 SCT1
A STA. 405+00.00 ℄ 900.46 DES1
AA STA. 405+00.00 ℄ 900.27 OT1

R/W

S.E.

132 86

16" DIP

890

DATE	REVISED	BY
07/90	406+50	BJ.

STA. 402+50.00 TO 406+50.00 SCALE = 10' X 10'

27-131

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 53 OF 70 SHEETS

A STA. 408+50.00 ℄ 900.83 SCT3
A STA. 408+50.00 ℄ 900.15 SCT2
A STA. 408+50.00 ℄ 899.17 SCT1
A STA. 408+50.00 ℄ 901.41 DES1
AA STA. 408+50.00 ℄ 901.37 OT1

EXC EMB

R/W S.E. 165 110

16" DIP

890

AS BUILT BORROW AREA 3/22/91

TOE 1' THEN UP 1:1 110'

A STA. 408+00.00 ℄ 901.31 SCT3
A STA. 408+00.00 ℄ 900.64 SCT2
A STA. 408+00.00 ℄ 899.65 SCT1
A STA. 408+00.00 ℄ 901.89 DES1
AA STA. 408+00.00 ℄ 901.63 OT1

R/W S.E. 112 253

16" DIP

890

108 5' THEN UP 1:1 TO 112'

A STA. 407+50.00 ℄ 901.17 SCT3
A STA. 407+50.00 ℄ 900.49 SCT2
A STA. 407+50.00 ℄ 899.51 SCT1
A STA. 407+50.00 ℄ 901.74 DES1
AA STA. 407+50.00 ℄ 901.63 OT1

R/W S.E. 113 130

16" DIP

890

10 80' LEFT THEN 1:1 UP TO 112'

A STA. 407+22.00 ℄ 901.03 SCT3
A STA. 407+22.00 ℄ 900.36 SCT2
A STA. 407+22.00 ℄ 899.36 SCT1
A STA. 407+22.00 ℄ 901.61 DES1
AA STA. 407+22.00 ℄ 901.74 OT1

℄ ENTRANCE

R/W S.E.

P.I. RT 42' (PG+0.60)

16" DIP

890

A STA. 407+00.00 ℄ 900.92 SCT3
A STA. 407+00.00 ℄ 900.24 SCT2
A STA. 407+00.00 ℄ 899.26 SCT1
A STA. 407+00.00 ℄ 901.49 DES1
AA STA. 407+00.00 ℄ 901.54 OT1

R/W 116.5'

FUTURE BIT PATH

R/W S.E. 137 213

16" DIP

890

70 89' LEFT THEN 1:1 UP TO 112' LEFT

A STA. 410+00.00 ℄ 898.96 SCT3
A STA. 410+00.00 ℄ 898.29 SCT2
A STA. 410+00.00 ℄ 897.30 SCT1
A STA. 410+00.00 ℄ 899.55 DES1
AA STA. 410+00.00 ℄ 899.06 OT1

EXC EMB

R/W S.E. 114 108

16" DIP

890

A STA. 409+92.00 ℄ 899.11 SCT3
A STA. 409+92.00 ℄ 898.44 SCT2
A STA. 409+92.00 ℄ 897.44 SCT1
A STA. 409+92.00 ℄ 899.69 DES1
AA STA. 409+92.00 ℄ 899.22 OT1

R/W ℄ ENTRANCE

16" DIP

890

A STA. 409+50.00 ℄ 899.65 SCT3
A STA. 409+50.00 ℄ 898.97 SCT2
A STA. 409+50.00 ℄ 897.99 SCT1
A STA. 409+50.00 ℄ 900.22 DES1
AA STA. 409+50.00 ℄ 899.87 OT1

18' R/W

END KEYSTONE RETAINING WALL @ STA. 409+48±

16" DIP

890

SEE WALL DETAILS SHEET NO. 10

114 108

AS BUILT BORROW AREA 98'

A STA. 409+00.00 ℄ 900.24 SCT3
A STA. 409+00.00 ℄ 899.56 SCT2
A STA. 409+00.00 ℄ 898.58 SCT1
A STA. 409+00.00 ℄ 900.82 DES1
AA STA. 409+00.00 ℄ 900.68 OT1

FUTURE BIT PATH

18' R/W

16" DIP

890

175 106

A STA. 408+86.00 ℄ 900.41 SCT3
A STA. 408+86.00 ℄ 899.74 SCT2
A STA. 408+86.00 ℄ 898.74 SCT1
A STA. 408+86.00 ℄ 900.99 DES1
AA STA. 408+86.00 ℄ 900.98 OT1

R/W SEE WALL DETAILS SHEET NO. 10

℄ ENTRANCE

18'

BEGIN KEYSTONE RETAINING WALL @ STA. 408+73±

S.E. 84

16" DIP

890

27-131

ASBUILT PLAN
CONFORMING TO CONST. RECORDS
DONE BY: RBL
DATE: 3/12/91

DATE	REVISION
5/31	PRECAST WALL & ENTRANCE

SCALE = 10 X 10

STA. 407+00.00 TO 410+00.00

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 54 OF 70 SHEETS

A STA. 412+14.00 ℄ 894.10 SCT3
A STA. 412+14.00 ℄ 893.43 SCT2
A STA. 412+14.00 ℄ 892.43 SCT1
A STA. 412+14.00 ℄ 894.88 DES1
AA STA. 412+14.00 ℄ 895.38 OT1

EXC EMB

EXC EMB

ENTRANCE

890

A STA. 412+00.00 ℄ 894.42 SCT3
A STA. 412+00.00 ℄ 893.74 SCT2
A STA. 412+00.00 ℄ 892.76 SCT1
A STA. 412+00.00 ℄ 895.00 DES1
AA STA. 412+00.00 ℄ 895.65 OT1

14" DIP 9" PVC

183 61

890

16" DIP 9" PVC

A STA. 411+93.00 ℄ 894.58 SCT3
A STA. 411+93.00 ℄ 893.91 SCT2
A STA. 411+93.00 ℄ 892.91 SCT1
A STA. 411+93.00 ℄ 895.16 DES1
AA STA. 411+93.00 ℄ 895.90 OT1

℄ ENTRANCE

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/12/91

890

16" DIP

A STA. 411+50.00 ℄ 895.58 SCT3
A STA. 411+50.00 ℄ 894.90 SCT2
A STA. 411+50.00 ℄ 893.92 SCT1
A STA. 411+50.00 ℄ 896.16 DES1
AA STA. 411+50.00 ℄ 896.69 OT1

To 89' Then 3:1 to 108'

As Built Borrow Area SBC 3/12/91

890

16" DIP

180 60

A STA. 411+00.00 ℄ 896.74 SCT3
A STA. 411+00.00 ℄ 896.06 SCT2
A STA. 411+00.00 ℄ 895.08 SCT1
A STA. 411+00.00 ℄ 897.32 DES1
AA STA. 411+00.00 ℄ 897.42 OT1

℄ ENTRANCE

To 85' then up 1:1 to 106'

As Built Borrow Area

890

16" DIP

160 56

A STA. 410+50.00 ℄ 897.90 SCT3
A STA. 410+50.00 ℄ 897.22 SCT2
A STA. 410+50.00 ℄ 896.24 SCT1
A STA. 410+50.00 ℄ 898.48 DES1
AA STA. 410+50.00 ℄ 898.15 OT1

R/W

S.E.

R/W 116.5'

278 76

890

16" DIP

To 82' then up 1:1 to 110

BEGIN MUCK EXCAVATION
STA. 413 END 1' SUBCUT FOR UNIFORMITY & COMPACTION

A STA. 413+00.00 ℄ 892.21 SCT3
A STA. 413+00.00 ℄ 891.54 SCT2
A STA. 413+00.00 ℄ 890.55 SCT1
A STA. 413+00.00 ℄ 892.78 DES1
AA STA. 413+00.00 ℄ 893.51 OT1

R/W

S.E.

16" DIP 9" PVC

890

A STA. 412+50.00 ℄ 893.26 SCT3
A STA. 412+50.00 ℄ 892.58 SCT2
A STA. 412+50.00 ℄ 891.60 SCT1
A STA. 412+50.00 ℄ 893.83 DES1
AA STA. 412+50.00 ℄ 894.49 OT1

As Built Muck Area SBC 3/6/91

Taper Muck 412+50 to 413+00

R/W

R/W 116.5'

890

As Built Muck Area 3/6/91

16" DIP 9" PVC

STA. 410+50.00 TO 413+00.00 SCALE 1" = 10'

RAMSEY COUNTY

S.A.P. 62-651-25

SHEET 55 OF 70 SHEETS

27-131

MUCK GRAN	MUCK EXC	EMB
748	785	260
1954	2120	406
3467	3951	647

A STA. 415+18.83 ℄ 891.58 DES1
AA STA. 415+18.83 ℄ 891.19 OT1

℄ LAKE AVENUE

E.R.

SAWCUT

15" RCP

VAR

16" DIP

880

A STA. 415+00.00 ℄ 891.67 DES1
AA STA. 415+00.00 ℄ 891.52 OT1

BOULEVARD LAKE AVENUE

S.C.

VAR.

16" DIP

9" PVC

880

882.0±

A STA. 414+50.00 ℄ 891.92 DES1
AA STA. 414+50.00 ℄ 890.81 OT1

S.E.

16" DIP

9" PVC

880

873.0±

A STA. 414+00.00 ℄ 892.18 DES1
AA STA. 414+00.00 ℄ 891.58 OT1

F/W

APRON

APRON

TURTLE LAKE OUTLET DITCH

S.E.

