

[illegible]

NOTES:

1. NEW SECURITY FENCING MUST BE IN PLACE BEFORE OLD FENCE IS REMOVED. REMOVAL OF FENCE INCLUDES BARBED WIRE.
2. TO BE USED AS DIRECTED BY THE ENGINEER.
3. TO BE INSTALLED AROUND STA. 124000 IN EXISTING FENCE TO SECURE TEMPORARY SLOPES TO REMAINING PLANT.
4. TO BE USED FOR CONCRETE DISTRIBUTION SLABS OVER EXISTING FENCE.
5. TO BE PLACED UNDER AQUADUCTS, SEE SHEET 4-A-50.
6. TO BE USED FOR DUST CONTROL, SEE SHEET 4-A-50.
7. THE CONTRACTOR SHALL PROVIDE COLOR WITH COLOR CODES AS DIRECTED BY THE ENGINEER.
8. FURNISHING AND INSTALLING SIGN POSTS SHALL BE FOR THE FOLLOWING: 12" X 12" SIGN AND/OR FURNISHING AND INSTALLING SIGN PANEL.
9. TO BE USED FOR TREE PROTECTION. SEE REMOVAL PLANS FOR DETAILS.
10. TO BE USED FOR CULTIVAT MATERIALS.
11. FERTILIZER SHALL BE SLOW RELEASE TYPE.
12. STOMATOPHYTES SHALL NOT HAVE TREES.
13. REMOVAL OF INTERIM PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NEW 2551-501.1 PREPARED PREFERRED PLASTIC MARKINGS.
14. SURVEY MONUMENT MANHOLE, SEE SHEET 13 FOR DETAILS.
15. CHAINS IN BOTTOM TO BE USED FOR BLOW WATER TIE IN IN N&K EXCAVATION AREA.
16. POND EXCAVATION FOR POND NO. 1 ON COUNTRY ROAD 1.
17. POND EXCAVATION FOR POND NO. 2 ON LEXINGTON AVENUE.
18. POND EXCAVATION FOR POND NO. 3 ON 125400 RD. WHICH WAS INSTALLED FOR TEMPORARY ACCESS TO REMOVED PLANT.
19. AFTER SLOPE OFFICE PLATE "P" 1/2" THICK TO BE INSTALLED BETWEEN 15" RCP AND 18" RCP APRON AT STRUCTURE CROSS SECTION.
20. TO BE USED ON LEPAK CLOT.
21. POLYURETHANE SHALL BE POLY PREFORM EXPANDED ON LEPAK CLOT AND PAVING LOT WHICH SHALL BE EXPANDED TO MATCH EXISTING SURFACE RETAINING WALL.
22. SEE SHEET 51. FENCE TO BE BLACK VINYL CLAD.
23. OFFICE PLATE FOR 15" RCP SHALE BE INCIDENTAL.
24. SPECIAL EXCAVATION 3 SHALL INCLUDE REMOVING AND REPAIRING EXISTING CONCRETE SURCHARGE STA 114300 TO 116450.
25. SPECIAL EXCAVATION 3 SHALL SURCHARGE STA 114300 TO 116450 TO BE PLACED WITHIN SURCHARGE AREA.
26. FENCING SPECIAL 116450 EXISTING DESIGN SPECIAL SHALL BE FENCING SPECIAL 116450 EXISTING DESIGN SPECIAL FOR TWIN CITY ANTIPLANT PLANT FOR THE BLINDING TURTLES SEE SHEET 16 FOR DETAILS.
27. REMOVE WATER ACCESS MANHOLE AT STA 117300 AND 117400. RELOCATE TIGHT ACCESS COVER. SEE PAGE 16B FOR DETAILS.
28. CONCRETE MANHOLE OVER INFLATE 60" WATER AQUADUCT AT STA 119400 AND STA 121400.

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX 110 LBS/SY/IN
ACCEGRATE BASE CLASS 7 105 LBS/SY/IN

TACK COAT

- MILLED SURFACE 0.00 T/GAL/SY
- BETWEEN NEW LAYERS. 0.05 GAL/SY

TURF ESTABLISHMENT

- SEED MIXTURE 50B. 50 LBS/Acre
- SEED MIXTURE 25B. 60 LBS/Acre
- SEED MIXTURE 15B. 15 LBS/Acre
- COMMERCIAL FERTILIZER - 10-20-20. 200 LBS/Acre
- TYPE 1 HYDRAULIC SOIL STABILIZER. 200 LBS/Acre

COUNTY DEPARTMENT OF PUBLIC WORKS

ESTIMATED QUANTITIES

S.P. 62-603-14 / S.A.P. 62-651-41

SHEET
4 OF
12

NOTES:

1. NEW SECURITY FENCE MUST BE IN PLACE BEFORE OLD FENCE IS REMOVED. REMOVAL OF FENCE INCLUDES BARBED WIRE.
2. TO BE USED AS DIRECTED BY THE ENGINEER.
3. TO BE INSTALLED AROUND STA. 124+00 RT IN EXISTING FENCE FOR TEMPORARY ACCESS TO AN EXISTING PLANT.
4. TO BE USED FOR CONCRETE DISTRIBUTION SLABS OVER ST. PAUL WATER AQUIFECTS; SEE SHEET 49 & 50.
5. TO BE USED FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE CROWN WITH COLOR MATCHING THE EXISTING SLOTTING.
7. FURNISHING AND INSTALLING SIGN POSTS SHALL BE FOR THE PURPOSE OF IDENTIFYING SIGN AND/OR FURNISHING AND INSTALLING SIGN PLANT.
8. TO BE USED FOR TREE PROTECTION; SEE REMOVAL PLAN.
9. TO BE USED FOR CULTIVAR MARKERS.
10. FERTILIZER SHALL BE SLOW RELEASE TYPE.
11. TO BE USED FOR IDENTIFYING AND/OR TREE STEPS.
12. REMOVAL OF INTERVIEW PAVEMENT MARKINGS SHALL BE FOR THE PURPOSE OF IDENTIFYING SIGN POSTS.
13. TO BE USED FOR IDENTIFYING SIGN POSTS.
14. SURVEY MONUMENT MARKER; SEE SHEET 13 FOR DETAIL.
15. GRABBAR BORROW FOR FILL FOR BELOW WATER TABLE IN MUCK EXCAVATION AREA.
16. GRABBAR BORROW FOR FILL FOR BELOW WATER TABLE IN MUCK EXCAVATION AREA.
17. POND EXCAVATION FOR POND NO. 1 ON LEXINGTON AVENUE.
18. POND EXCAVATION FOR POND NO. 2 ON LEXINGTON AVENUE.
19. GRABBAR BORROW FOR FILL FOR BELOW WATER TABLE IN MUCK EXCAVATION AREA.
20. ROUND STEEL ORifice PIPE 15" I.D. THICK TO BE INSTALLED BETWEEN 15" RCP AND 15" RCP ARROW AT STA. 119+00.
21. TO BE USED ON LEPAK CURB.
22. STRIPES 300S PAGE 5B.
23. TO BE USED ON LEPAK CURB.
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UNIT WEIGHT OF BITUMINOUS MIX - 110 LBS/FT³
ACCRATE BASE CLASS 1 - 105 LBS/FT³

TACK COAT - .001 GAL/SY
- MILLED SURFACE - .001 GAL/SY
- BETWEEN NEW LAYERS - .005 GAL/SY

TURF ESTABLISHMENT
- SEED MIXTURE 500 - .50 LBS/ACRE
- SEED MIXTURE 250 - .60 LBS/ACRE
- SEED MIXTURE 125 - .60 LBS/ACRE
- COMMERCIAL FERTILIZER - 10-20-20 - .200 LBS/ACRE
- TYPE 1 HYDRAULIC SOIL STABILIZER - .200 LBS/ACRE

COUNTY DEPARTMENT OF PUBLIC WORKS

ESTIMATED QUANTITIES
A.P. 62-603-14 / S.A.P. 62-651-4

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NOTES:

1. NEW SECURITY FENCE MUST BE IN PLACE BEFORE OLD FENCE IS REMOVED. REMOVE OF FENCE INCLUDES BARBED WIRE.
2. TO BE USED AS DIRECTED BY THE ENGINEER.
3. TO BE INSTALLED AROUND STA. 12+40.00 RT IN EXISTENCE FOR SECURED TEMPORARY ACCESS TO AMMUNITION PLANT.
4. TO BE USED FOR CONCRETE DISTRIBUTION SLABS OVER EXISTING PAVEMENT. SEE SHEET 39.0 & 50.0.
5. TO BE USED FOR DUST CONTROL, AS DIRECTED BY THE ENGINEER.
6. CONTRACTOR SHALL PROVIDE COLOR BY COLOR AND STYLE SELECTIONS.
7. REMOVE AND INSTALLING SIGN POSTS SHALL BE INCIDENTAL TO INSTALLING SIGN AND/OR FURNISHING SIGN PANELS.
8. TO BE USED FOR TREE PROTECTION. SEE REMOVAL PLAN FOR LOCATION.
9. TO BE USED FOR CURB/TRAFFIC MARKINGS.
10. INCLUDES APPROX.
11. TO BE RELEASED SHALL BE SLOW RELEASE TYPE.
12. STORM SEWER STRUCTURES SHALL HAVE STEP STAIRS.
13. TO BE USED FOR INTERIOR LIGHTING. SEE SHEET 39.0 & 50.0. INCIDENTAL TO US10 2581-501. REMOVABLE PREFORME PLASTIC MARKINGS.
14. SURFACE PAVEMENT MANHOLE, SEE SHEET 13 FOR DETAIL.
15. GRANULAR BORROW TO BE USED FOR BELOW WATER TABLE IN MOST SCAVATION AREA.
16. POND EXCAVATION FOR POND NO. 1, IN COUNTY ROAD 10, IN LOCATION FOR POND NO. 2, IN LOCATION AREA.
17. REMOVAL OF TEMPORARY GATE STA 12+40.00 RT WHICH WAS INSTALLED FOR TEMPORARY ACCESS TO AMMUNITION PLANT.
18. ROUNO STEEL DRIVE PLATE, "X" THICK TO BE INSTALLED AND IMPROVED TO 12" RC ARCON AT STRUCTURE 5000 PAGE 58.
19. TO BE USED FOR LEAK CONTROL.
20. ALL PAVEMENT MESSAGE SHALL BE POLY PREFORM EXON LEXAPX COAT AND PARKING LOT WHICH SHALL BE FOR FENCE. REMOVE EXISTING BENCHING REMAINING WALL. NO. SEE SHEET 51. FENCE TO BE BLACK VINYL CLAD.
21. TO BE USED FOR 12" RC PIPE. SHALL BE 12" RC PIPE ARCON.
22. SPECIAL EXCAVATION SHALL INCLUDE REMOVING AND 15" REINFORCED GRANULAR SURCHARGE STA 11+50.00 TO 11+643.0.
23. TO BE USED TO BE PLACED WITHIN SURCHARGE AREA STA 11+540.0 TO 11+646.0.
24. TO BE USED FOR FINAL DESIGN SPECIAL SHALL BE INSTALLED ALONG EXISTING SECURITY FENCE FOR TWIL CITY AMMUNITION PLANT. THE BLOWING TOWNSHIP.
25. TO BE USED FOR SPECIAL. REMOVE EXISTING PAVEMENT.
26. REMOVE WATER ACCESS MANHOLE AT STA 11+730.0 AND 11+740.0. TO BE USED FOR 12" RC PIPE. SEE SHEET 39.0 & 50.0 FOR DETAILS.
27. TO BE USED FOR IMPROVE OVER INFLUENCE 60" WATER AROUND AT STA 11+930.0 AND STA 12+740.0.

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX. 120 LBS/CSY
AGGREGATE BASE CLASS 7. 100 LBS/CSY
100 LBS/CSY

TACK COAT

- MILLED SURFACE 0.07 GAL/CSY
- BETWEEN NEW LAYERS 0.05 GAL/CSY

TURF ESTABLISHMENT

- SEED MIXTURE 50.0 LBS/ACR
- SEED MIXTURE 258.0 LBS/ACR
- MULCH MATERIAL - TYPE 1 15.0 TON/ACR
- MULCH MATERIAL - TYPE 2 15.0 TON/ACR
- TYPE 1 HYDRAULIC CEMENT STABILIZER 1.00 TON/ACR

NOTES:

1. NEW SURFACE FENCE MUST BE IN PLACE BEFORE OLD FENCE IS REMOVED. REMOVAL OF FENCE INCLUDES BARBED WIRE.
2. TO BE USED AS DIRECTED BY THE ENGINEER.
3. TO BE INSTALLED AROUND STA. 124+00 R/L IN EXISTING FENCE FOR SECURED TEMPORARY ACCESS TO AMMUNITION PLANT.
4. TO BE USED FOR CONCRETE DISTRIBUTION SLABS OVER EXISTING FENCE.
5. TO BE USED FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL PROVIDE COLOR WITH COLOR MATCHING.
7. FURNISHING AND INSTALLING SIGN POSTS SHALL BE INCIDENTAL TO INSTALLING SIGN AND/OR FURNISHING SIGN.
8. TO BE USED FOR TREE PROTECTION. SEE REMOVAL PLANS FOR DETAILS.
9. TO BE USED FOR CULTIVAT MARKERS.
10. TO BE USED FOR CULTIVAT MARKERS.
11. FERTILIZER SHALL BE SLOW RELEASE TYPE.
12. REMOVAL OF STRUCTURES SHALL HAVE NO STEPS.
13. REMOVAL OF CONCRETE PAVEMENT MARKINGS SHALL BE INCIDENTAL TO ITEM 25#1-5001. REMOVABLE PREFORMED CURB SHALL BE USED FOR TEMPORARY ACCESS TO AMMUNITION PLANT.
14. SURVEY MONUMENT MANHOLE. SEE SHEET 13 FOR DETAILS IN MUCK EXCAVATION AREA.
15. POND EXCAVATION TO BE USED FOR SLOPE WATER FOR DETAILS IN MUCK EXCAVATION AREA.
16. POND EXCAVATION FOR POND NO. 2 ON COUNTY ROAD 1.
17. POND EXCAVATION FOR POND NO. 2 ON LEXINGTON AVENUE WHICH WAS USED FOR TEMPORARY ACCESS TO AMMUNITION PLANT.
18. STONE STEEL ORifice PLATE, 1/2" THICK TO BE INSTALLED BETWEEN 15" RCP AND 15" RC APRON AT STRUCTURE PLATE.
19. TO BE USED ON LEPAK CURB.
20. TO BE USED ON LEPAK CURB.
21. REMOVAL OF EXISTING MANHOLES SHALL BE POLY PREFORM EXCEPT FOR LEPAK CURB AND PARKING LOT WHICH SHALL BE SPON ON LEPAK CURB AND PARKING LOT.
22. FENCE TO BE INSTALLED BETWEEN RETAINING WALL NO. 1 AND EXISTING FENCE TO BE BLACK WIRE.
23. ORifice PLATE FOR 15" RCP PIPE SHALL BE INCIDENTAL.
24. SPECIAL EXCAVATION 3 SHALL INVOLVE REMOVING AND RECONSTRUCTING OF GRAVEL GRANULAR SURFACE STA 113+60 TO 116+43.
25. SPECIAL EXCAVATION 2 TO BE PLACED WITHIN SURCHARGE AREA STA 113+60.
26. FURNISHING SPECIAL AND GATE DESIGN SPECIAL SHALL BE INSTALLED IN EXISTING FENCE FOR FENCE FOR THE CITY AMMUNITION PLANT FOR THE BLINDING TURTLES SEE SHEET 13 FOR DETAILS.
27. REMOVE WATER ACCESS MANHOLE AT STA 117+30 AND CONSTRUCT MANHOLE AT STA 117+30 AND CONSTRUCT MANHOLE AT STA 117+30 AND CONSTRUCT MANHOLE AT STA 117+30 FOR DETAILS.
28. CONSTRUCT MANHOLE OVER INPLACE 60" WATER MANHOLE AT STA 117+30 FOR DETAILS.

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX.....	120 LB/SY/IN
GRADE CLASS B.....	105 LB/SY/IN
- MILLED SURFACE.....	0.07 GAL/SY
- MILLER IN NEW LAYERS.....	0.05 GAL/SY
URF ESTABLISHMENT.....	
- SEED MIXTURE 50#.....	50 LB/AC/AC
- SEED MIXTURE 25#.....	60 LB/AC/AC
- MULCH MIXTURE TYPE 1.....	15 TON/AC/AC
- COMERCIAL FERTILIZER 10-20-20.....	200 LB/AC/AC
- TYPE 1 HYDRAULIC SOIL STABILIZER.....	200 LB/AC/AC

CITY DEPARTMENT OF PUBLIC WORKS

SHEET
OF
128

MISCELLANEOUS REMOVAL & SALVAGE & RELOCATION [A]						
STATION TO STATION	LOCATION	REMOVAL		BITUMINOUS CURB	CONCRETE CURB & GUTTER	CHAINLINK FENCE (SECURITY)
		BITUMINOUS PAVEMENT	BITUMINOUS DRIVEWAY			
EXISTING COUNTY ROAD 1						
100+12 TO 110+00	LT & RT	2320	45	230		
111+50 TO 120+00 (LEPAK)	LT & RT	1765	640	1600		
121+00 TO 130+00 (LEPAK)	LT & RT					
SUBTOTAL (COUNTY ROAD 1)		4085	685	245	1830	
EXISTING LEXINGTON AVENUE						
411+50 TO 426+50	LT & RT	2455	140	1050	1840	
426+50 TO 432+00	LT & RT	1560	530	870		
SUBTOTAL (LEXINGTON AVENUE)		4015	670	1920	2240	
EXISTING LEPK COURT						
50+00 TO 59+75	LT & RT					815
SUBTOTAL (LEPK COURT)						815
TOTAL		8100	1355	2165	1830	815

TYPE "C" SIGNS (SALVAGE) [B]			
SIGN NO.	SAP 62-603-14	SAP 62-651-41	PANEL LEGEND
C-101	5	3	STOP
C-102	2	2	CSAH 3 ROUTE MARKER
C-103	2	2	BEER CROSSING
C-104	2	2	RIGHT TURN LANE
C-105	2	2	SPEED LIMIT 40
C-106	2	2	STOP AHEAD
C-107	2	2	BICYCLE CROSSING
C-108	2	2	NO PARKING
C-109	1	1	ETRE STATION AHEAD
C-110	1	1	SPEED LIMIT 45
C-111	2	2	CSAH 3 ROUTE MARKER
C-112	2	2	OBJECT MARKER
C-113	2	2	PEDESTRIAN CROSSING
C-114	2	2	SCHOOL CROSSING
C-115	2	2	DOWN ARROW
C-116	2	2	LANE DESIGNATION (LEFT, RIGHT)
C-117	21	18	

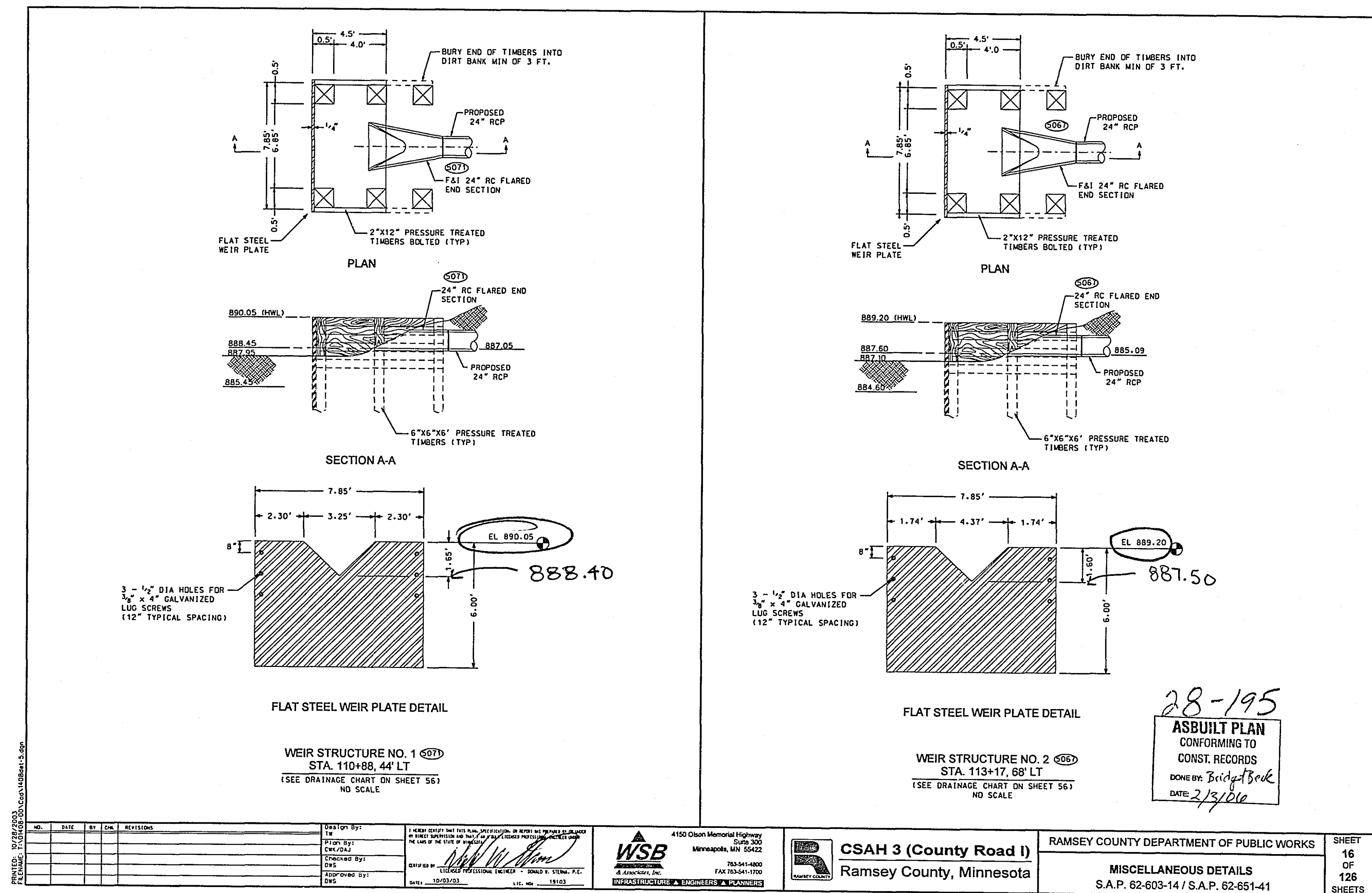
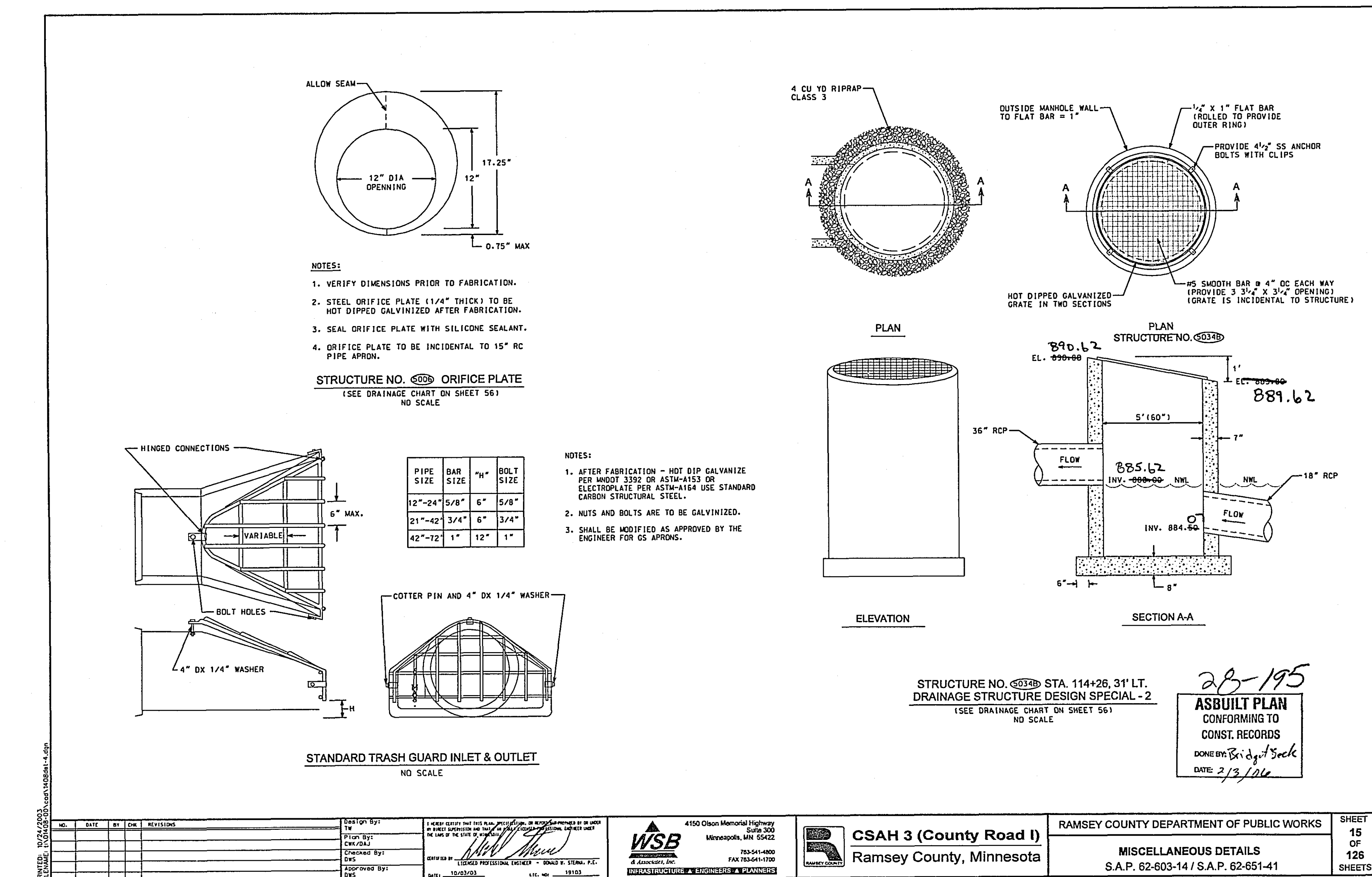
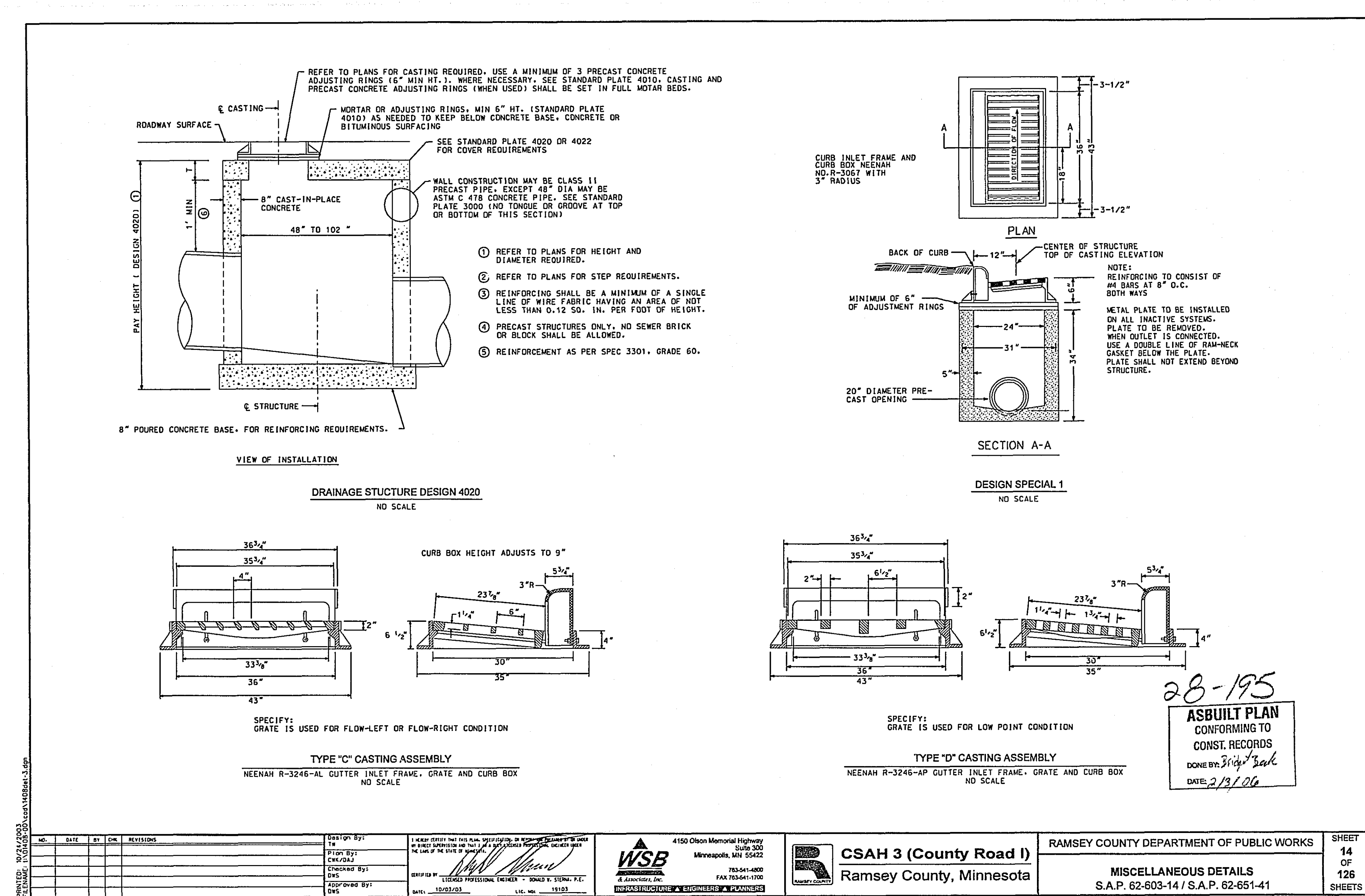
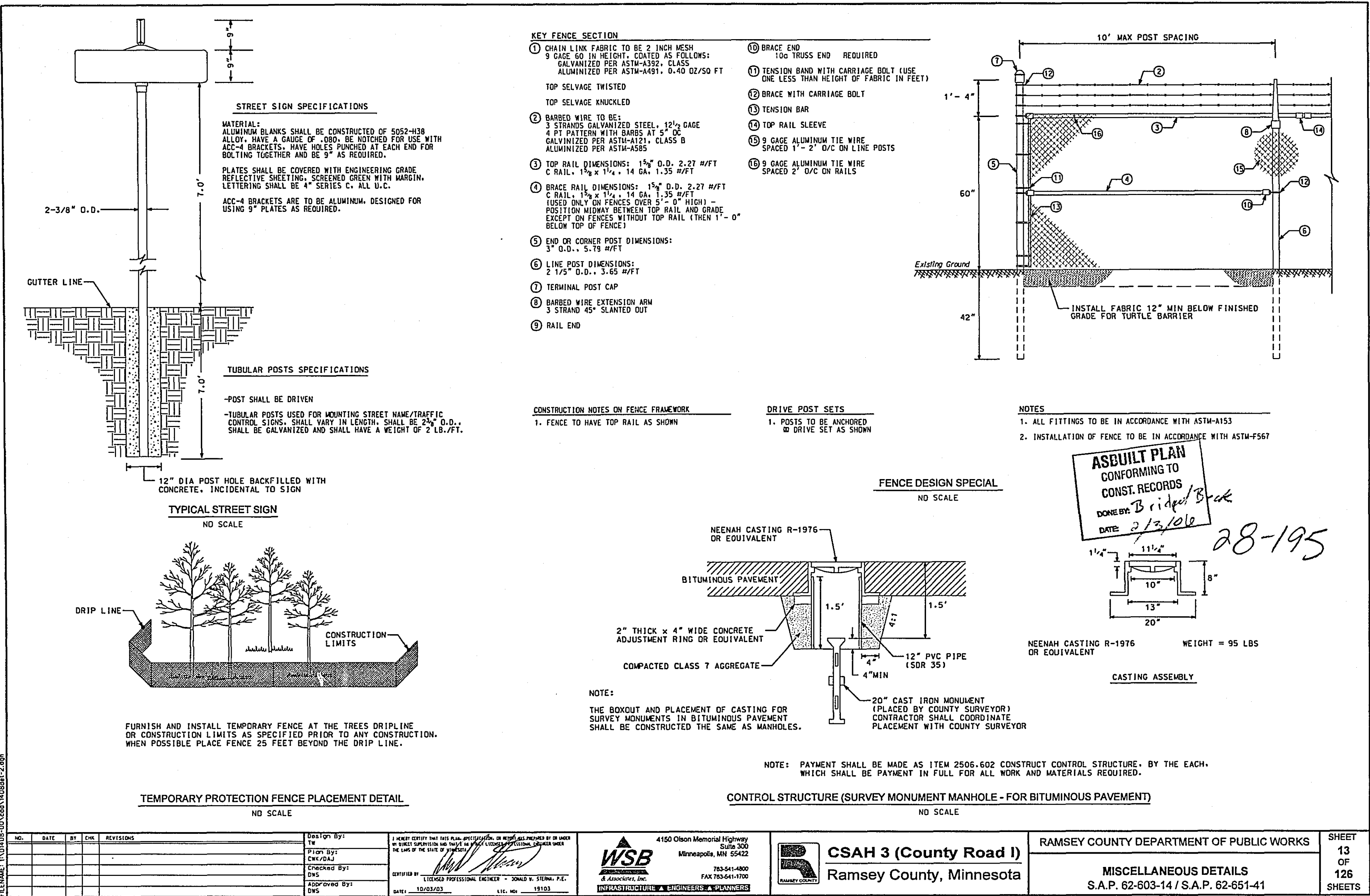
TYPE "SPECIAL" SIGNS (SALVAGE) [C]			
SIGN NO.	QUANTITY	S.A.P.	PANEL LEGEND
SP-101	4	4	DUNLAP AVE
SP-102	2	2	COUNTY RD
SP-103	2	2	LEXINGTON AVE
SP-104	1	1	WOOD DUCK CT

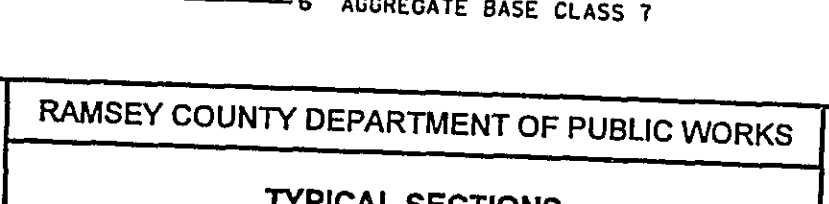
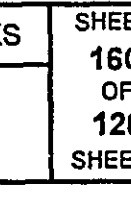
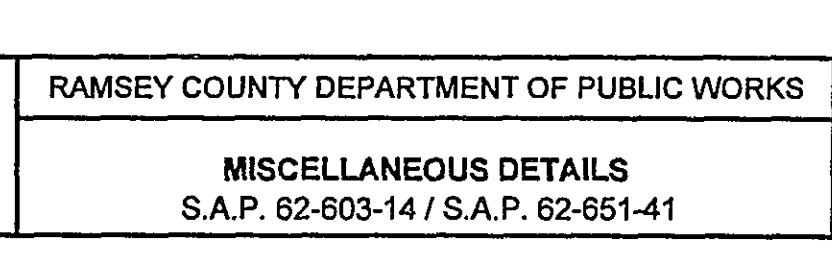
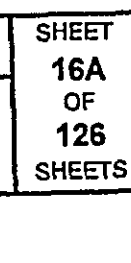
- NOTES:
- SEE MISCELLANEOUS REMOVAL PLANS FOR LOCATIONS OF SIGNS TO BE REMOVED
 - SALVAGED SIGNS THAT ARE TO BE REINSTALLED SHALL USE 3/4" POSTS.
 - SIGNS TO BE SALVAGED AND REINSTALLED TEMPORARILY FOR 911 EMERGENCY IDENTIFICATION. ONCE NEW SIGNS ARE INSTALLED, THE SALVAGED SIGNS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.

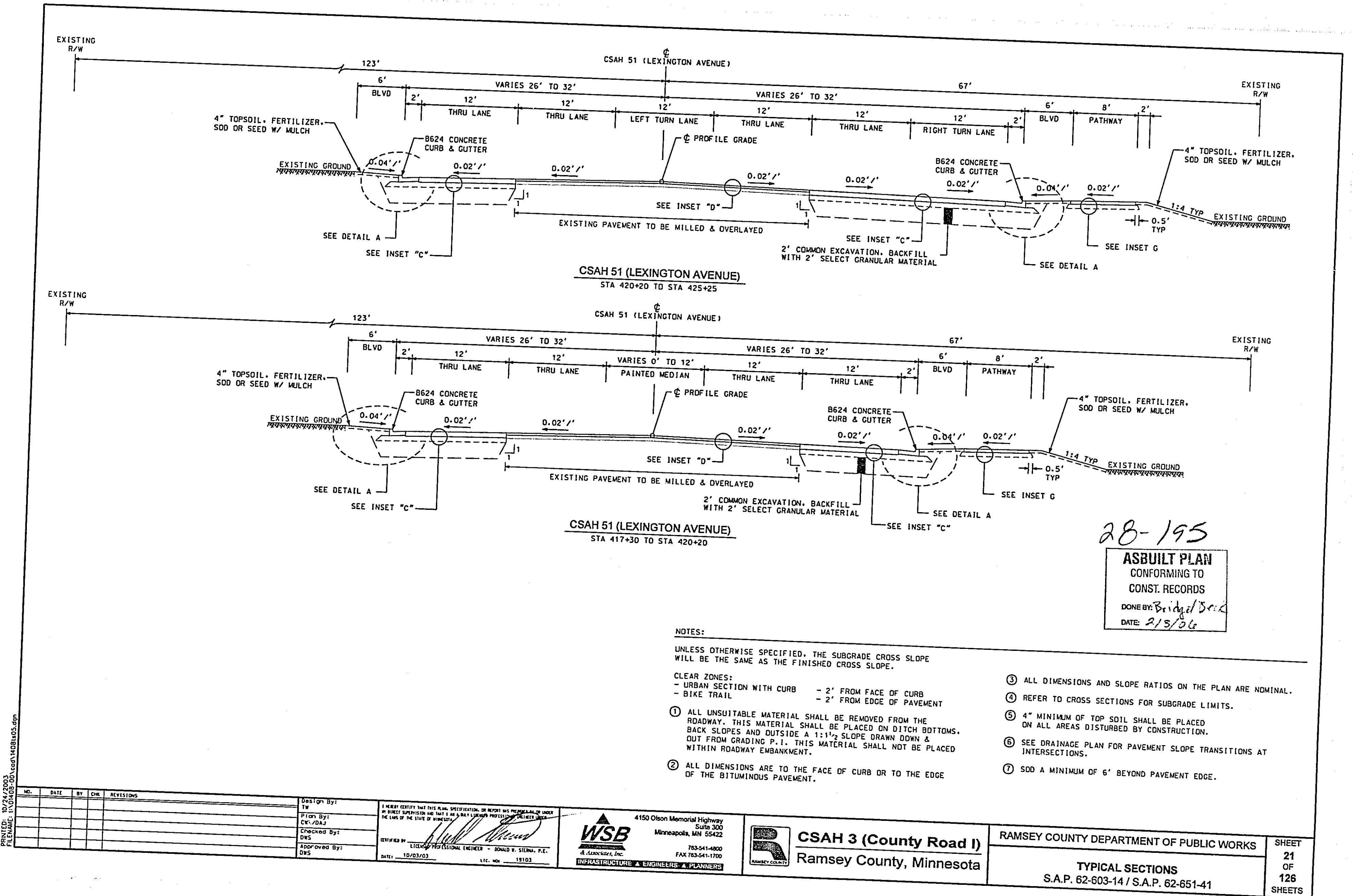
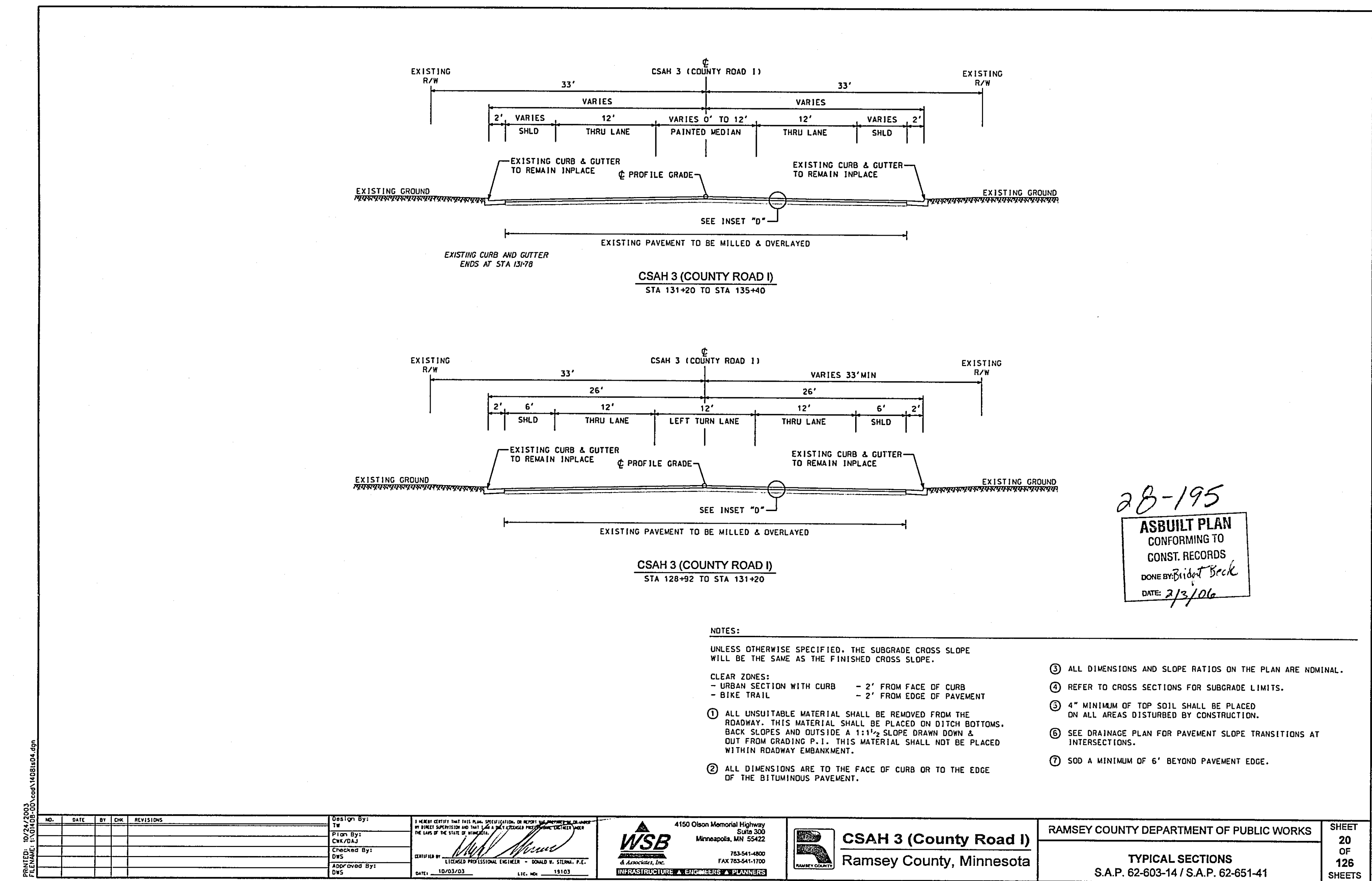
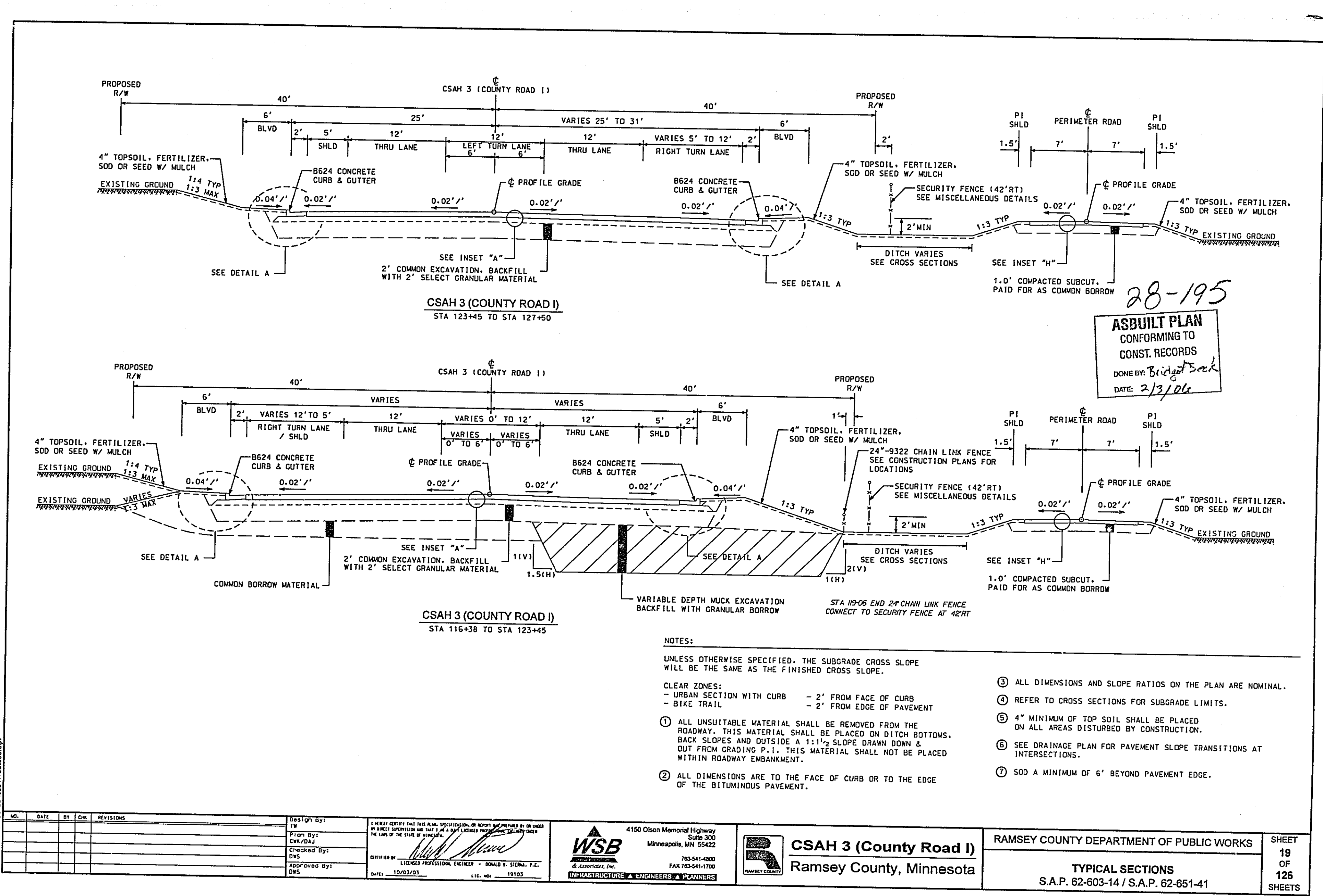
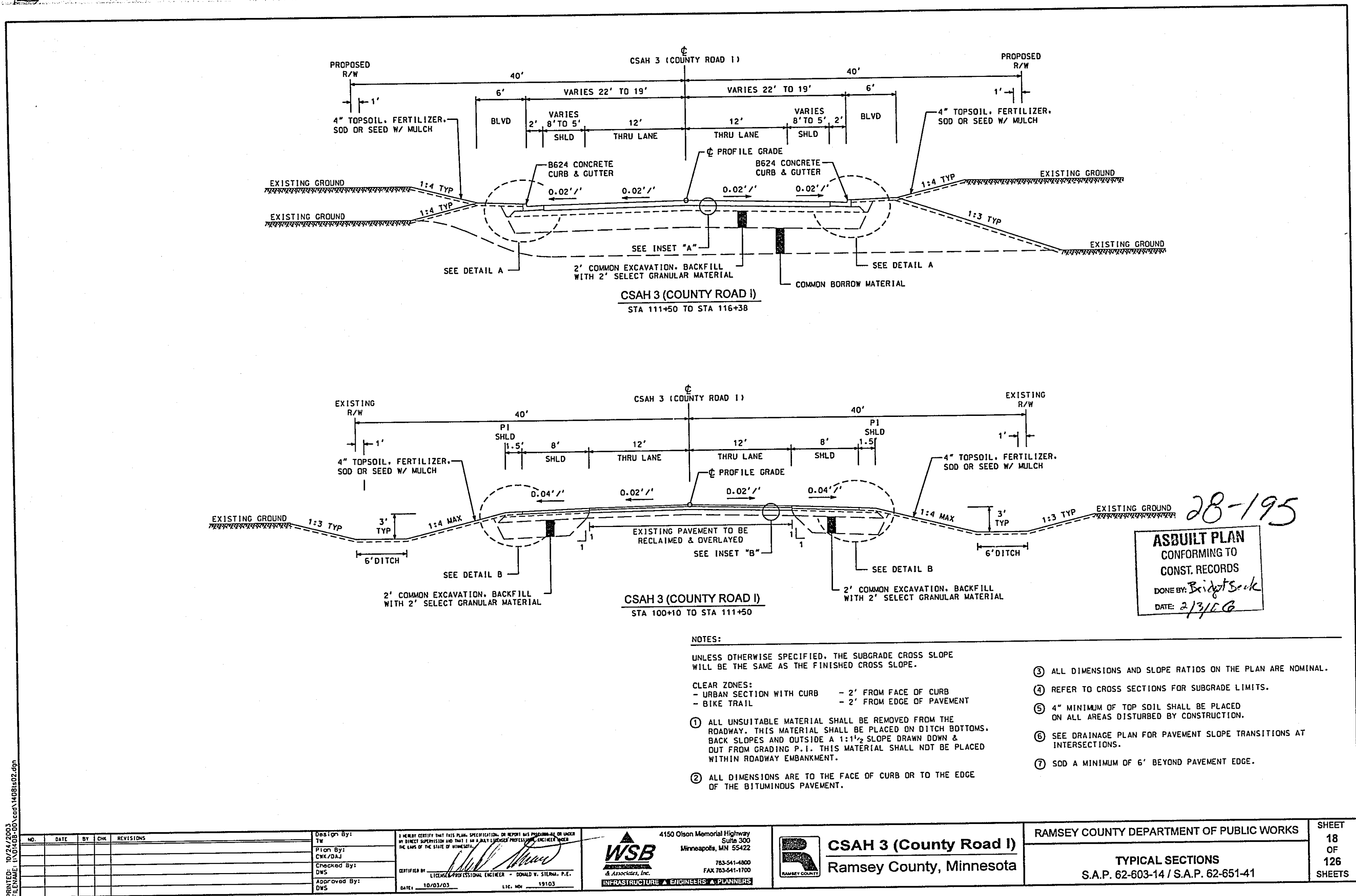
28-195
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DATE: 2/3/06

