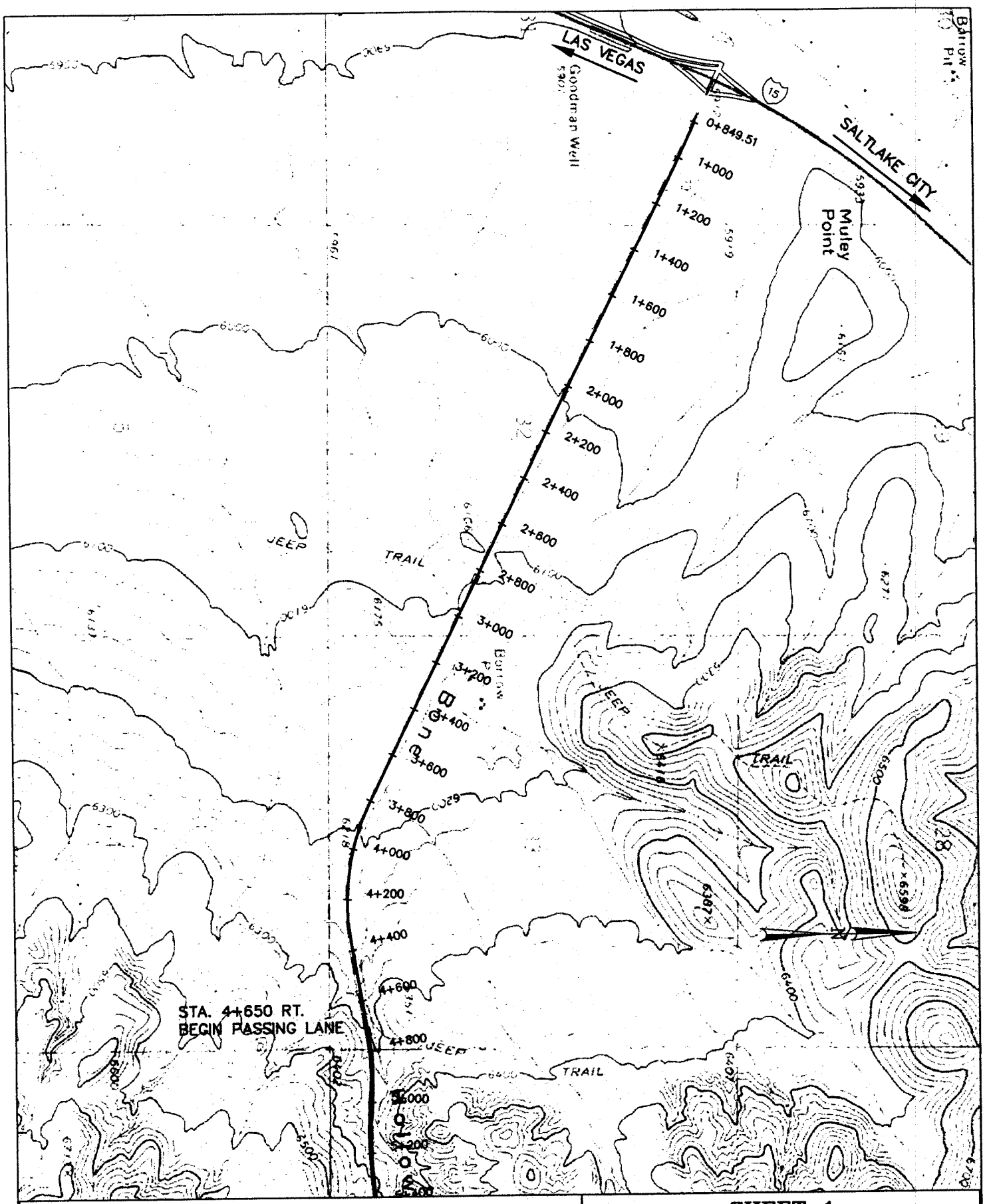
SR-20 WETLAND IMPACTS

Station to Station		Left or Right	Area (m2)	Volume (yd3)
21+590	21+650	LT	230.23	315.1
21+620	21+660	RT	263.17	357.2
21+790	21+835	RT	144.91	112.7
21+895	21+955	LT	217	119.2
22+005	22+170	LT	527.6	185.9
22+115	22+125	RT	20.56	3.2
22+170		RT	21.56	15.8
22+335	22+415	RT	795.95	820.3
22+435	22+440	RT	8.81	0.9
22+455	22+475	RT	10.66	315.1
22+700	23+025	RT	2711.92	3168.8
22+830	22+980	LT	543.3	255.3
23+150	23+310	LT	698.54	743.9
23+330	23+340	RT	9.4	6
27+190		RT	11.05	32.1
28+460		RT	29	18.7
		Total:	**6243.66**	**6470.2**
			(1.55 acres)	

SR-20 WETLANDS SAVED FROM GRAZING BY MOVING ROW FENCE

Station to Station		Left or Right	Area (m2)
21+548		LT	5.69
21+557		LT	0.61
21+560	21+600	LT	253.08
21+637	21+700	RT	423.73
21+774	21+875	RT	1059.1
21+863	21+960	LT	1312.22
		Total:	**3054.43**
			(.755 acres)

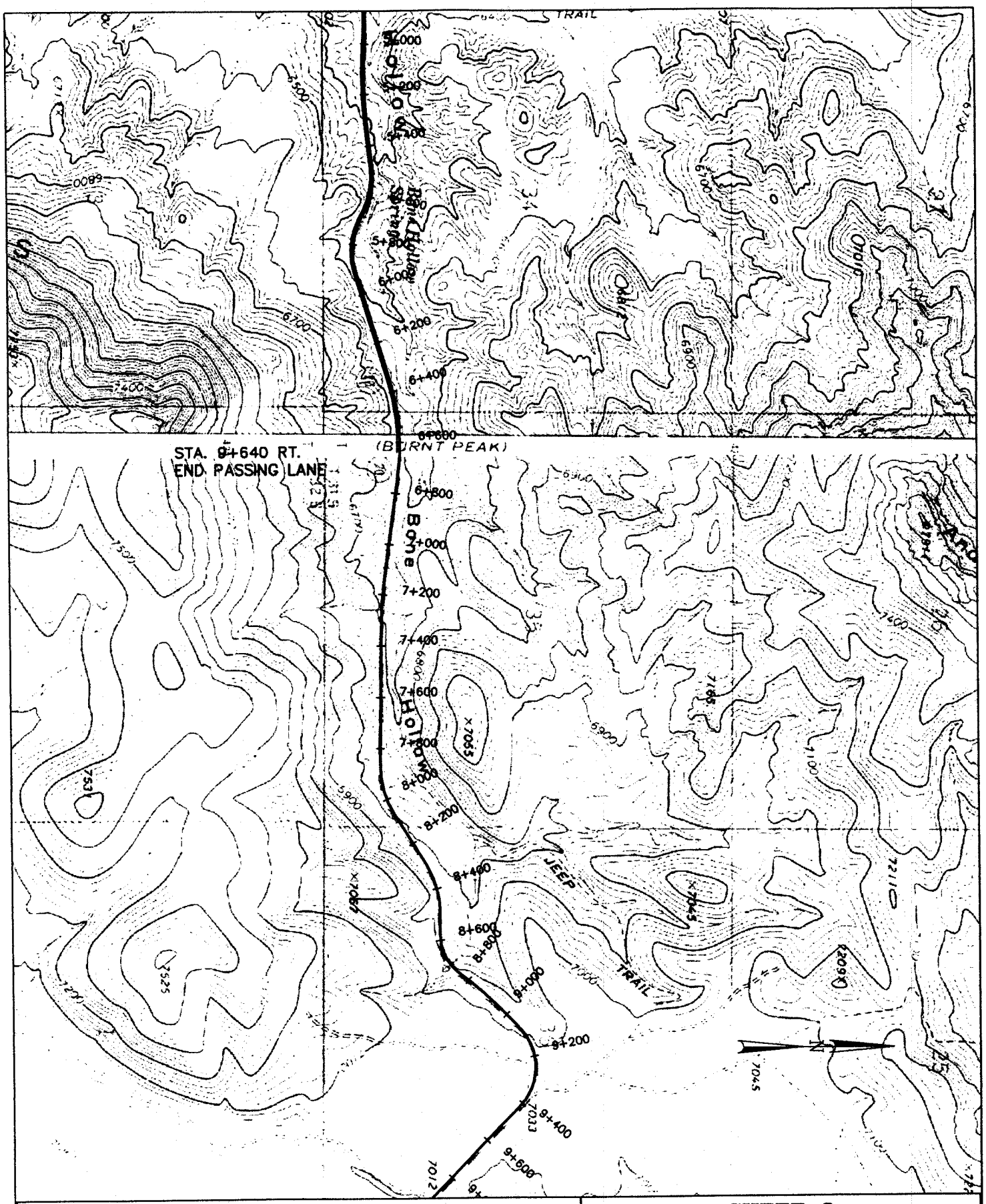


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 1

SR-20

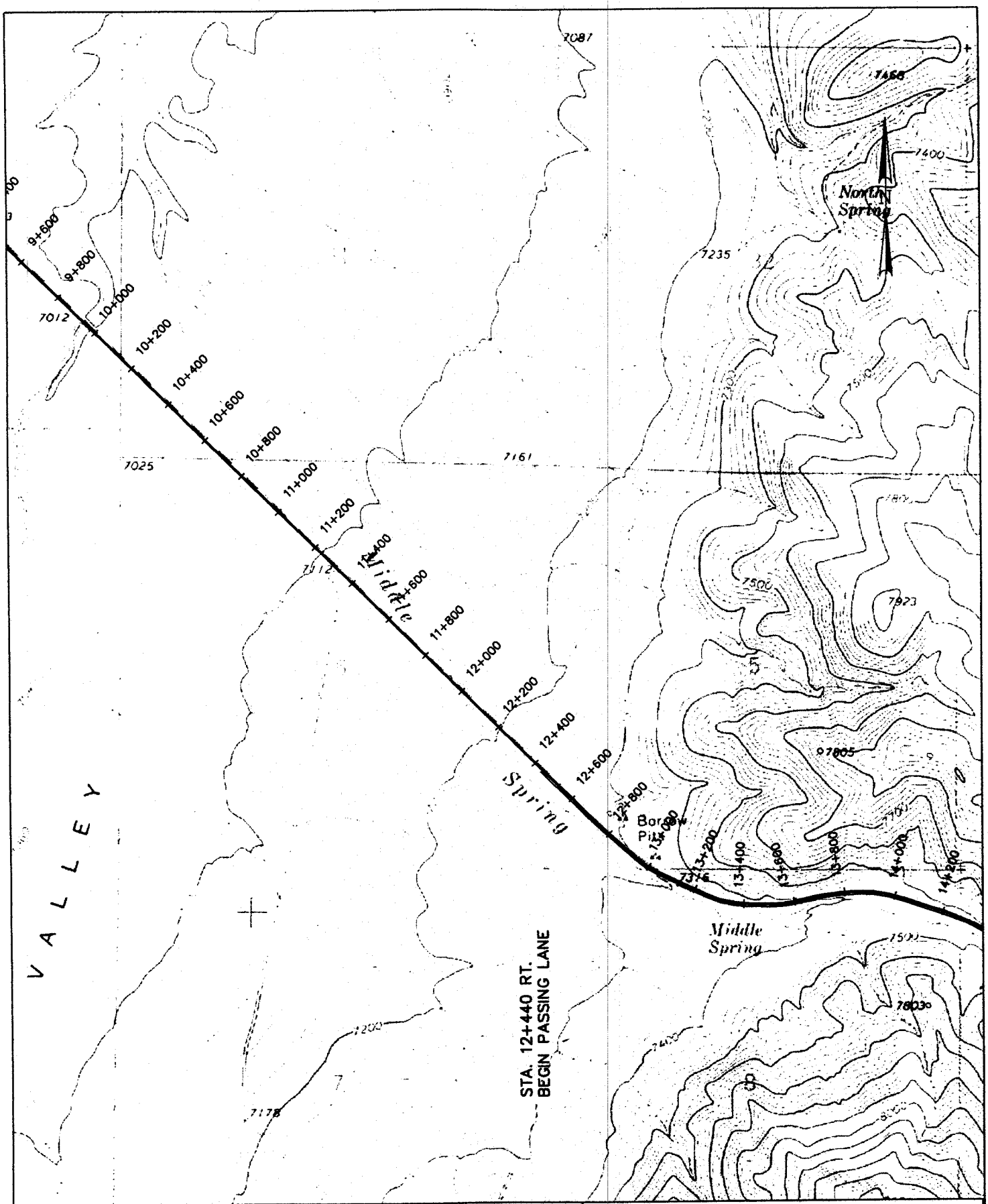
SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exibit



