

CITY OF WRANGELL & ALASKA DEPT. OF TRANSPORTATION AND PUBLIC FACILITIES WRG-ROADS SURFACING AND TRANSFER

STATE PROJECT NO. 67662
FEDERAL PROJECT NO. MGS-0003(60)

AS-BUILT PLANS

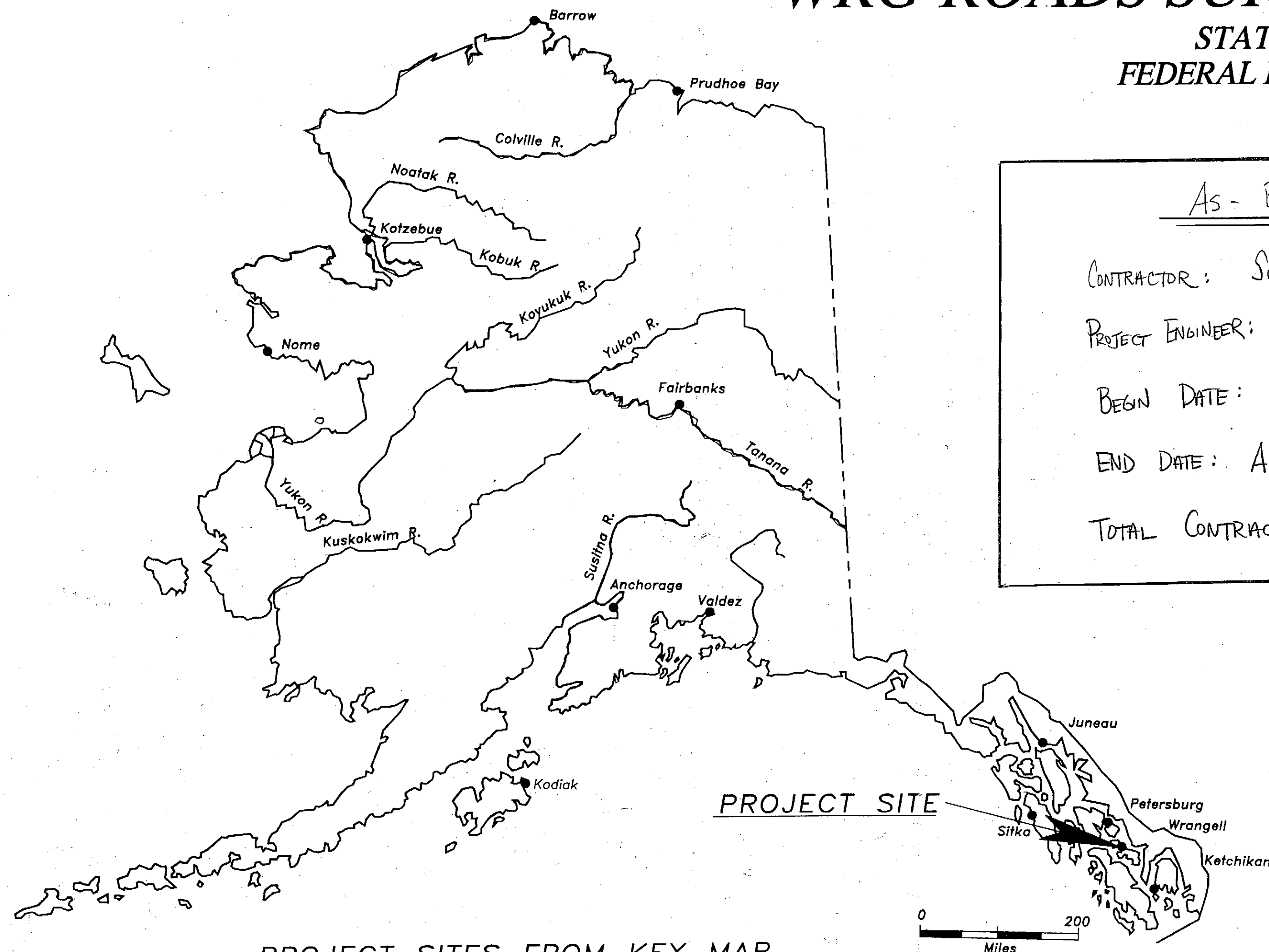
CONTRACTOR: SOUTHEAST ROAD BUILDERS, INC.

PROJECT ENGINEER: TINA BERGAM

BEGIN DATE: MARCH 1, 2001

END DATE: AUGUST 31, 2001

TOTAL CONTRACT AMOUNT: \$1,935,660.96



PROJECT SITES FROM KEY MAP

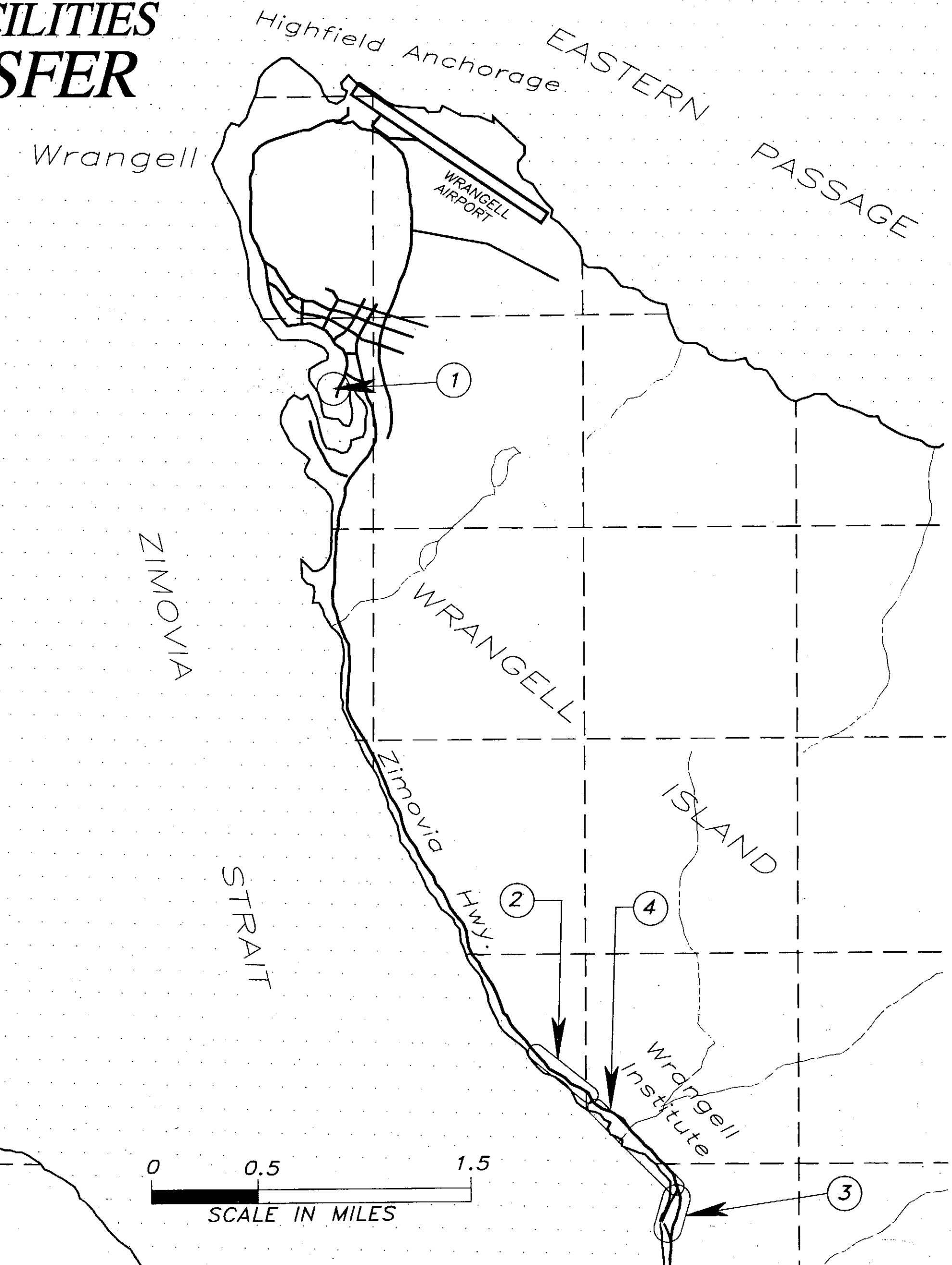
- 1 RELIANCE DOCK ACCESS
- 2 ZIMOVIYA HIGHWAY PATH PAVING
- 3 SHOEMAKER BAY LOOP ROAD PAVING
- 4 ZIMOVIYA HIGHWAY PATH EXTENSION

SHEET INDEX

- 1 COVER SHEET
- 2 ESTIMATE OF QUANTITIES AND LEGEND
- 3 TYPICAL SECTIONS
- 4 RELIANCE DOCK APPROACH
- 5 ZIMOVIYA HIGHWAY EXISTING PATH PAVING
- 6-11 SHOEMAKER BAY LOOP ROAD
- 12-18 ZIMOVIYA HIGHWAY PATH EXTENSION
- 19-20 ZIMOVIYA HIGHWAY PATH EXTENSION SECTIONS
- 21-22 ZIMOVIYA HIGHWAY PATH EXTENSION BRIDGE
- 23 PROJECT DETAILS
- 24 EROSION AND SEDIMENT CONTROL DETAILS
- 25-26 EROSION AND SEDIMENT CONTROL
- 27 TRAFFIC CONTROL PLAN

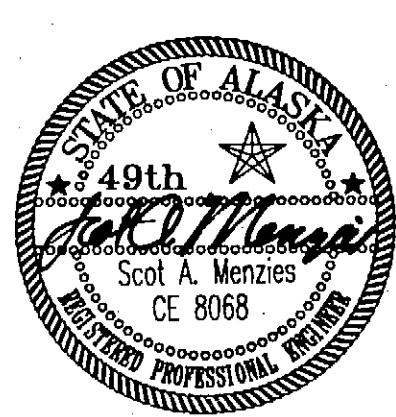
THE FOLLOWING ADOT&PF STANDARD DRAWINGS APPLY TO THIS PROJECT:

C-04.11, D-01.02, D-05.10, S-05.00



PROJECT KEY MAP

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: Tina Bergam Date: 2/16/01

NO.	DATE	REVISION	BY	APPRVD
 49th Scott A. Menzies CE 8068 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) COVER SHEET CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 5/11/28/00	DRAWN BY: S.A.M.	PROJECT NO.: 992339		
SCALE: AS NOTED	APPRVD BY: R.W.B.	SHEET 1 OF 27		

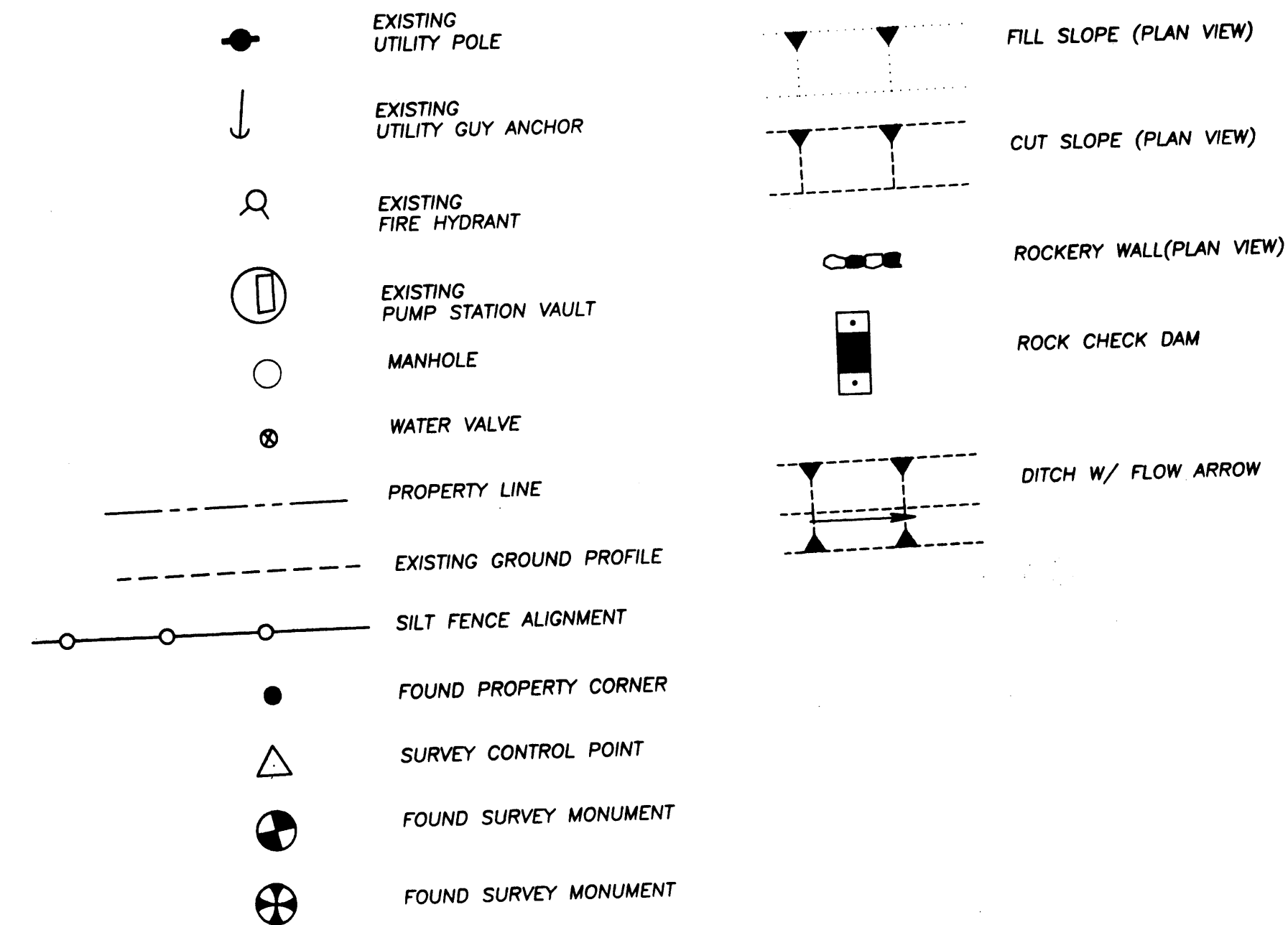
ESTIMATE OF QUANTITIES

ITEM NO.	CONSTRUCTION ITEM	UNITS	QUANTITY
201(3A)	CLEARING AND GRUBBING	ACRE	1.5
202(2)	REMOVAL OF PAVEMENT	S.Y.	~~210~~ 131.0
203(3)	UNCLASSIFIED EXCAVATION	C.Y.	~~200~~ 925.0
203(11)	SHOT ROCK EMBANKMENT	TON	~~2300~~ 6,549.82
301(1)	CRUSHED AGGREGATE BASE COURSE	TON	~~2,306~~ 1,867.13
302(3)	PROCESSING FOR SUBGRADE MODIFICATION	STA	88
401(1)	ASPHALT CONCRETE PAVEMENT, TYPE II, CLASS B	TON	~~1808~~ 1,848.93
401(2)	ASPHALT CEMENT, PG 58-28	TON	~~109~~ 107.24
506(5)	TREATED TIMBER BRIDGE	L.S.	ALL REQ.
512(1)	ROCKERY WALL	S.Y.	~~150~~ 299.60
603(1-24)	24-INCH CORRUGATED STEEL PIPE	L.F.	~~45~~ 56
603(1-36)	36-INCH CORRUGATED STEEL PIPE	L.F.	67
603(1-48)	48-INCH CORRUGATED STEEL PIPE	L.F.	6
604(4)A	ADJUST EXISTING MANHOLE	EA.	~~25~~ 18
625(1)	PIPE HAND RAIL	L.F.	~~176~~ 130
627(10)	ADJUSTMENT OF VALVE BOX	EA.	~~23~~ 7
640(1)	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ.
641(2)	EROSION AND POLLUTION CONTROL NOT USED	CONT. SUM	~~ALL REQ.~~ 0
642(1)	CONSTRUCTION SURVEYING	L.S.	ALL REQ.
643(3)	PERMANENT CONSTRUCTION SIGNING	L.S.	ALL REQ.
643(15)	FLAGGING	CONT. SUM	ALL REQ.
643(25)	TRAFFIC CONTROL	CONT. SUM	ALL REQ.
644(1)	FIELD OFFICE	L.S.	ALL REQ.
644(2)	FIELD LABORATORY	L.S.	ALL REQ.
644(6)	ENGINEERING TRANSPORTATION	L.S.	ALL REQ.
670(1)	PAINTED TRAFFIC MARKINGS	L.S.	ALL REQ.

NOTES

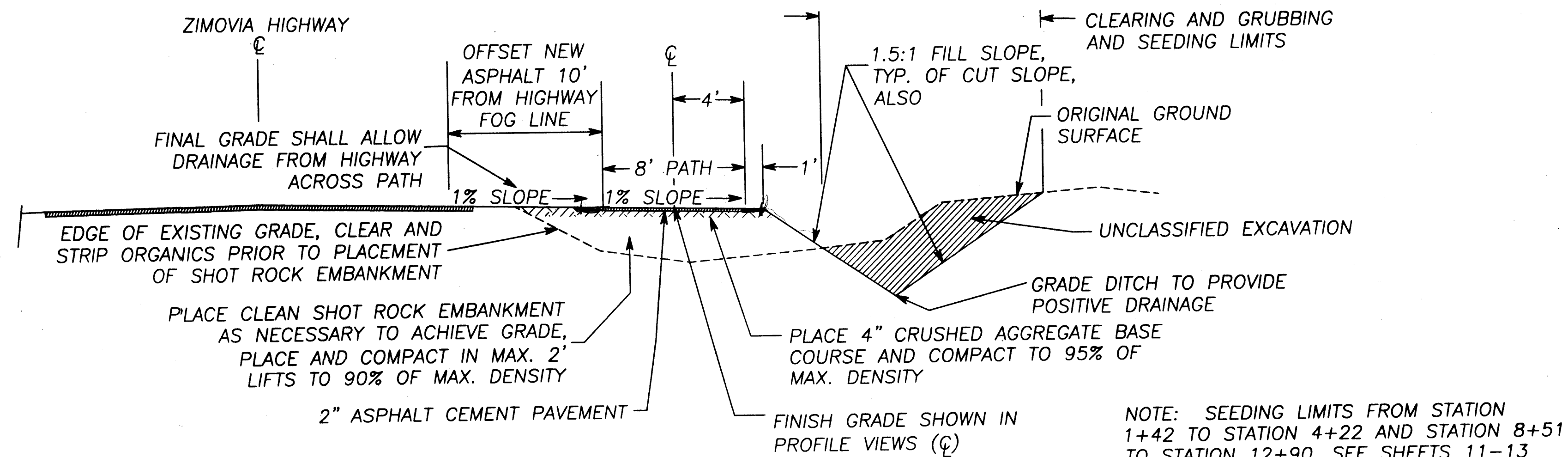
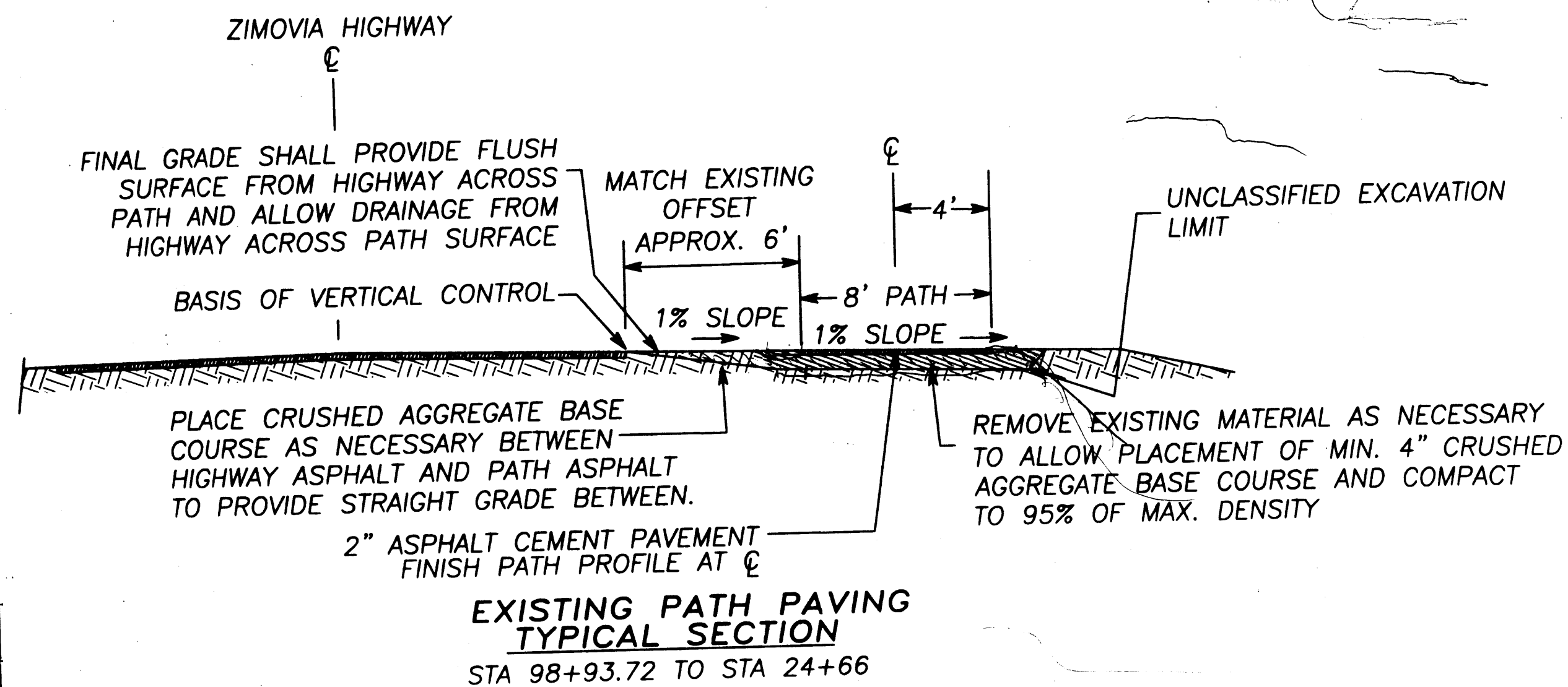
- EXCAVATION AND EMBANKMENT QUANTITIES ARE BASED ON FIELD SURVEY DATA WHICH SHOULD BE CONFIRMED BY CONTRACTOR.

LEGEND OF SYMBOLS

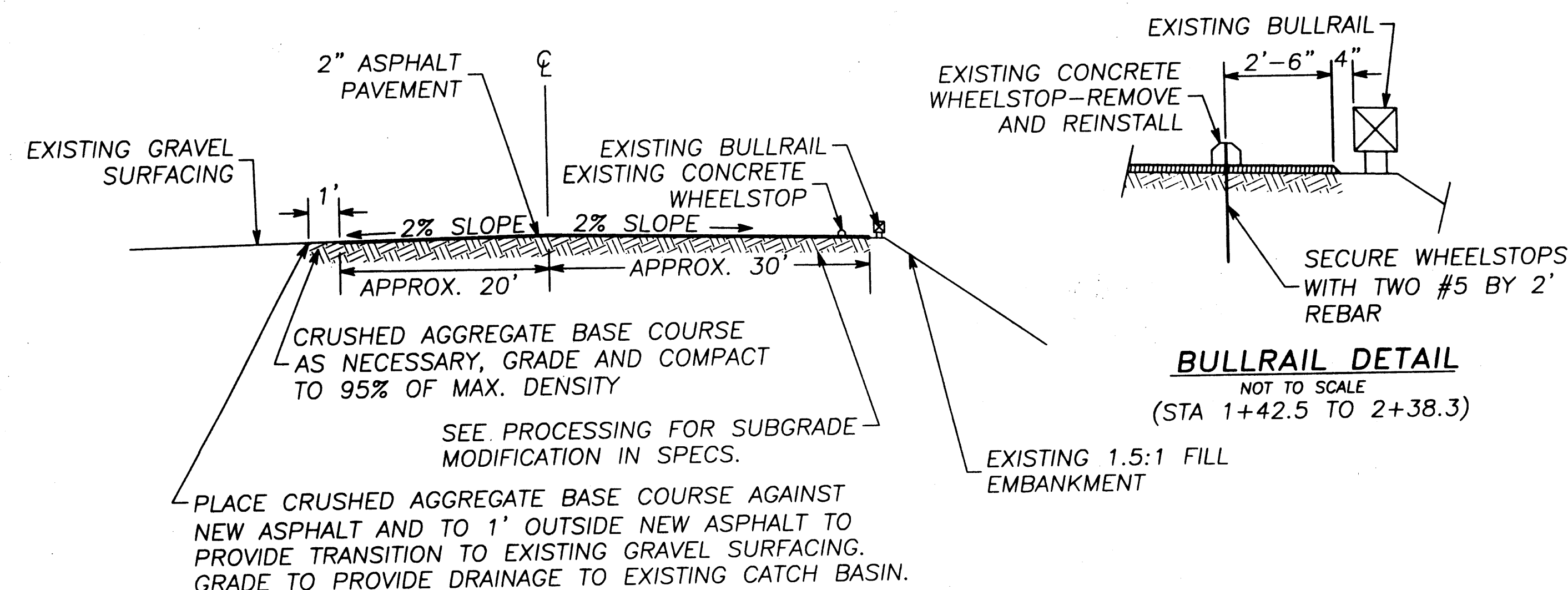
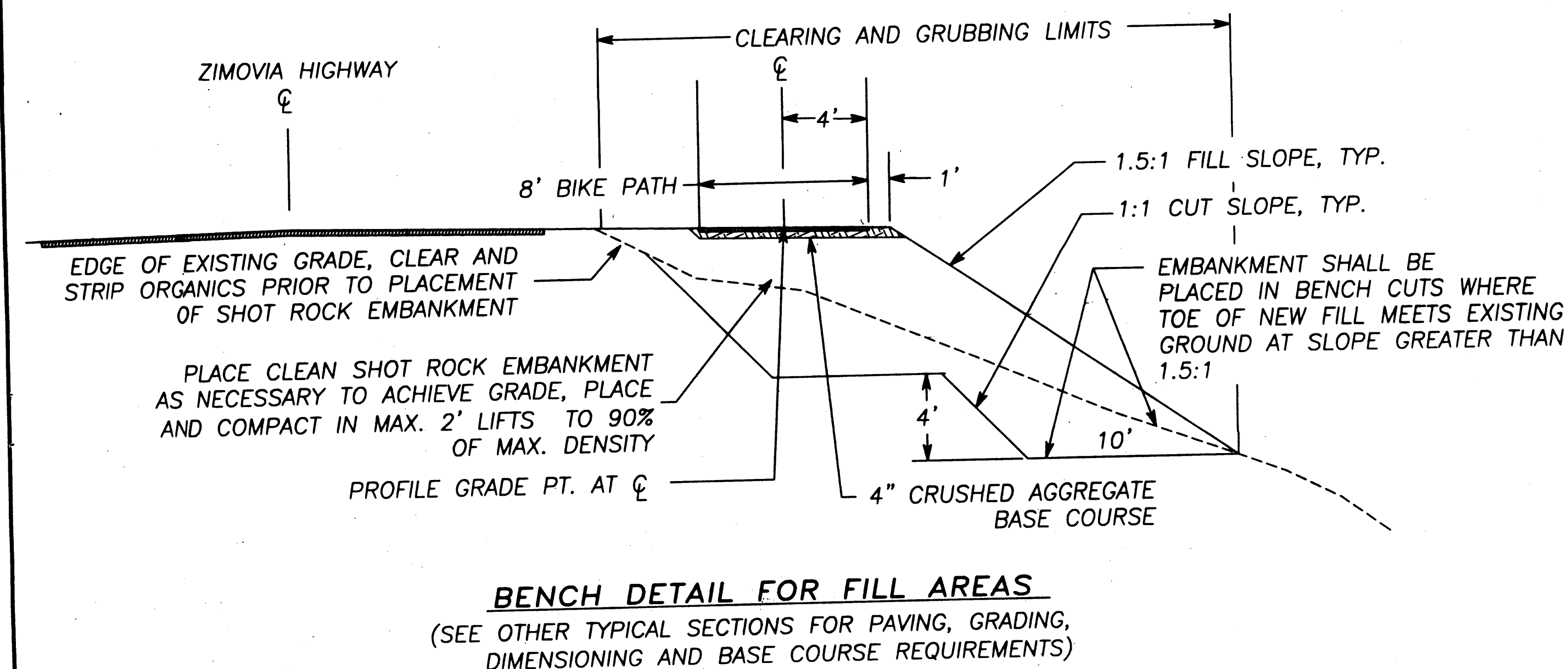


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 2/14/24

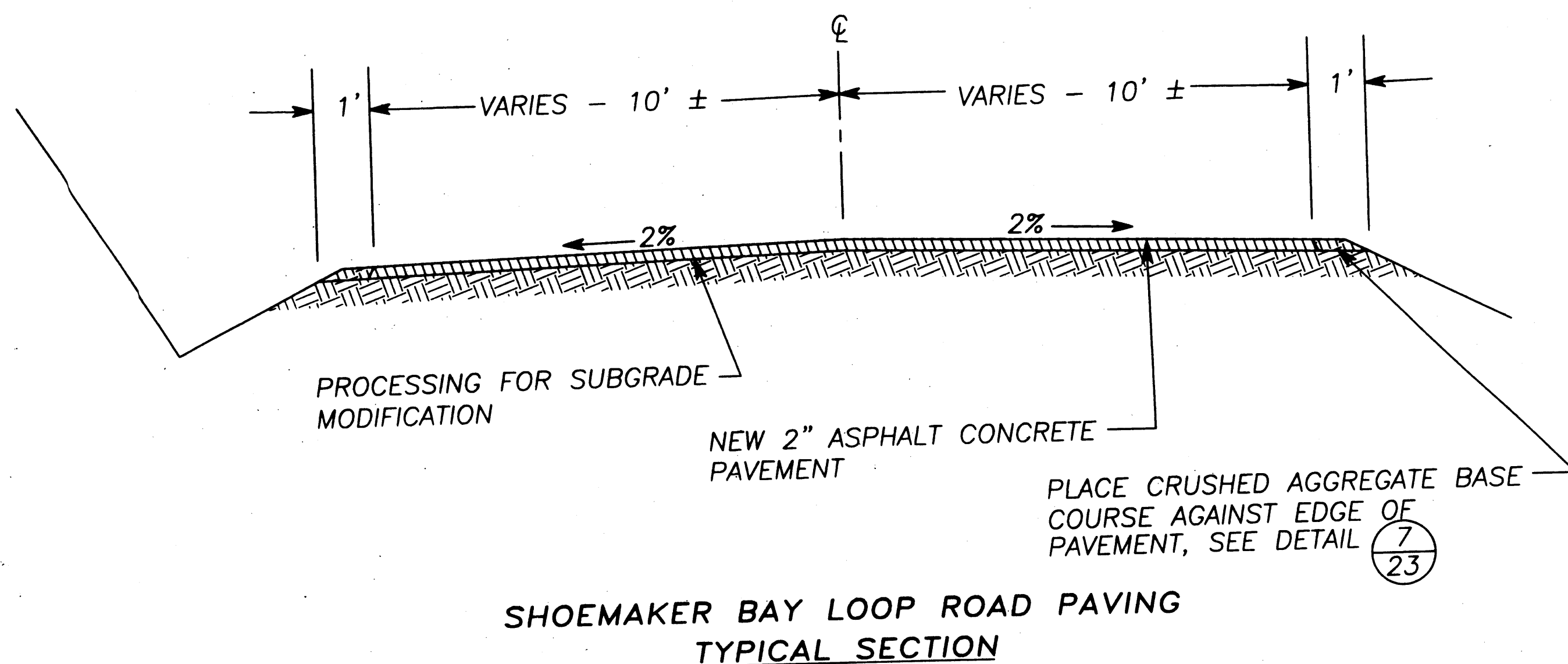
NO.	DATE	REVISION	BY	APPROV
WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ESTIMATE OF QUANTITIES/LEGEND CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929  R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 2 OF 2



PATH EXTENSION AND PAVING TYPICAL SECTION
STA 1+32.15 TO STA 4+50 (APPROX.)



RELIANCE DOCK ACCESS/PARKING LOT TYPICAL SECTION

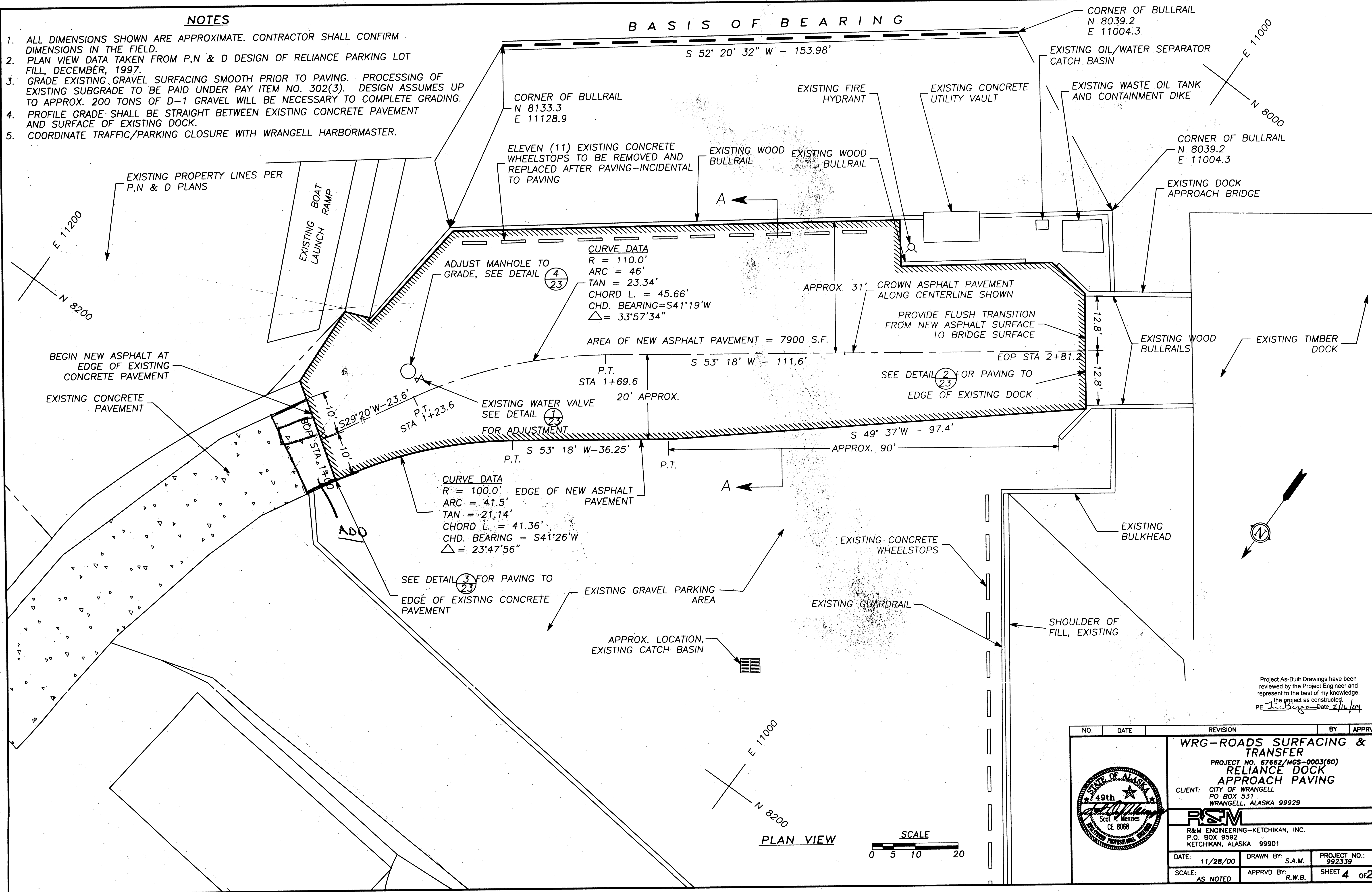


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 2/16/04

NO.	DATE	REVISION	BY	APPRVD.
WRG—ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) TYPICAL SECTIONS				
CLIENT: CITY OF WRANGELL P.O. BOX 531 WRANGELL, ALASKA 99929				
R&M R&M ENGINEERING—KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	NOT TO SCALE	APPRVD BY:	R.W.B.	SHEET 3 of 27

NOTES

1. ALL DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM DIMENSIONS IN THE FIELD.
2. PLAN VIEW DATA TAKEN FROM P,N & D DESIGN OF RELIANCE PARKING LOT FILL, DECEMBER, 1997.
3. GRADE EXISTING GRAVEL SURFACING SMOOTH PRIOR TO PAVING. PROCESSING OF EXISTING SUBGRADE TO BE PAID UNDER PAY ITEM NO. 302(3). DESIGN ASSUMES UP TO APPROX. 200 TONS OF D-1 GRAVEL WILL BE NECESSARY TO COMPLETE GRADING.
4. PROFILE GRADE SHALL BE STRAIGHT BETWEEN EXISTING CONCRETE PAVEMENT AND SURFACE OF EXISTING DOCK.
5. COORDINATE TRAFFIC/PARKING CLOSURE WITH WRANGELL HARBORMASTER.



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *John B. ...* Date *2/16/04*

NO.	DATE	REVISION	BY	APPROV
WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) RELIANCE DOCK APPROACH PAVING CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929				
R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 11/28/00	DRAWN BY: S.A.M.	PROJECT NO.: 992339		
SCALE: AS NOTED	APPRVD BY: R.W.B.	SHEET 4 of 2		

HORIZONTAL CONTROL NOTE
BASIS OF BEARING IS LINE FROM B.P.R. BRASS CAP MARKED PC 186+37.7 SHOWN ON THIS SHEET RIGHT OF STA 11+55 AND B.L.M. ALUM. CAP RIGHT OF STA 42+45 FOR C1, L23, U.S.S. 3403 AS SHOWN ON ALASKA DOT R.O.W. PLANS, PROJECT #STP-0943(22) BEARING S 50°07'36" E, 3085.98 (RECORD 3086.21').

PAVE UP TO EXISTING CONCRETE-SURFACED DRIVEWAY. ASPHALT SHALL BE FLUSH WITH EXISTING DRIVEWAY SURFACE WHERE THEY ABUT PROVIDE SAWCUT EDGES AT BOTH SIDES OF DRIVEWAY.

EXISTING CULVERTS, TYP.

EXISTING SANITARY SEWER VALVE VAULT AND LIFT STATION. PAVE MIN. 18" AROUND ENTIRE PERIMETER OF MANHOLE AND PUMP STATION. ADJUST MANHOLE PER DETAIL 4, PAVE FLUSH TO WETWELL COVER, NO ADJUSTMENT NECESSARY PRIOR TO PAVING, TYPICAL

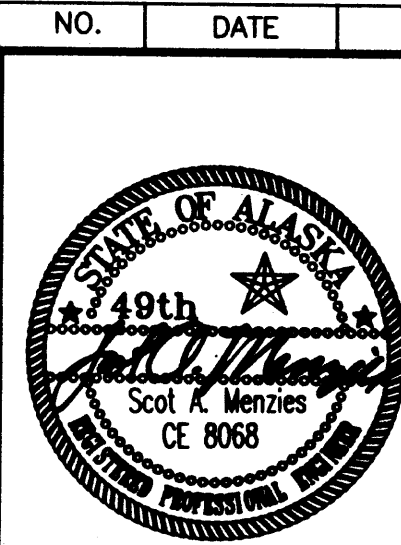
MH-3 (A.P. - STA 22+69) — NO ADJUSTMENT
STA 24+66 (APPROX.) END NEW PAVED PATH AT EXISTING DRIVEWAY. MATCH OFFSET AND GRADE AT EXISTING PATH. SAWCUT EXISTING ASPHALT EDGE.

PLAN VIEW

NOTES

1. PLAN VIEW AND CONTROL DATA TAKEN FROM ZIMOVIA HIGHWAY SEWER AND WATER EXTENSION DATED JANUARY, 1998.
2. PAVED PATH SHOWN SHALL BE AN EXTENSION OF THE EXISTING PATH AND SHALL BEGIN AT THE END OF THE EXISTING PATH. THE NEW PATH SHALL BE OFFSET FROM THE EXISTING HIGHWAY PAVEMENT THE SAME DISTANCE AS THE EXISTING PATH, APPROXIMATELY 6 FEET.
3. AREA TO BE PAVED AS SHOWN IS APPROXIMATELY 12,080 SQUARE FEET.