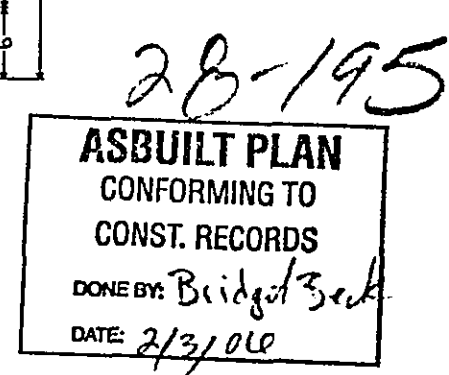
SAWING & MILLING PAVEMENT [D]					
STATION TO STATION	LOCATION	MILL		SAW	SAW
		BITUMINOUS PAVEMENT 50 YD	BITUMINOUS RECONSTRUCTION 50 YD		
COUNTY ROAD 1					
100+12 TO 104+00	35' LT - 45' RT			101	
104+00 TO 104+10	45' LT			30	
104+10 TO 104+53	11' LT - 21' RT			24	
104+53 TO 104+90	10' LT - 14' RT			1	
104+90 TO 104+95	60' LT - 80' RT			51	
104+95 TO 104+97	25' LT - 25' RT			330	
104+97 TO 104+98	11' LT			410	
104+98 TO 104+100	11' LT			405	
104+100 TO 104+110	11' LT			330	
104+110 TO 104+116	11' LT			410	
104+116 TO 104+120	11' LT			405	
SUBTOTAL COUNTY ROAD 1		1055	3390	215	
LEITCH AVENUE					
414331 TO 414363	37' RT			28	
414363 TO 414377	52' RT			15	
414377 TO 414387	88.5' RT			44	
414387 TO 421442	18' LT - 65' RT			44	
421442 TO 421450	11' LT			44	
421450 TO 425446	18' LT - 45' RT			44	
425446 TO 425450	149' LT			44	
425450 TO 425454	25' RT			38	
425454 TO 425459	60' RT			15	
425459 TO 430402	52' LT - 41' RT			5	
430402 TO 430405	70' LT - 20' RT			6	
430405 TO 430410	21' RT - 35' RT			2	
430410 TO 430422	11' LT	9455		1860	
430422 TO 430425	11' LT	3550		3223	38
430425 TO 430429	11' LT			330	
SUBTOTAL LEITCH AVENUE		2200		533	28
LEAP CORT					
5014 TO 5014+2046	71' LT - 63' LT			63	2
5014+2046 TO 5014+2050	14' LT			1	
5014+2050 TO 5014+2053	19' LT - 20' RT			36	
5014+2053 TO 5014+2055	14' LT			40	
5014+2055 TO 5014+2059	11' LT			2	
5014+2059 TO 5014+2060	56' RT			13	
5014+2060 TO 5014+2063	65' RT			2	
5014+2063 TO 5014+2065	70.5' LT			55	12
5014+2065 TO 5014+2068	65.5' RT			55	2
5014+2068 TO 5014+2070	14' LT - 15' RT			37	
5014+2070 TO 5014+2071	62' RT			3	
5014+2071 TO 5014+2073	50' LT - 40' LT			75	2
5014+2073 TO 5014+2075	100' LT - 126' LT			6	
5014+2075 TO 5014+2076	11' LT			44	
5014+2076 TO 5014+2080	11' LT		2600	933	28
SUBTOTAL (LEAP CORT)			2600	533	28
TOTAL		9545	6190	4331	66

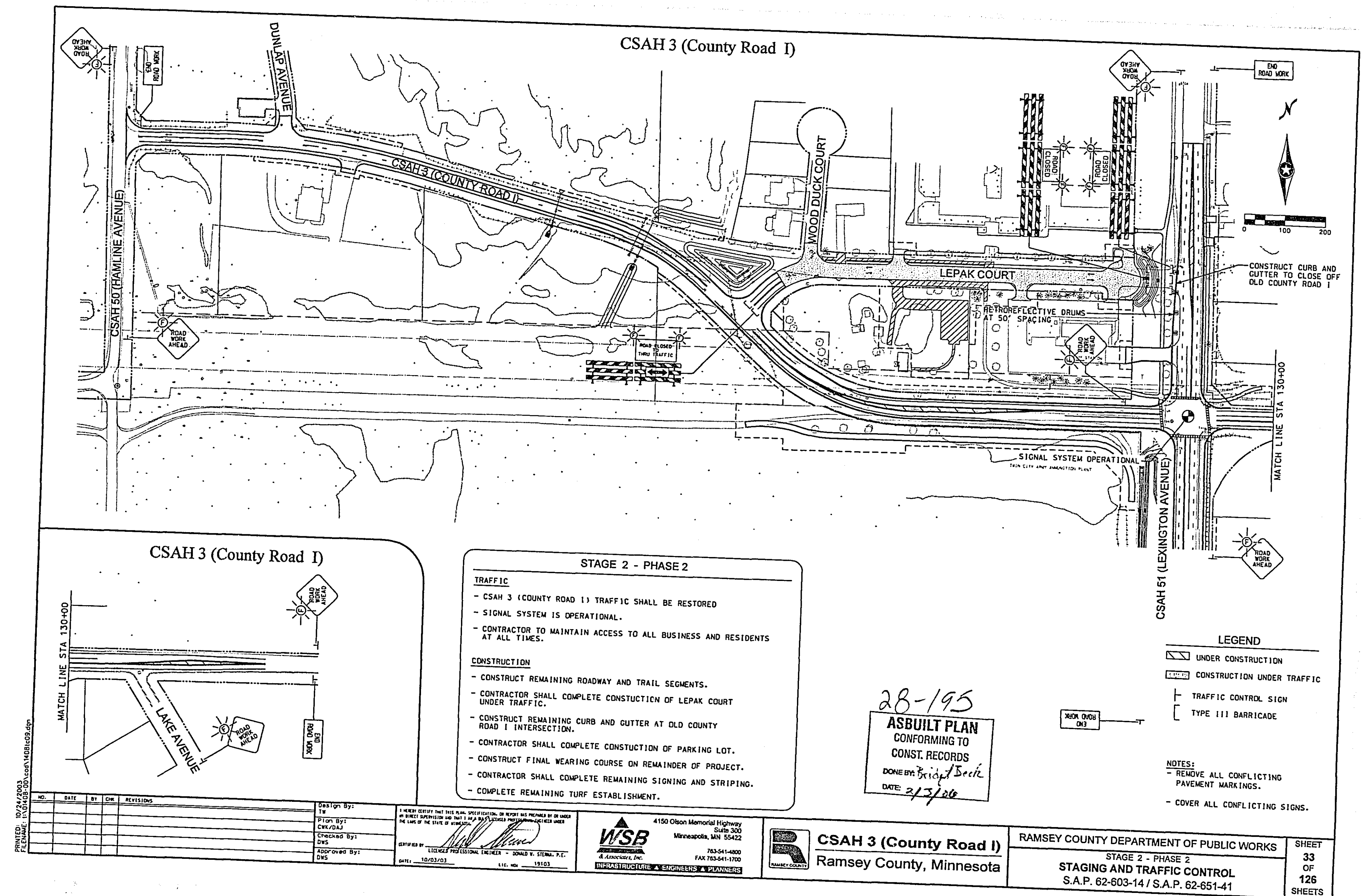
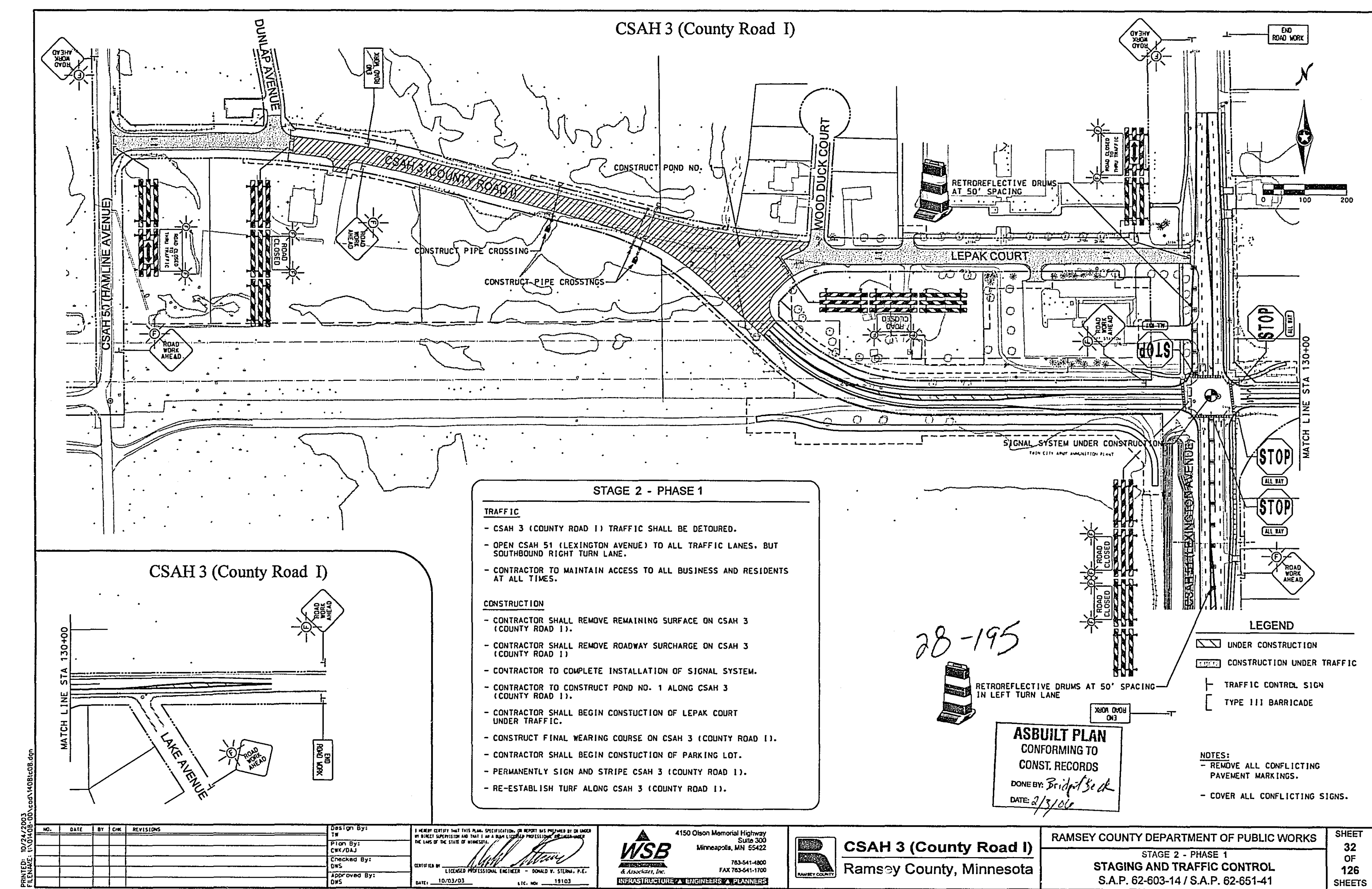
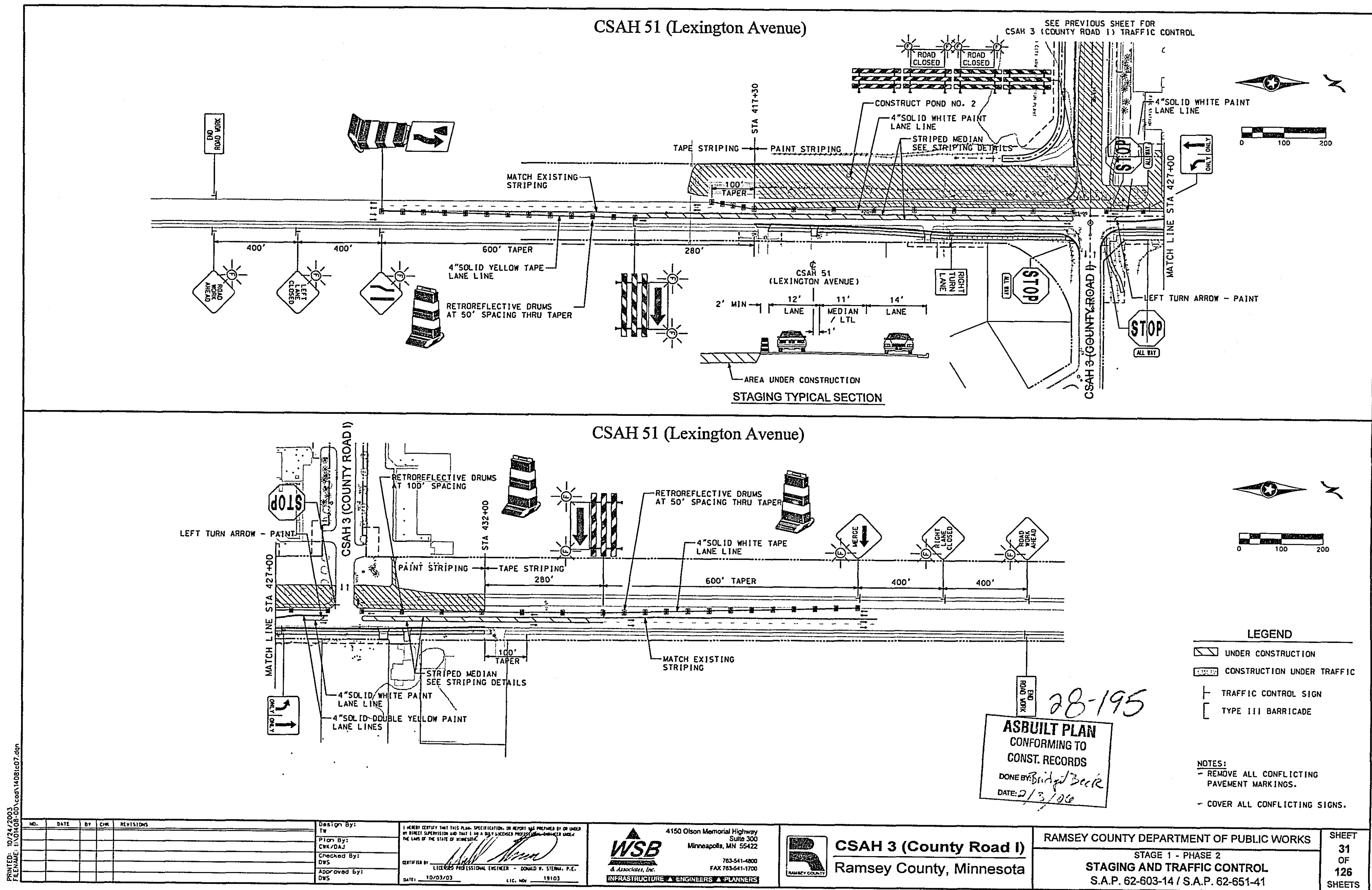
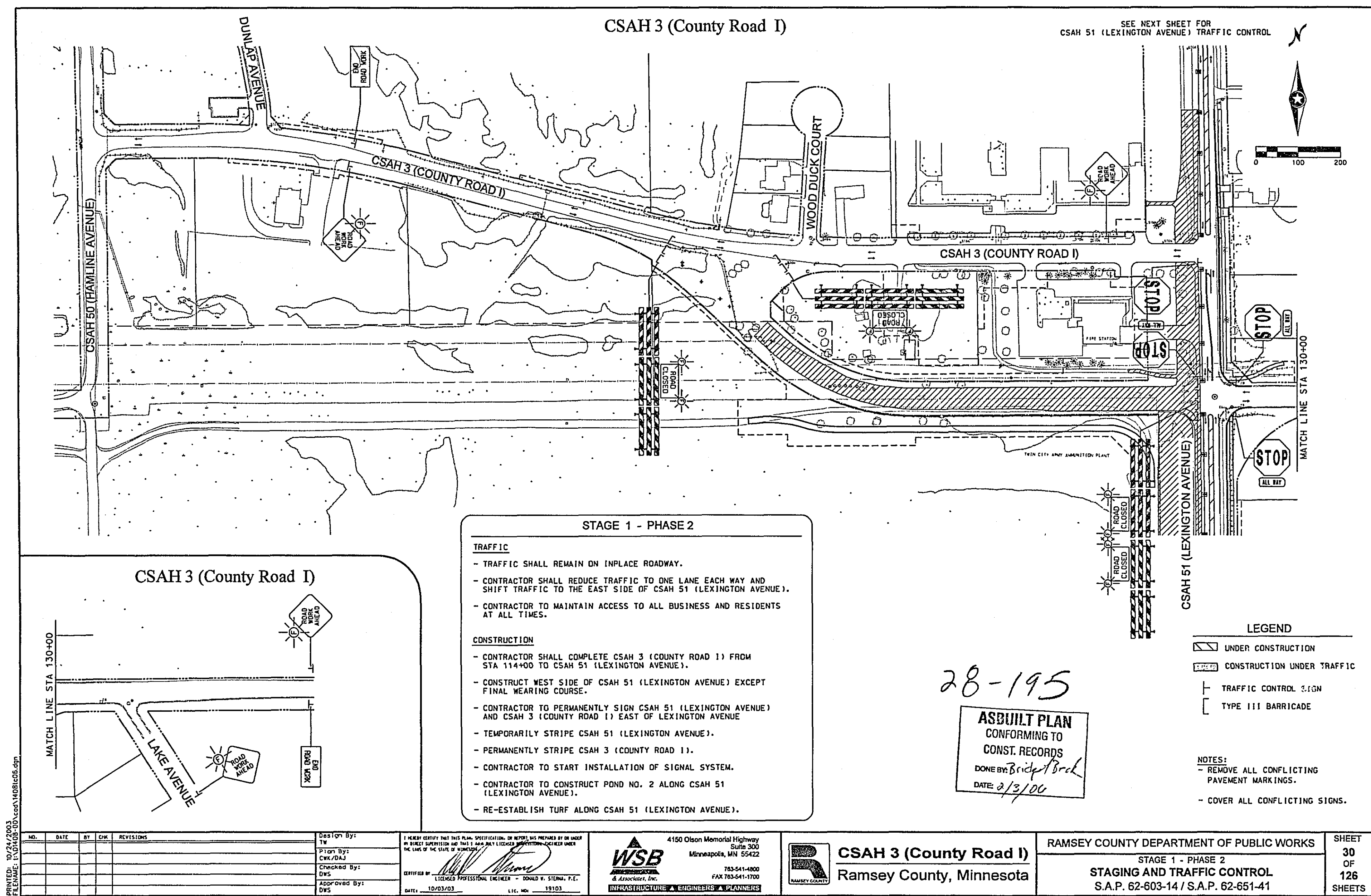
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OF	126
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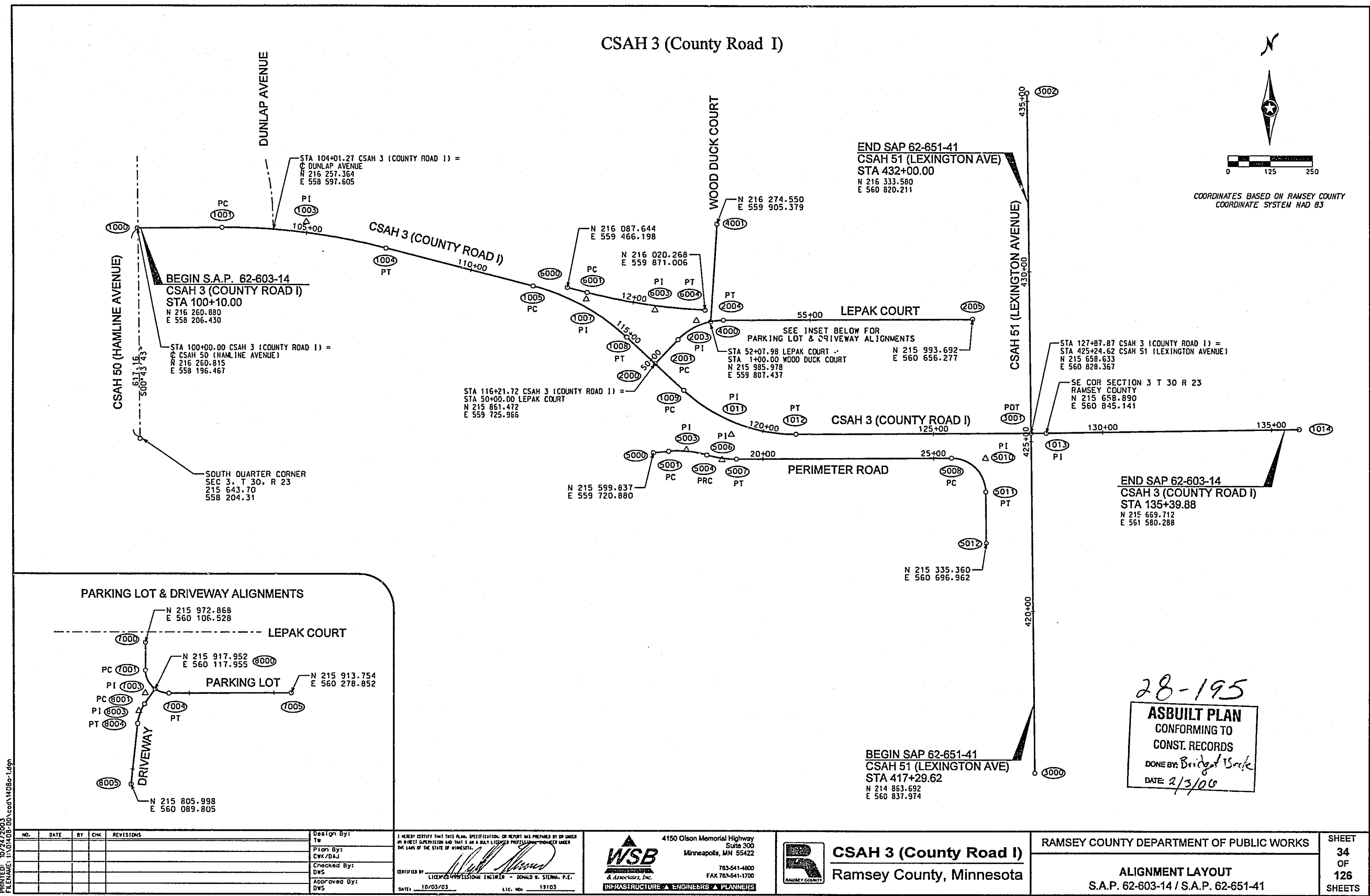












CSAH 3 (COUNTY ROAD I) ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
1000	BOP	100+00.0000						558196.4669	216260.3146	N 89°37'28" E	249.8369
1001	PC	102+40.8369						558445.2984	216262.4456		
1002	RADIUS	N/A	14°43'54"	03°00'00"	246.8915	1909.8609	491.0597	558457.8164	214352.6266		
1003	PI	104+95.7284						558692.1846	216264.0638		
1004	PT	107+28.8965						558931.3664	216262.4471	S 15°38'38" E	447.5408
1005	PC	111+47.4213						559394.9317	216091.8793		
1006	RADIUS	N/A	28°45'51"	00°58'41"	183.3456	637.0000	319.8004	559206.5875	215476.7710		
1007	PI	113+50.7829						559523.1764	216051.3777		
1008	PT	115+07.2377						559642.4041	215939.3240	S 40°58'44" E	228.5154
1009	PC	117+35.7332						559809.2000	215783.5240		
1010	RADIUS	N/A	43°26'51"	12°00'42"	190.0509	477.0000	361.7109	560135.2488	216131.6913		
1011	PI	119+25.8041						559947.9201	215653.6161		
1012	PT	120+97.4640						560137.9680	215654.6991	N 89°40'25" E	735.4075
1013	PC	128+32.8716						560873.3636	215658.8898	N 89°38'36" E	750.0000
1014	EOP	135+39.888						561623.2731	215670.5408		

LEPAK COURT ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
2000	BOP	50+00.0000						559725.9650	215861.4700	N 43°07'16" E	97.0923
2001	PC	50+97.0923						559792.3328	215932.3387		
2002	RADIUS	N/A	40°35'04"	31°28'52"	78.3523	182.0000	147.9155	559925.1764	215807.9338		
2003	PI	51+75.4447						559945.8900	215899.5288		
2004	PT	52+45.0678						559924.2413	215899.9314	N 89°42'20" E	735.0451
2005	EOP	59+71.1139						560636.2777	215993.6928		

CSAH 51 (LEXINGTON AVENUE) ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
3000	BOP	415+24.6200						560840.4507	214558.1064	N 00°41'33" E	1000.0000
3001	PC	423+24.6200						560828.3570	214556.6354	N 00°41'33" E	1000.0000
3002	EOP	425+24.6200						560816.2832	214658.5604		

WOOD DUCK COURT ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
4000	BOP	1+00.0000						558881.6375	215989.2046	N 03°33'28" E	285.8950
4001	EOP	3+45.8850						558925.3789	216274.3486		

PERIMETER ROAD ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
5000	BOP	10+00.0000						558466.1980	216081.6427	S 75°38'37" E	60.1284
5001	PC	10+40.1284						559524.4488	216072.7338		
5002	RADIUS	N/A	11°29'42"	03°16'21"	176.1385	1750.0000	351.0947	559595.3518	217768.0861		
5003	PI	12+36.2670						559695.0811	216029.0602		
5004	EOP	14+11.2231						559871.0050	216020.2678		

PARKING LOT ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
7000	BOP	600+00.0000						560106.5282	215977.8578	S 00°00'00" W	32.8604
7001	PC	600+32.8604						560106.5282	215940.0074		
7002	RADIUS	N/A	90°17'40"	21°12'24"	21.1391	21.0000	42.5502	560106.5282	215940.0074		
7003	PI	600+59.3935						560106.5282	215912.8883		
7004	PT	600+75.4106						560133.6663	215913.0078	N 89°42'20" E	145.1867
7005	EOP	602+20.5973						560278.8517	215913.7537		

DRIVEWAY ALIGNMENT TABULATION

POINT	CONTROL POINT	STATION	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH	EASTING	NORTHING	DIRECTION	DISTANCE
8000	BOP	8+00.0000						560111.9516	215917.9516	S 35°13'34" W	21.7899
8001	PC	8+00.0000						560105.3915	215900.1681	S 31°33'06" W	0.0000
8002	RADIUS	N/A	25°25'49"	10°35'32"	12.4355	55.3000	24.4640	560152.5224	215871.2315		
8003	PI	8+34.2054						560208.8904	215889.5710		
8004	PT	8+46.2333						560201.5454	215871.2084	S 00°12'11" W	71.6304
8005	EOP	9+17.8644						560289.8045	215805.5975		

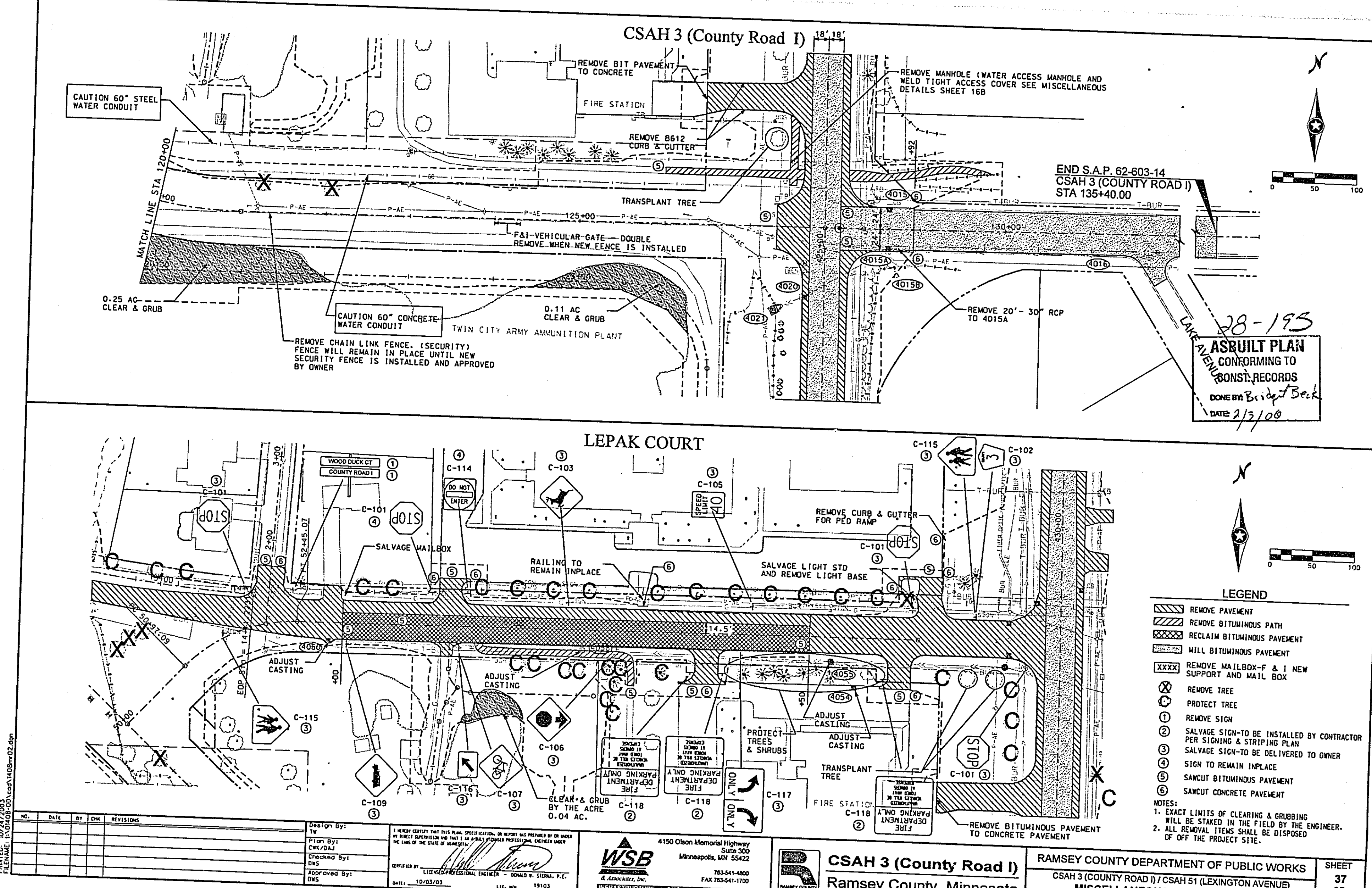
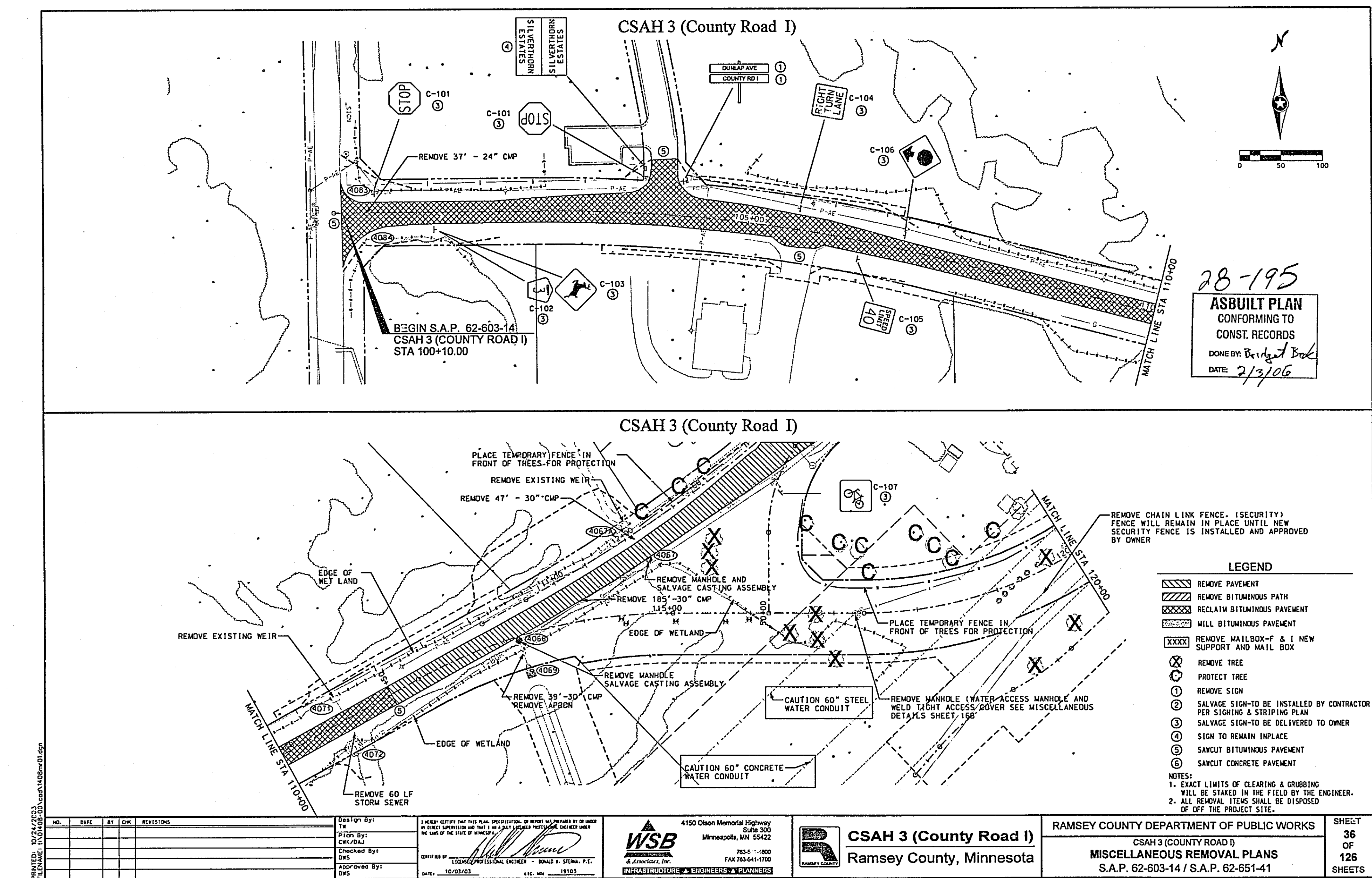
28-195
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DATE: 2/3/06