Jones & DeMille Engineering

1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 2		
SR-20		
SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exibit

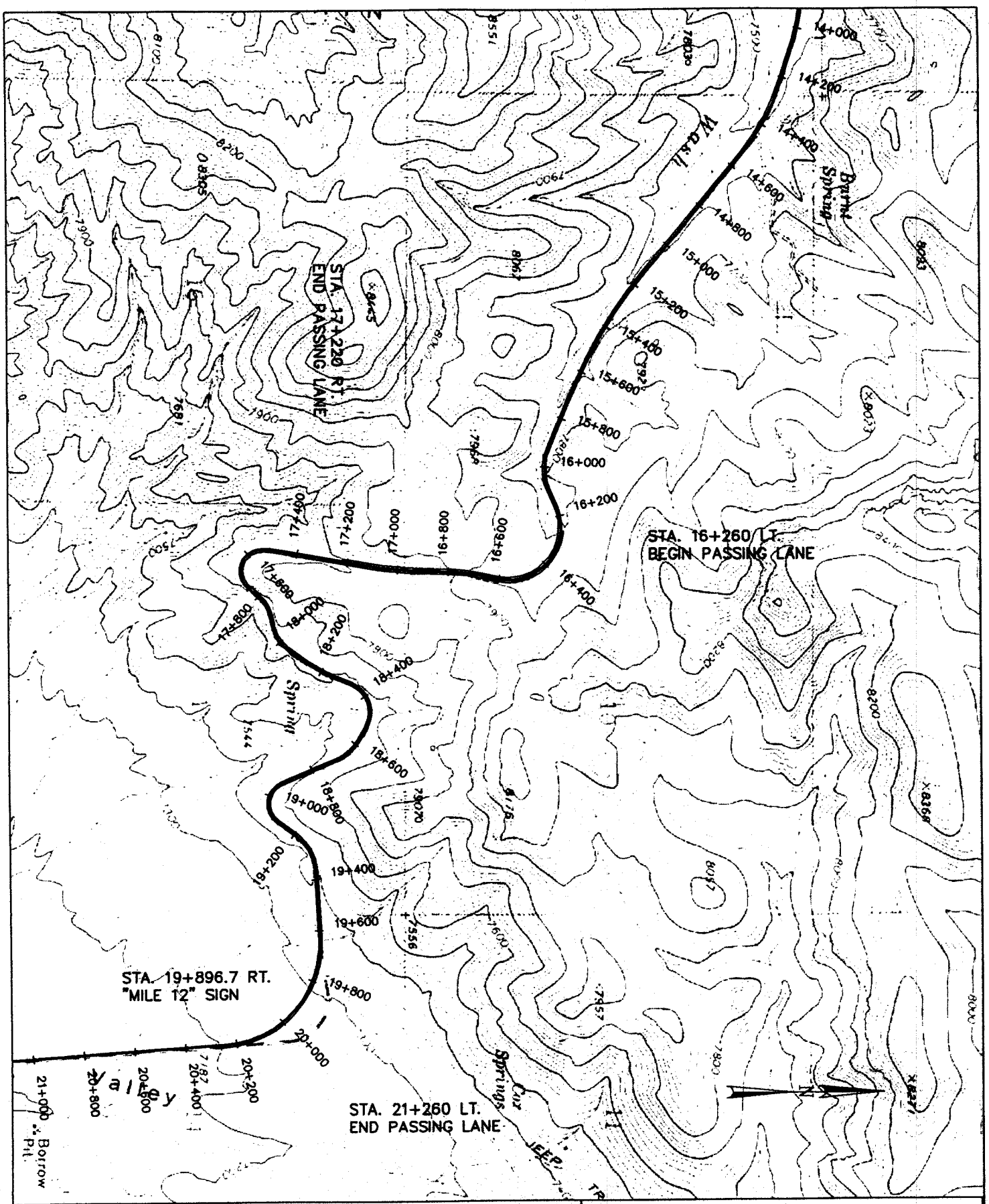


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 3

SR-20

SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exibit

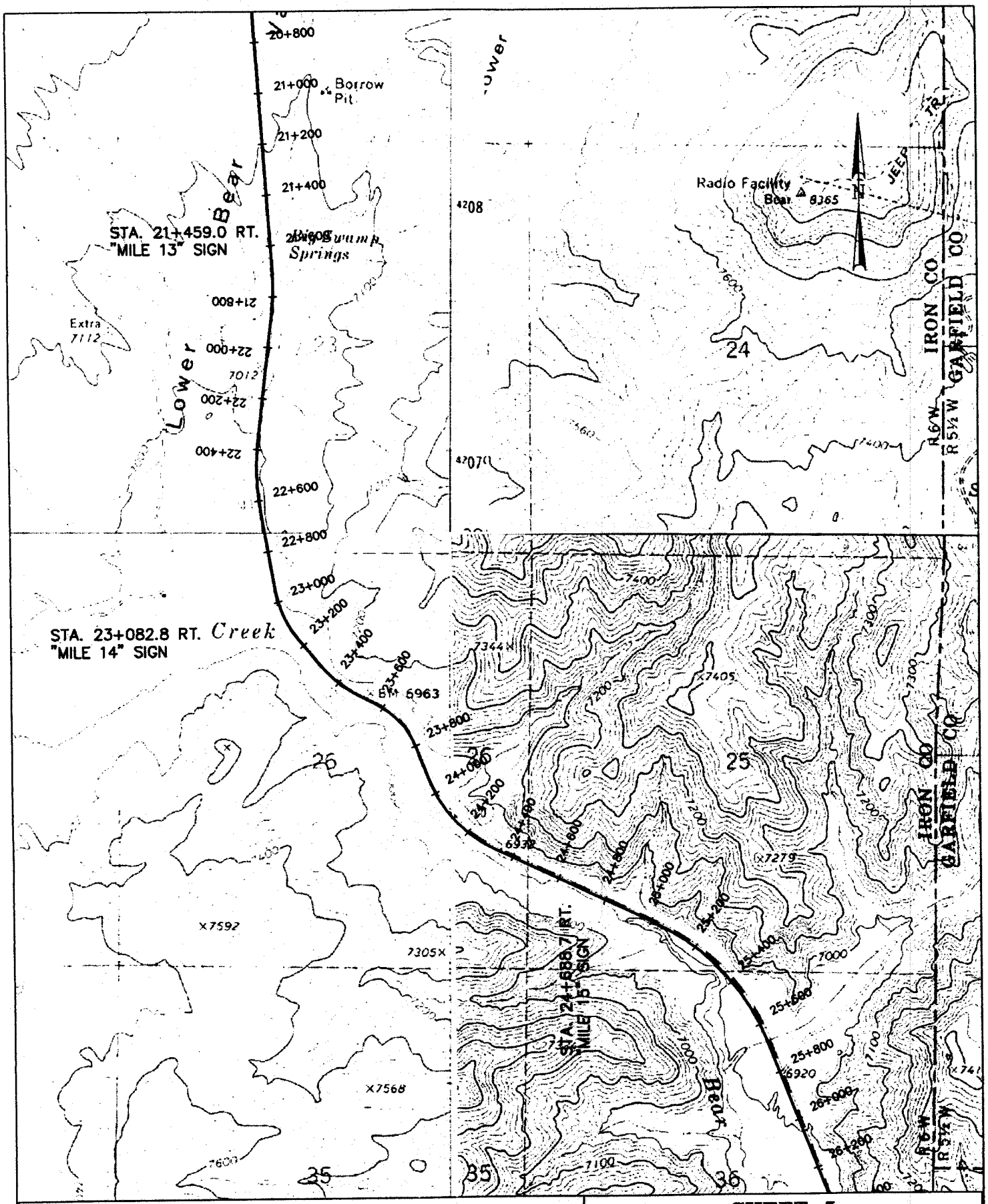


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 4

SR-20

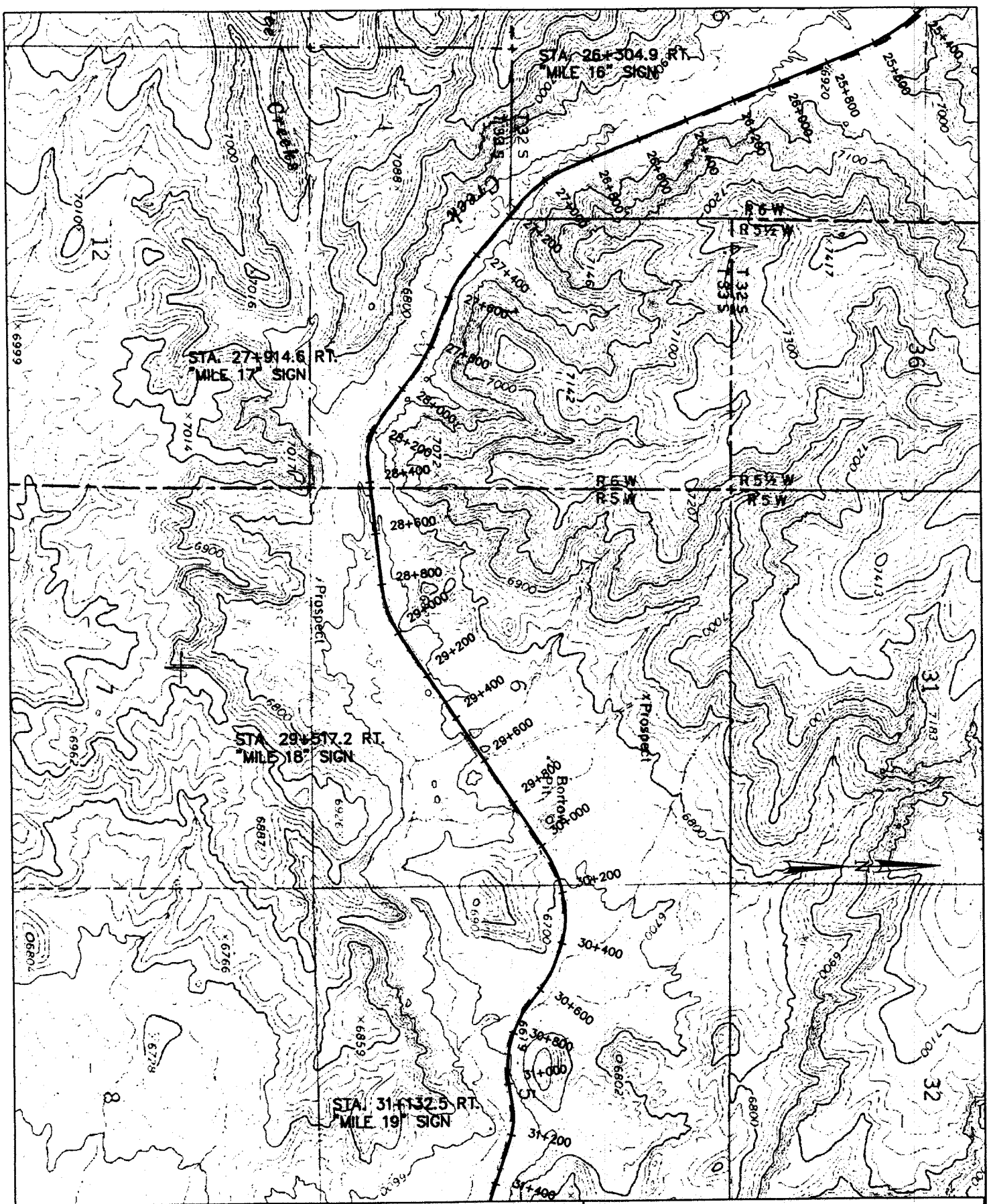
SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exibit



Jones & DeMille Engineering

1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 5		
SR-20		
SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exhbit