SCALE
10 0 10 30



NO.	DATE	REVISION	BY	APPRVD
WRG-ROADS SURFACING & TRANSFER				
PROJECT NO. 67662/ MGS-0003(60)				
ZIMOVIA HIGHWAY				
EXISTING PATH PAVING DESIGN				
CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929				
RSM				
R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 11/28/00	DRAWN BY: S.A.M.	PROJECT NO.: 992339		
SCALE: AS NOTED	APPRVD BY: R.W.B.	SHEET 5 of 27		

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *James Berger* Date 7/16/04

CONTROL COORDINATES

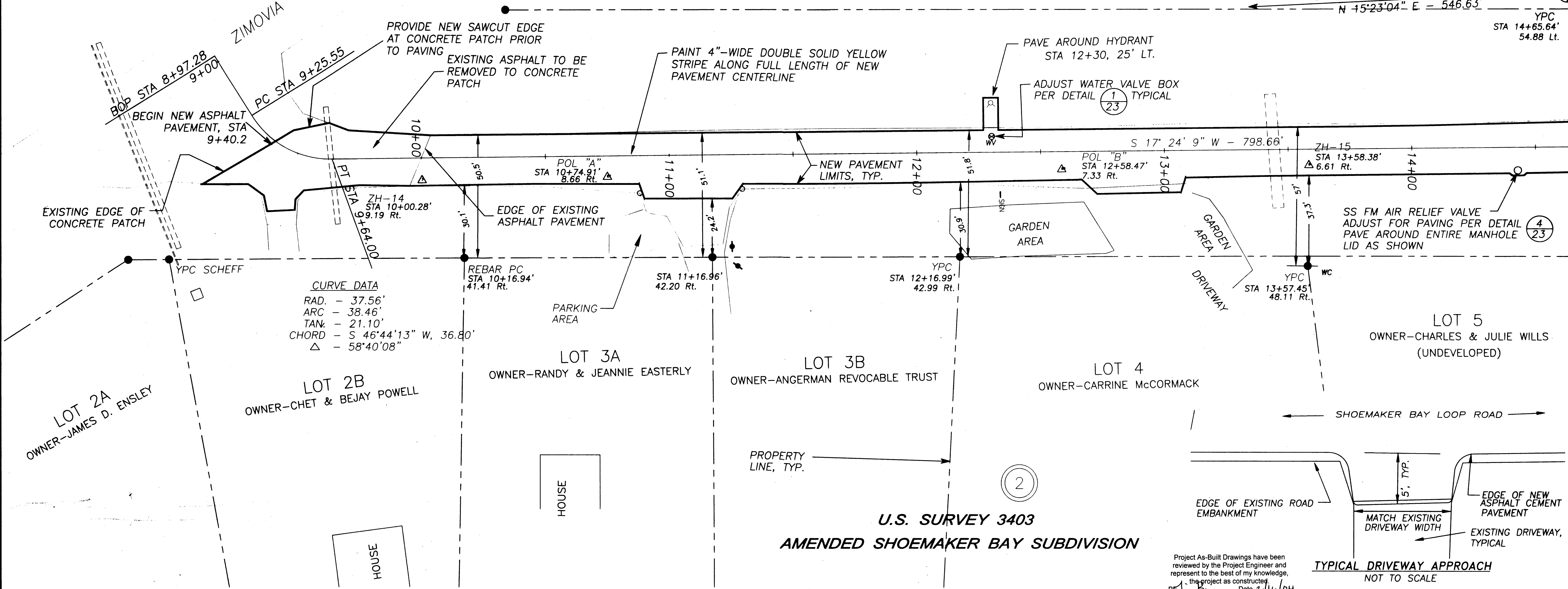
POINT	STATION	EAST	NORTH
BOP	8+97.28, C/L	207,649.04	78,619.30
PT	9+64.00, C/L	207,594.80	78,587.28
GLO BC	14+63.52, 61.42' LT.	207,504.02	78,092.26
BPR BC	19+55.04, 36.89' LT.	207,364.09	77,635.65
PC	17+62.66, C/L	207,355.95	77,825.18
EOP	44+44.33, C/L	208,246.70	75,543.69

U.S. SURVEY 3403

TRACT B
HAINES FAMILY TRUST

GLO BC TO BOP STA 8+97.28
N 15°23'04" E = 546.63'

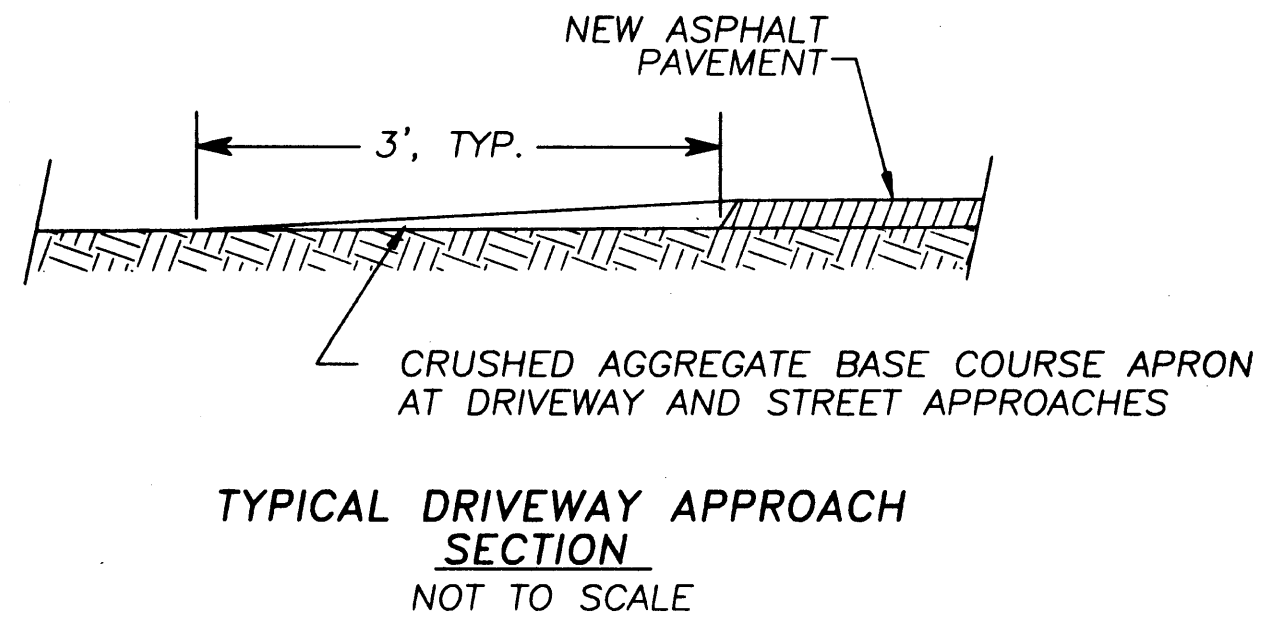
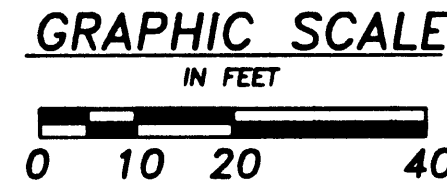
GLO BC
STA 14+63.52'
61.42' LT.
YPC
STA 14+65.64'
54.88' Lt.



CURVE DATA
RAD. - 37.56'
ARC - 38.46'
TAN - 21.10'
CHORD - S 46°44'13" W, 36.80'
Δ - 58°40'08"

NOTES

1. SURVEY DATA TAKEN FROM G. SCHEFF SURVEY OF APRIL AND MAY OF 1997. DIMENSIONS OF ASPHALT SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM IN FIELD.
2. ASPHALT EDGES SHALL BE 1' FROM EDGE OF ROAD EMBANKMENT AS SHOWN, SEE TYPICAL SECTION, SHEET 3.
3. APPROXIMATE AREA OF ASPHALT SHOWN IS APPROXIMATELY 83,018 SQUARE FEET.
4. MAINTAIN EXISTING SUPERELEVATION ALONG ENTIRE PROJECT.
5. BASIS OF HORIZONTAL CONTROL IS THE EXISTING ROAD SHOULDERS. BASIS OF VERTICAL CONTROL IS THE EXISTING GRADE PLUS 2 INCHES.
6. CENTERLINE (SOLID DOUBLE YELLOW) STRIPING SHALL BE PROVIDED ON SHOEMAHER BAY LOOP ROAD.

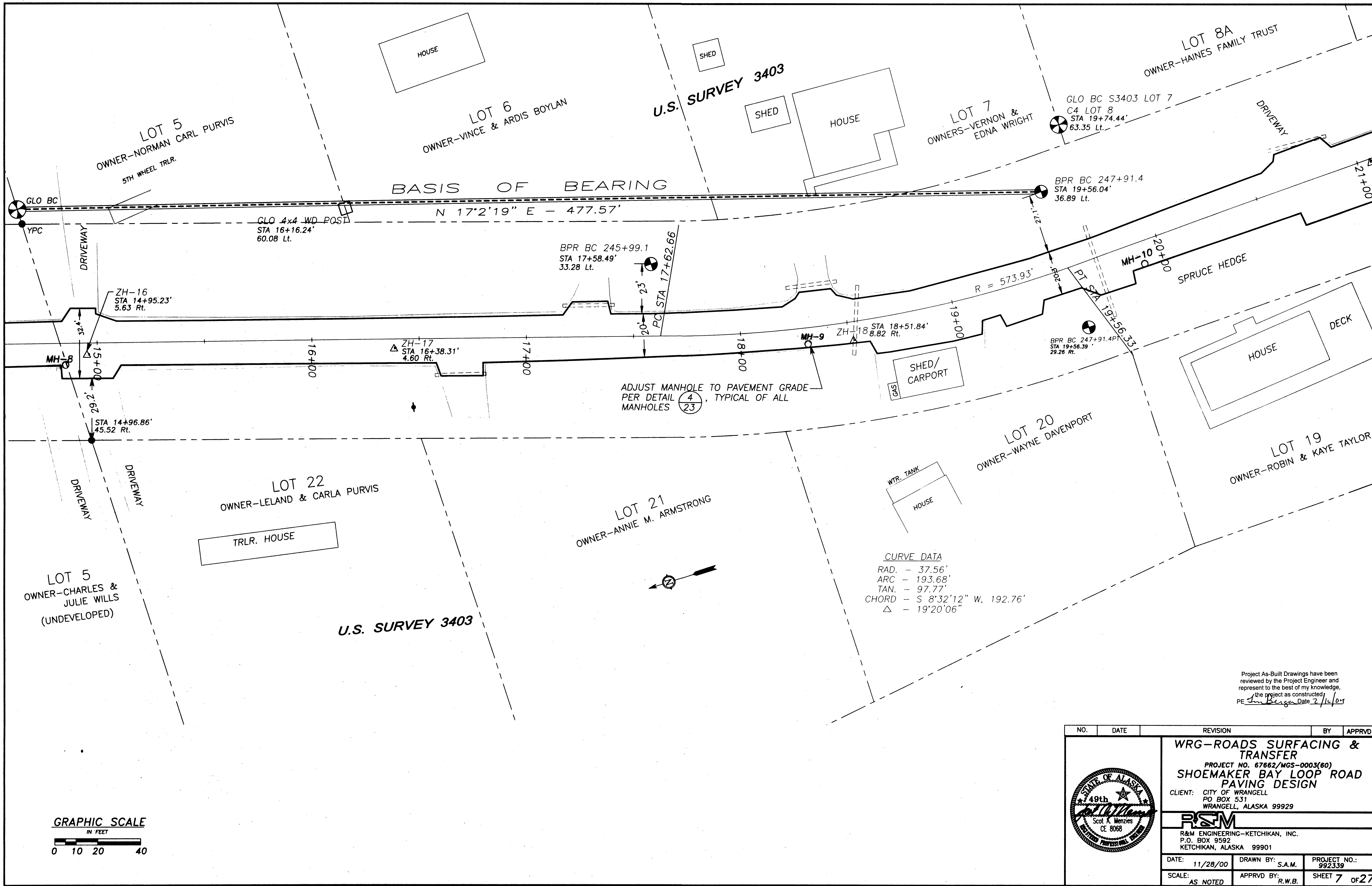


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE [Signature] Date 2/16/04

TYPICAL DRIVEWAY APPROACH
NOT TO SCALE

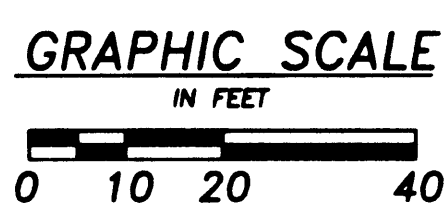
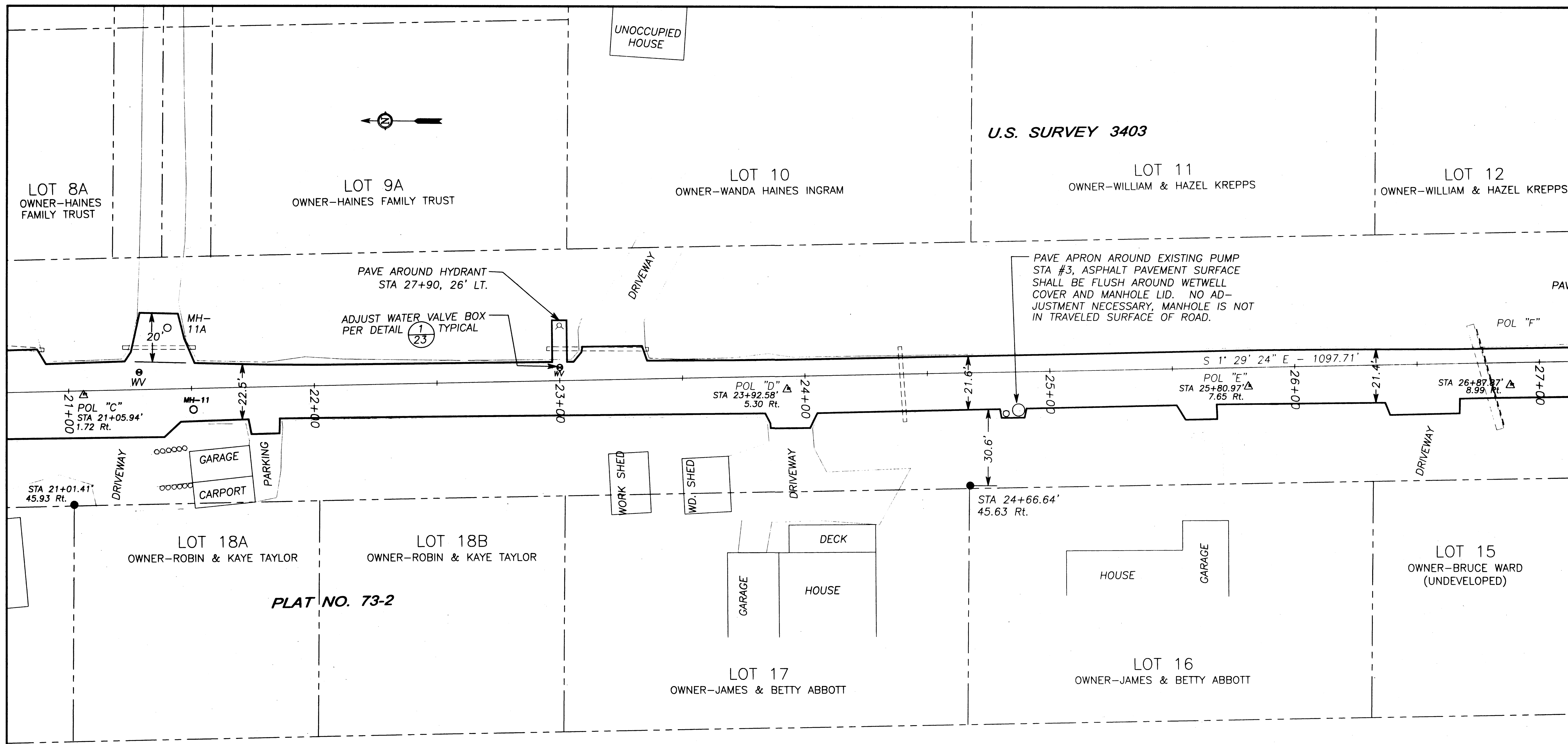


NO.	DATE	REVISION	BY	APPROV
WRG-ROADS SURFACING & TRANSFER				
PROJECT NO. 67662/MGS-0003(60)				
SHOEMAHER BAY LOOP ROAD PAVING DESIGN				
CLIENT: CITY OF WRANGELL P.O. BOX 531 WRANGELL, ALASKA 99929				
RSM R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339
SCALE:	AS NOTED	APPROV BY:	R.W.B.	SHEET 6 OF 27



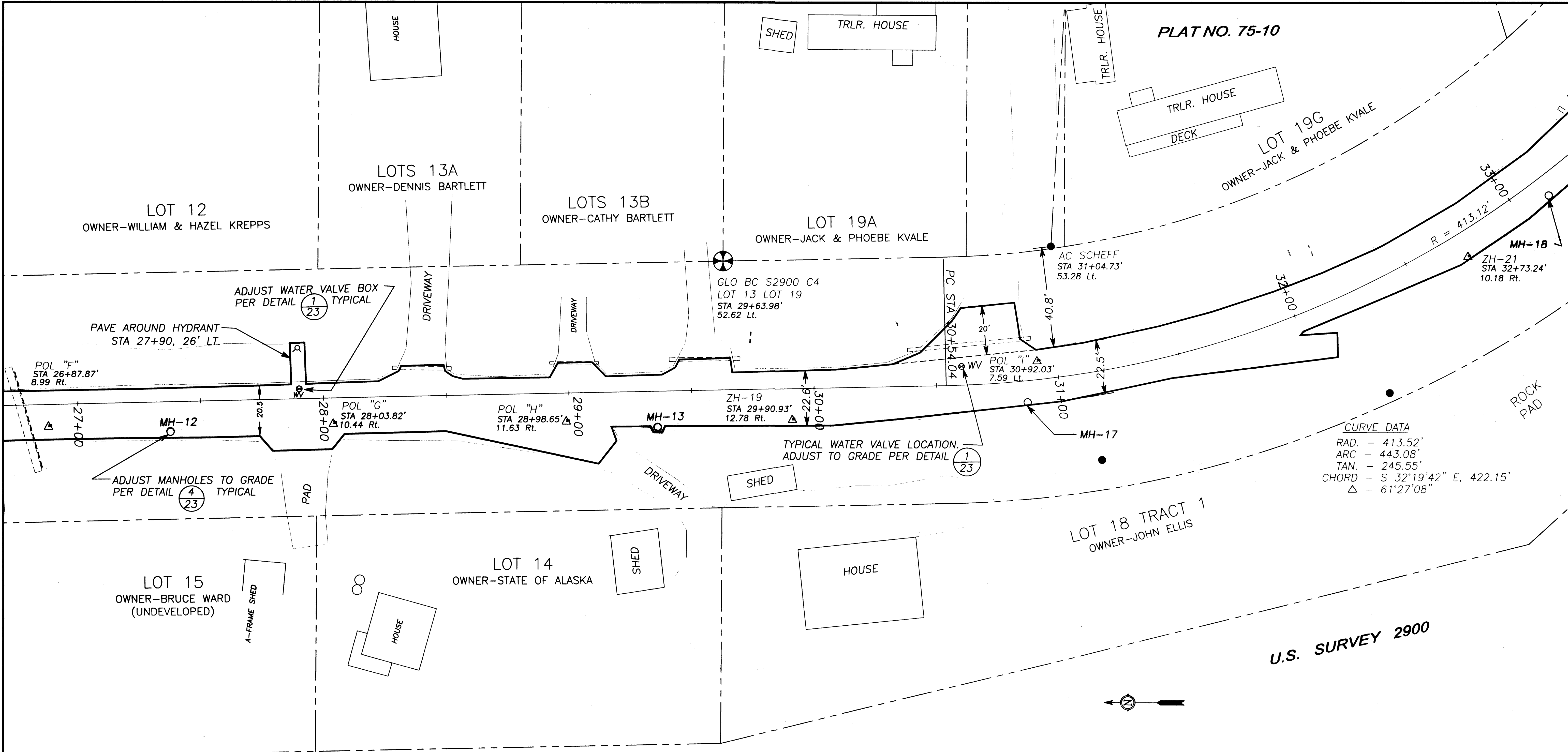
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Jim Berger* Date *7/16/07*

NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) SHOEMAKER BAY LOOP ROAD PAVING DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 RSM R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 7 OF 27



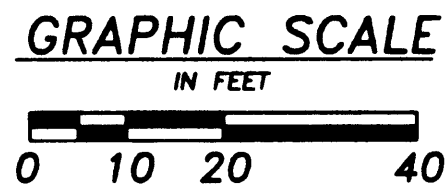
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Jim Bogan* Date *2/14/04*

NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) SHOEMAKER BAY LOOP ROAD PAVING DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 11/28/00		DRAWN BY: S.A.M.		PROJECT NO.: 992339
SCALE: AS NOTED		APPRVD BY: R.W.B.		SHEET 8 OF 27



CURVE DATA

RAD.	- 413.52'
ARC	- 443.08'
TAN.	- 245.55'
CHORD	- S 32°19'42" E, 422.15'
Δ	- 61°27'08"

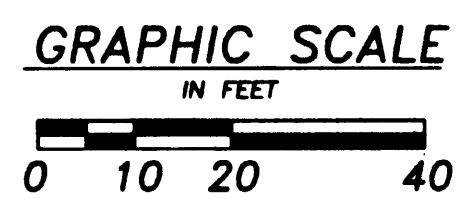
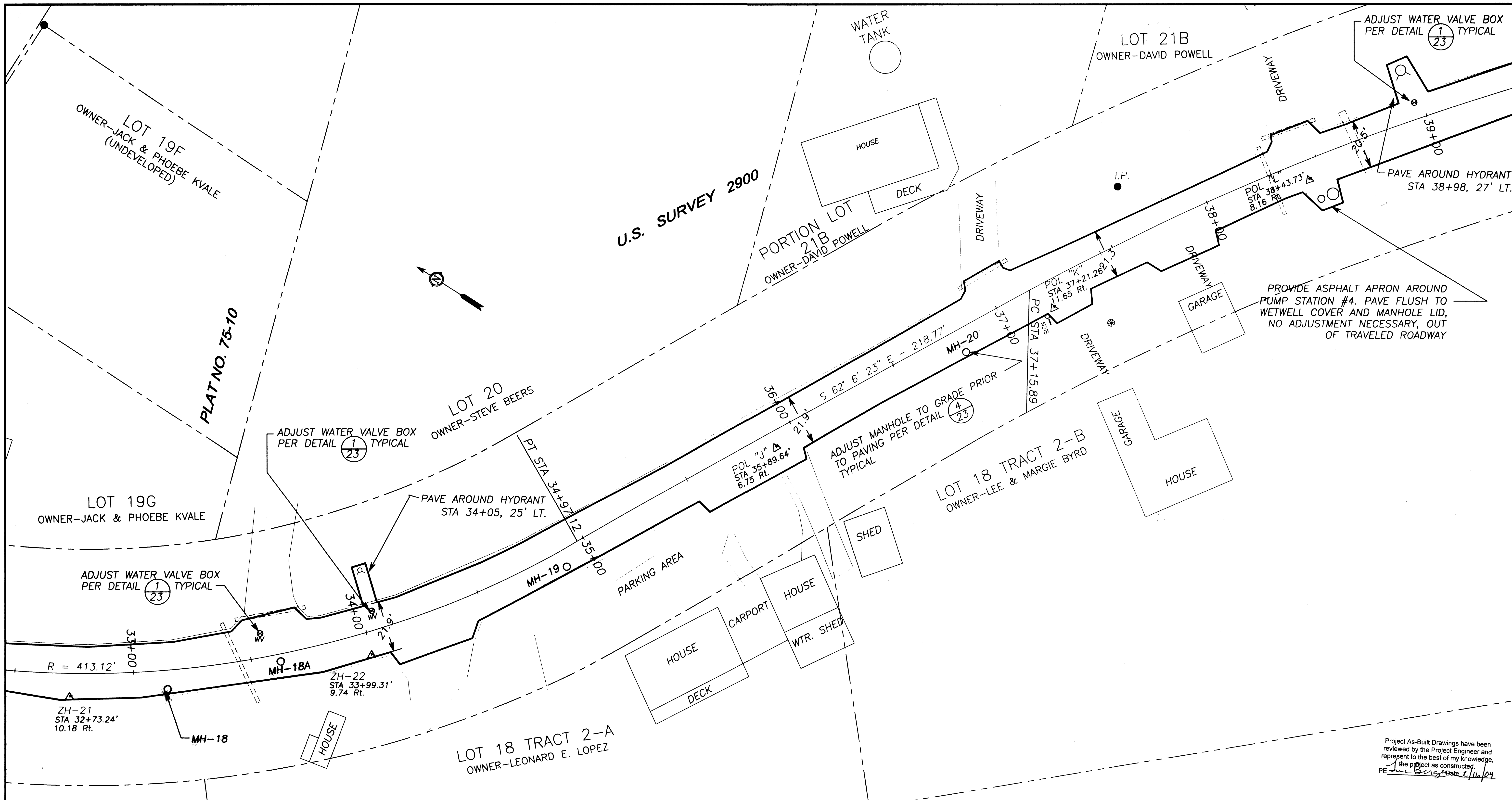


NOTES

1. MAINTAIN EXISTING SUPERELEVATION FROM STATIONS 32+00 TO STATION 35+00.

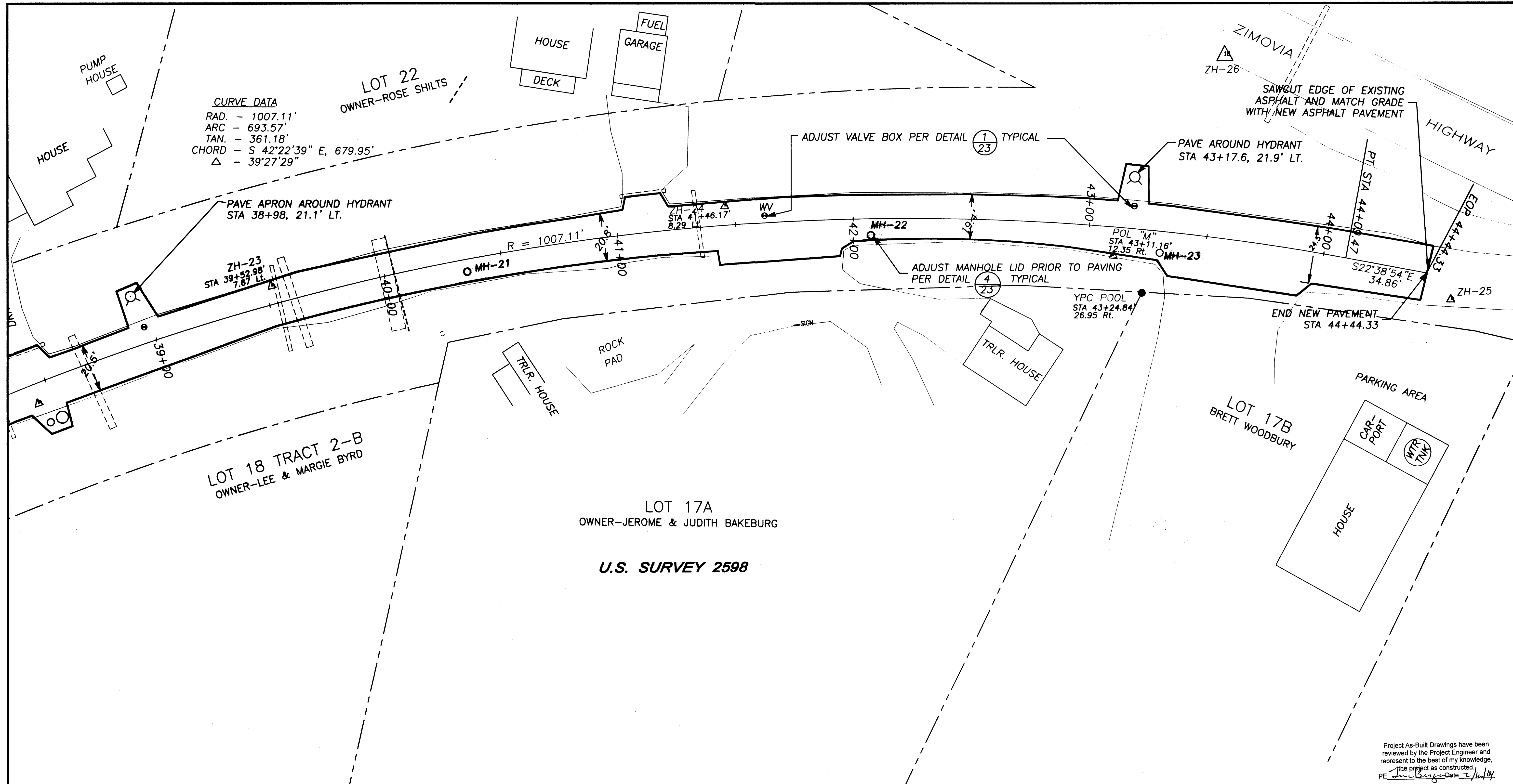
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Jim Berg* Date *2/14/04*

NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) SHOEMAKER BAY LOOP ROAD PAVING DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 11/28/00		DRAWN BY: S.A.M.		PROJECT NO.: 992339
SCALE: AS NOTED		APPRVD BY: R.W.B.		SHEET 9 OF 27



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 1/11/04

NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) SHOEMAKER BAY LOOP ROAD PAVING DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 10 of 27



CURVE DATA
RAD. = 1007.11'
ARC = 693.57'
TAN. = 361.18'
CHORD = S 42°22'39" E, 679.95'
Δ = 39°27'29"

PAVE APRON AROUND HYDRANT
STA 38+98, 21.1' LT.

ADJUST VALVE BOX PER DETAIL (1/23) TYPICAL

PAVE AROUND HYDRANT
STA 43+17.6, 21.9' LT.

ADJUST MANHOLE LID PRIOR TO PAVING
PER DETAIL (4/23) TYPICAL

END NEW PAVEMENT
STA 44+44.33

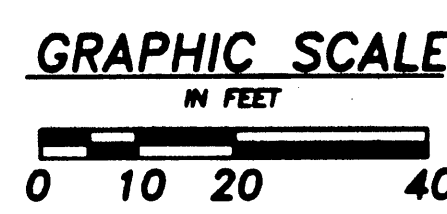
LOT 18 TRACT 2-B
OWNER-LEE & MARGIE BYRD

LOT 17A
OWNER-JEROME & JUDITH BAKEBURG

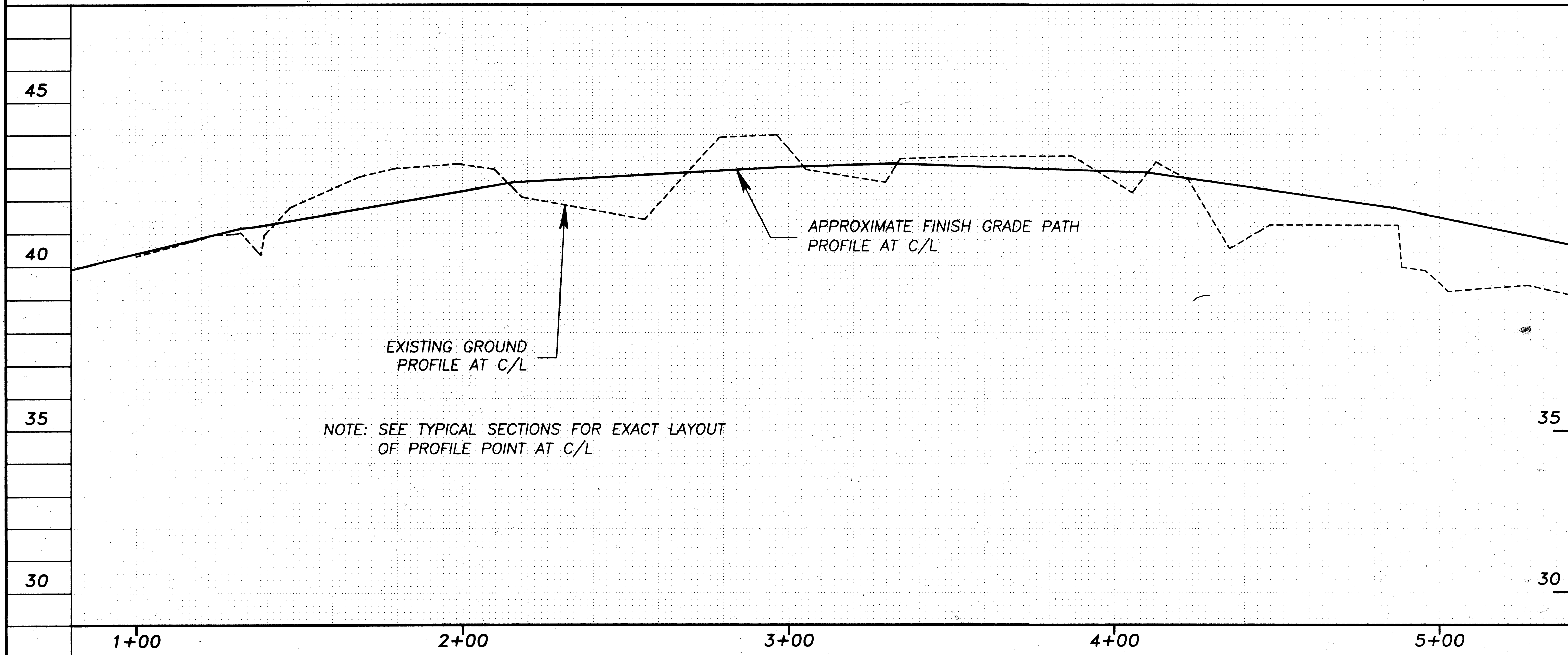
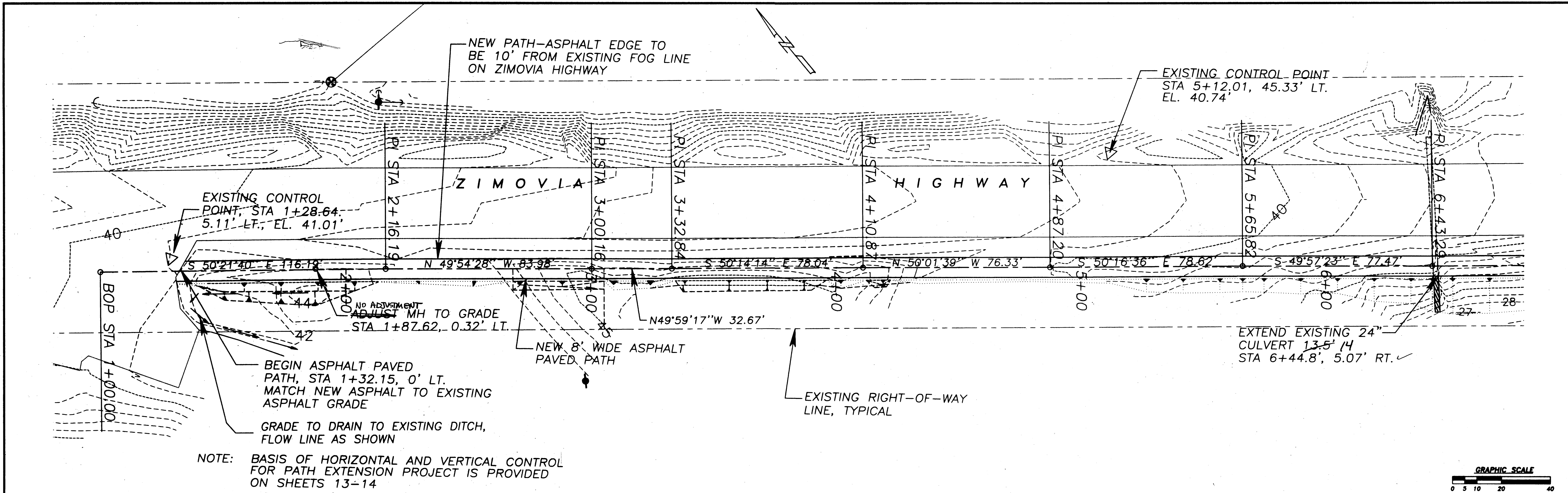
LOT 17B
BRETT WOODBURY

U.S. SURVEY 2598

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Jim Buge* Date *2/14/04*



NO.	DATE	REVISION	BY	APPROV
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) SHOEMAKER BAY LOOP ROAD PAVING DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 11/28/00		DRAWN BY: S.A.M.		PROJECT NO.: 992339
SCALE: AS NOTED		APPROV BY: R.W.B.		SHEET 11 OF 27



40

45

35

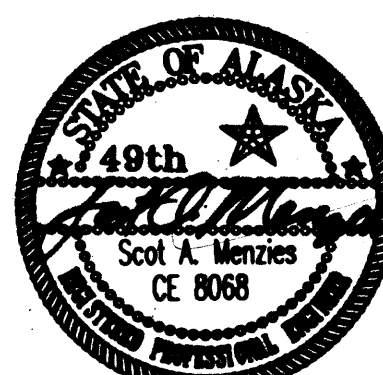
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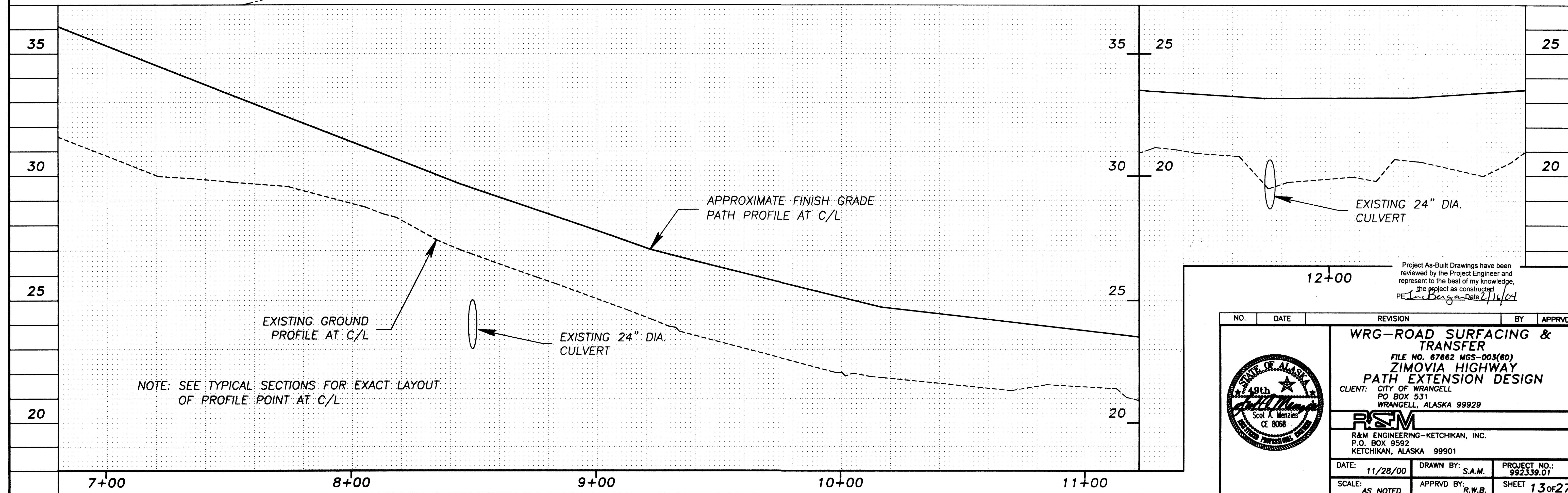
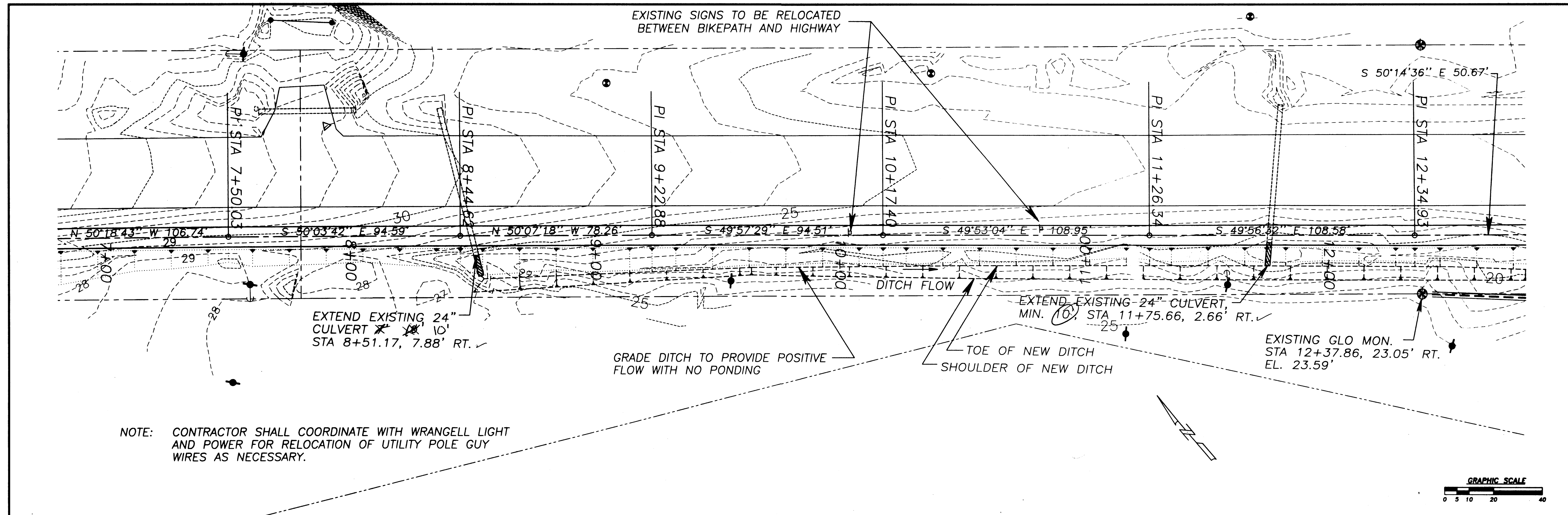
EXISTING 24" DIA. CULVERT