18" RCP

16" DIP

9" PVC

880

658'

A STA. 413+50.00 ℄ 892.42 DES1
AA STA. 413+50.00 ℄ 892.47 OT1

F/W

663.0±

S.C.

3:1

3:1

3:1

884

887.5±

16" DIP

9" PVC

880

AS BUILT MUCK AREAS
3/5/91 [illegible]

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/12/91

27-131

STA. 413+50.00 TO 415+18.83 SCALE = 10 X 10

RAMSEY COUNTY | S.A.P. 62-651-25 | SHEET 56 OF 70 SHEETS

MUCK GRAN.	MUCK EXC	EMB
723	209	209
238	428	154
214	652	158
660	657	177
736	716	170

A STA. 417+50.00 ℄ 892.18 DES1
AA STA. 417+50.00 ℄ 891.16 OT1

R/W

UNIMPROVED ENTRANCE
MOST LIKELY R/W

15" RCP @ 87±

884

3:1

880

883.0±

16" DIP

A STA. 417+00.00 ℄ 891.92 DES1
AA STA. 417+00.00 ℄ 891.38 OT1

87±

880

883.0±

16" DIP

A STA. 416+50.00 ℄ 891.67 DES1
AA STA. 416+50.00 ℄ 891.37 OT1

87±

880

883.0±

16" DIP

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: SBC
DATE: 3/12/91

AS BUILT
MUCK AREAS
SBC 3/5/91

R/W

A STA. 416+00.00 ℄ 891.42 DES1
AA STA. 416+00.00 ℄ 891.41 OT1

886.0±

87±

880

883.0±

16" DIP

415+80 LT. 115' APPROX

OUTLET

EXISTING CULVERT

A STA. 415+50.00 ℄ 891.42 DES1
AA STA. 415+50.00 ℄ 891.48 OT1

R/W

AS BUILT
MUCK AREA
SBC 3/5/91

SE

885.8±

3:1

884

880

882.5±

16" DIP

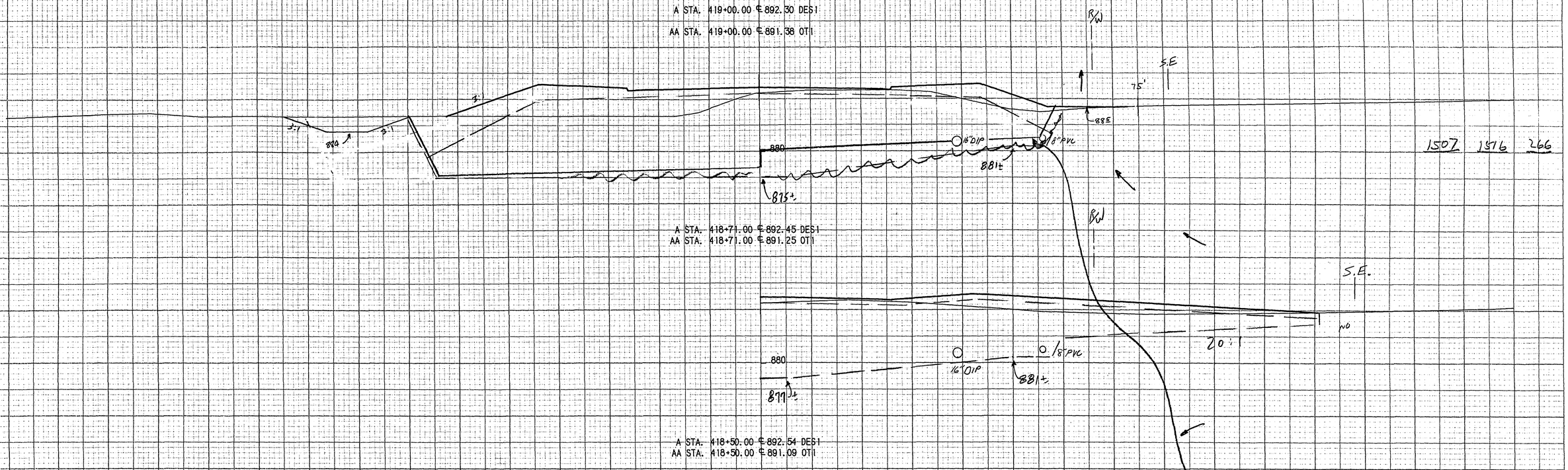
27-131

RAMSEY COUNTY | S.A.P. 62-651-25 | SHEET 57 OF 70 SHEETS

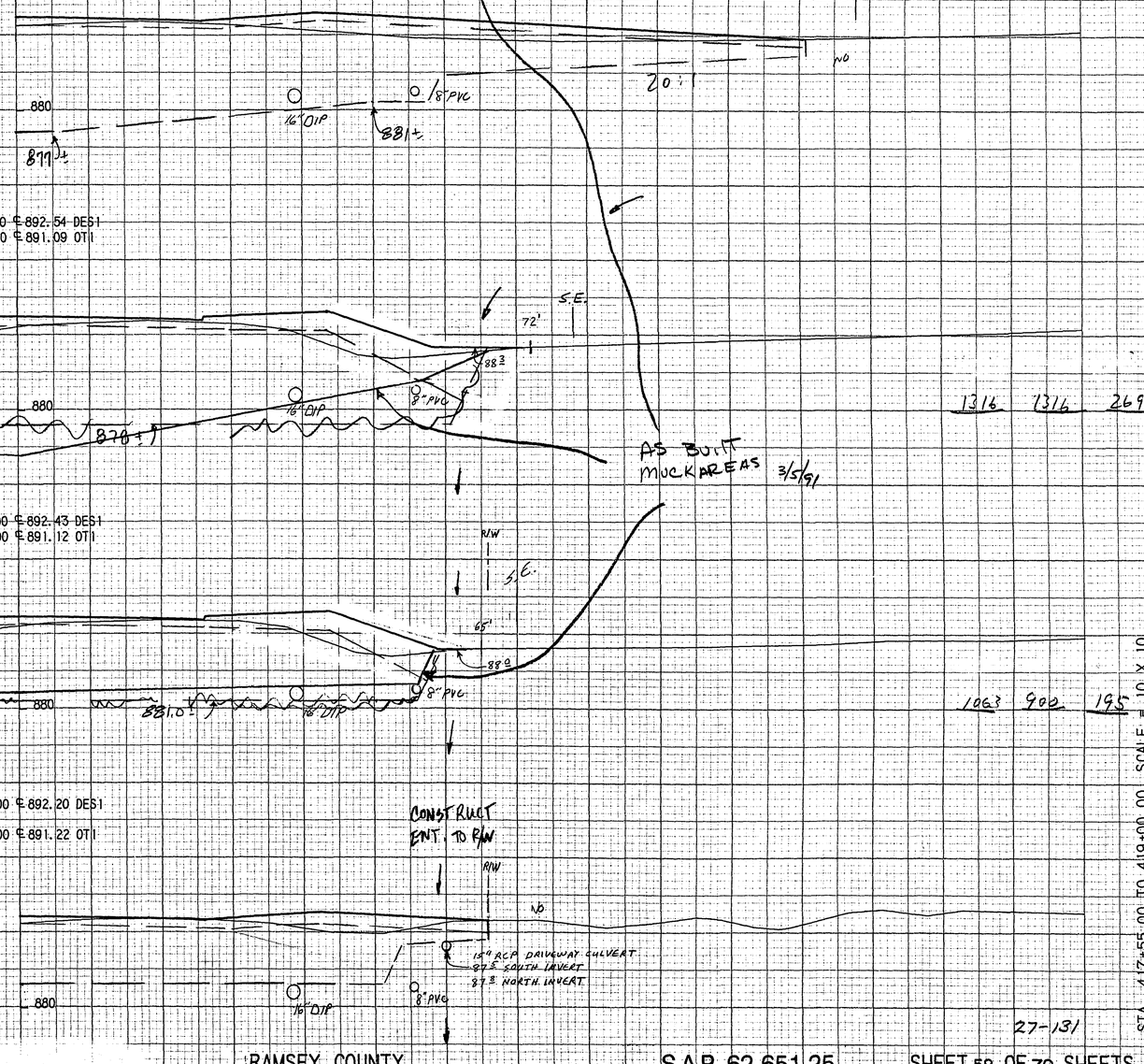
STA. 415+50.00 TO 417+50.00 SCALE = 10 X 10

MUCK GRAN	MUCK EXC	EMB
1507	1576	266
1316	1316	269
1063	900	195

A STA. 419+00.00 ℄ 892.30 DES1
AA STA. 419+00.00 ℄ 891.38 OT1



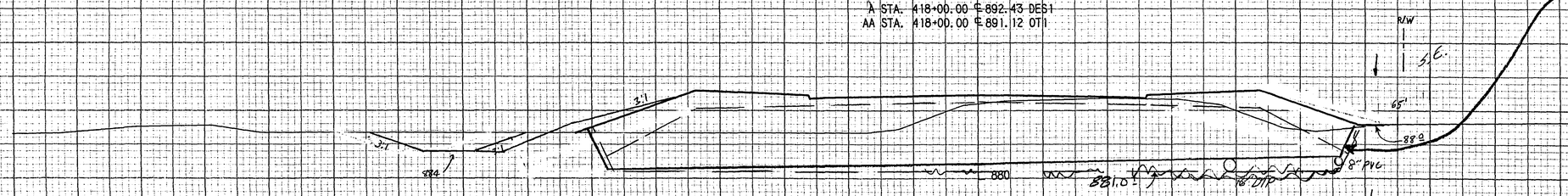
A STA. 418+71.00 ℄ 892.45 DES1
AA STA. 418+71.00 ℄ 891.25 OT1