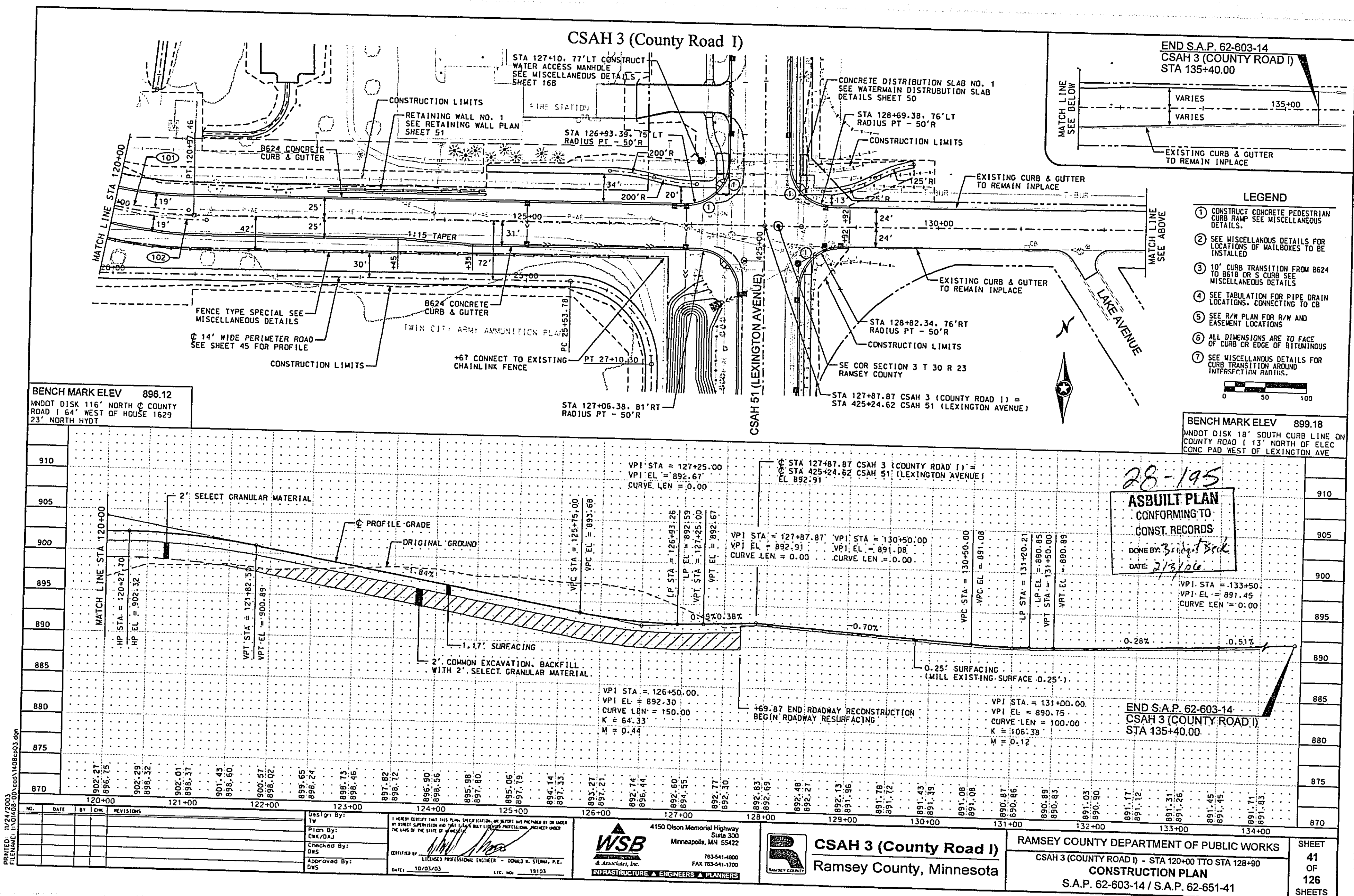
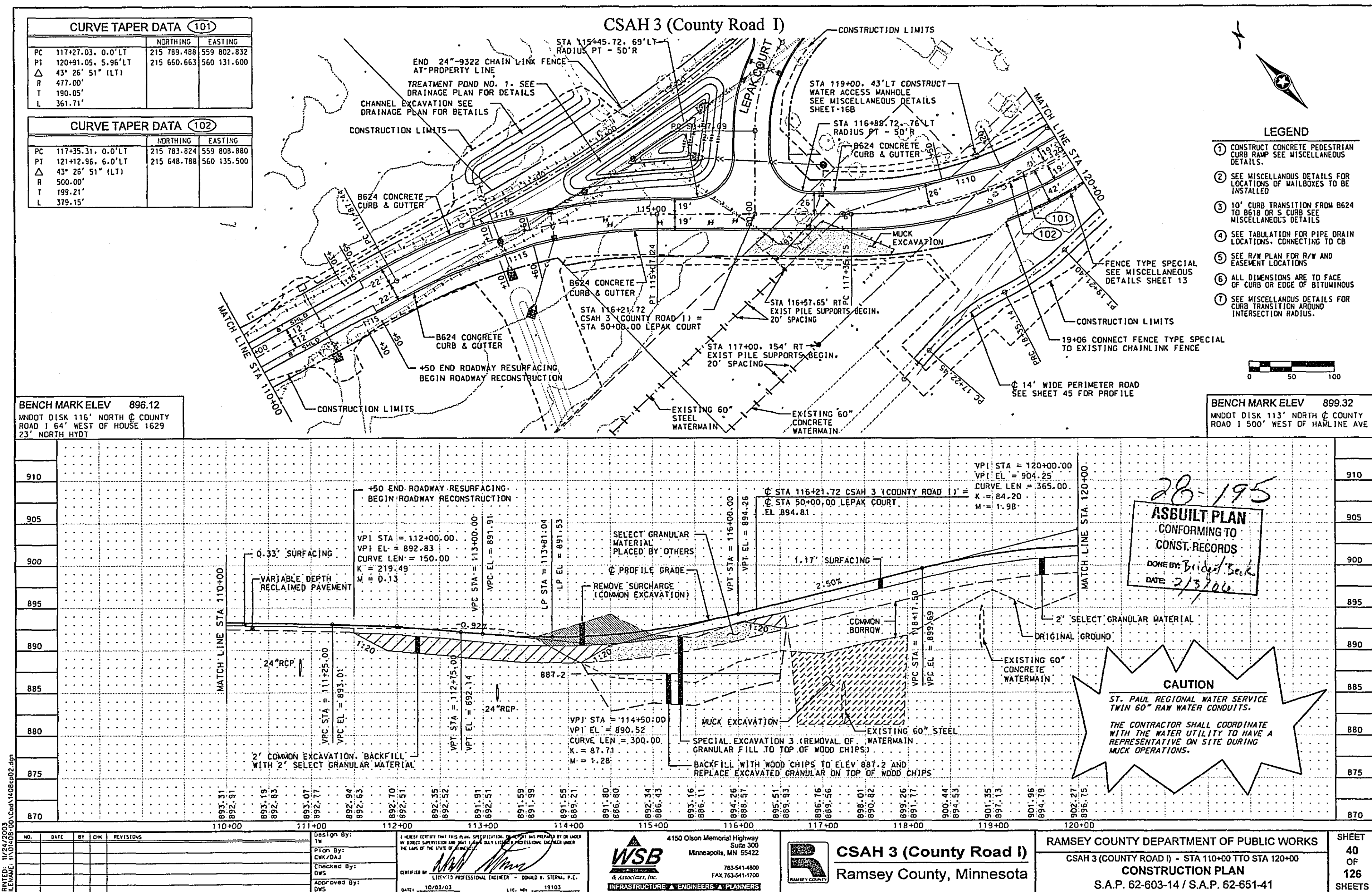
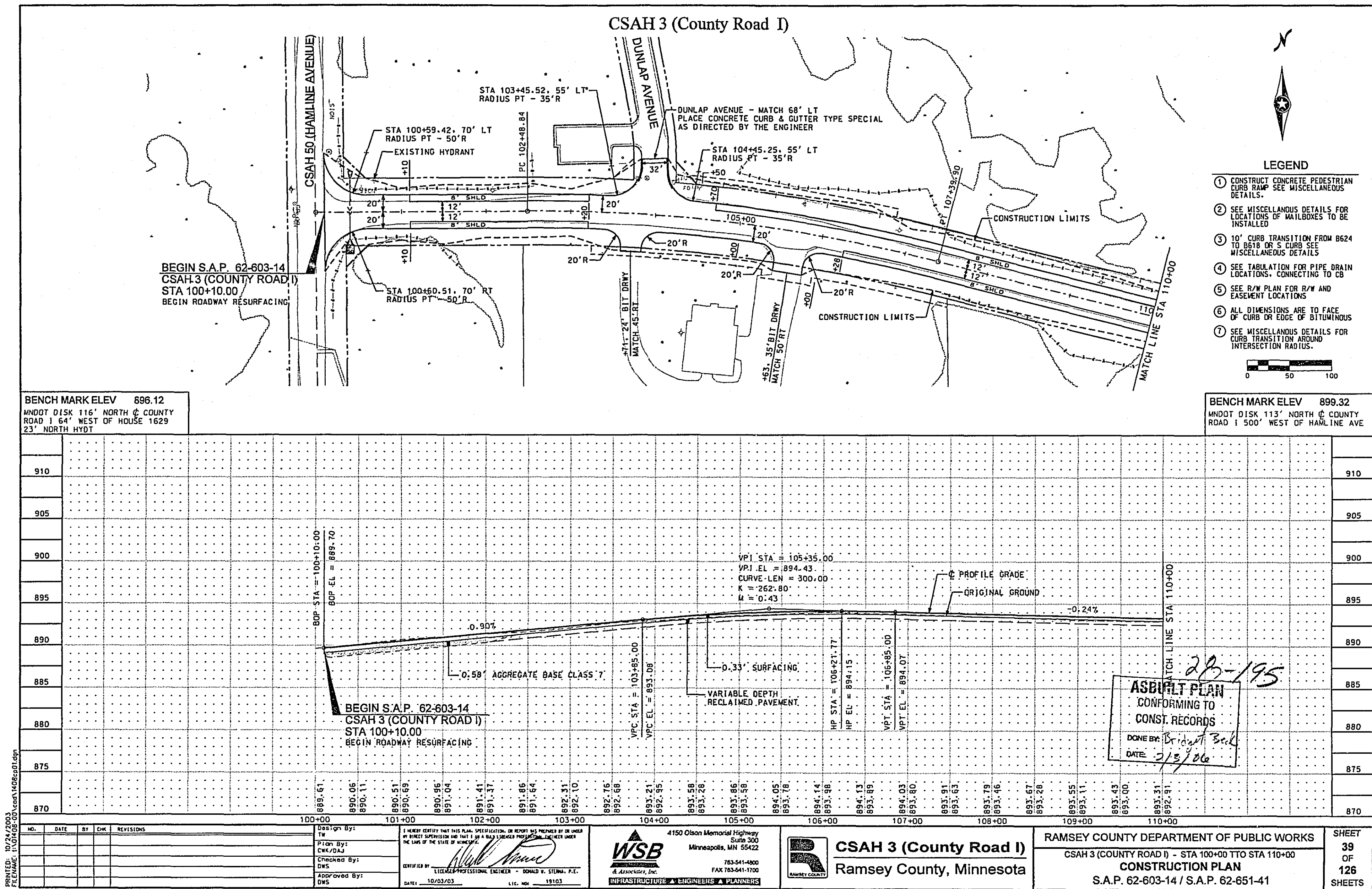
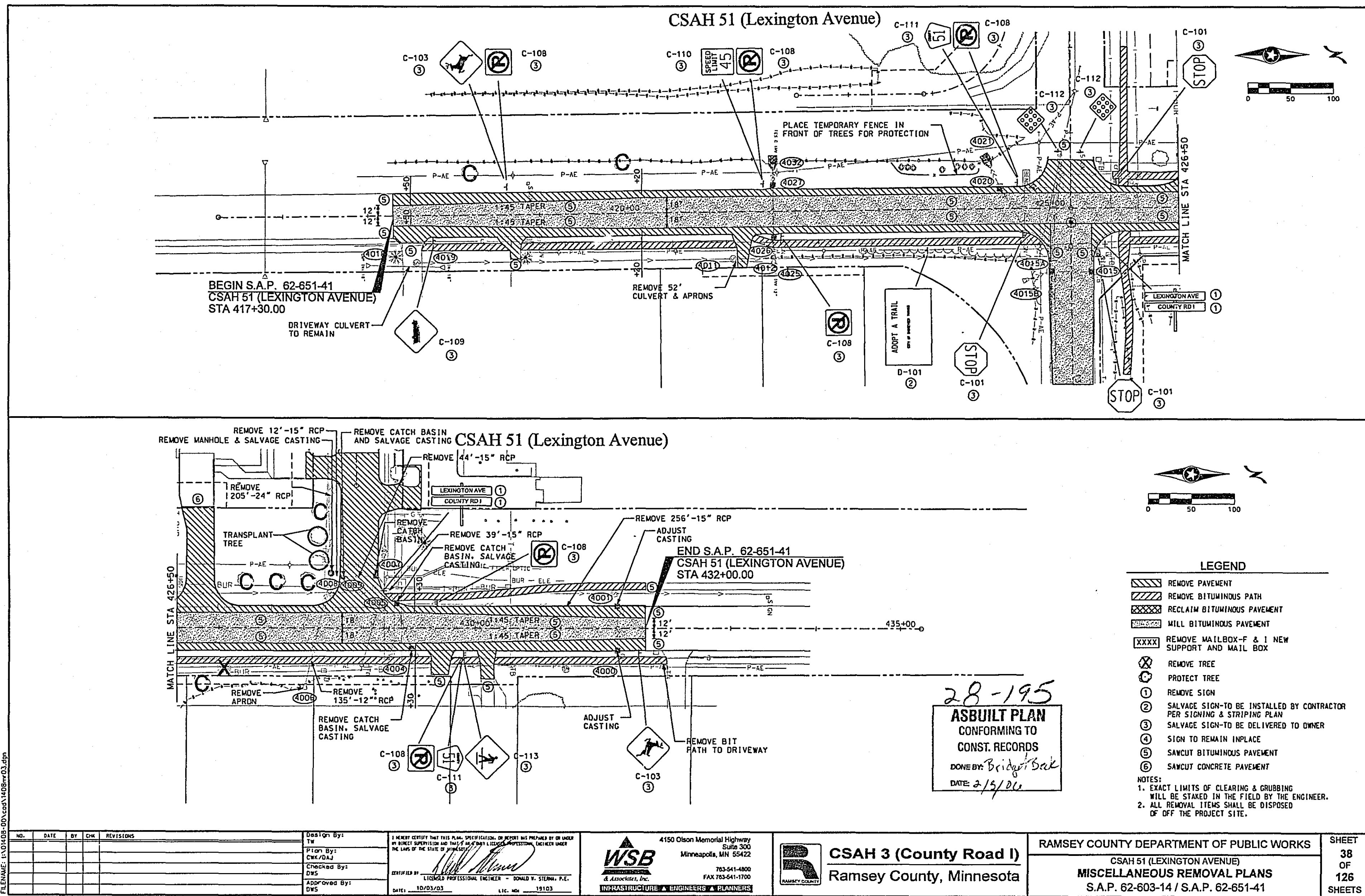
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Suite 200
Minneapolis, MN 55422
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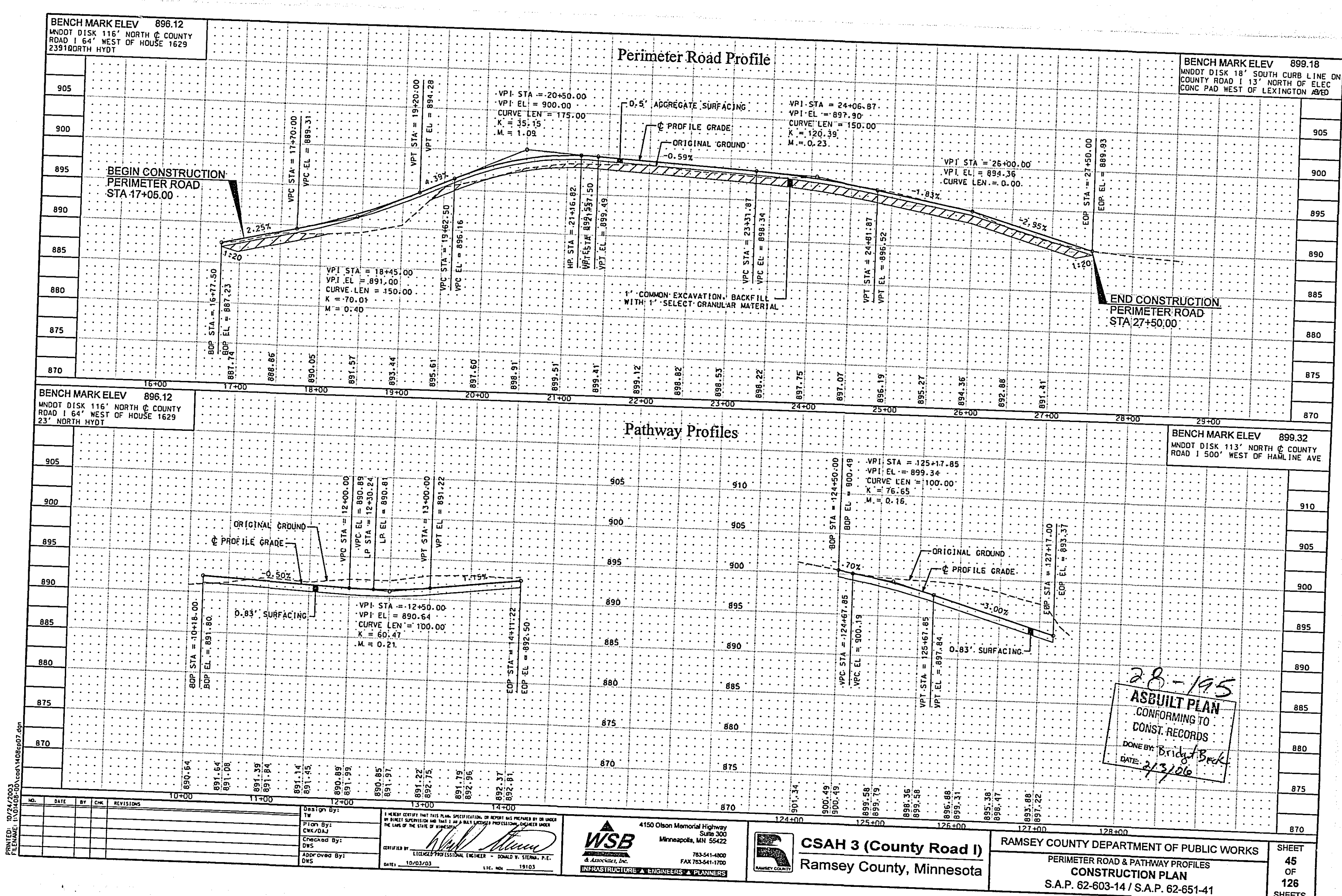
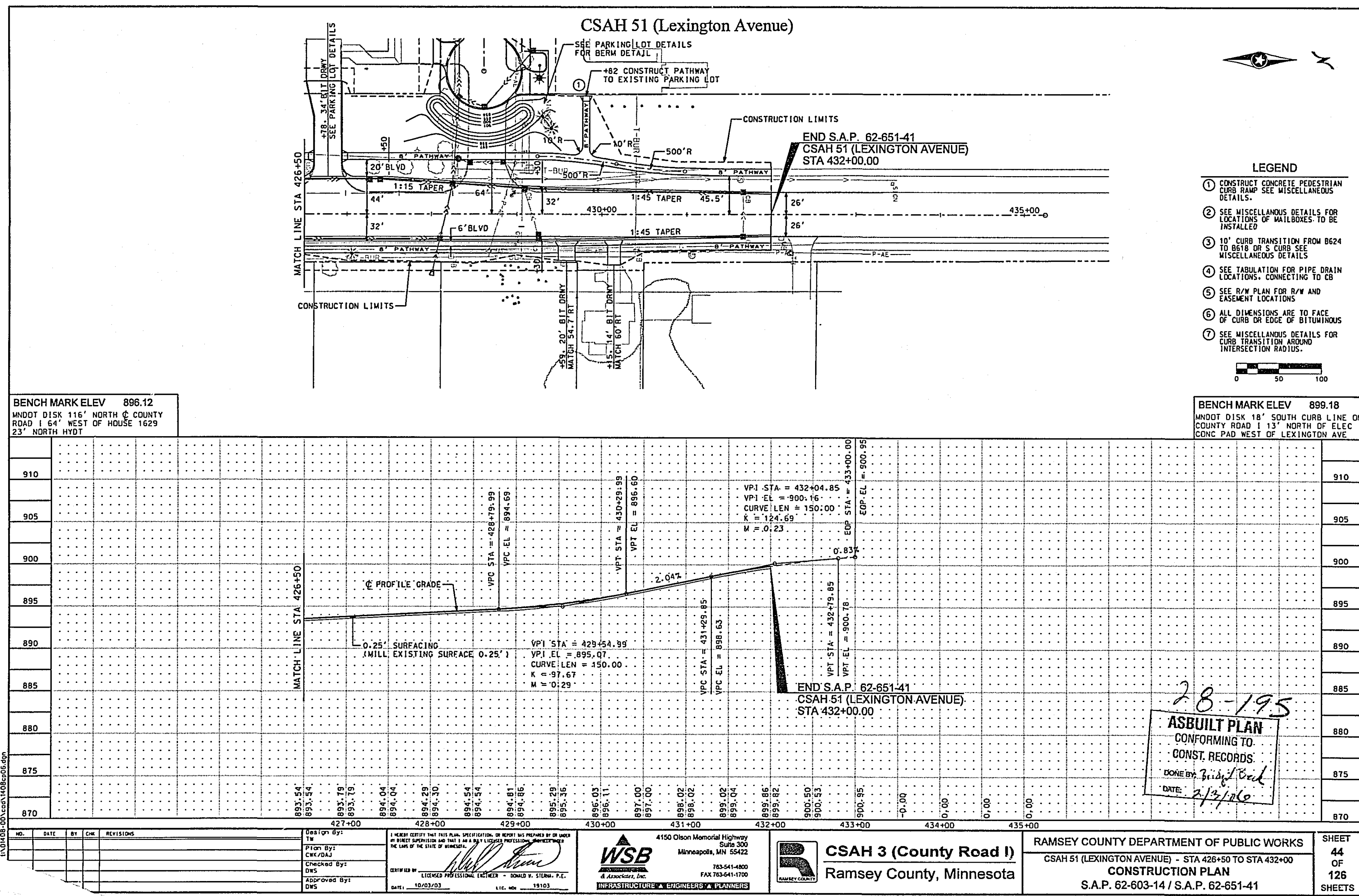
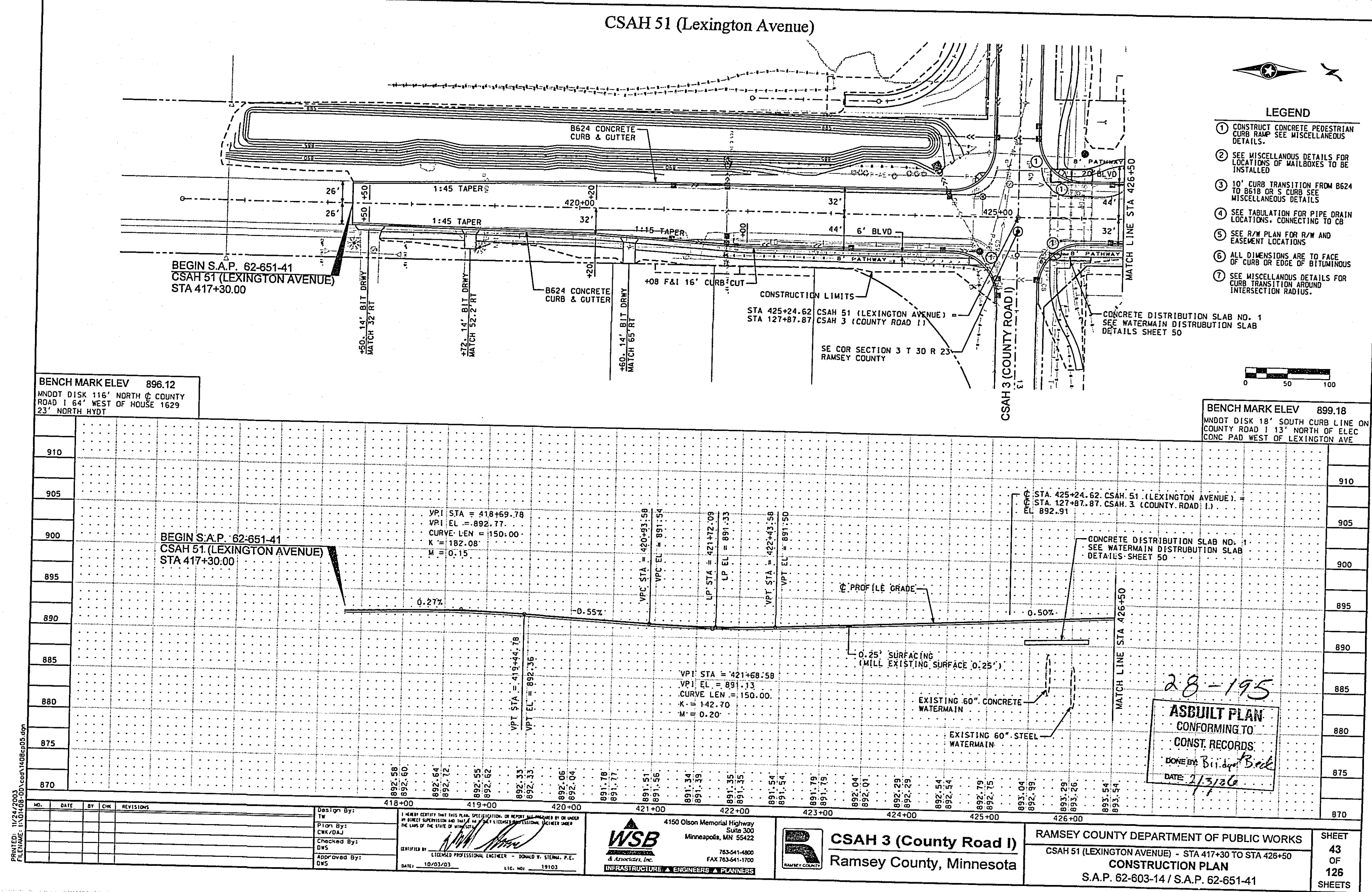
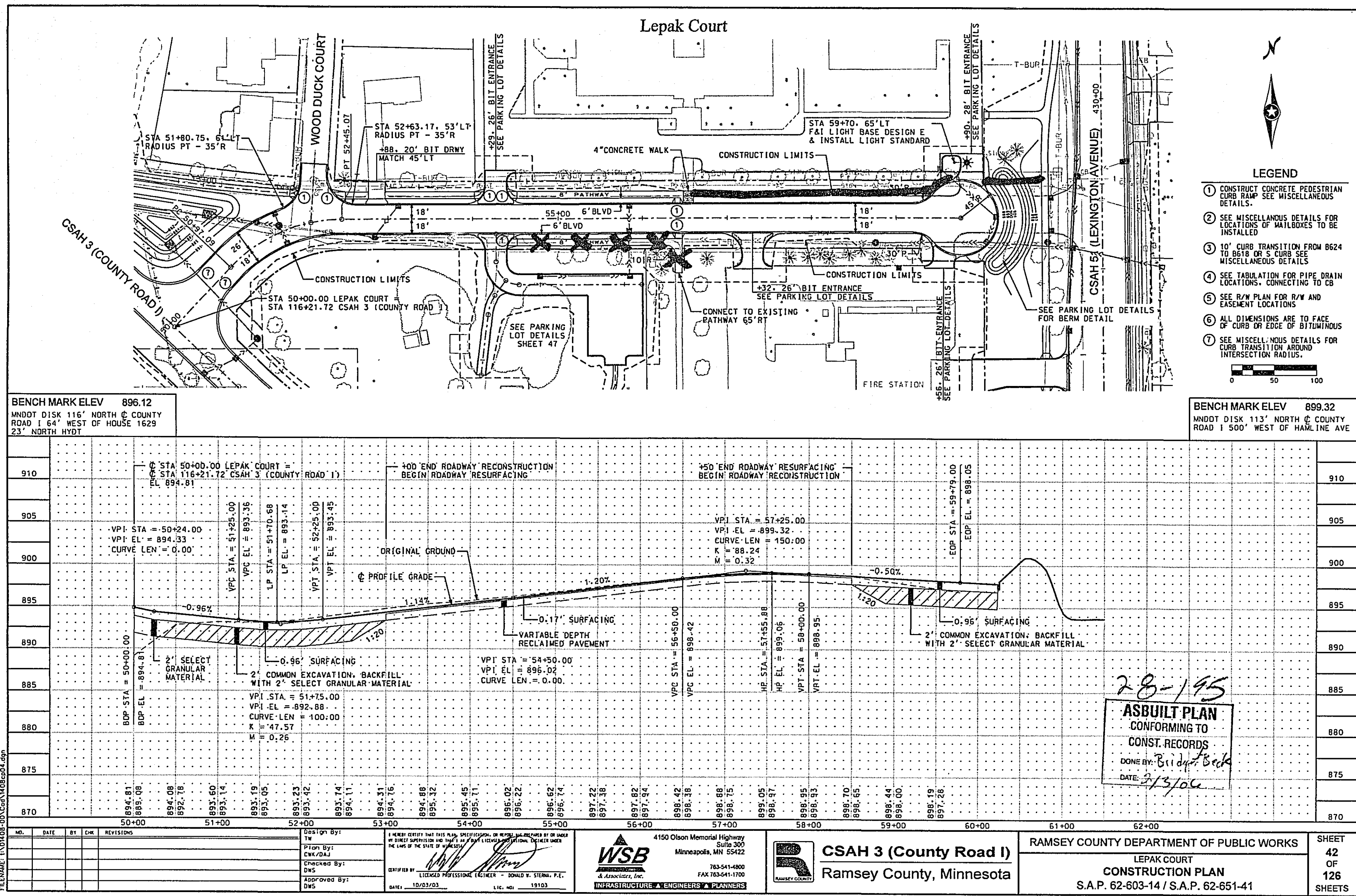
CSAH 3 (County Road I)
Ramsey County, Minnesota

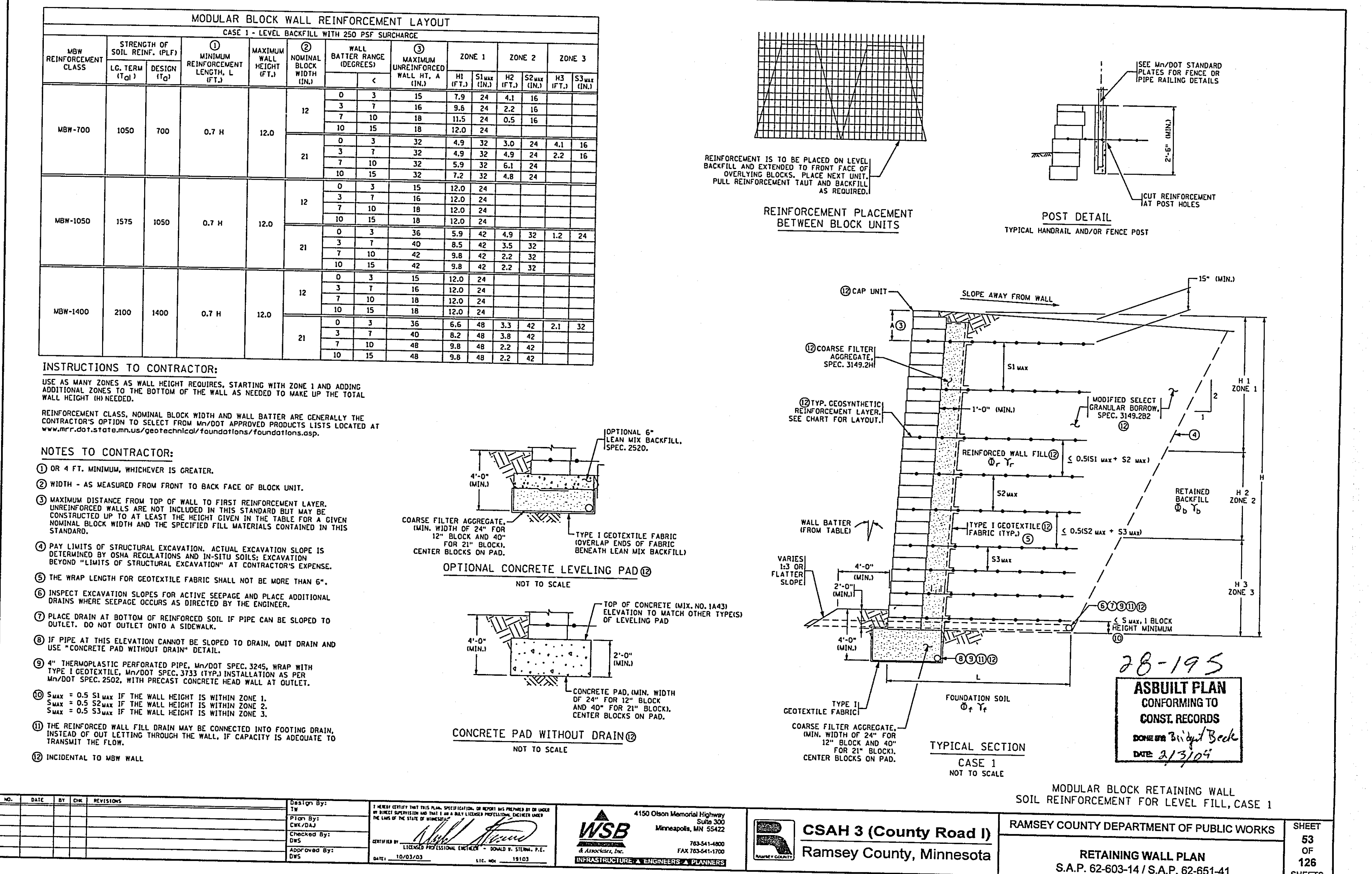
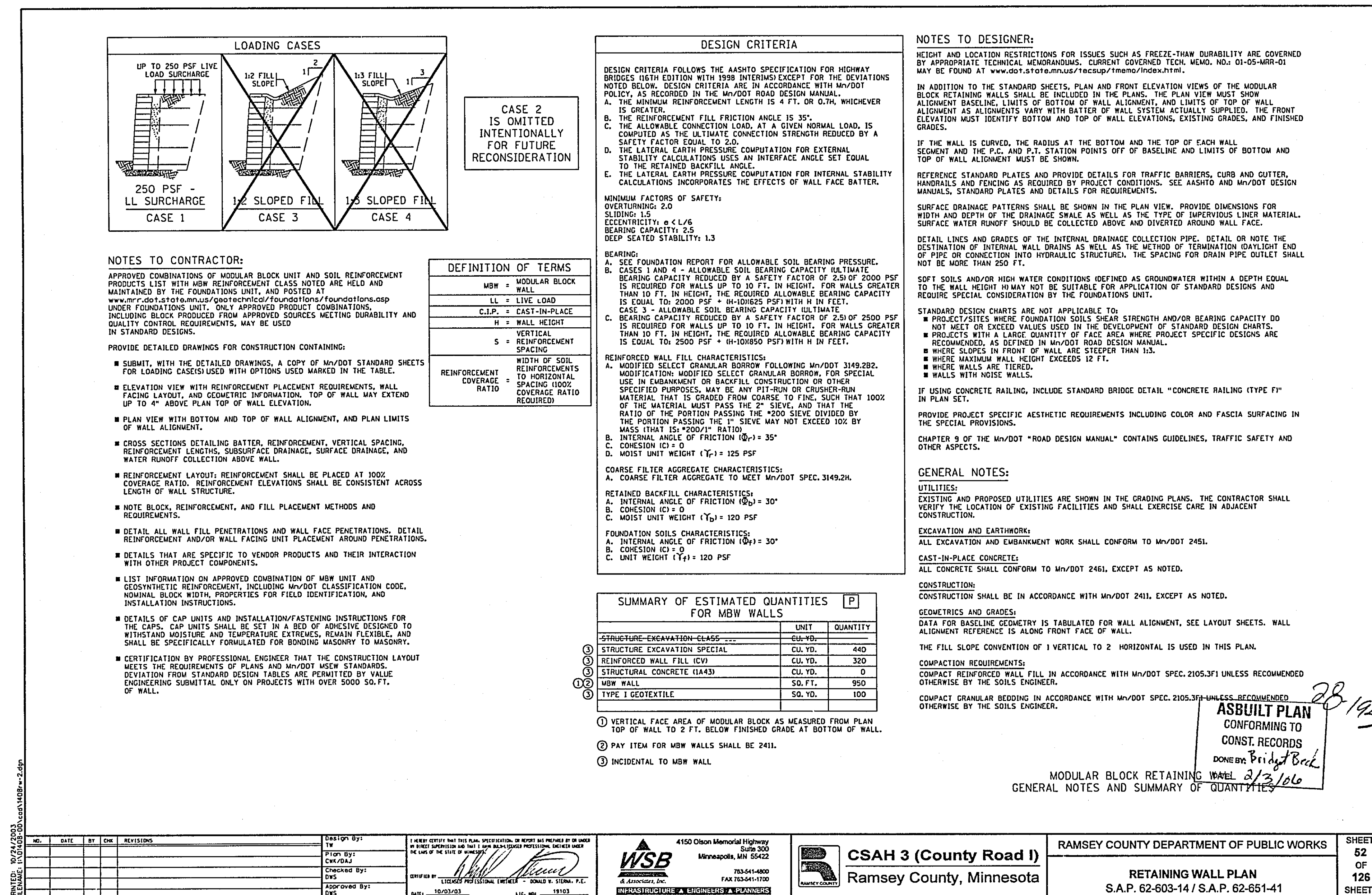
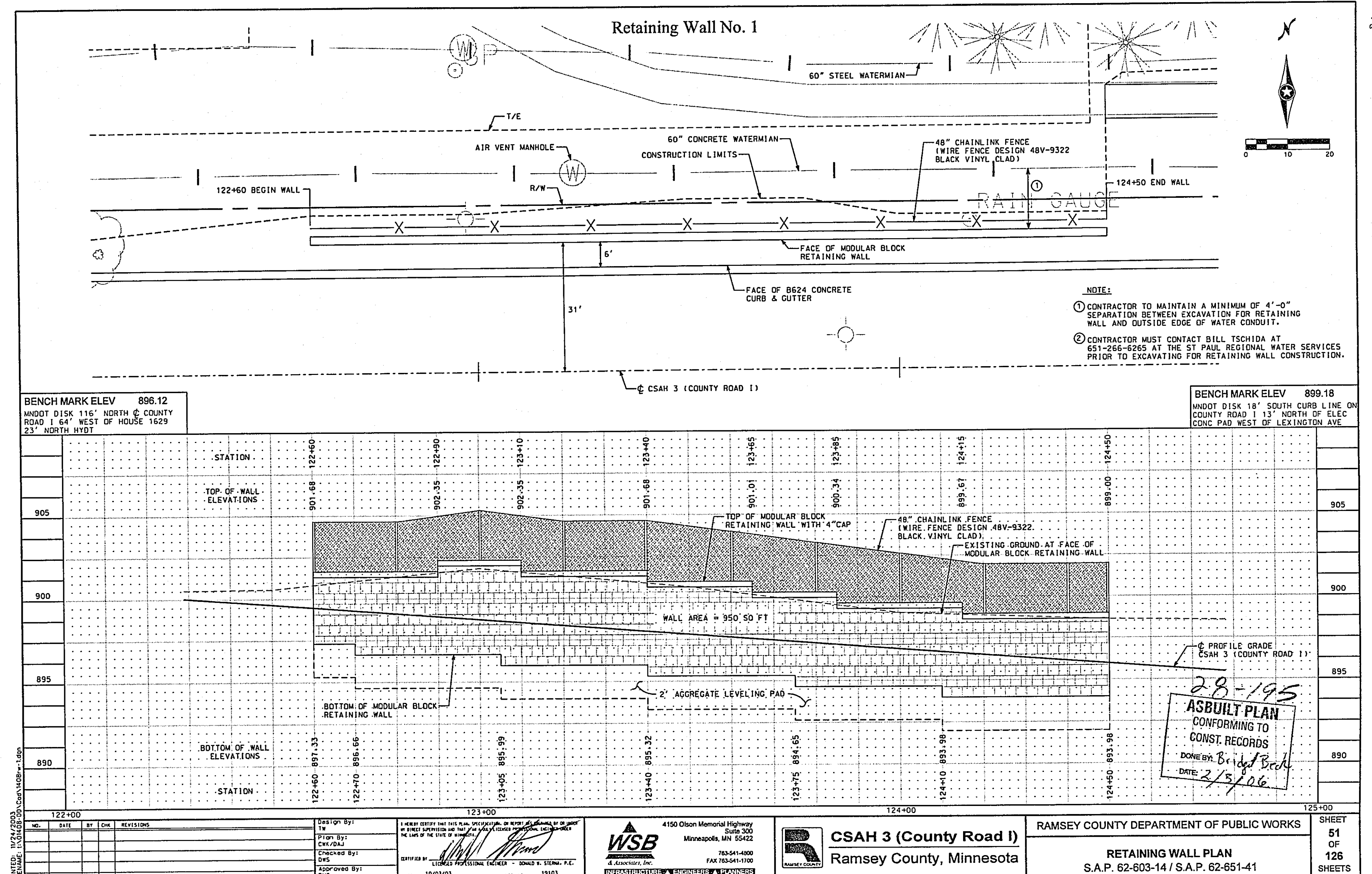
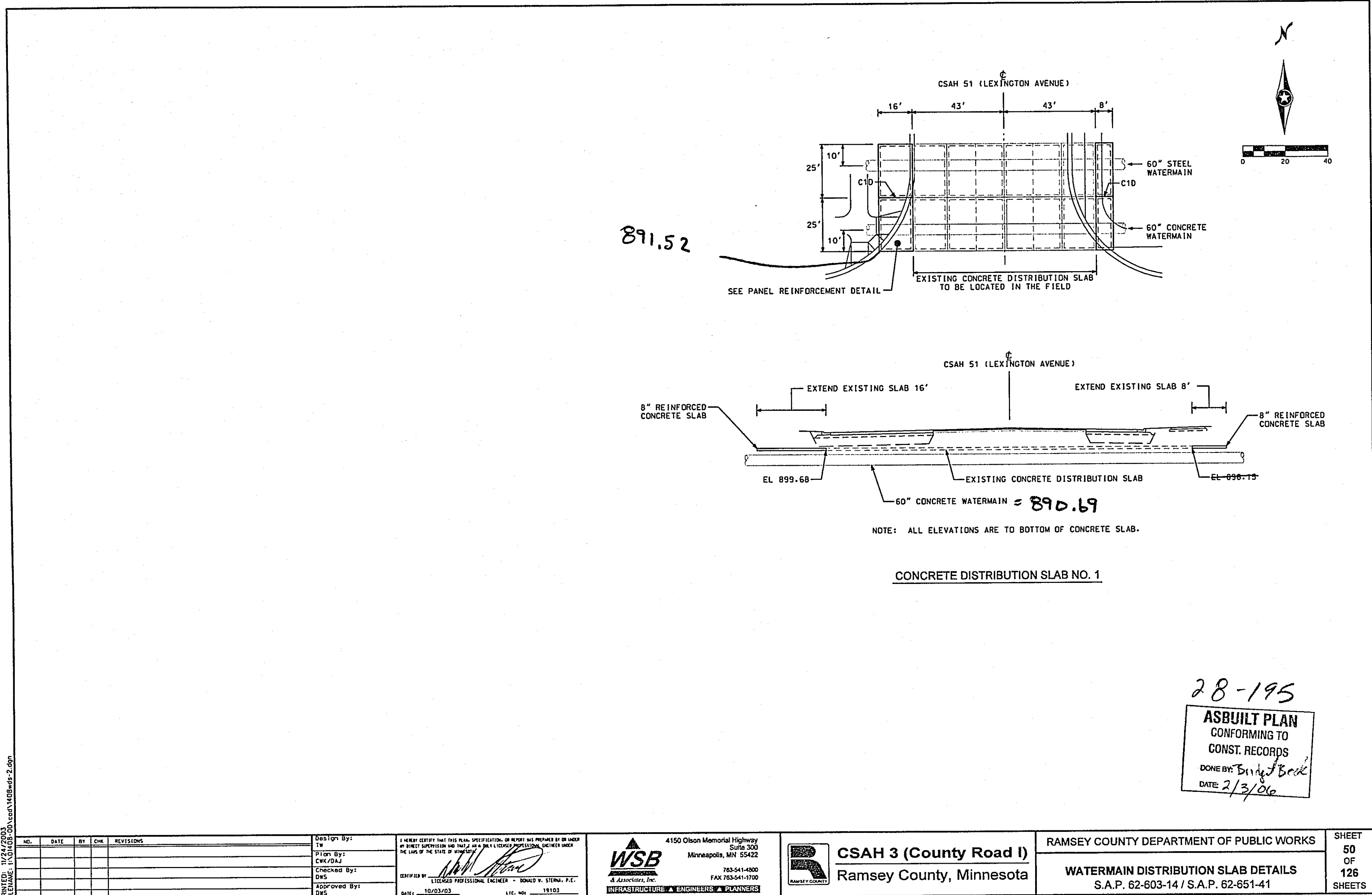
RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS
ALIGNMENT TABULATION
S.A.P. 62-603-14 / S.A.P. 62-651-41