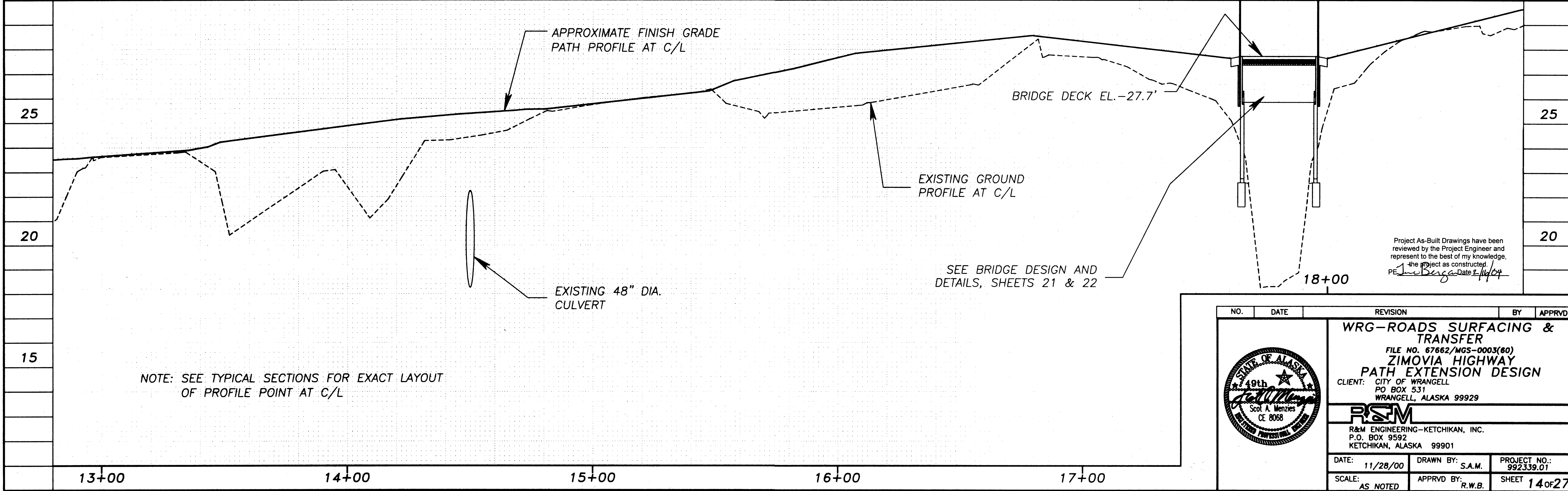
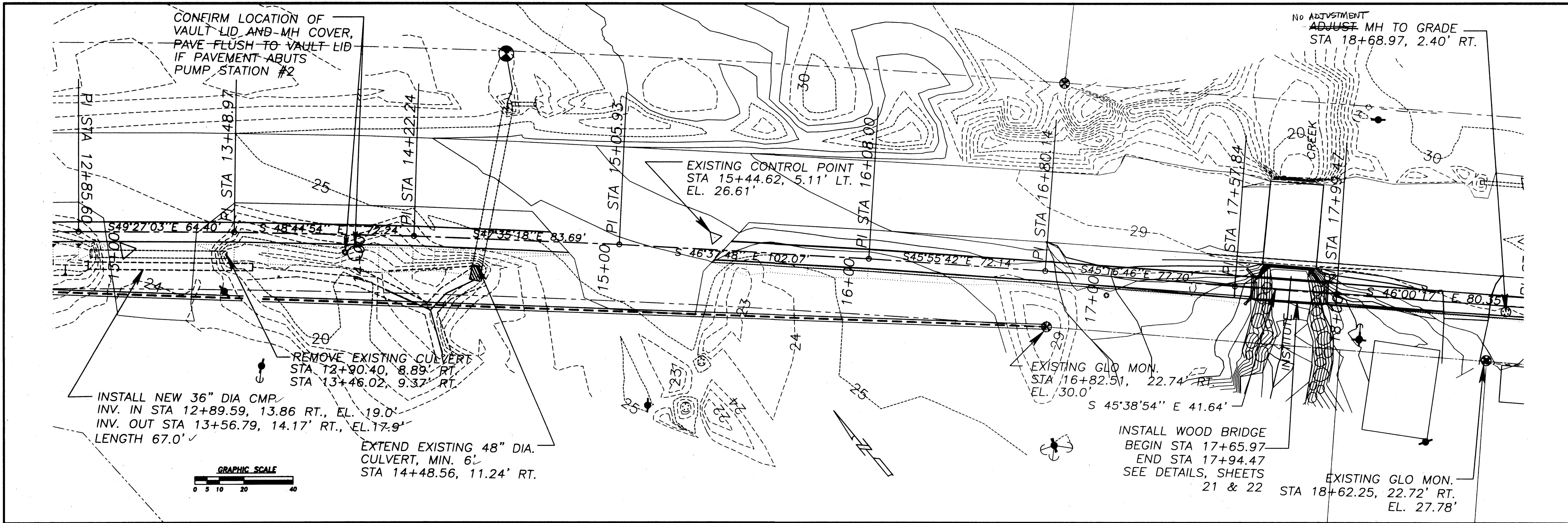
6+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE *Jim Bengtson* Date *2/16/04*

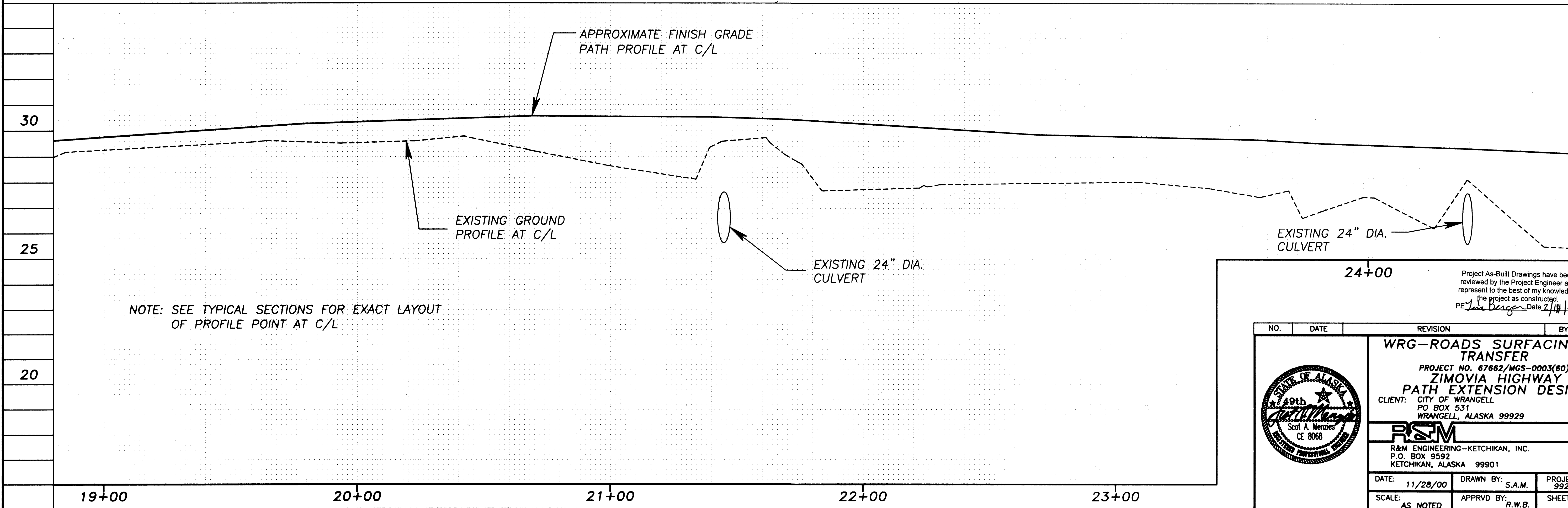
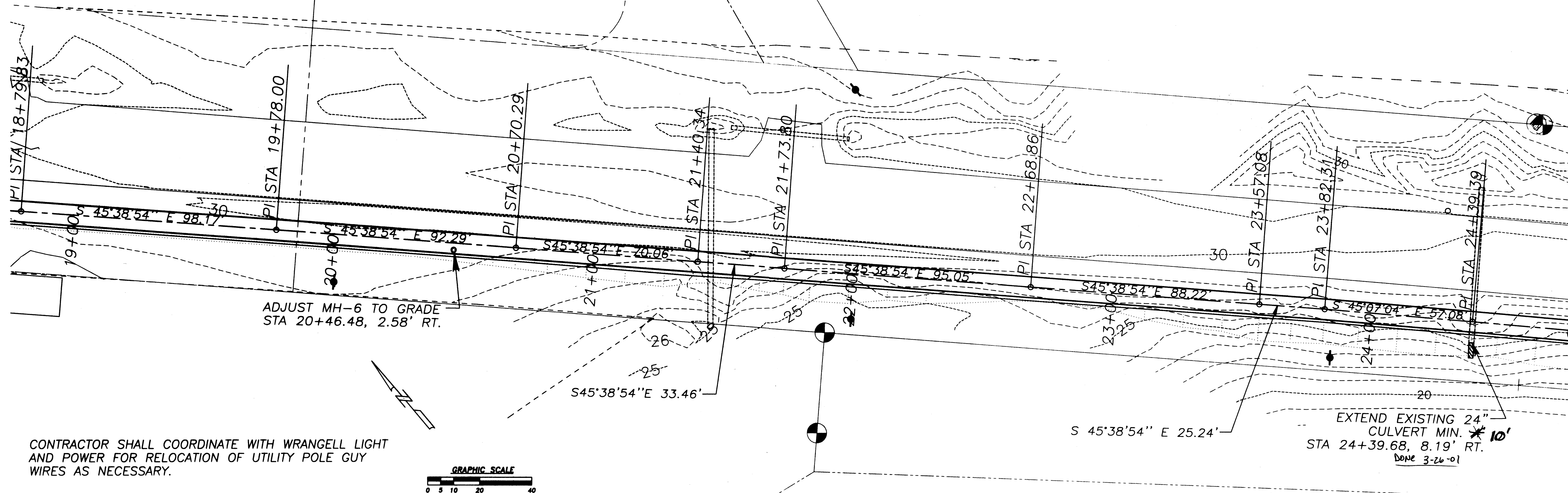
NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(80) ZIMOVLIA HIGHWAY PATH EXTENSION DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929  R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/88	DRAWN BY:	S.A.M.	PROJECT NO.:
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	992339.01
				SHEET 12 of 27





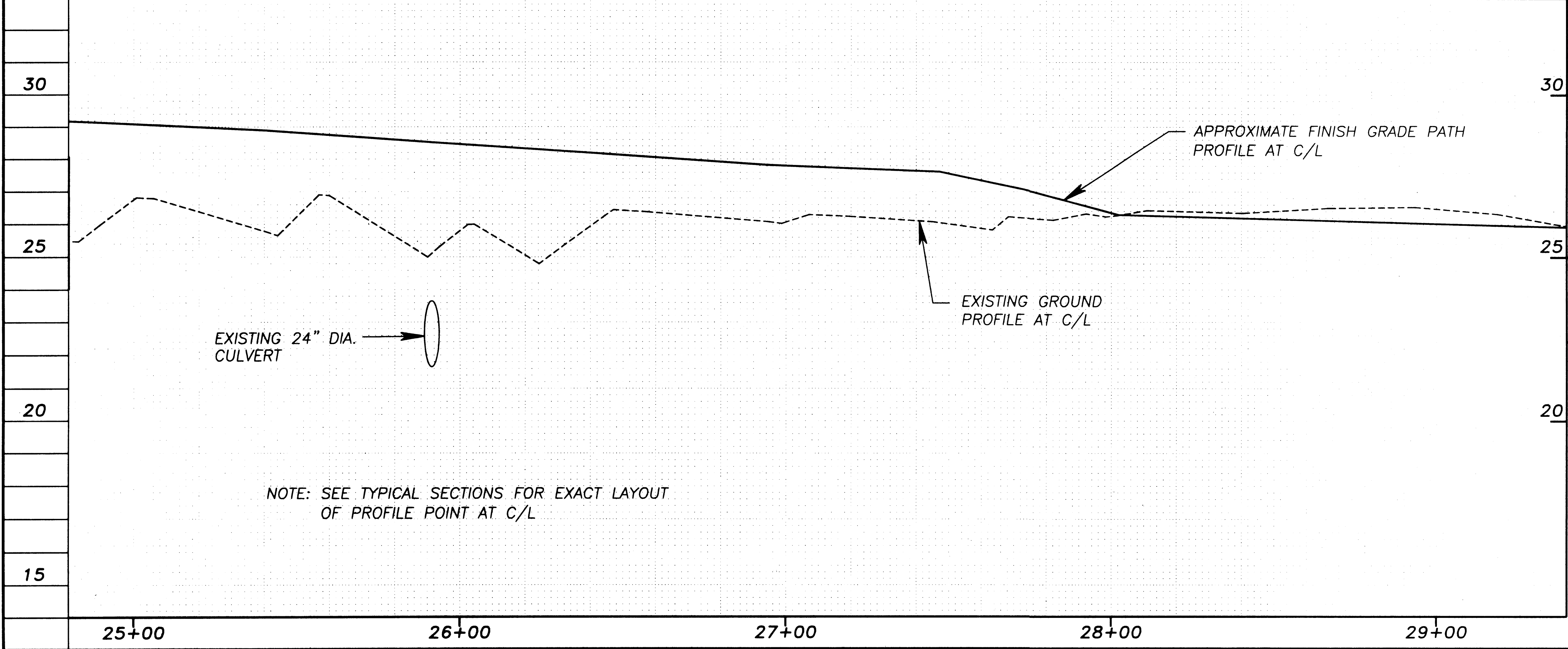
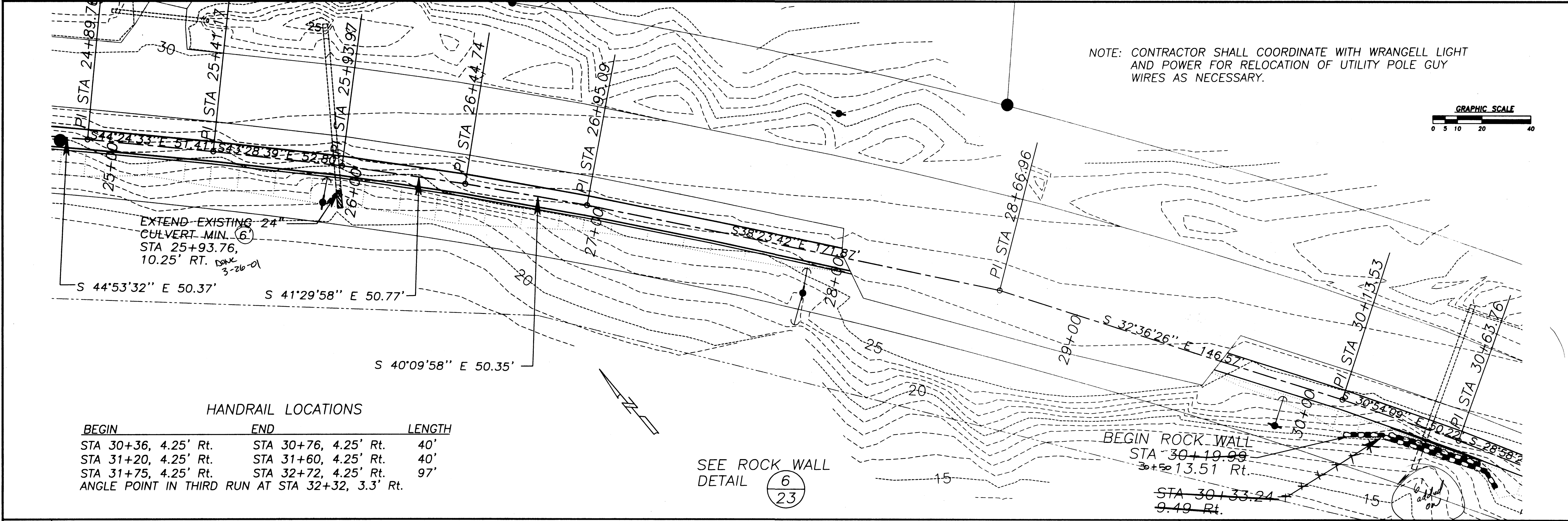
NO.	DATE	REVISION	BY	APPRVD
WRG-ROADS SURFACING & TRANSFER				
FILE NO. 67662/MGS-0003(80)				
ZIMOVIYA HIGHWAY				
PATH EXTENSION DESIGN				
CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929				
R&M				
R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 14 of 27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 1/14/04



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Jan Berger* Date *2/14/04*

NO.	DATE	REVISION	BY	APPRD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ZIMOVIA HIGHWAY PATH EXTENSION DESIGN CLIENT: CITY OF WRANGELL P.O. BOX 531 WRANGELL, ALASKA 99929				
R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE: 11/28/00		DRAWN BY: S.A.M.		PROJECT NO.: 992339.01
SCALE: AS NOTED		APPRD BY: R.W.B.		SHEET 15 of 27



HANDRAILS PER DETAILS 5, 8, & 9, SHEET 23
BEGIN STA 30+26
END STA 30+66

ROCK WALL PROFILE
NOT TO BE USED FOR LAYOUT OF INDIVIDUAL STONES, SEE DETAIL 6/23

EXISTING 24" DIA. CULVERT

30+00

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Jim Berger* Date 7/16/04

NO.	DATE	REVISION	BY	APPRVD

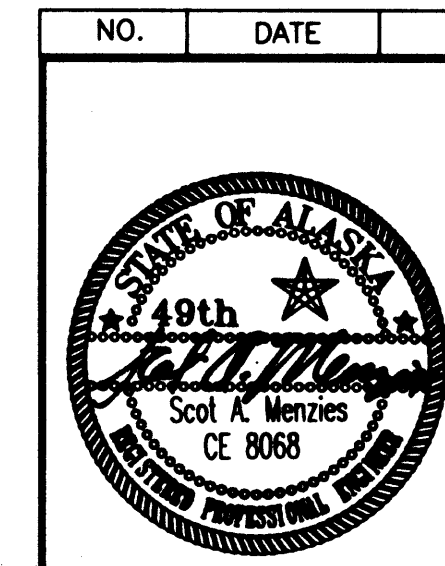
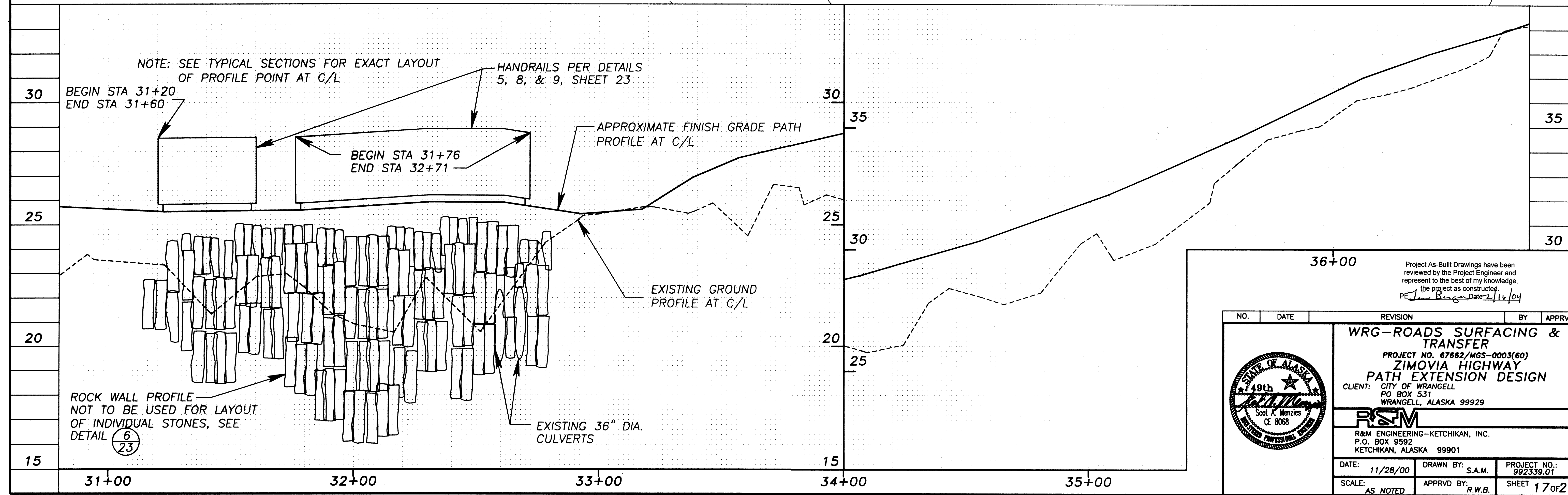
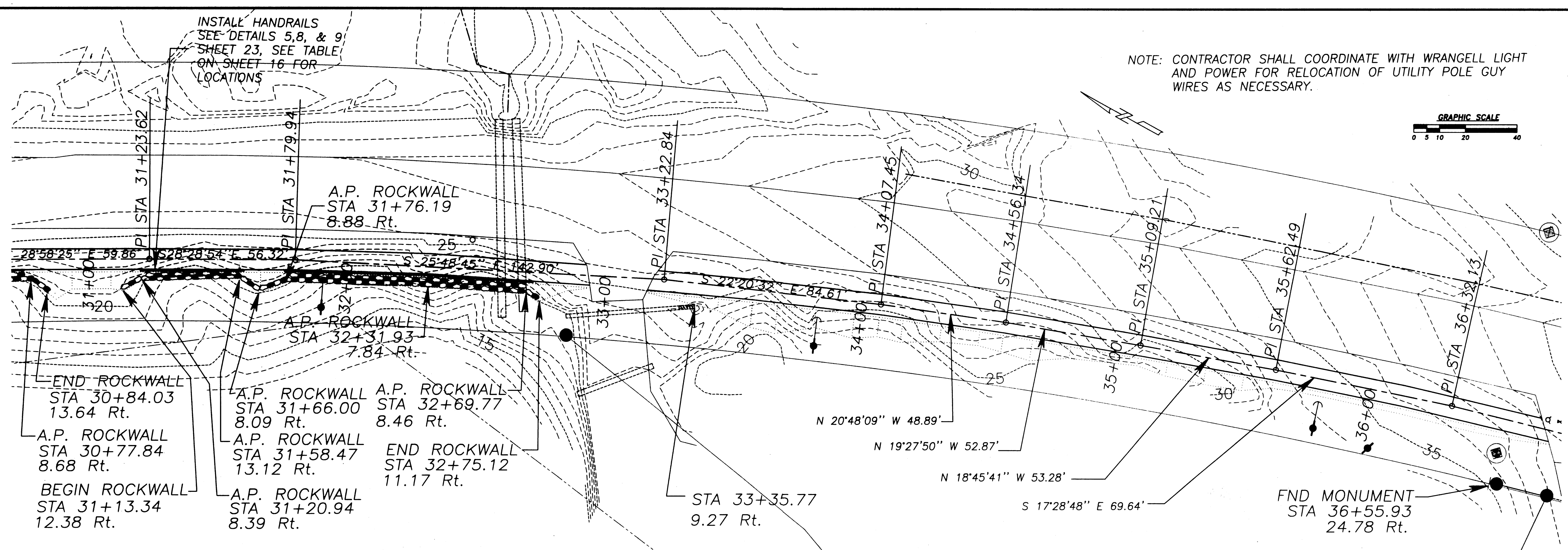
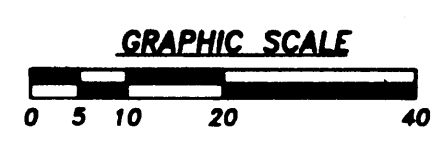
WRG-ROADS SURFACING & TRANSFER
FILE NO. 67662/MGS-0003(60)
ZIMOVIA HIGHWAY
PATH EXTENSION DESIGN
CLIENT: CITY OF WRANGELL
PO BOX 531
WRANGELL, ALASKA 99929

RSM
R&M ENGINEERING-KETCHIKAN, INC.
P.O. BOX 9592
KETCHIKAN, ALASKA 99901

DATE: 11/28/00 DRAWN BY: S.A.M. PROJECT NO.: 992339.01
SCALE: AS NOTED APPRVD BY: R.W.B. SHEET 16 of 27

INSTALL HANDRAILS
SEE DETAILS 5, 8, & 9
SHEET 23, SEE TABLE
ON SHEET 16 FOR
LOCATIONS

NOTE: CONTRACTOR SHALL COORDINATE WITH WRANGELL LIGHT
AND POWER FOR RELOCATION OF UTILITY POLE GUY
WIRES AS NECESSARY.

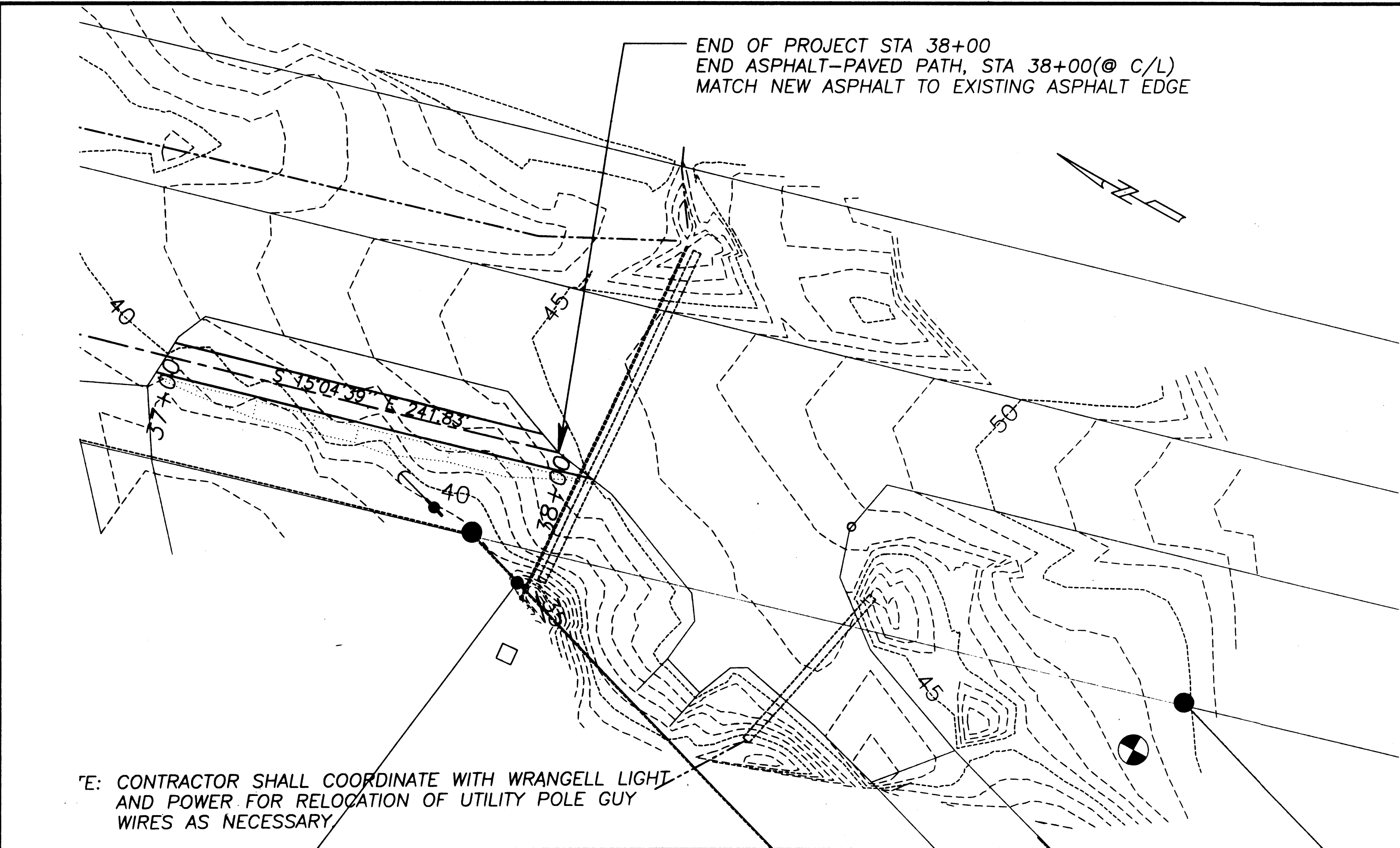


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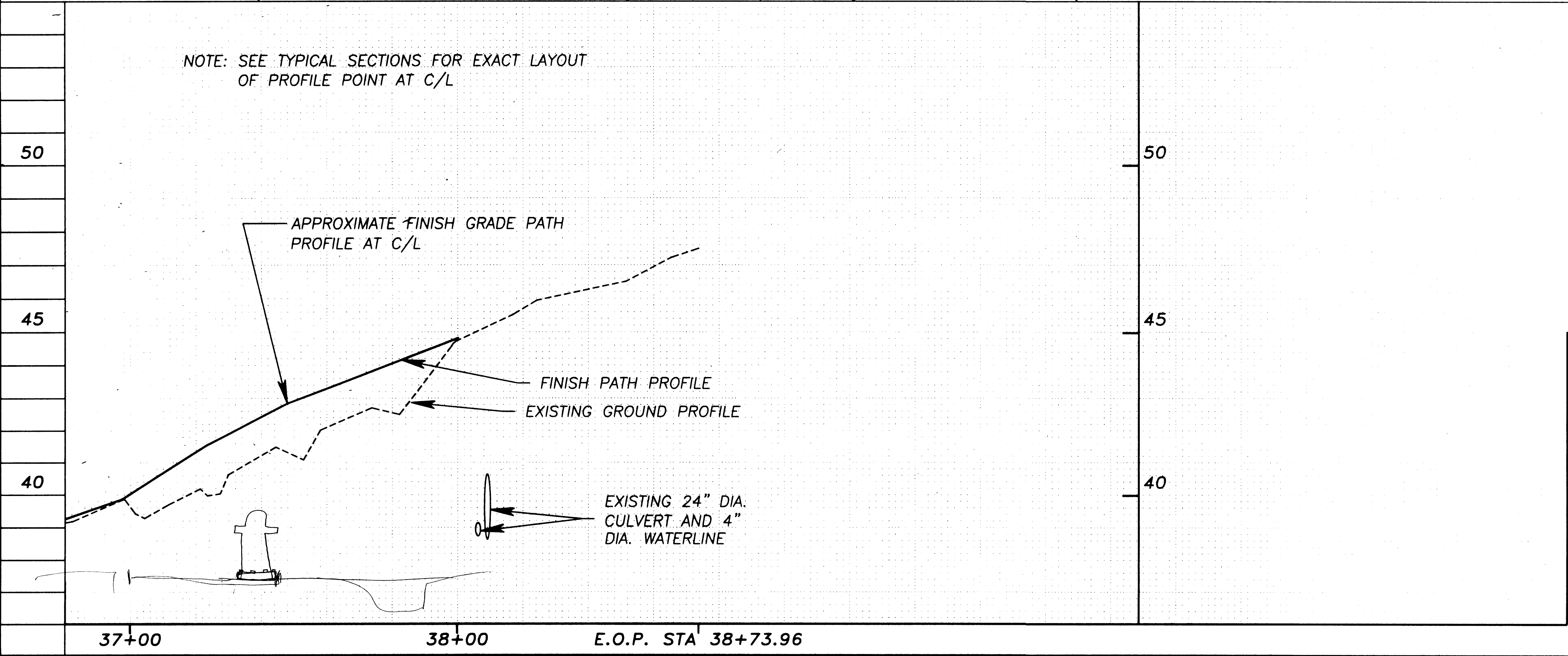
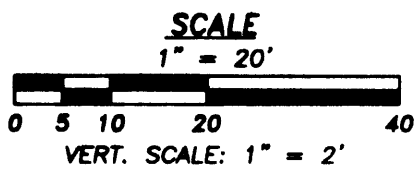
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE June Benge Date 2/14/04

REVISION	BY	APPRVD
----------	----	--------

WRG-ROADS SURFACING & TRANSFER			
PROJECT NO. 67662/MGS-0003(60)			
ZIMOVIA HIGHWAY			
PATH EXTENSION DESIGN			
CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929			
R&M			
R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901			
DATE:	11/28/00	DRAWN BY: S.A.M.	PROJECT NO.: 992339.01
SCALE: AS NOTED	APPRVD BY: R.W.B.	SHEET 17 OF 27	

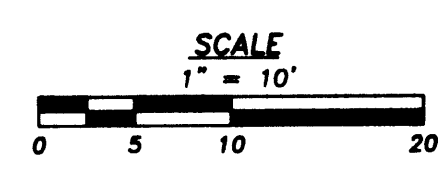
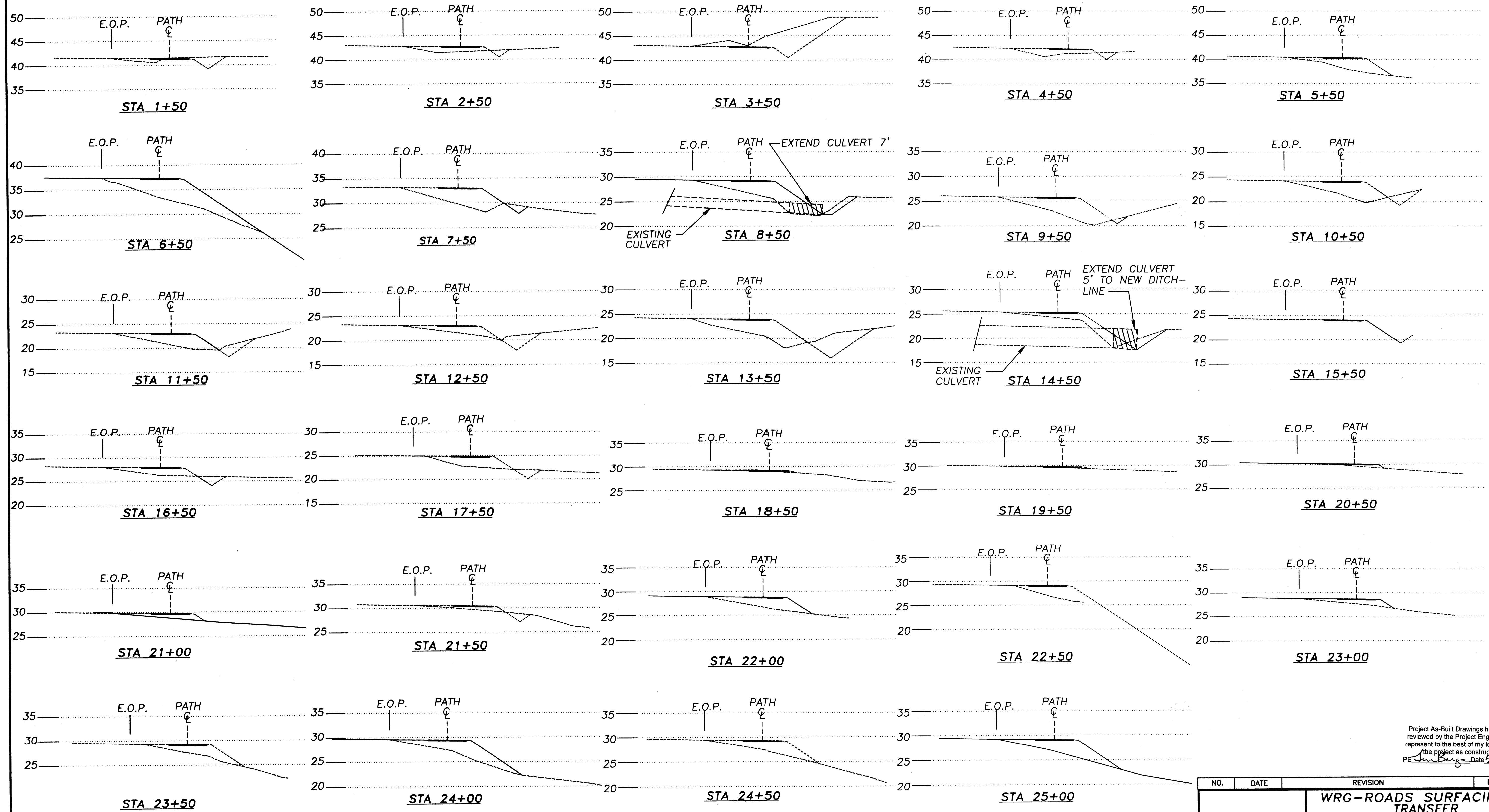


NOTE: CONTRACTOR SHALL COORDINATE WITH WRANGELL LIGHT AND POWER FOR RELOCATION OF UTILITY POLE GUY WIRES AS NECESSARY



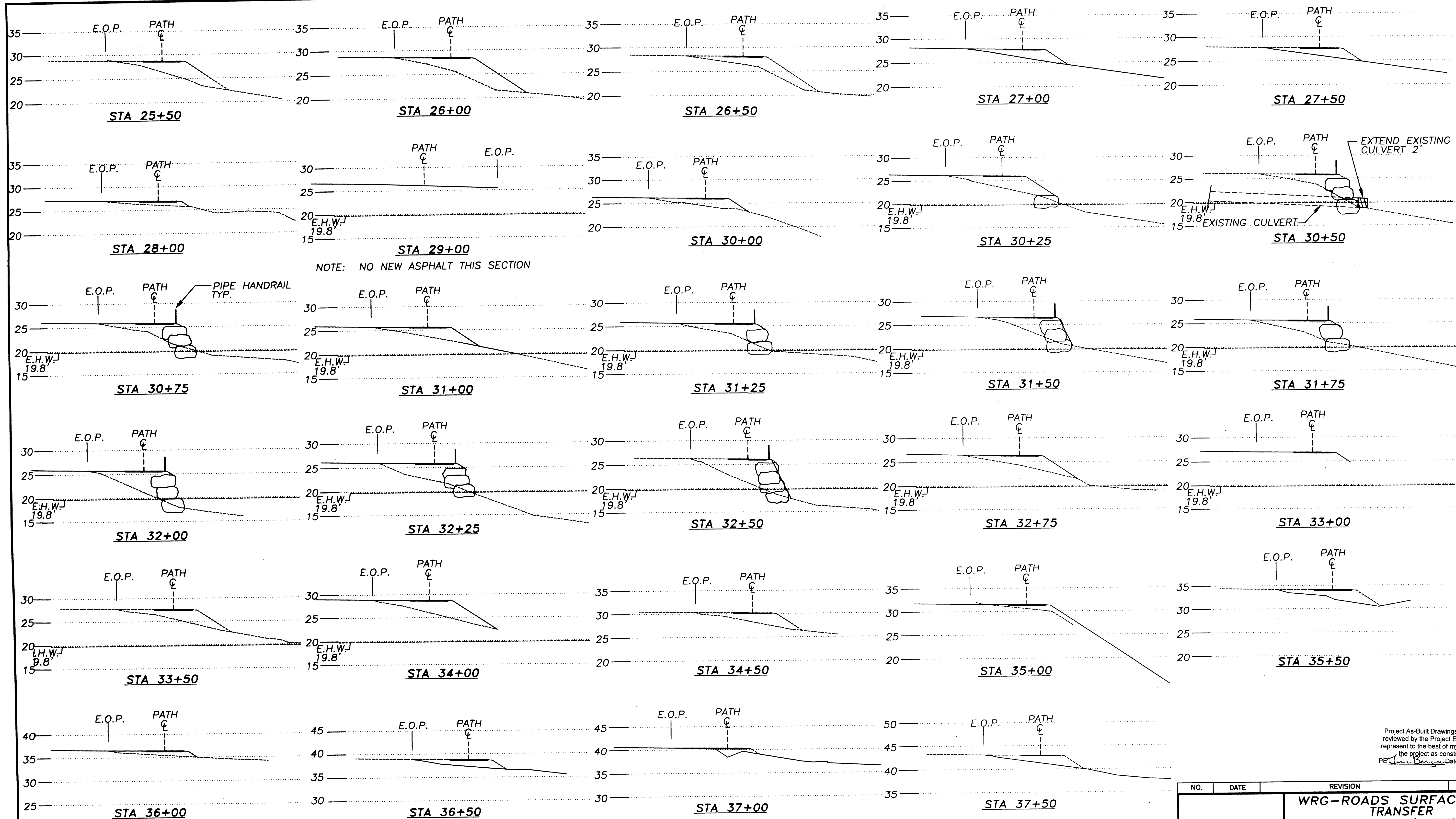
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *Jim Berger* Date: *2/14/09*

NO.	DATE	REVISION	BY	APPRVD
				
WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ZIMOVIA HIGHWAY PATH EXTENSION DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929				
RSM R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 18 of 27