A STA. 418+50.00 ℄ 892.54 DES1
AA STA. 418+50.00 ℄ 891.09 OT1

AS BUILT MUCK AREAS 3/5/91

A STA. 418+00.00 ℄ 892.43 DES1
AA STA. 418+00.00 ℄ 891.12 OT1



A STA. 417+55.00 ℄ 892.20 DES1
AA STA. 417+55.00 ℄ 891.22 OT1

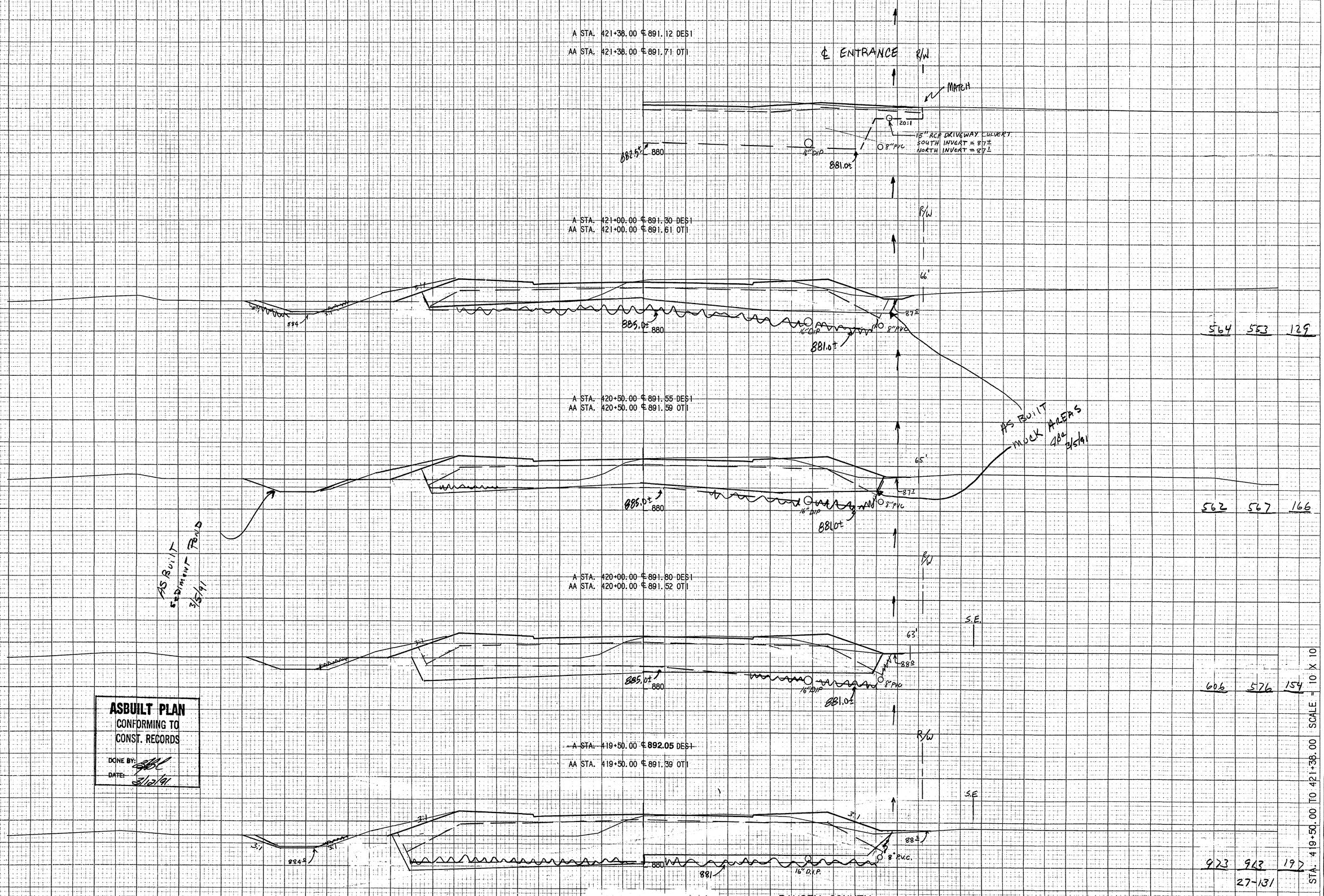
CONSTRUCT ENT. TO R/W

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/12/91

STA. 417+55.00 TO 419+00.00 SCALE = 10 X 10

27-131

	MUCK GRAN	MUCK EXC	EMB
A STA. 421+38.00 ℄ 891.12 DES1 AA STA. 421+38.00 ℄ 891.71 OT1			
A STA. 421+00.00 ℄ 891.30 DES1 AA STA. 421+00.00 ℄ 891.61 OT1	564	553	129
A STA. 420+50.00 ℄ 891.55 DES1 AA STA. 420+50.00 ℄ 891.59 OT1	562	567	166
A STA. 420+00.00 ℄ 891.80 DES1 AA STA. 420+00.00 ℄ 891.52 OT1	606	576	154
~~A STA. 419+50.00 ℄ 892.05 DES1~~ AA STA. 419+50.00 ℄ 891.39 OT1	923	943	197



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: BBL
DATE: 5/13/91

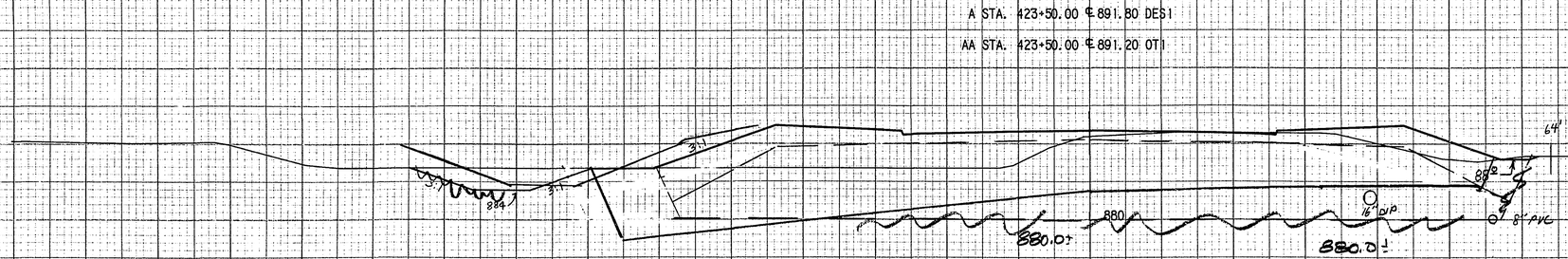
RAMSEY COUNTY S.A.P. 62-651-25 SHEET 59 OF 70 SHEETS

STA. 419+50.00 TO 421+38.00 SCALE = 10 X 10

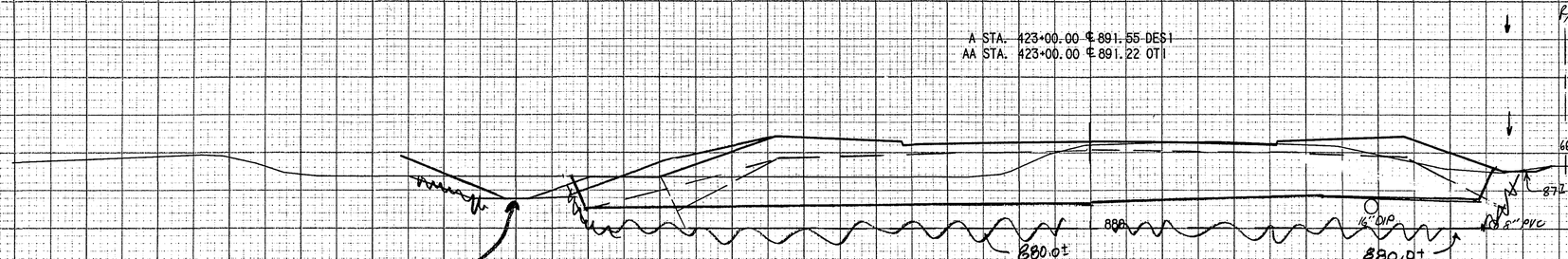
27-131

MUCK GRAN	MUCK EXC	EMB
1062	1067	198
1012	1015	197
1143	1085	174
1196	1258	176
833	933	149

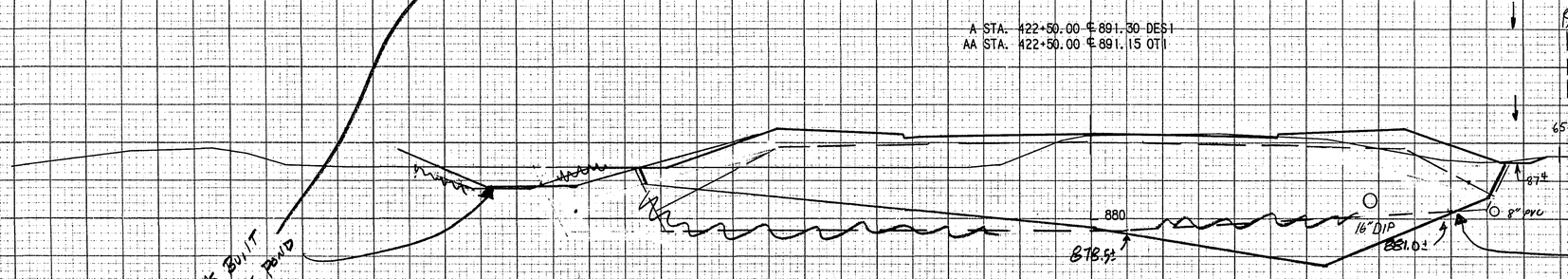
A STA. 423+50.00 ℄ 891.80 DES1
AA STA. 423+50.00 ℄ 891.20 OT1