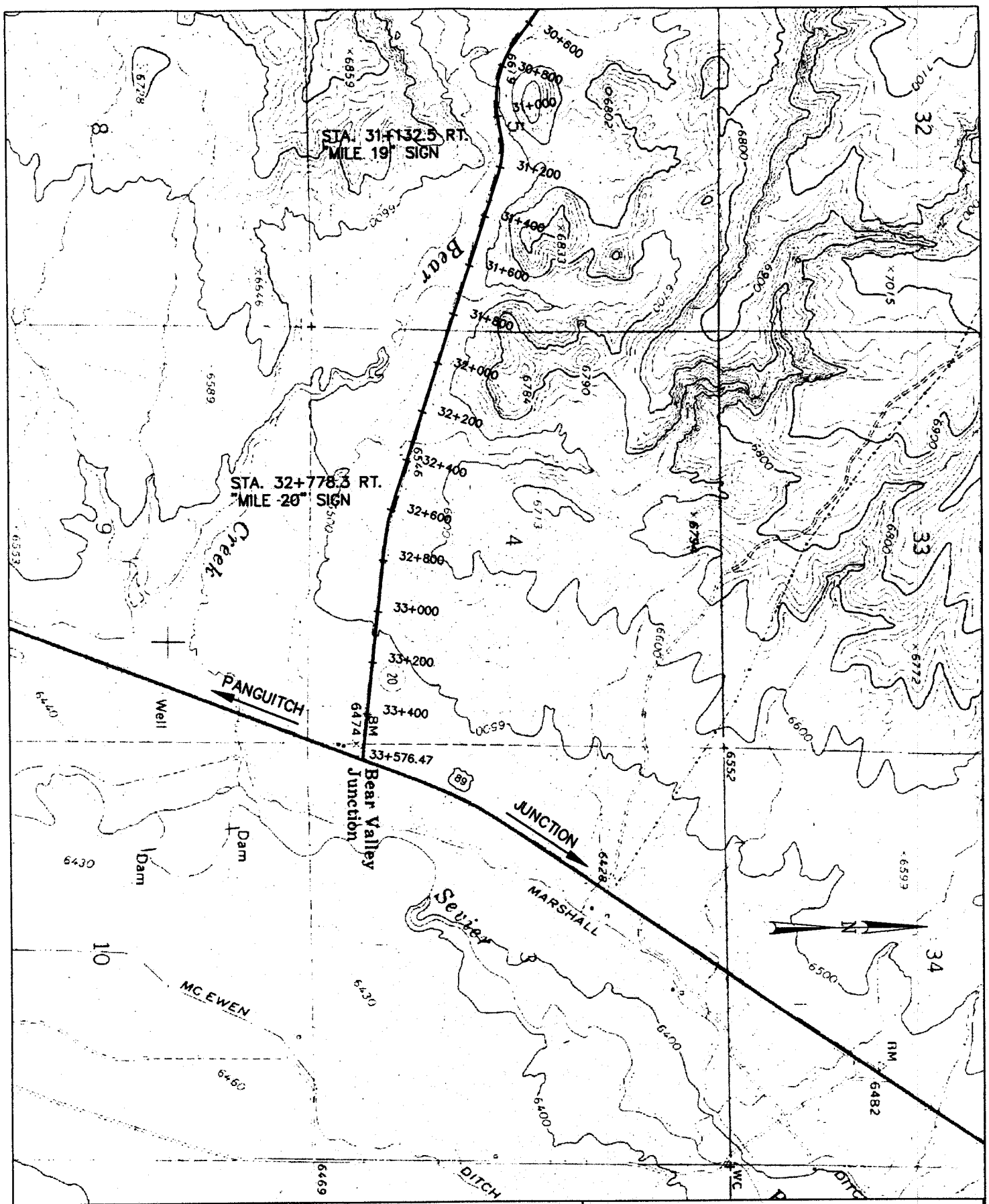


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 6

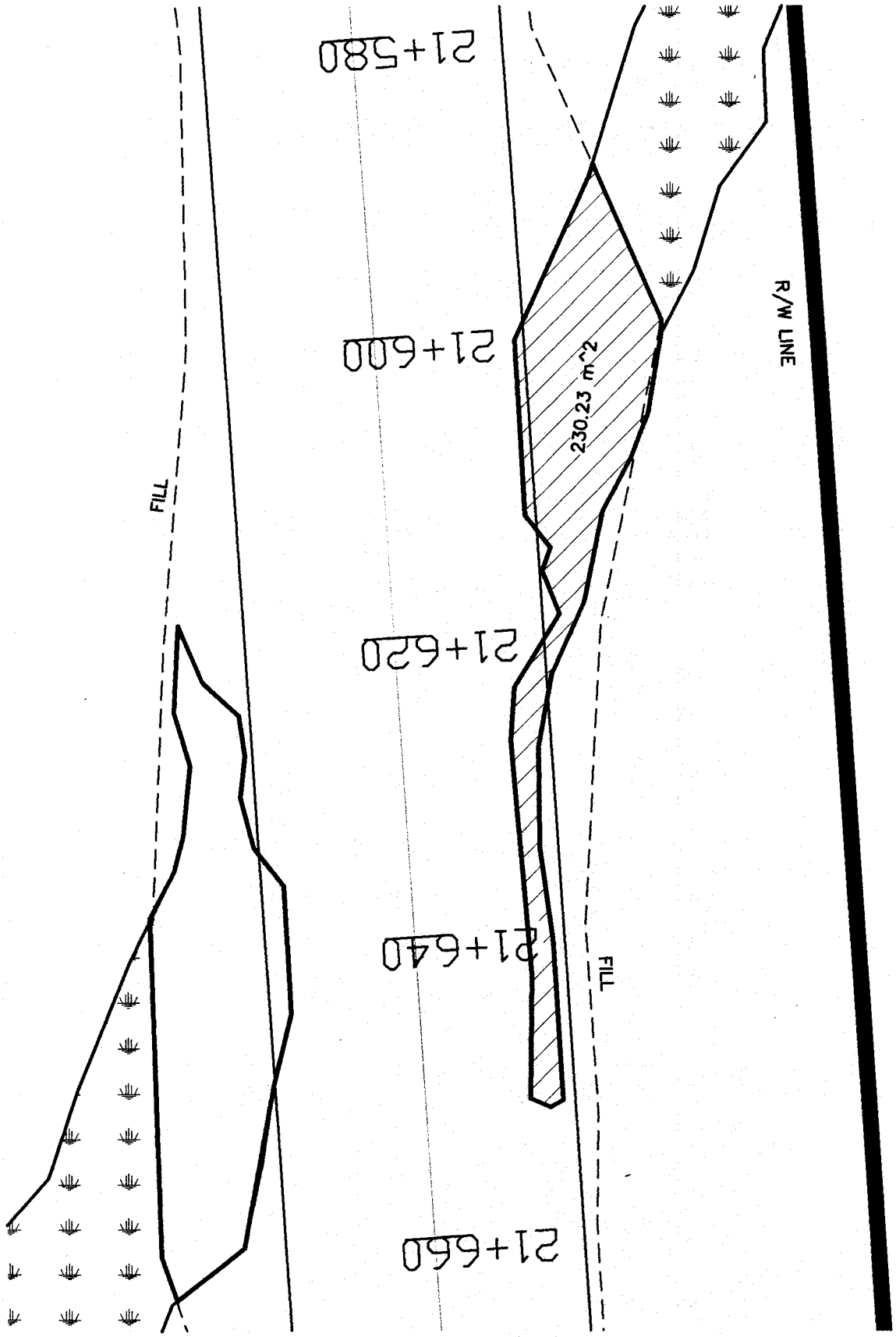
SR-20

SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exibit



Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

SHEET 7		
SR-20		
SCALE: 1:20,000	ENG.: K.M.	PROJ.#: 0006-010x
DATE: Mar. 2002	DWG.BY: T.R.B.	DWG.NAME: exibit

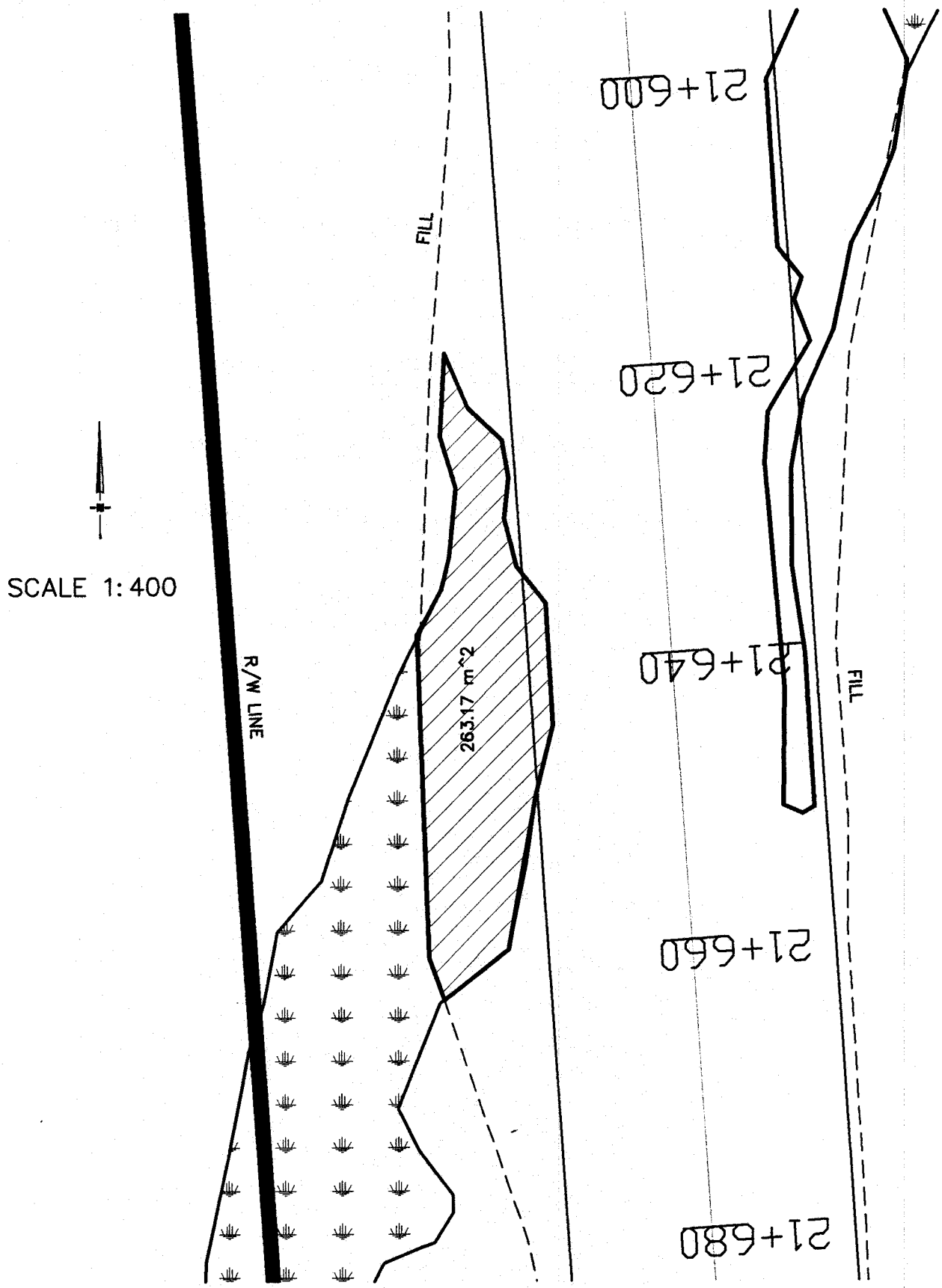


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 21+590 LT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact



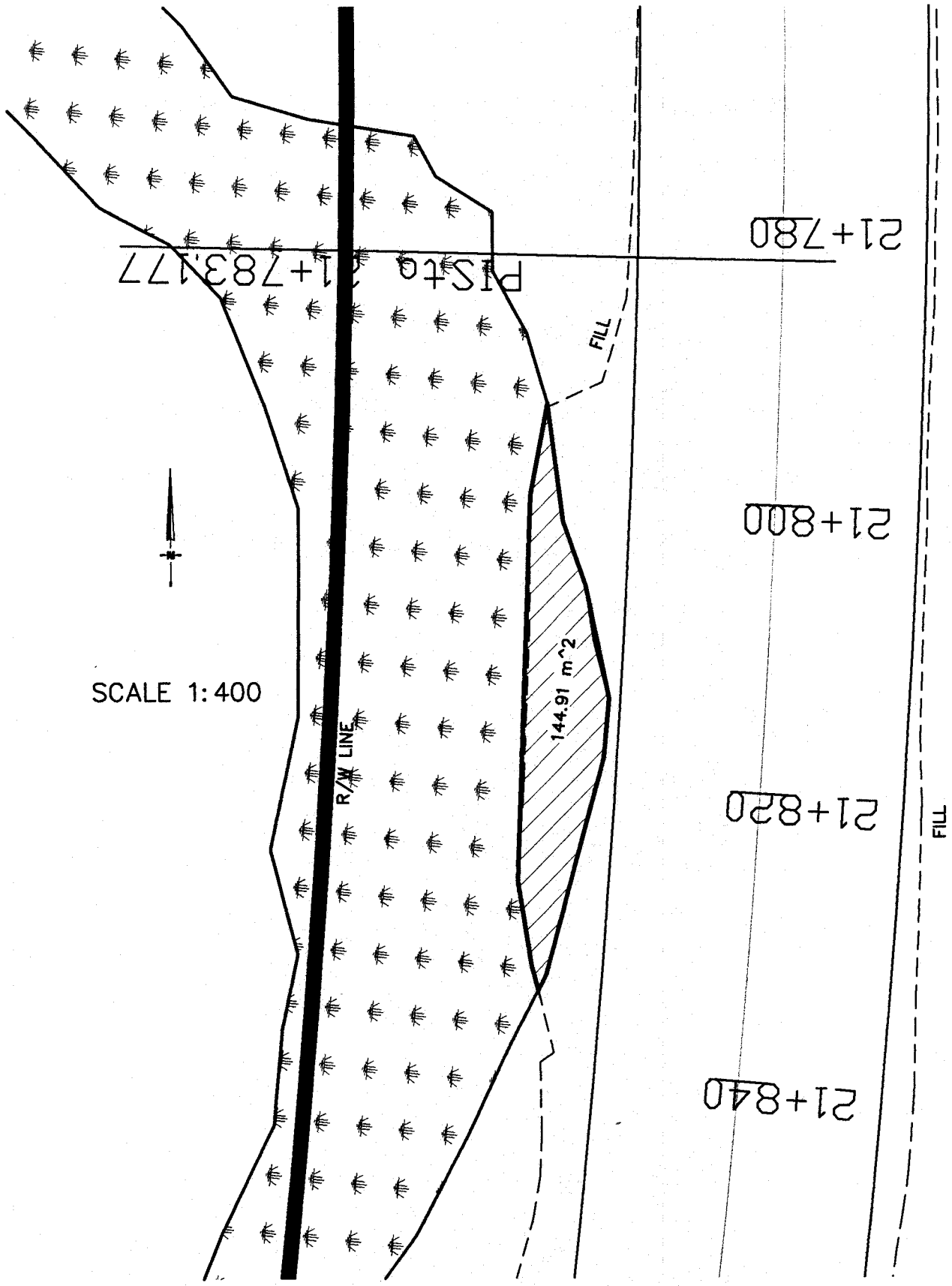
SCALE 1:400

Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 21+620 RT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

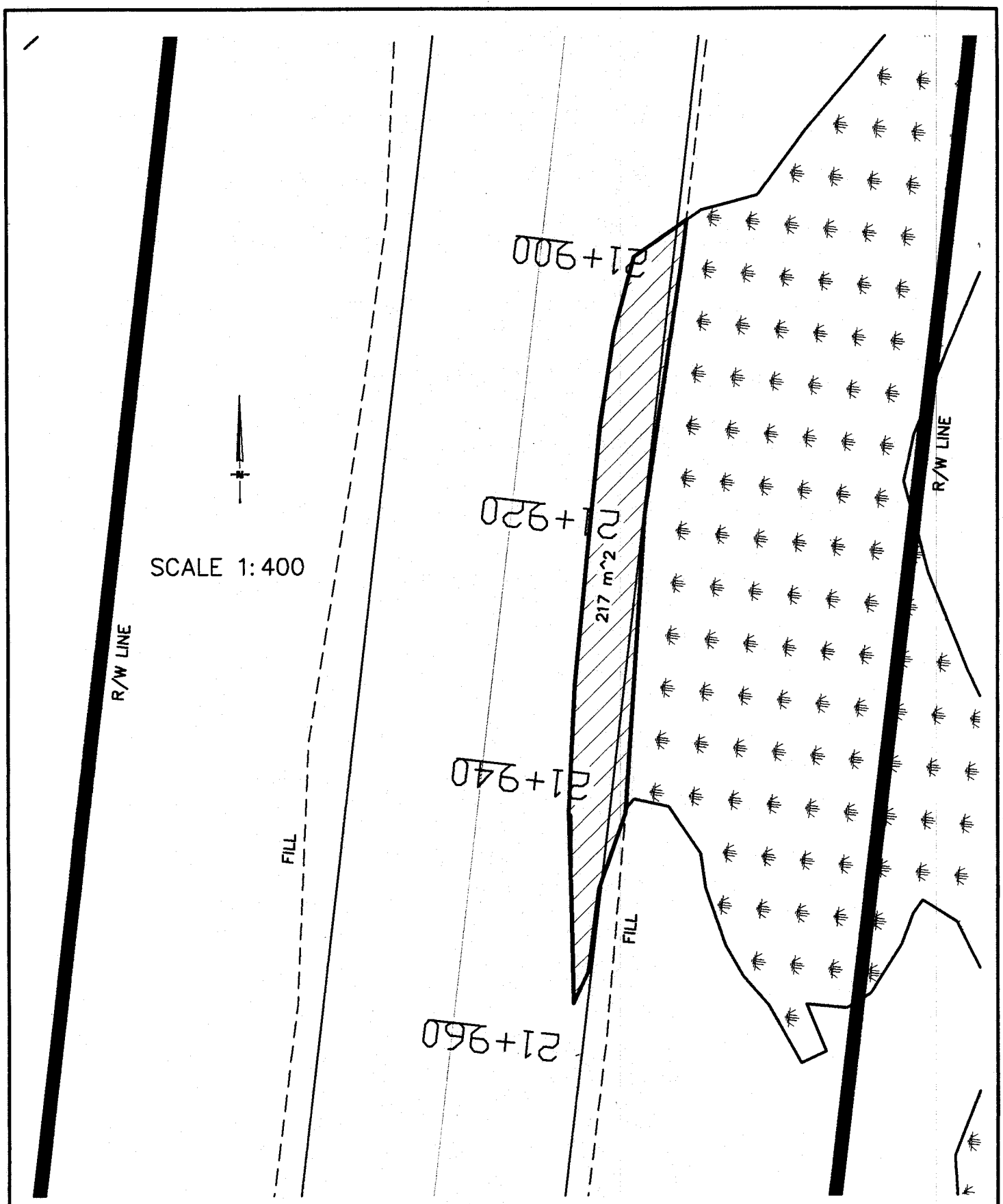


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 21+790 RT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

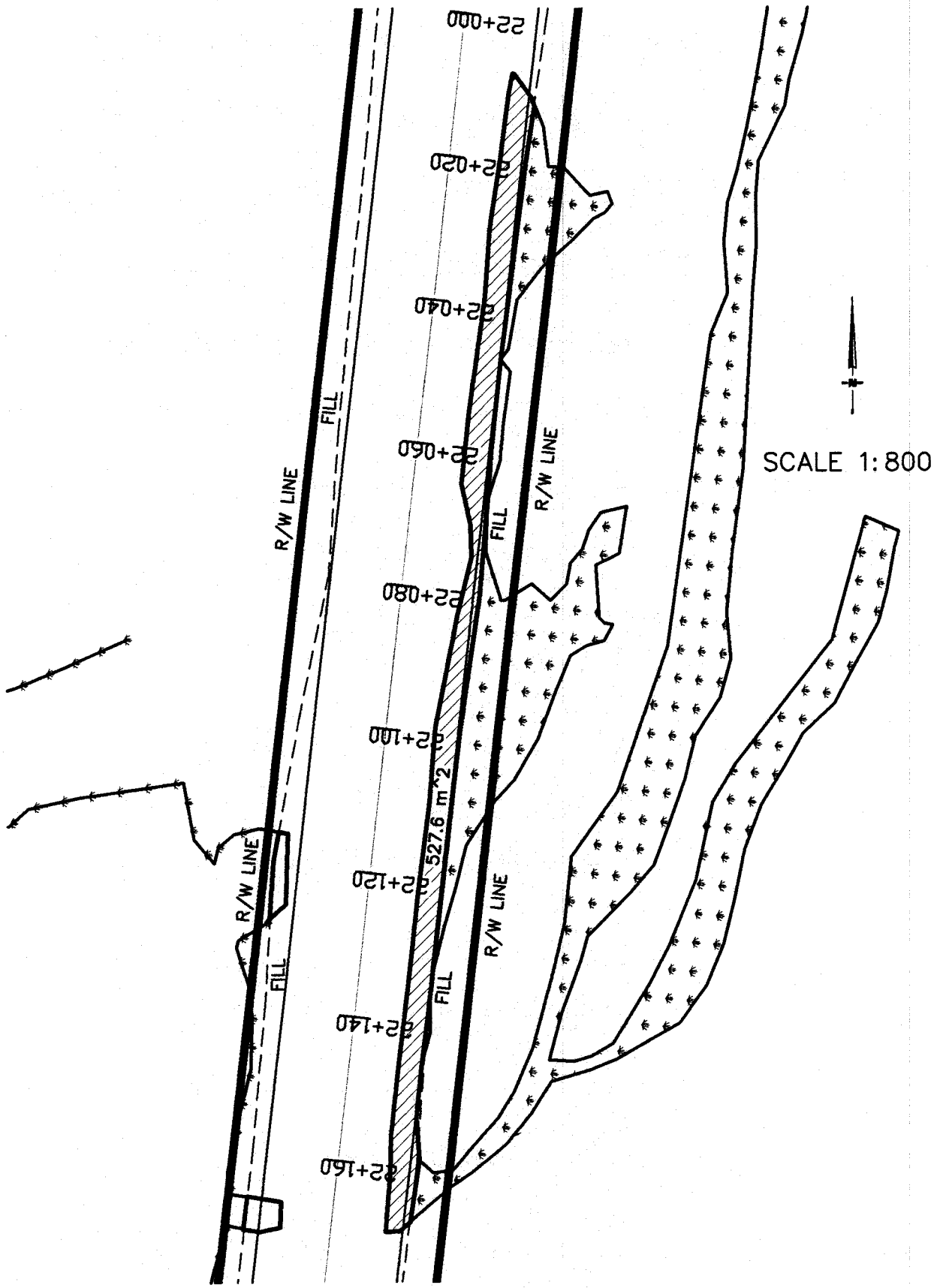


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 21+895 LT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

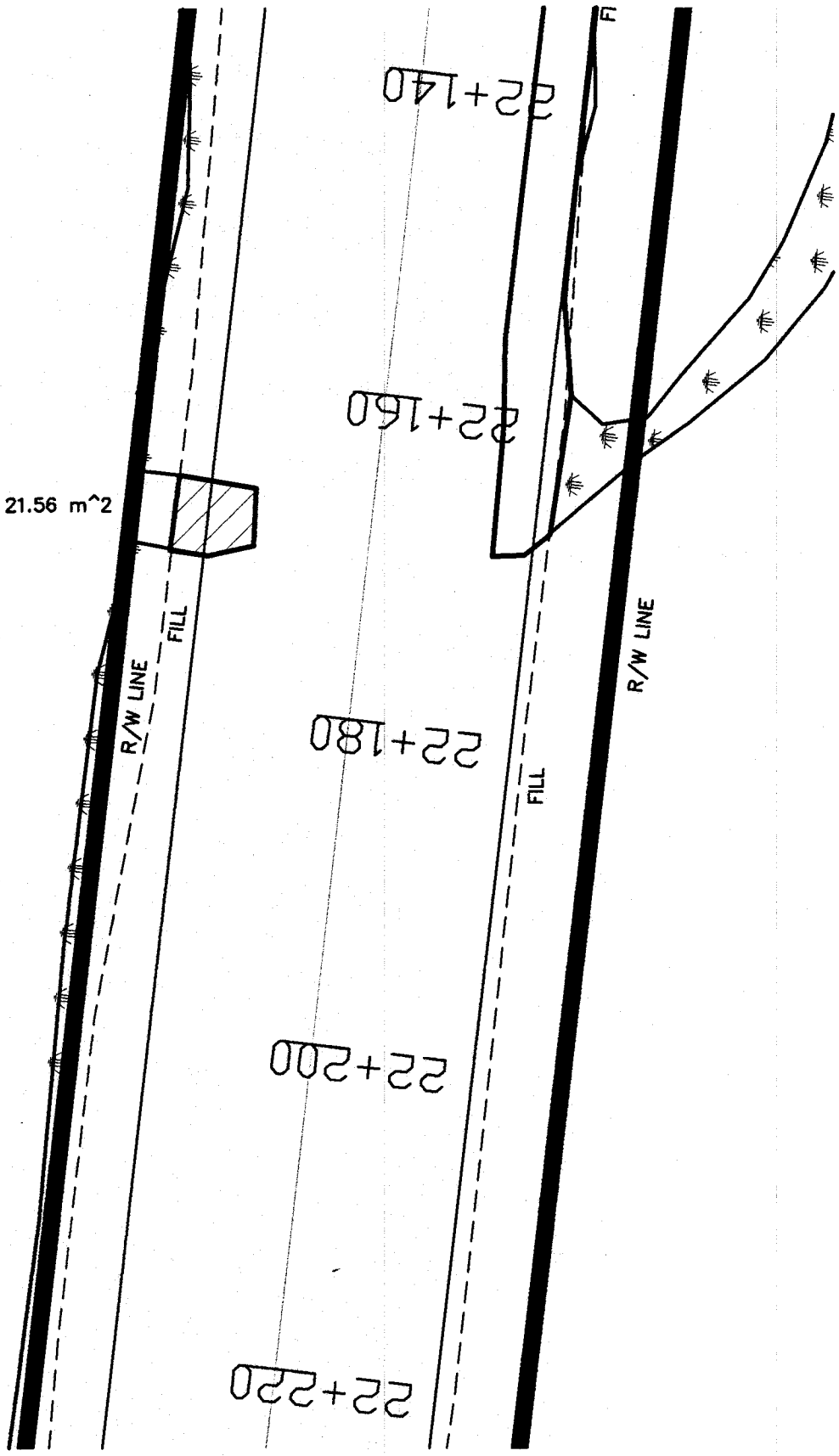


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+005 LT.