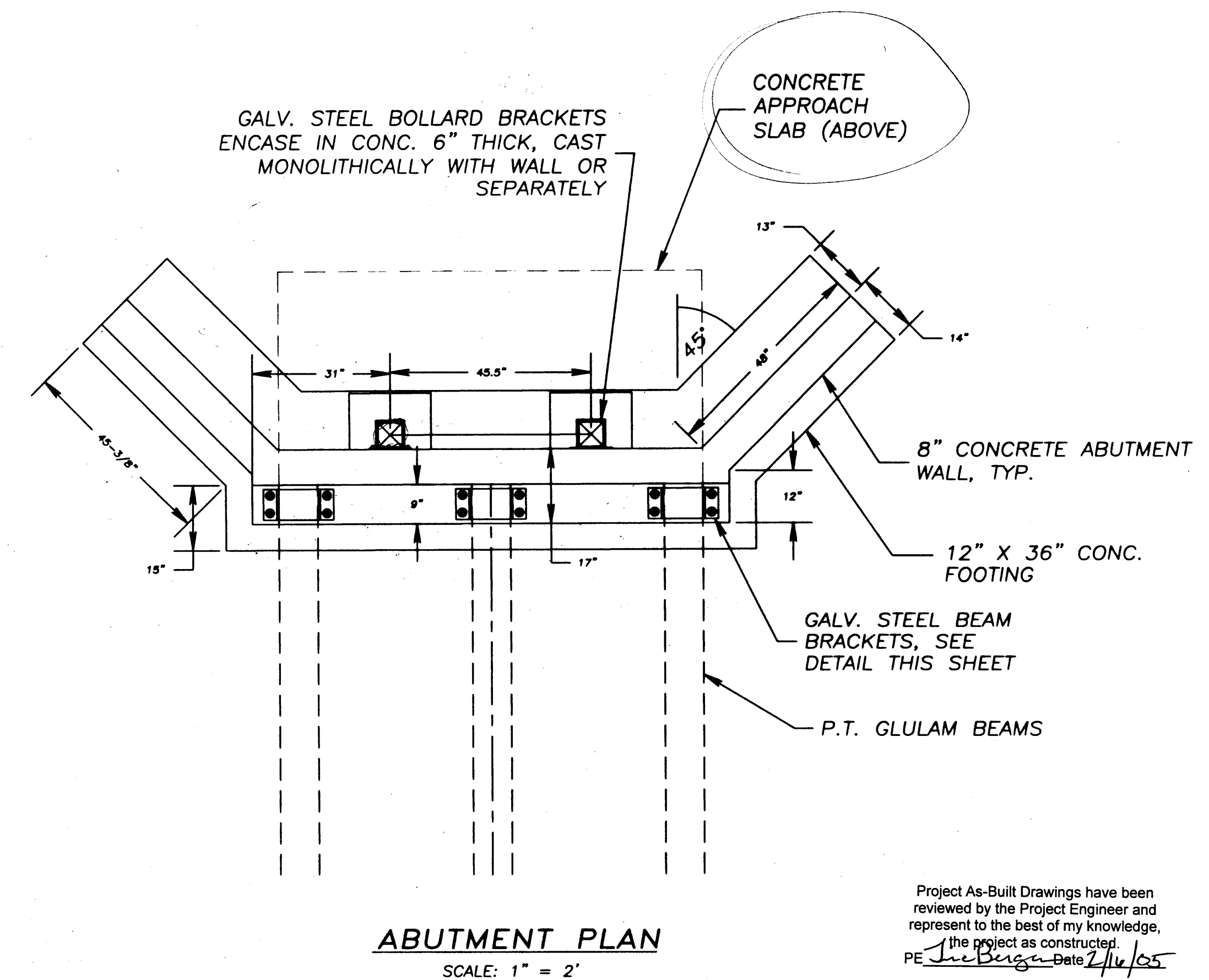
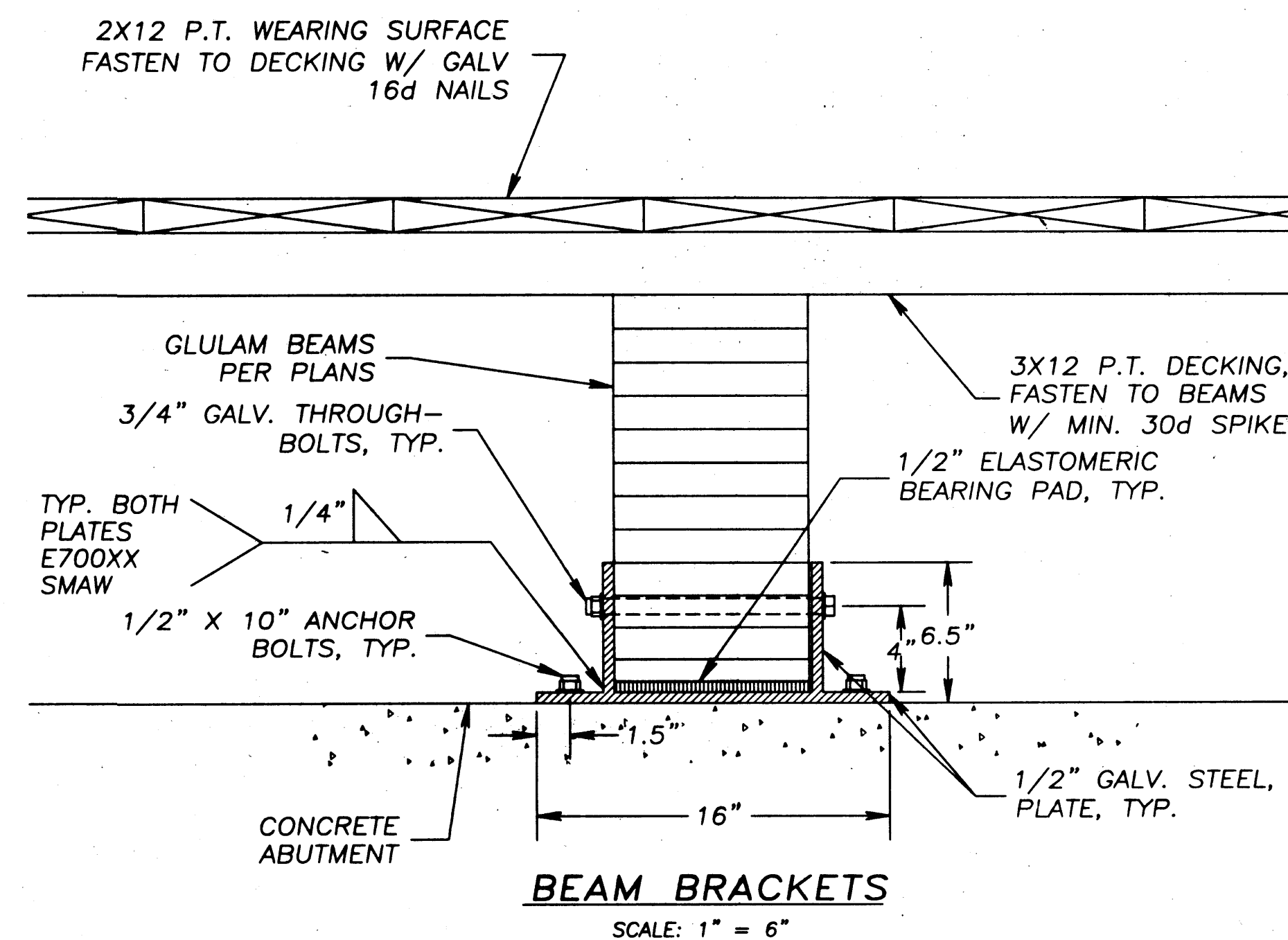
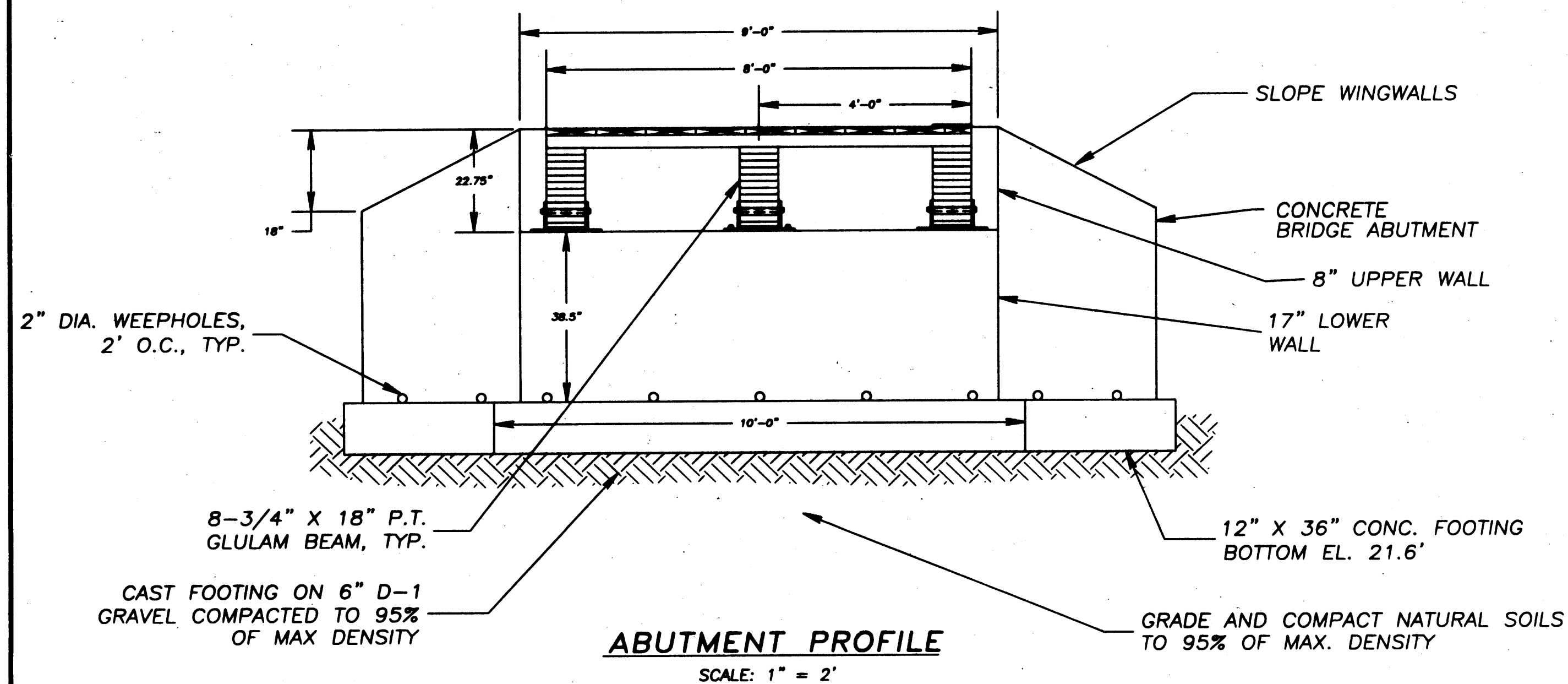
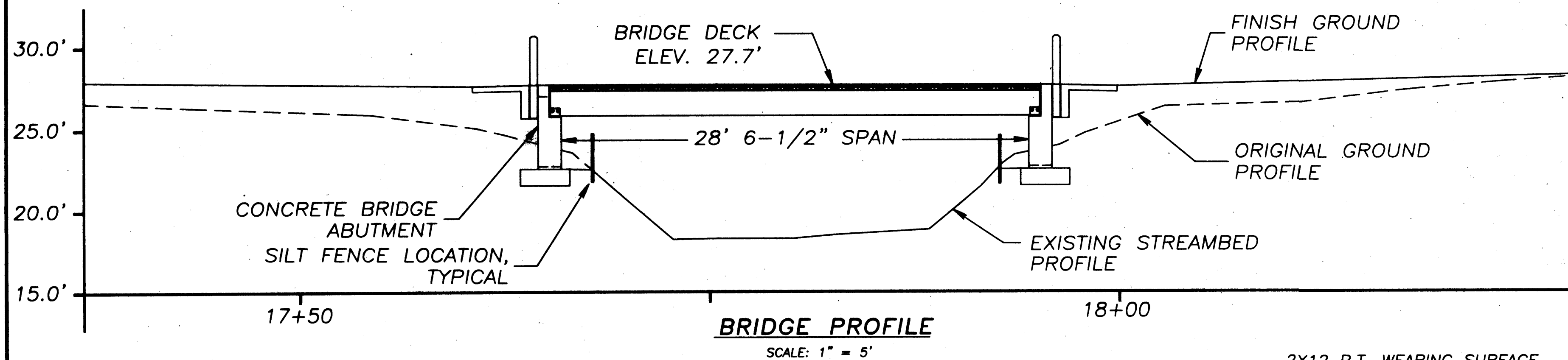
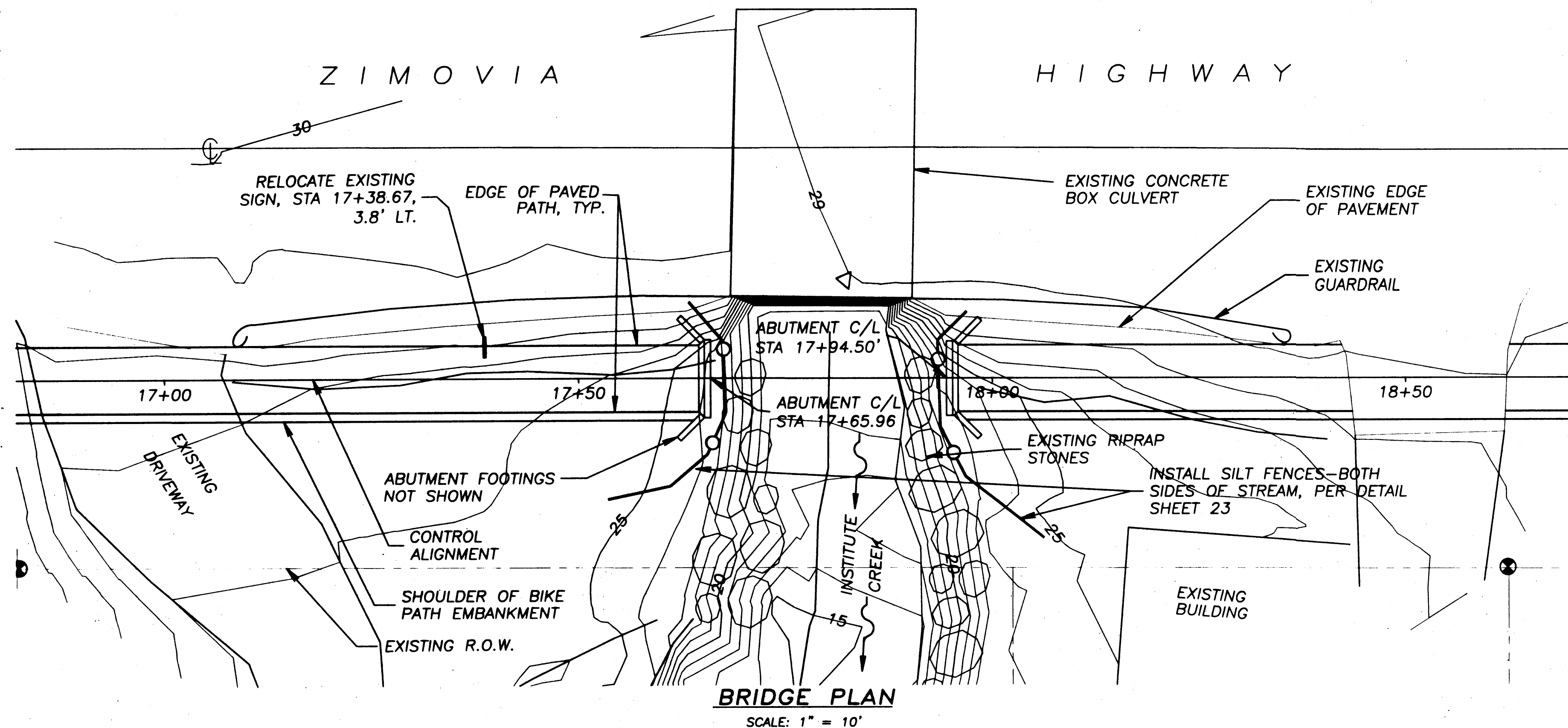
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Jim Buge* Date *2/16/05*

NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ZIMOVIA HIGHWAY PATH EXTENSION DESIGN-SECTIONS CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 19 OF 27



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *Jim Brega* Date: 7/16/05

NO.	DATE	REVISION	BY	APPRVD
 WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ZIMOVIA HIGHWAY PATH EXTENSION DESIGN-SECTIONS CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 20 OF 27

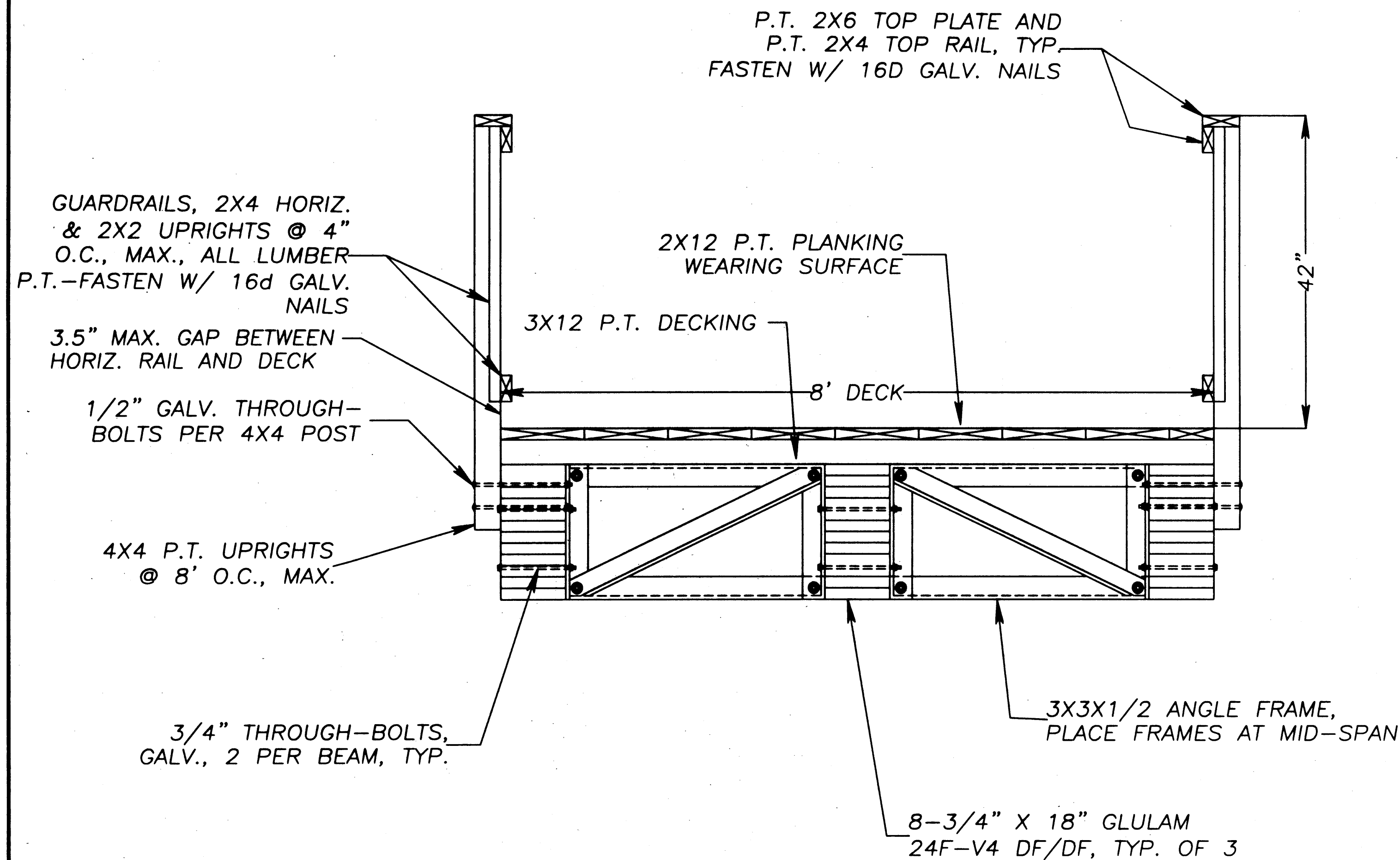


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 7/14/05

BRIDGE DESIGN CRITERIA

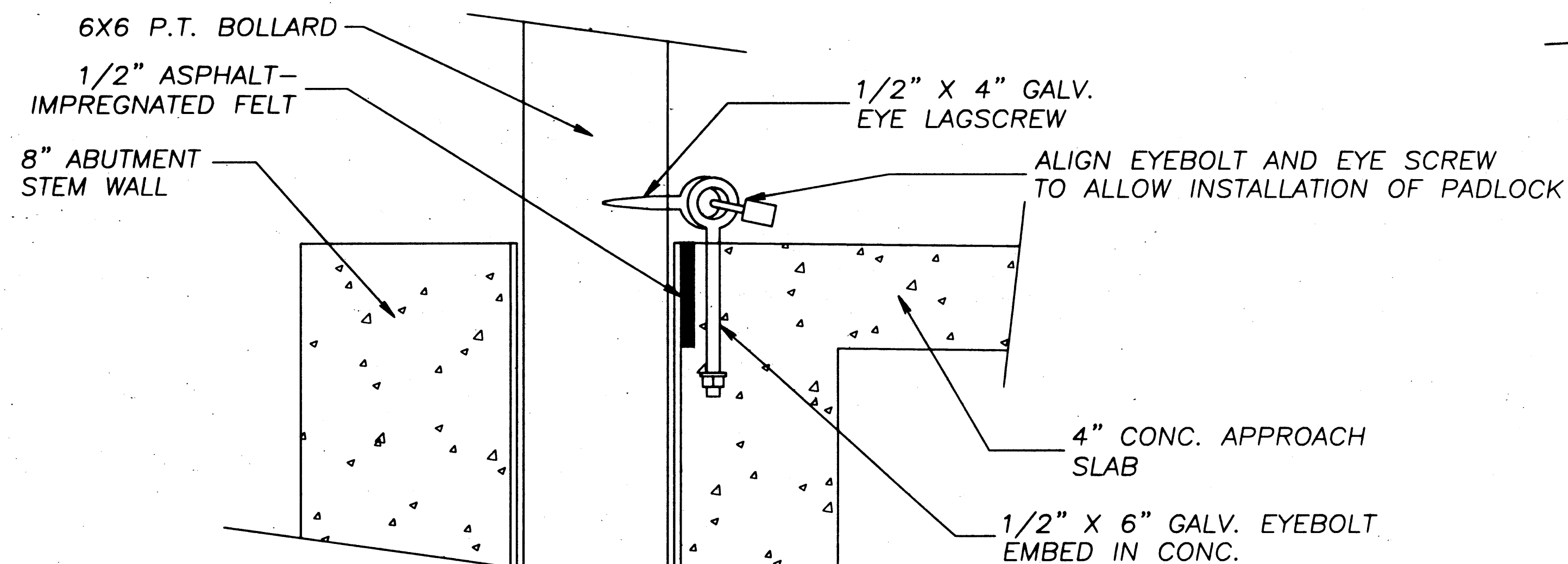
LIVE LOAD	100 PSF
DEAD LOAD	20 PSF
GUARDRAIL HORIZ. LOAD	50 PLF
SOIL BEARING CAPACITY	1500 PSF
GLULAM GRADE/SPECIES	24F-V4 DF/DF
GLULAM TREATMENT/RETENTION	CCA-TREATED TO REFUSAL
LUMBER TREATMENT/RETENTION	ACZA-0.4 PCF
CONCRETE STRENGTH	3000 PSI COMP. @ 28 DAYS
REBAR GRADE	60 KSI
STEEL GRADE	A36

NO.	DATE	REVISION	BY	APPRD
WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ZIMOVIA HIGHWAY PATH EXTENSION-BRIDGE DESIGN CLIENT: CITY OF WRANGELL P.O. BOX 531 WRANGELL, ALASKA 99929				
R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRD BY:	R.W.B.	SHEET 21 OF 27



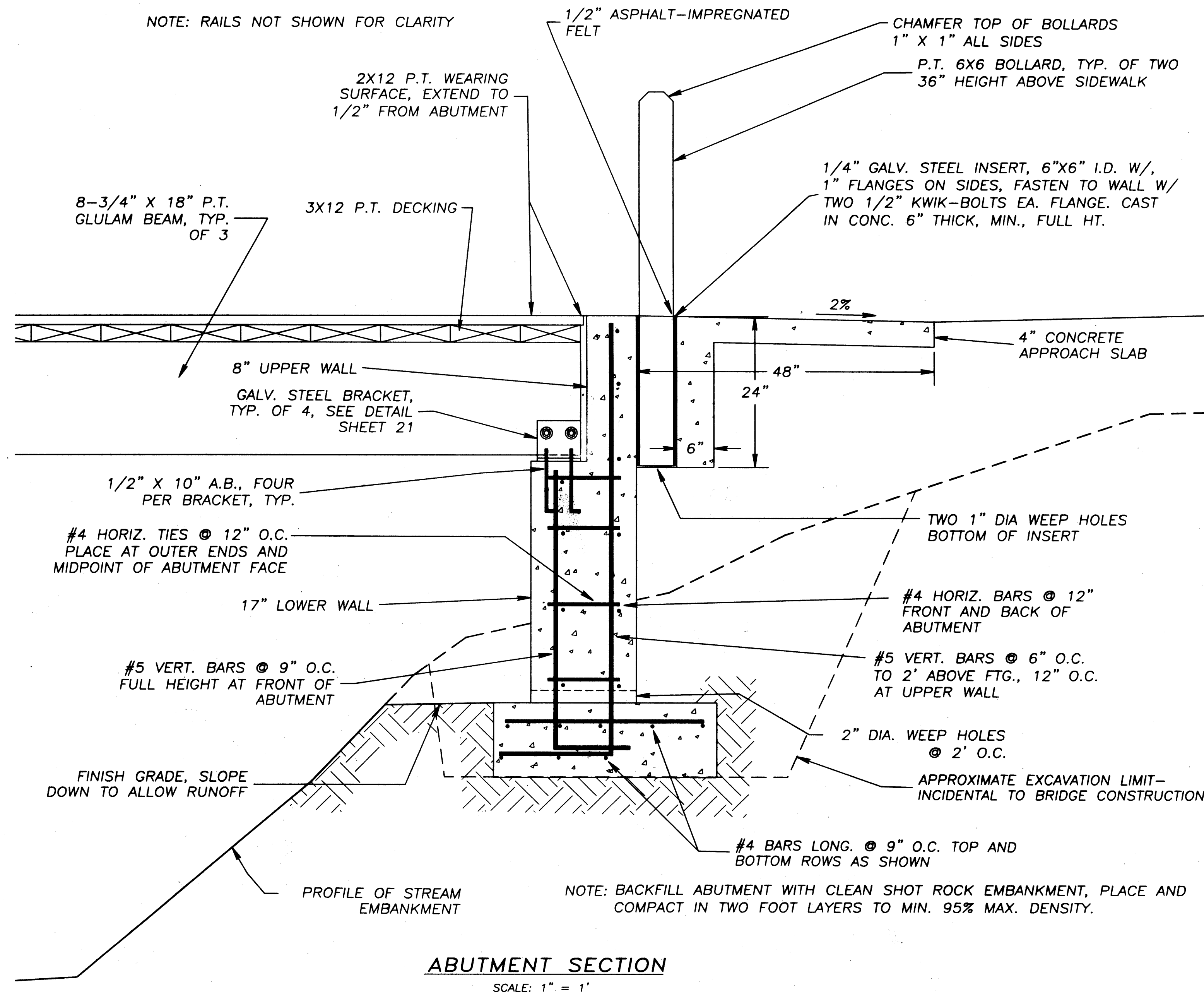
BRIDGE SECTION

SCALE: 1" = 1'



BOLLARD LOCK DETAIL

SCALE: 1/4" = 1"

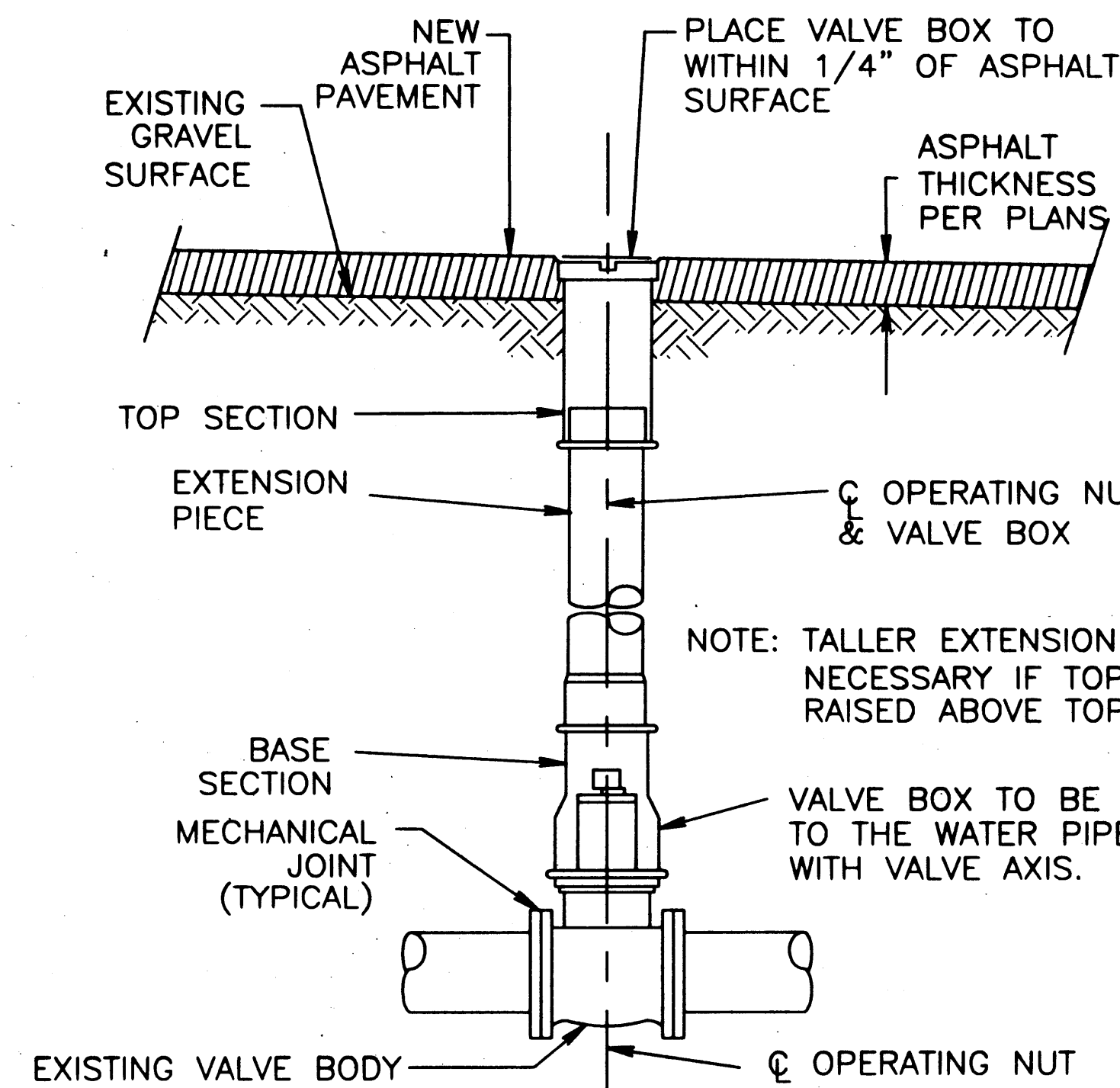


ABUTMENT SECTION

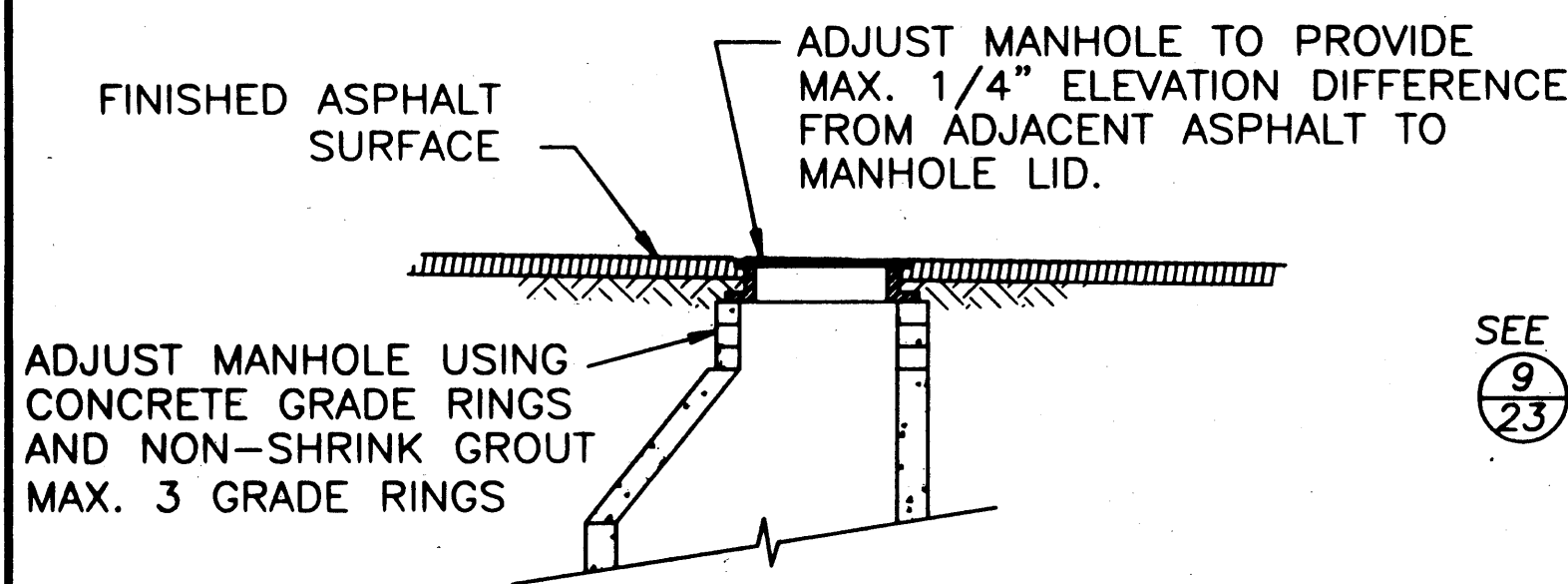
SCALE: 1" = 1'

Project As-Built Drawings have been
reviewed by the Project Engineer and
represent to the best of my knowledge,
the project as constructed.
PE *Jan Berg* Date 2/16/05

NO.	DATE	REVISION	BY	APPRVD
WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) ZIMOVIYA HIGHWAY PATH EXTENSION-BRIDGE DESIGN CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 RSM R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 22 OF 27

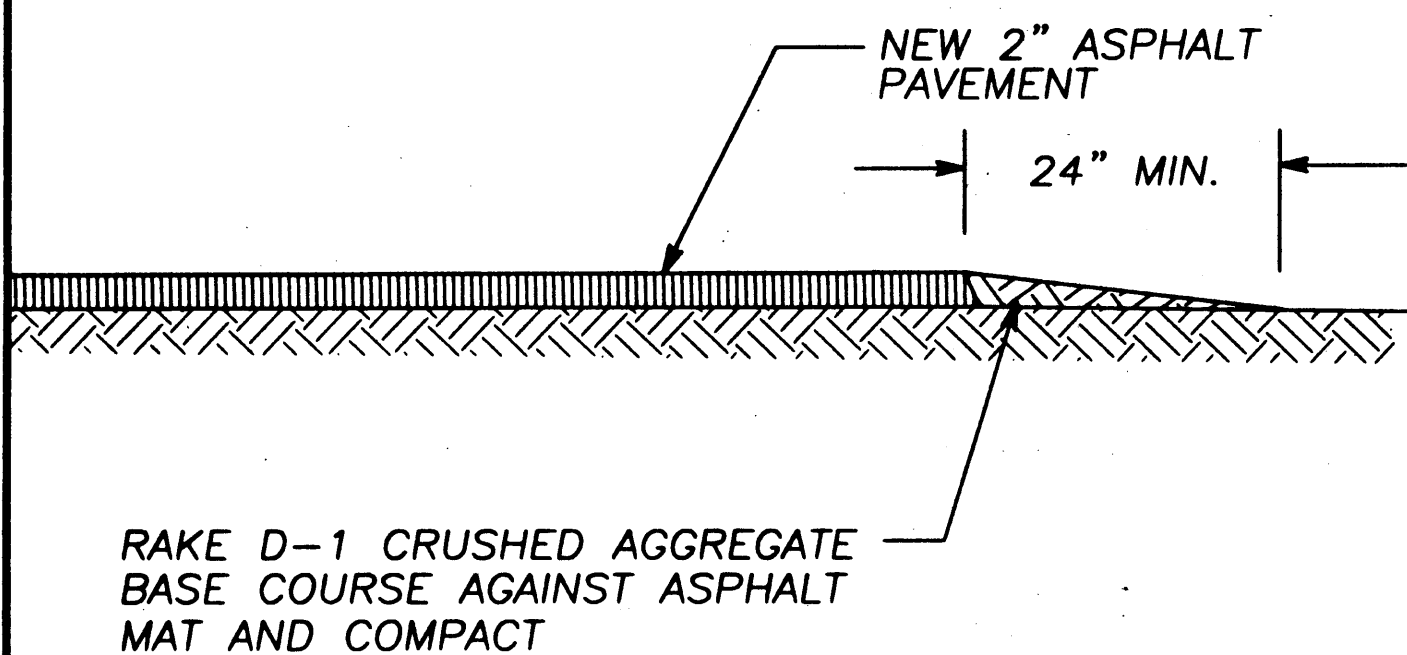


1 WATER VALVE BOX ADJUSTMENT DETAIL
NOT TO SCALE

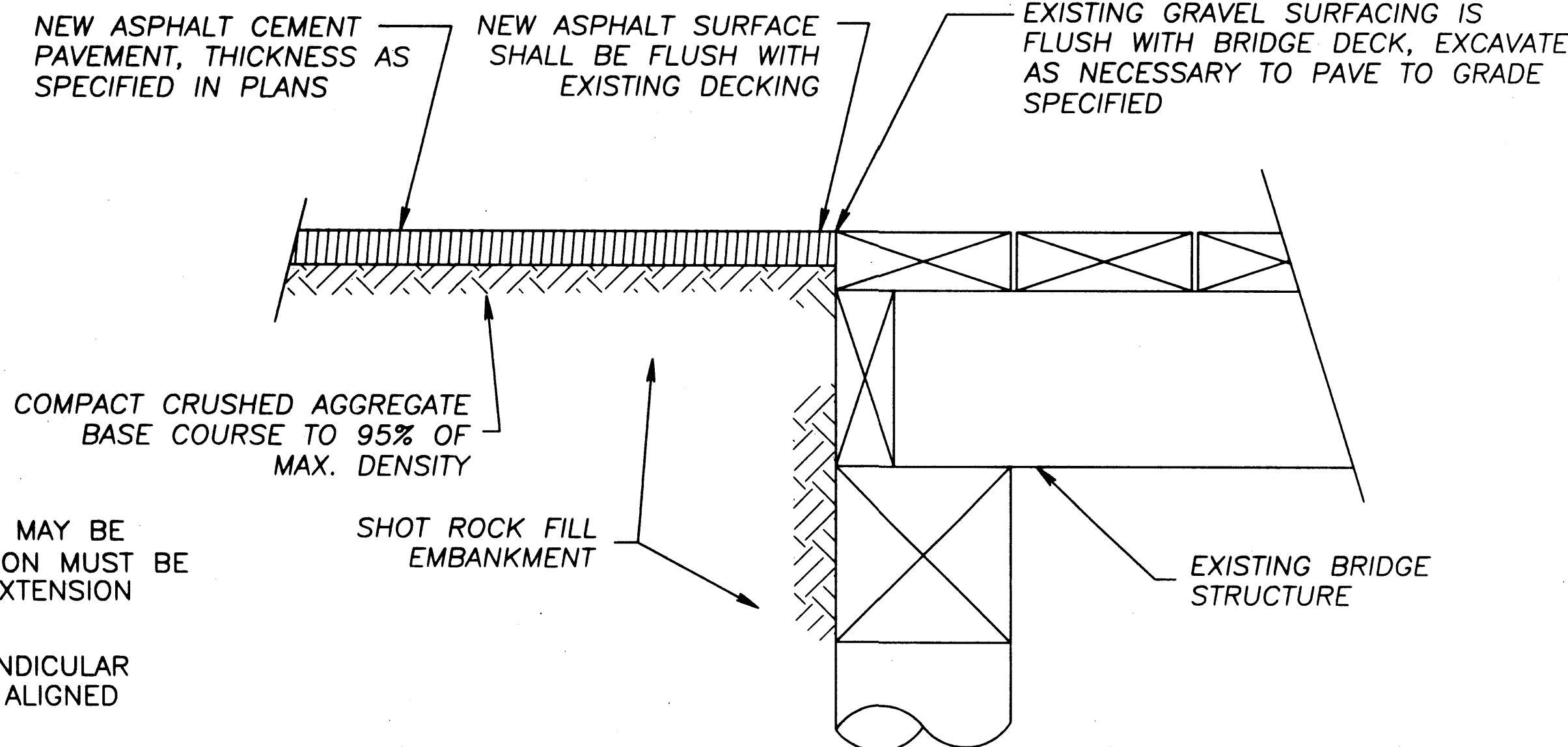


- NOTES:
- MANHOLE LID MUST CONFORM TO THE GRADE AND CROSS SLOPE OF THE STREET. DIMENSION IS TO THE TOP OF EMBOSSED LETTERING IF THIS IS HIGHER THAN THE FRAME.
 - THESE GIVEN HEIGHTS WILL CONFORM TO ALL SANITARY SEWER CLEANOUTS INSTALLED WITHIN THIS CONTRACT.