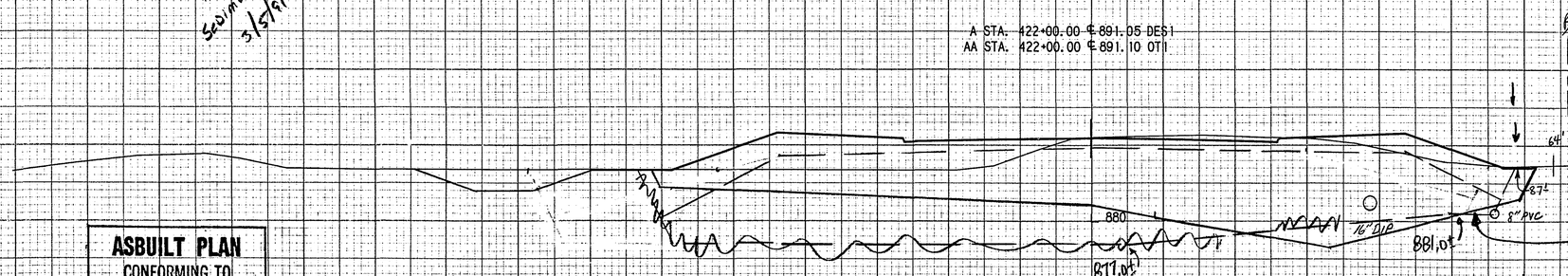
A STA. 423+00.00 ℄ 891.55 DES1
AA STA. 423+00.00 ℄ 891.22 OT1



A STA. 422+50.00 ℄ 891.30 DES1
AA STA. 422+50.00 ℄ 891.15 OT1



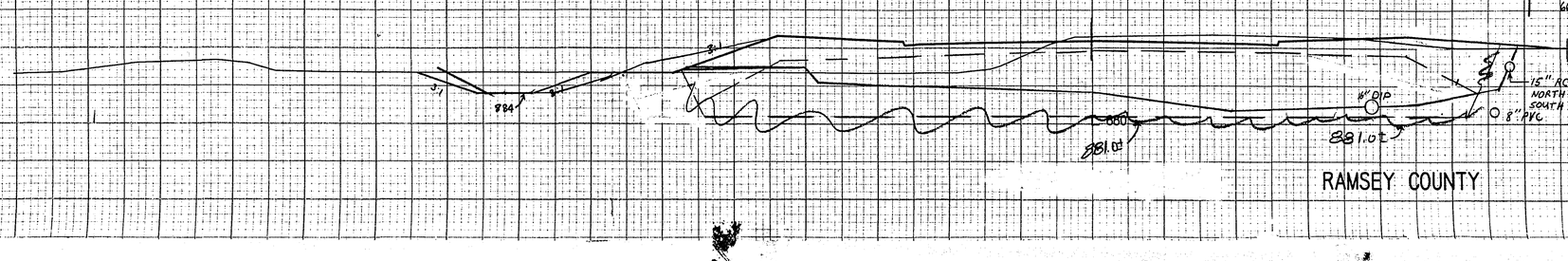
A STA. 422+00.00 ℄ 891.05 DES1
AA STA. 422+00.00 ℄ 891.10 OT1



AS BUILT
MUCK AREAS
3/6/91

A STA. 421+50.00 ℄ 891.05 DES1
AA STA. 421+50.00 ℄ 891.57 OT1

STA. 421+75 55' RT.
15" APRON - INV. 87±



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 8/12/91

STA. 421+50.00 TO 423+50.00 SCALE = 10 X 10

27-131

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 60 OF 70 SHEETS

BEGIN MUCK EXCEPTION STA. 423+62±

	MUCK GRAN	MUCK EXC	EMB
	673	752	50
	843	932	51
	865	969	21
	1097	1019	240
		27-131	

A STA. 425+50.00 ℄ 892.81 DES1
AA STA. 425+50.00 ℄ 892.24 OT1

GUTTER-I

891.4±

2%

16" DIP

24" RCP

885.0±

880

℄ CO. RD. I (EAST)

A STA. 425+24.62 ℄ 892.68 DES1
AA STA. 425+24.62 ℄ 892.08 OT1

GRADE TO DRAIN

18

891.90

2%

892.26

-0.663%

891.93

890

STA. 27+00
CO. RD. I

27+50

16" DIP

884.0±

A STA. 425+00.00 ℄ 892.56 DES1
AA STA. 425+00.00 ℄ 891.83 OT1

SAN MH 54
425+18

EDGE. BIT.-I

891.5±

2%

16" DIP

883.0±

880

8" PVC

18 RCP SAN SEWER

24" SAN

SAN MH
424+99

GRADE TO DRAIN

A STA. 424+50.00 ℄ 892.30 DES1
AA STA. 424+50.00 ℄ 891.48 OT1

VAR.

77'

3:1

881.5±

880

16" DIP

8" PVC

AS BUILT
SEDIMENT POND
3/6/91

A STA. 424+00.00 ℄ 892.05 DES1
AA STA. 424+00.00 ℄ 891.12 OT1

VAR.

72'