SR-20

SCALE: 1:800	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

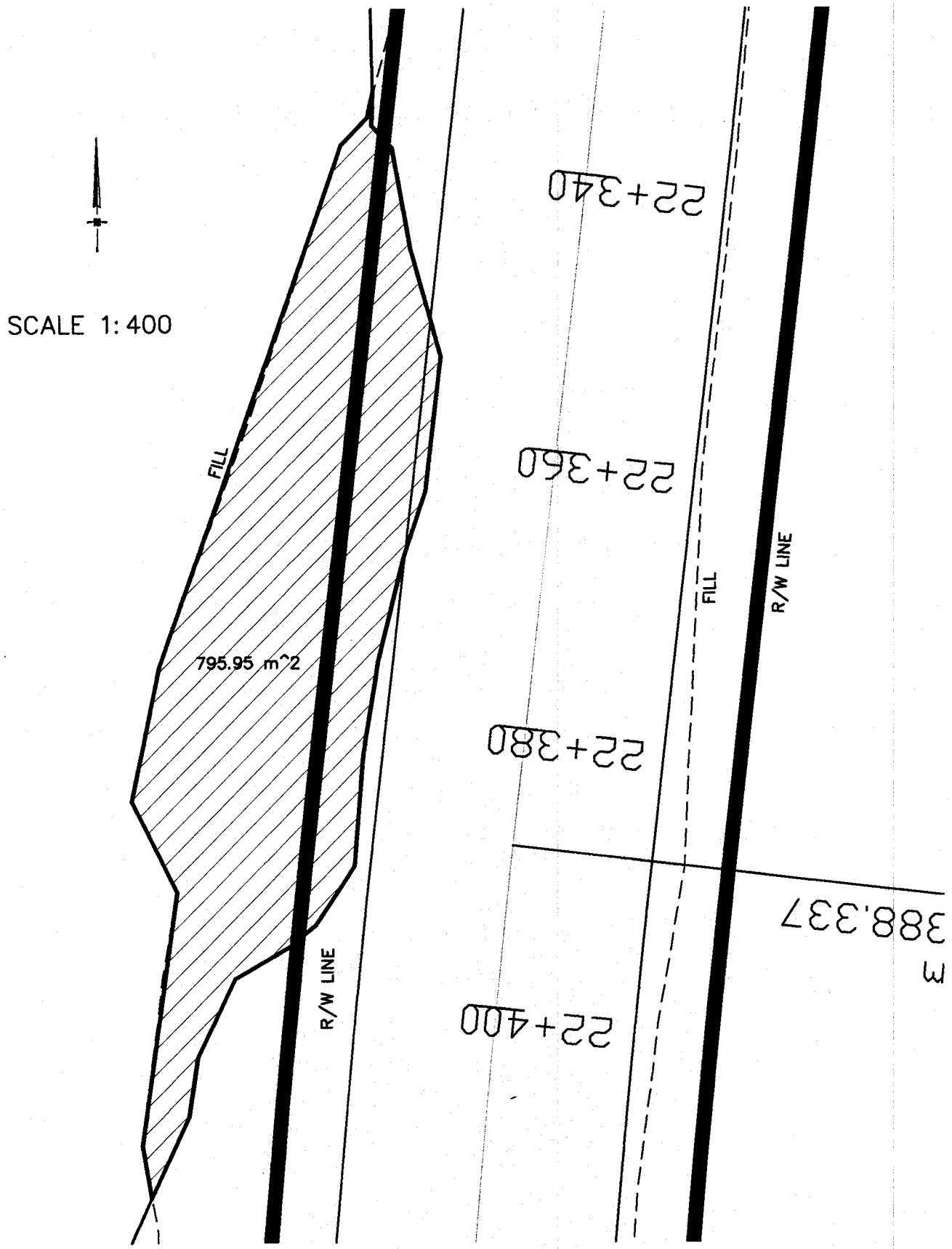


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+170 RT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

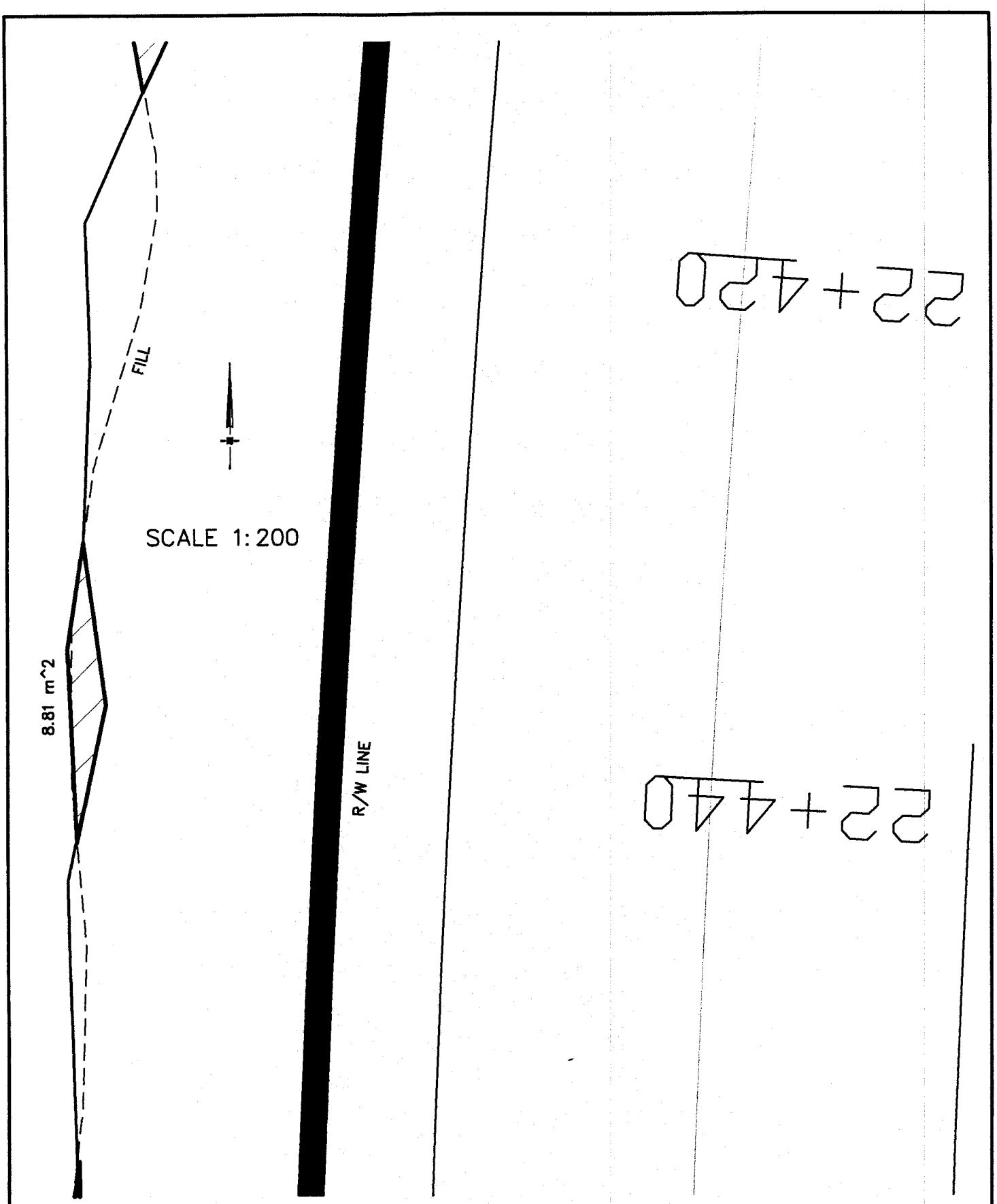


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+335 RT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

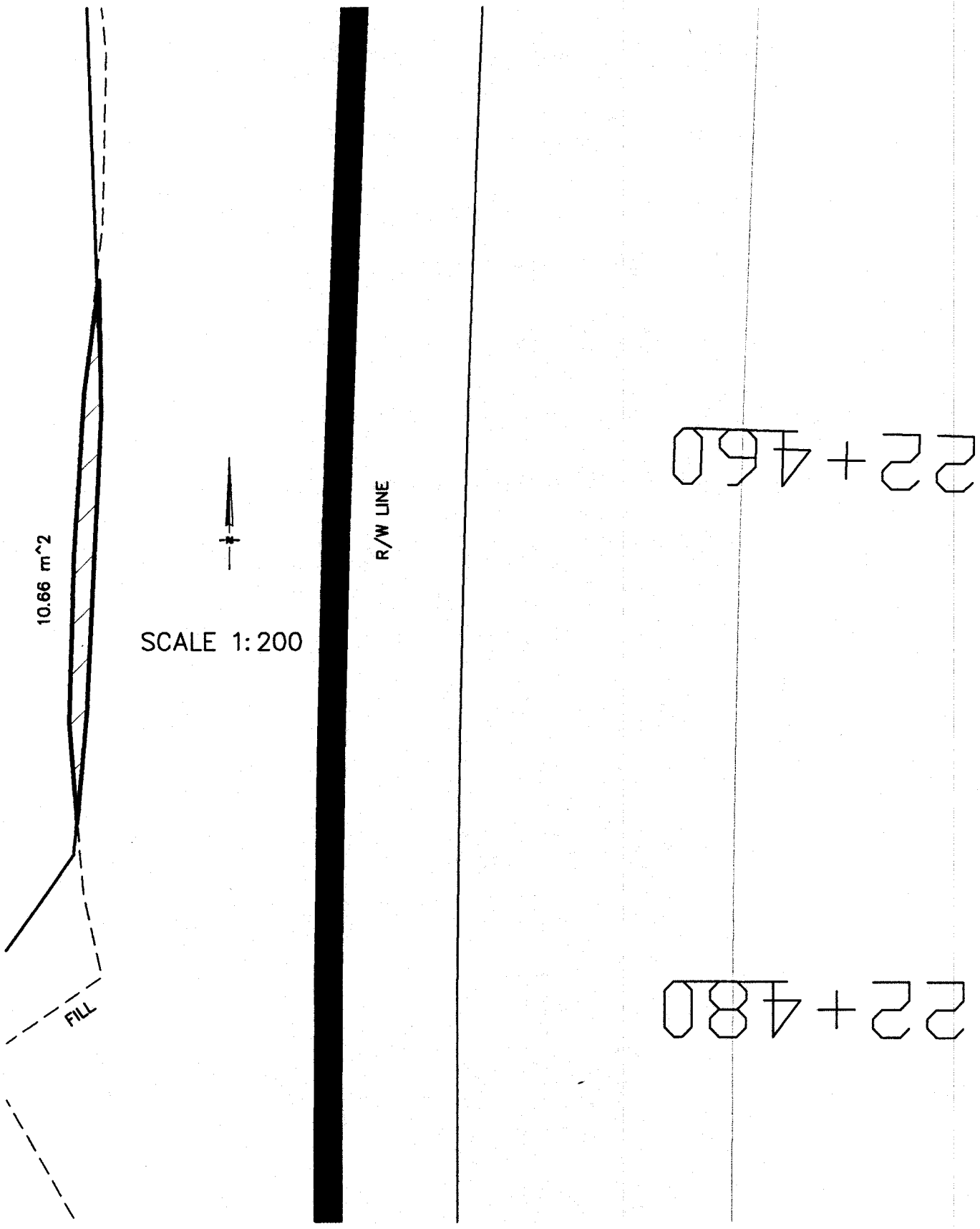


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+435 RT.