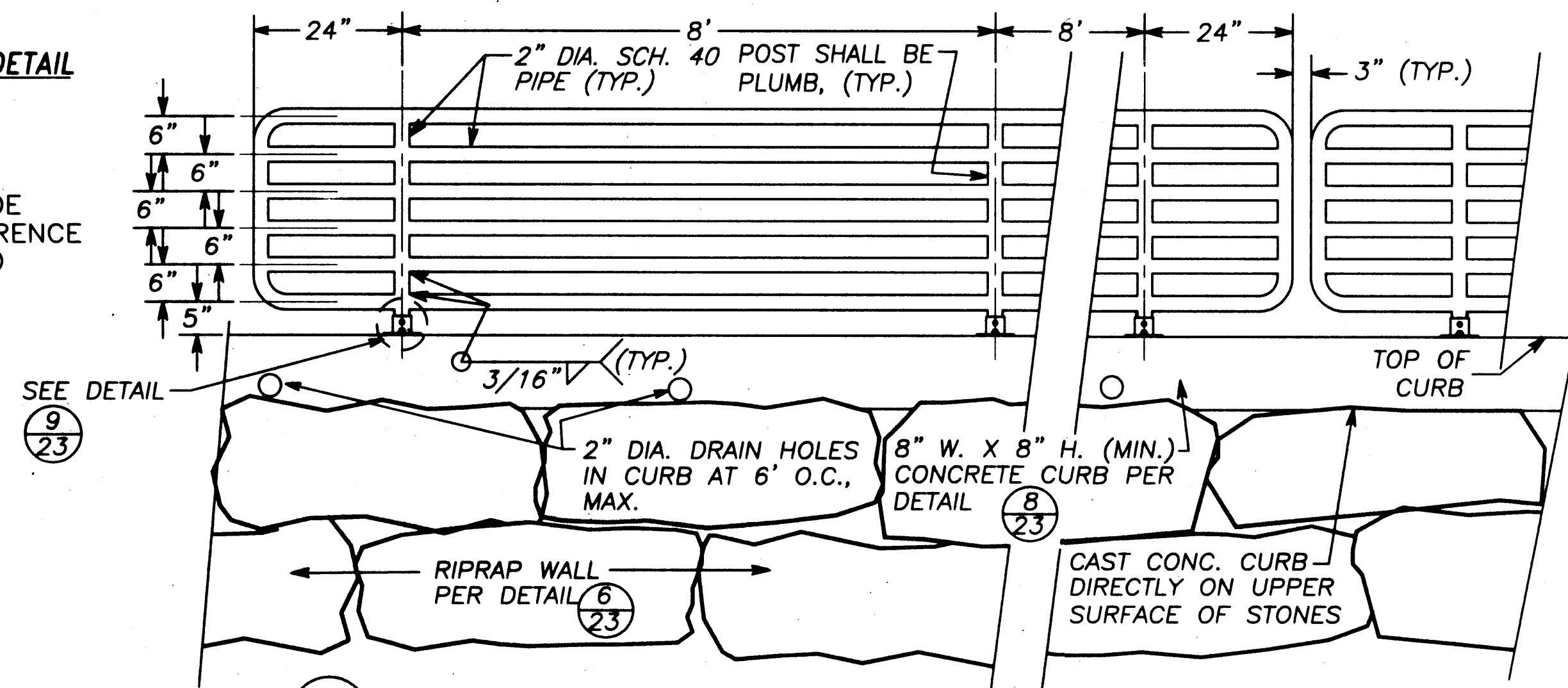
4 MANHOLE ADJUSTMENT DETAIL
NOT TO SCALE



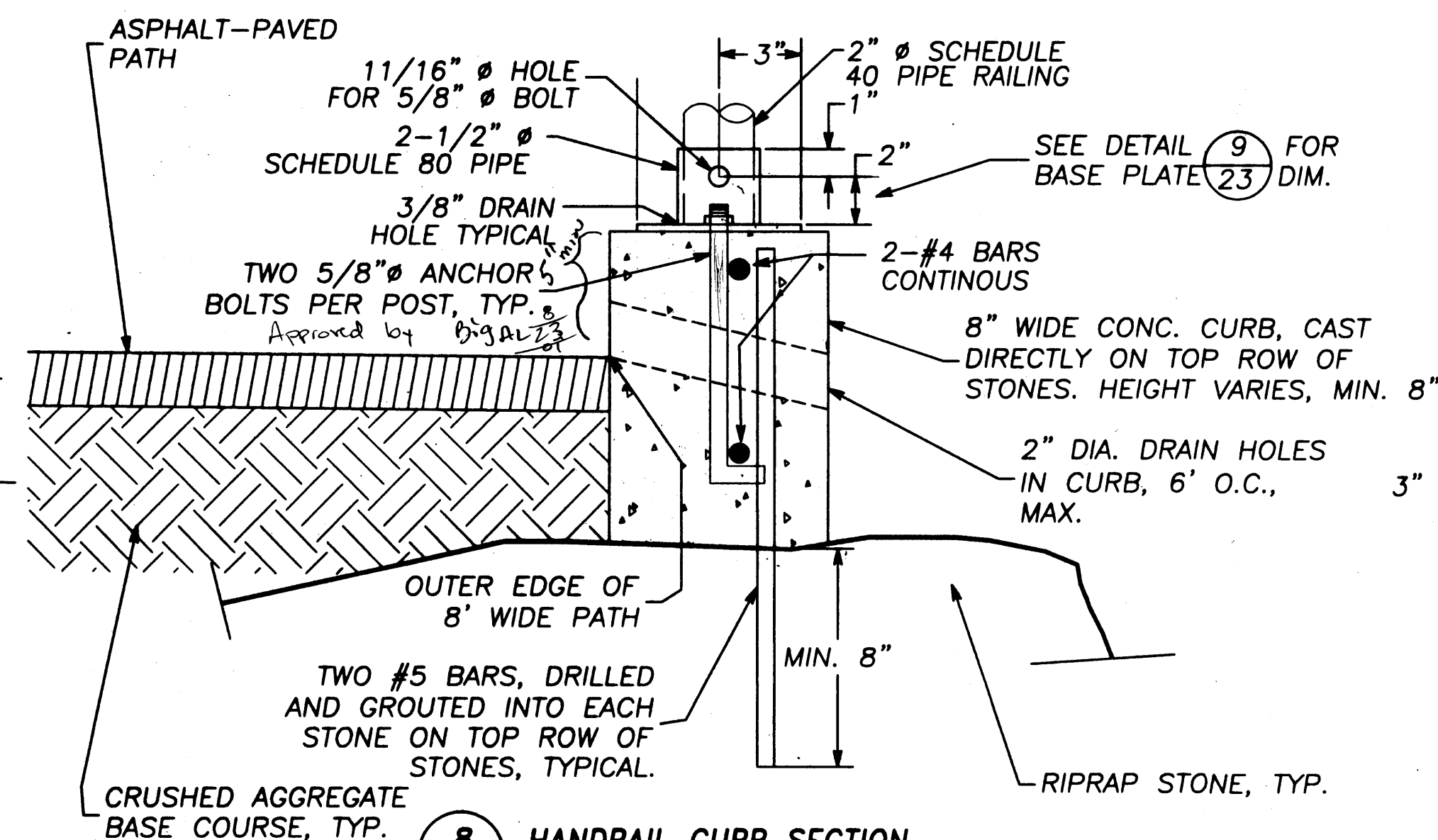
7 ASPHALT EDGE DETAIL
NOT TO SCALE



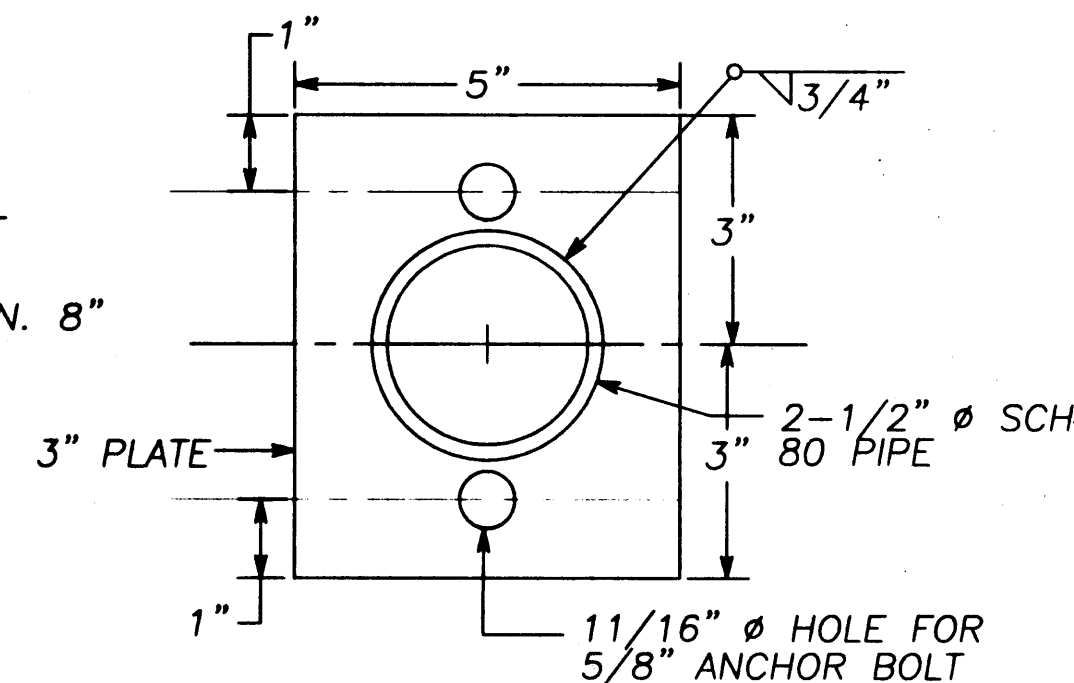
2 PAVE FLUSH TO EXISTING BRIDGE
NOT TO SCALE



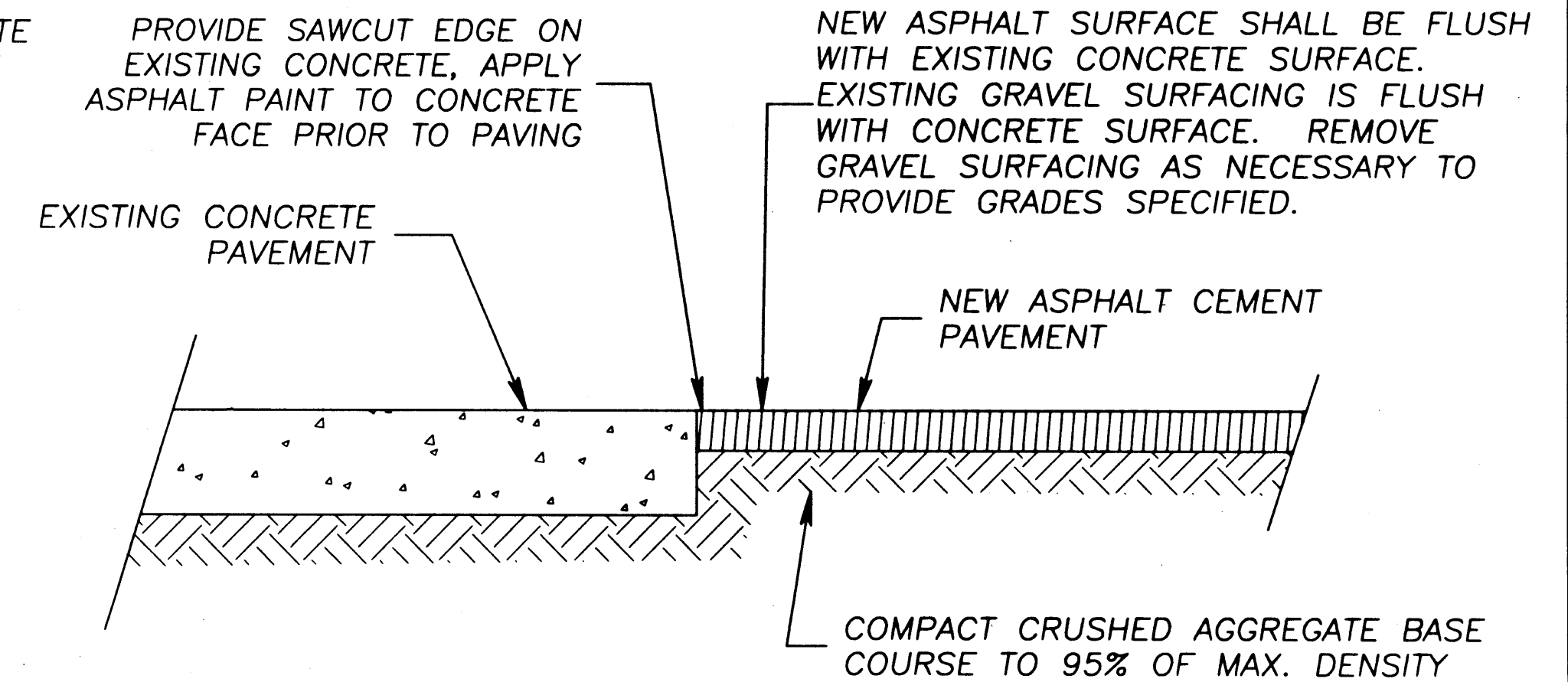
5 HANDRAIL AT ROCKERY WALL-PROFILE
NOT TO SCALE



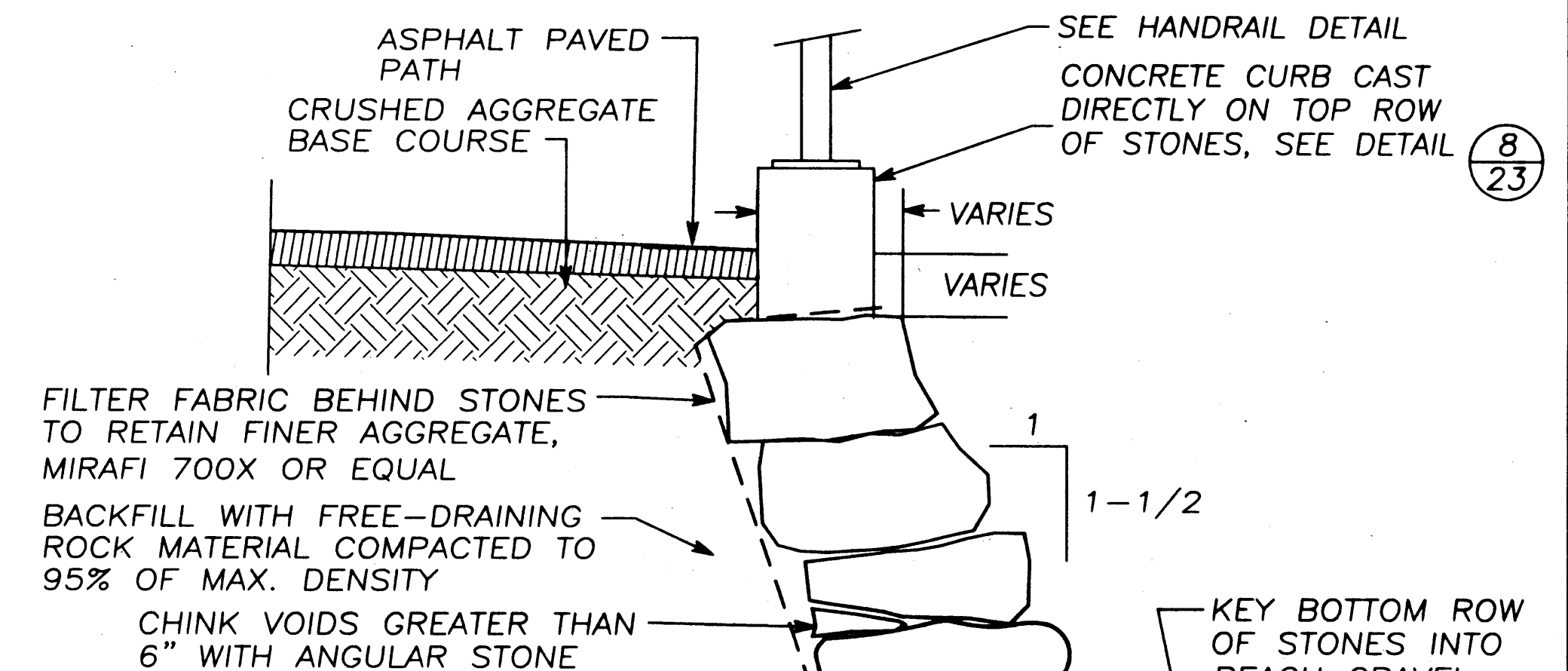
8 HANDRAIL CURB SECTION
NOT TO SCALE



9 HANDRAIL BASE PLATE DETAIL
NOT TO SCALE



3 PAVE FLUSH TO EXISTING CONCRETE
NOT TO SCALE



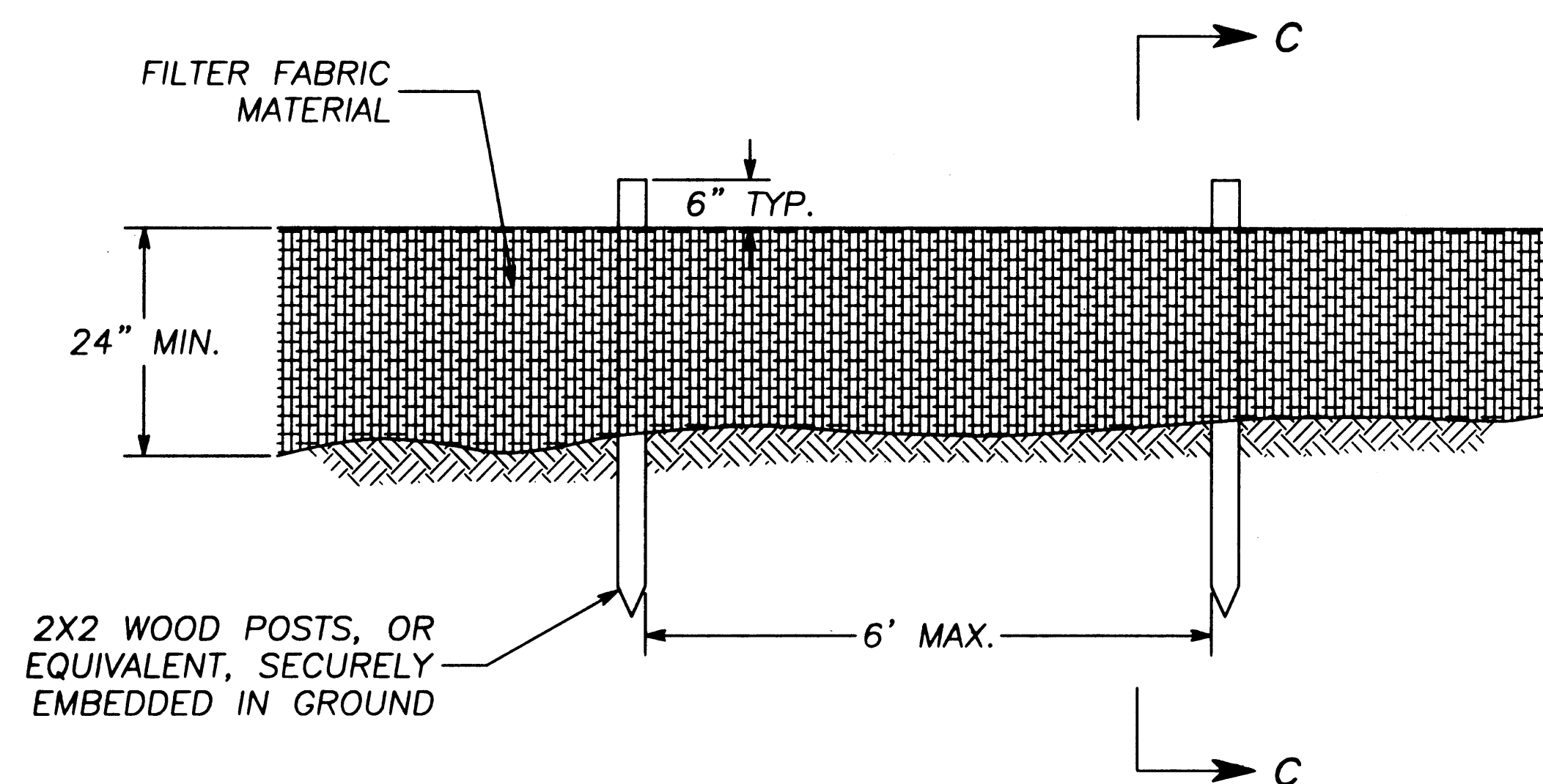
- NOTES
- EACH STONE SHALL BE PLACED SO AS TO BEAR ON AT LEAST TWO STONES ON TIER BELOW, FORMING AN INTERLOCKING WALL.
 - STONES SHALL MEET THE REQUIREMENTS OF ALASKA DOT&PF CLASS II RIP-RAP. SIZES SHALL MEET THOSE SHOWN IN TABLE.
 - WALL SHALL BE FOUNDED ON FRESHLY EXPOSED, SOUND BEDROCK, OR CLEAN ROCK FILL OVER BEDROCK.
 - WALL LOCATION AND ALIGNMENT SHALL BE IN ACCORDANCE WITH PLANS SHOWN HEREIN.

	LEAST DIMENSION	MIN. WEIGHT
TOP 3 FEET OF ROCKERY	24" TO 36"	3,500 LBS.
3 TO 9 FEET FROM TOP OF ROCKERY	36" TO 48"	6,000 LBS.

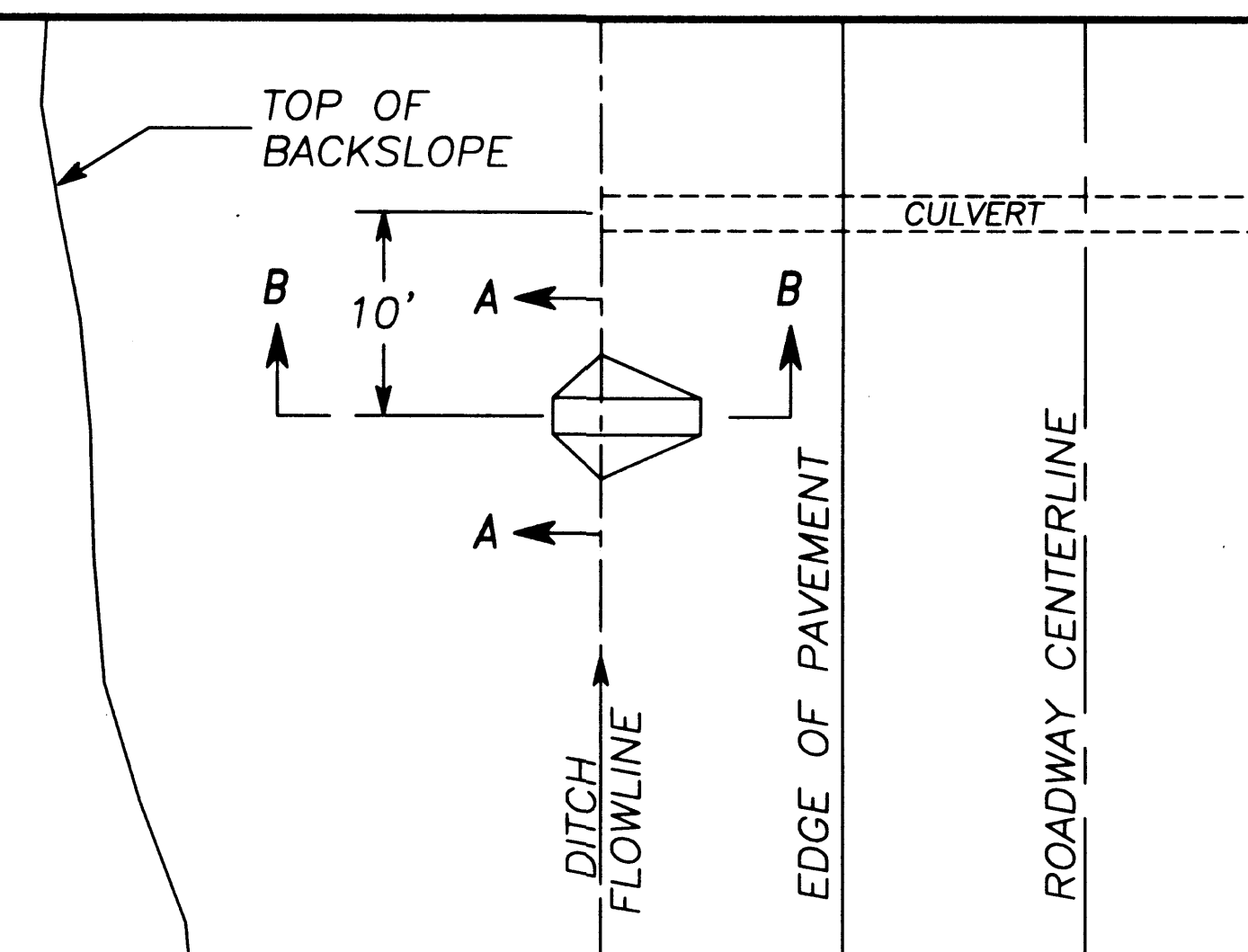
6 ROCKERY WALL DETAIL
NOT TO SCALE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Scot A. Menzies* Date 7/14/05

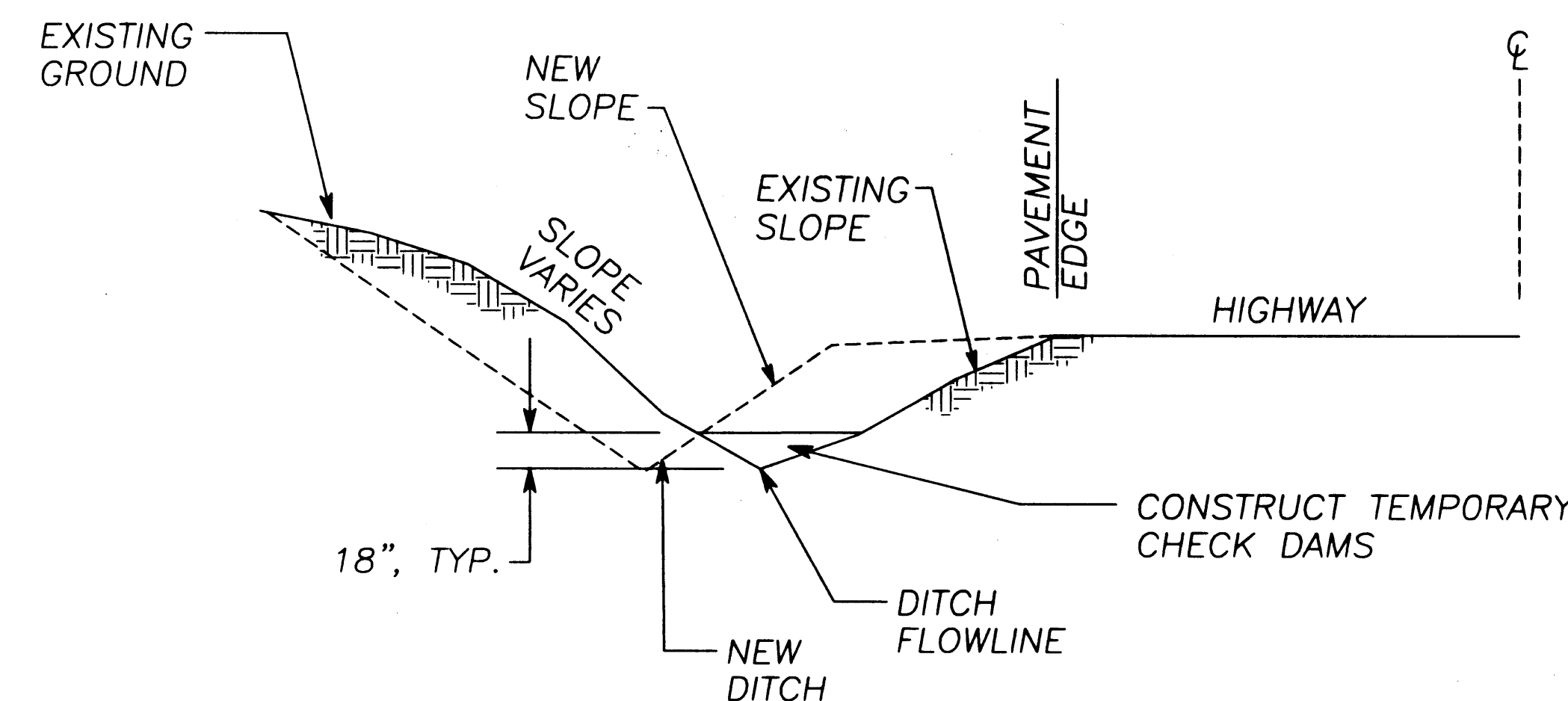
NO.	DATE	REVISION	BY	APPRVD
WRG-ROADS SURFACING & TRANSFER PROJECT NO. 67662/WGS-0003(60) PROJECT DETAILS				
CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929				
R&M ENGINEERING-KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901				
DATE:	11/28/00	DRAWN BY:	S.A.M.	PROJECT NO.: 992339.01
SCALE:	AS NOTED	APPRVD BY:	R.W.B.	SHEET 23 of 27



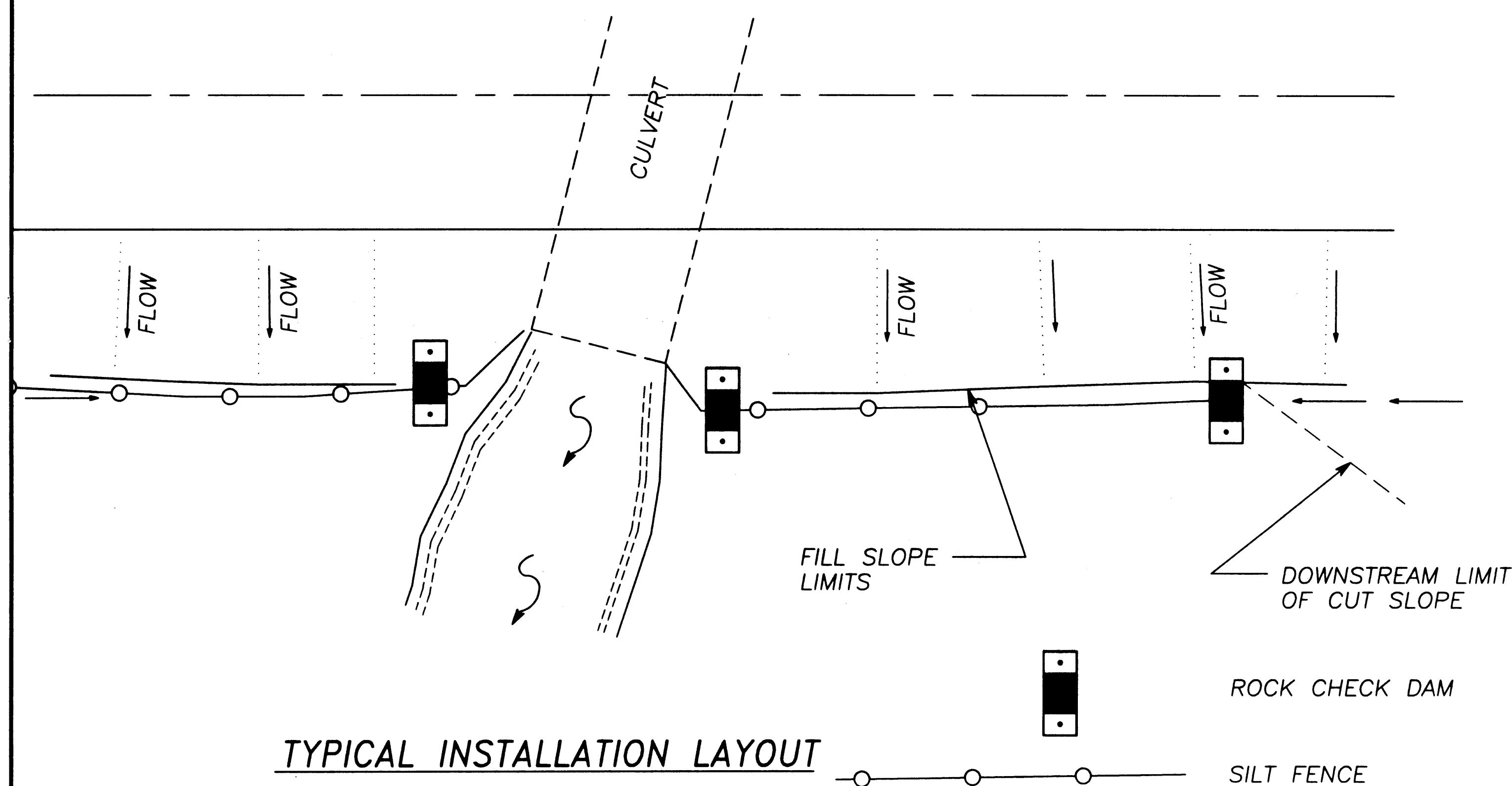
SILT FENCE DETAIL



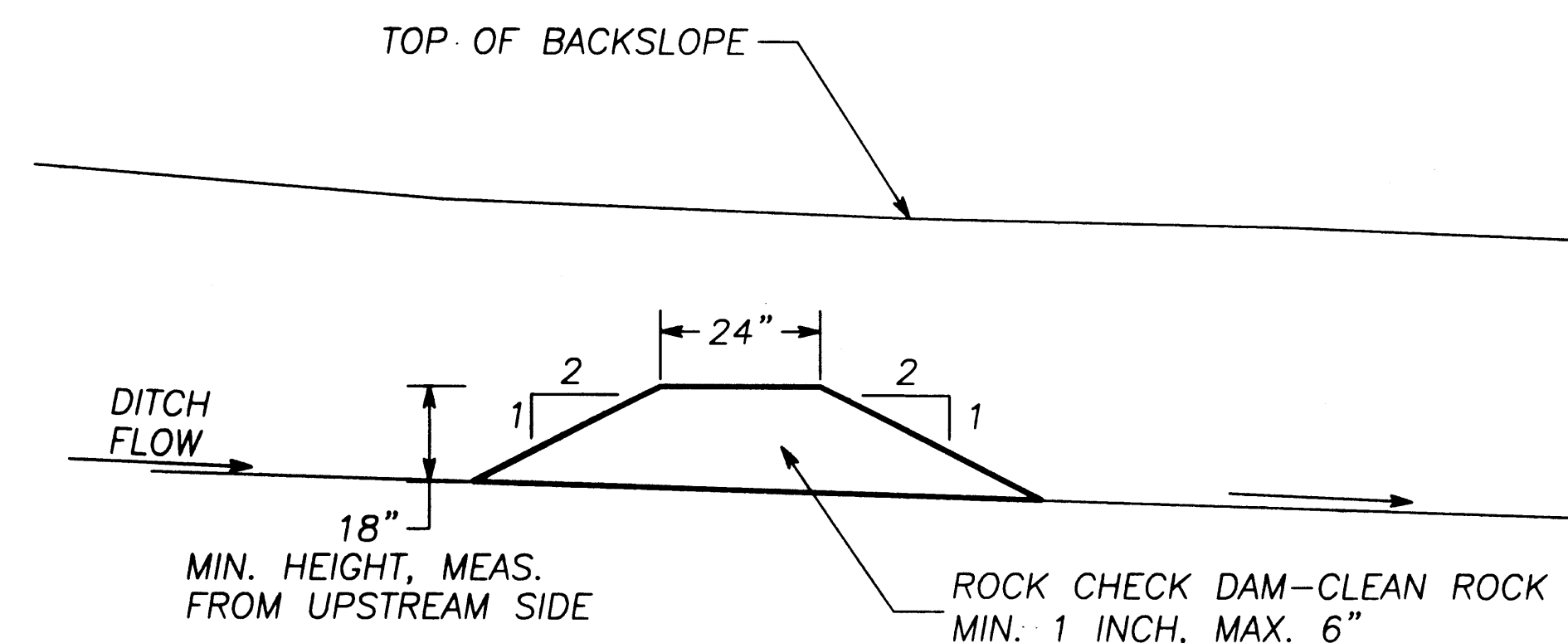
PLAN VIEW
ROCK CHECK DAM



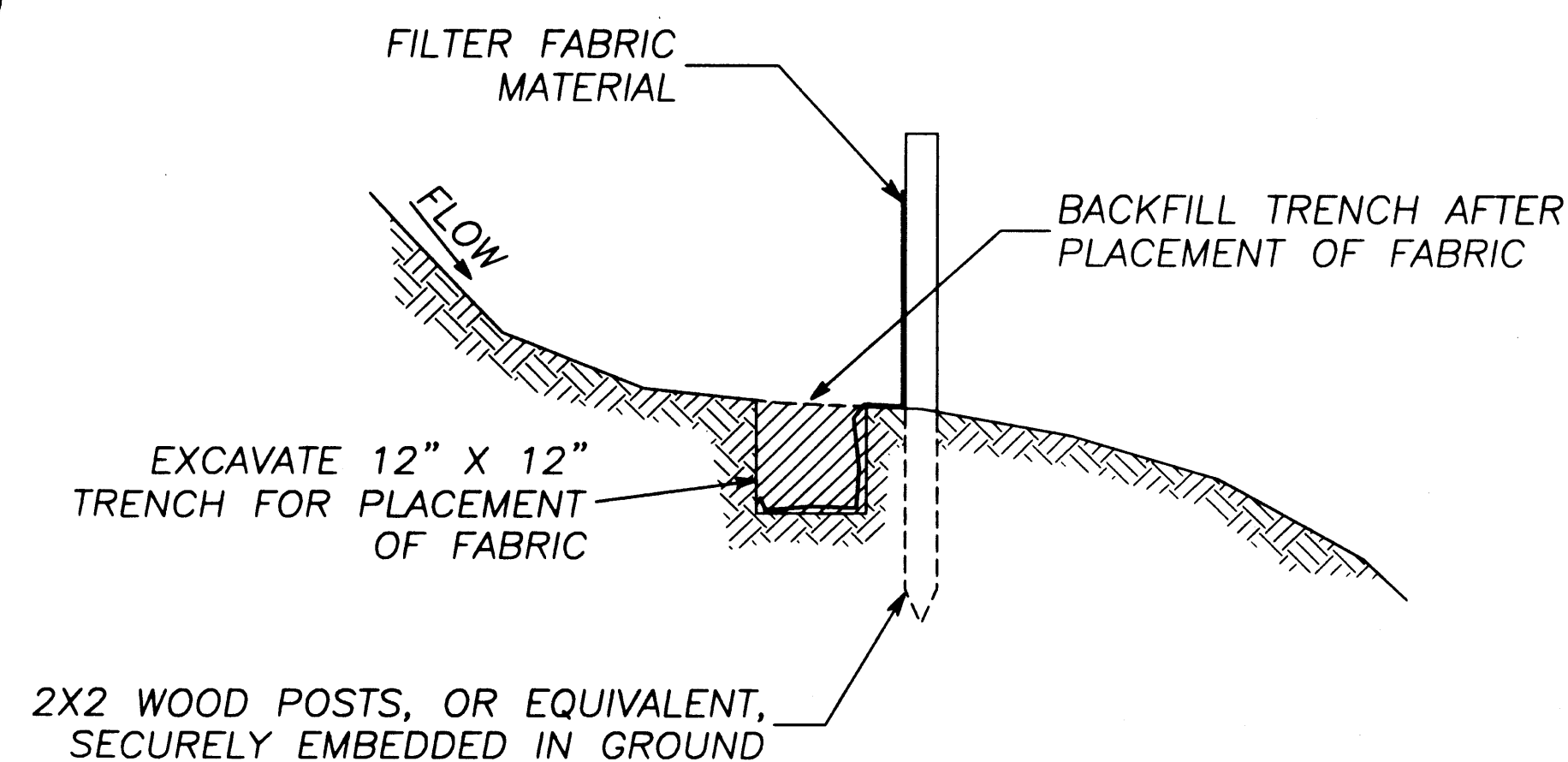
SECTION B-B
ROCK CHECK DAM



TYPICAL INSTALLATION LAYOUT



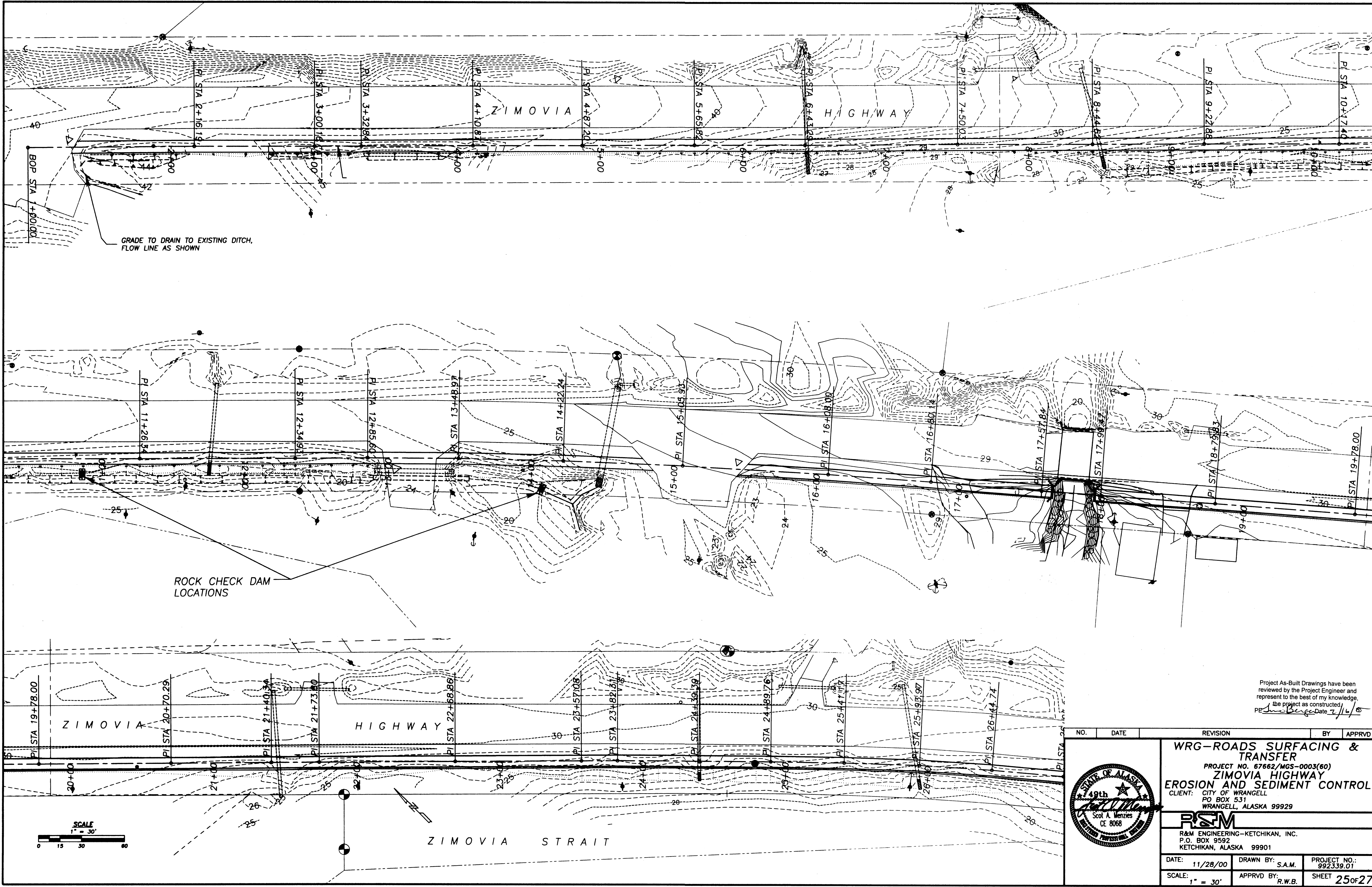
SECTION A-A
ROCK CHECK DAM



SECTION C-C
SILT FENCE

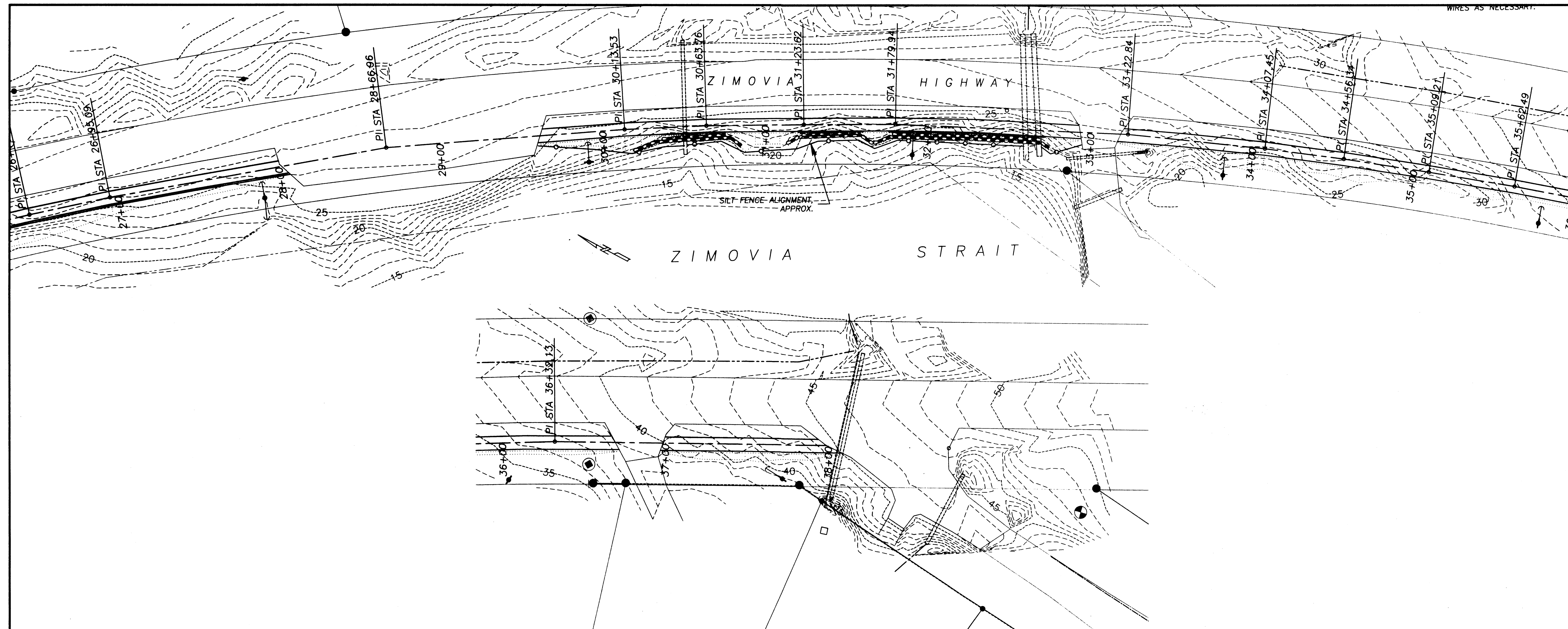
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *John Berg* Date *2/16/05*