3:1

884

880.0±

880

16" DIP

8" PVC

880.0±

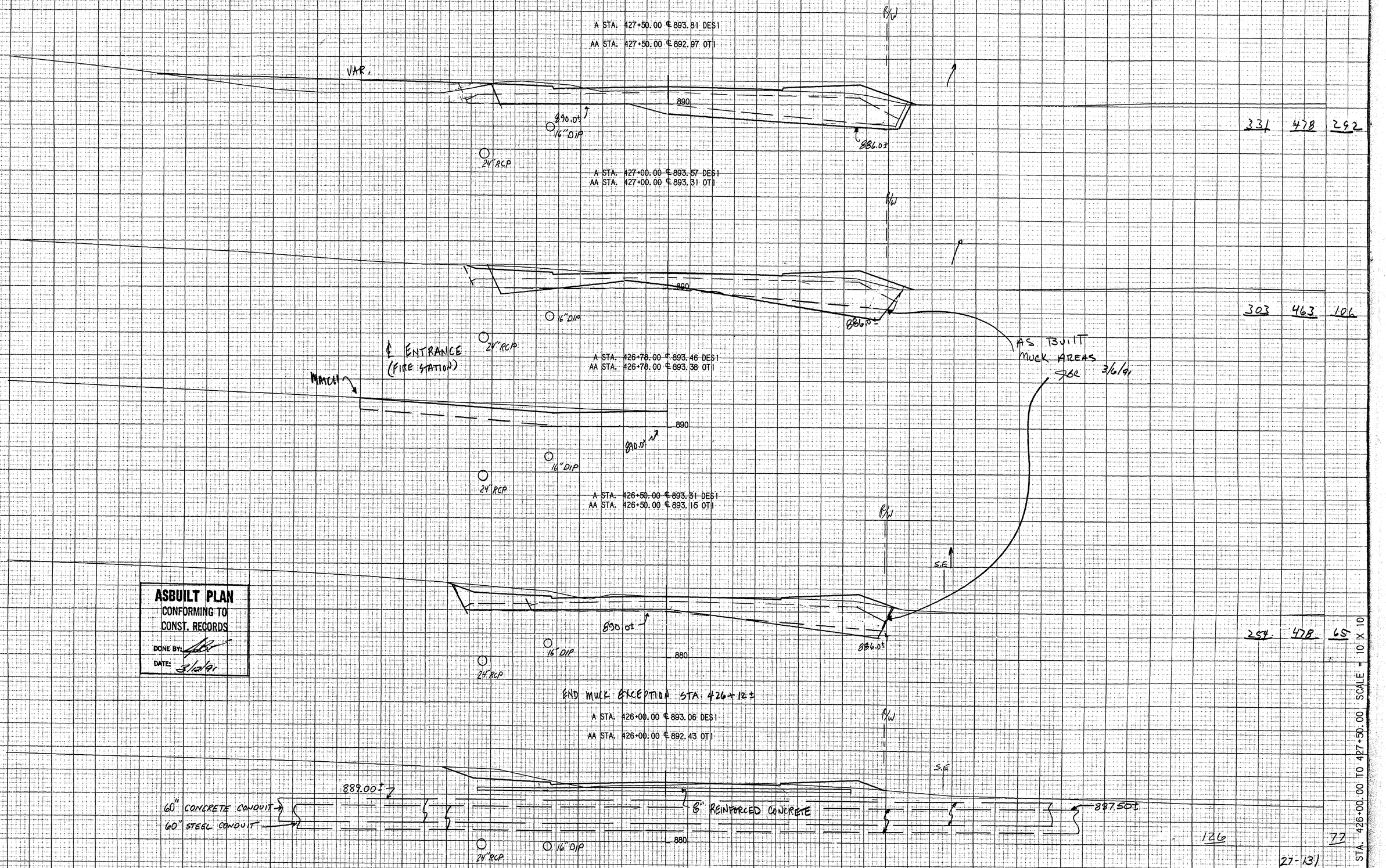
AS BUILT
MUCK AREAS
3/6/91

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: KBC
DATE: 3/6/91

STA. 424+00.00 TO 425+50.00 SCALE = 10 X 10

RAMSEY COUNTY | S.A.P. 62-651-25 | SHEET 61 OF 70 SHEETS

	MUCK GRAN	MUCK EXC	EMB
EXC.			
	331	478	292
	303	463	106
	254	478	65
	126		77



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [signature]
DATE: 3/12/91

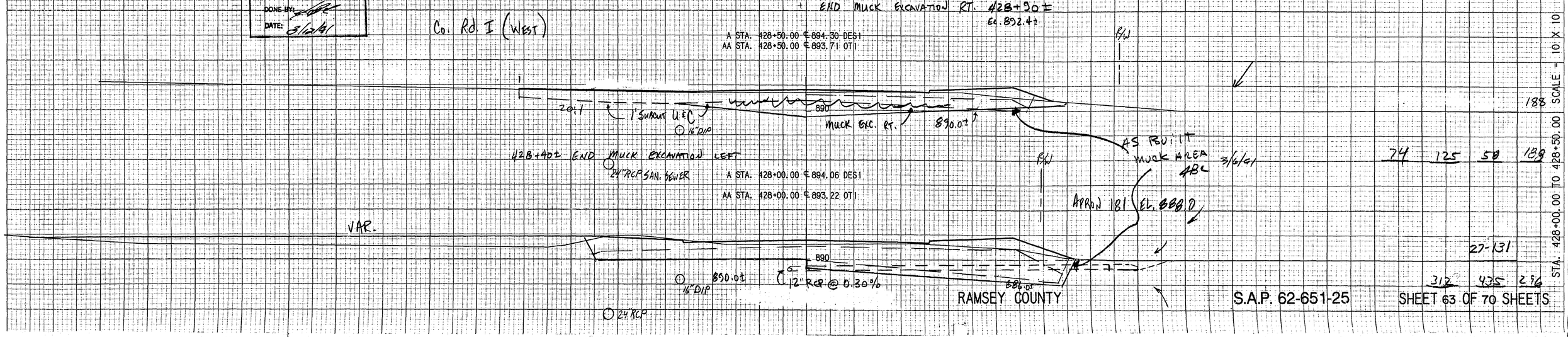
STA. 426+00.00 TO 427+50.00 SCALE = 10' X 10'

RAMSEY COUNTY | S.A.P. 62-651-25 | SHEET 62 OF 70 SHEETS

27-131

MUCK GRAN	MUCK EXC	EMB	EXC.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/16/61



74	125	58	188
27-131			
312	435	296	

188

STA. 428+00.00 TO 428+50.00 SCALE = 10' X 10

S.A.P. 62-651-25

SHEET 63 OF 70 SHEETS

EXC EMB

A STA. 431+00.00 ℄ 897.17 SCT3
A STA. 431+00.00 ℄ 896.50 SCT2
A STA. 431+00.00 ℄ 895.51 SCT1
A STA. 431+00.00 ℄ 897.77 DES1
AA STA. 431+00.00 ℄ 897.77 OT1

R/W

153 62

890

16" DIP

24" RCP

A STA. 430+50.00 ℄ 896.19 SCT3
A STA. 430+50.00 ℄ 895.52 SCT2
A STA. 430+50.00 ℄ 894.53 SCT1
A STA. 430+50.00 ℄ 896.78 DES1
AA STA. 430+50.00 ℄ 896.72 OT1

R/W

147 61

890

16" DIP

24" RCP

A STA. 430+00.00 ℄ 895.21 SCT3
A STA. 430+00.00 ℄ 894.54 SCT2
A STA. 430+00.00 ℄ 893.55 SCT1
A STA. 430+00.00 ℄ 895.80 DES1
AA STA. 430+00.00 ℄ 895.89 OT1

R/W

174 56

890

16" DIP

429+62 ℄ CONCRETE ENTRANCE MATCH EXISTING 62' RT

24" RCP

A STA. 429+50.00 ℄ 894.41 SCT3
A STA. 429+50.00 ℄ 893.74 SCT2
A STA. 429+50.00 ℄ 892.75 SCT1
A STA. 429+50.00 ℄ 895.00 DES1
AA STA. 429+50.00 ℄ 895.11 OT1

184 56

890

16" DIP

24" RCP

A STA. 429+00.00 ℄ 893.97 SCT3
A STA. 429+00.00 ℄ 893.30 SCT2
A STA. 429+00.00 ℄ 892.32 SCT1
A STA. 429+00.00 ℄ 894.56 DES1
AA STA. 429+00.00 ℄ 894.19 OT1

R/W

890

16" DIP CROSSING

146 62

24" RCP

℄ Co. Rd. I (WEST)

A STA. 428+65.20 ℄ 894.39 DES1
AA STA. 428+65.20 ℄ 893.98 OT1

20:1

1' SUBCUT U&C

890

16" DIP

24" RCP

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/12/91

EXC EMB

A STA. 433+00.00 ℄ 900.18 SCT3
A STA. 433+00.00 ℄ 899.51 SCT2
A STA. 433+00.00 ℄ 898.52 SCT1
A STA. 433+00.00 ℄ 900.77 DES1
AA STA. 433+00.00 ℄ 900.60 OT1

R/W

139 72

890

16" DIP

24" RCP

A STA. 432+50.00 ℄ 899.71 SCT3
A STA. 432+50.00 ℄ 899.04 SCT2
A STA. 432+50.00 ℄ 898.05 SCT1
A STA. 432+50.00 ℄ 900.31 DES1
AA STA. 432+50.00 ℄ 900.09 OT1

R/W

S.E.

145 67

890

16" DIP

24" RCP

A STA. 432+36.00 ℄ 899.55 SCT3
A STA. 432+36.00 ℄ 898.88 SCT2
A STA. 432+36.00 ℄ 897.88 SCT1
A STA. 432+36.00 ℄ 900.13 DES1
AA STA. 432+36.00 ℄ 900.09 OT1

R/W

S.E.

TO S MATCH

ENTRANCE

890

16" DIP

24" RCP

A STA. 432+00.00 ℄ 899.04 SCT3
A STA. 432+00.00 ℄ 898.36 SCT2
A STA. 432+00.00 ℄ 897.38 SCT1
A STA. 432+00.00 ℄ 899.63 DES1
AA STA. 432+00.00 ℄ 899.58 OT1

S.E.

146 60

890

16" DIP

24" RCP

A STA. 431+50.00 ℄ 898.16 SCT3
A STA. 431+50.00 ℄ 897.48 SCT2
A STA. 431+50.00 ℄ 896.50 SCT1
A STA. 431+50.00 ℄ 898.74 DES1
AA STA. 431+50.00 ℄ 898.78 OT1

R/W

146 59

890

16" DIP

24" RCP

27-131

SCALE = 10 X 10

STA. 428+65.20 TO 433+00.00

RAMSEY COUNTY S.A.P. 62-651-25 SHEET 64 OF 70 SHEETS

EXC EMB

A STA. 435+00.00 ℄ 900.02 SCT3
A STA. 435+00.00 ℄ 899.35 SCT2
A STA. 435+00.00 ℄ 898.36 SCT1
A STA. 435+00.00 ℄ 900.61 DES1
AA STA. 435+00.00 ℄ 900.44 OT1

138 76

16" DIP

890

A STA. 434+50.00 ℄ 900.37 SCT3
A STA. 434+50.00 ℄ 899.70 SCT2
A STA. 434+50.00 ℄ 898.71 SCT1
A STA. 434+50.00 ℄ 900.95 DES1
AA STA. 434+50.00 ℄ 900.61 OT1

24" RCP

℄ W

138 70

16" DIP

890

+27 CON. EL. 901.00± RT. 61'

A STA. 434+07.55 ℄ 900.50 SCT3
A STA. 434+07.55 ℄ 899.83 SCT2
A STA. 434+07.55 ℄ 898.85 SCT1
A STA. 434+07.55 ℄ 901.09 DES1
AA STA. 434+07.55 ℄ 901.18 OT1

24" RCP

MATCH EXISTING GRADE

℄ ENTRANCE

℄ ROYAL OAKS DRIVE

SAWCUT

20:1

16" DIP

890

A STA. 434+00.00 ℄ 900.51 SCT3
A STA. 434+00.00 ℄ 899.84 SCT2
A STA. 434+00.00 ℄ 898.85 SCT1
A STA. 434+00.00 ℄ 901.10 DES1
AA STA. 434+00.00 ℄ 901.20 OT1

24" RCP

ROYAL OAKS DRIVE

SAWCUT

20:1

16" DIP

890

193 CONC EL. 901.4± RT. 61'

A STA. 433+50.00 ℄ 900.45 SCT3
A STA. 433+50.00 ℄ 899.78 SCT2
A STA. 433+50.00 ℄ 898.79 SCT1
A STA. 433+50.00 ℄ 901.03 DES1
AA STA. 433+50.00 ℄ 900.85 OT1