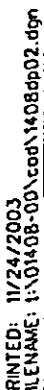
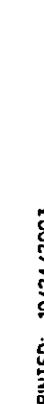
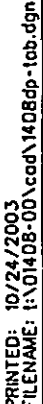
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35
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126
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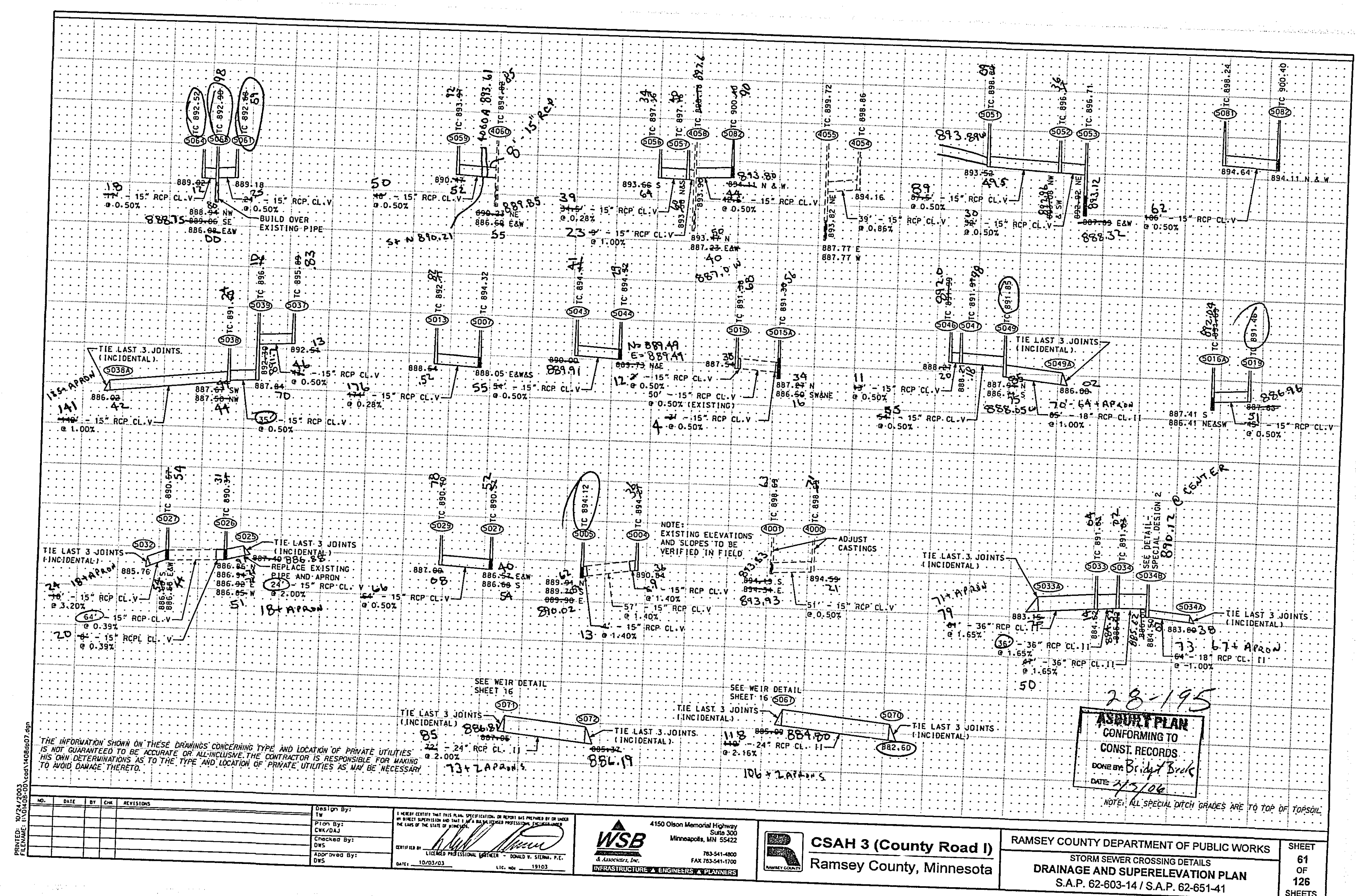
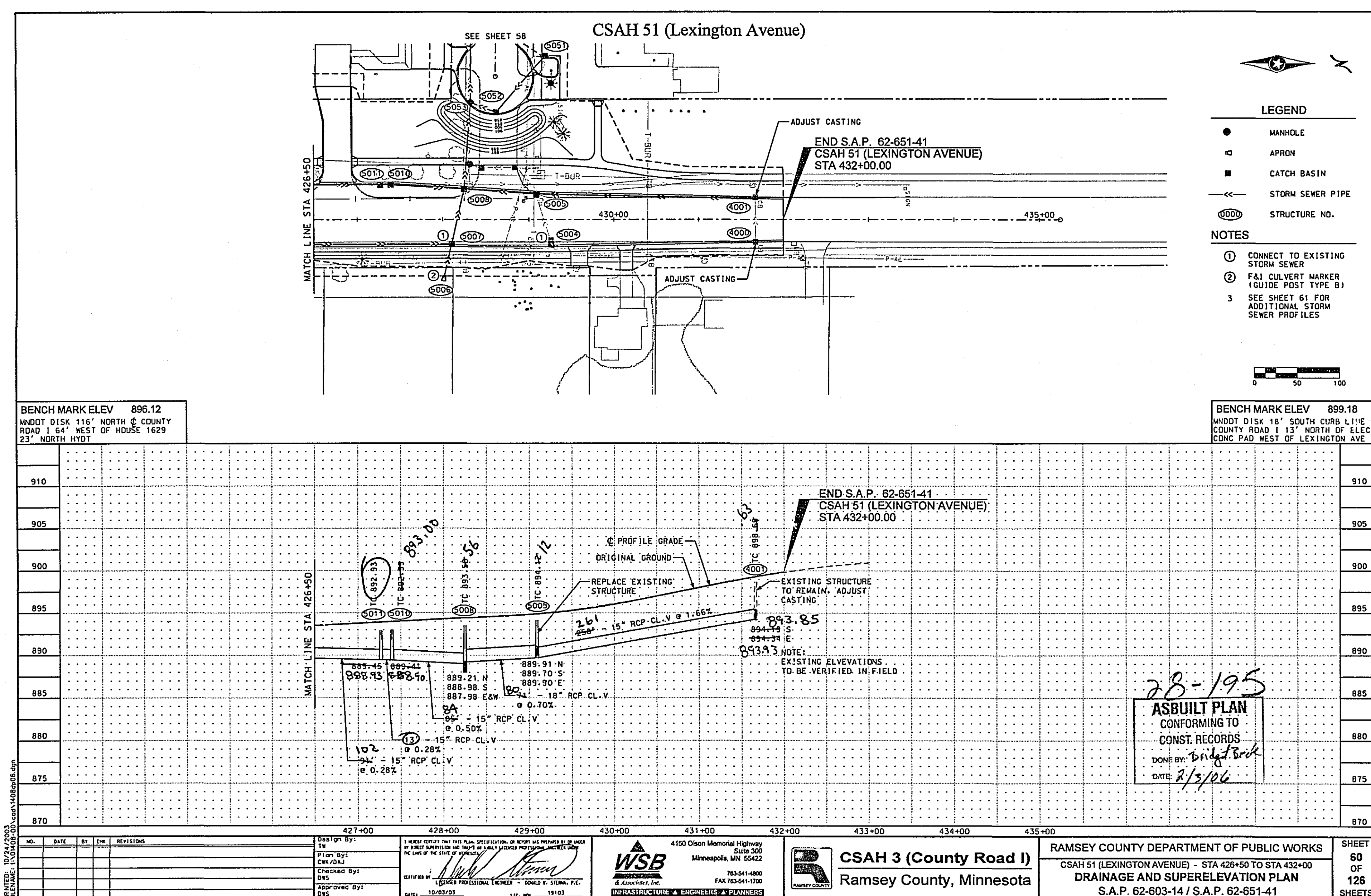
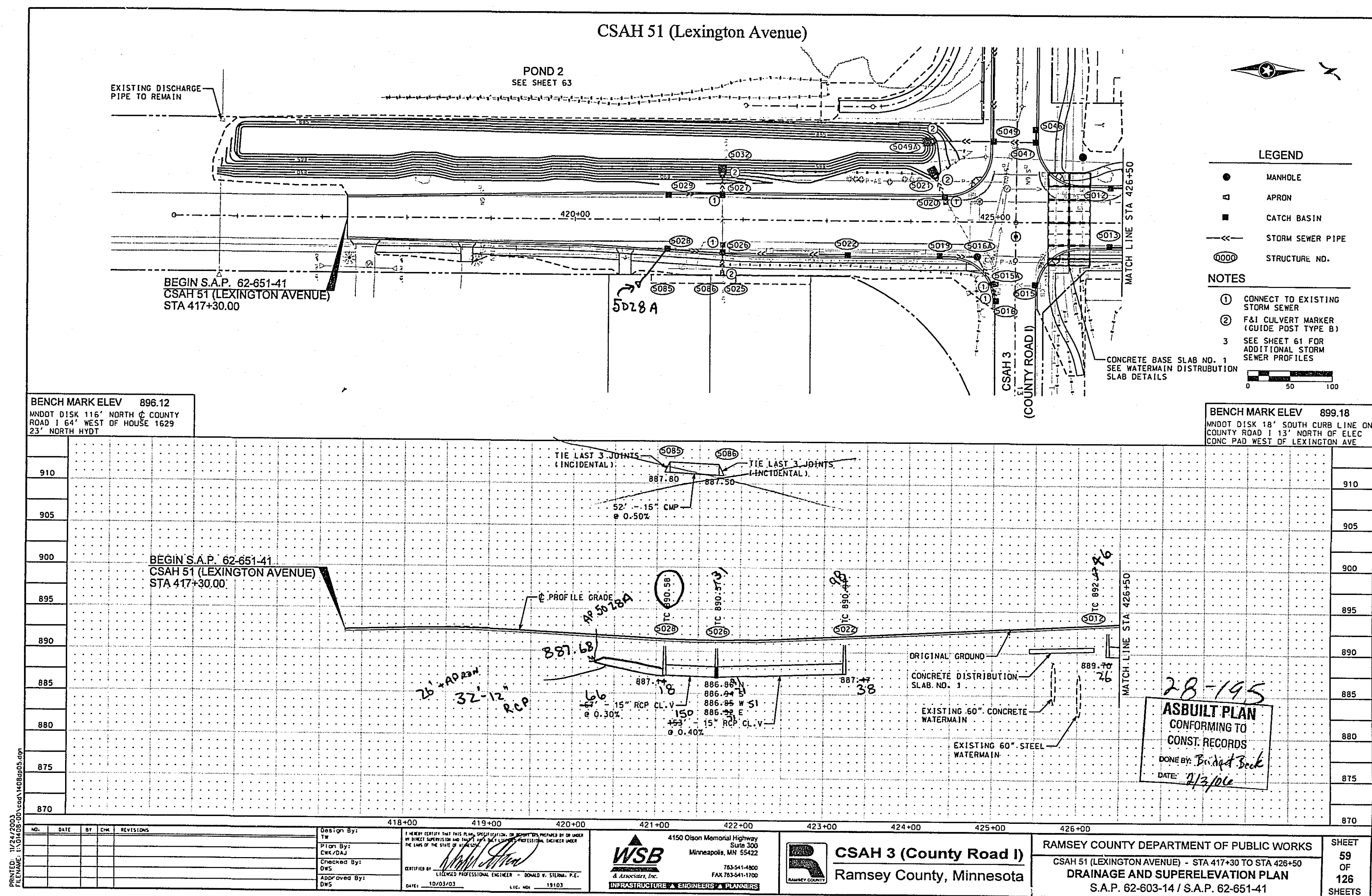
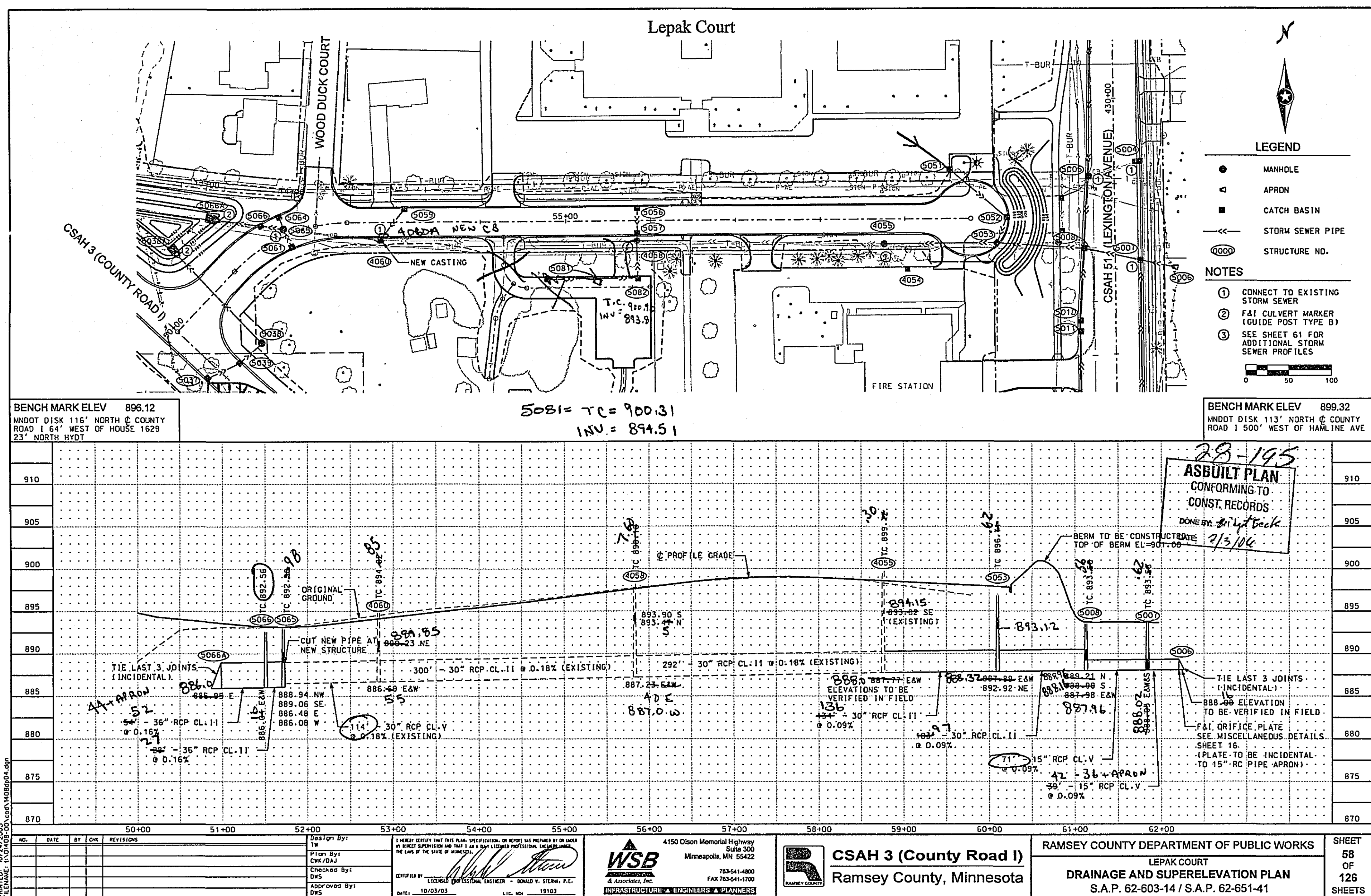


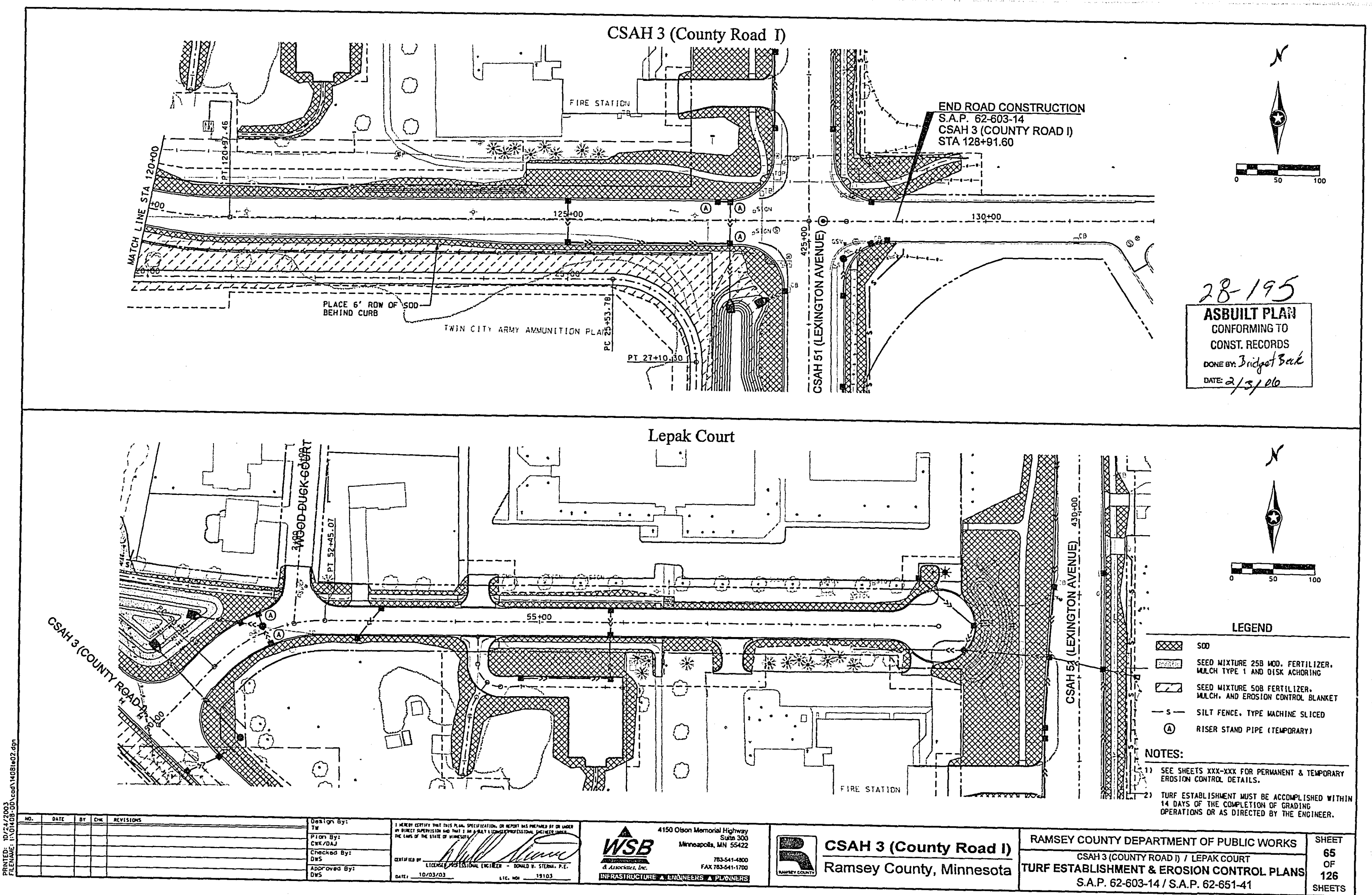
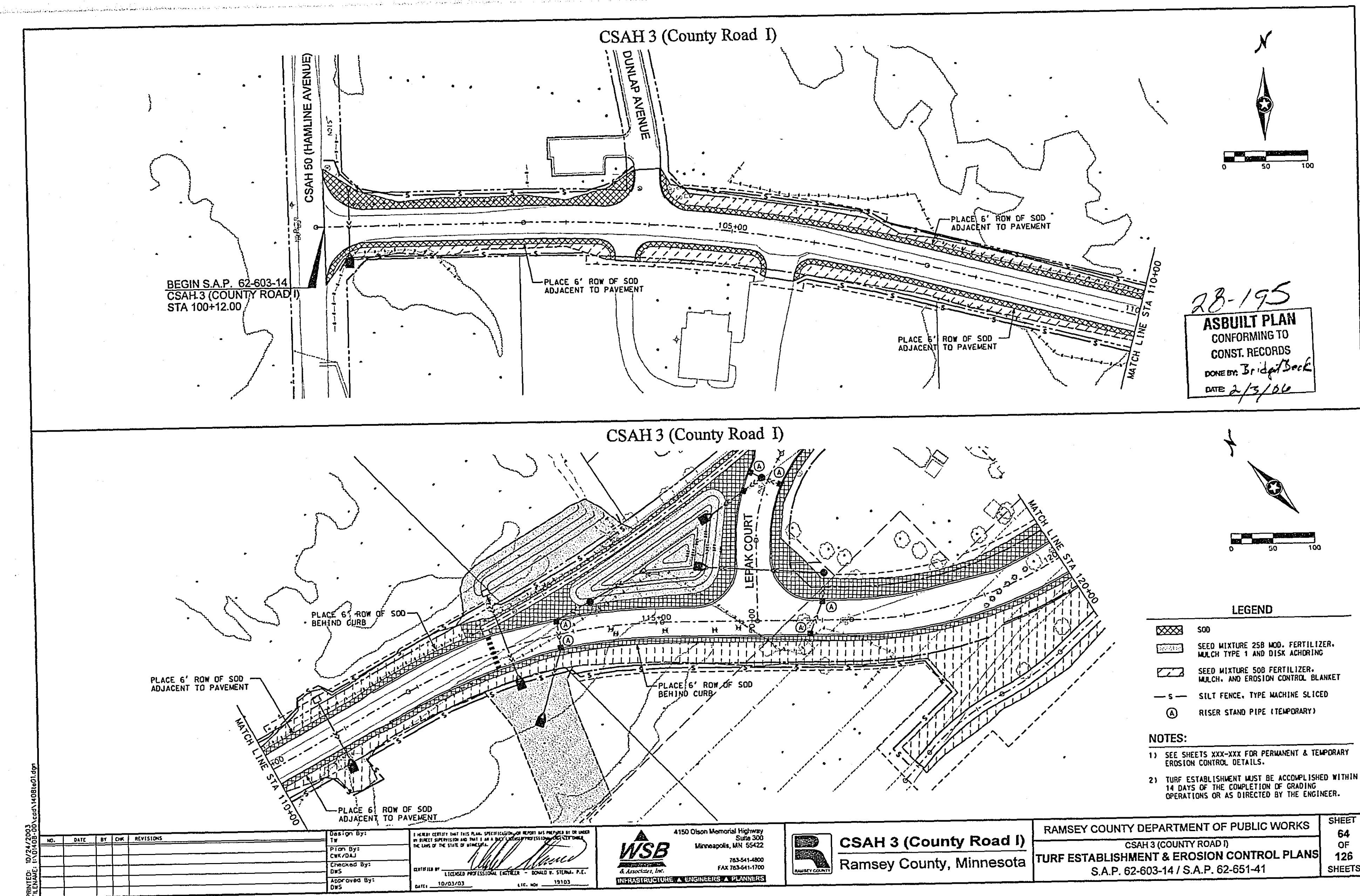
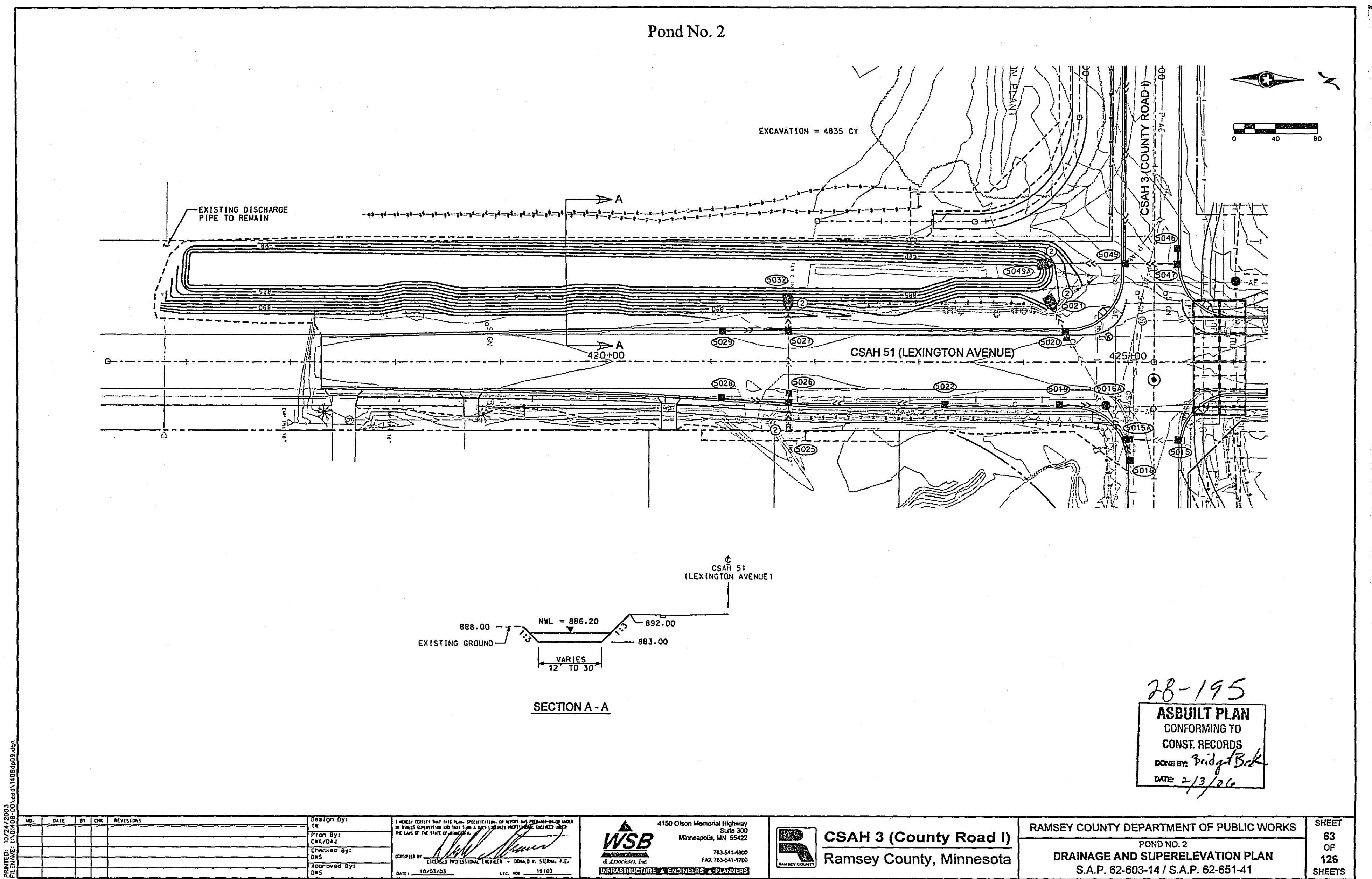
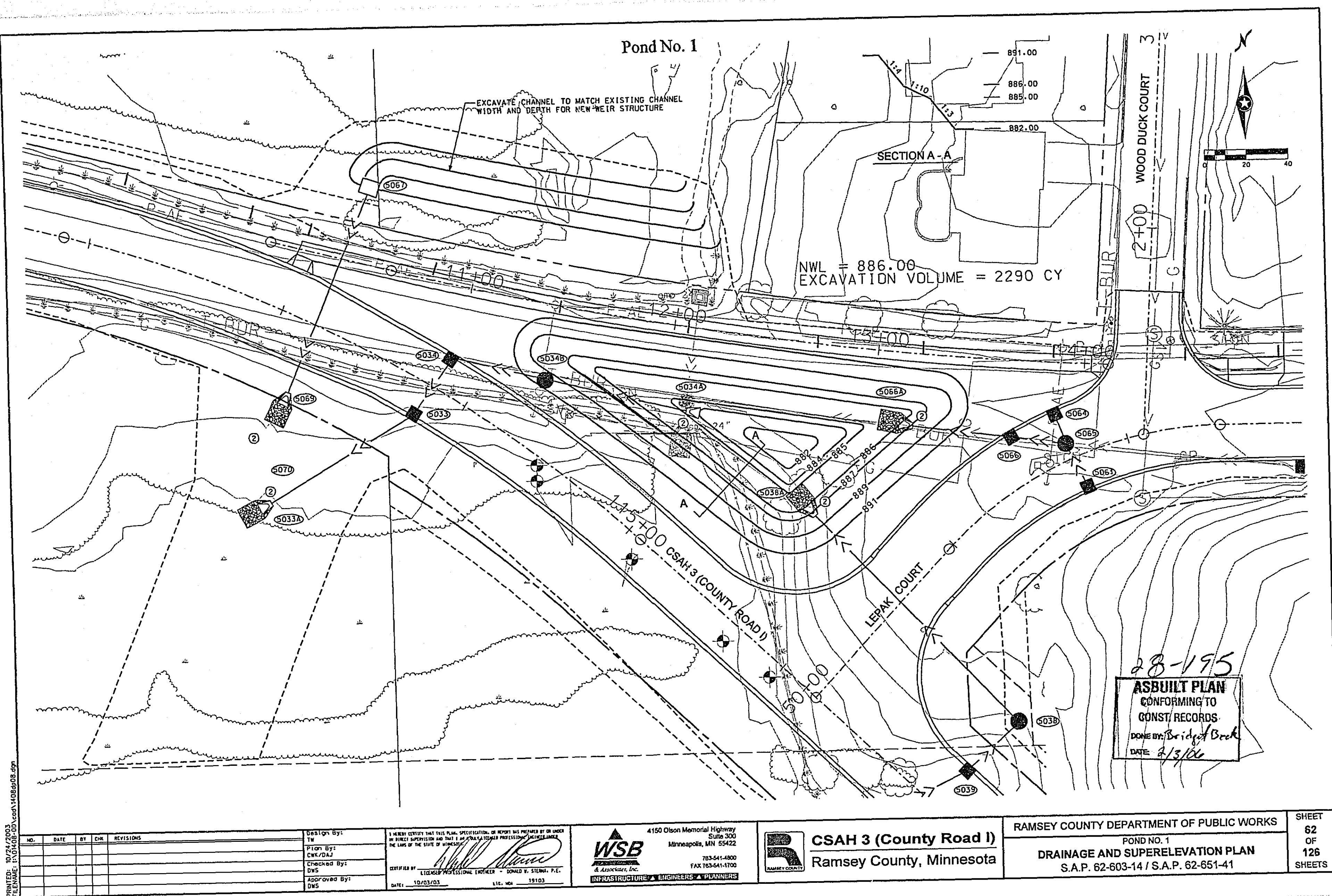


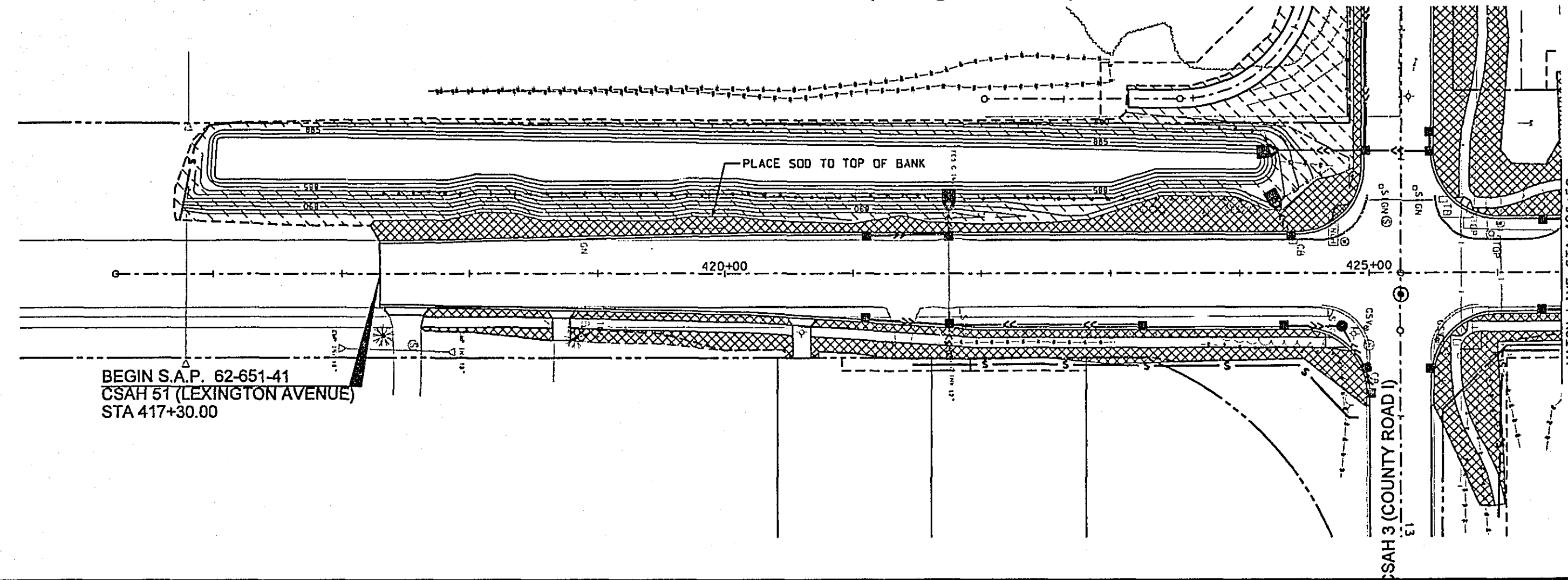












NOTES:

- 1) SEE SHEETS XXX-XXX FOR PERMANENT & TEMPORARY EROSION CONTROL DETAILS.
- 2) TURF ESTABLISHMENT MUST BE ACCOMPLISHED WITHIN 14 DAYS OF THE COMPLETION OF GRADING OPERATIONS OR AS DIRECTED BY THE ENGINEER.

NO.	DATE	BY	CHK	REVISIONS	1- Major revisions that add, delete, or change the scope of work shall be placed on the upper left corner of the drawing. 2- Minor revisions shall be placed on the lower left corner of the drawing. 3- All revisions shall be made in pencil. 4- All revisions shall be made in pencil. 5- All revisions shall be made in pencil. 6- All revisions shall be made in pencil. 7- All revisions shall be made in pencil. 8- All revisions shall be made in pencil. 9- All revisions shall be made in pencil. 10- All revisions shall be made in pencil.	4150 Olson Memorial Highway Suite 300 Minneapolis, MN 55425 763-541-4800 FAX 763-541-7000 www.wsb.com	CSAH 3 (County Road 1) Ramsey County, Minnesota	RAMSEY COUNTY DEPARTMENT OF PUBLIC WORKS CSAH 31 LEXINGTON AVENUE SUITE 200 TURTLE CREEK, MN 55129 TURF ESTABLISHMENT & EROSION CONTROL PLANS S.A.P. 62-603-141/S.A.P. 62-651-41	SHEET 66 OF 228 SHEET 67 OF 228
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ROUND OUT CUT TRANSITION

CONTOURING ROAD CUTS

ROUNDING SHOULDERS AND BACKSLOPES

SHAPING FOR DRAINAGE ALONG THE TOE OF FILL SLOPES

SHAPING AND TOPSOILING INSLOPES

SHAPING ADJACENT TO CURBS WHEN SOD IS PLACED

PLAN VIEW

SODDED DITCH CROSS SECTION

DITCH PROFILE

SODDED DITCH DETAILS

SECTION A-A

SECTION B-B

SODDED FLUME DETAILS

ASBUILT PLAN CONFORMING TO CONST. RECORDS

PERMANENT EROSION CONTROL ALONG ROADWAYS, DITCHES AND FLUMES

STANDARD SHEET NO. 5-297.404

DATE: DECEMBER 19, 1990

DESIGNED BY: LINDA K. HARRIS, P.E.

CHECKED BY: JAMES R. STEIN, P.E.

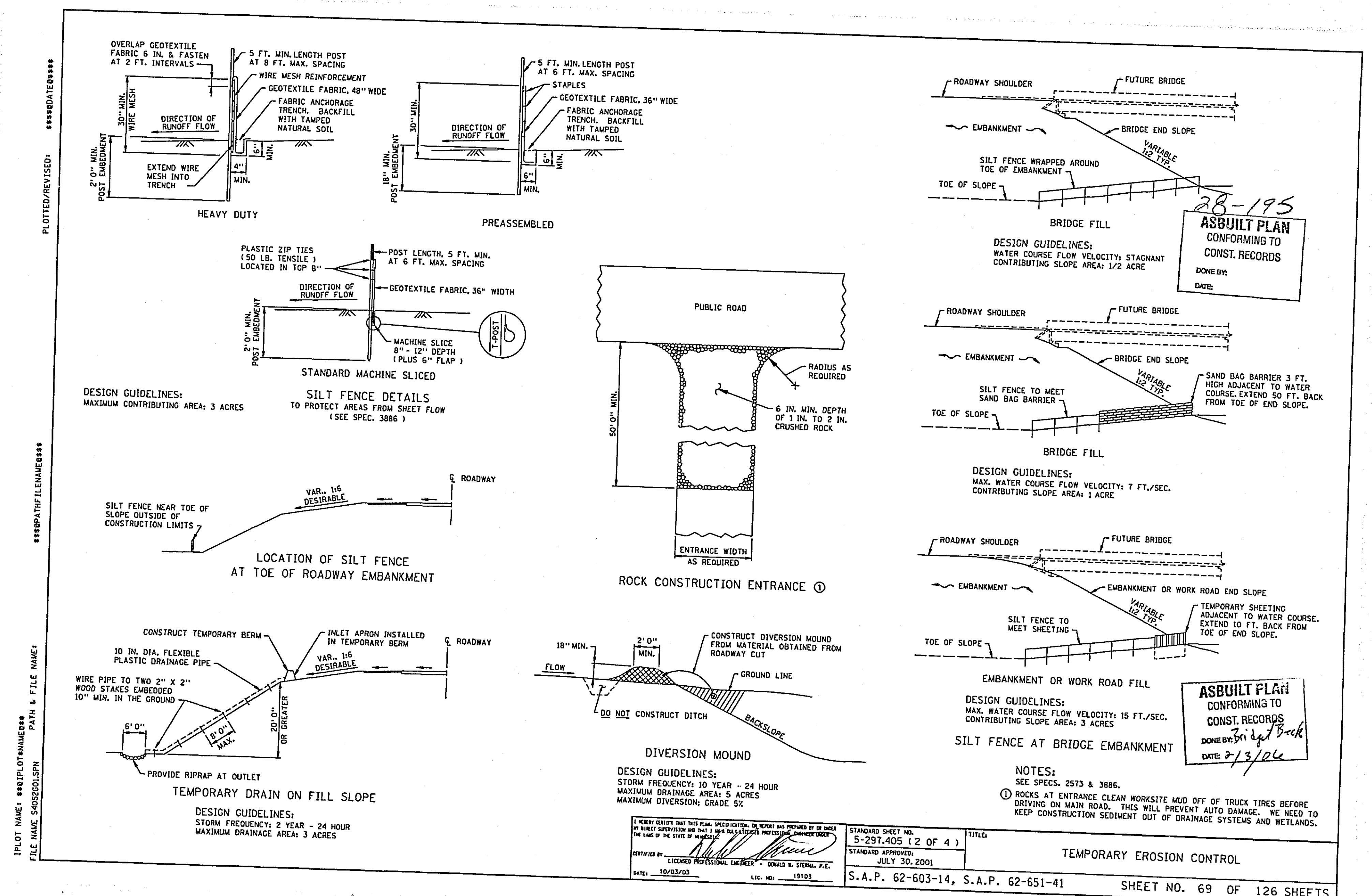
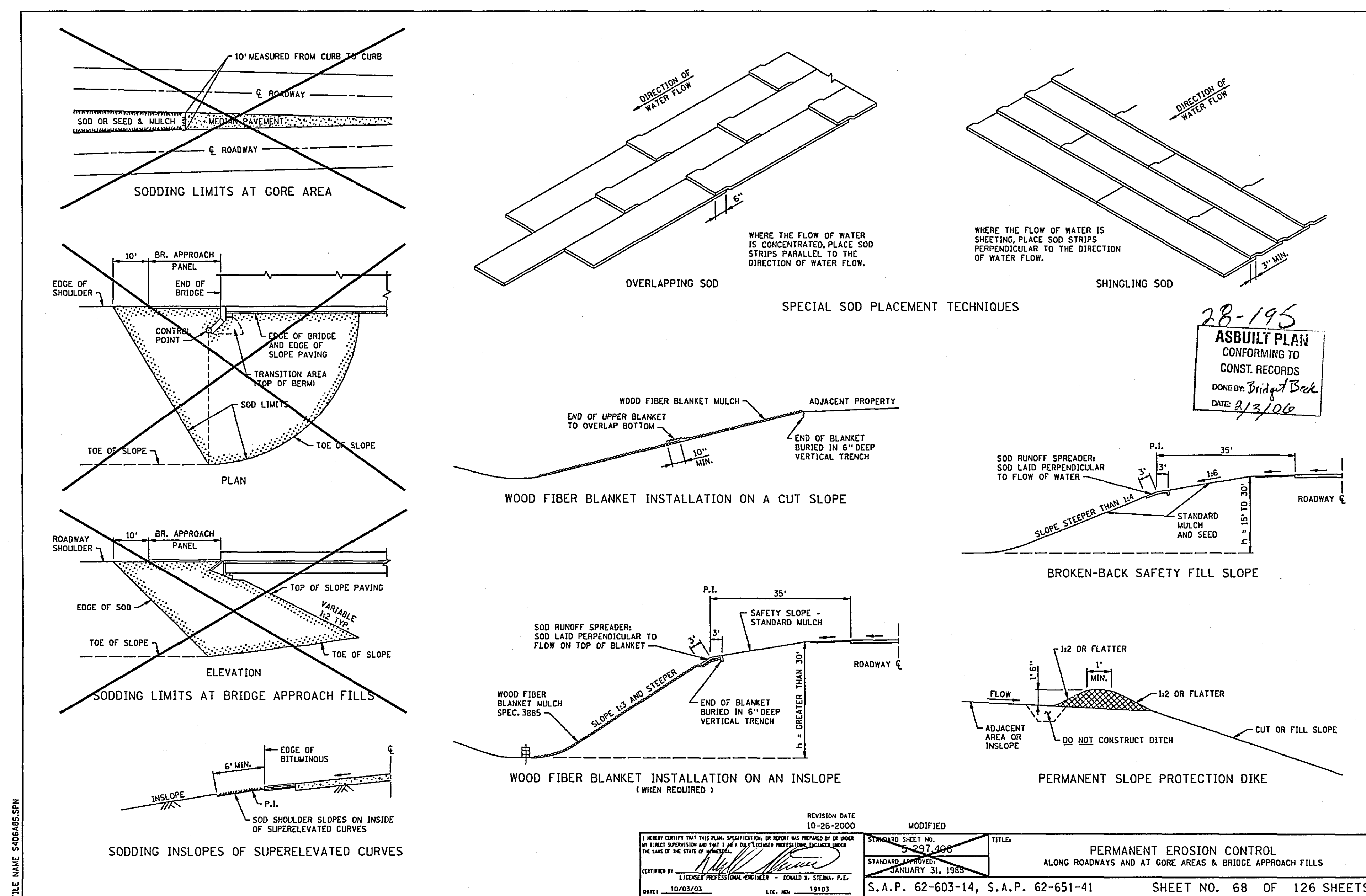
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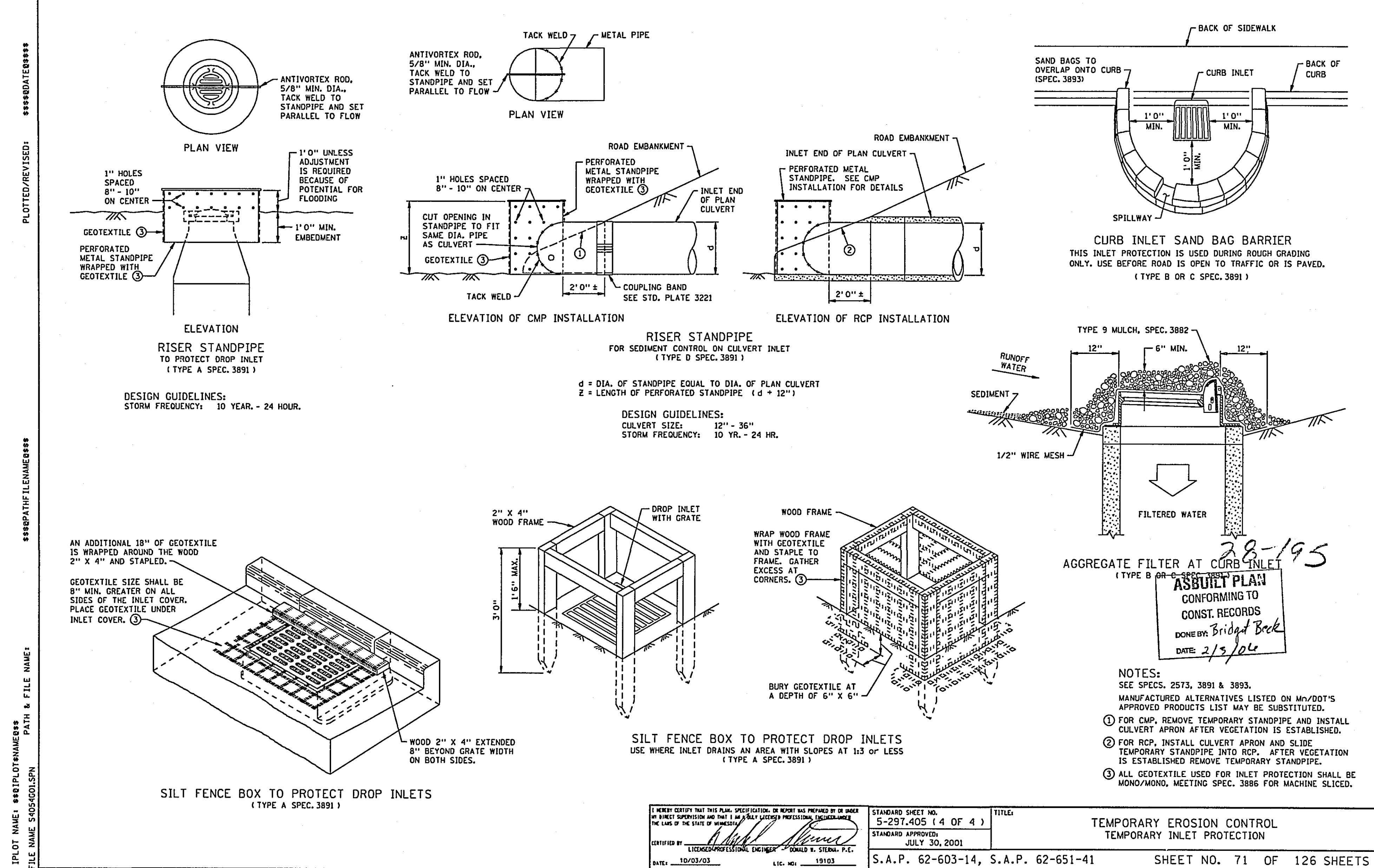
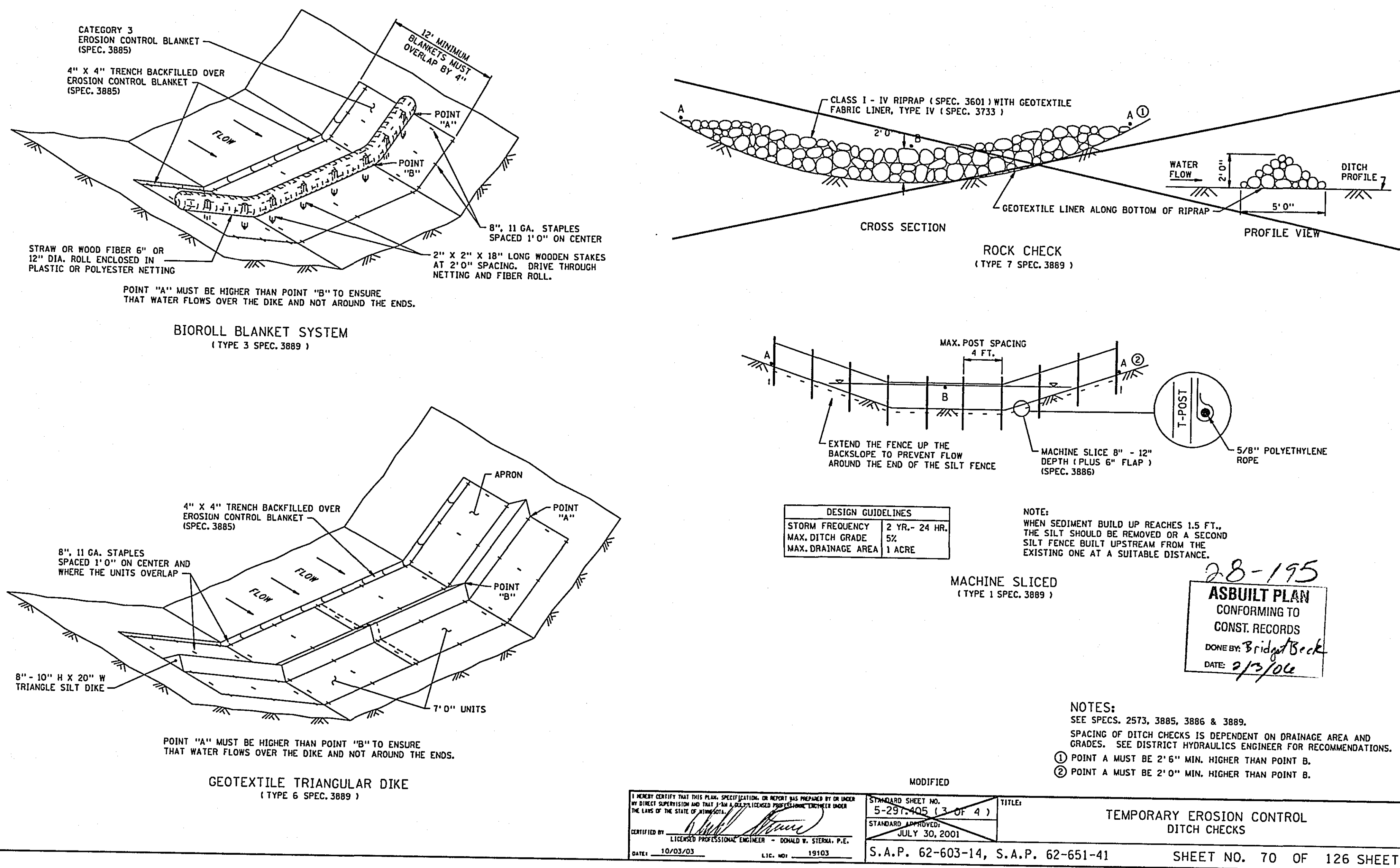
LIC. NO. 19103

REVISION DATE: 10-26-2000

NOTES:

- SEE SPEC. 257.3 FOR ADDITIONAL INFORMATION.
- FOR ROUNDING, SEE ROAD DESIGN MANUAL.
- CONSTRUCT TAPER AS DIRECTED BY THE ENGINEER.