SR-20

SCALE: 1:200	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

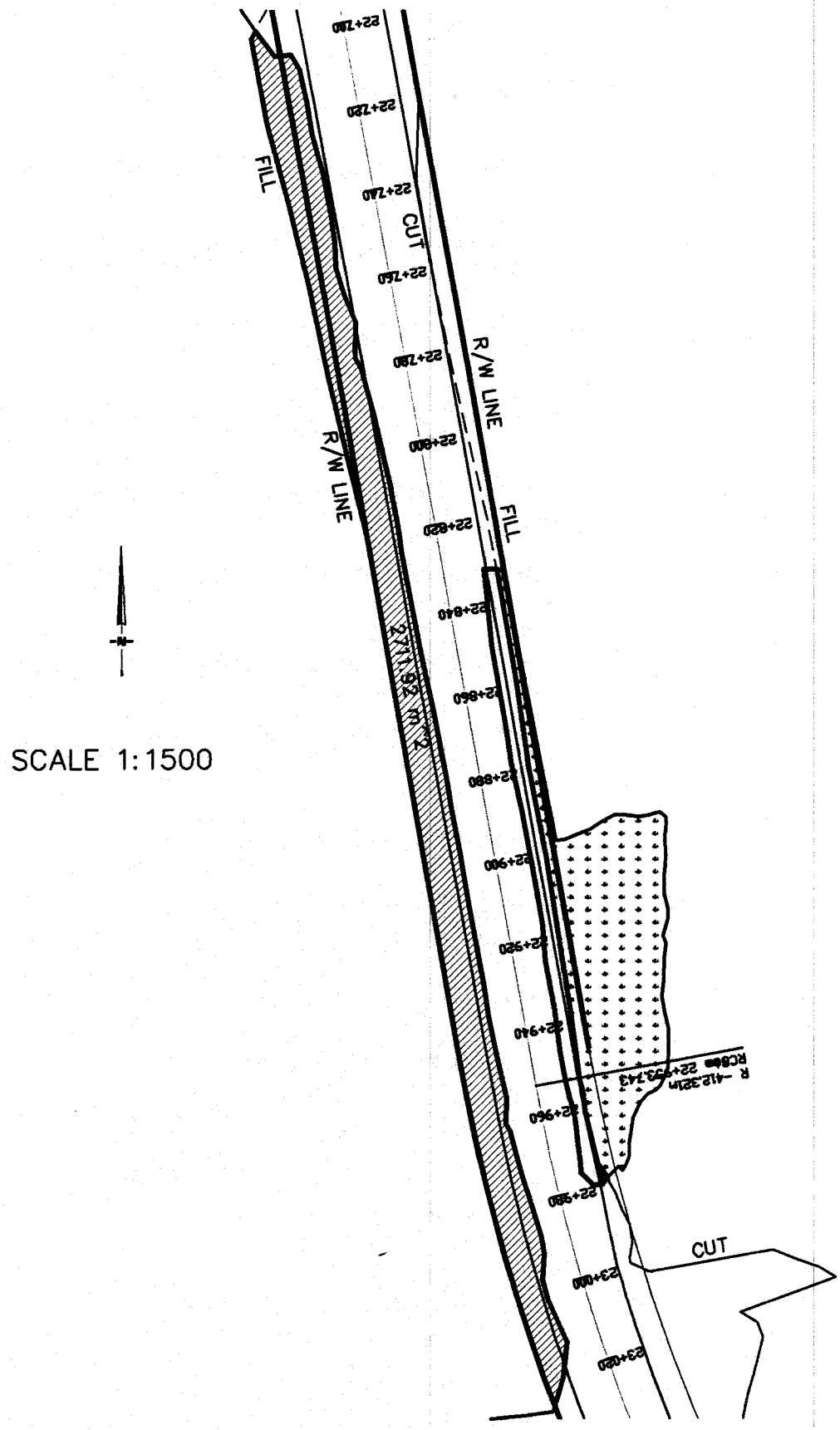


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+455 RT.

SR-20

SCALE: 1:200	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact



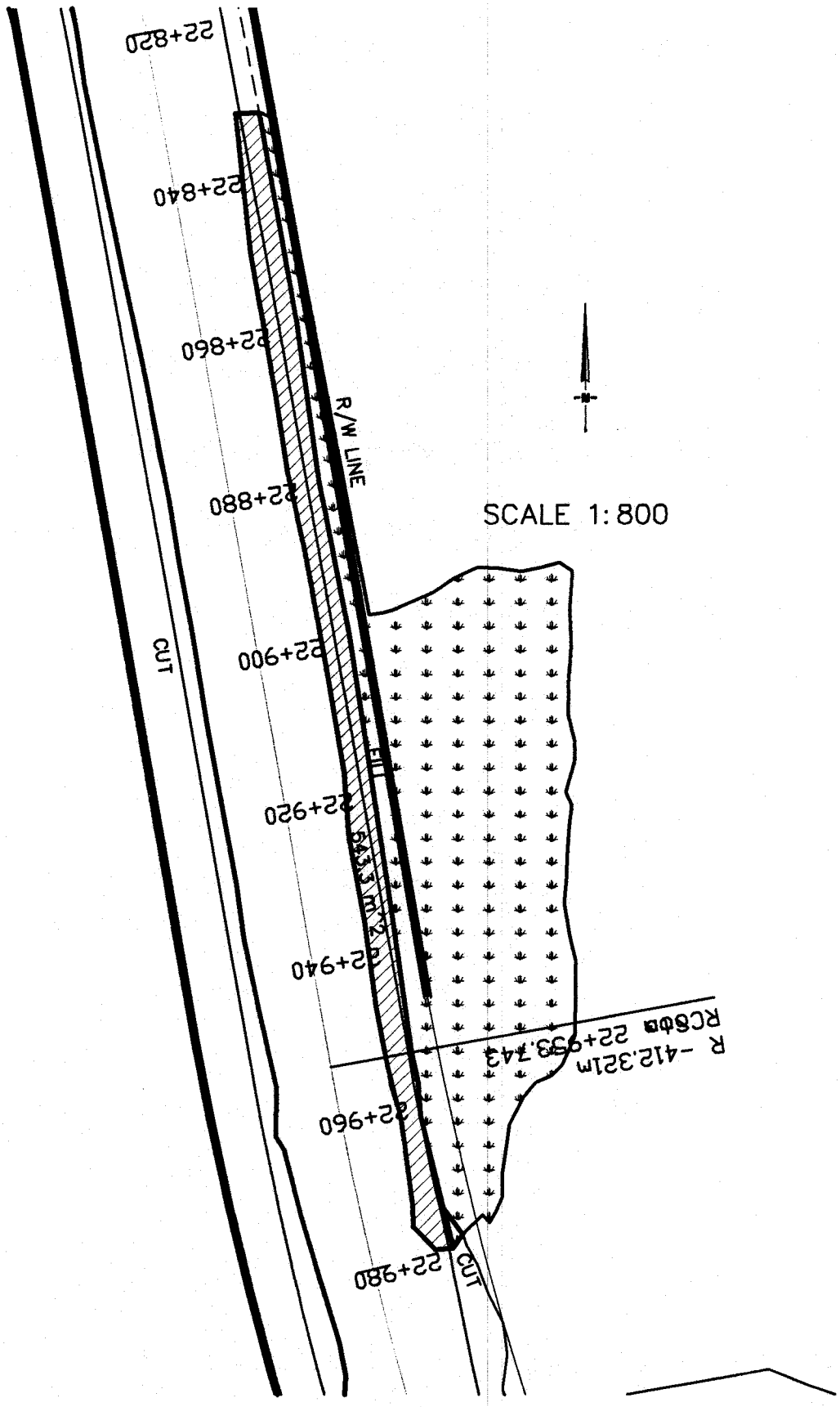
SCALE 1:1500

Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+700 RT.

SR-20

SCALE: 1:1500	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

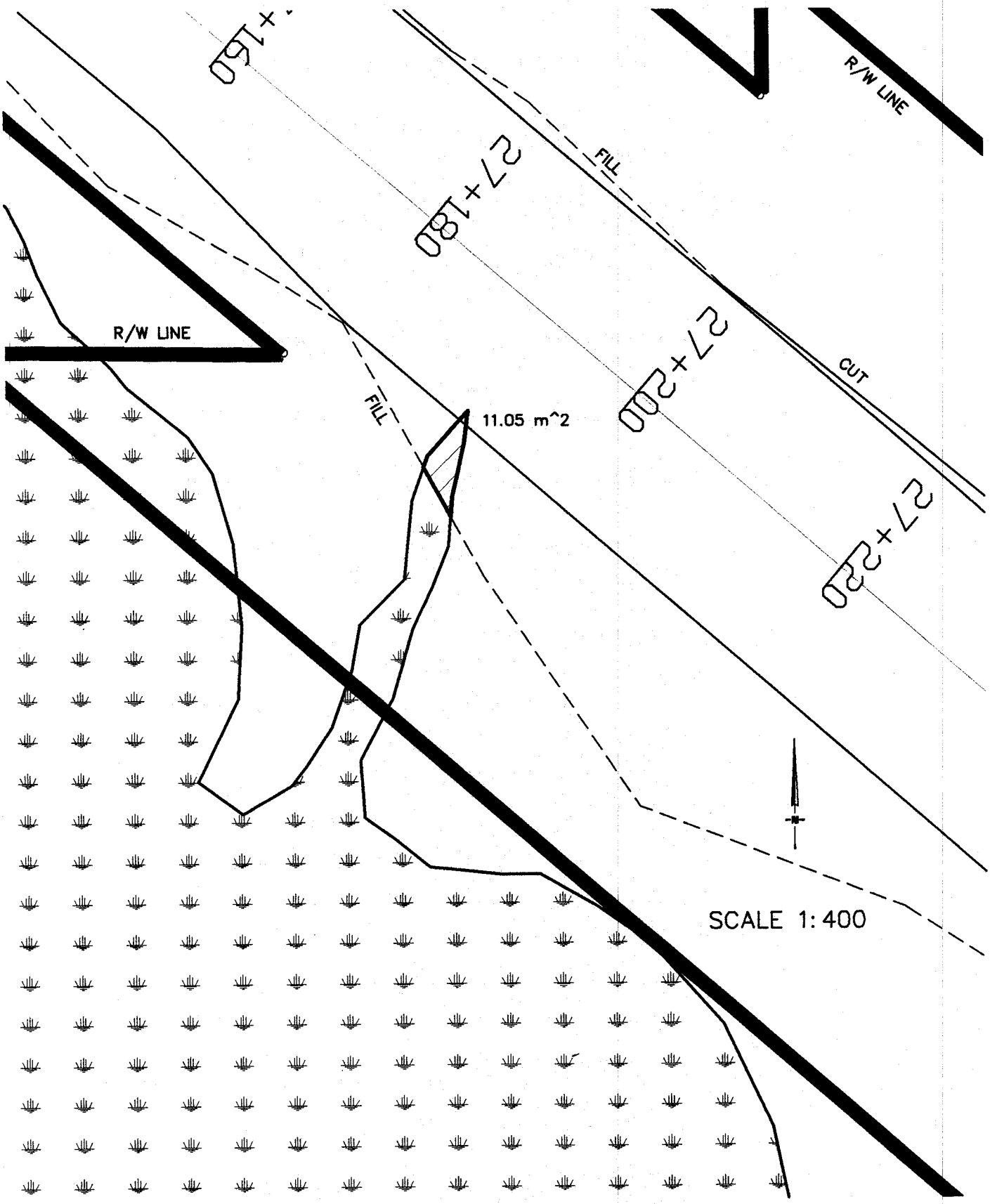


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 22+830 LT.