24" RCP

℄ W

16" DIP

890

24" RCP

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: BC
DATE: 3/10/91

291 56

139 83

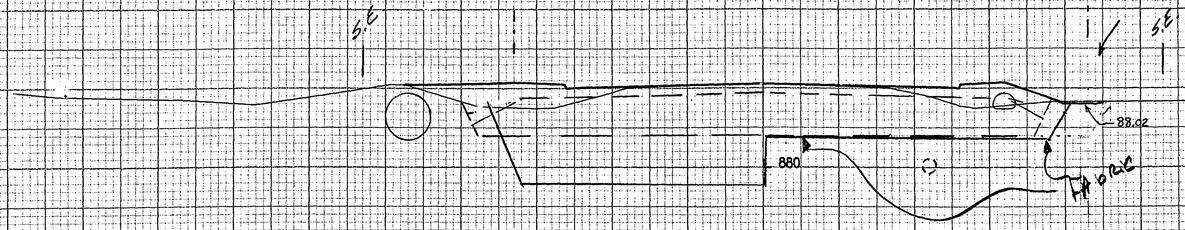
27-131

STA. 433+50.00 TO 435+00.00 SCALE = 10' X 10

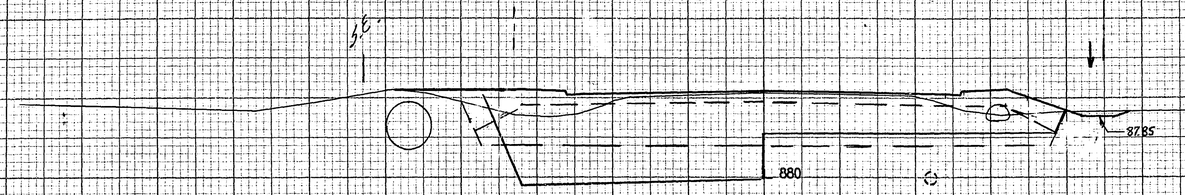
RAMSEY COUNTY S.A.P. 62-651-25 SHEET 65 OF 70 SHEETS

	MUCK GRAN	MUCK EXC	EMB
	407	431	82
	373	411	80
	464	473	53
	415	504	83
	489	585	66

A STA. 29+00.00 ℄ 890.59 DES9
CA STA. 29+00.00 890.64 OT1



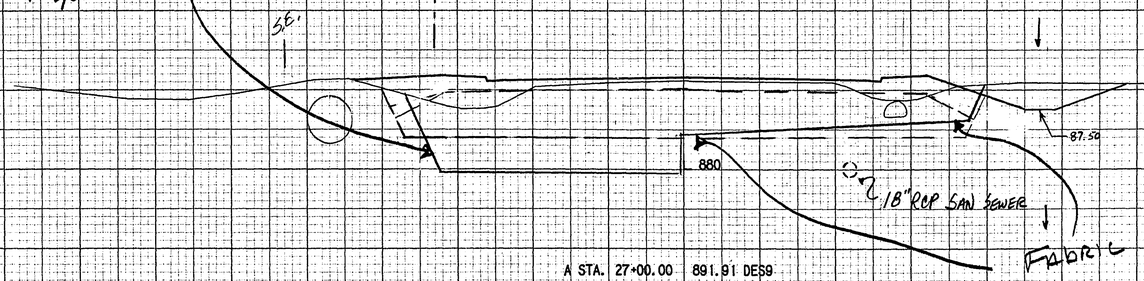
A STA. 28+50.00 ℄ 890.92 DES9
CA STA. 28+50.00 890.63 OT1



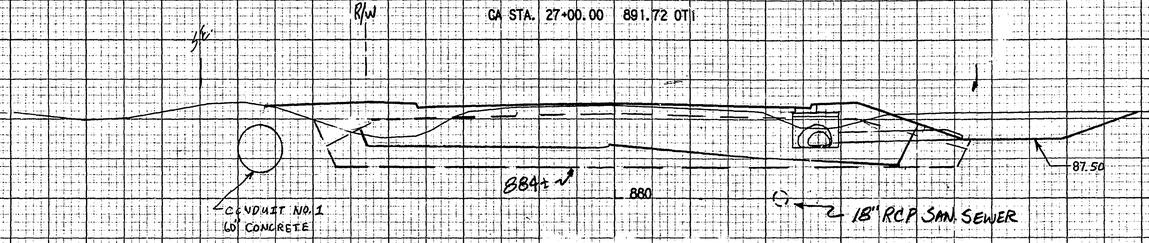
A STA. 28+00.00 891.25 DES9
CA STA. 28+00.00 890.68 OT1

AS BUILT
MUCK AREAS
JBC
3/6/91

A STA. 27+50.00 ℄ 891.58 DES9
CA STA. 27+50.00 891.13 OT1



A STA. 27+00.00 891.91 DES9
CA STA. 27+00.00 891.72 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: JBC
DATE: 5/12/91

COUNTY RD. I EAST
27-131

STA. 27+00.00 TO 29+00.00 SCALE = 10 X 10

MUCK GRAN	MUCK EXC	EMB

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 3/12/91

END TEMP. CONSTRUCTION STA. 30+50±
END MUCK EXCAVATION STA 30+50±

54

(RADIUS LAKE AVENUE)
R/W

CA STA. 30+00.00 ℄ 889.75 OTI

APPROX ITB EL. 888.1±

5.6'

GRAVEL SHLDR | EDGE B.IT

VAR

AS BUILT
MUCK AREAS
3/6/91

15" RCP STORM SEWER

880

MAINTAIN MINIMUM 1.0' COVER OVER PIPE

18" SAN. SEWER

FABRIC

BEGIN VAR. MUCK TAPER STA 29+60±

A STA. 29+50.00 ℄ 890.26 DES9

CA STA. 29+50.00 ℄ 890.25 OTI

END PERMENANT CONSTRUCTION STA 29+50±

5.6'

88.2

88.75

880

STRUCTURES ARE AT STA. 29+38

60" CONC. CONDUIT

18" RCP SAN. SEWER

FABRIC

40 250 167

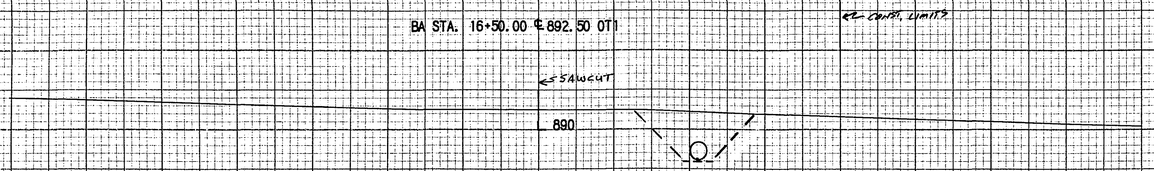
64 429 350

STA. 29+50.00 TO 30+00.00 SCALE = 10 X 10

COUNTY RD. I EAST
27-131

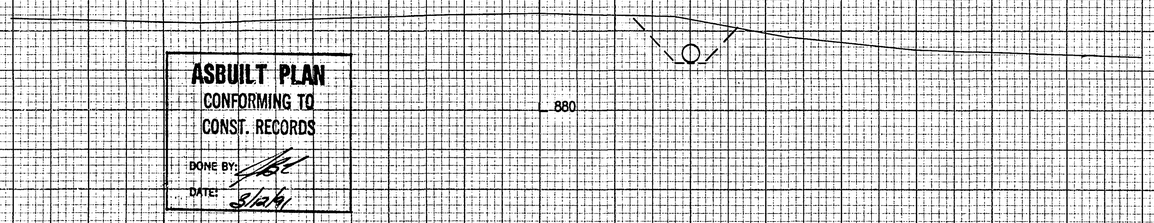
RAMSEY COUNTY | S.A.P. 62-651-25 | SHEET 67 OF 70 SHEETS