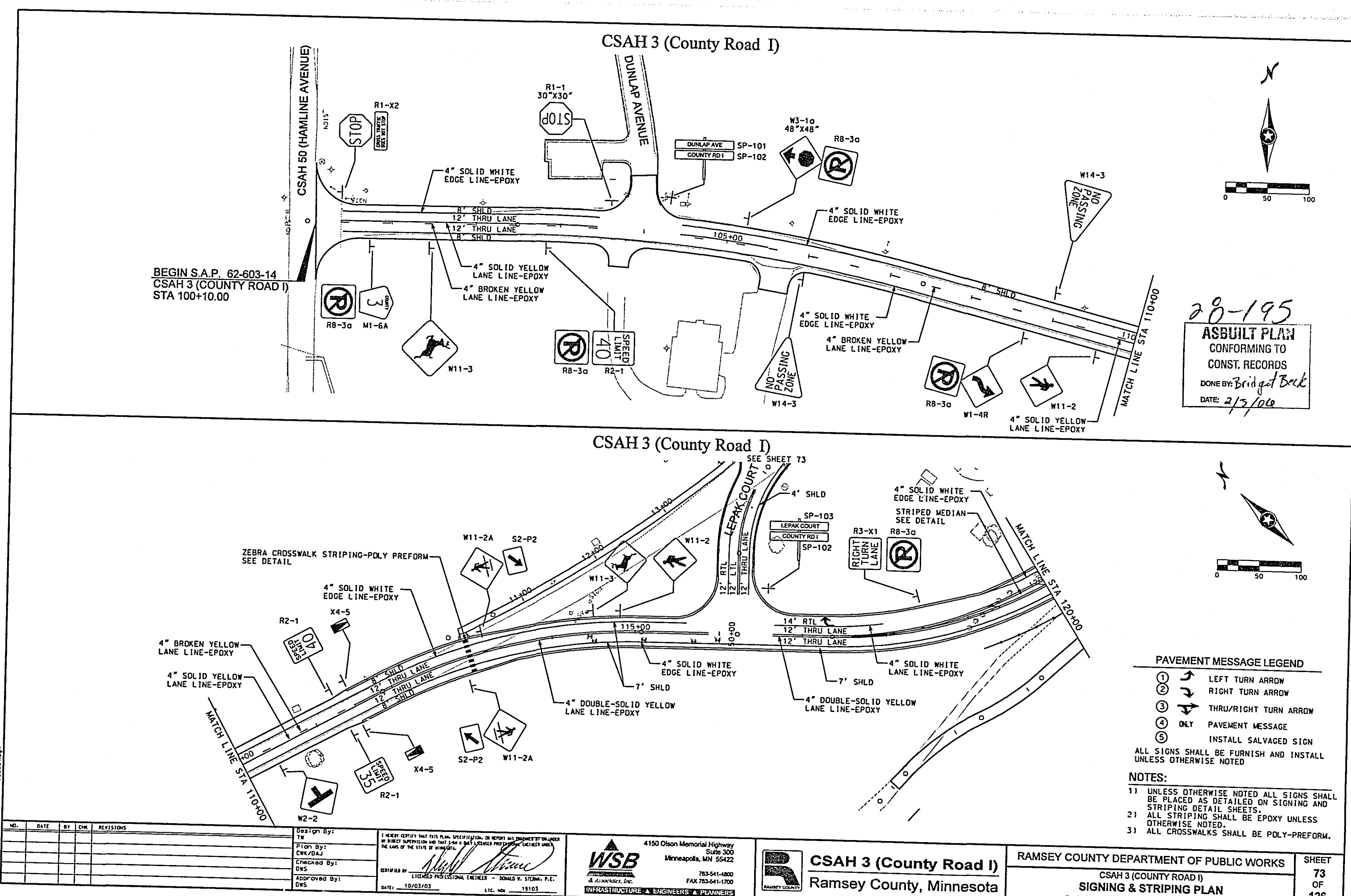
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WI-6A	3		2			2U	24X24 4.00				8.00	CSAH ST ROUTE MARKER
R1-1						2U	30X30 2.25		18.75	9.25		STOP
R1-2						2U	36X36 9.00			5.00		STOP
R1-2X						2U	30X24 3.00			5.00		CROSS WFFIC DOES NOT STOP
R2-1	1					2U	24X30 5.00		5.00	10.00		SPEED LIMIT 30
R2-1						2U	24X30 5.00			10.00		SPEED LIMIT 35
R2-1						2U	24X30 5.00			10.00		SPEED LIMIT 40
R2-1						2U	24X30 5.00			10.00		SPEED LIMIT 45
R1-30A	1					2U	36X30 5.50	7.50			10.00	LANE INFORMATION (LEFT, LEFT)
R3-30A		1				2U	34X30 11.25			11.25		LANE DESIGNATION (LEFT, THRU, RIGHT)
R3-30A			2			2U	36X30 7.75				27.50	LANE INFORMATION (LEFT, THRU, THRU, RIGHT)
R3-30AD		1				2U	36X30 7.50			7.50		LANE INFORMATION (LEFT, THRU/RIGHT)
R3-31						2U	30X30 6.25			9.25		RIGHT
R7-8A	2					2U	12X18 1.50	3.00				HANDICAP PARKING
R7-8B						2U	12X6 0.50	1.00				WAY ACCESSIBLE
R7-8C	2	15				2U	18X18 2.25	3.25	23.75	18.00		NO PARKING
S1-1						2U	30 3.00	6.25	12.00			SCHOOL (BLACK ON FLUORESCENT YELLOW-GREEN)
S2-2	2					2U	24X14 4.00	5.00	6.00			DOWN ARROW (BLACK ON FLUORESCENT YELLOW-GREEN)
W11-2						2U	10X30 6.25		12.50			ADVANCED PEDESTRIAN CROSSING (BLACK ON FLUORESCENT YELLOW-GREEN)
W11-2A						2U	20X20 2.50		12.50			PEDESTRIAN CROSSING (BLACK ON FLUORESCENT YELLOW-GREEN)
W11-3		2	2			2U	36X36 9.00		18.00	18.00		OBVERSE CROSSING
W1-4						2U	36X48 15.00		18.00			NO PASSING ZONE
W1-4R						2U	30X30 6.25		12.50			REVERSE CURVE
W1-4R						2U	30X30 6.25		12.50			SLOW AHEAD 90 DEGREE
W3-1A	1					2U	48X48 16.00		16.00			STOP AHEAD
W3-1A						2U	36X36 9.00	3.00	1.00			STOP AHEAD
W4-5	2					2U	6X12 0.50					SNOW PLOW MARKER
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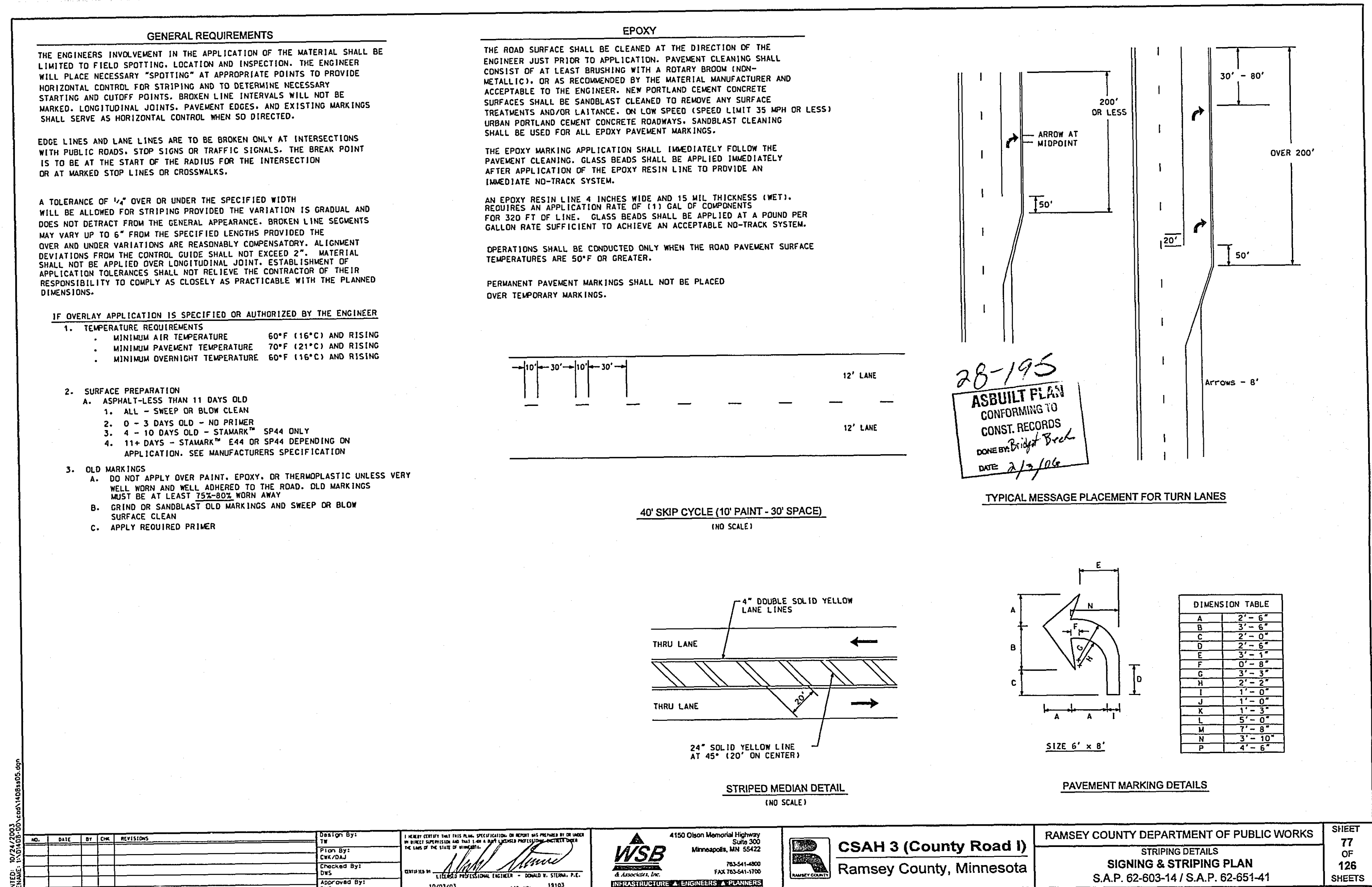
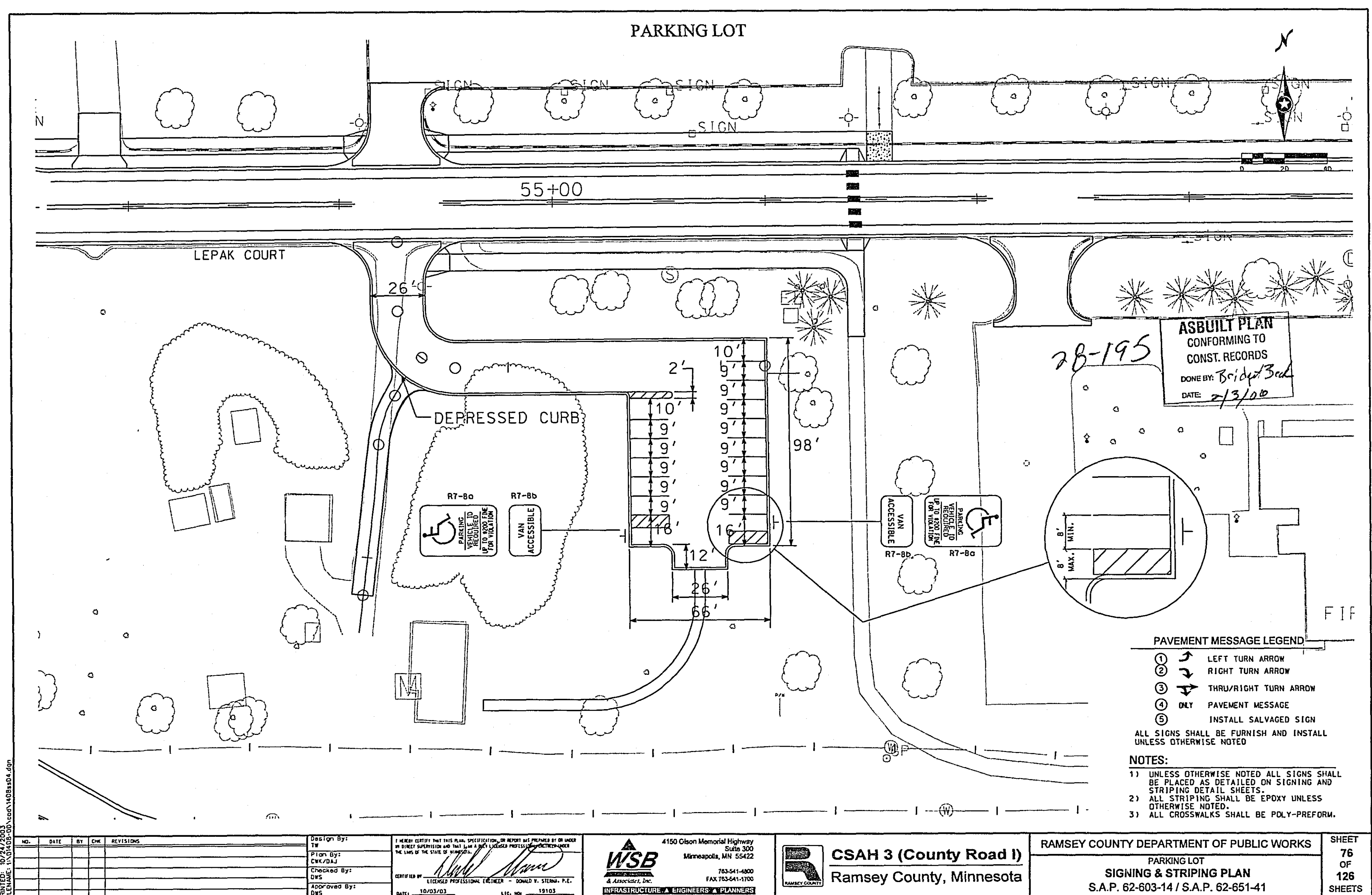
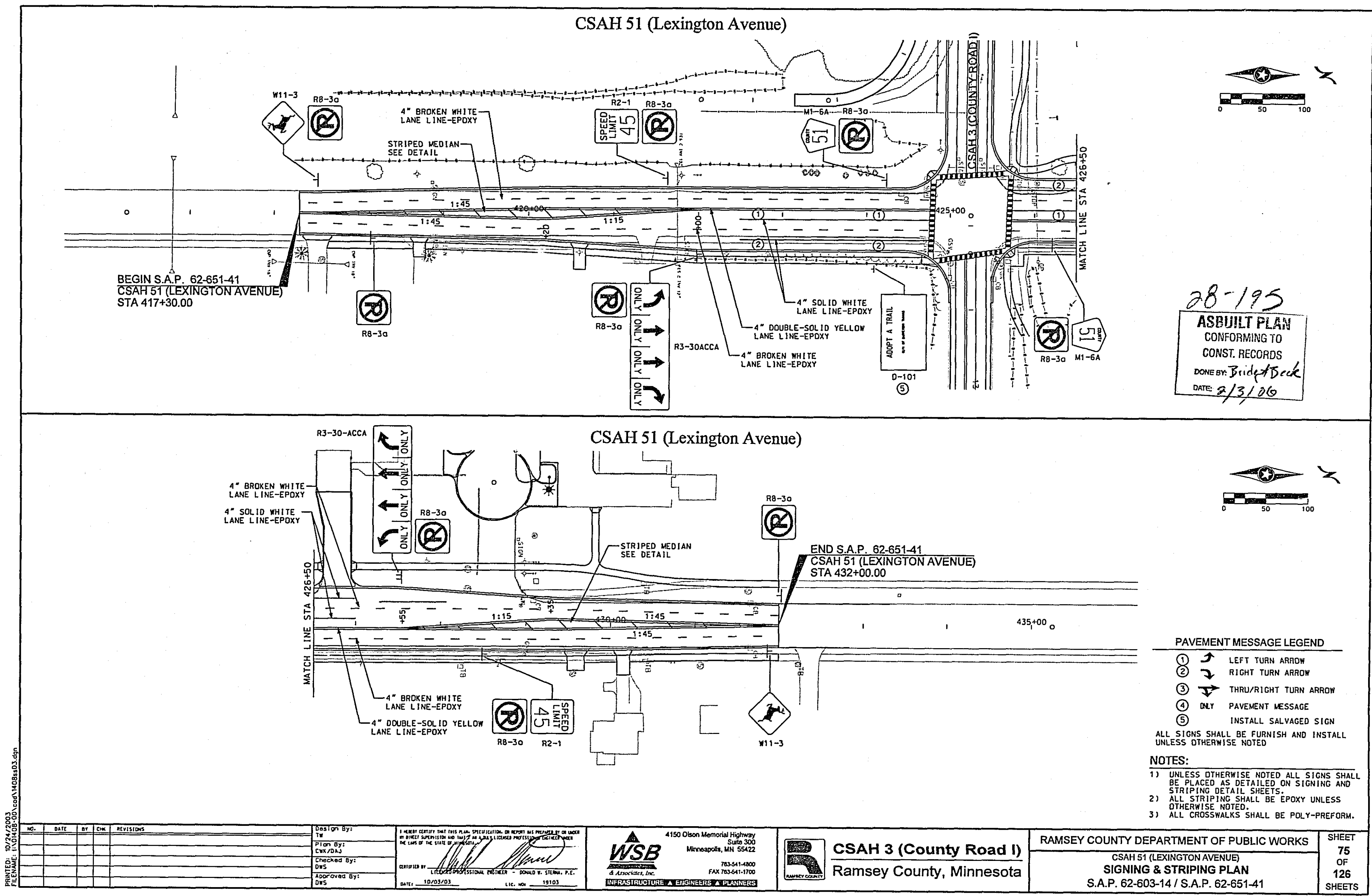
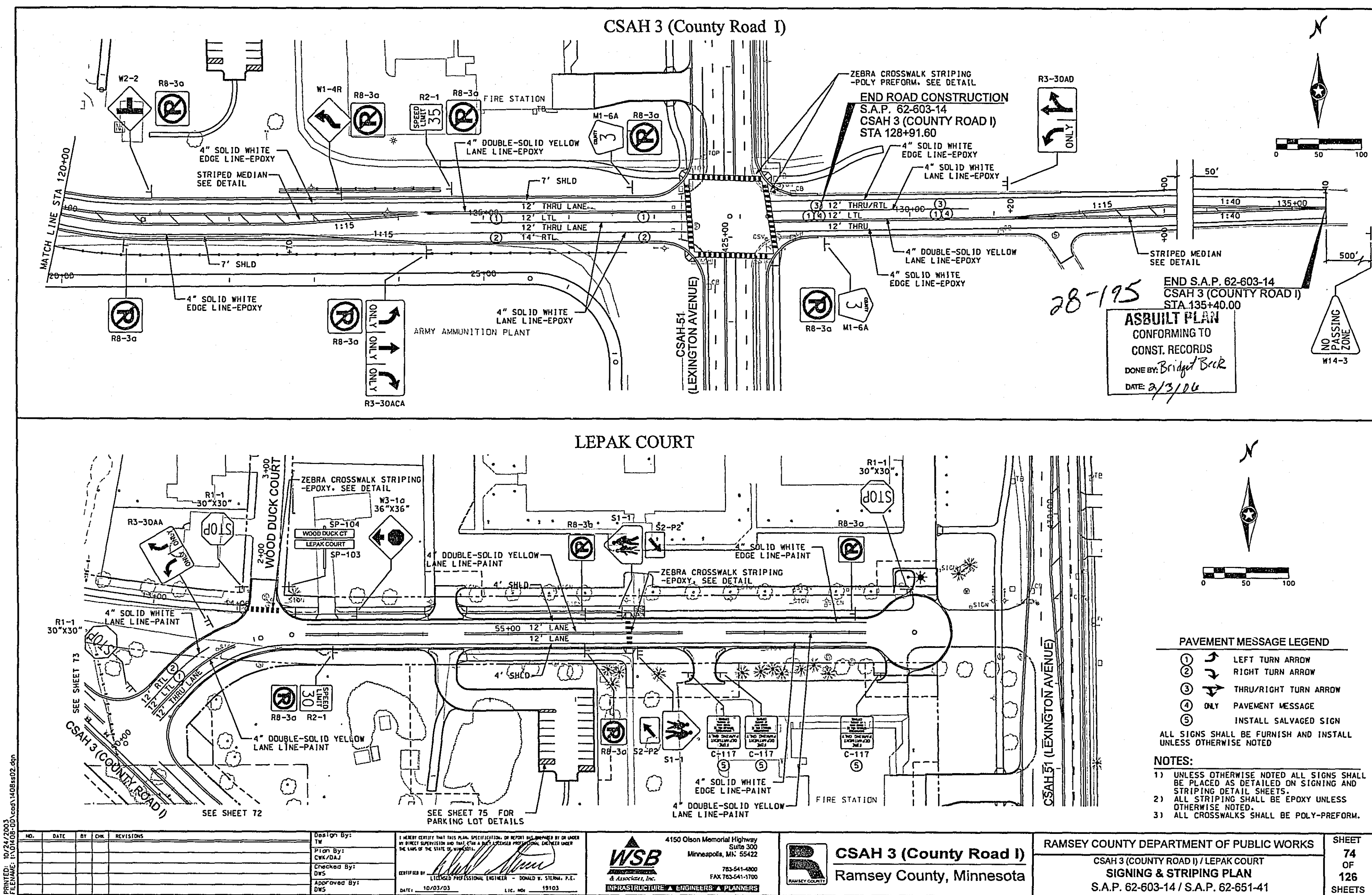
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	EACH	EACH	1 FT.		
SP-101	1		12	DUNLAP AVE	
SP-102	1	1	12	COUNTY RD. J	
SP-103		2	12	LEPAX COURT	
SP-104		1	12	WOOD DUCK CT	
TOTAL	2	4			

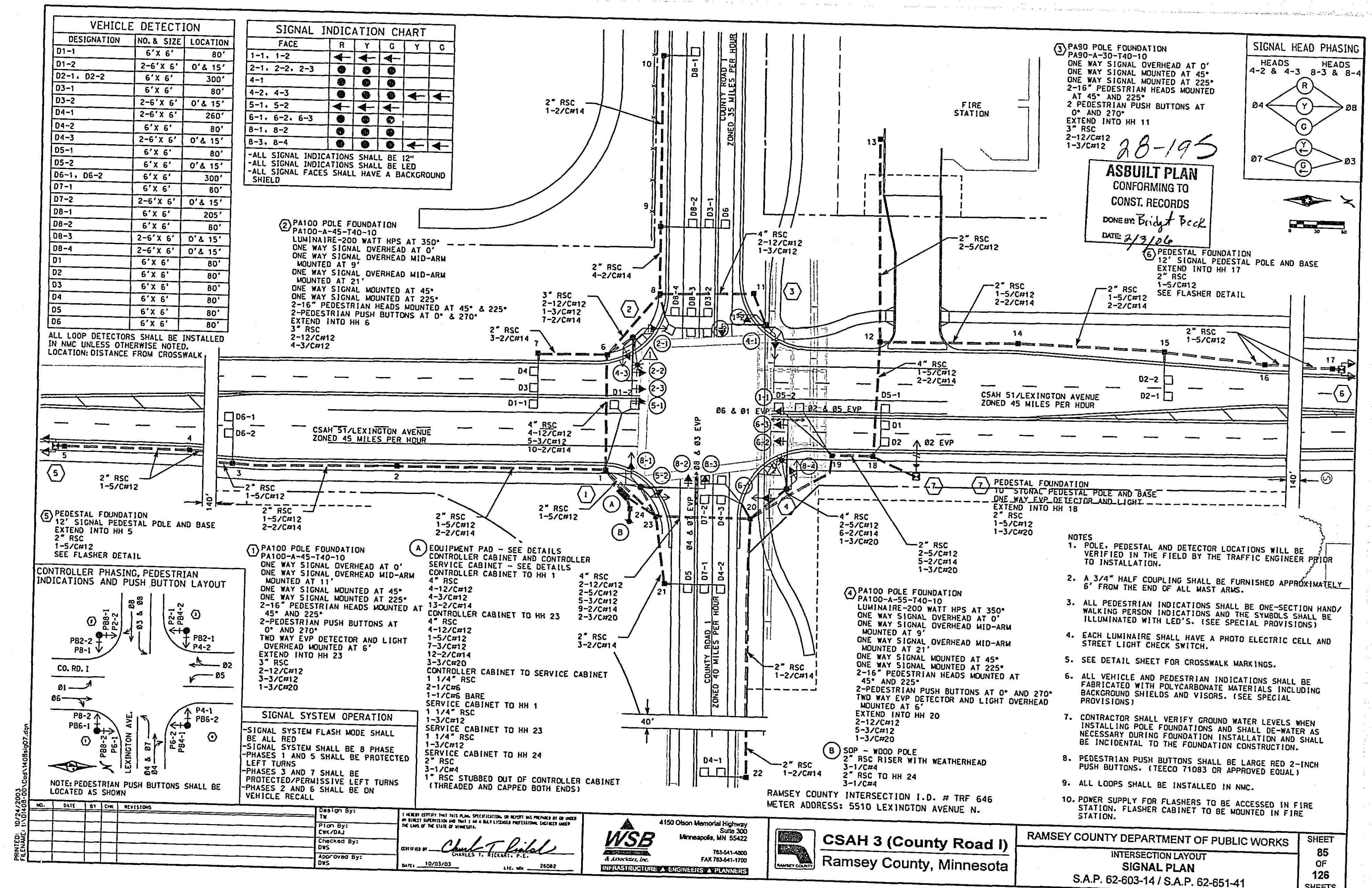
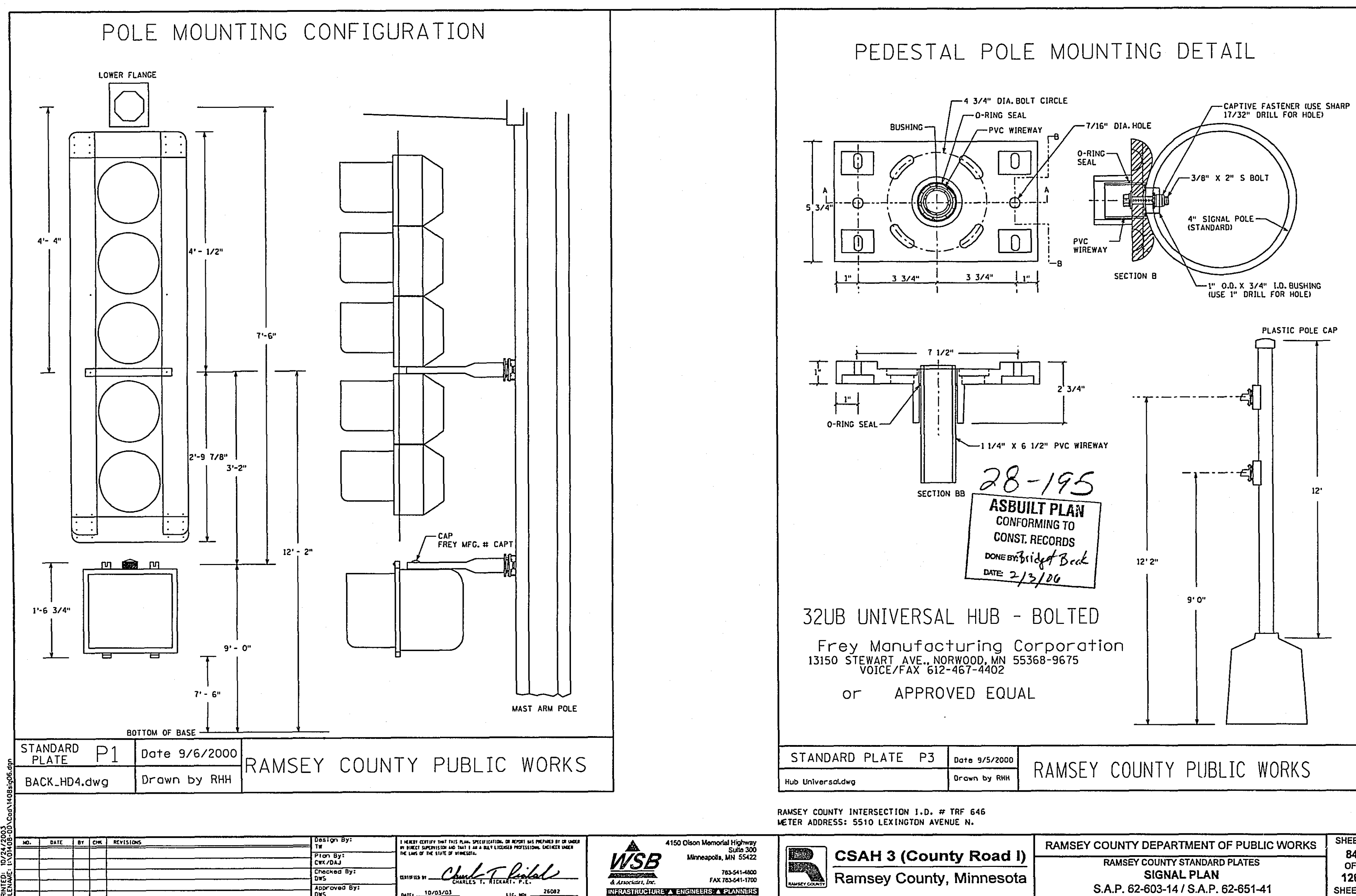
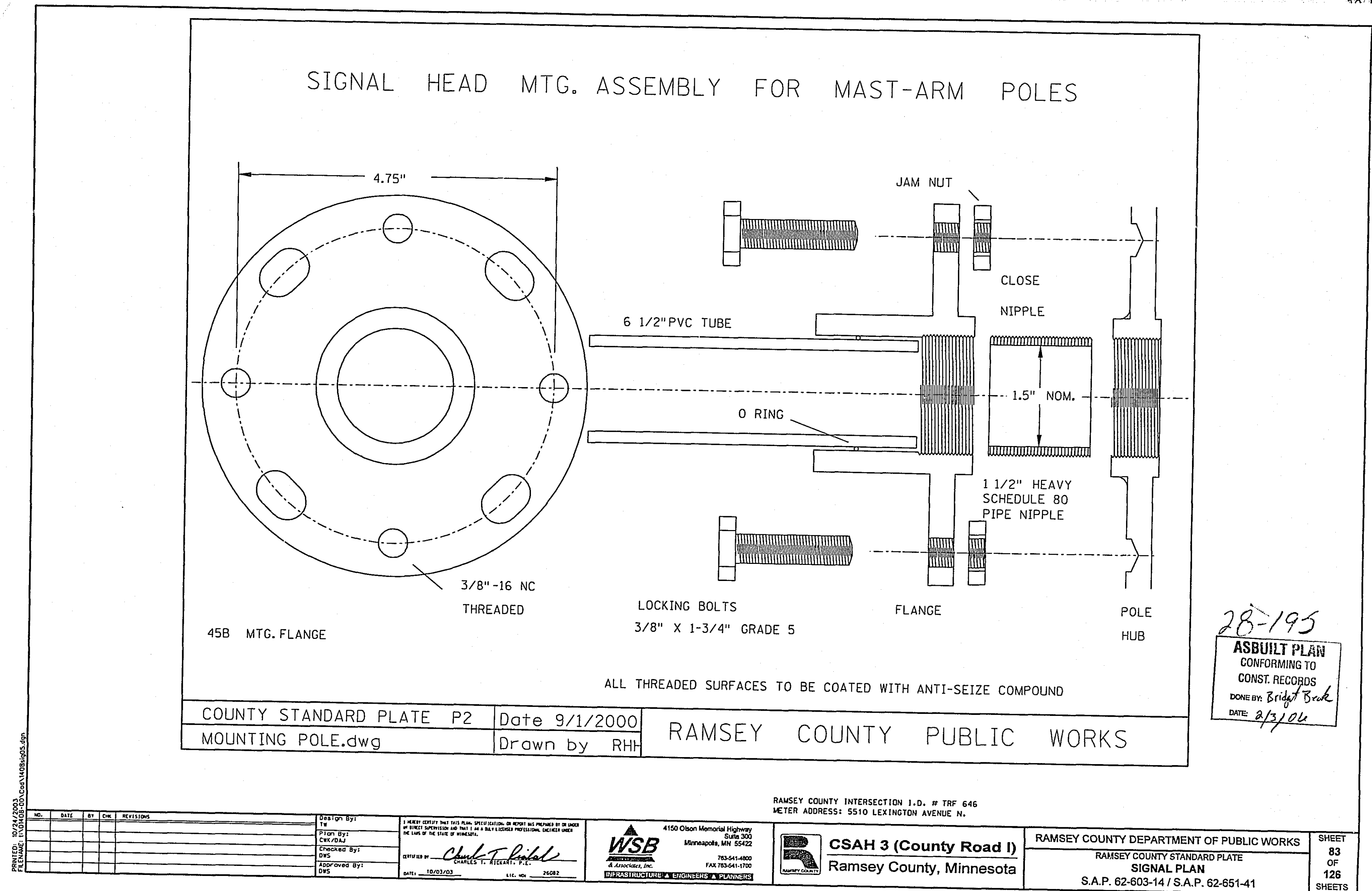
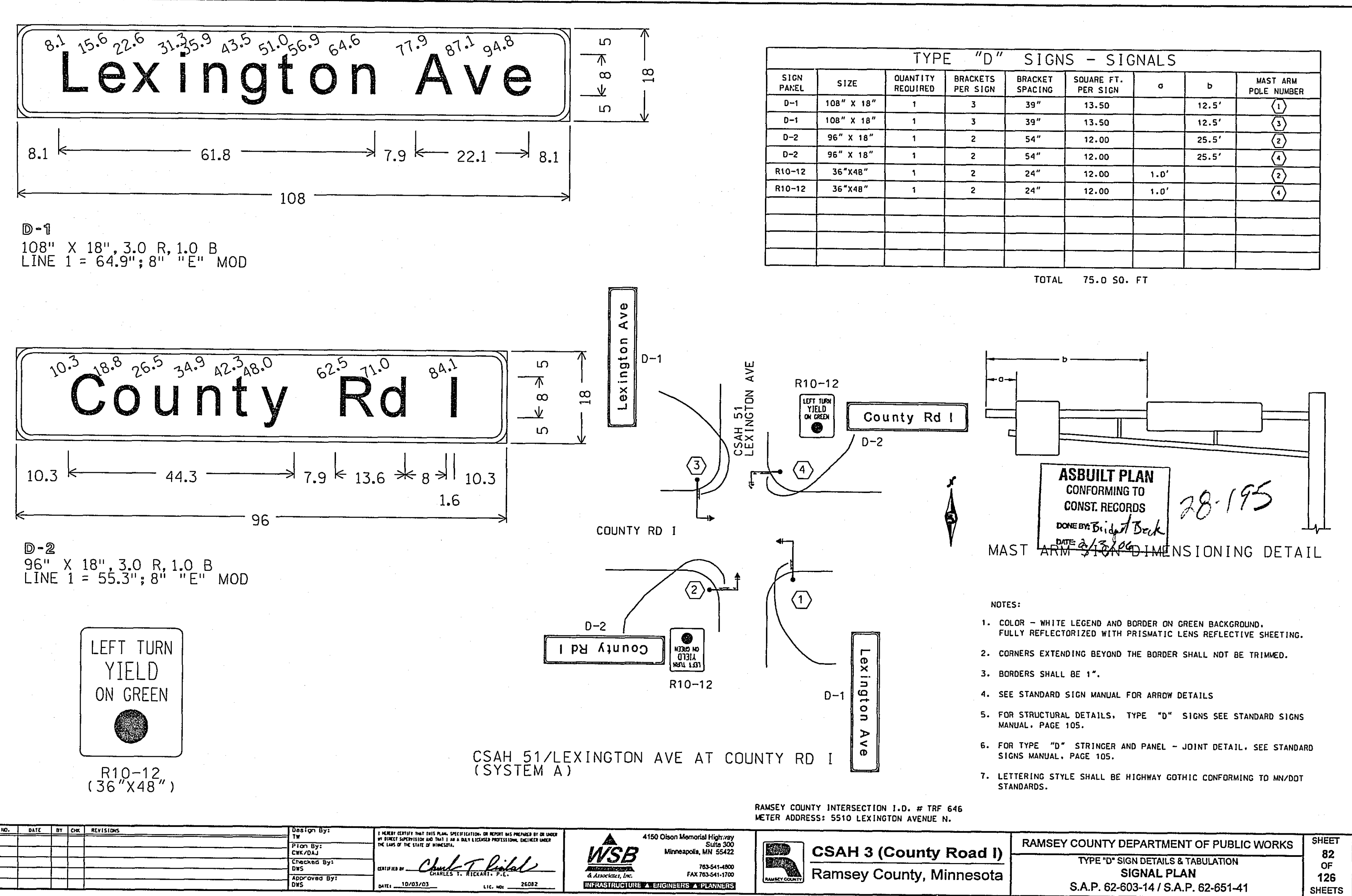
TYPE "C" & "D" SIGNS (SALVAGE & INSTALL)										U
SIGN NO.	SAP 62-003-14		SAP 62-651-41		POSTS		WTF H (F1) (1)	PANEL LEGEND		
	EACH	EACH	41	TYPE	LEN. (F1)	QUANT				
B-101			1	2U	1	7		ADOPT A TRAIL		
C-110	3			2U		14	7	FIRE DEPARTMENT PARKING ONLY		
TOTAL	3		1							