SR-20

SCALE: 1:800	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

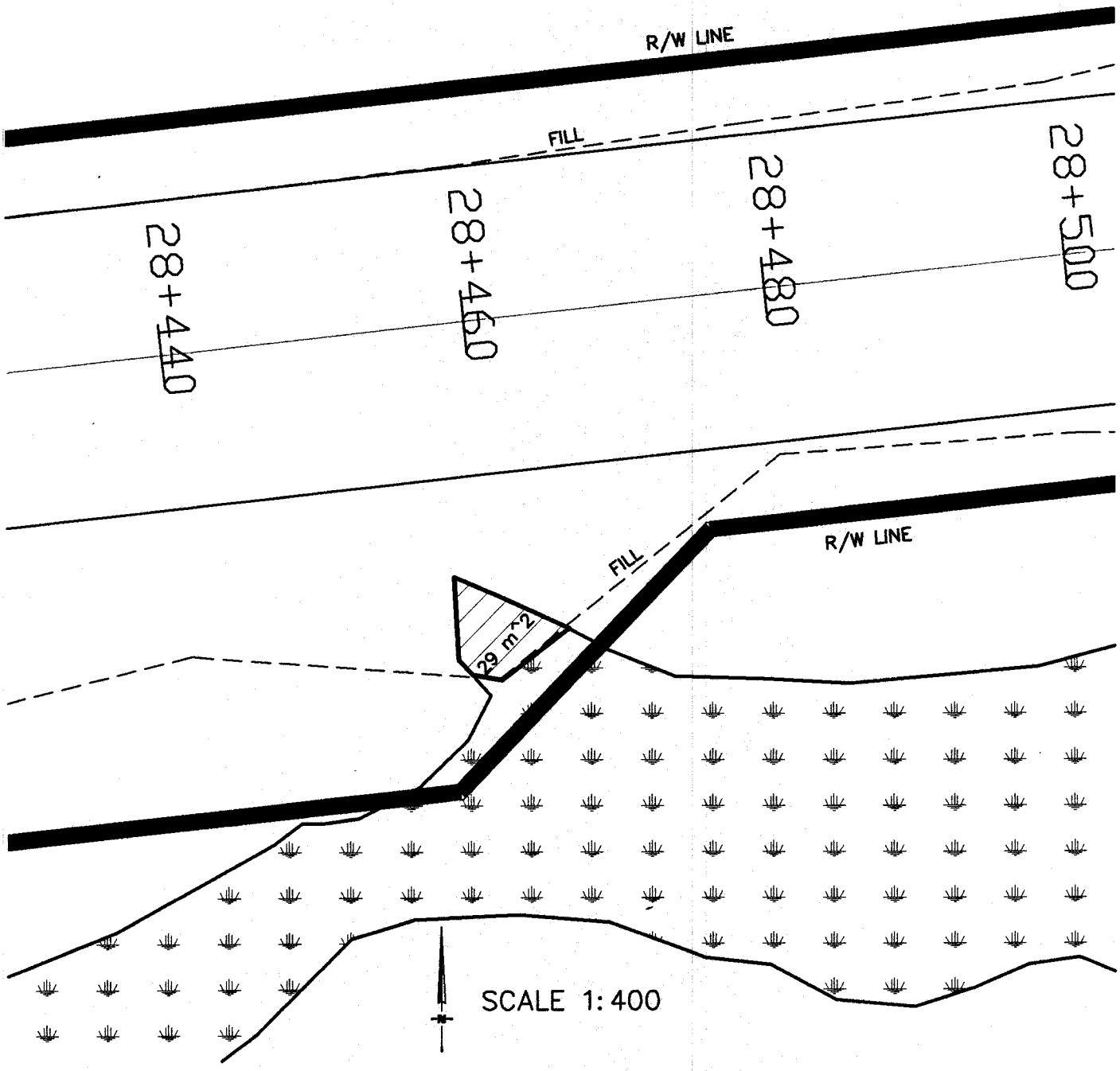


Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 27+190 RT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact



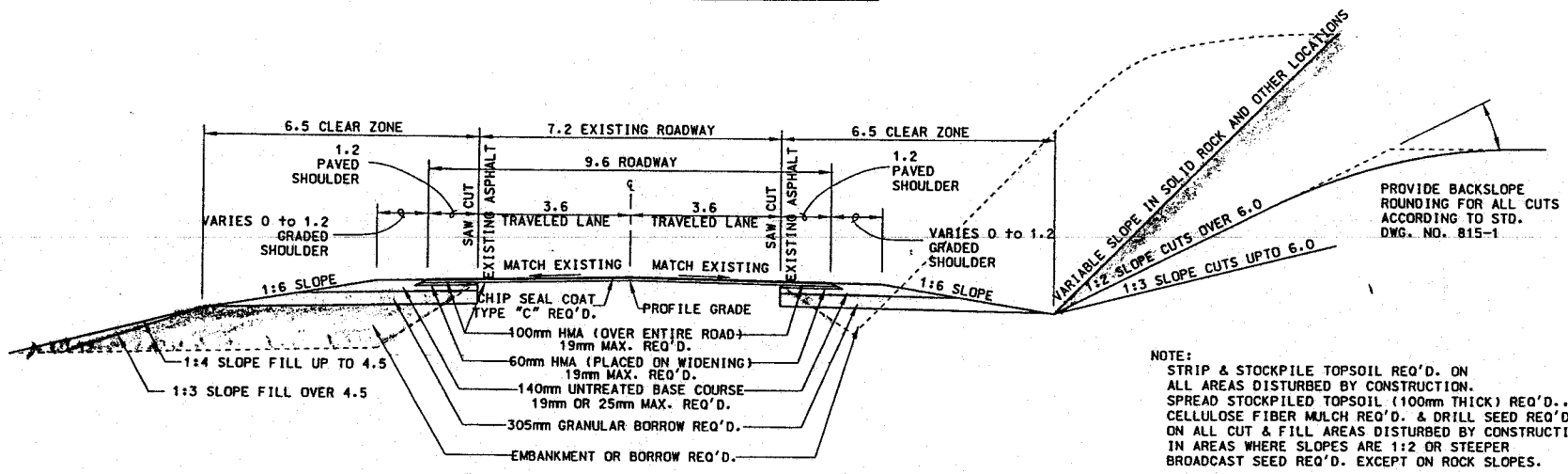
Jones & DeMille Engineering
1440 South Pipe Lane Richfield, Utah 84701
(435) 896-8266 Phone
(435) 896-8268 Fax

WETLAND IMPACT 28+460 RT.

SR-20

SCALE: 1:400	ENG.: K.M.	PROJ.#: 0006-010
DATE: Sept. 2001	DWG.BY: T.R.B.	DWG.NAME: wetimpact

TYPICAL SECTION

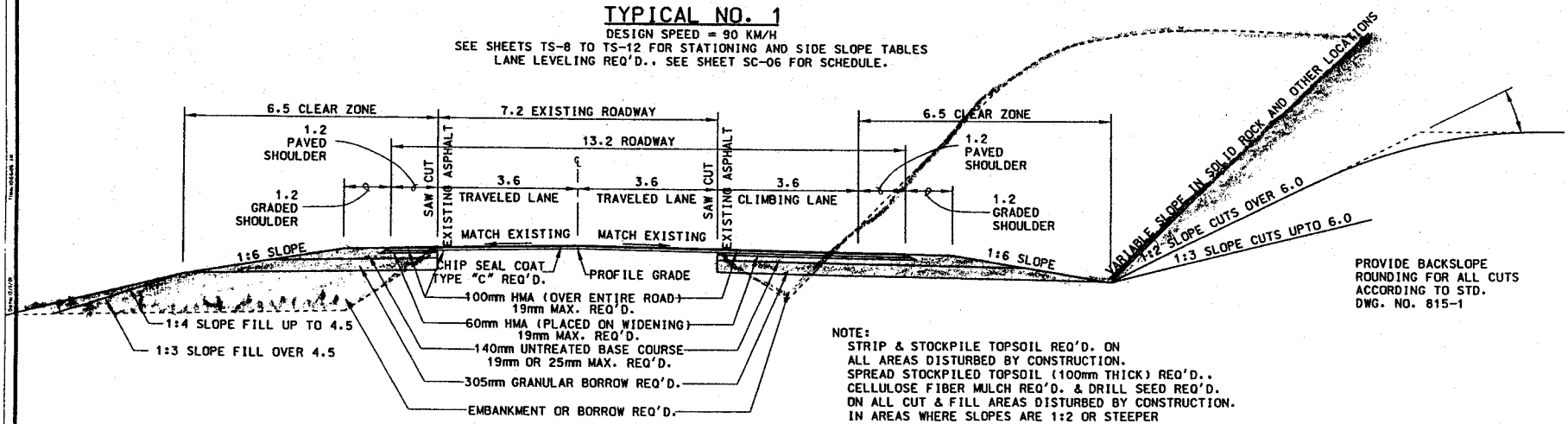


PROVIDE BACKSLOPE ROUNDING FOR ALL CUTS ACCORDING TO STD. DWG. NO. 815-1

NOTE:
STRIP & STOCKPILE TOPSOIL REQ'D. ON ALL AREAS DISTURBED BY CONSTRUCTION.
SPREAD STOCKPILED TOPSOIL (100mm THICK) REQ'D..
CELLULOSE FIBER MULCH REQ'D. & DRILL SEED REQ'D. ON ALL CUT & FILL AREAS DISTURBED BY CONSTRUCTION.
IN AREAS WHERE SLOPES ARE 1:2 OR STEEPER BROADCAST SEED REQ'D. EXCEPT ON ROCK SLOPES.

TYPICAL NO. 1

DESIGN SPEED = 90 KM/H
SEE SHEETS TS-8 TO TS-12 FOR STATIONING AND SIDE SLOPE TABLES
LANE LEVELING REQ'D.. SEE SHEET SC-06 FOR SCHEDULE.



PROVIDE BACKSLOPE ROUNDING FOR ALL CUTS ACCORDING TO STD. DWG. NO. 815-1

NOTE:
STRIP & STOCKPILE TOPSOIL REQ'D. ON ALL AREAS DISTURBED BY CONSTRUCTION.
SPREAD STOCKPILED TOPSOIL (100mm THICK) REQ'D..
CELLULOSE FIBER MULCH REQ'D. & DRILL SEED REQ'D. ON ALL CUT & FILL AREAS DISTURBED BY CONSTRUCTION.
IN AREAS WHERE SLOPES ARE 1:2 OR STEEPER BROADCAST SEED REQ'D. EXCEPT ON ROCK SLOPES.

TYPICAL NO. 2

DESIGN SPEED = 90 KM/H
SEE SHEETS TS-8 TO TS-12 FOR STATIONING AND SIDE SLOPE TABLES
LANE LEVELING REQ'D.. SEE SHEET SC-06 FOR SCHEDULE.

ALL DIMENSIONS ON THIS SHEET ARE IN METERS.
UNLESS OTHERWISE NOTED.