BA STA. 16+50.00 ℄ 892.50 OT1

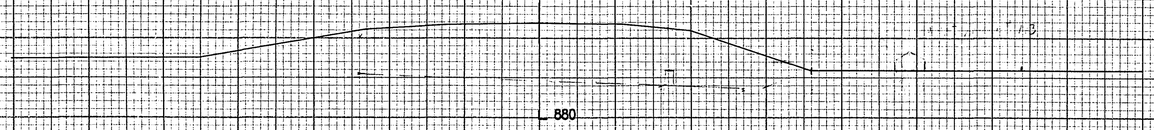


BA STA. 16+00.00 ℄ 892.51 OT1

BA STA. 15+50.00 ℄ 892.30 OT1

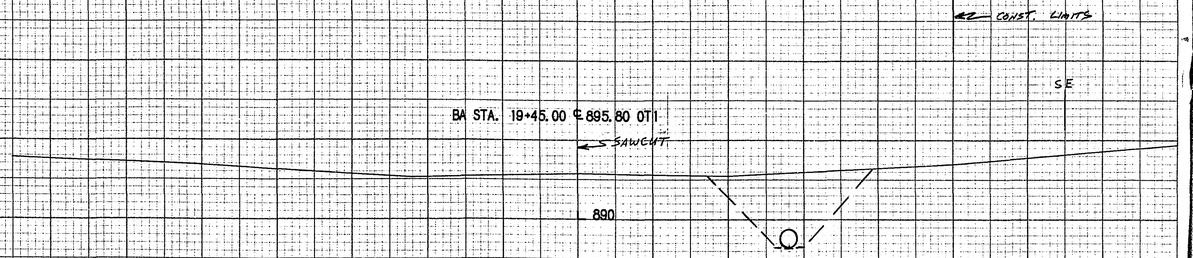


BA STA. 15+00.00 ℄ 892.09 OT1

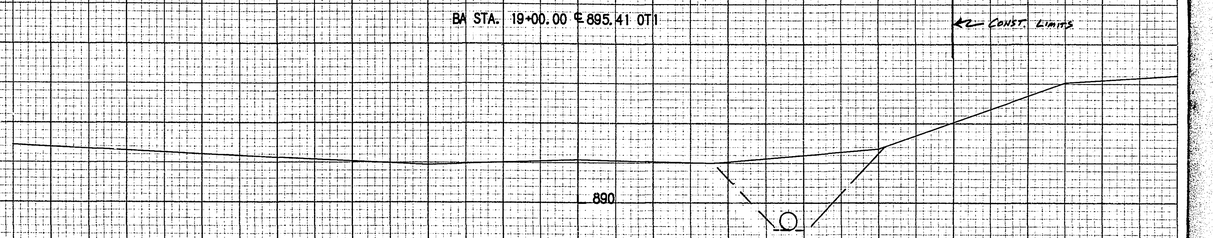


BA STA. 14+50.00 ℄ 892.49 OT1

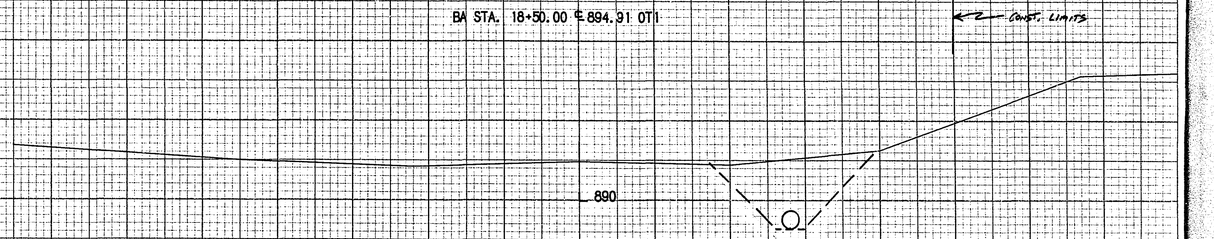
BA STA. 19+45.00 ℄ 895.80 OT1



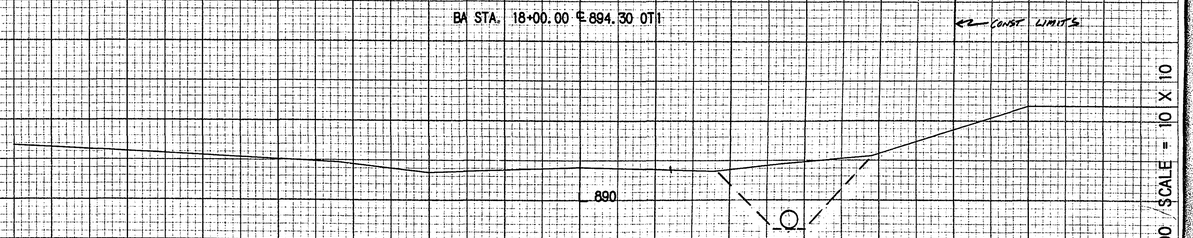
BA STA. 19+00.00 ℄ 895.41 OT1



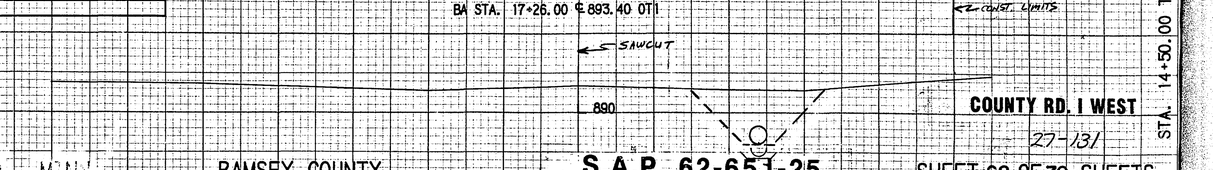
BA STA. 18+50.00 ℄ 894.91 OT1



BA STA. 18+00.00 ℄ 894.30 OT1



BA STA. 17+26.00 ℄ 893.40 OT1



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: [illegible]
DATE: 8/24/91

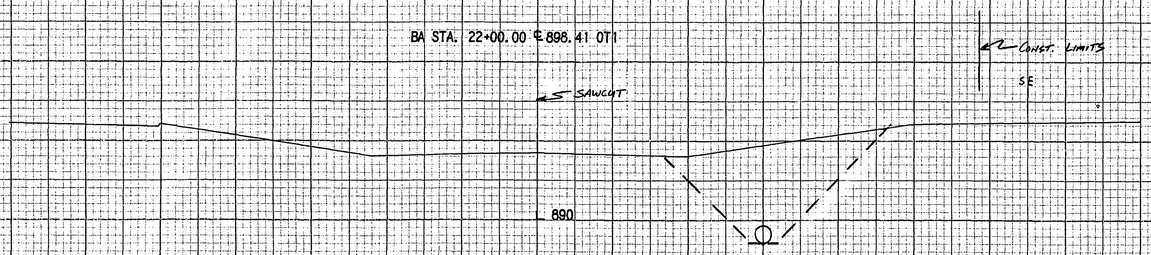
DATE	REVISED	BY
6/11/90	Sta. 15+00	T.L.

STA. 14+50.00 TO 19+45.00 / SCALE = 10 X 10

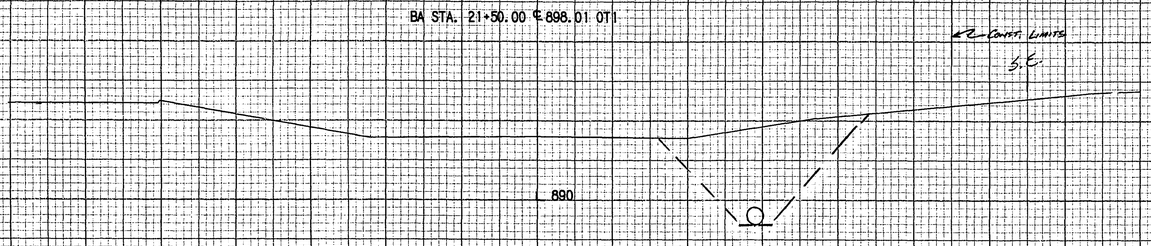
COUNTY RD. I WEST
27-131

[illegible] CO., MINN. RAMSEY COUNTY S.A.P. 62-651-25 SHEET 68 OF 70 SHEETS

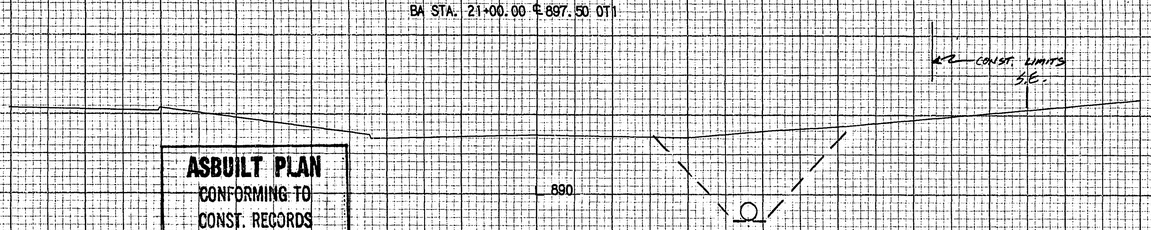
BA STA. 22+00.00 ℄ 898.41 OT1



BA STA. 21+50.00 ℄ 898.01 OT1



BA STA. 21+00.00 ℄ 897.50 OT1



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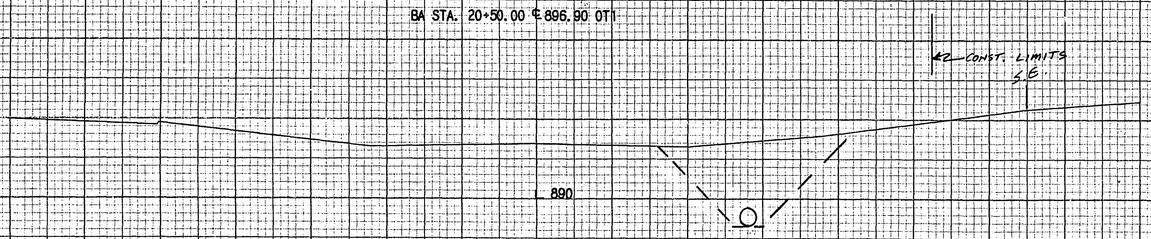

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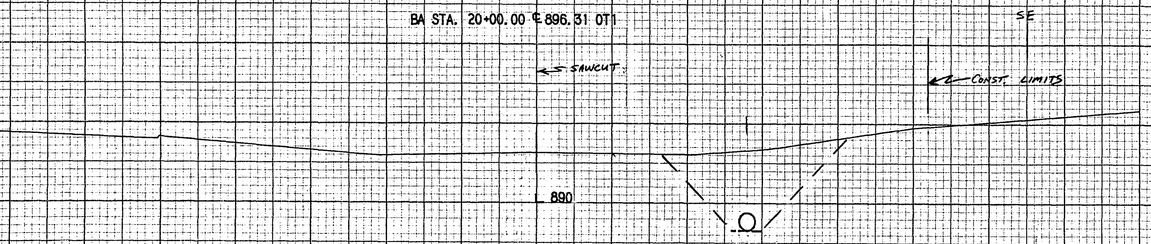

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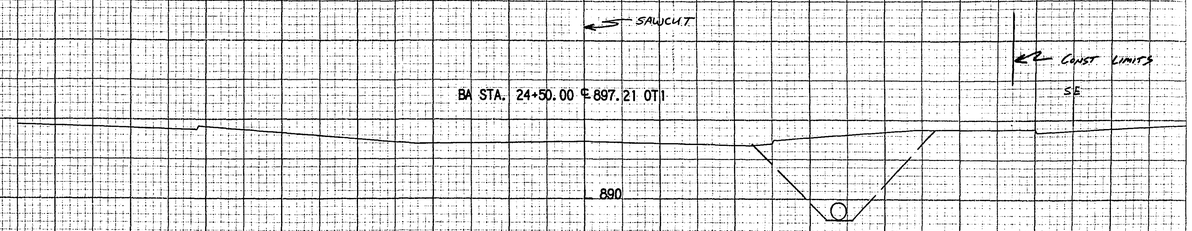