NO.	DATE	REVISION	BY	APPRVD
WRG—ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) EROSION AND SEDIMENT CONTROL DETAILS CLIENT: CITY OF WRANGELL PO BOX 531 WRANGELL, ALASKA 99929 R&M ENGINEERING—KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901 DATE: 11/28/00 DRAWN BY: S.A.M. PROJECT NO.: 992339.01 SCALE: NOT TO SCALE APPRVD BY: R.W.B. SHEET 24 of 27				



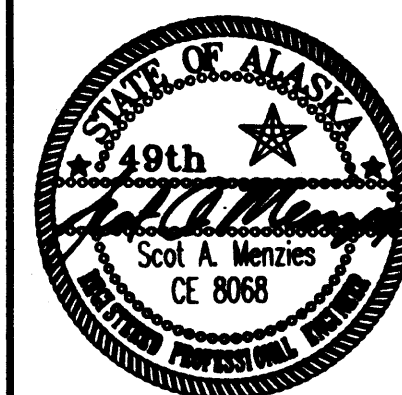
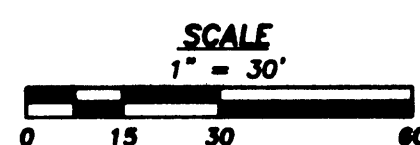
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Scot A. Menzies* Date 7/16/00

NO.		DATE		REVISION		BY		APPRVD	
WRG-ROADS SURFACING & TRANSFER									
PROJECT NO. 67662/WGS-0003(60)									
ZIMOVIA HIGHWAY									
EROSION AND SEDIMENT CONTROL									
CLIENT: CITY OF WRANGELL									
PO BOX 531									
WRANGELL, ALASKA 99929									
									
R&M									
R&M ENGINEERING-KETCHIKAN, INC.									
P.O. BOX 9592									
KETCHIKAN, ALASKA 99901									
DATE: 11/28/00		DRAWN BY: S.A.M.		PROJECT NO.: 992339.01					
SCALE: 1" = 30'		APPRVD BY: R.W.B.		SHEET 25 of 27					



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

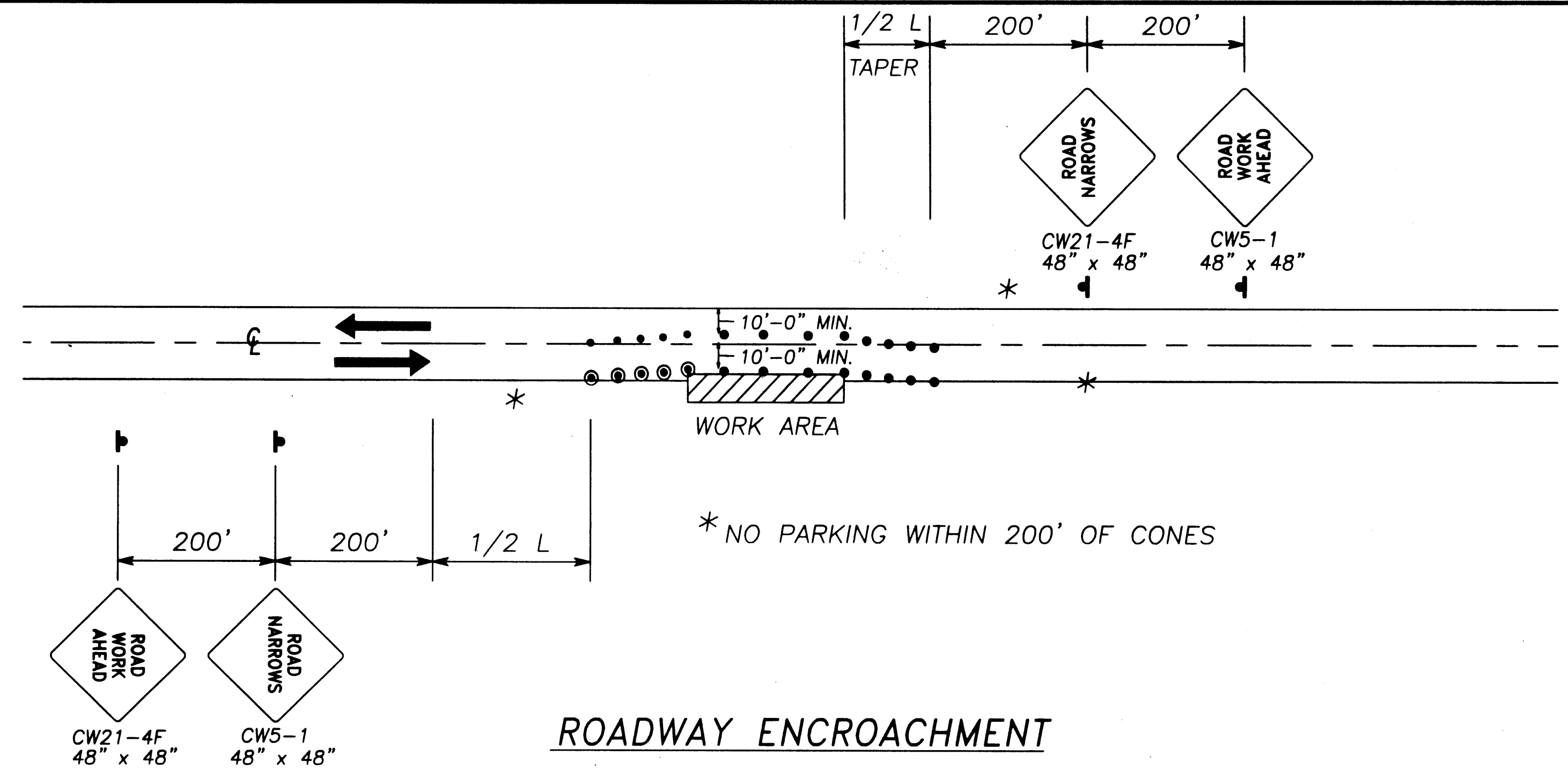
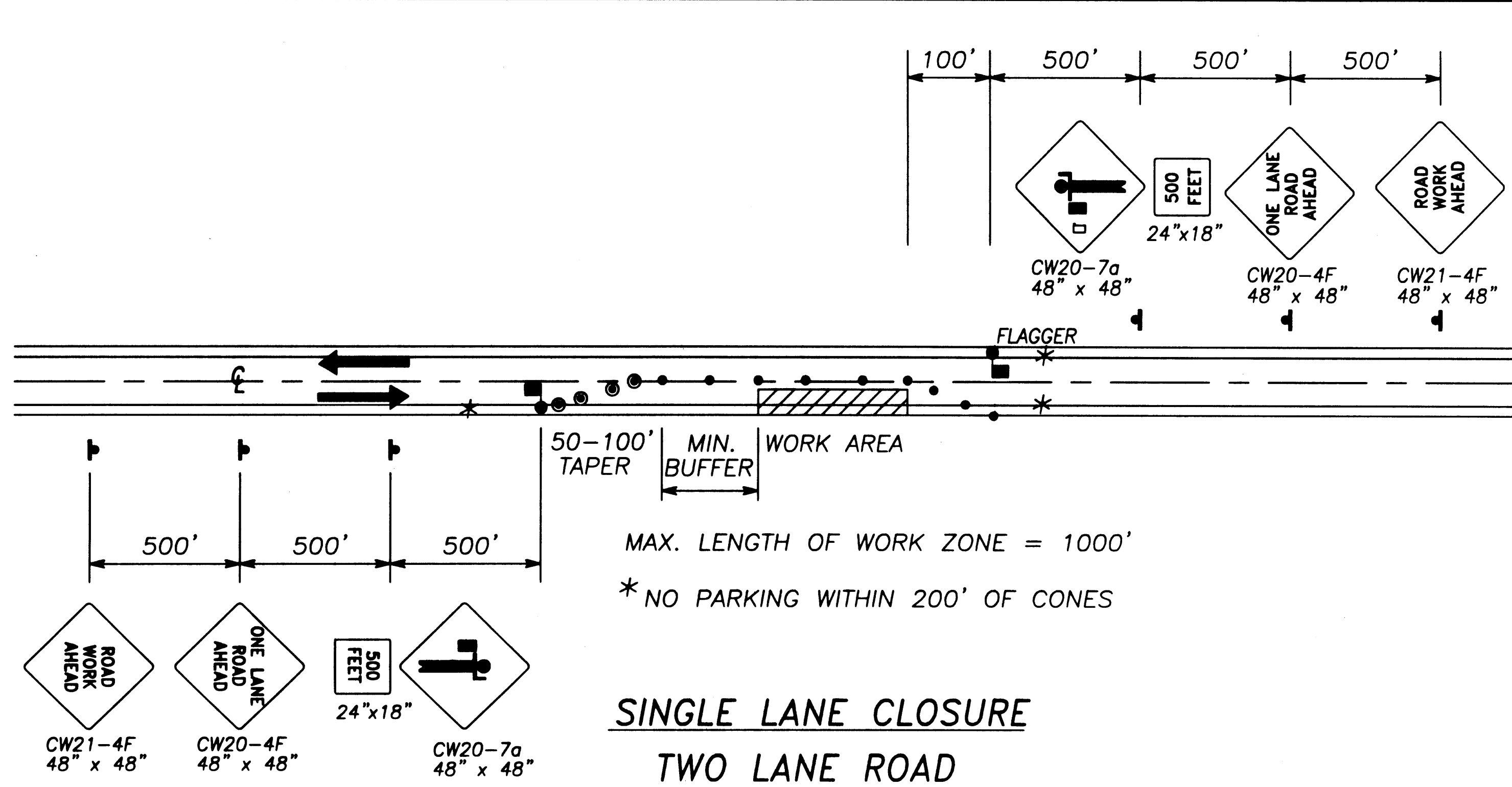
PE Jim Bega Date 2/16/05



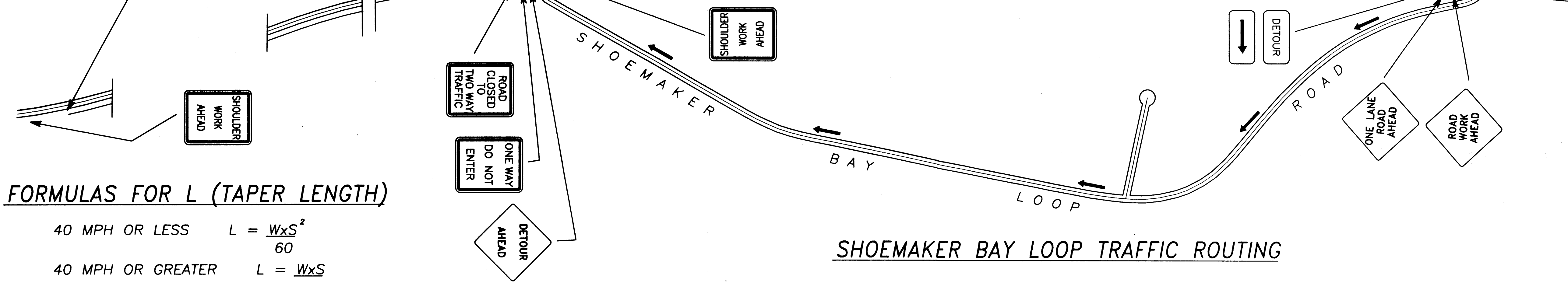
**WRG-ROADS SURFACING &
TRANSFER**
PROJECT NO. 67662/MGS-0003(60)
ZIMOVIA HIGHWAY
EROSION AND SEDIMENT CONTROL
CLIENT: CITY OF WRANGELL
PO BOX 531
WRANGELL, ALASKA 99929

R&M
R&M ENGINEERING—KETCHIKAN, INC.
P.O. BOX 9592
KETCHIKAN, ALASKA 99901

DATE: 11/28/00	DRAWN BY: S.A.M.	PROJECT NO.: 992339.01
SCALE: 1" = 30'	APPRVD BY: R.W.B.	SHEET 26 OF 27



BEGIN EXISTING PATH
PAVING—STA 9+93
SEE SHEET 5



FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{W \times S^2}{60}$

40 MPH OR GREATER $L = W \times S$

WHERE W = WIDTH OF OFFSET
S = POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

DRUM OR CONE SPACING = S (IN FEET)

S	MIN. BUFFER LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

NOTES: MAINTAIN ONE-WAY TRAFFIC ON SHOEMAKER BAY LOOP ROAD AT ALL TIMES (CONTROL BY FLAGGER PER DETAILS). TRAFFIC ROUTING MAY BE IN OPPOSITE DIRECTION THAN THAT SHOWN AT DISCRETION OF CONTRACTOR AND OWNER.

TRAFFIC CONTROL NOTES

1. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES THROUGH ALL WORK AREAS THAT ARE OPEN TO THE PUBLIC.
2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
3. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
4. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED.
5. NO LANE CLOSING BETWEEN THE HOURS OF 7 AM TO 9 AM AND 4 PM TO 6 PM.
6. CHANNELIZATION DEVICES, IF USED AT NIGHT, SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
7. DRIVEWAYS MAY BE CLOSED DURING ACTUAL WORK ON A GIVEN DRIVEWAY, PROVIDED THAT THE CLOSURE DOES NOT EXCEED 8 HOURS AND THE AFFECTED RESIDENTS HAVE BEEN GIVEN 24 HOURS NOTICE OF THE CLOSURE.
8. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THE TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE PORTIONS OF DETAILS ON THESE SHEETS.
9. A PERMANENT "ROAD WORK AHEAD" SIGN SHALL BE INSTALLED AT THE ENTRANCE TO THE RELIANCE DOCK FILL AREA PRIOR TO COMMENCEMENT OF WORK SHOWN ON SHEET 4.

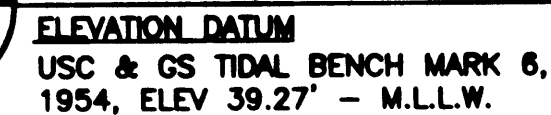
- LEGEND**
- SIGN
 - CONE
 - DRUM
 - TYPE III BARRICADE
 - FLAGGING STATION

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *John Berger* Date: *2/11/05*

NO.	DATE	REVISION	BY	APPRVD
WRG—ROADS SURFACING & TRANSFER PROJECT NO. 67662/MGS-0003(60) TRAFFIC CONTROL PLAN CLIENT: CITY OF WRANGELL P.O. BOX 531 WRANGELL, ALASKA 99929 RSM R&M ENGINEERING—KETCHIKAN, INC. P.O. BOX 9592 KETCHIKAN, ALASKA 99901 DATE: 11/28/00 DRAWN BY: S.A.M. PROJECT NO.: 992339.01 SCALE: AS NOTED APPRVD BY: R.W.B. SHEET 27 OF 27				



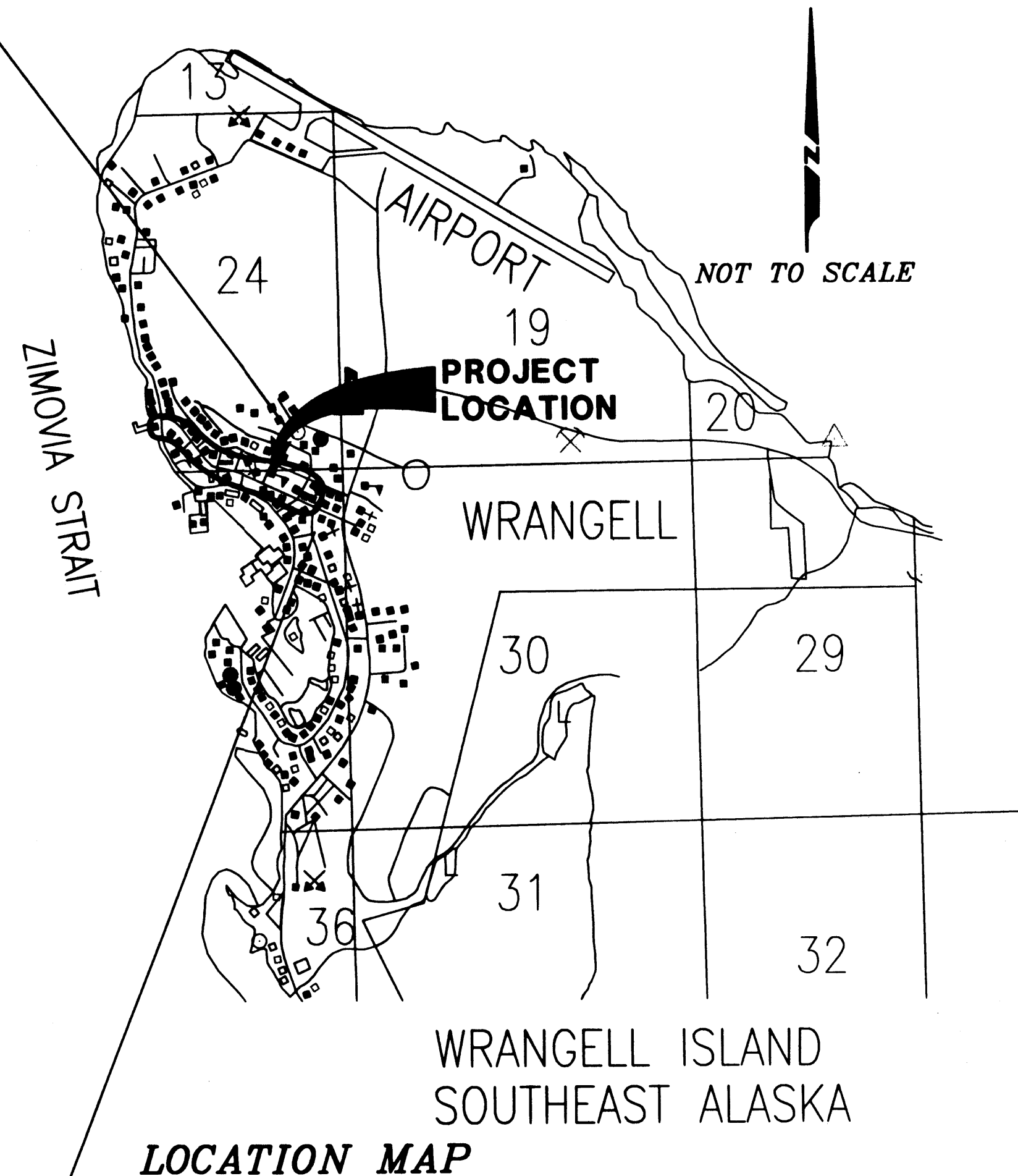
WRANGELL - CHURCH STREET RECONSTRUCTIONS
STATE PROJECT NO. 68086, FEDERAL PROJECT NO. STP-0943(23)



BASIS OF BEARING—BENNET STREET
N 23°18'00" E 379.98 MEASURED DATA
N 23°18'00" E 380.00 RECORD DATA

COORDINATES
NORTHING = 9651.00
EASTING = 9849.68

COORDINATES
NORTHING = 10000.00
EASTING = 10000.00



C01	INDEX TO DRAWING, VICINITY MAP
C02	ESTIMATE OF QUANTITIES
C03	SUMMARY OF QUANTITIES
C04	TYPICAL SECTIONS AND DETAILS
R01	ROAD RECONSTRUCTION STA. 2+58.55 to 8+50
R02	ROAD RECONSTRUCTION STA. 8+50 to 14+50
R03	ROAD RECONSTRUCTION STA. 14+50 to 20+50
R04	ROAD RECONSTRUCTION STA. 20+50 to 26+50
R05	ROAD RECONSTRUCTION STA. 26+50 to 31+43
R06	LIBRARY PARKING LOT SITE PLAN
R07	SIGNING AND STRIPING PLAN
R08	TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN
R09	TRAFFIC CONTROL PLAN
R10	TRAFFIC CONTROL PLAN
R11	CROSS SECTIONS STA. 3+25.66 to 9+52.45
R12	CROSS SECTIONS STA. 9+91.41 to 16+42.31
R13	CROSS SECTIONS STA. 16+82.51 to 21+00
R14	CROSS SECTIONS STA. 21+50 to 27+50.71
R15	CROSS SECTIONS STA. 28+00 to 31+00
W01	WATER & SEWER PLAN & PROFILE
W02	WATER & SEWER PLAN & PROFILE
W03	WATER & SEWER PLAN & PROFILE
W04	WATER & SEWER PLAN & PROFILE
W05	WATER & SEWER PLAN & PROFILE
W06	WATER & SEWER PLAN & PROFILE
W07	WATER & SEWER PLAN & PROFILE
W08	WATER & SEWER DETAILS

Alaska Department of Transportation and Public Facilities Standard Drawings

- C-01.03 Construction Zone Channelization Devices
- C-02.11 Construction Flagging and Sign Mounting
- C-04.11 Location of Double Traffic Fine Signs
- D-01.02 Culvert Pipe & Arch Installation Details
- D-22.00 Storm Drain Frame and Grate Details
- D-23.00 Curb Inlet Box Frame and Grate
- D-26.02 Type "A" Inlet Boxes
- I-20.13 Curb Cut, Curb & Gutter and Curb Ramp Details
- I-21.00 Parallel Curb Ramp
- I-22.00 Perpendicular Curb Ramp
- I-30.01 Accessible Parking
- M-13.01 Survey Monument
- M-16.01 Brass Cap Monuments and Monument Case
- S-00.00 Sheet Aluminum Sign and Framing
- S-05.00 Sign Location Post Mounted
- S-20.00 Sign Mounting Post Type
- S-30.01 Light Sign Structure Post Embedment
- T-20.01 Pavement Marking Applications
- T-21.02 Pavement Marking Applications
- T-23.00 Crosswalk Location at Intersections
- U-03.00 Thrust Blocks for Water Main & Hydrant

City and Borough of Juneau Standard Details

- | | | |
|---------------|--|---|
| Standard 126 | Concrete Collar | |
| Standard 203 | Sanitary Sewer Manhole Types I & II | |
| Standard 205 | Manhole Heights | |
| Standard 206B | Sanitary Sewer Locking Manhole Cover and Frame | |
| Standard 209 | Manhole Connection Details | |
| Standard 215 | Sanitary Sewer Encasement | |
| Standard 403 | Fire Hydrant | |
| Standard 407 | Mainline Valve | Project As-Built |
| Standard 409 | Air Release Valve | reviewed by the Engineer |
| Standard 410 | Air Release Valve Offset Location | represent to the best of the Engineer's knowledge |

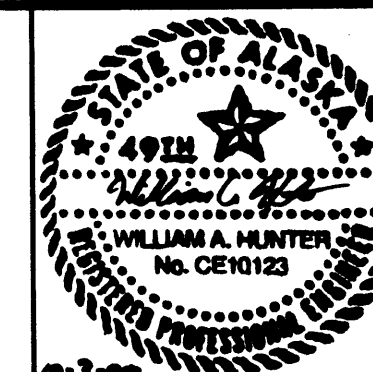
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Jim Burger Date 2/16/05

[illegible]

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX: (360) 647-9061



	DESIGNED BY:
	WAH
	DRAWN BY:
	WAH
	CHECKED BY:

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION

INDEX TO DRAWINGS, VICINITY MAP

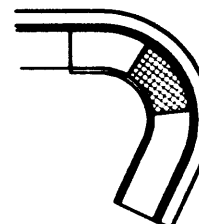
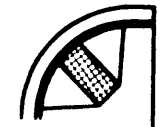
DATE SEPT 2000	SHEET
SCALE AS SHOWN	C01
JOB NUMBER 99096	OF 27

ESTIMATE OF QUANTITIES

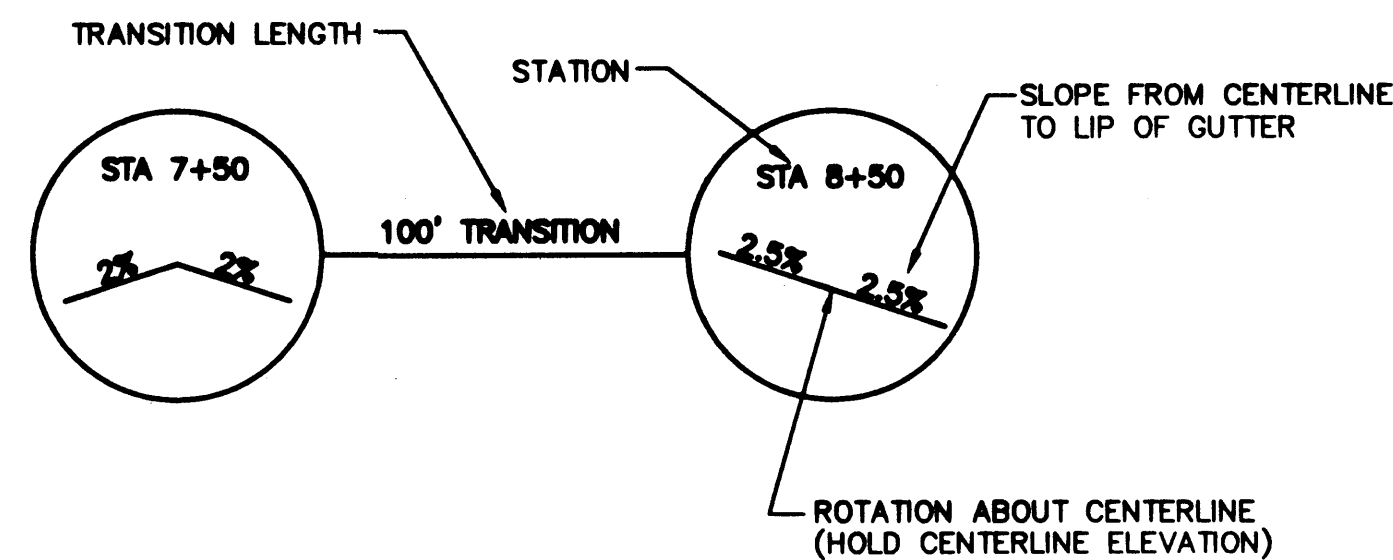
Item No	Pay Item	Pay Unit	Quantity
202 (2)	Removal of Pavement	Square Yard	~~13195~~ 13,927
202 (3)	Removal of Sidewalk	Square Yard	~~3010~~ 2,650
202 (9)	Removal of Curb and Gutter	Linear Foot	~~5730~~ 5,230
203 (2)	Rock Excavation	Cubic Yard	~~500~~ 606.40
203 (3)	Unclassified Excavation	Cubic Yard	~~1000~~ 0
203 (5)	Borrow	Cubic Yard	~~2500~~ 4,730
301 (1)	Crushed Aggregate Base Course	Ton	~~1000~~ 1,288.65
302 (3)	Processing For Subgrade Modification	Station	~~30~~ 32
306 (1)	Asphalt Treated Base Course	Ton	~~1500~~ 1,717
401 (1)	Asphalt Concrete Pavement, Type II, Class B	Ton	~~1540~~ 1,945
603 (17-12)	12 Inch Pipe	Linear Foot	~~133~~ 131
604 (2)	Sanitary Sewer Manhole	Each	~~13~~ 12
604 (4)	Adjust Existing Manhole	Each	~~24~~ 17
604 (5)	Inlet, Type A	Each	~~3~~ 4
604 (8)	Replace Inlet Frame and Grate	Each	2
608 (1)	Concrete Sidewalk	Square Yard	~~3145~~ 3,139.60
608 (6)	Curb Ramp	Each	~~33~~ 35
609 (2)	Curb and Guter, Type 1	~~Linear~~ Linear Foot	~~5940~~ 5,830
614 (3)	Adjust Existing Monuments and Cases	Each	20
615 (1)	Standard Signs	Square Foot	9
615 (2)	Remove and Relocate Existing Signs	Lump Sum	All Required
626 (1-08)	8 Inch Sanitary Sewer Conduit	Linear Foot	~~2987~~ 2,704
626 (2)	Sanitary Sewer Service Connection	Each	~~39~~ 44
627 (1-04)	4 Inch Ductile Iron Water Conduit, Class 52	Linear Foot	~~40~~ 24
627 (1-06)	6 Inch Ductile Iron Water Conduit, Class 52	Linear Foot	~~439~~ 403
627 (1-08)	8 Inch Ductile Iron Water Conduit, Class 52	Linear Foot	~~702~~ 822
627 (1-10)	10 Inch Ductile Iron Water Conduit, Class 52	Linear Foot	~~87~~ 66
627 (1-12)	12 Inch Ductile Iron Water Conduit, Class 52	Linear Foot	~~2755~~ 2,122
627 (3)	Install Valve Box	Each	35
627 (5)	Fire Hydrant Installation	Each	7
627 (8)	Water Service Connection	Each	~~63~~ 69
627 (9-04)	Install 4 Inch Gate Valve	Each	1
627 (9-06)	Install 6 Inch Gate Valve	Each	4
627 (9-08)	Install 8 Inch Gate Valve	Each	~~14~~ 12
627 (9-10)	Install 10 Inch Gate Valve	Each	2
627 (9-12)	Install 12 Inch Gate Valve	Each	17
627 (11)	Air Release Valve Assembly	Each	2
628 (1)	City of Wrangell Public Parking Lot Expansion	Lump Sum	All Required
~~628 (2)~~ 627(1)	Rock Retaining Wall	Square Yard	60
~~628 (3)~~ 625(1)	Galvanized Steel Pedestrian Handrail	Linear Foot	90
640 (1)	Mobilization and Demobilization	Lump Sum	All Required
641 (2)	Erosion and Pollution Control	Lump Sum	All Required
642 (1)	Construction Surveying	Lump Sum	All Required
643 (2)	Traffic Maintenance	Lump Sum	All Required
643 (3)	Permanent Construction Signing	Lump Sum	All Required
643 (15)	Flagging	Contingent Sum	All Required
643 (25)	Traffic Control	Contingent Sum	All Required
670 (1)	Painted Traffic Markings	Lump Sum	All Required

(For removal of unsuitable subgrade)

LEGEND

EXISTING FEATURES	PROPOSED FEATURES
	 NEW STORM DRAIN
	 NEW WATER MAIN
	 NEW GATE VALVE
	 NEW WATER SERVICE
	 NEW AIR RELEASE VALVE
	 NEW SANITARY SEWER MAIN
	 NEW SANITARY SEWER MANHOLE
	 NEW SANITARY SEWER SERVICE
	 NEW CATCH BASIN
	 FINISH GRADE AT GUTTER FLOWLINE
	 NEW CURB & GUTTER
	 NEW ASPHALT PAVEMENT
	 NEW CONCRETE PAVEMENT
	 NEW PARALLEL CURB RAMP PER STANDARD DWG I-21.00
	 NEW PERPENDICULAR CURB RAMP PER STANDARD DWG I-22.00
	 NEW IN-LINE CURB RAMP SEE DETAILS
	 NEW MID BLOCK CURB RAMP PER STANDARD DWG I-21.00
	 NEW DRIVEWAY CURB CUT PER STANDARD DWG I-20.13
	
	
	

SUPERELEVATION NOTATION SHOWN ON PROFILE



BASIS OF ESTIMATE

Item No	Pay Item	Estimating Factor
301(1)	Crushed Aggregate Base Course	1.95 TON/CY
306(1)	Asphalt Treated Base Course	2.05 TON/CY (incl. 4% Oil by Weight)
401(1)	Asphalt Concrete Pavement, Type II, Class B	2.05 TON/CY (incl. 6% Oil by Weight)

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE TEMPORARY WATER SERVICE TO BUILDINGS AFFECTED BY CONSTRUCTION THROUGHTOUT THE DURATION OF CONSTRUCTION. COORDINATE WITH THE PUBLIC WORKS DEPARTMENT.
2. CONTRACTOR SHALL PROVIDE TEMPORARY SEWER SERVICE TO BUILDINGS AFFECTED BY CONSTRUCTION THROUGHTOUT THE DURATION OF CONSTRUCTION. COORDINATE WITH THE PUBLIC WORKS DEPARTMENT.
3. EXISTING AC WATER MAINS SHALL BE CRUSHED AND ABANDONED IN PLACE. PLUG REMAINING OPEN ENDS WITH CONCRETE.
4. CONTRACTOR MAY USE RESTRAINED JOINTS AS APPROVED BY THE CITY AS AN ALTERNATE TO CONCRETE THRUST BLOCKING.
5. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL LANDSCAPING, FENCING, AND OTHER PRIVATE AND PUBLIC IMPROVEMENTS WHICH ARE AFFECTED BY CONSTRUCTION.
6. UTILITIES SHOWN ARE BASED ON BEST AVAILABLE INFORMATION AND ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THERE ARE UNDERGROUND ELECTRIC, TELEPHONE, AND CABLE TELEVISION LINES LOCATED IN THE PROJECT LIMITS. THESE LINES ARE TO REMAIN IN SERVICE. PRIOR TO EXCAVATION IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO CALL FOR A LOCATE SERVICE.

THEIR CONTACT NUMBERS ARE AS FOLLOWS:

CITY OF WRANGELL	907-874-3602
GTE, ALASKA INC.	907-874-3000
GCI CABLE INC.	907-874-2392

7. VERTICAL AND HORIZONTAL ALIGNMENT SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS. THE INTENT OF THE DESIGN IS TO MATCH EXISTING BACK OF WALK LOCATIONS AND ELEVATIONS.
8. EXISTING SEWER MAINS, SERVICES, AND MANHOLES TO BE REPLACED BY NEW SEWER MAINS, SERVICES, AND MANHOLES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THIS WORK SHALL BE INCIDENTAL TO THE INSTALLATION OF NEW SEWER MAINS, SERVICES, AND MANHOLES.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Ina Berger Date 2/16/05

CITY OF WRANGELL

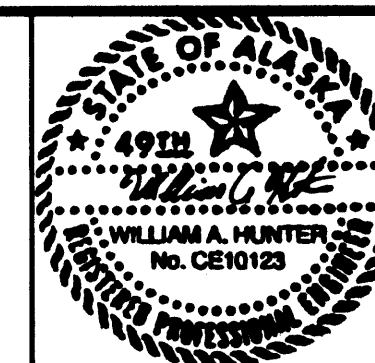
WRANGELL ISLAND **ALASKA**
WRG - CHURCH STREET RECONSTRUCTION

ESTIMATE OF QUANTITIES

DATE EPT 2000	SHEET C02
SCALE S SHOWN	OF
B NUMBER 99096	27



805 DUPONT STREET
BELLINGHAM, WA 98225
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FAX: (360) 647-9061



DESIGNED BY:	WAH
DRAWN BY:	WAH
CHECKED BY:	MP

[illegible]

SIGN SUMMARY

DRAIN STRUCTURE SUMMARY

NO	CL. STRUCTURE STATION	OFFSET	EX. RIM GRADE	NEW RIM GRADE	WORK ITEM
1.	3+13.88	20.29' LT.	30.61	30.25	ADJUST INLET FRAME AND GRATE TO GRATE
2.	3+32.48	20.50' LT.	31.45	31.13	ADJUST INLET FRAME AND GRATE TO GRATE
3.	3+22.11	20.50' RT.	30.64	30.63	ADJUST INLET FRAME AND GRATE TO GRATE
4.	4+58.03	20.50' LT.	36.82	36.68	ADJUST INLET FRAME AND GRATE TO GRATE
5.	4+58.52	20.50' RT.	36.80	36.68	ADJUST INLET FRAME AND GRATE TO GRATE
6.	8+82.74	1.61' RT.	51.43	51.11	ADJUST MANHOLE RIM TO GRATE
7.	10+98.41	21.03' RT.	48.39	48.15	ADJUST INLET FRAME AND GRATE TO GRATE
8.	10+95.57	20.50' LT.	48.59	48.23	REPLACE INLET FRAME & GRATE, ADJUST TO GRATE
9.	13+68.68	20.50' LT.	39.30	39.08	ADJUST INLET FRAME AND GRATE TO GRATE
10.	13+80.60	19.27' LT.	39.26	39.01	ADJUST MANHOLE RIM TO GRATE
11.	14+90.41	20.50' LT.	38.26	38.08	ADJUST INLET FRAME AND GRATE TO GRATE
12.	14+90.82	20.50' RT.	38.43	38.08	ADJUST INLET FRAME AND GRATE TO GRATE
13.	16+54.27	38.81' LT.	--	42.57	INSTALL NEW TYPE "A" INLET
14.	16+72.65	34.80' LT.	--	42.40	INSTALL NEW TYPE "A" INLET
15.	16+82.51	20.50' LT.	41.88	41.65	ADJUST INLET FRAME AND GRATE TO GRATE
16.	18+43.16	20.50' RT.	47.41	47.08	ADJUST INLET FRAME AND GRATE TO GRATE
17.	26+99.54	20.50' RT.	63.72	63.27	ADJUST INLET FRAME AND GRATE TO GRATE
18.	27+09.75	20.50' LT.	63.52	64.10	ADJUST INLET FRAME AND GRATE TO GRATE
19.	27+16.03	34.25' LT.	64.10	64.10	ADJUST MANHOLE RIM TO GRATE
20.	28+91.91	20.50' RT.	61.02	60.70	ADJUST INLET FRAME AND GRATE TO GRATE
21.	29+11.32	20.50' LT.	61.08	60.80	ADJUST INLET FRAME AND GRATE TO GRATE
22.	29+66.87	31.50' RT.	62.15	62.15	ADJUST MANHOLE RIM TO GRATE
23.	30+43.07	29.47' LT.	63.91	63.80	ADJUST INLET FRAME AND GRATE TO GRATE
24.	31+31.71	20.50' RT.	67.46	67.43	ADJUST INLET FRAME AND GRATE TO GRATE
25.	9+51.00	20.50' LT.	--	51.61	INSTALL NEW TYPE "A" INLET
26.	27+19.14	37.13' LT.	63.46	63.70	REPLACE INLET FRAME & GRATE, ADJUST TO GRATE
27.	16+31.93	24.86' LT.	40.91	40.36	ADJUST MANHOLE RIM TO GRATE

28. $27 + 00$

INSTALL NEW TYPE "A" INLET

	FINAL LOCATION		SIGN DESCRIPTION	COMMENTS
	STATION	OFFSET		
1.	2+86	35' RT.	INFORMATION SIGN	RELOCATE
2.	3+17	29' RT.	WRONG WAY	RELOCATE
3.	3+17	32' RT.	STOP / 24 HR PARKING	RELOCATE
4.	7+89	27' RT.	PED XING / 24 HR PARKING	NO CHANGE
5.	11+33	27' RT.	STOP / 24 HR PARKING	NO CHANGE
6.	14+59	39' RT.	NO PARKING / HANDICAP ONLY / RESTROOMS	NO CHANGE
7.	14+56	28' RT.	STOP / INFORMATION	NO CHANGE
8.	14+90	26' RT.	HANDICAP ONLY / 24 HR PARKING	NO CHANGE
9.	16+83	27' RT.	SCHOOL CROSSING / 24 HR PARKING	NO CHANGE
10.	18+39	28' RT.	STOP	RELOCATE
11.	18+62	27' RT.	SCHOOL - SPEED LIMIT 20 WHEN FLASHING	NO CHANGE (OVERHEAD ELECTRIC)
12.	20+96	26' RT	24 HR PARKING	NO CHANGE
13.	22+08	27' RT	SCHOOL CROSSING	NO CHANGE
14.	23+31	27' RT.	24 HR PARKING	NO CHANGE
15.	24+91	27' RT.	SCHOOL CROSSING / 24 HR PARKING	NO CHANGE
16.	26+78	26' RT.	SCHOOL CROSSING	NO CHANGE
17.	27+40	31' RT.	STREET SIGNS / STOP	NO CHANGE
18.	27+89	26' RT.	NO PARKING	NO CHANGE
19.	29+44	27' RT.	SCHOOL CROSSING / 24 HR PARKING	NO CHANGE
20.	30+03	34' RT.	STREET SIGNS / STOP	NO CHANGE
21.	30+39	30' RT.	SCHOOL CROSSING	REPLACE SIGN ONLY (POST, AND HARDWARE TO REMAIN), MUTCD SIGN S1-1, NO CHANGE IN LOCATION (36"x36")
22.	31+15	27' RT.	SPEED LIMIT 25	RELOCATE
23.	31+56	26' RT.	AIRPORT INFORMATION	NO CHANGE
24.	31+56	29' RT.	HOSPITAL INFORMATION	NO CHANGE
25.	30+50	28' LT.	NO PARKING	NO CHANGE
26.	30+24	32' LT.	STREET SIGNS / STOP	NO CHANGE
27.	30+09	31' LT.	SHCOOL CROSSING	NO CHANGE
28.	29+53	29' LT.	SCHOOL - SPEED LIMIT 20 WHEN FLASHING	NO CHANGE (UNDERGROUND ELECTRIC)
29.	28+55	22.5' LT	24 HR MAX PARKING	NO CHANGE
30.	27+88	22.5' LT.	NO PARKING	NO CHANGE
31.	26+62	23' LT.	SCHOOL CROSSING	NO CHANGE
32.	23+30	22' LT	NO PARKING	NO CHANGE
33.	22+73	30' LT.	SCHOOL CROSSING / 24 HR PARKING	NO CHANGE
34.	19+79	22' LT.	24 HR PARKING	NO CHANGE
35.	19+05	29' LT.	SPEED LIMIT 25	NO CHANGE
36.	18+27	23' LT.	24 HR PARKING	NO CHANGE (OVERHEAD ELECTRIC)
37.	16+50	36' LT.	STREET SIGNS / STOP	NO CHANGE
38.	15+20	23' LT.	24 HR PARKING	NO CHANGE
39.	13+84	27' LT.	STREET SIGNS / STOP	NO CHANGE
40.	12+94	22.5' LT.	24 HR PARKING	NO CHANGE
41.	11+78	29' LT.	PED XING	NO CHANGE
42.	9+98	22.5' LT.	24 HR PARKING	NO CHANGE
43.	9+54	31' LT.	STREET SIGNS / STOP	NO CHANGE
44.	8+66	22.5' LT	24 HR PARKING	NO CHANGE
45.	6+99	23' LT	CURVE AHEAD ARROW / 15 MPH	NO CHANGE
46.	4+62	22.5' LT	24 HR PARKING	NO CHANGE
47.	3+23	29' LT.	24 HR PARKING	RELOCATE
48.	27+88	23' LT.	NO SIGN, SIGN POST ONLY	REMOVE SIGN POST

SIGNING NOTES:

1. THE SIGN TABLE INDICATES THE FINAL SIGN LOCATIONS.
2. SIGNS NOTED FOR RELOCATION SHALL BE REMOVED FROM THEIR EXISTING LOCATION (USUALLY ONLY A FEW FEET FROM THEIR FINAL LOCATION) TO THE STATION AND OFFSET AS SHOWN ON THIS TABLE.
3. SIGNS NOTED FOR NO CHANGE HAVE EXISTING STATION AND OFFSET LOCATIONS SHOWN. THIS WILL AID THE CONTRACTOR TO PROPERLY REPLACE SIGNS THAT MAY NEED TO BE TEMPORARILY REMOVED FOR CONSTRUCTION OF THE IMPROVEMENTS. REMOVAL AND REPLACEMENT OF SIGNS MARKED FOR "NO CHANGE" SHALL BE INCIDENTAL TO THE CONTRACT.