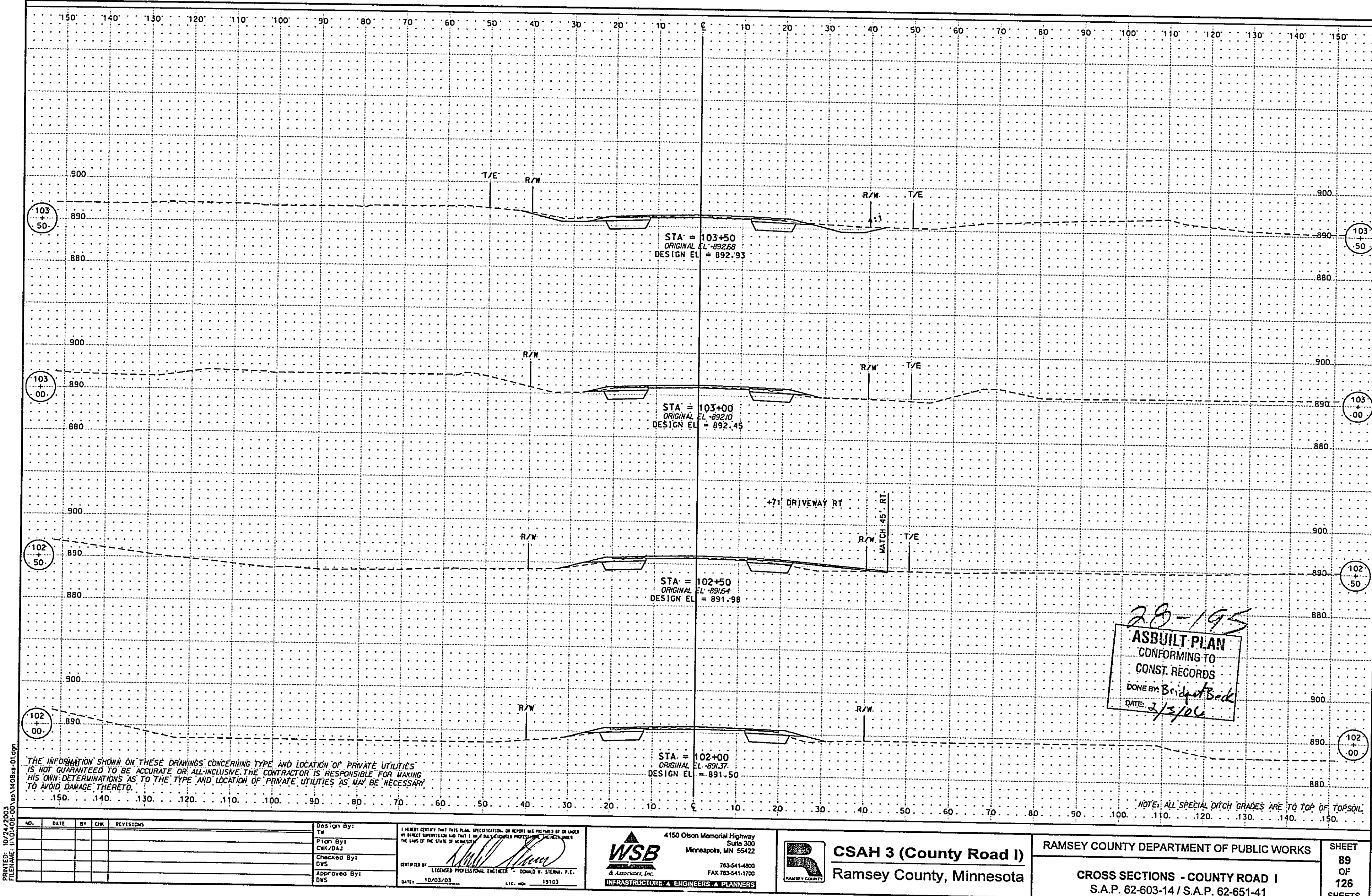
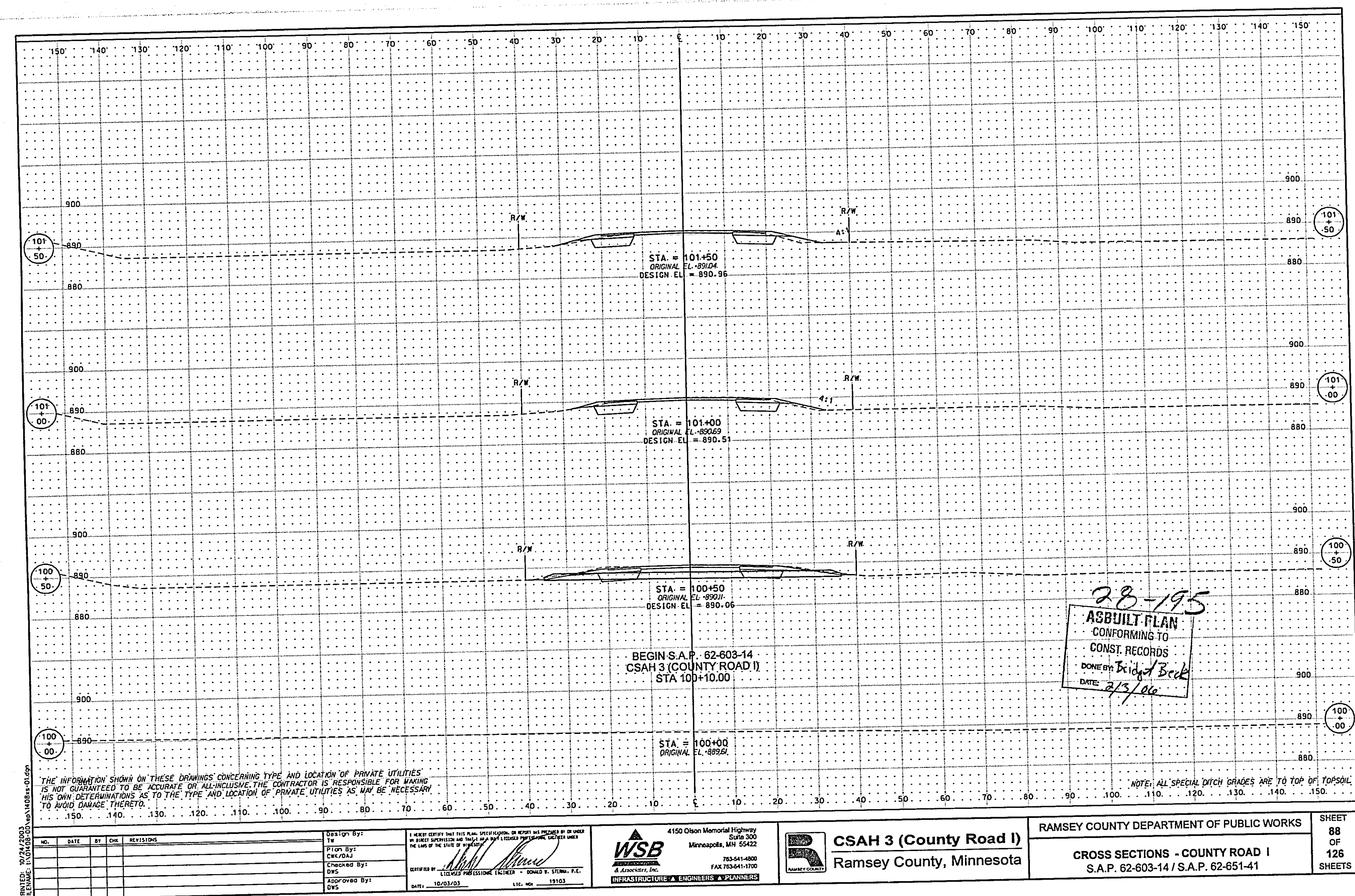
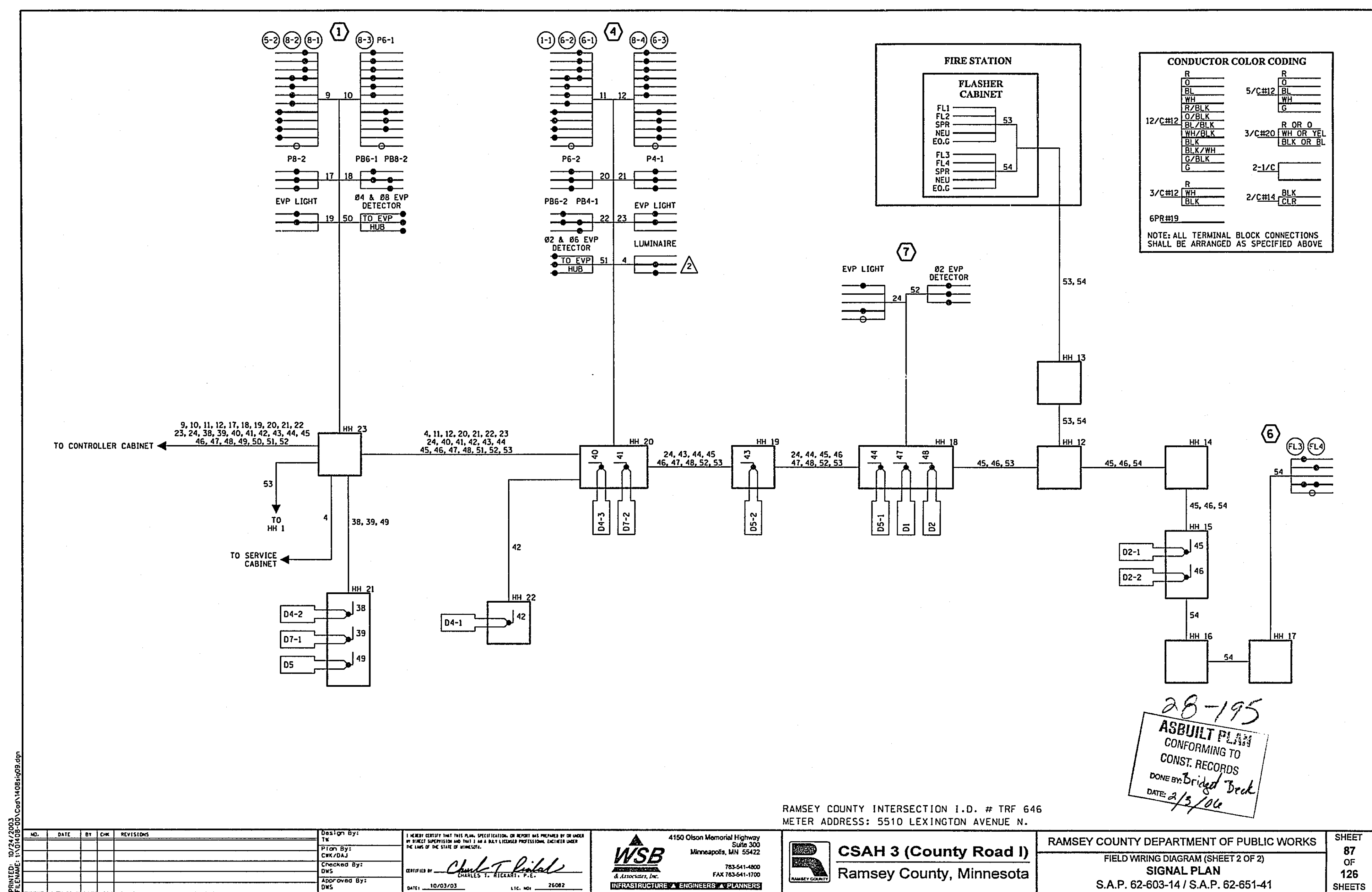
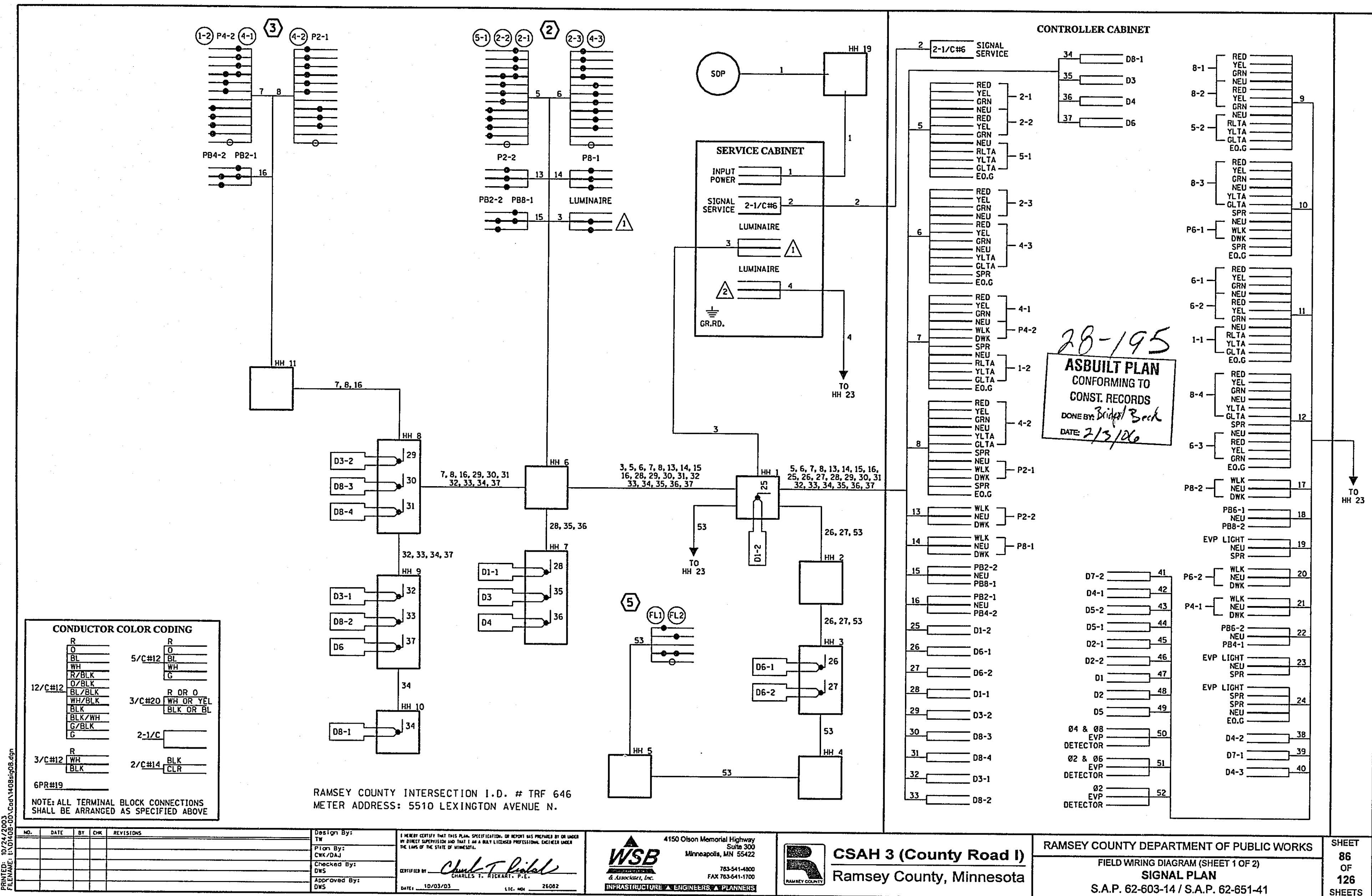
PERMANENT MARKING TABULATION ☒																													
STATION TO STATION		WHITE						YELLOW						ZEBRA CROSS		ZEBRA CROSS		PAVEMENT MESSAGES		MESSAGES (POLY-URETHANE)		PAVEMENT MESSAGES		MESSAGES (EPOXY)					
		4" SOLO LINE EPOXY		4" BROKEN LINE EPOXY		4" SOLO LINE PAINT		4" SOLO LINE EPOXY		4" BROKEN LINE EPOXY		4" SOLO LINE PAINT		4" DOUBLE SOLO LINE EPOXY		4" DOUBLE SOLO LINE PAINT		LEFT TURN ARROW		RIGHT TURN ARROW		RIGHT TURN ARROW		HAND CAP SYMBOL		LEFT TURN ARROW		RIGHT TURN ARROW	
		LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	LIN. FT.	LTN. FT.	SO. TD.	SO. TD.	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
S.A.P. 62-603-14 COUNTY ROAD 1																													
100+12 TO 100+40									510	90																			
100+40 TO 116+20				700					45	204		440					16												
116+20 TO 127+85				2125								1195	250		18				2	3									
127+85 TO 135+40				1580								1140	125		24						2	2							
LEPAK COURT (1) SHOUD TO 59+75						1630							700				15												
PARKING LOT (1)						320																			2				
SUBTOTAL		6170	0	1950	355	294		3375	375	700	58	15		4	3	2	2	2											
S.A.P. 62-653-14 LEXINGTON AVENUE																													
417+30 TO 425+25				450	462						1180	150		28		2	2												
425+25 TO 432+40				250	308						1015	135		26		1	1												
SUBTOTAL		700	110	0	0	0	0	255	285	0	54		3	3	0	0	0	0							0	0			
TOTAL		7470	770	1860	354	284		4540	660	700	112	15		6	3	2	2	2											

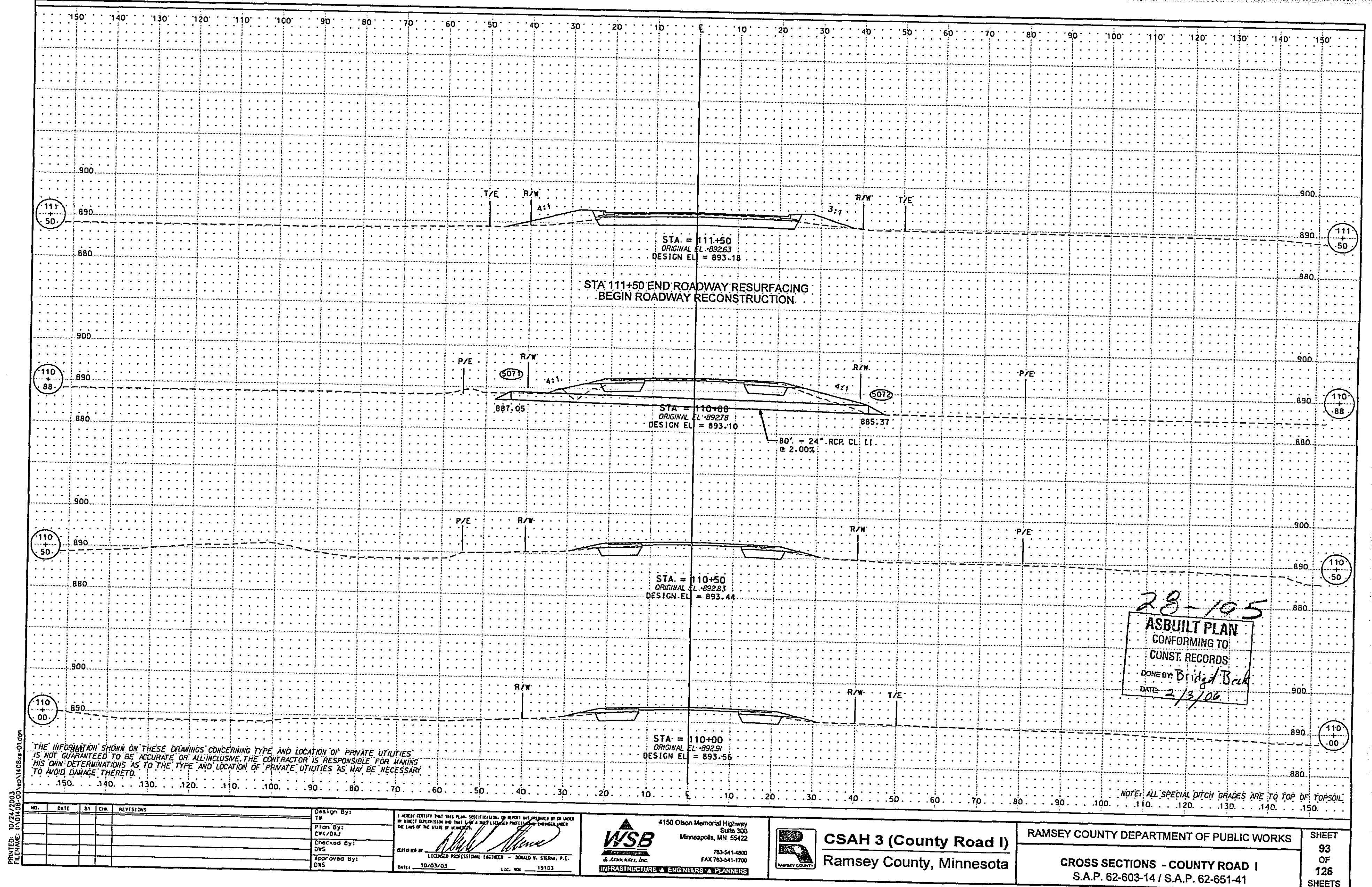
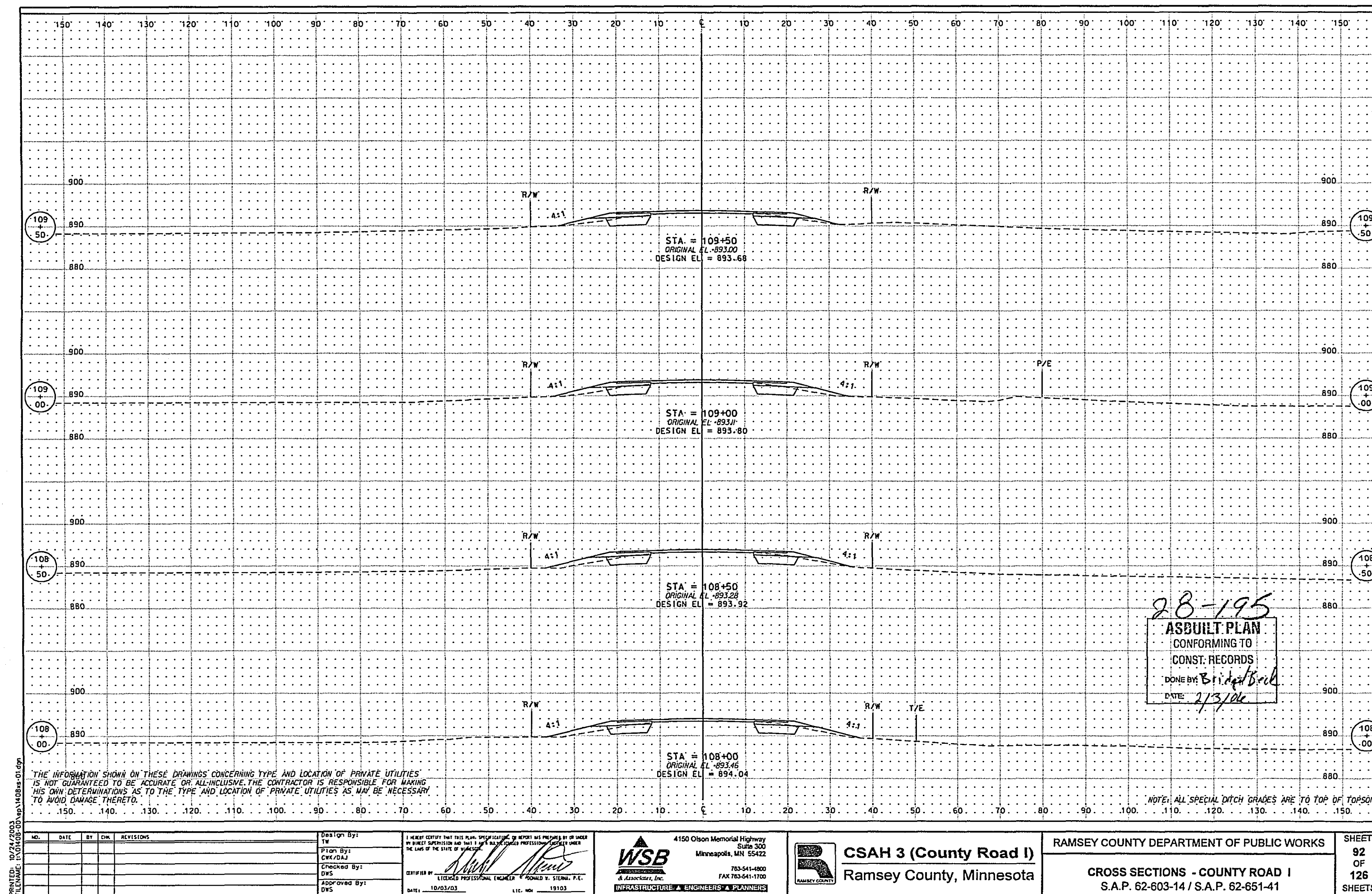
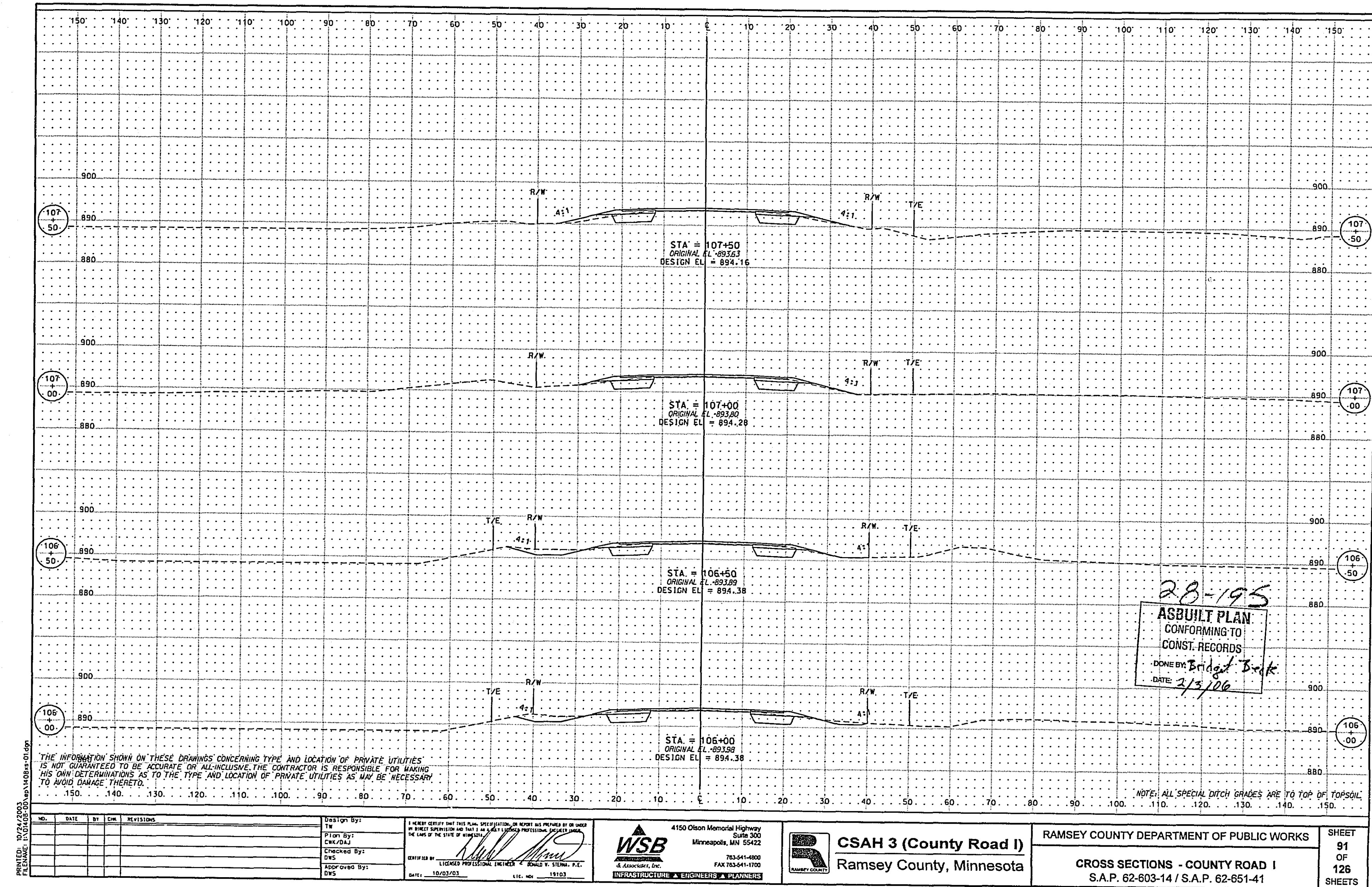
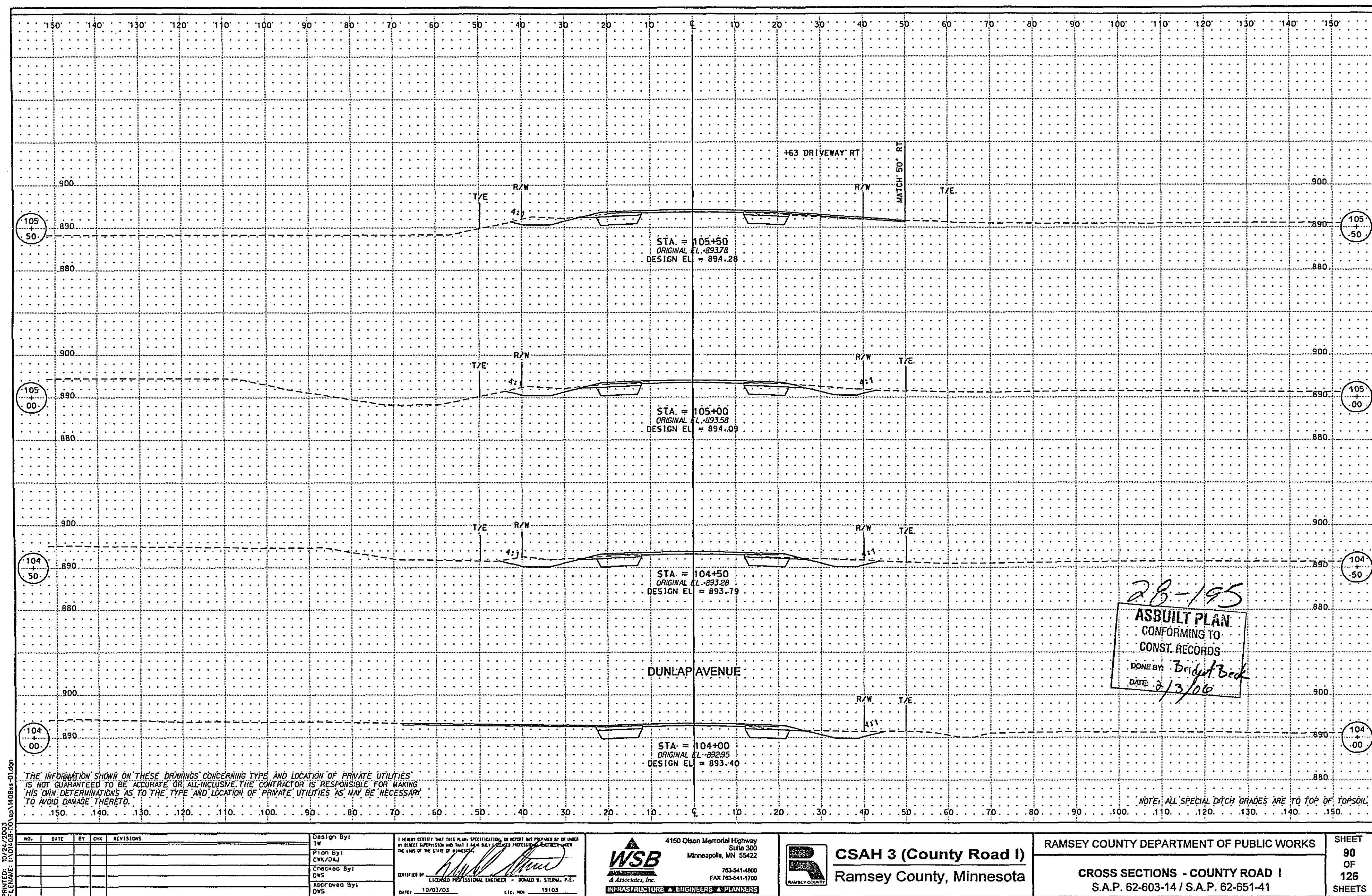
28-195

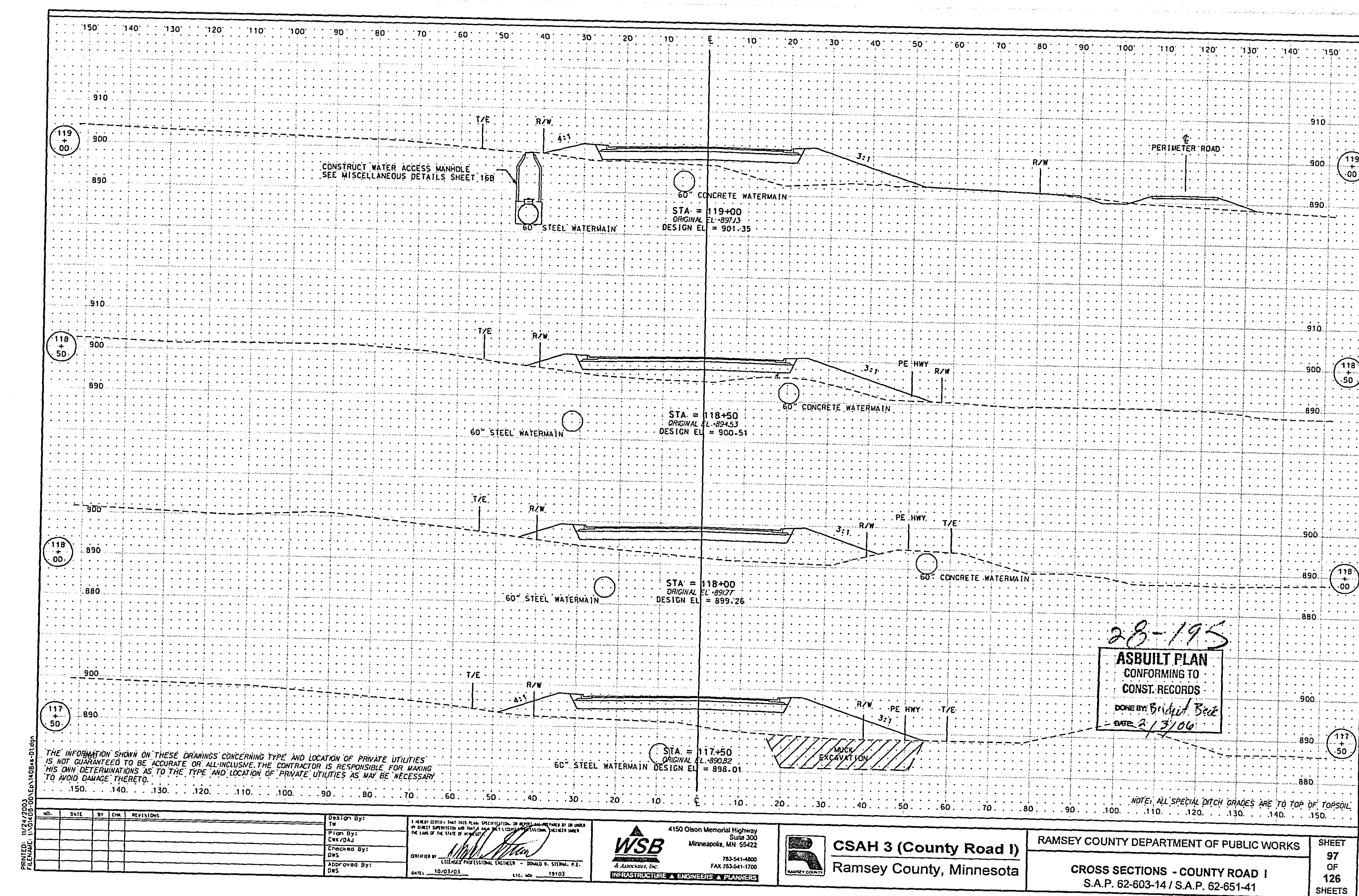
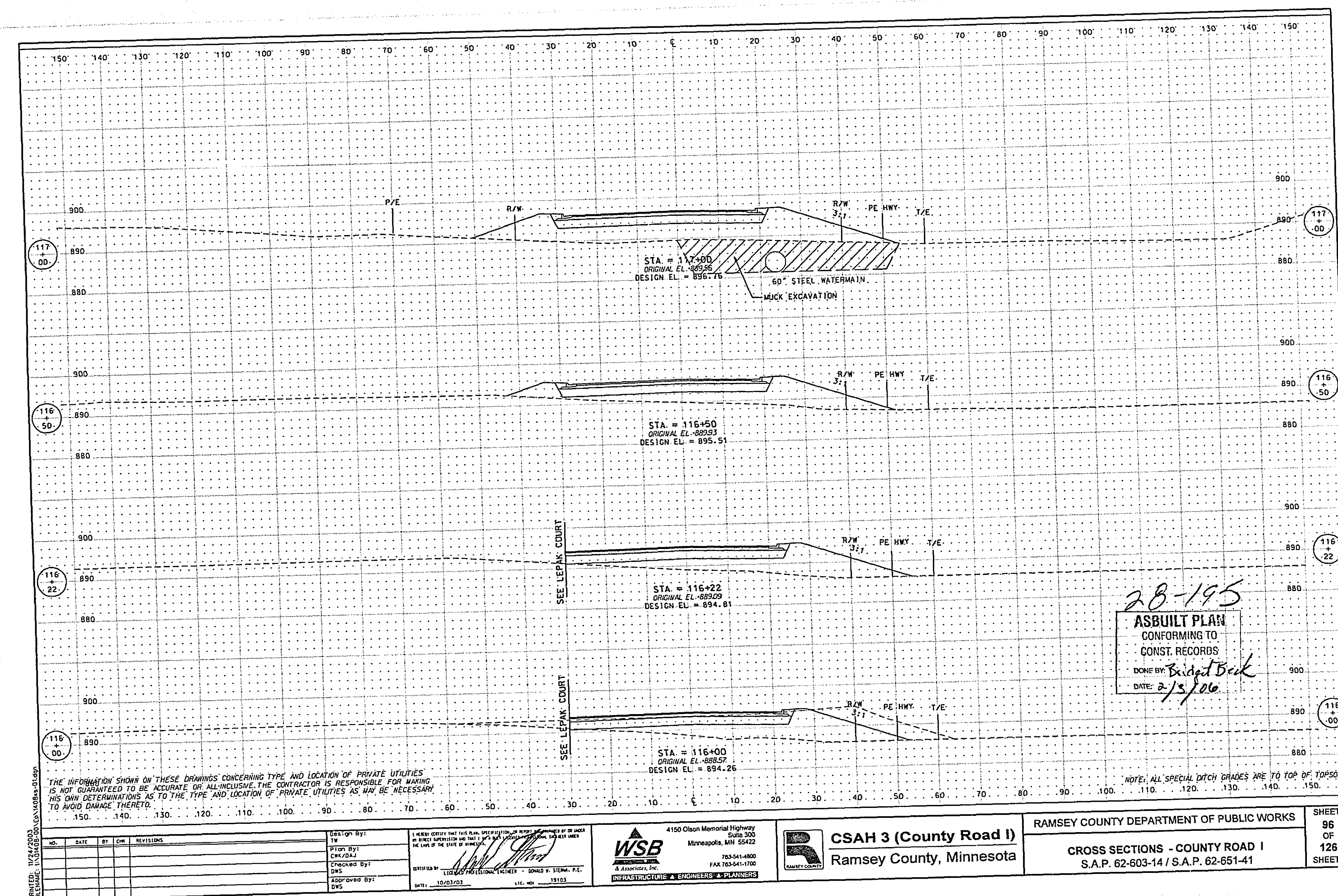
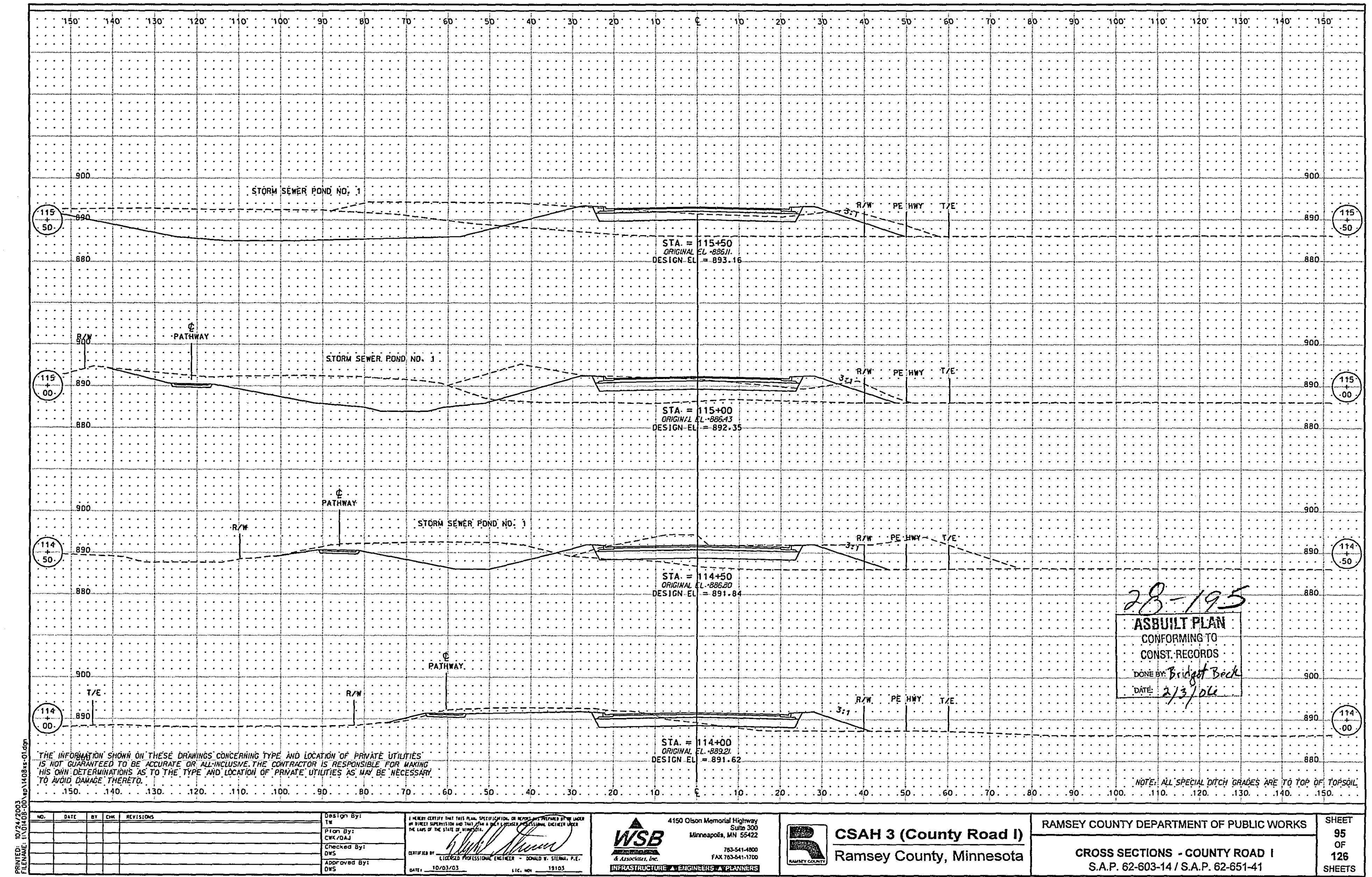
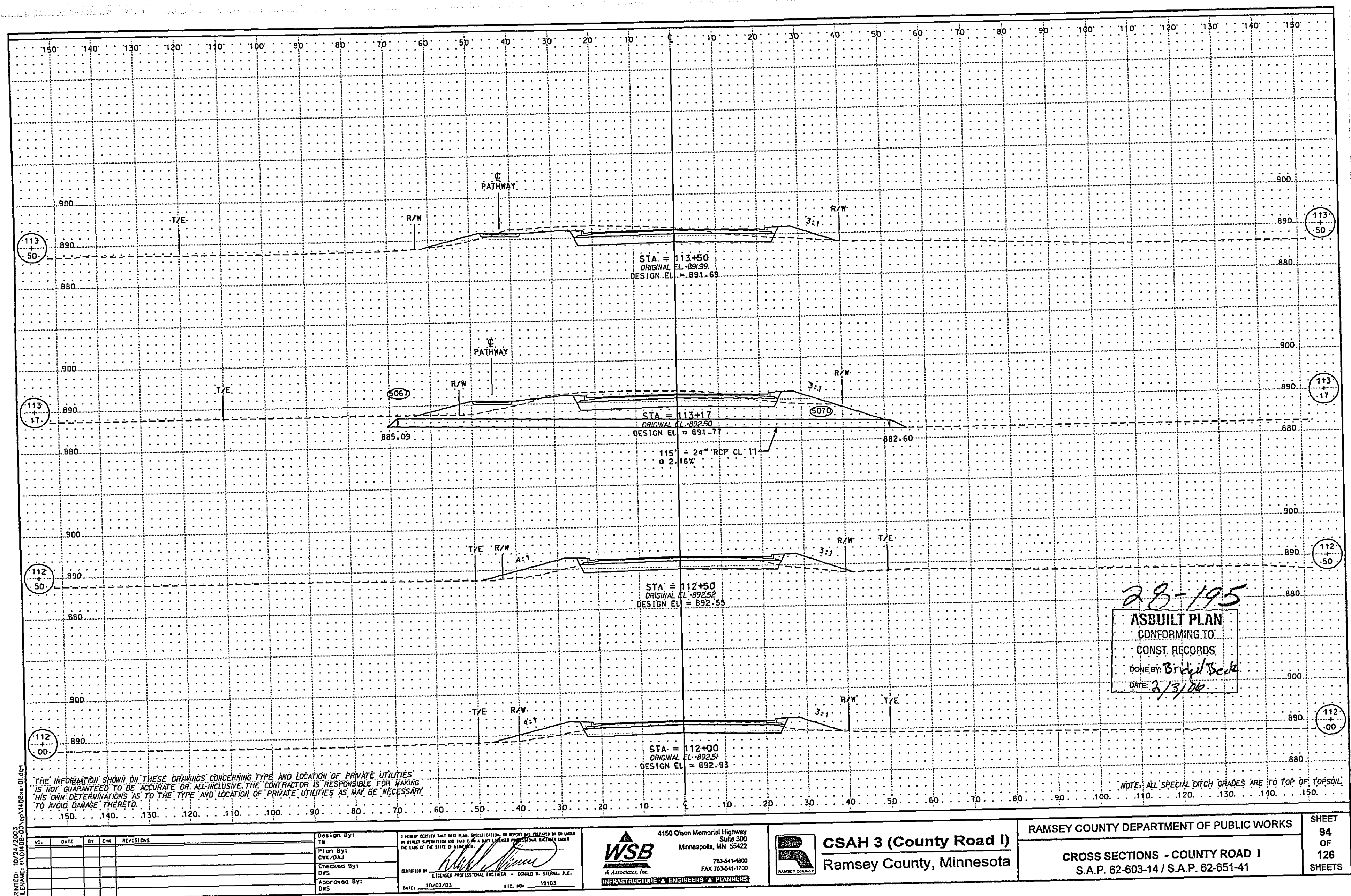
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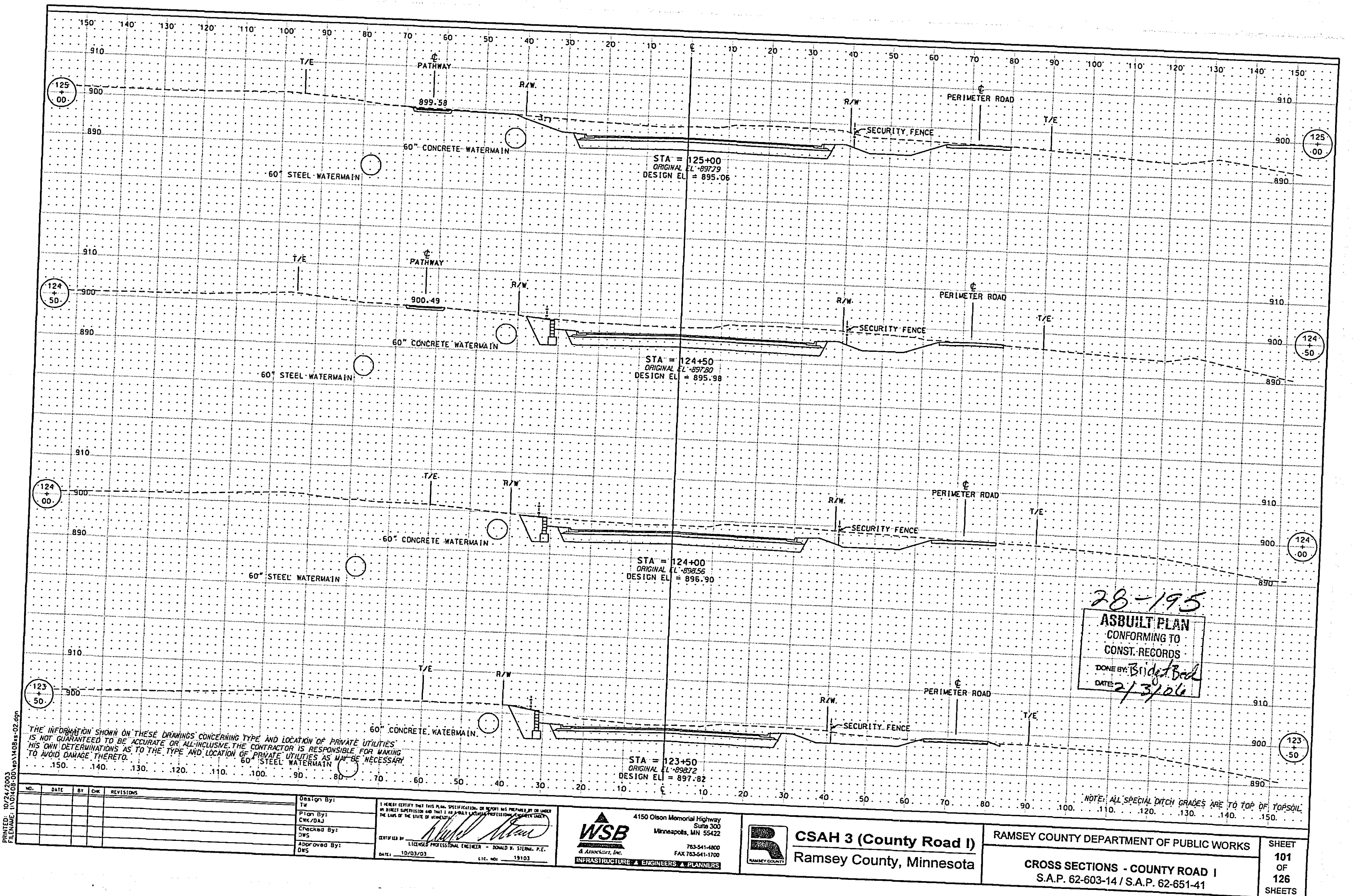
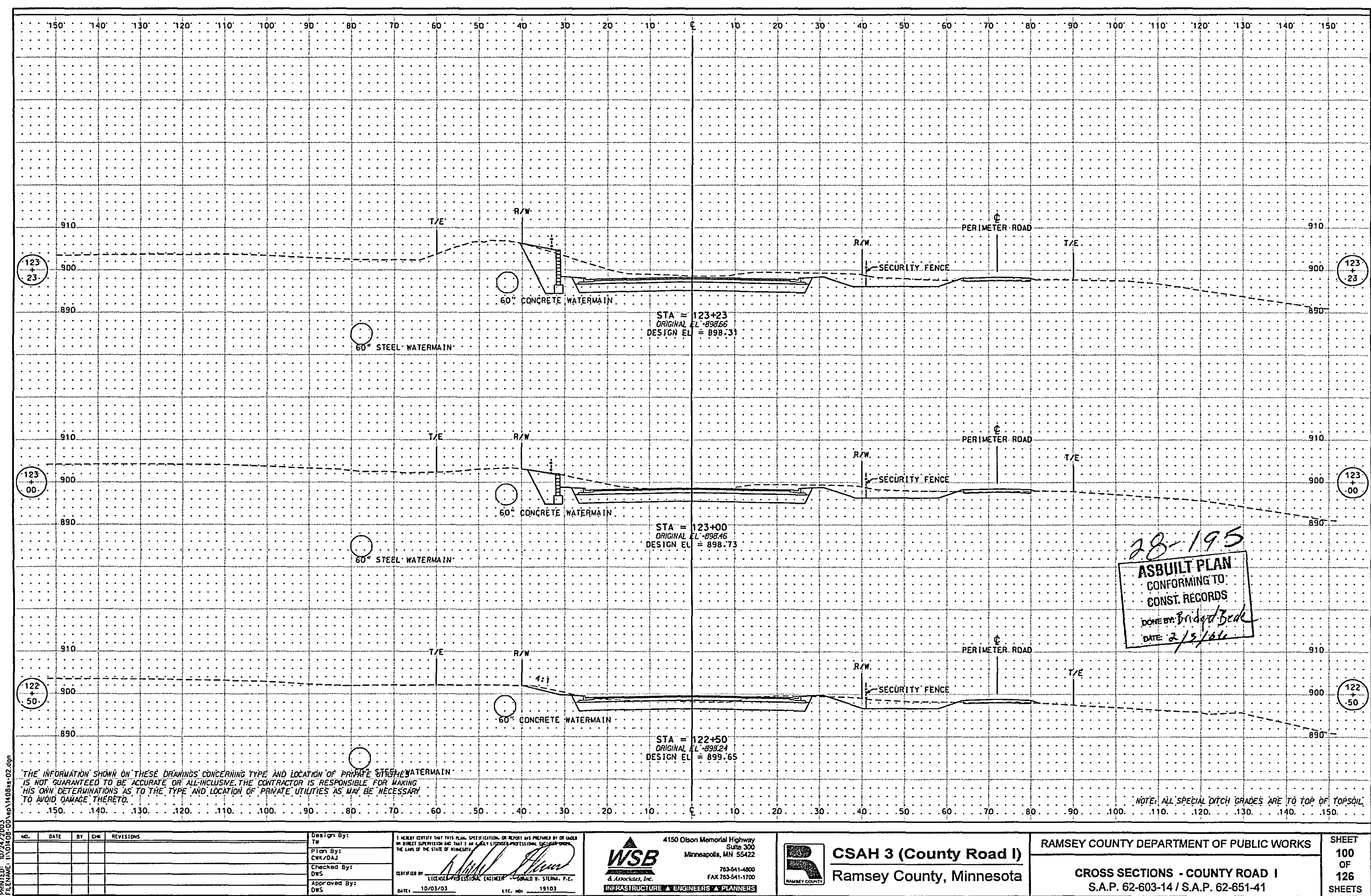
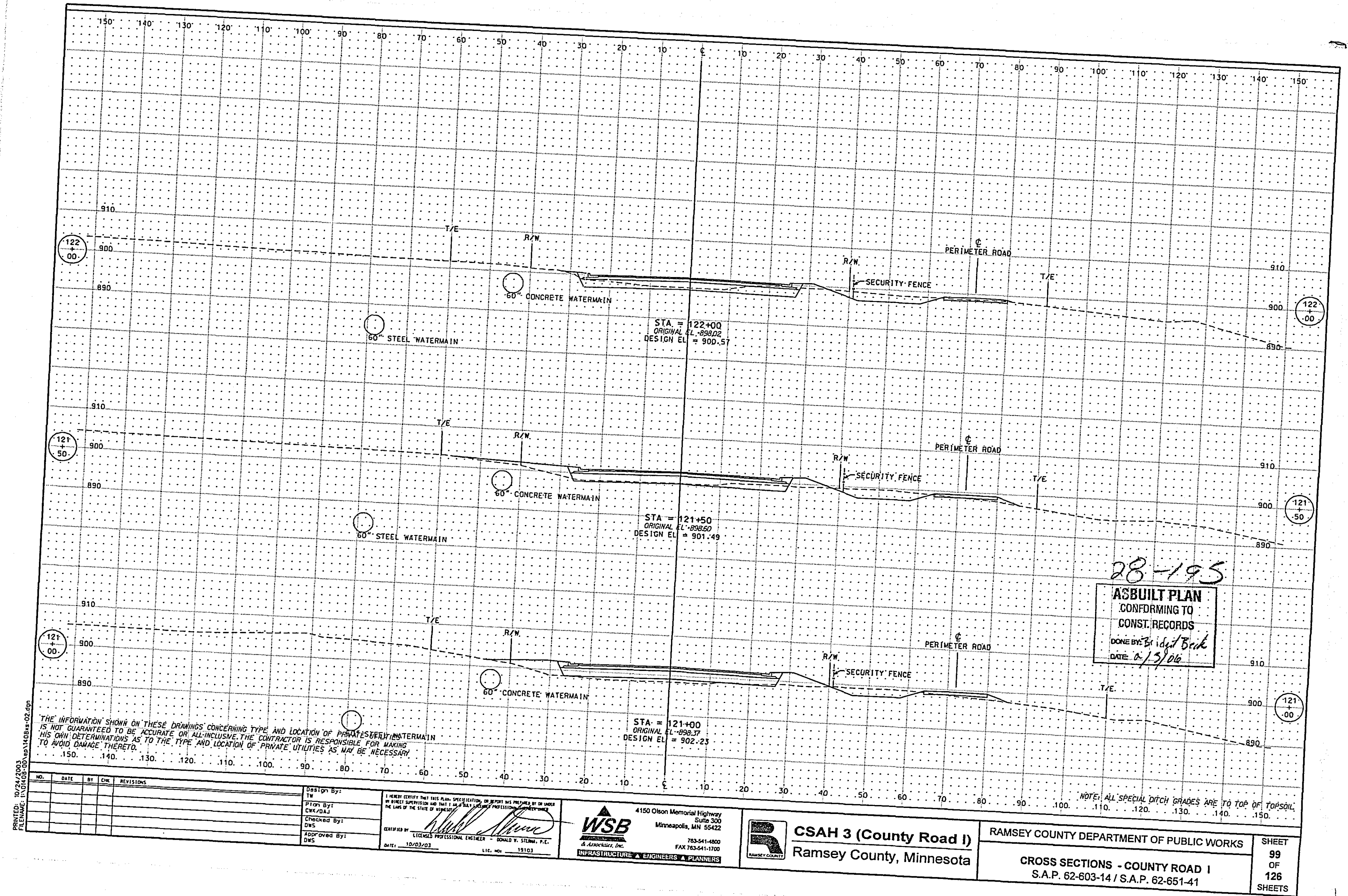
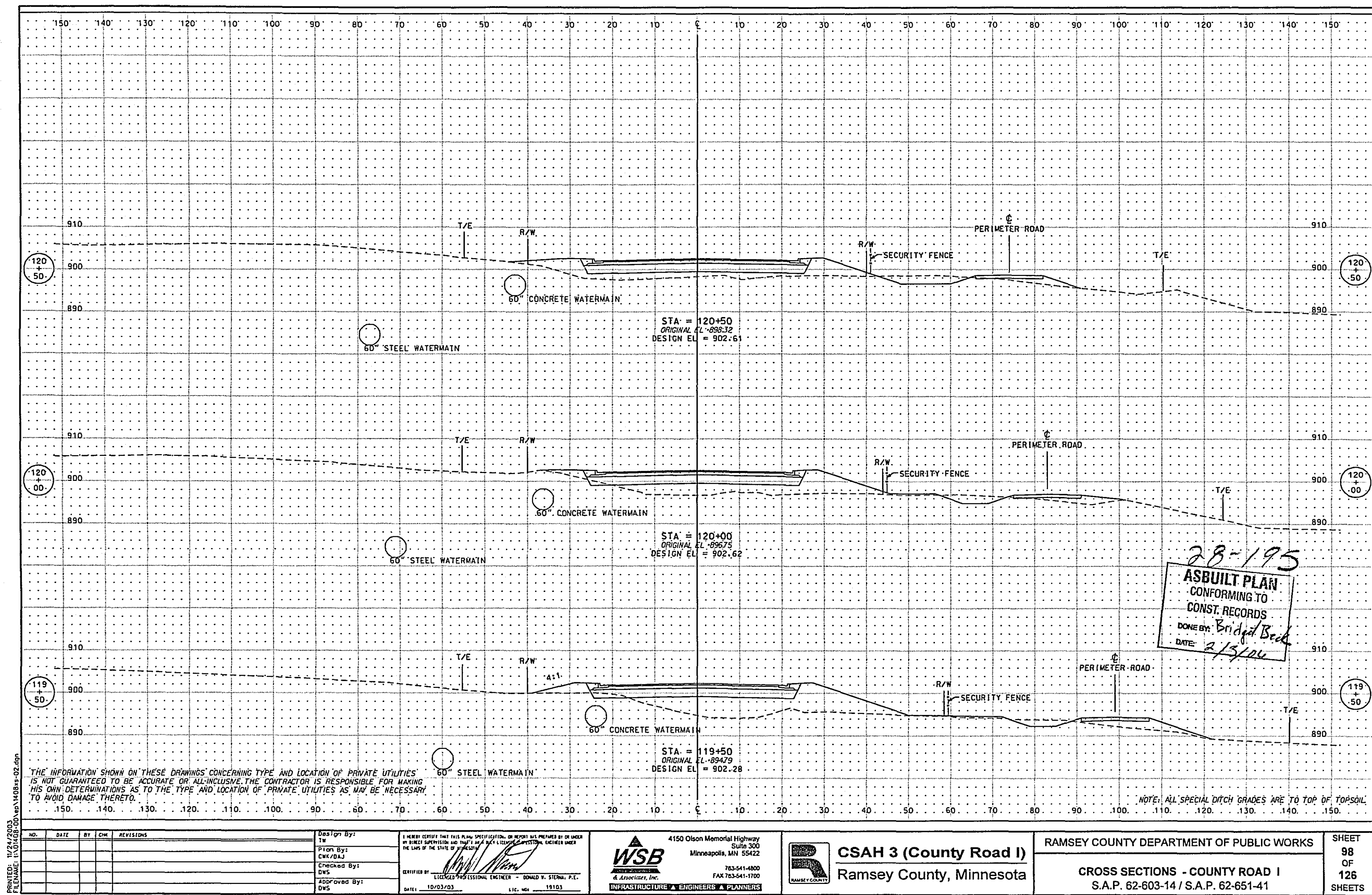