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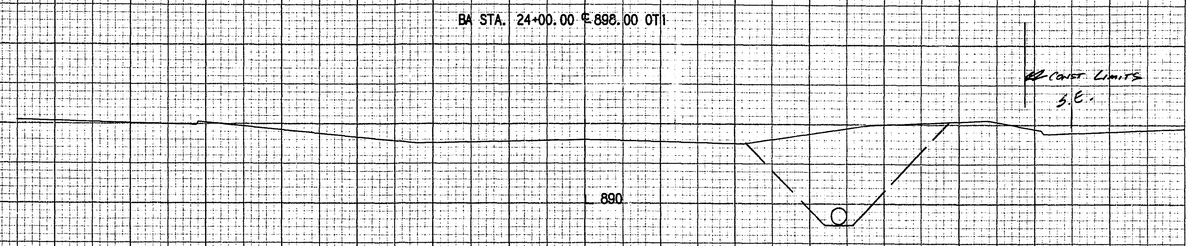
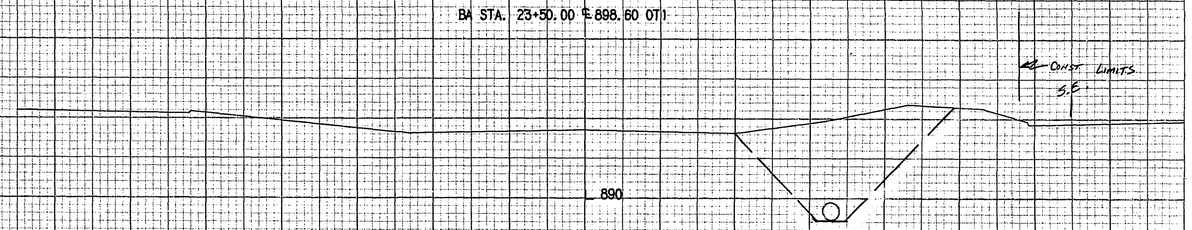


BA STA. 23+50.00 ℄ 898.60 OT1



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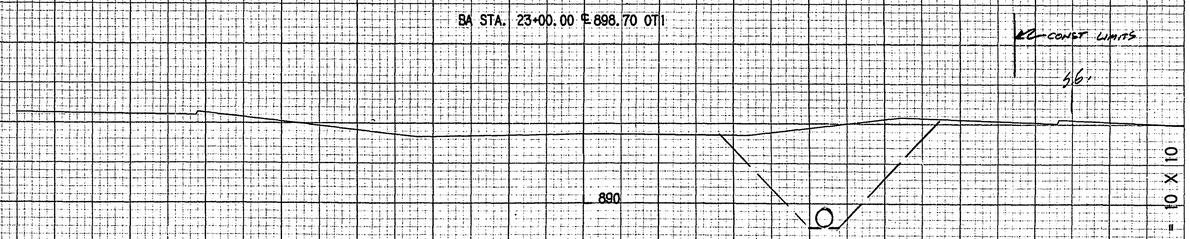
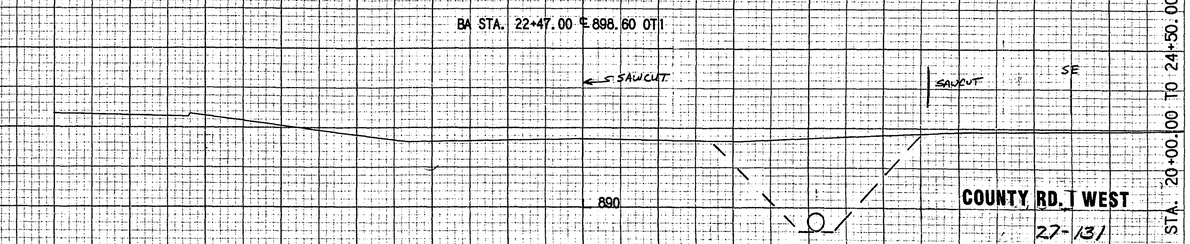


BA STA. 22+47.00 ℄ 898.60 OT1

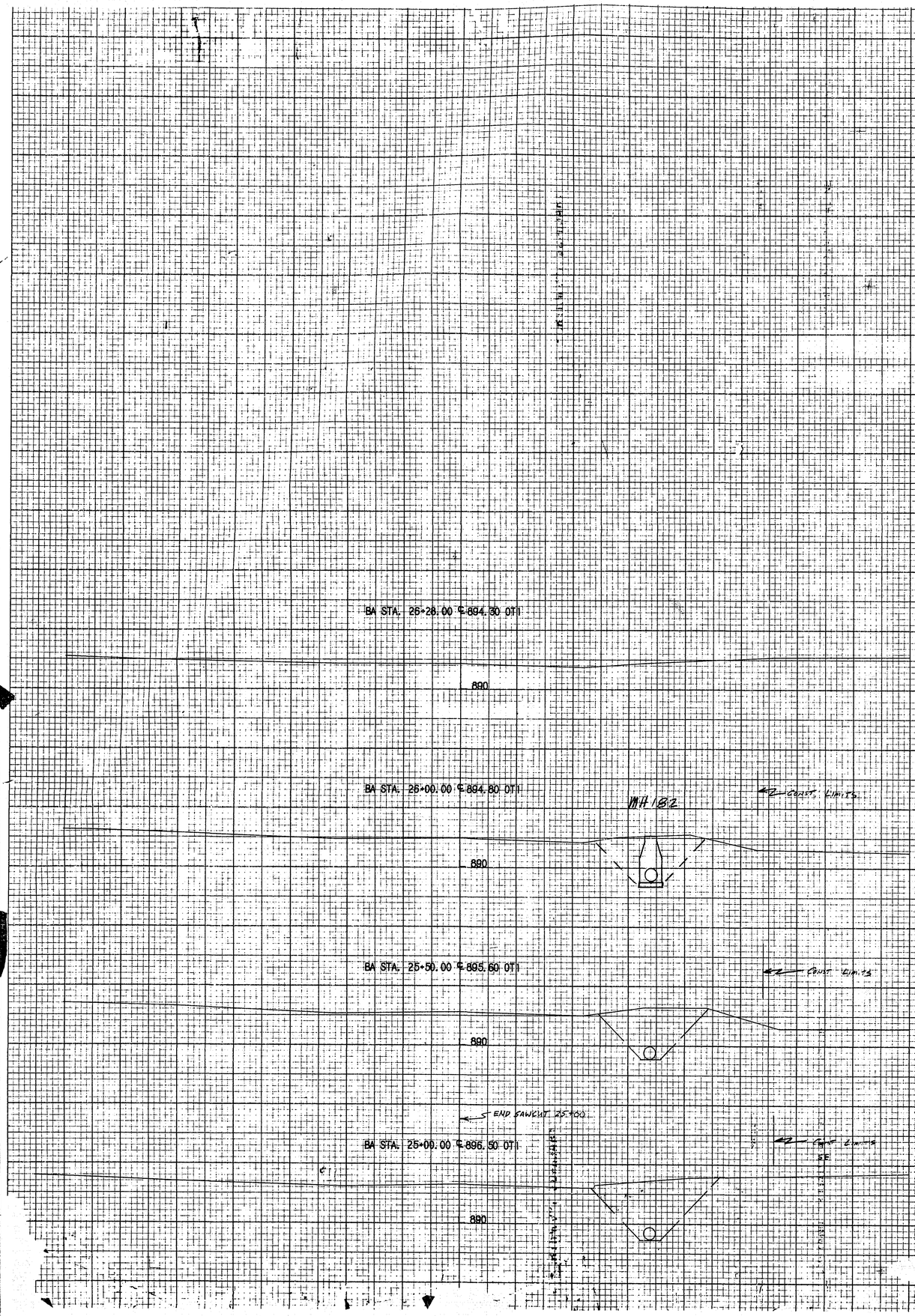


ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 8/12/91

STA. 20+00.00 TO 24+50.00 SCALE = 10 X 10

HENN. CO., MINN. | RAMSEY COUNTY | **S.A.P. 62-651-25** | SHEET 69 OF 70 SHEETS

COUNTY RD. I WEST
27-131



EARTHWORK SUMMARY

COMMON EXCAVATION (P)	32,388 CY
EMBANKMENT 60,779 CY X 1.3 =	79,013 CY (LV)
MUCK EXCAVATION	90,632 CY
MUCK BACKFILL (GRANULAR MATERIAL) 83,200 CY (CV) X 1.5 =	124,800 CY (LV)
EMBANKMENT NEEDED =	79,013 CY (LV)
COMMON EXCAVATION 32,388 CY (CV) X 1.3 =	- 42,104 CY (LV)
DIFFERENCE =	36,909 CY (SHORT)
GRANULAR MATERIAL	
MUCK BACKFILL	124,800 CY (LV)
EMBANKMENT	+ 36,909 CY (LV)
GRANULAR MATERIAL NEEDED =	161,709 CY (LV)

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY:
DATE: 3/12/91

COUNTY RD. I WEST
27-131
STA. 25+00.00 TO 26+28.00 SCALE = 10 X 10

RAMSEY COUNTY

S.A.P. 62-651-25

SHEET 70 OF 70 SHEETS