UTAH DEPARTMENT OF TRANSPORTATION
REGION 4 - RICHFIELD, UTAH
ROADWAY DESIGN
Baker

NO.	DATE	DESIGN REV. BY	MAPS CORR. BY	PARCELS AFFECTED	REQUEST BY	REMARKS
		ORIGINAL SUBMISSION FOR AUTHORIZATION				

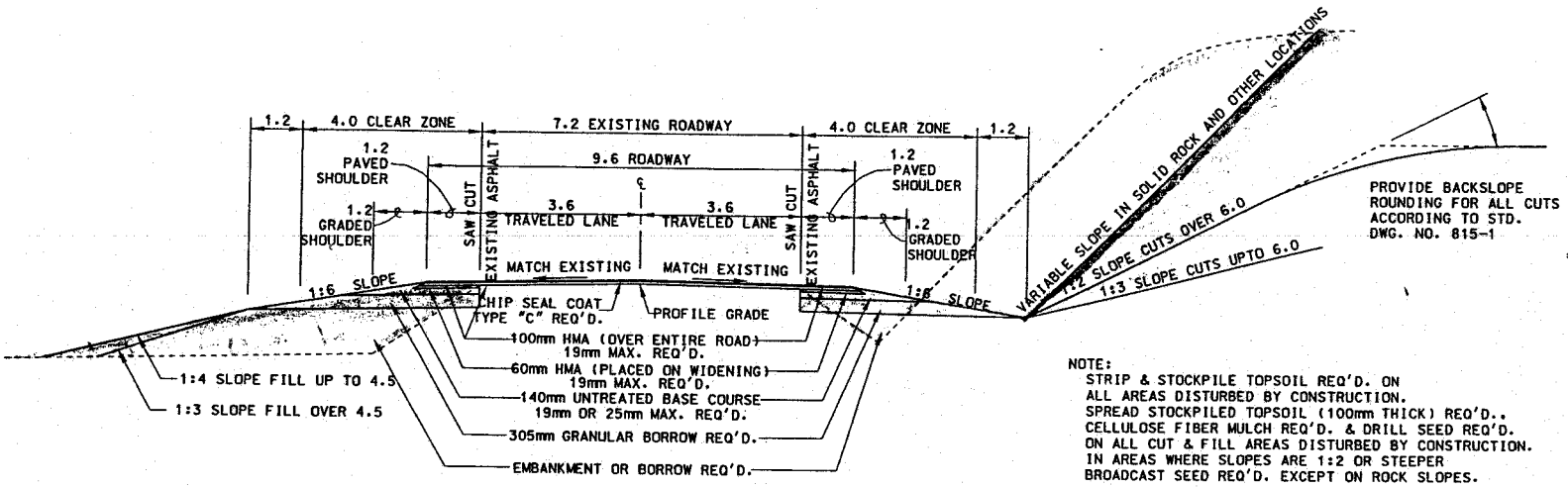
REVISIONS

DESIGN GNS 4/01 | CHECK KBM 4/01 | REVIEW
DRAWN BL/JA 4/01 | CHECK GNS 4/01
QUANT. | CHECK
DATE | BY

APPROVAL RECOMM. | DATE | PROJECT DESIGN ENGINEER
APPROVED | DATE | REGION 4 PRECONSTRUCTION ENGINEER

SR-20, I-15 TO SR-89,
PASSING LANES
TYPICAL SECTIONS
PROJECT NUMBER SP-0020(1)0
GARFIELD/IRON COUNTY

TYPICAL SECTION

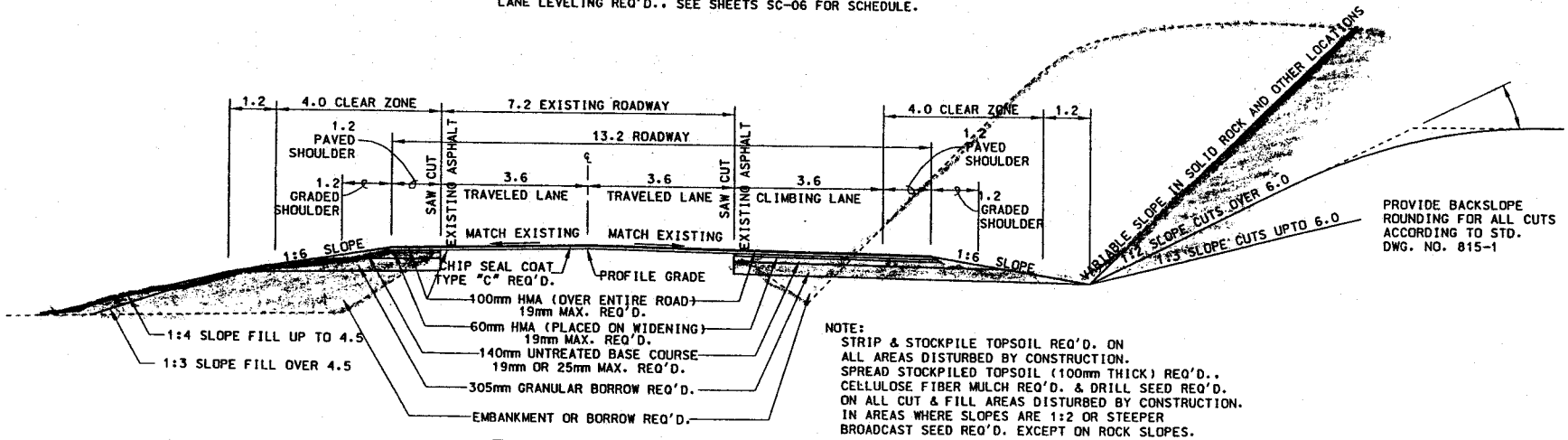


PROVIDE BACKSLOPE ROUNDING FOR ALL CUTS ACCORDING TO STD. DWG. NO. 815-1

NOTE:
STRIP & STOCKPILE TOPSOIL REQ'D. ON ALL AREAS DISTURBED BY CONSTRUCTION.
SPREAD STOCKPILED TOPSOIL (100mm THICK) REQ'D..
CELLULOSE FIBER MULCH REQ'D. & DRILL SEED REQ'D. ON ALL CUT & FILL AREAS DISTURBED BY CONSTRUCTION.
IN AREAS WHERE SLOPES ARE 1:2 OR STEEPER BROADCAST SEED REQ'D. EXCEPT ON ROCK SLOPES.

TYPICAL NO. 3

DESIGN SPEED = 90 KM/H
SEE SHEETS TS-8 TO TS-12 FOR STATIONING AND SIDE SLOPE TABLES
LANE LEVELING REQ'D.. SEE SHEETS SC-06 FOR SCHEDULE.



PROVIDE BACKSLOPE ROUNDING FOR ALL CUTS ACCORDING TO STD. DWG. NO. 815-1

NOTE:
STRIP & STOCKPILE TOPSOIL REQ'D. ON ALL AREAS DISTURBED BY CONSTRUCTION.
SPREAD STOCKPILED TOPSOIL (100mm THICK) REQ'D..
CELLULOSE FIBER MULCH REQ'D. & DRILL SEED REQ'D. ON ALL CUT & FILL AREAS DISTURBED BY CONSTRUCTION.
IN AREAS WHERE SLOPES ARE 1:2 OR STEEPER BROADCAST SEED REQ'D. EXCEPT ON ROCK SLOPES.

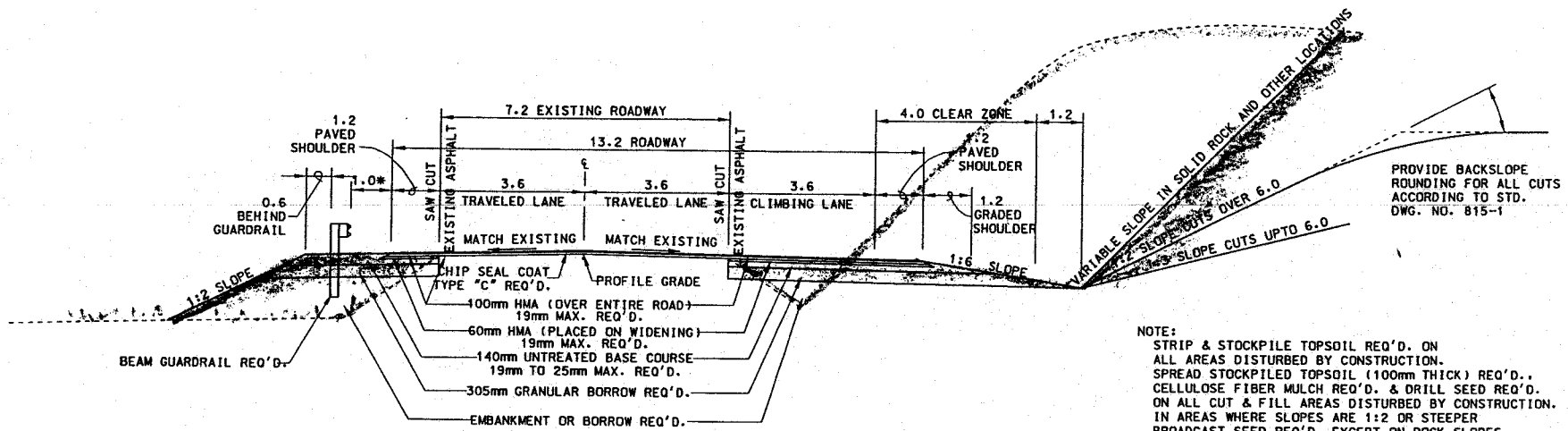
TYPICAL NO. 4

DESIGN SPEED = 90 KM/H
SEE SHEETS TS-8 TO TS-12 FOR STATIONING AND SIDE SLOPE TABLES
LANE LEVELING REQ'D.. SEE SHEET SC-06 FOR SCHEDULE.

ALL DIMENSIONS ON THIS SHEET ARE IN METERS. UNLESS OTHERWISE NOTED.

NO.	DATE	REMARKS

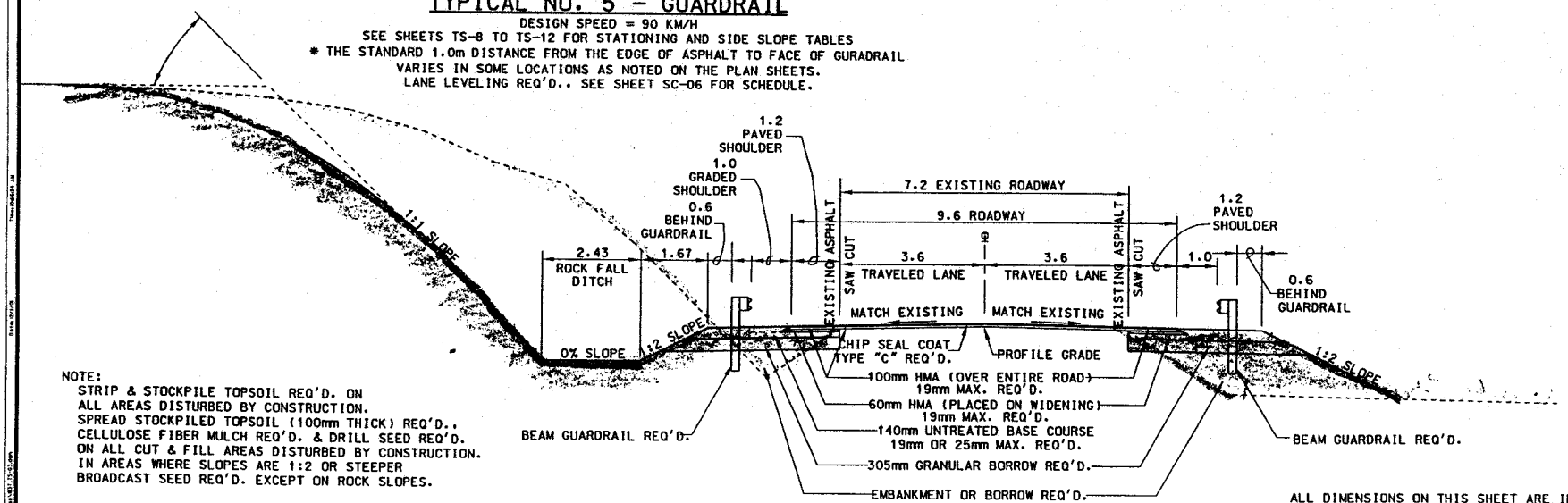
TYPICAL SECTION



NOTE:
STRIP & STOCKPILE TOPSOIL REQ'D. ON ALL AREAS DISTURBED BY CONSTRUCTION. SPREAD STOCKPILED TOPSOIL (100mm THICK) REQ'D., CELLULOSE FIBER MULCH REQ'D. & DRILL SEED REQ'D. ON ALL CUT & FILL AREAS DISTURBED BY CONSTRUCTION. IN AREAS WHERE SLOPES ARE 1:2 OR STEEPER BROADCAST SEED REQ'D. EXCEPT ON ROCK SLOPES.

TYPICAL NO. 5 - GUARDRAIL

DESIGN SPEED = 90 KM/H
SEE SHEETS TS-8 TO TS-12 FOR STATIONING AND SIDE SLOPE TABLES
* THE STANDARD 1.0m DISTANCE FROM THE EDGE OF ASPHALT TO FACE OF GURADRAIL VARIES IN SOME LOCATIONS AS NOTED ON THE PLAN SHEETS.
LANE LEVELING REQ'D.. SEE SHEET SC-06 FOR SCHEDULE.



NOTE:
STRIP & STOCKPILE TOPSOIL REQ'D. ON ALL AREAS DISTURBED BY CONSTRUCTION. SPREAD STOCKPILED TOPSOIL (100mm THICK) REQ'D., CELLULOSE FIBER MULCH REQ'D. & DRILL SEED REQ'D. ON ALL CUT & FILL AREAS DISTURBED BY CONSTRUCTION. IN AREAS WHERE SLOPES ARE 1:2 OR STEEPER BROADCAST SEED REQ'D. EXCEPT ON ROCK SLOPES.

ALL DIMENSIONS ON THIS SHEET ARE IN METERS, UNLESS OTHERWISE NOTED.

TYPICAL NO. 6 - GUARDRAIL w/ROCK FALL DITCH

DESIGN SPEED = 90 KM/H
SEE SHEETS TS-8 TO TS-12 FOR STATIONING AND SIDE SLOPE TABLES
* THE STANDARD 1.0m DISTANCE FROM THE EDGE OF ASPHALT TO FACE OF GURADRAIL VARIES IN SOME LOCATIONS AS NOTED ON THE PLAN SHEETS.
LANE LEVELING REQ'D.. SEE SHEET SC-06 FOR SCHEDULE.

NO.	DATE	DESIGN REQ'MT	MAPS CORRECT	PARCELS (EFFECTED)	REQUEST BY	REMARKS
		ORIGINAL SUBMISSION FOR AUTHORIZATION				

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION
Jones & Stellite Engineering
REGION 4 - RICHFIELD, UTAH
ROADWAY DESIGN
Baker

DESIGN	GNS 4/01	CHECK KBM 4/01	REVIEW
DRAWN	BL/JA 4/01	CHECK GNS 4/01	DATE
QUANT.		CHECK	BY

APPROVAL REGIONAL ENGINEER — DATE — PROJECT DESIGN ENGINEER
APPROVED — DATE — TRANS. PRE-CONSTRUCTION ENGINEER

SR-20, I-15 TO SR-89,
PASSING LANES
TYPICAL SECTIONS

PROJECT NUMBER SP-0020(110)

GARFIELD/IRON COUNTY