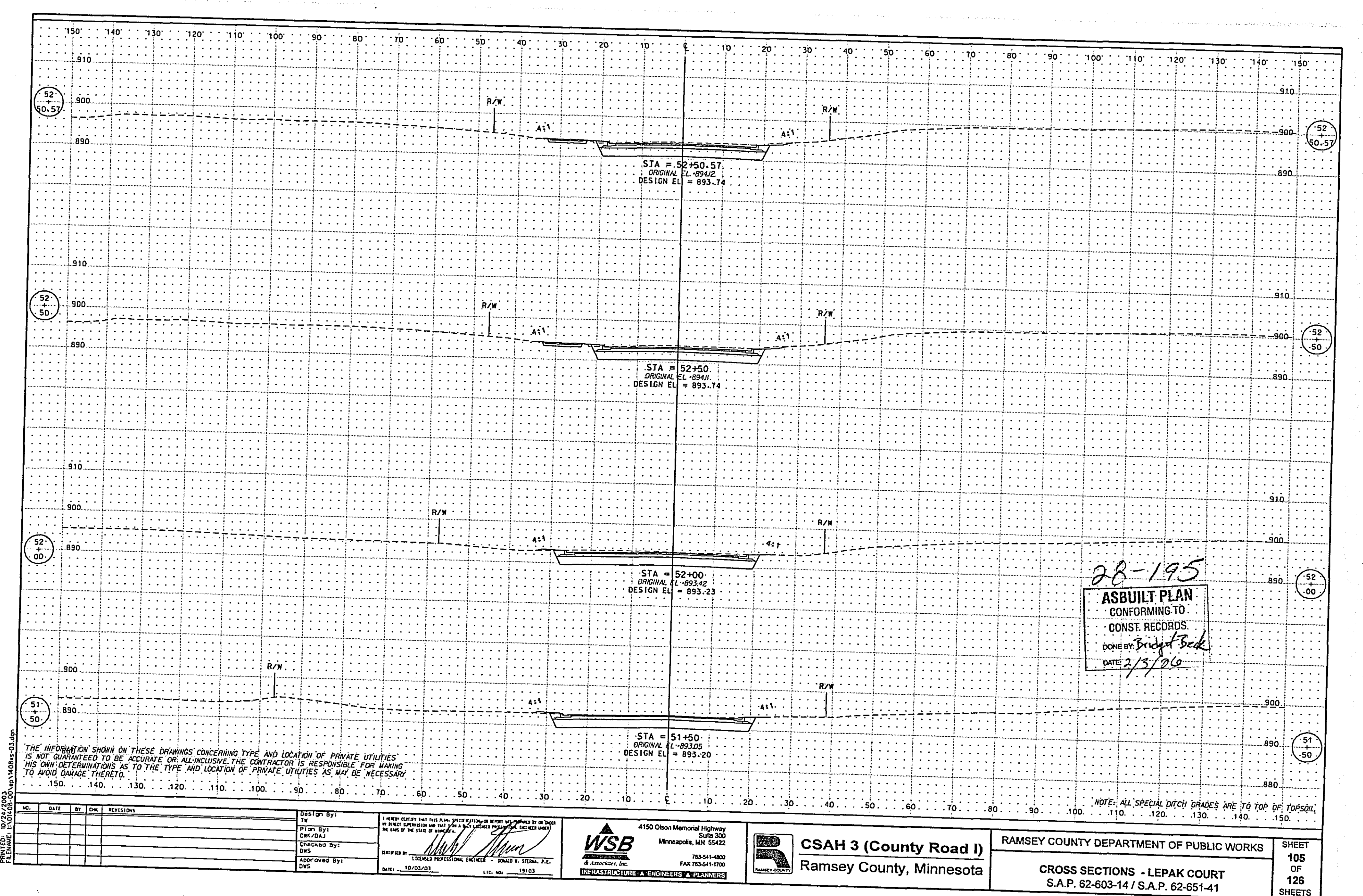
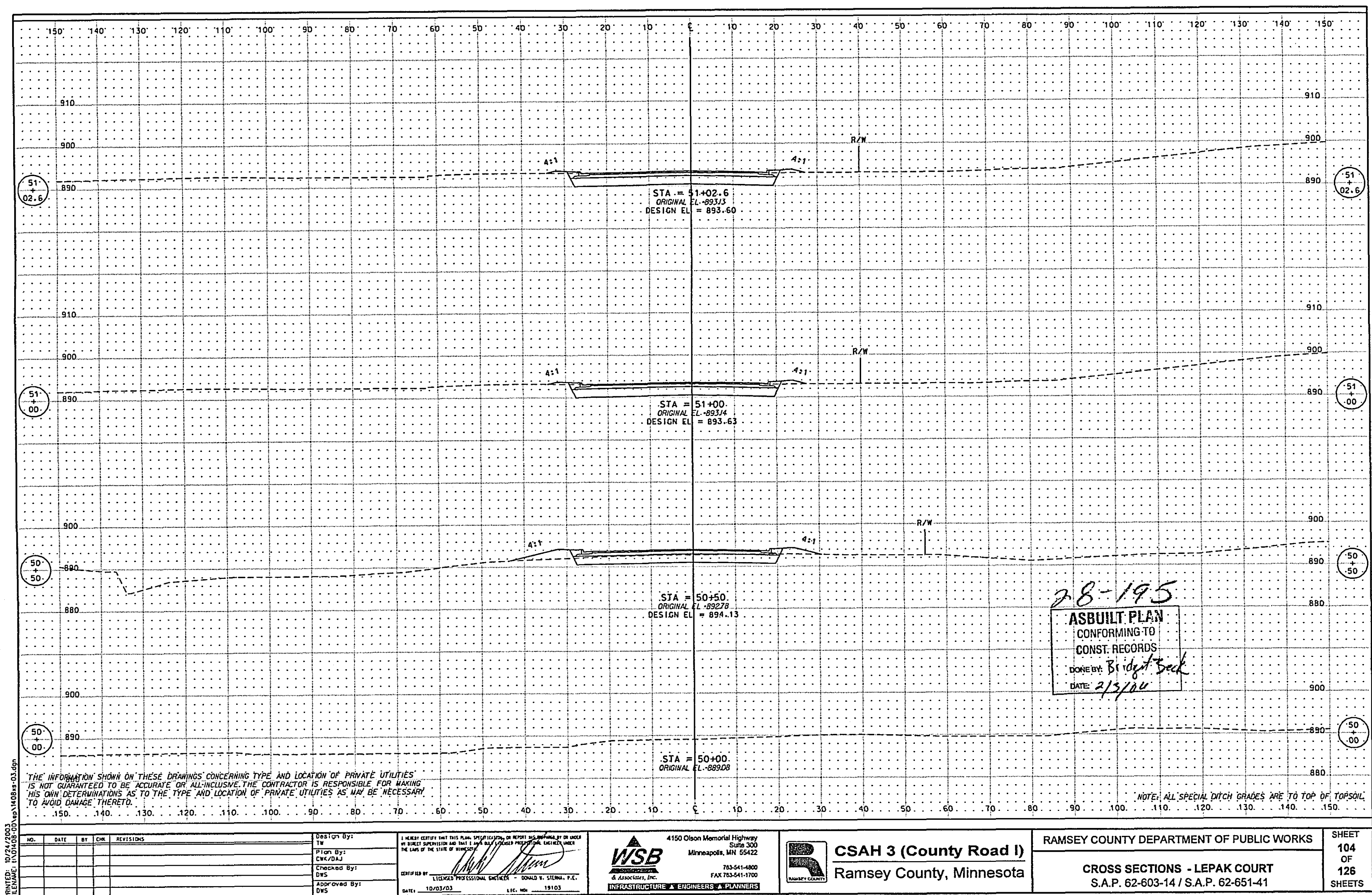
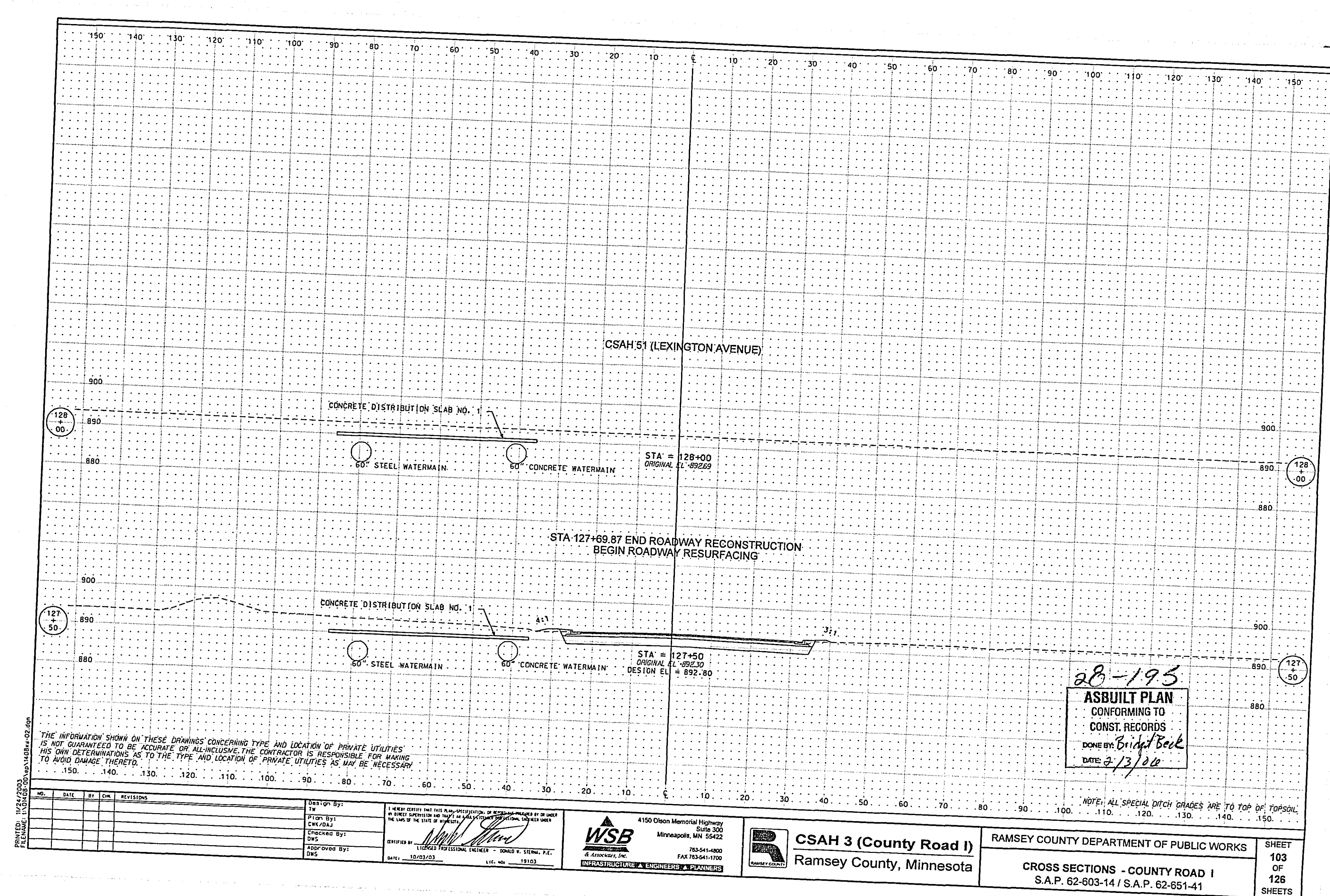
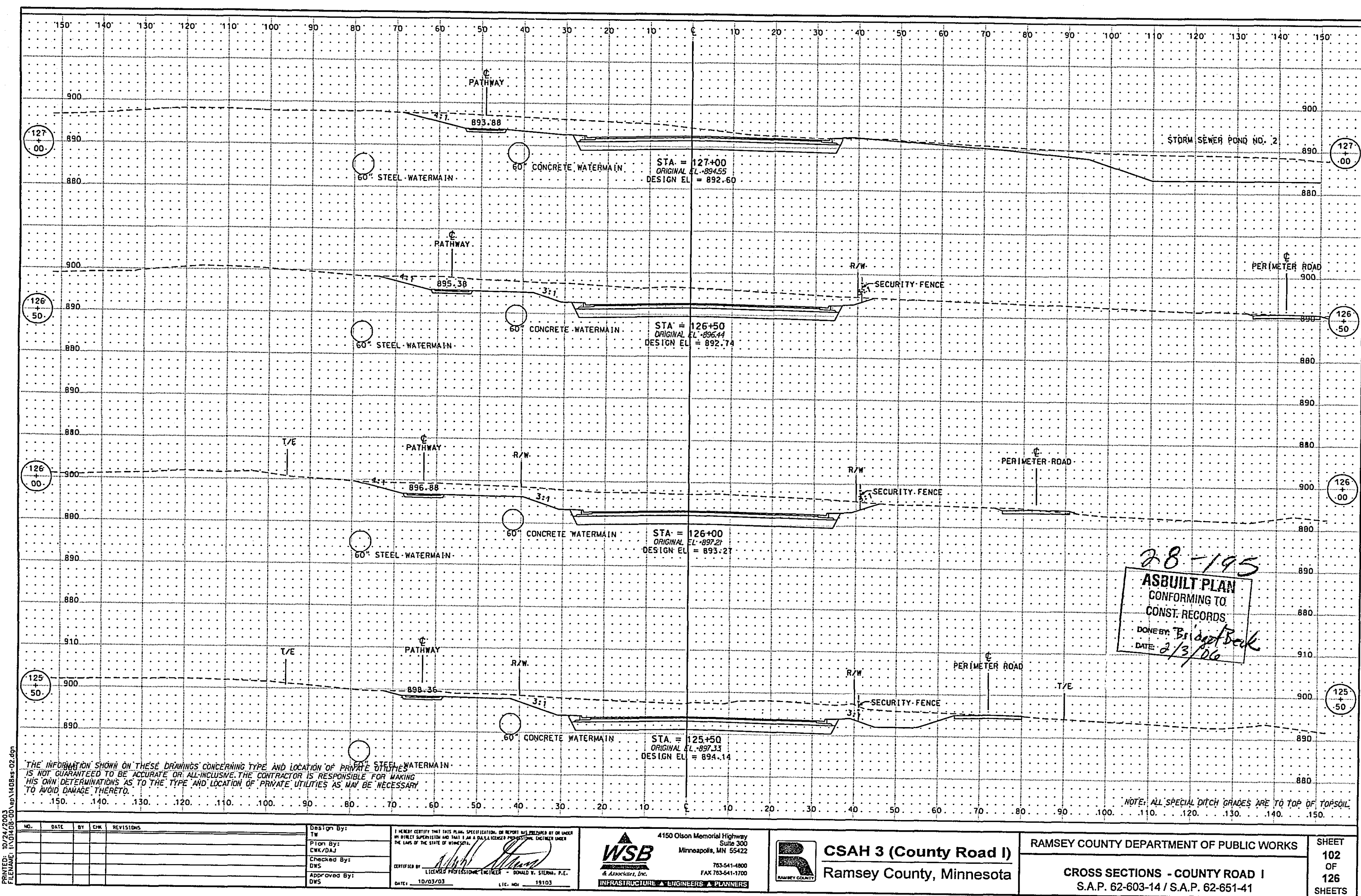


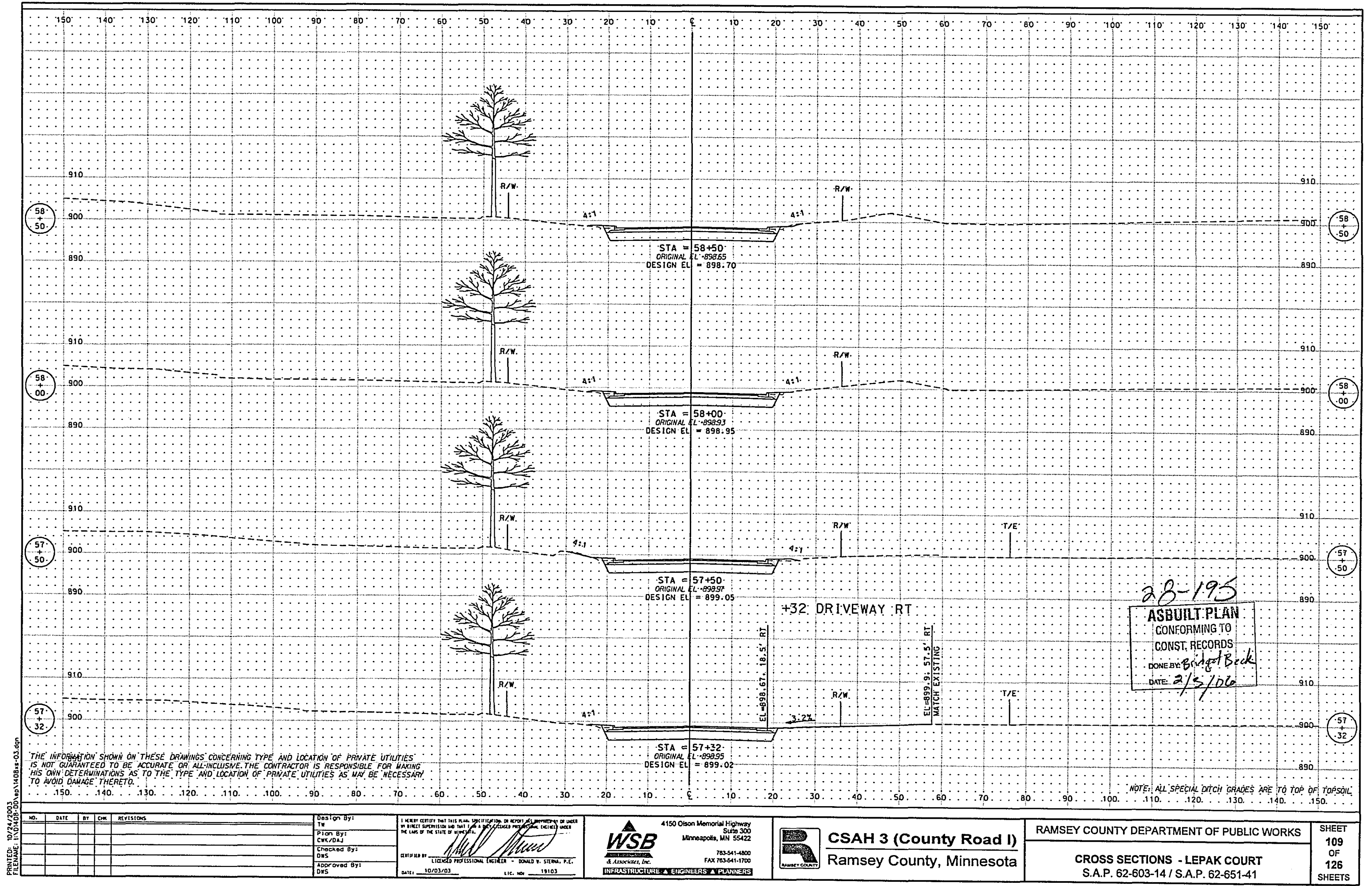
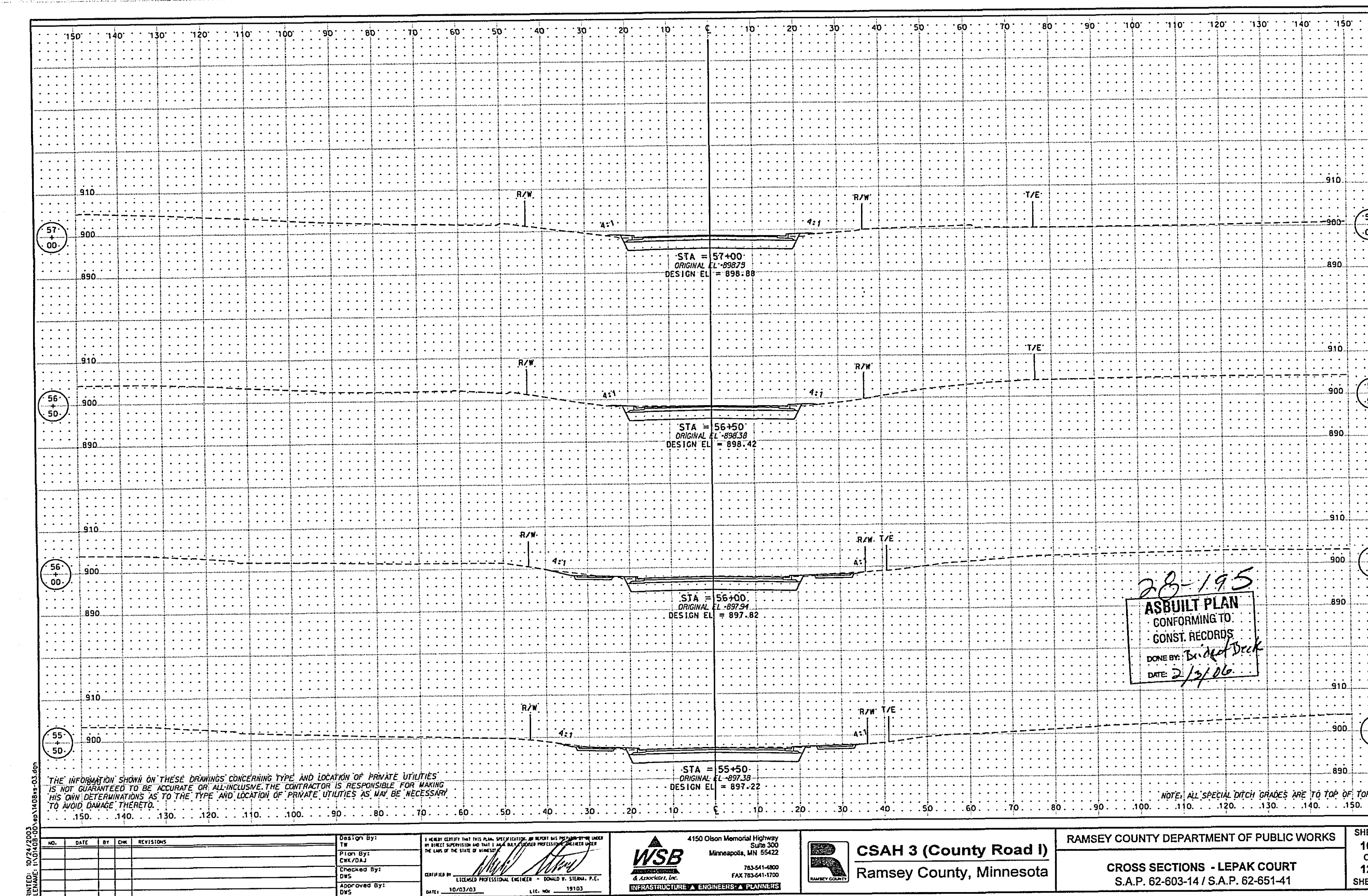
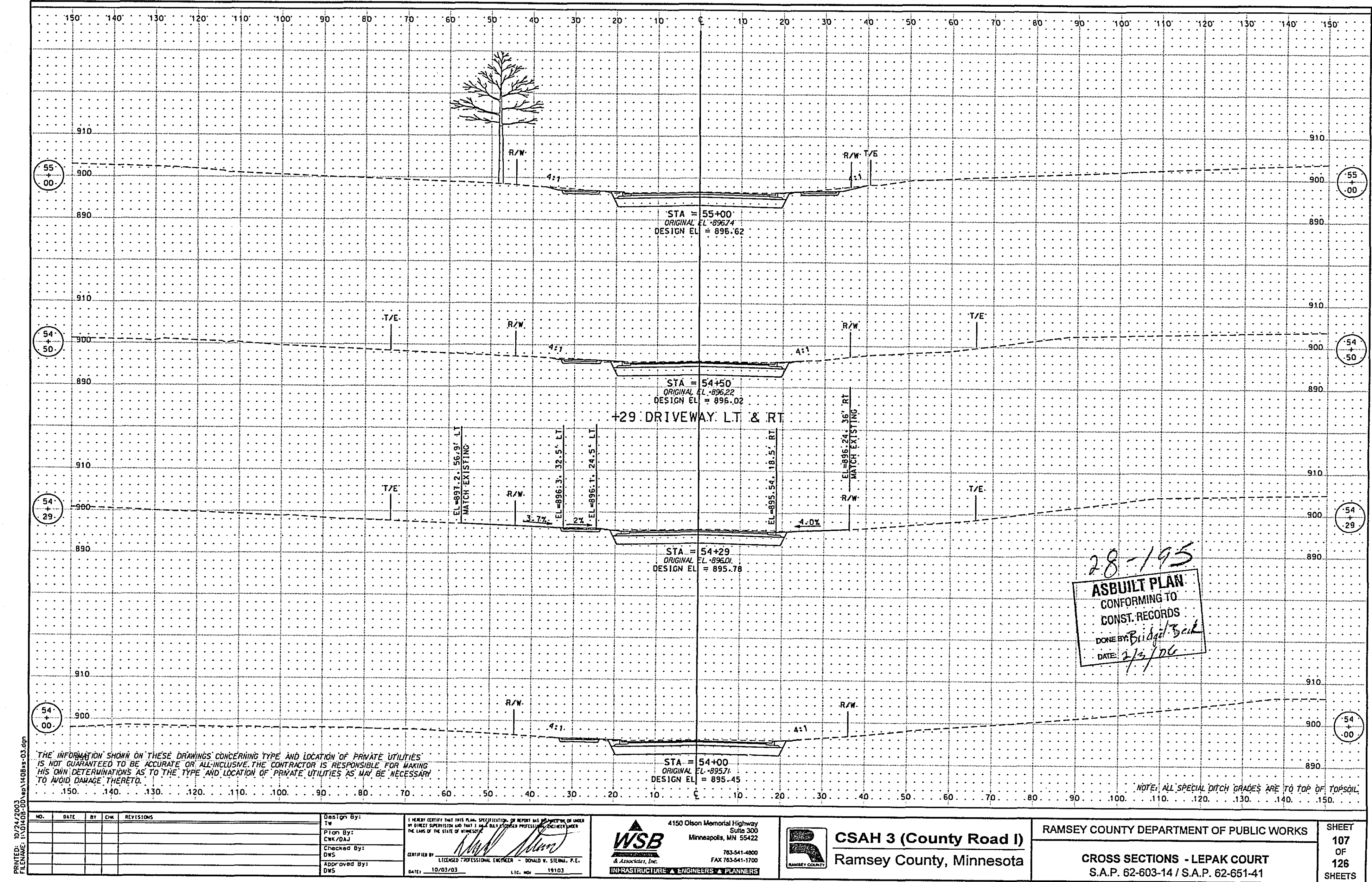
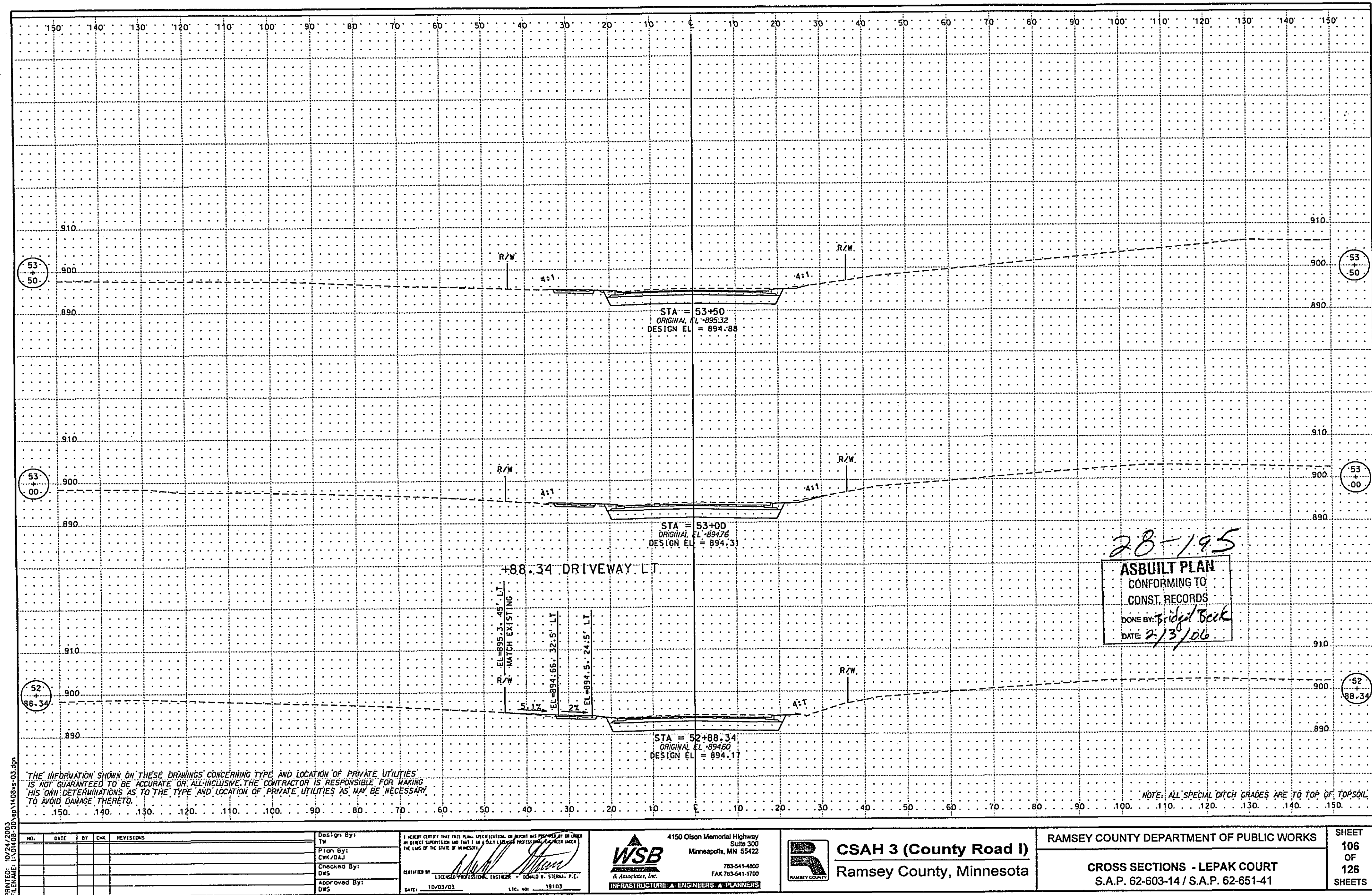


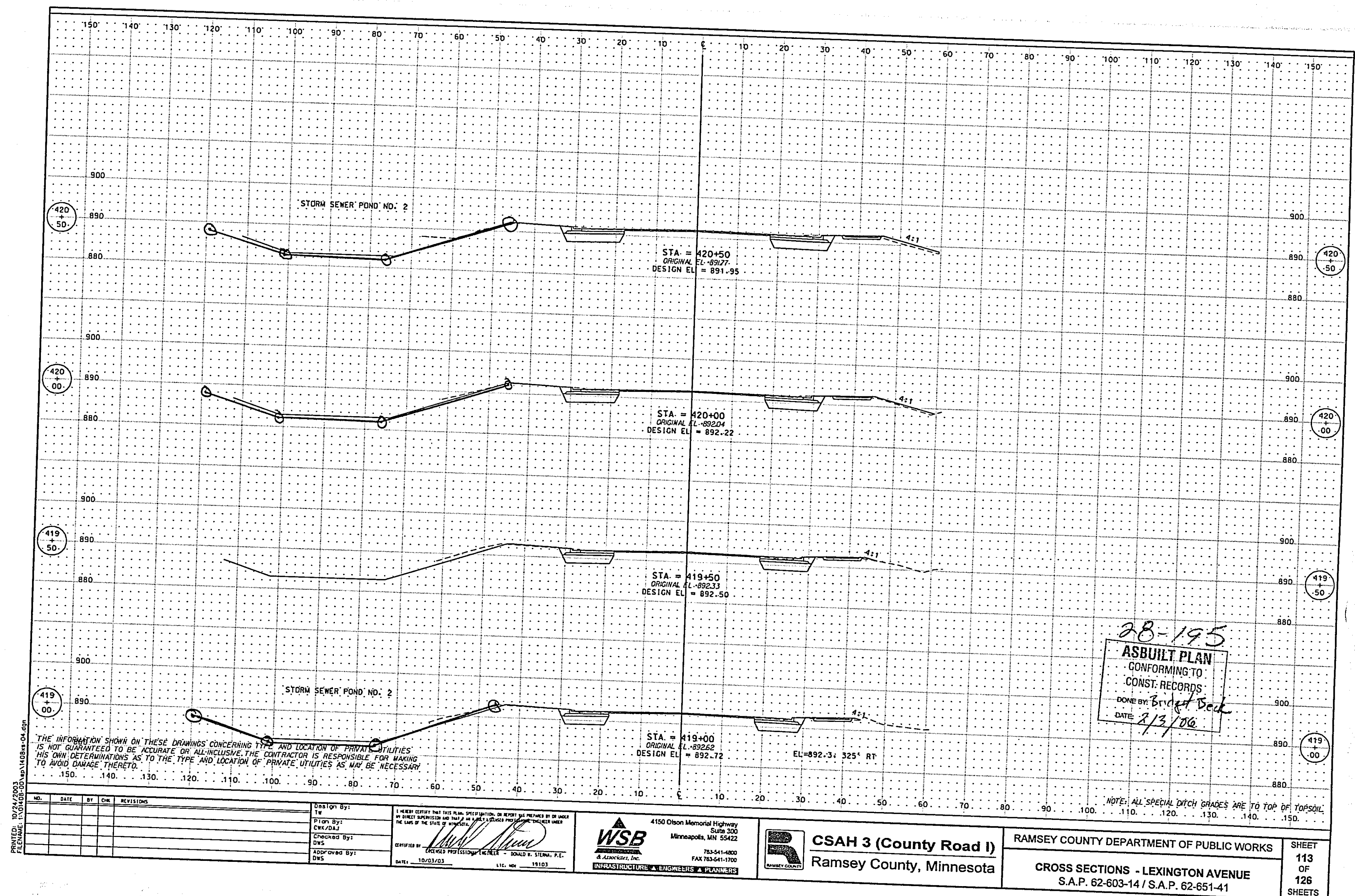
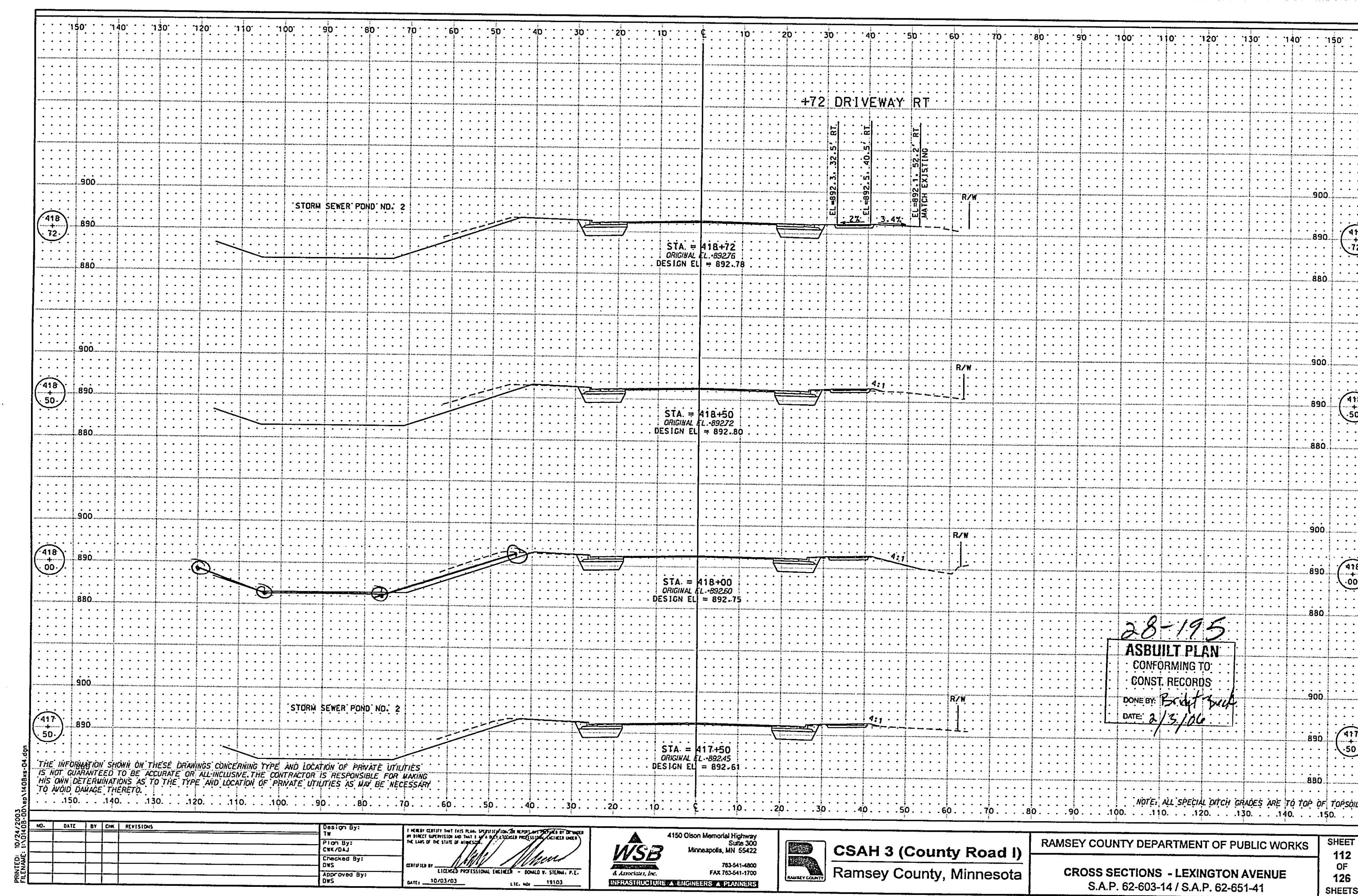
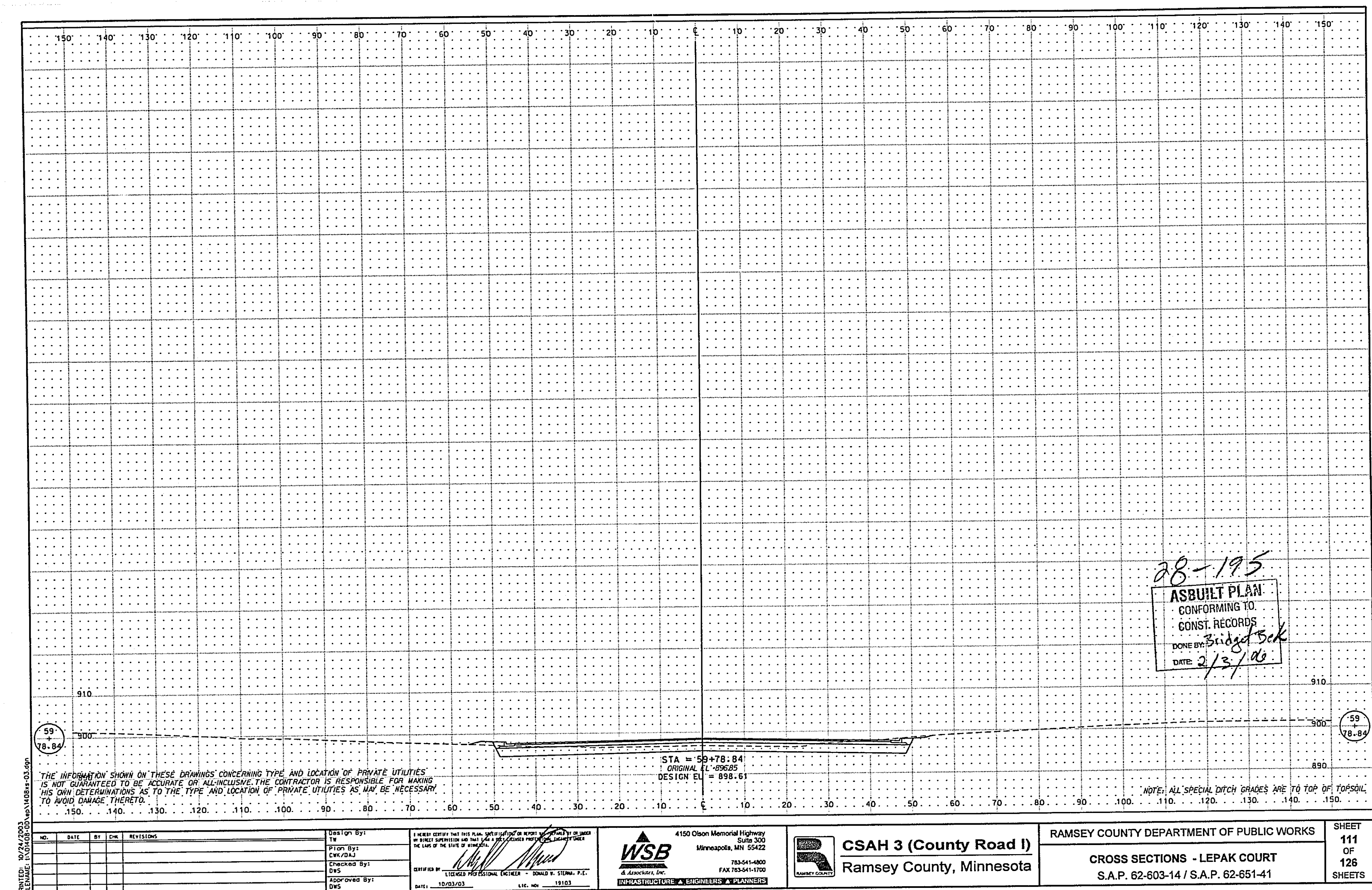
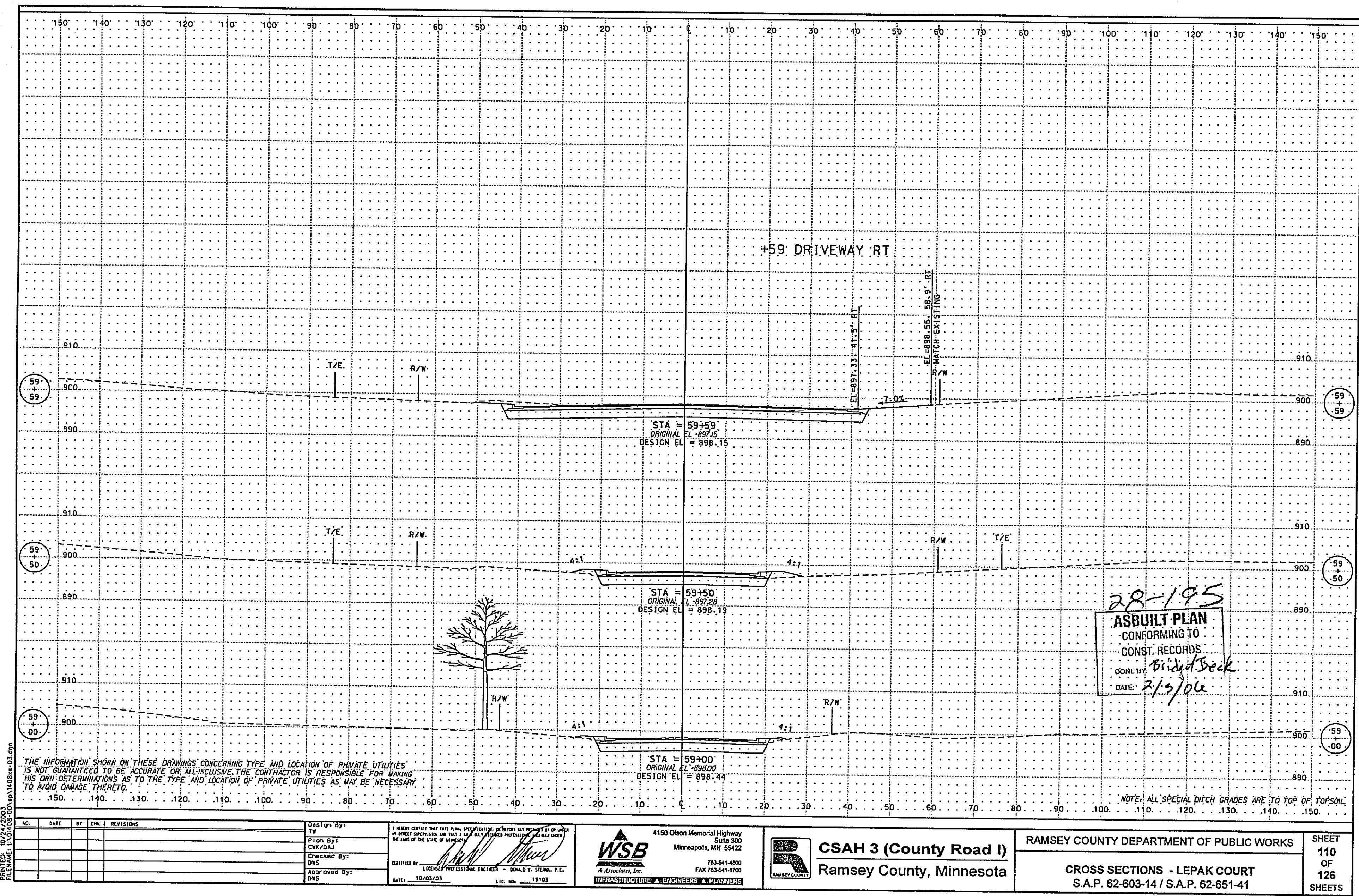


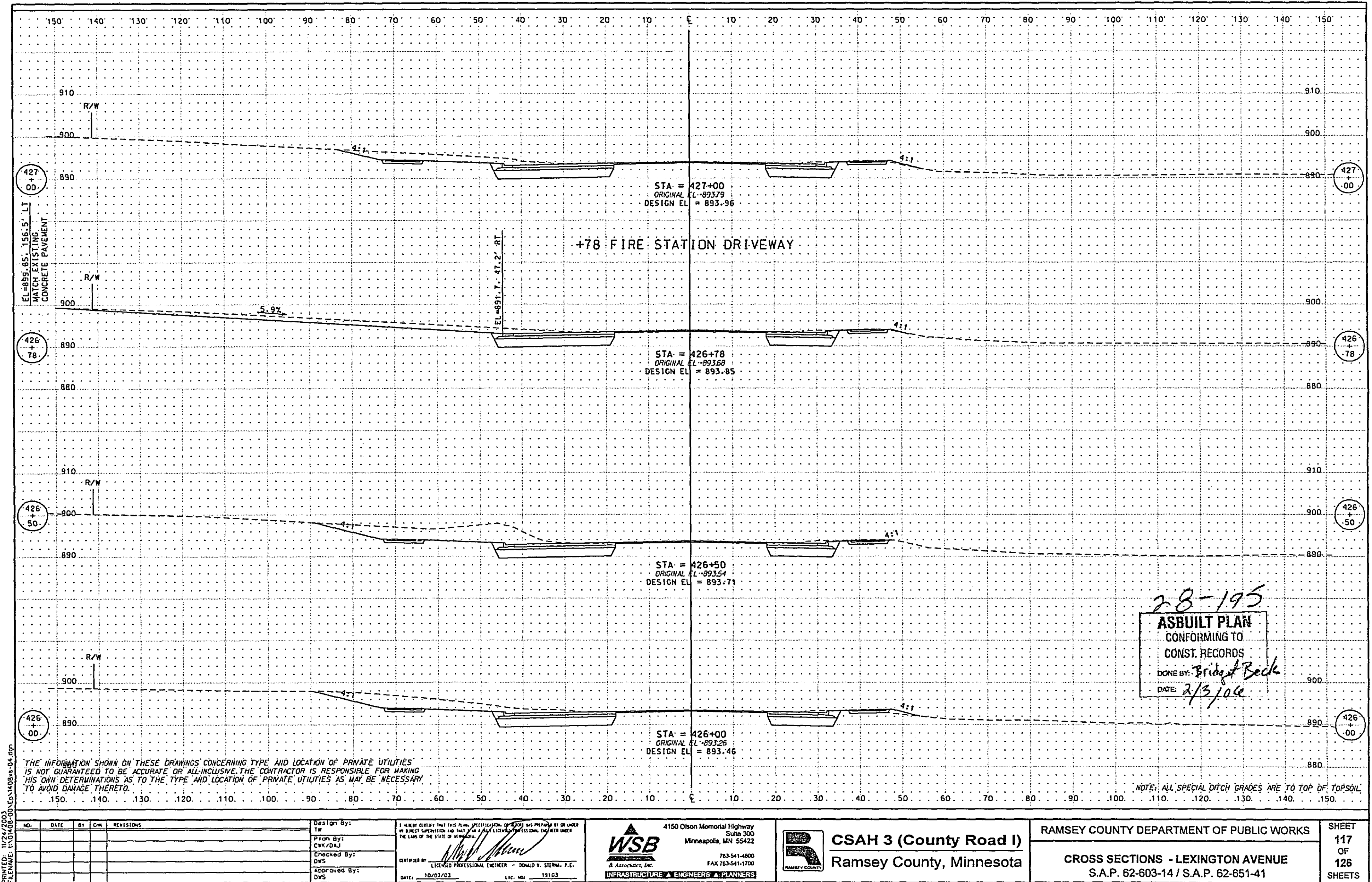
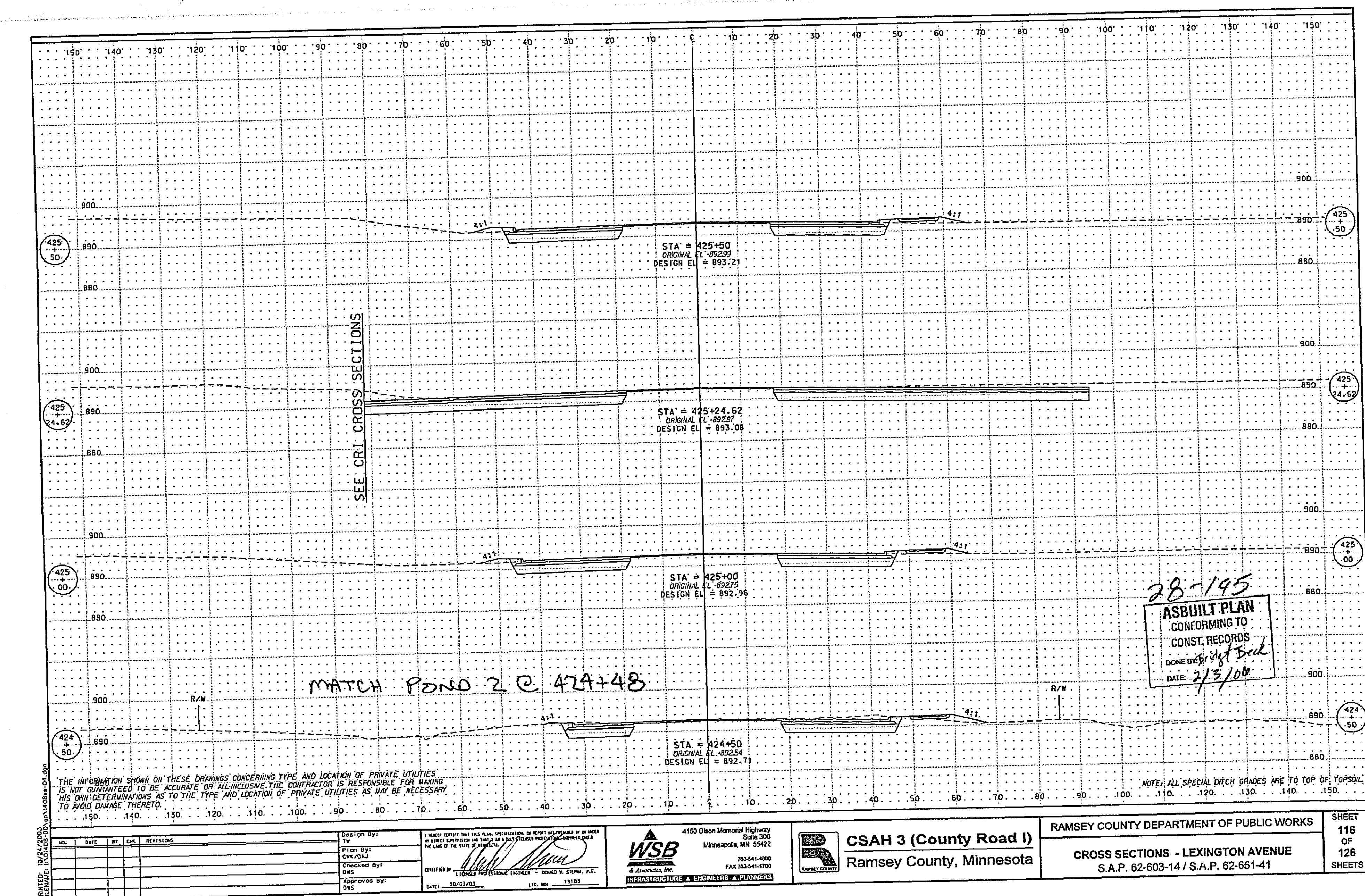
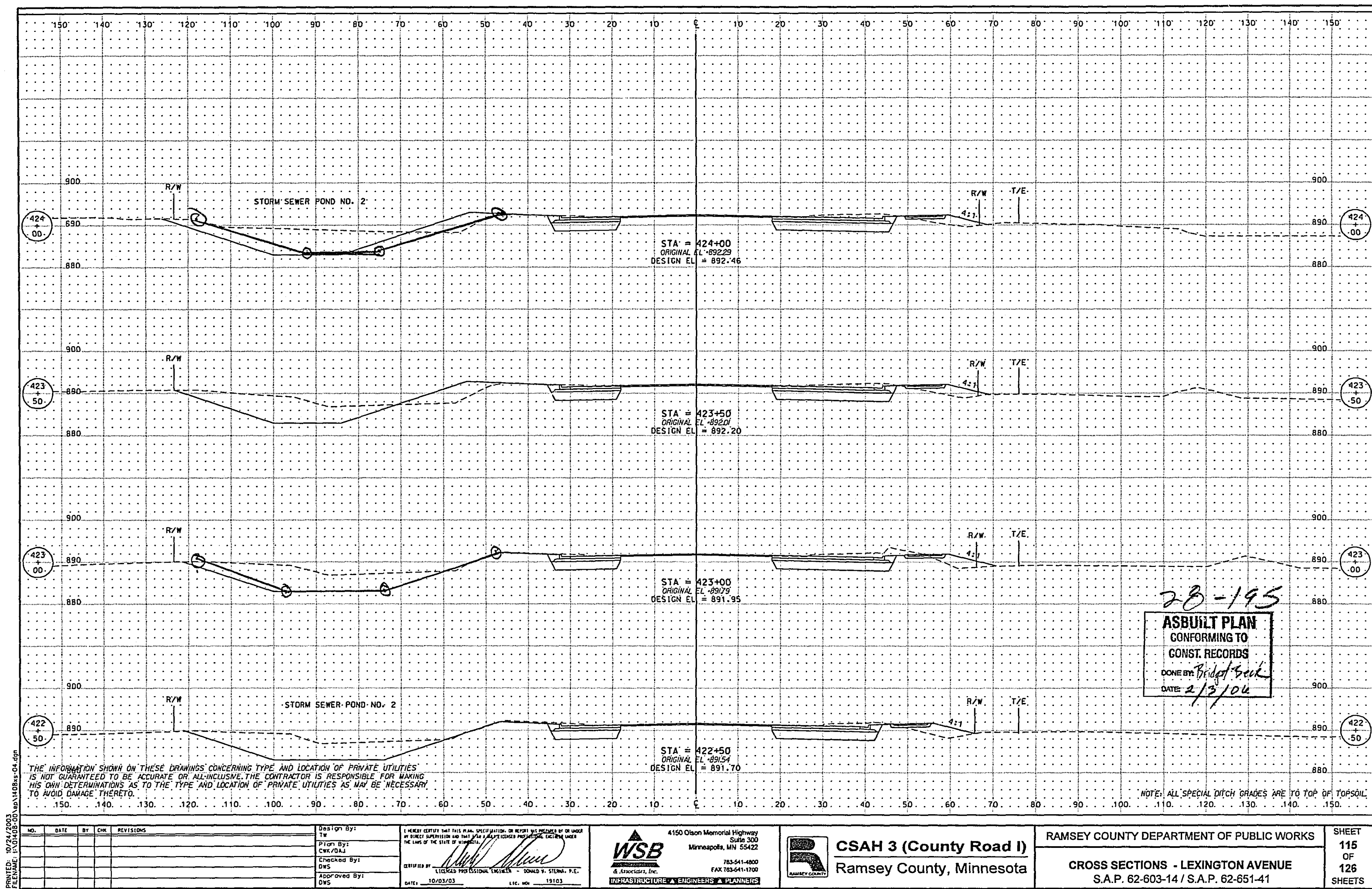
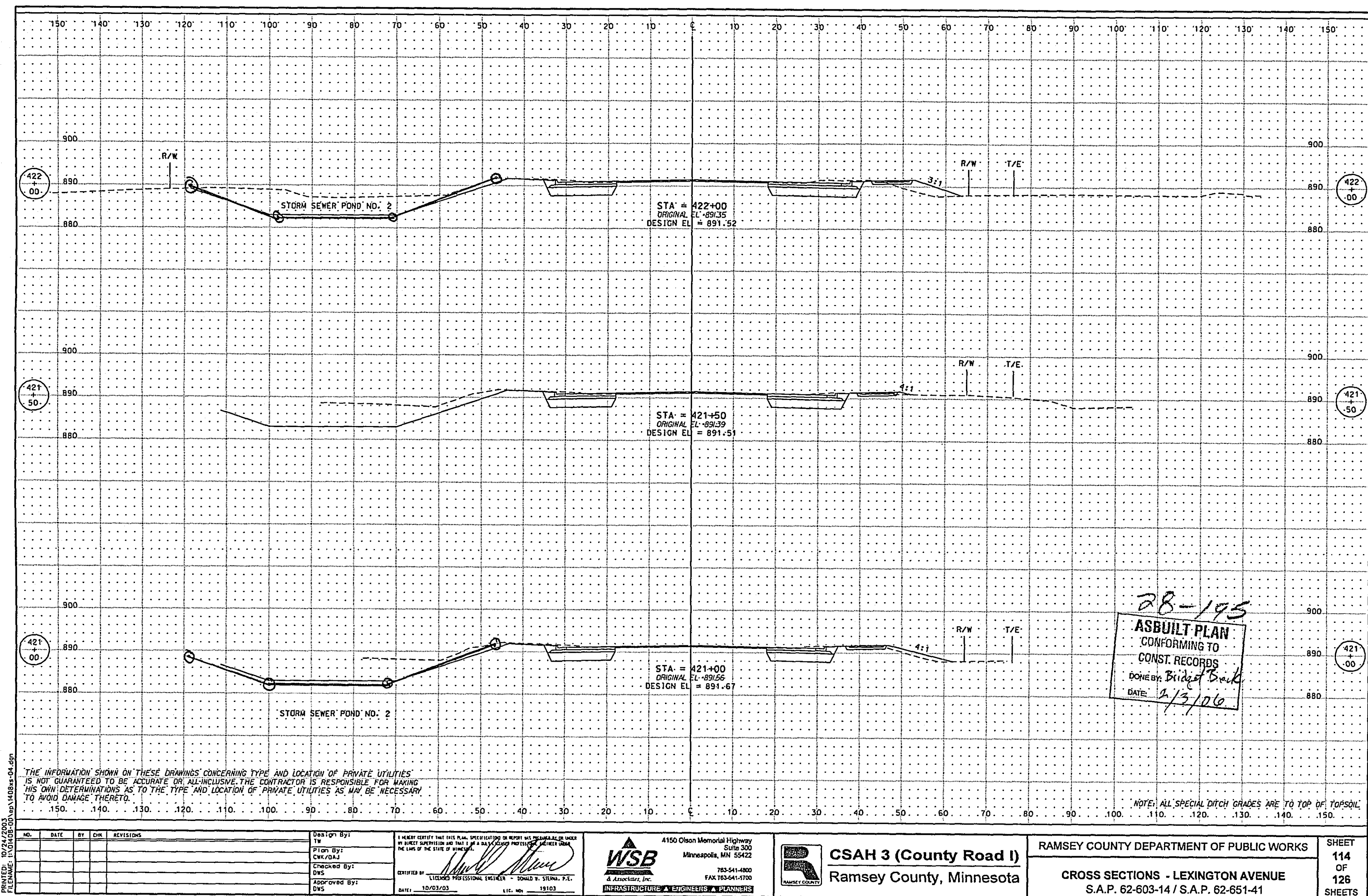


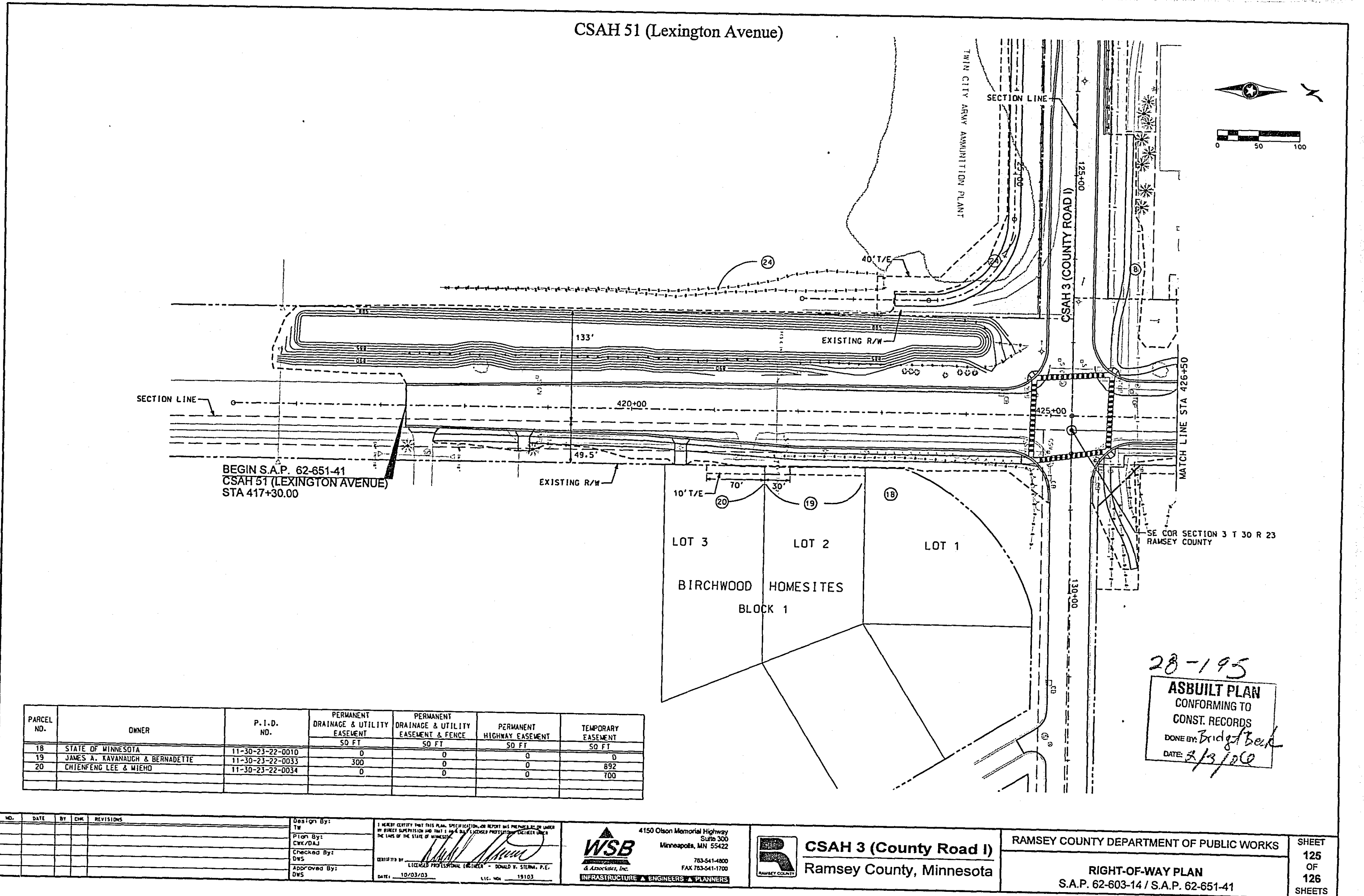
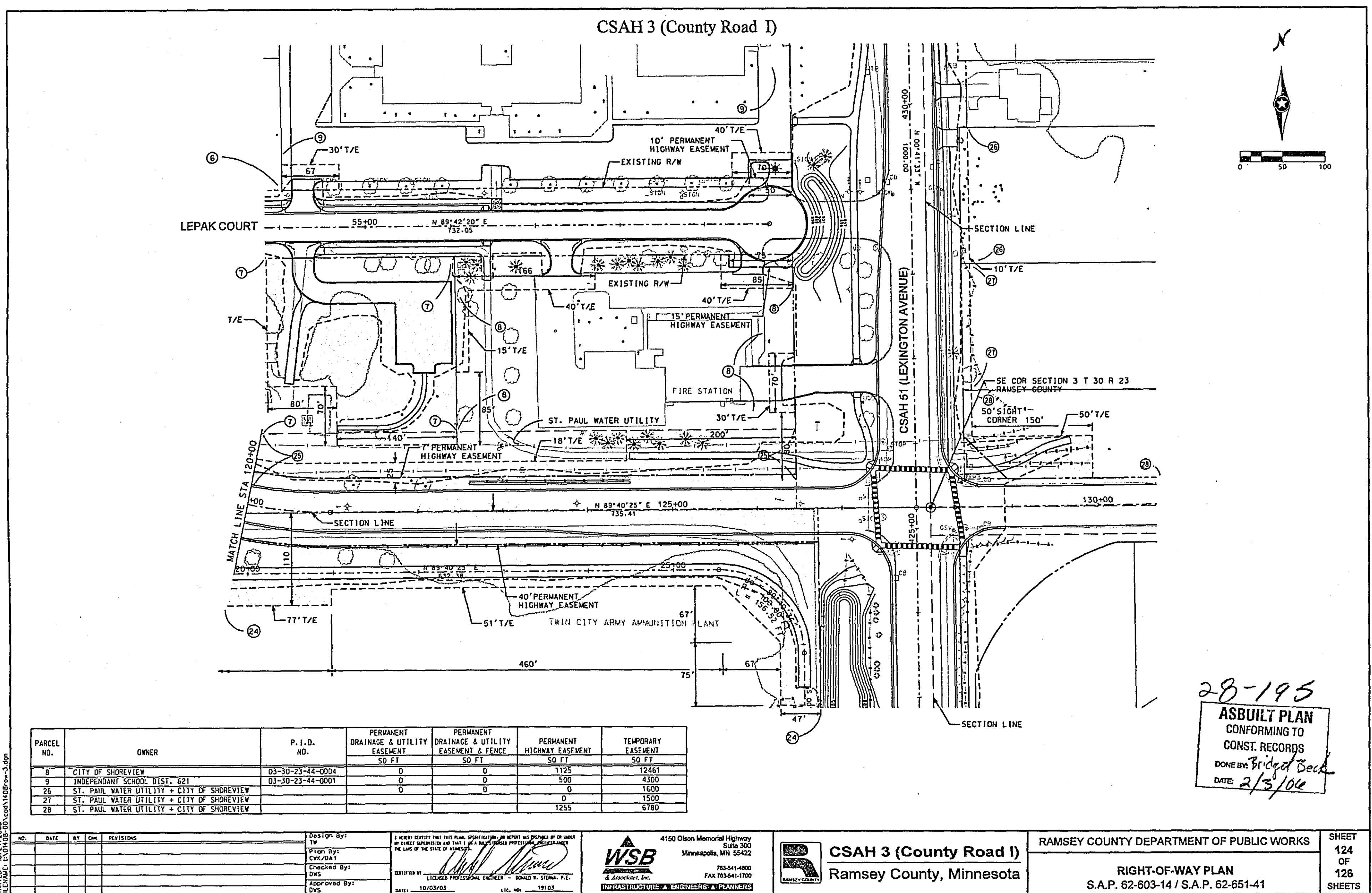
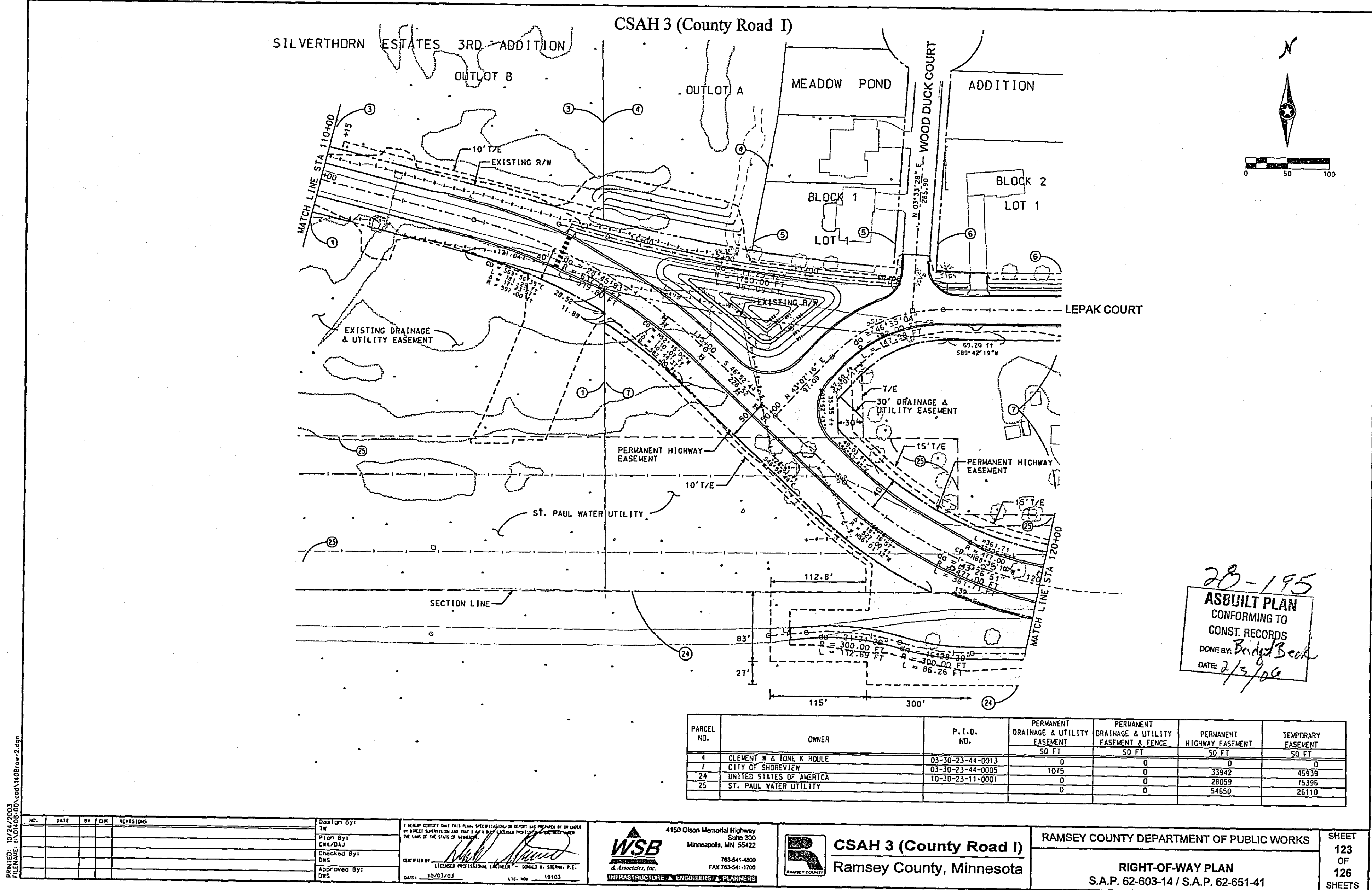
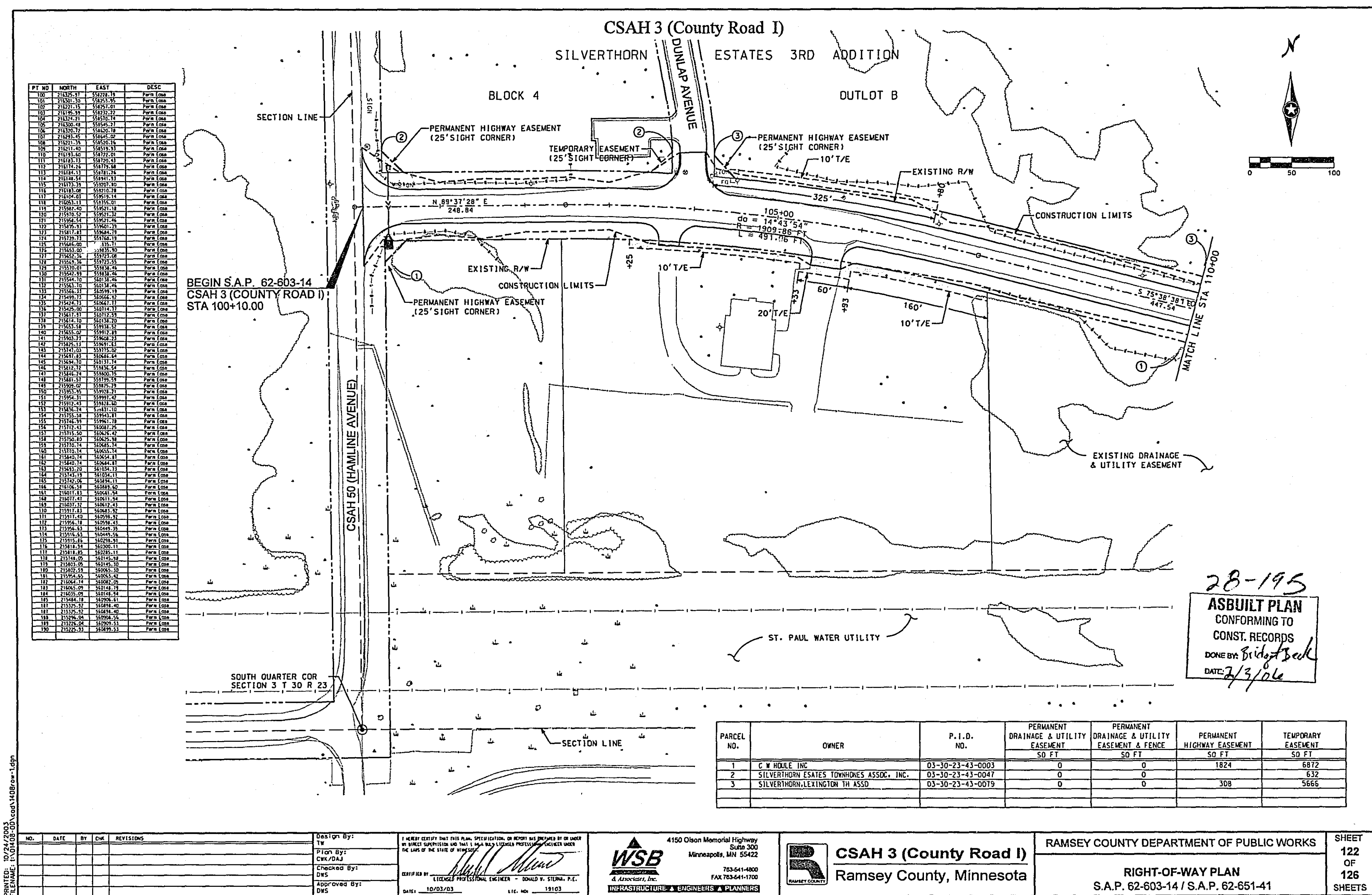




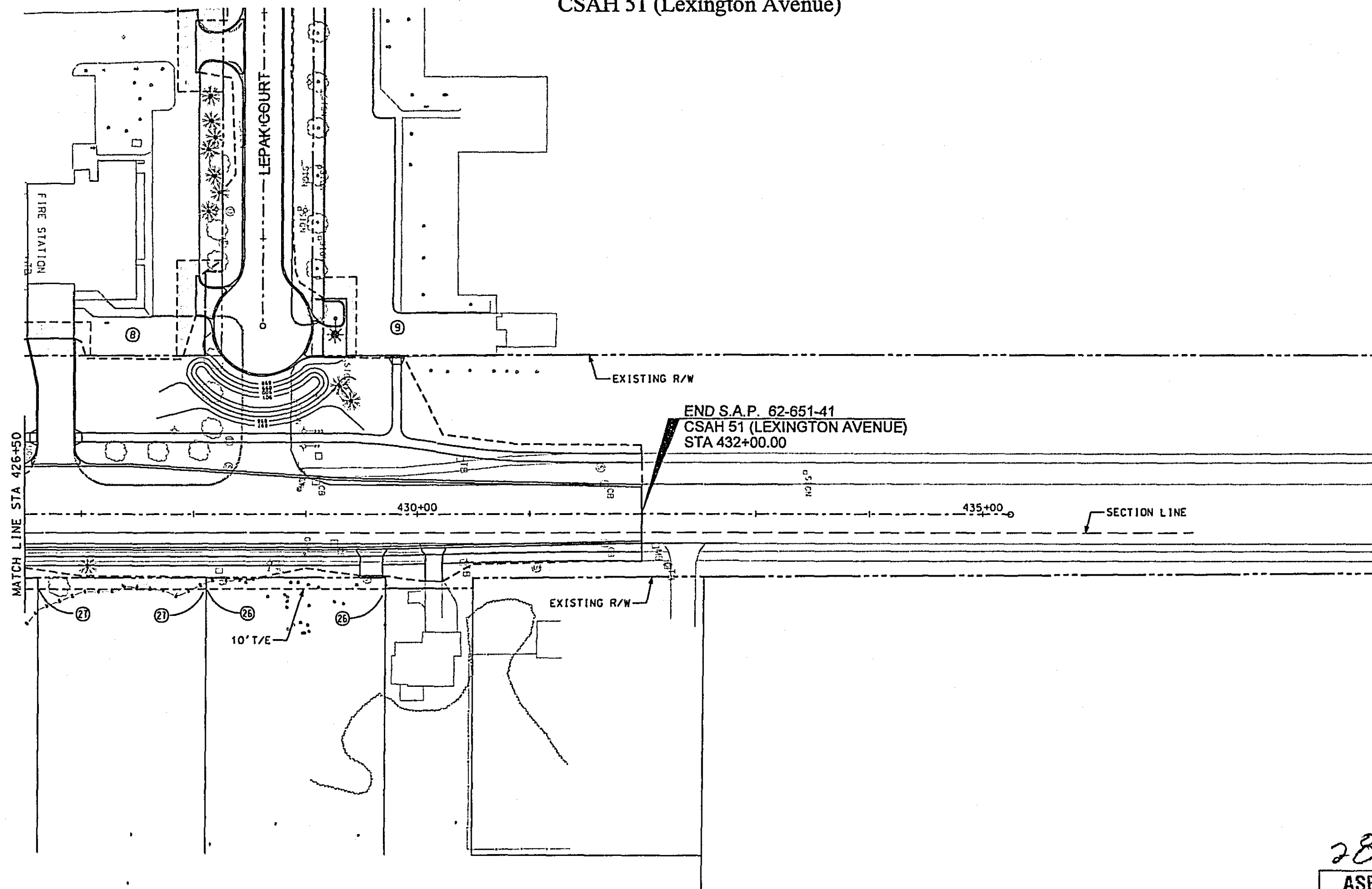
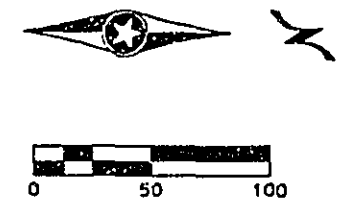








CSAH 51 (Lexington Avenue)



28-195
ASBUILT PLAN
 CONFORMING TO
 CONST. RECORDS
 DONE BY: *Bridget Beck*
 DATE: *2/3/06*

PRINTED: 10/24/2003
 FILENAME: U:\G1408-00\cad\1408row-5.dgn

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