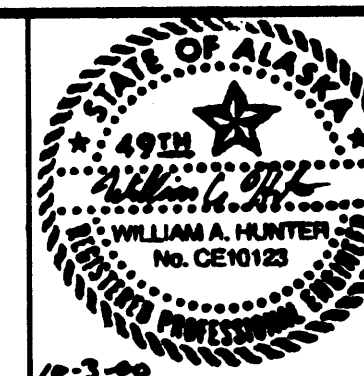
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE Jim Bencur Date 7/16/05

[illegible]

Wilson Engineering
CONSULTING ENGINEERS & SURVEYORS

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FAX: (360) 647-9061



	DESIGNED BY:
	WAH
	DRAWN BY:
	WAH
	CHECKED BY:
	<i>WAH</i>

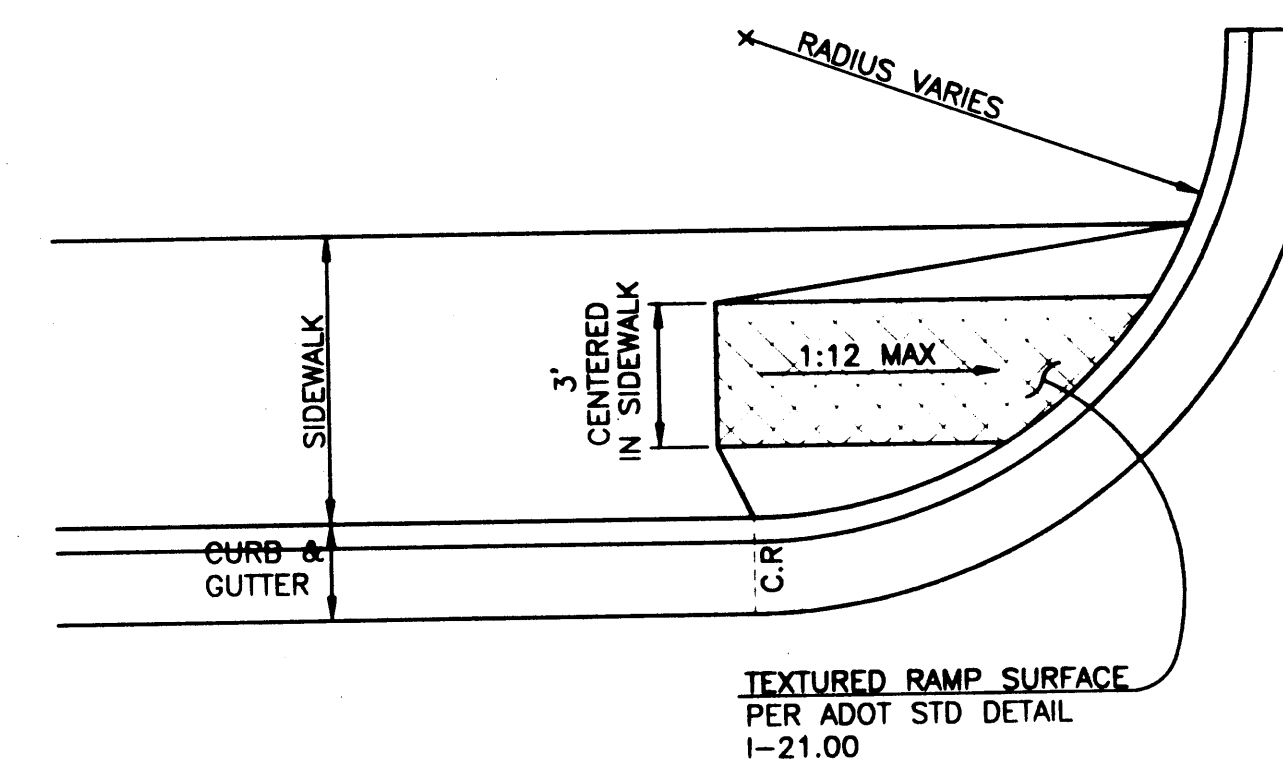
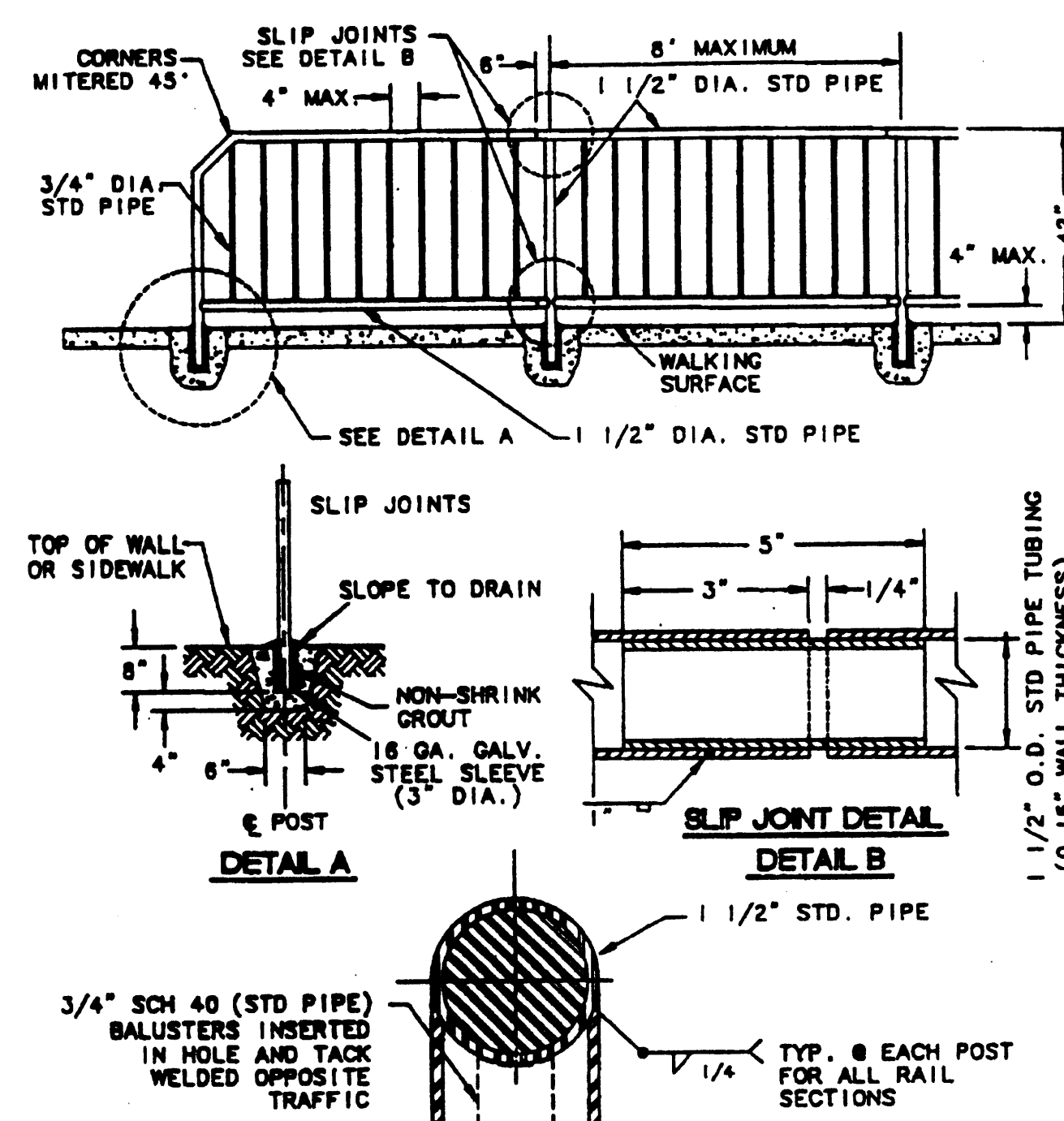
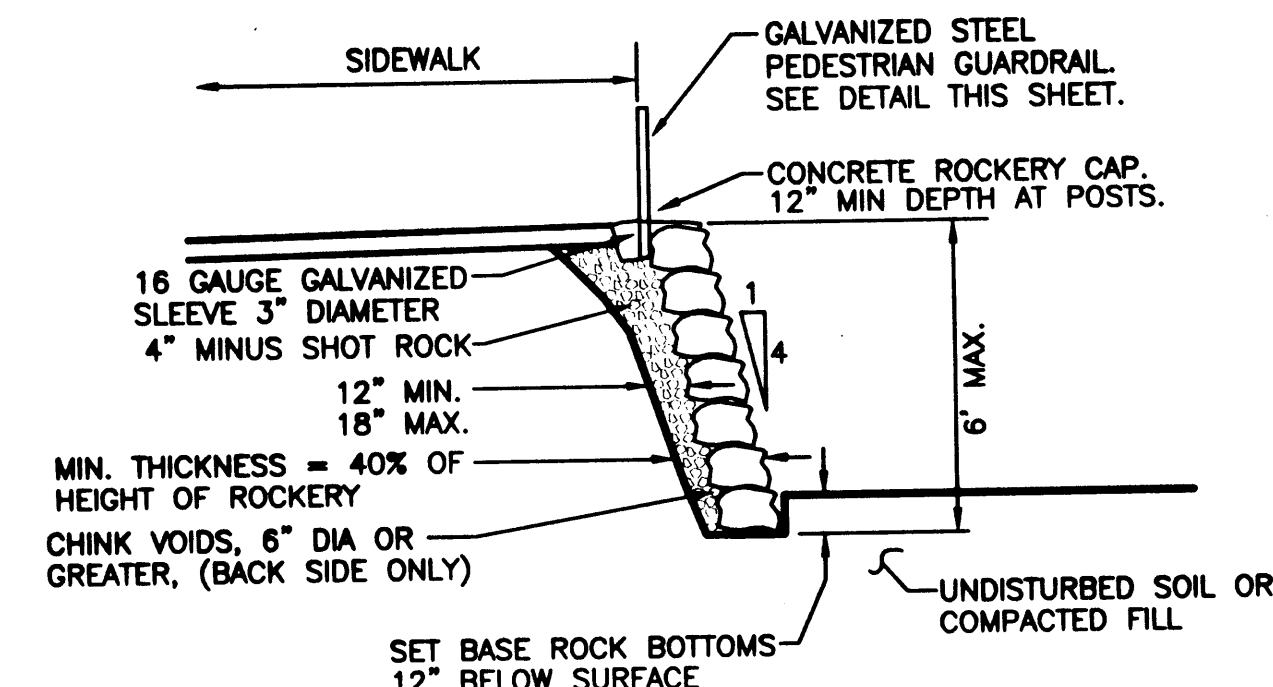
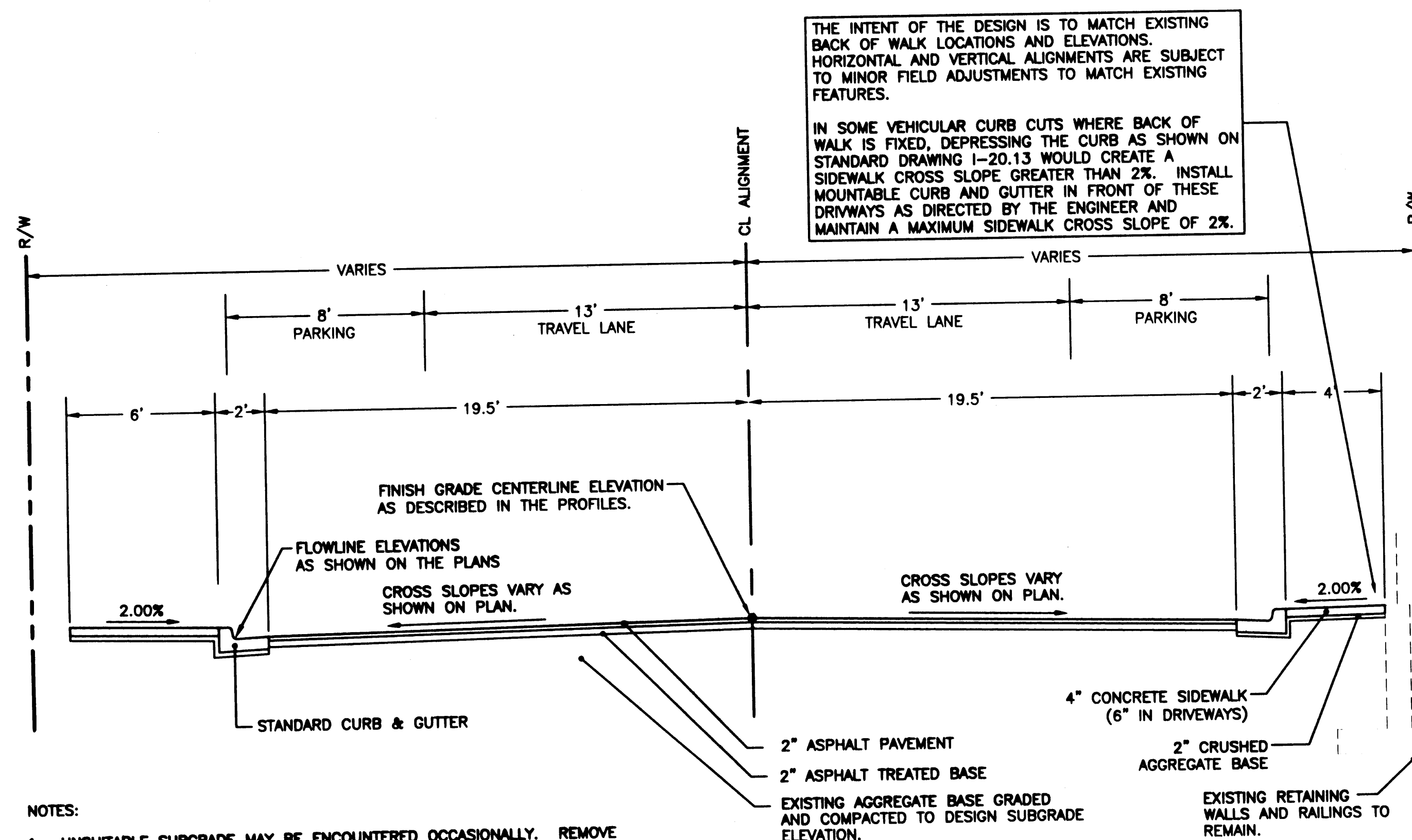
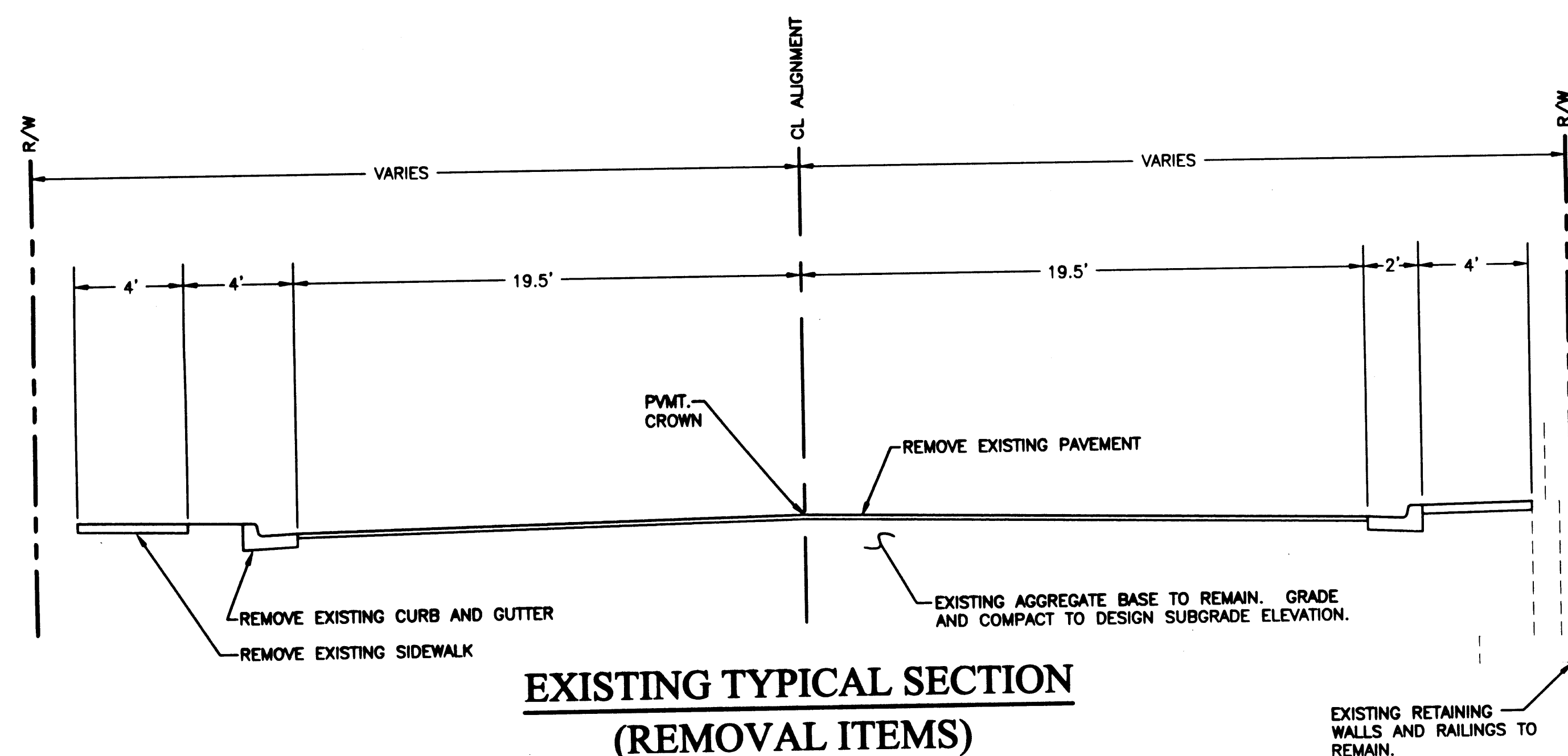
CITY OF WRANGELL

WRANGELL ISLAND ALASKA

WRG - CHURCH STREET RECONSTRUCTION

SUMMARY OF QUANTITIES

DATE EPT 2000	SHEET
SCALE S SHOWN	C03
B NUMBER 99096	OF 27



NOTES:

1. ROCK FACINGS SHALL BE CONSTRUCTED BY INTERLOCKING THE ROCKS SO THAT EACH ROCK IS IN CONTACT WITH AT LEAST TWO OTHER ROCKS WITH EACH ROCK HAVING A MINIMUM OF THREE BEARING SURFACES PER ROCK.
2. EACH ROCK SHALL BE LAID WITH A FLAT SURFACE ON THE FACE OF THE ROCK FACING AND WITH THE LONG DIMENSIONS HORIZONTAL.
3. THE DENSITY OF ROCK MATERIAL SHALL BE A MINIMUM OF 160 POUNDS PER CUBIC FOOT. THE SIZE CATEGORIES FOR ROCK SHALL BE AS FOLLOWS:

SIZE	APPROXIMATE WEIGHT	MINIMUM DIMENSIONS	APPROXIMATE VOLUME
ONE-MAN ROCK	160 TO 400 LB	12 INCHES	1.75 CF
TWO-MAN ROCK	500 TO 800 LB	13 INCHES	4 CF
THREE MAN ROCK	900 TO 1200 LB	16 INCHES	6.6 CF
FOUR-MAN ROCK	1300 TO 1800 LB	18 INCHES	9 CF

ROCKS LESS THAN 1 CUBIC FOOT IN VOLUME OR WEIGHING LESS THAN 160 POUNDS SHALL NOT BE USED.
4. THE CONTRACTOR SHALL USE THE ROCK SIZES AS SET FORTH IN THE ABOVE TABLE AND SHALL INSURE A DISTRIBUTION OF ROCK SIZES WITH THE LARGEST ROCKS ON THE BOTTOM AND PROGRESSIVELY SMALLER ROCKS ON TOP.
5. VOIDS IN THE ROCKERY FACE SHALL NOT BE GREATER THAN 50 SQUARE INCHES FOR ROCKS OVER 3 FEET HIGH AND 36 SQUARE INCHES FOR ROCKS UNDER 3 FEET HIGH.

PEDESTRIAN RAIL (GALVANIZED STEEL)

STEEL RAILINGS MATERIALS SHALL BE WELDED OR SEAMLESS STEEL PIPE CONFORMING TO THE REQUIREMENTS OF ASTM A 120, STRUCTURAL STEEL CONFORMING TO ASTM A 36, OR TUBULAR SECTIONS OF STRUCTURAL MILD STEEL CONFORMING TO ASTM A 501. ALL WELDING SHALL CONFORM TO STEEL CONFORMING TO ASTM A 501. ALL WELDING SHALL CONFORM TO AMERICAN WELDED INSTITUTE (AWI) STRUCTURAL WELDING CODE AWS D1.1. AFTER FABRICATION EACH SECTION OF RAILING SHALL BE HOT-DIPPED GALVANIZED WITH A MINIMUM ZINC COATING OF 2 OUNCES PER SQUARE FOOT. ALL BURRS AND SHARP EDGES SHALL BE REMOVED PRIOR TO GALVANIZING.

FIELD WELDS SHALL BE GALVANIZED WITH SUCH MATERIALS AS "GALVALLOY" OR GALVICON. PAINTING OF WELDS WILL NOT BE PERMITTED.

HORIZONTAL RAILS AND VERTICAL SUPPORT POSTS SHALL BE 1 1/2 INCH DIAMETER AND BALUSTERS SHALL BE 3/4 INCH DIAMETER STANDARD WEIGHT GALVANIZED STEEL PIPE. RAILS, POSTS AND BALUSTERS SHALL BE MACHINE CUT TO PROVIDE A UNIFORM LENGTH PRIOR TO ASSEMBLY.

RAILING SHALL BE ERECTED AND ADJUSTED, IF NECESSARY, TO ASSURE A CONTINUOUS LINE AND GRADE.

GALVANIZED STEEL PEDESTRIAN HANDRAIL

NOT TO SCALE

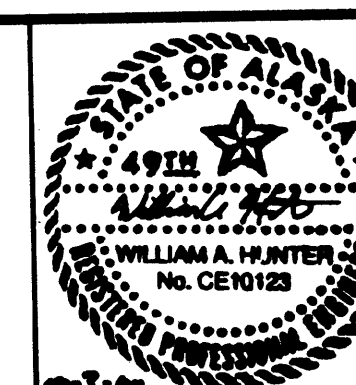
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE *Jim Bertram* Date *2/11/08*

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CONSULTING ENGINEERS & SURVEYORS

805 DUPONT STREET
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(360) 733-6100
FAX: (360) 647-9061



DESIGNED BY:
RSH

DRAWN BY:
RSH/WAH

CHECKED BY:
[Signature]

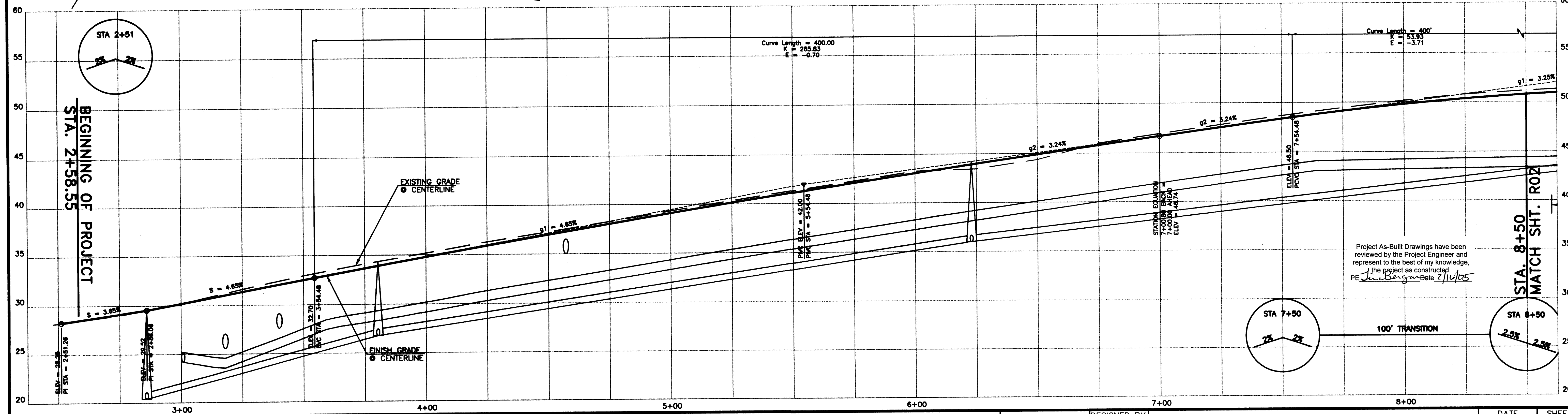
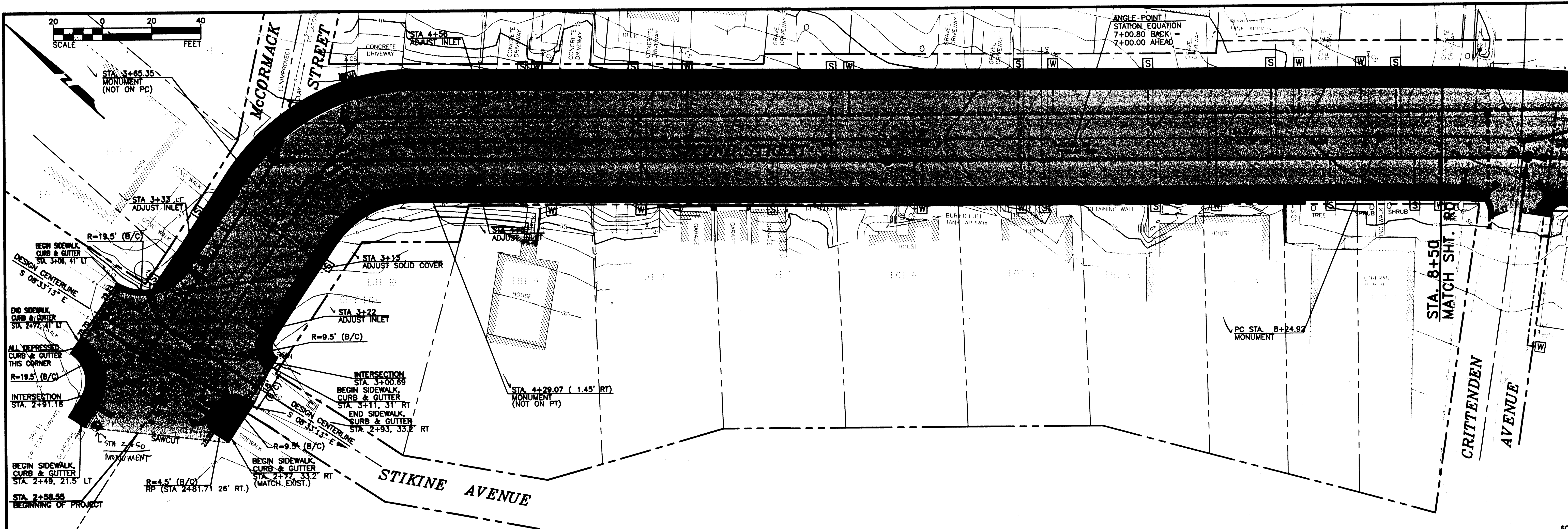
DRAWN BY
RSH/WAH

CHECKED BY:

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
TYPICAL SECTIONS AND DETAILS

DATE SEPT 2000	SHEET C04 OF 27
SCALE AS SHOWN	
JOB NUMBER 99096	

SCALE	C04
AS SHOWN	
JOB NUMBER	OF
99096	27



NO.	REVISIONS	BY	DATE

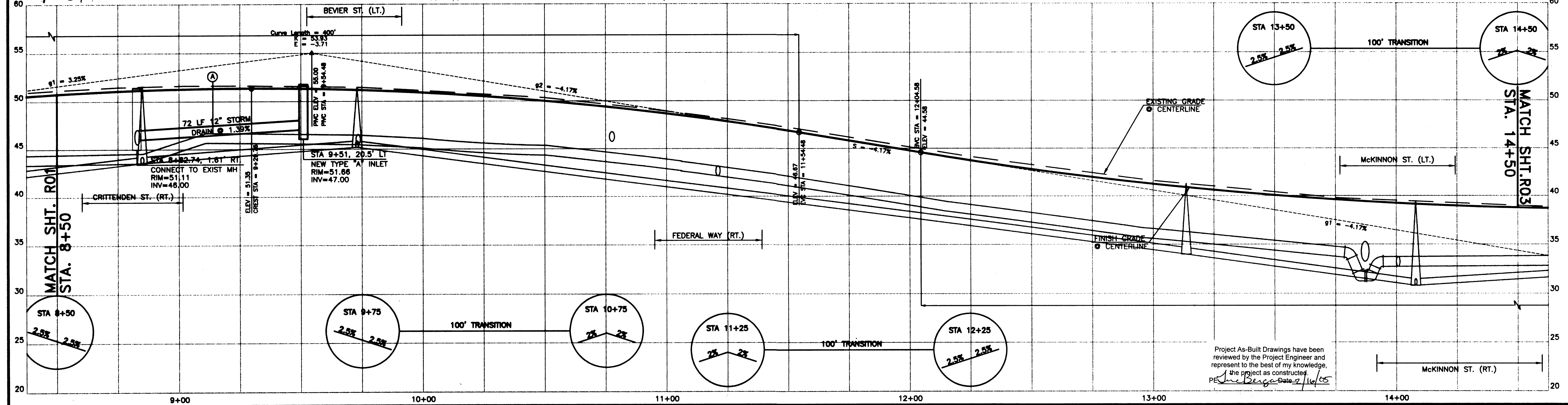
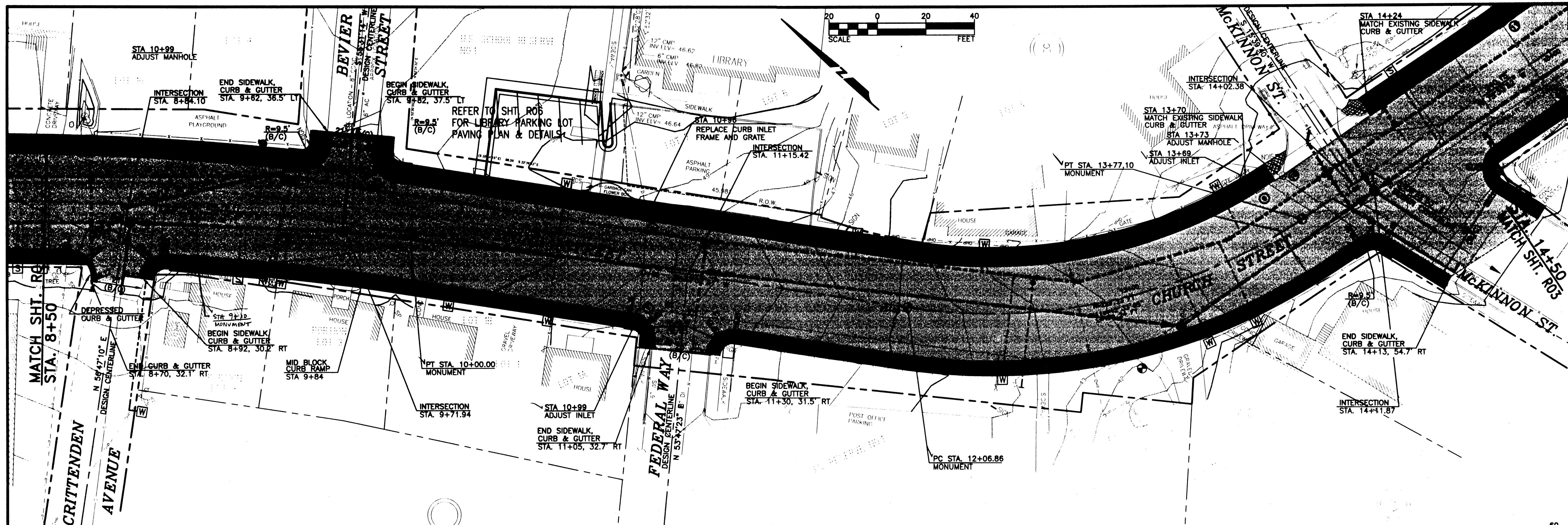
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CHECKED BY:

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
BOP STATION 2+51.26 to 8+50

DATE
SEPT 2000
SCALE
AS SHOWN
JOB NUMBER
99096
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R01
OF
27



NO.	REVISIONS	BY	DATE

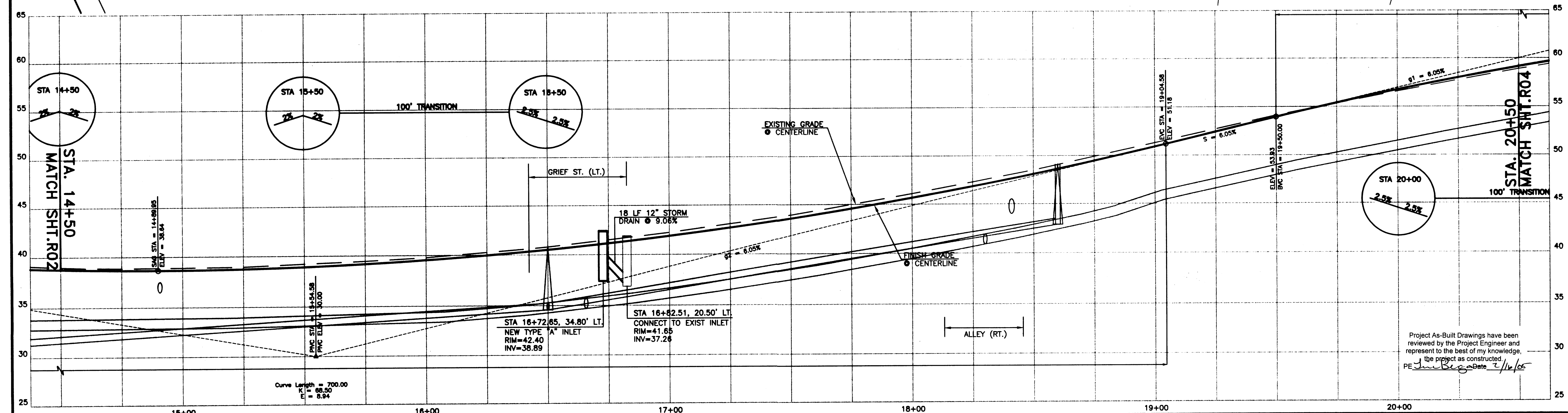
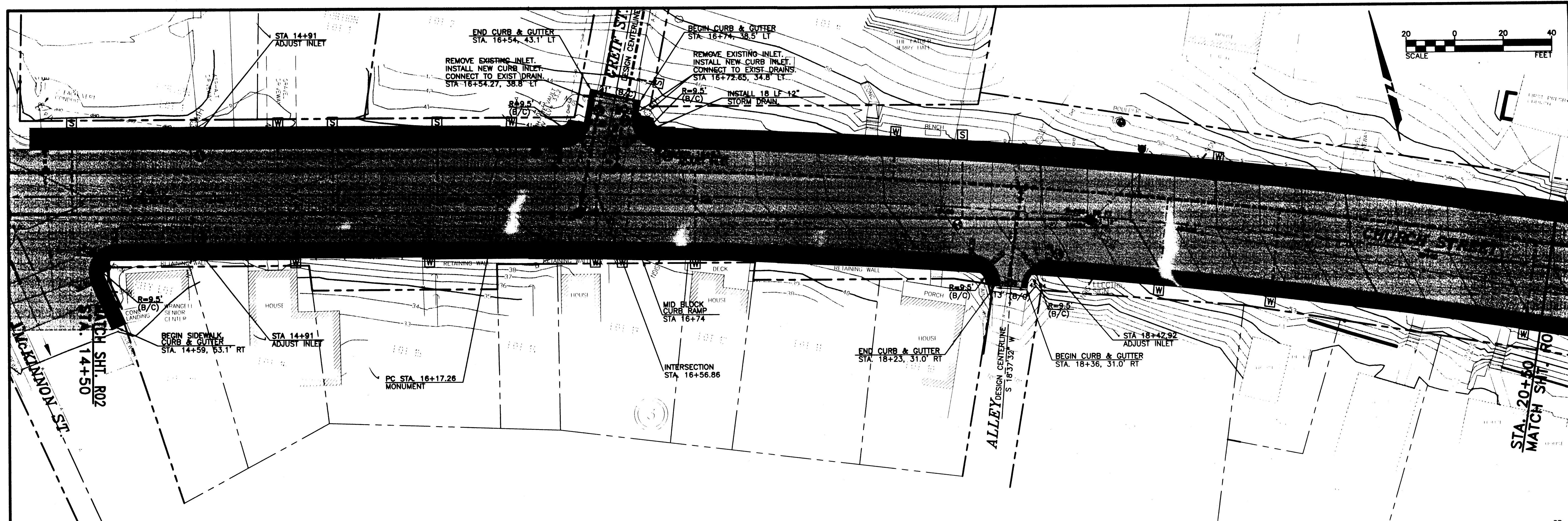
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CONSULTING ENGINEERS & SURVEYORS

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FAX: (360) 647-9061

DESIGNED BY:
RSH
DRAWN BY:
RSH/VAH
CHECKED BY:

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
STA. 8+50 to 14+50

DATE
SEPT 2000
SCALE
AS SHOWN
JOB NUMBER
99096
SHEET
R02
OF
27



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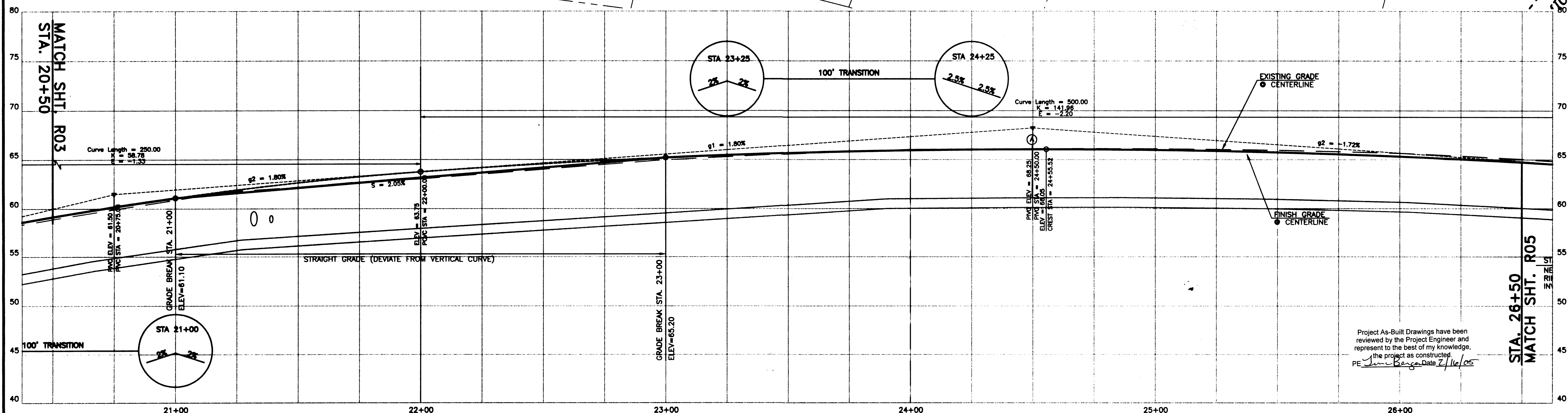
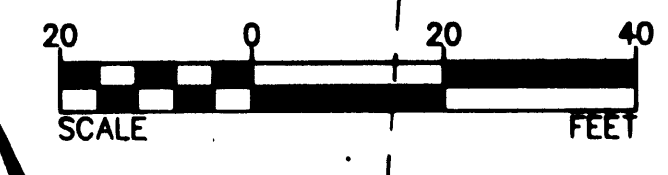
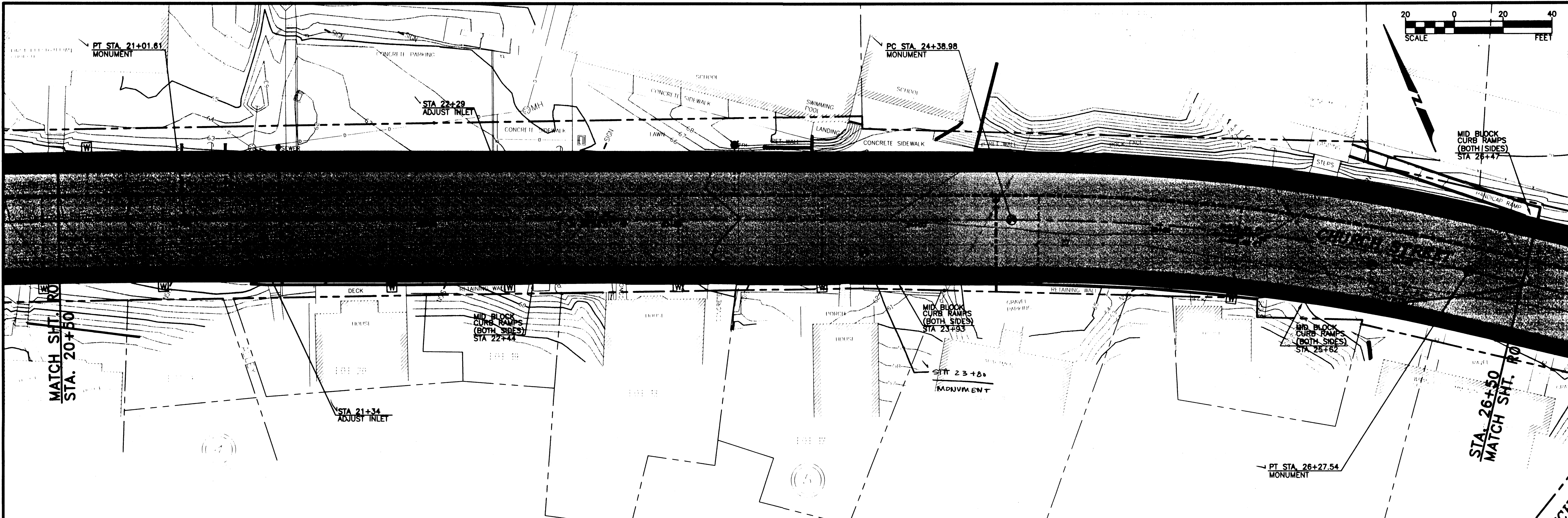
DESIGNED BY: RSH
DRAWN BY: RSH/WAH
CHECKED BY: *AKC*

STATE OF ALASKA
49TH
WILLIAM A. HUNTER
NO. CE0123
REGISTERED PROFESSIONAL ENGINEER

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
STATION 14+50 TO 20+50

DATE SEPT 2000	SHEET R03
SCALE AS SHOWN	OF
JOB NUMBER 99096	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *Jim Beggs* Date *2/16/05*

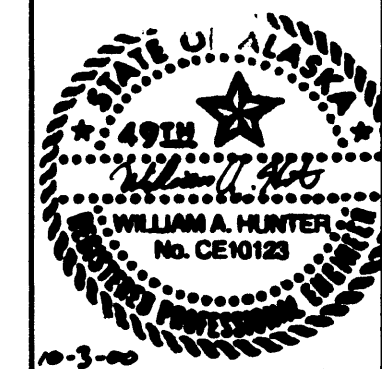


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *Jim Berger* Date 7/16/05

NO.	REVISIONS	BY	DATE

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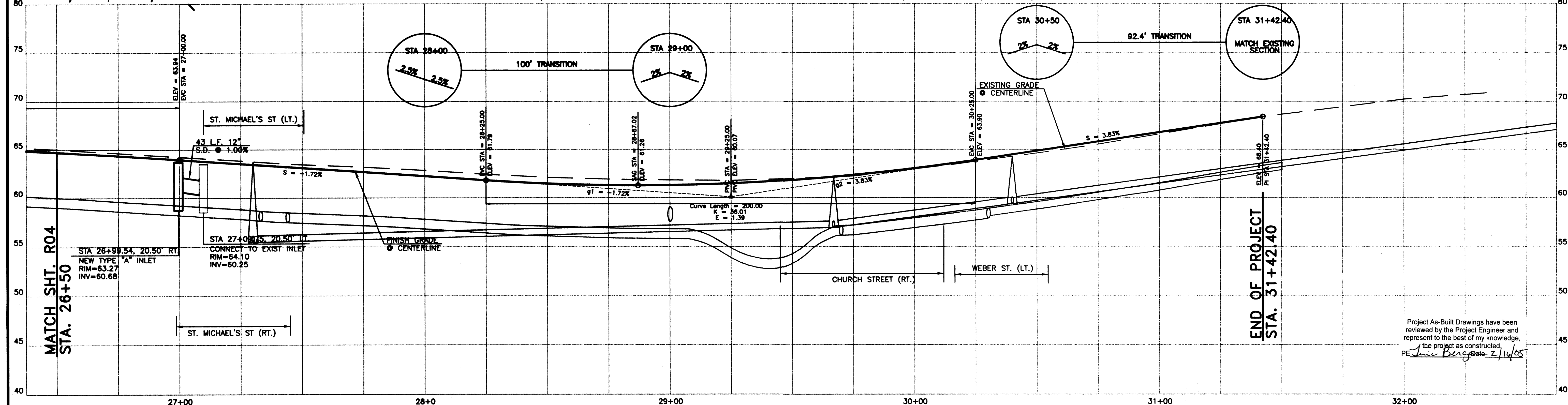
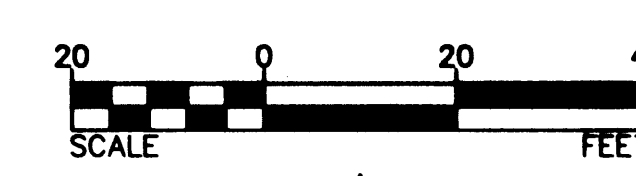
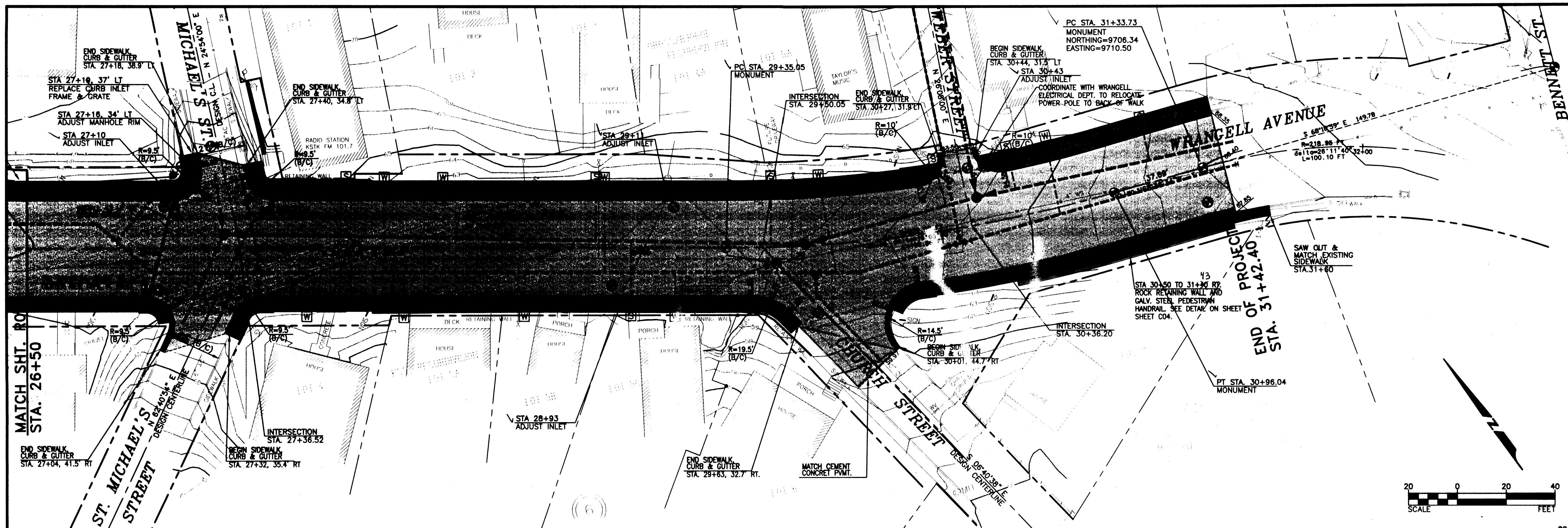
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 RSH/WAH
 CHECKED BY:
 MKL

CITY OF WRANGELL
 WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
 STATION 20+50 to 26+50

DATE SEPT 2000	SHEET R04
SCALE AS SHOWN	OF
JOB NUMBER 99096	27

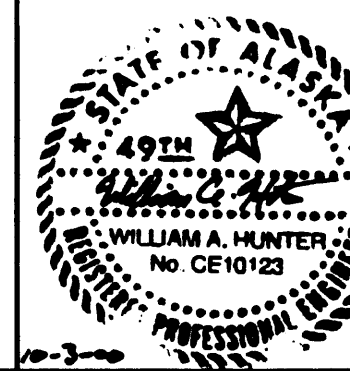


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *June Berg* Date *2/14/05*

NO.	REVISIONS	BY	DATE

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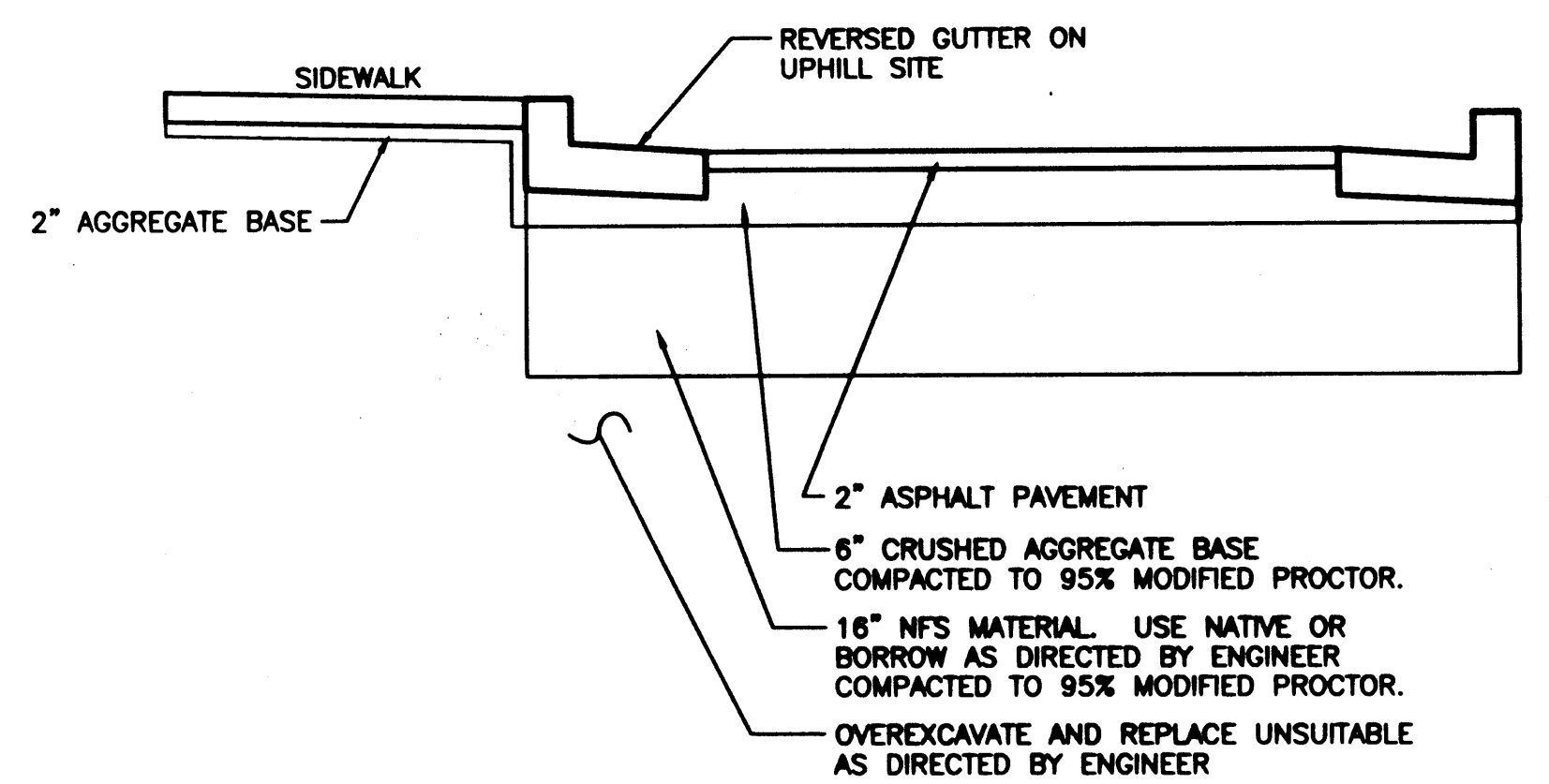
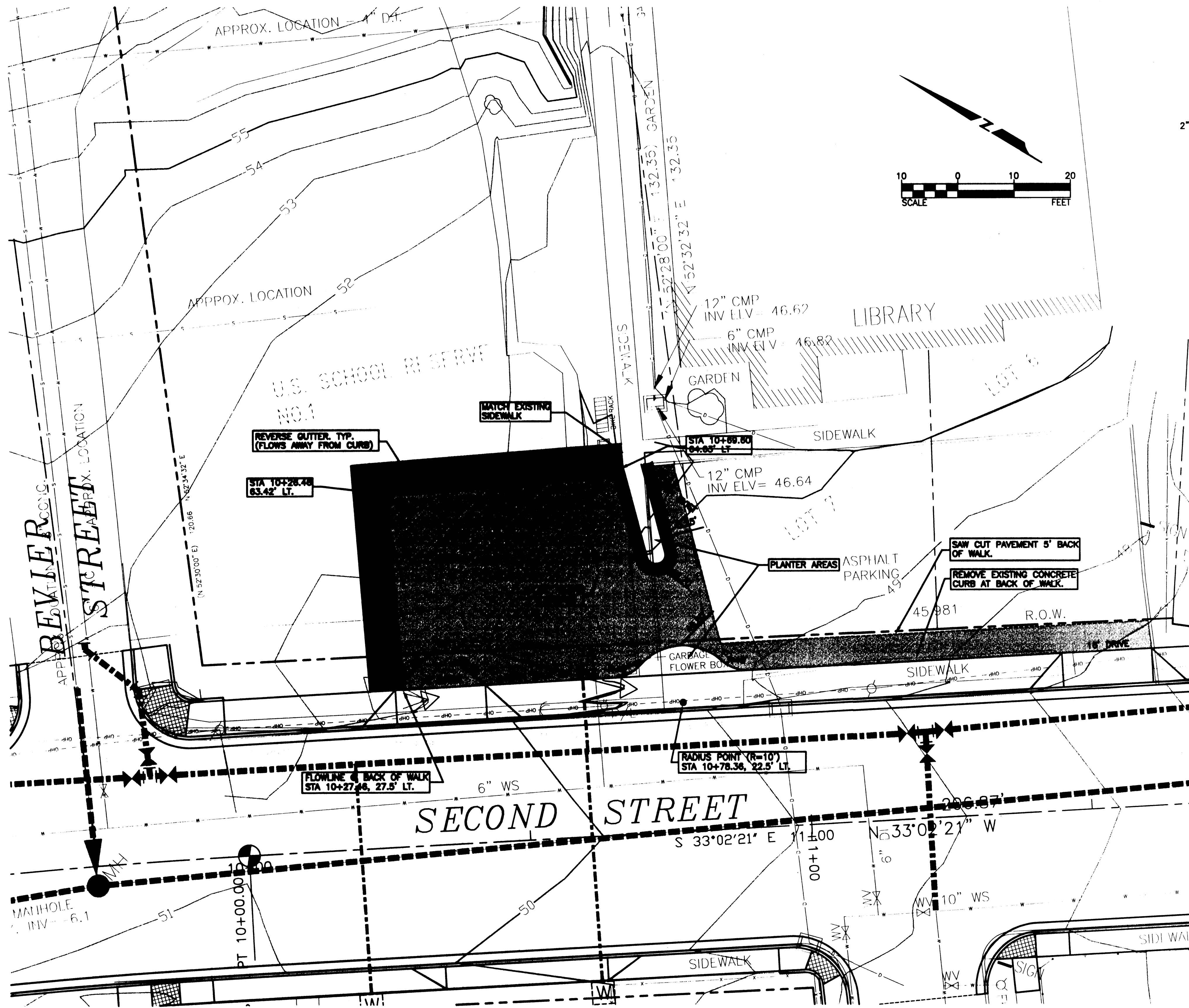
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 CHECKED BY:
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CITY OF WRANGELL
 WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
 STATION 26+50 to EOP STA. 31+42.40

DATE SEPT 2000	SHEET R05
SCALE AS SHOWN	OF
JOB NUMBER 99096	27



PARKING LOT PAVING SECTION

**PARKING LOT EXPANSION
ESTIMATE OF QUANTITIES**

Item No	Description	Unit	Quantity
202 (2)	Removal of Pavement	Square Yard	77
202 (9)	Removal of Curb and Gutter	Linear Foot	60
203 (3)	Unclassified Excavation	Cubic Yard	150
203 (5)	Borrow	Cubic Yard	80
301 (1)	Crushed Aggregate Base Course	Ton	80
401 (1)	Asphalt Concrete Pavement, Type II, Class B	Ton	27
608 (1)	Concrete Sidewalk	Square Yard	38
609 (2)	Curb and Gutter, Type 1	Linear Foot	118
670 (1)	Painted Traffic Markings	Lump Sum	All Required

NOTES:
1. ESTIMATE OF QUANTITIES IS INTENDED FOR INFORMATION PURPOSES ONLY. ALL MATERIAL AND WORK REQUIRED TO CONSTRUCT THE CITY OF WRANGELL PUBLIC PARKING LOT EXPANSION SHALL BE INCLUDED IN THE LUMP SUM BID ITEM NO. 628 (1).

BASIS OF ESTIMATE

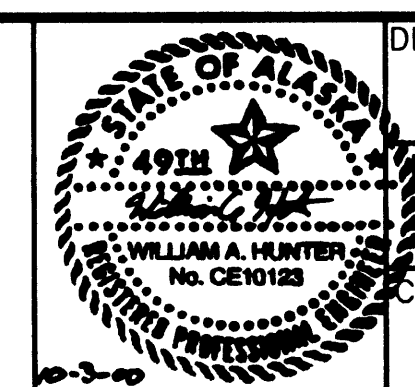
Item No	Pay Item	Estimating Factor
301(1)	Crushed Aggregate Base Course	1.95 TON/CY
306(1)	Asphalt Treated Base Course	2.05 TON/CY
401(1)	Asphalt Concrete Pavement, Type II, Class B	2.05 TON/CY

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *Jack Bergan* Date: 7/16/05

NO.	REVISIONS	BY	DATE

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RSH
DRAWN BY:
RSH/WAH
CHECKED BY:
ML

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
LIBRARY PARKING LOT SITE PLAN

DATE SEPT 2000	SHEET R06
SCALE AS SHOWN	OF
JOB NUMBER 99096	27

GENERAL EROSION & SEDIMENT CONTROL REQUIREMENTS

1. BMPs: Best Management Practices (BMPs) referred to on this plan and in these notes shall be constructed and maintained as described in the Specifications.

2. EXTENT: The extent of erosion and sedimentation control measures is dependent on weather conditions, site slopes, length of time ground is left exposed, and the area of exposed ground. The contractor shall at all times minimize the risk of site erosion by careful scheduling and by implementing and maintaining BMPs until the site is permanently stabilized.

3. UNWORKED SOILS: All exposed and unworked soils shall be stabilized by suitable and timely application of BMPs.

4. VEGETATION: Existing vegetation shall be preserved where attainable.

5. SLOPES: Cut and fill slopes shall be constructed in a manner that will minimize erosion. Slopes shall be stabilized as soon as possible.

6. OUTLETS: Stabilization adequate to prevent erosion of outlets and adjacent stream banks shall be provided at the outlets of all conveyance systems.

7. INLETS: All existing storm drain inlets shall be properly maintained and protected from siltation. Utilizing silt traps or other approved systems.

8. ENTRANCES: Wherever unpaved construction vehicle access routes intersect paved roads, provision shall be made to minimize the transport of sediment (mud) onto the paved road. If sediment is transported onto a road surface, the roads adjacent to the construction site shall be cleaned on a weekly basis. Street washing shall be allowed only after other methods to prevent the transport or to remove the sediments are unsuccessful.

9. SITE RUNOFF: Prior to leaving the site, stormwater runoff shall pass through a sediment pond or trap, or other appropriate BMPs.

10. ADJACENT PROPERTIES: Properties adjacent to the project shall be protected from sediment deposition.

11. SEDIMENT PONDS & TRAPS: Sediment ponds and traps, perimeter dikes, sediment barriers, and other BMPs intended to trap sediment on-site shall be constructed as a first step in grading. These BMPs shall be functional before land disturbing activities take place. Earthen structures used for sediment control such as dams, dikes, and diversions shall be stabilized as soon as possible.

12. DOWNSTREAM WATERWAYS & PROPERTY: Properties and waterways downstream from the construction site shall be protected from erosion due to any temporary changes in volume, velocity, and peak flow of stormwater runoff from the project site.
13. REMOVAL OF BMPs: All temporary erosion and sediment control BMPs shall be removed within 30 days after final site stabilization is achieved or after the temporary BMPs are no longer needed. Trapped sediment shall be removed or stabilized on-site. Disturbed soil areas resulting from removal shall be permanently stabilized.

14. INSPECTIONS: All BMPs shall be inspected, maintained, and repaired by the Contractor as needed to assure continued performance of their intended function. All on-site erosion and sediment control measures shall be inspected at least once every seven days and within 24 hours after any storm event of greater than 0.5-inches of rain per 24-hour period.

15. REPORTS: The Contractor, and the Engineer, shall each prepare and maintain reports summarizing the scope of inspections, the personnel conducting the inspection, the dates of the inspection, major observations relating to the implementation of the Stormwater Pollution Prevention Plan, and actions taken as a result of these inspection.

16. OTHER REQUIREMENTS: The Engineer, Owner, City of Wrangell, Department of Transportation and Public Facilities, or other agencies may require BMPs in addition to what is shown on this plan in order to prevent violations of surface water quality and ground water quality. The contractor shall implement the BMPs as required.

16. This project disturbs approximately 4.0 acres.

PROJECT WIDE BMP'S

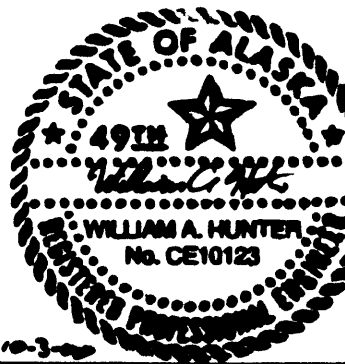
1. SEE APPENDIX B IN THE SPECIFICATIONS FOR PROJECT WIDE BMP DETAILS.
2. DUST CONTROL: CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE DURATION OF THE PROJECT. ALL WATERING OR OTHER METHODS OF DUST CONTROL SHALL BE INCLUDED IN THE LUMP SUM BID ITEM NO. 641(2) EROSION AND POLLUTION CONTROL.
3. STORM DRAIN INLET PROTECTION: ALL STORM DRAIN INLETS SHALL BE PROTECTED AS DESCRIBED IN THE SPECIFICATIONS. ALL INLET PROTECTION SHALL BE INCLUDED IN THE LUMP SUM BID ITEM NO. 641(2) EROSION AND POLLUTION CONTROL.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 7/16/05

NO.	REVISIONS	BY	DATE

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CONSULTING ENGINEERS & SURVEYORS

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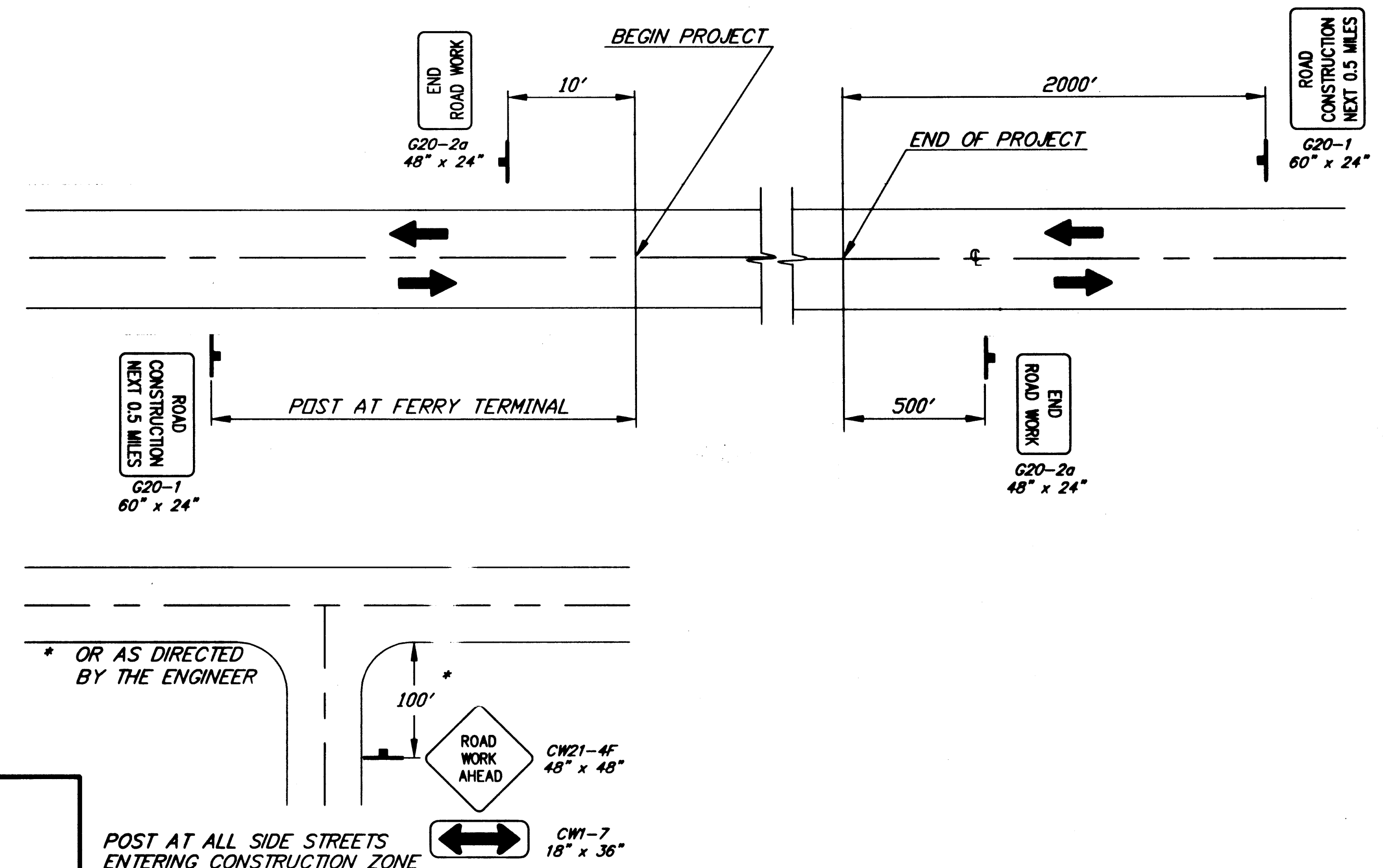
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RSH
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RSH/WAH
CHECKED BY:
[Signature]

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN

DATE	SHEET
SEPT 2000	R08
SCALE	OF
AS SHOWN	27
JOB NUMBER	99096

TRAFFIC CONTROL NOTES

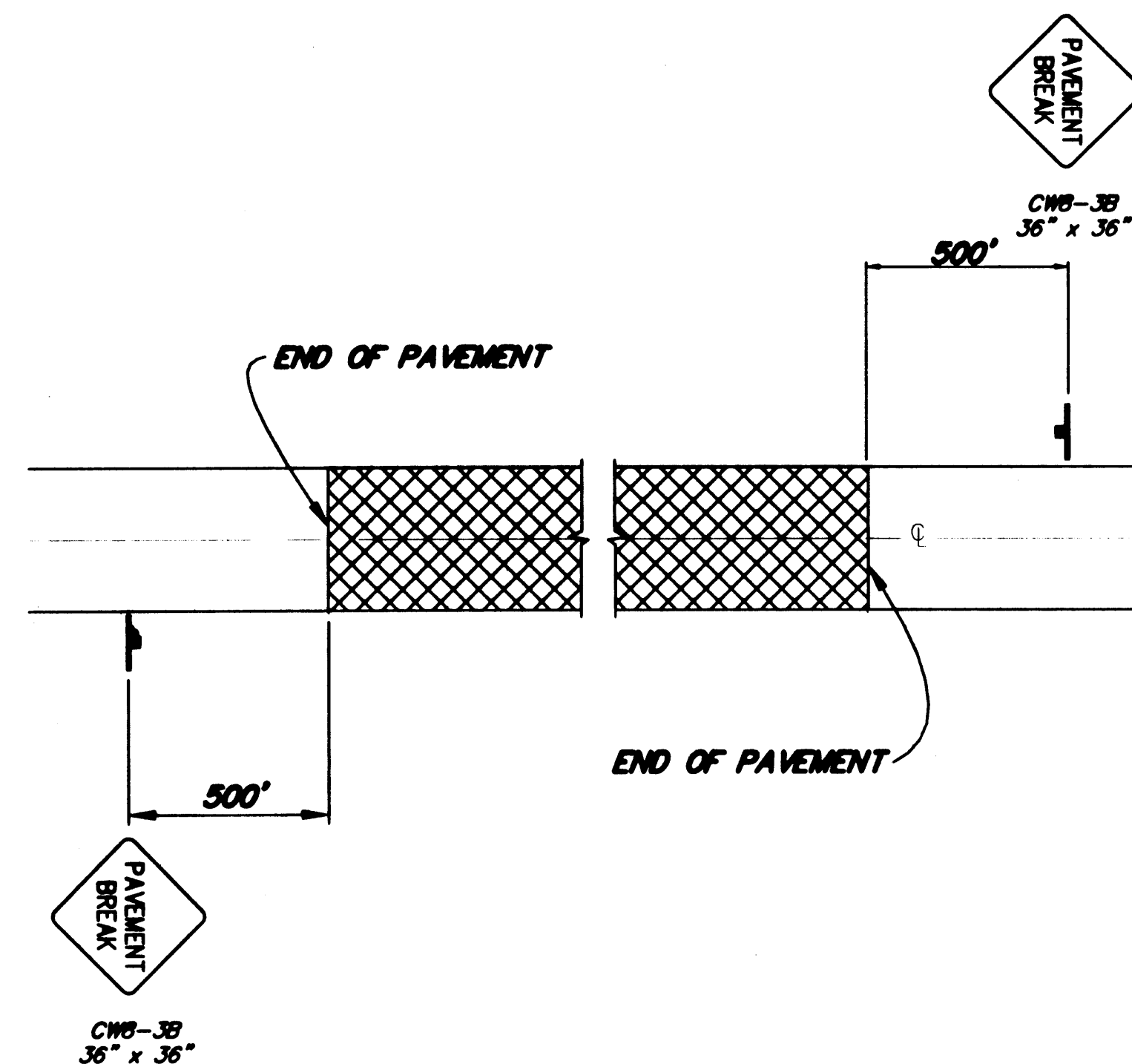
1. ACCESS TO AND FROM THE FERRY TERMINAL SHALL BE MAINTAINED AT ALL TIMES BY UTILIZING SIGNED DETOURS AND/OR CONSTRUCTION LANES AS APPROPRIATE.
2. A PULLOUT LANE SHALL BE MAINTAINED AT ALL TIMES IN FRONT OF THE SCHOOL FOR DROP-OFF AND PICKUP OF STUDENTS BY SCHOOL BUSES. AN ADDITIONAL LANE SHALL BE MAINTAINED FOR TRAFFIC TO PASS THE PARKED BUSES.
3. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORK HOURS.
4. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10 FEET.
5. CONSTRUCTION SIGNS SHALL BE IN PLACE ONLY WHEN THE CONDITIONS THEY WARN ABOUT EXIST.
6. DELINEATE PEDESTRIAN AND BICYCLE ACCESS WITH TRAFFIC CONES AS REQUIRED DURING CONSTRUCTION ACTIVITIES. CONE SPACING BE 10 FEET MAXIMUM.
7. PROVIDE VEHICULAR ACCESS through WORK ZONES AS REQUIRED BY THE ENGINEER.
8. FLOOD LIGHTS SHALL BE PROVIDED FOR FLAGGER STATIONS DURING NIGHT OPERATIONS.
9. CHANNELIZATION DEVICES IF USED AT NIGHT SHALL BE LIT IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL.
10. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN TO NOTE THE GENERAL REQUIREMENTS FOR MAINTAINING ACCESS THROUGH THE CONSTRUCTION AREA. PLANS FOR SPECIFIC CONFIGURATIONS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. THE CONFIGURATIONS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THIS PLAN.



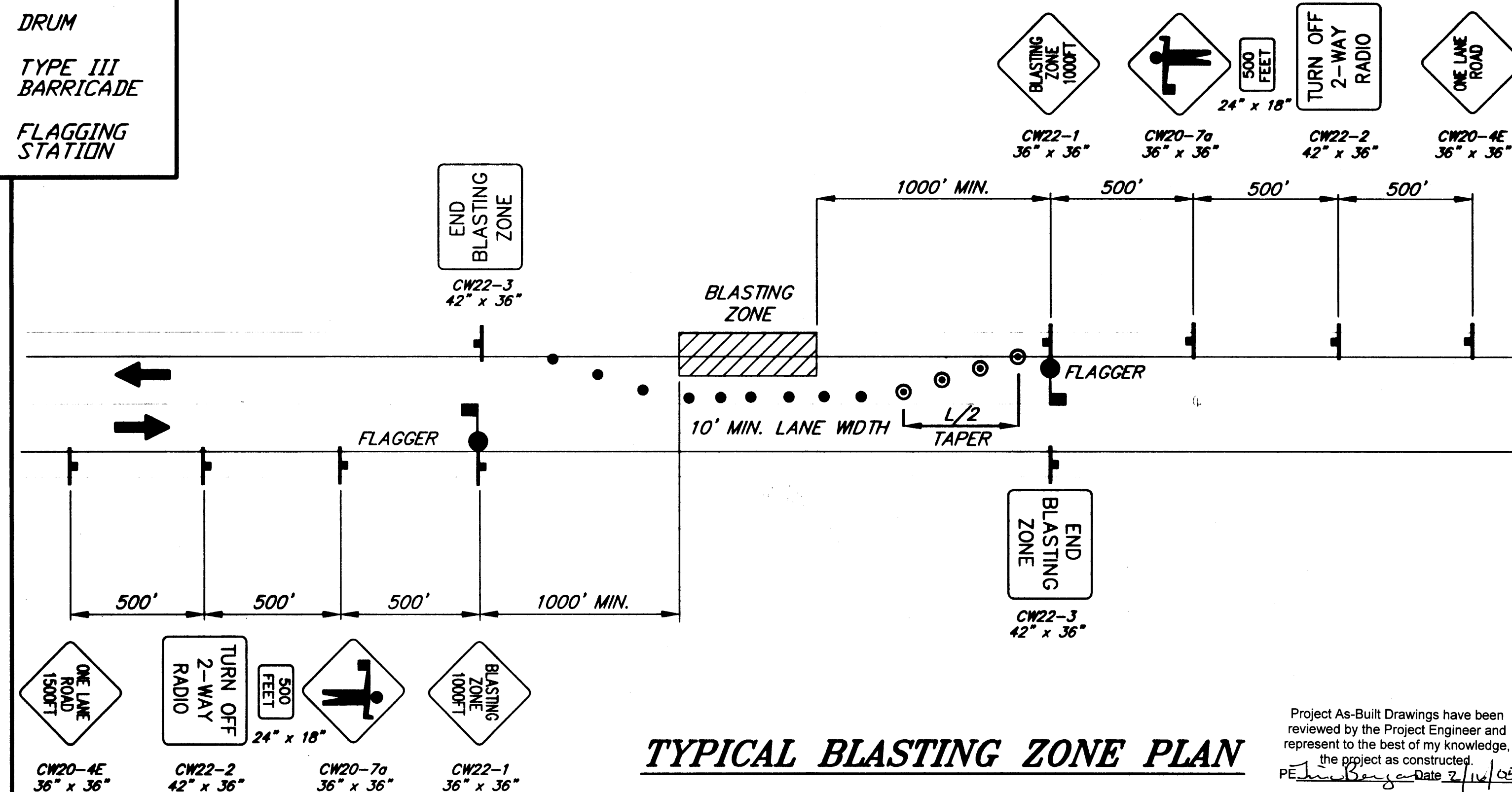
LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

PERMANENT CONSTRUCTION SIGNING



SIGNING FOR UNPAVED AREA

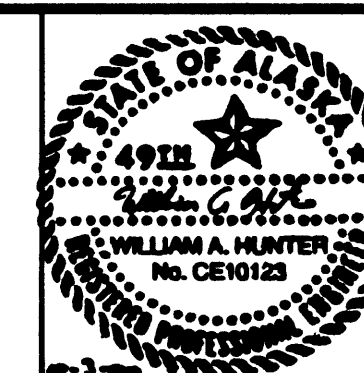


TYPICAL BLASTING ZONE PLAN

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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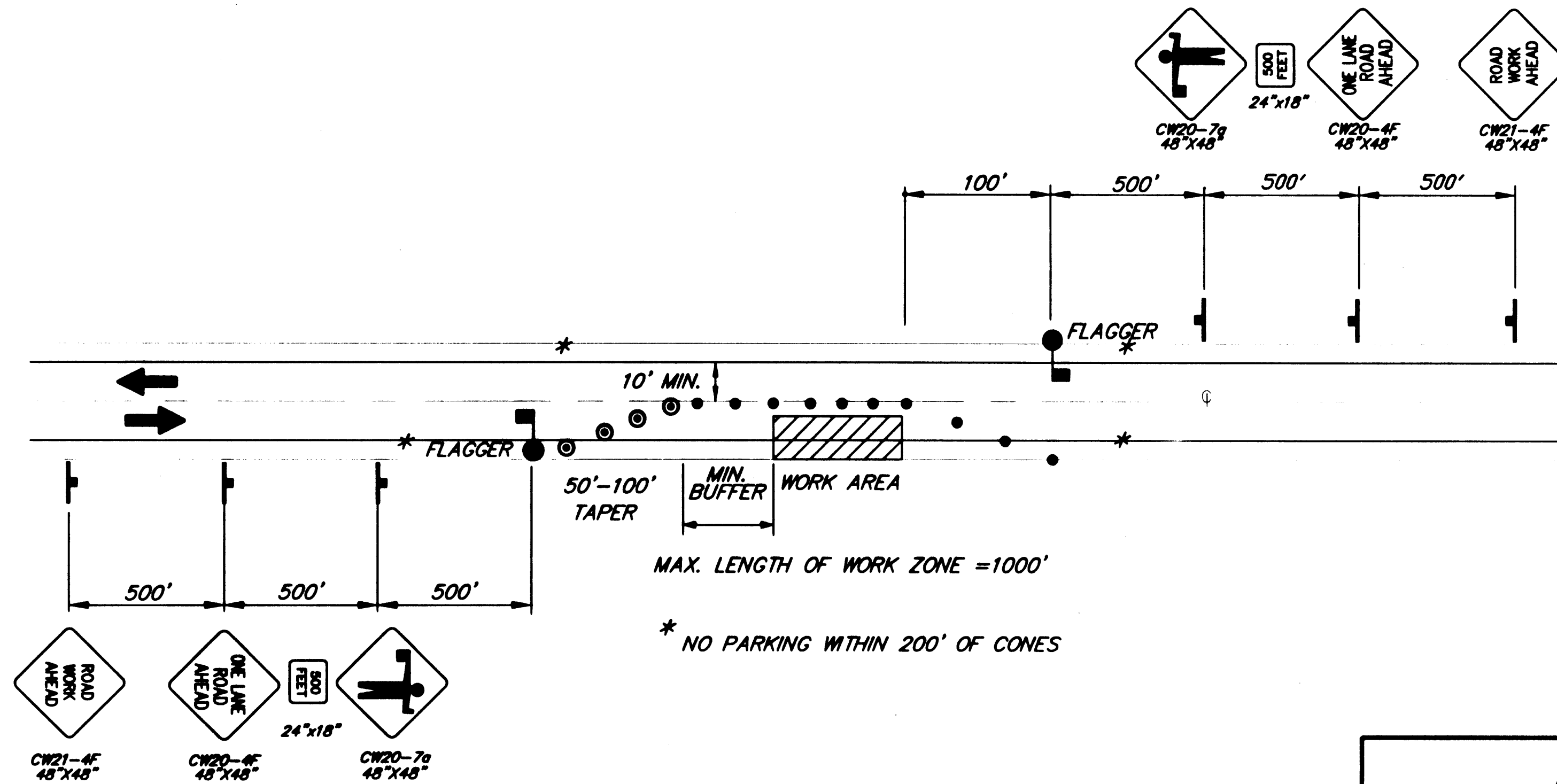
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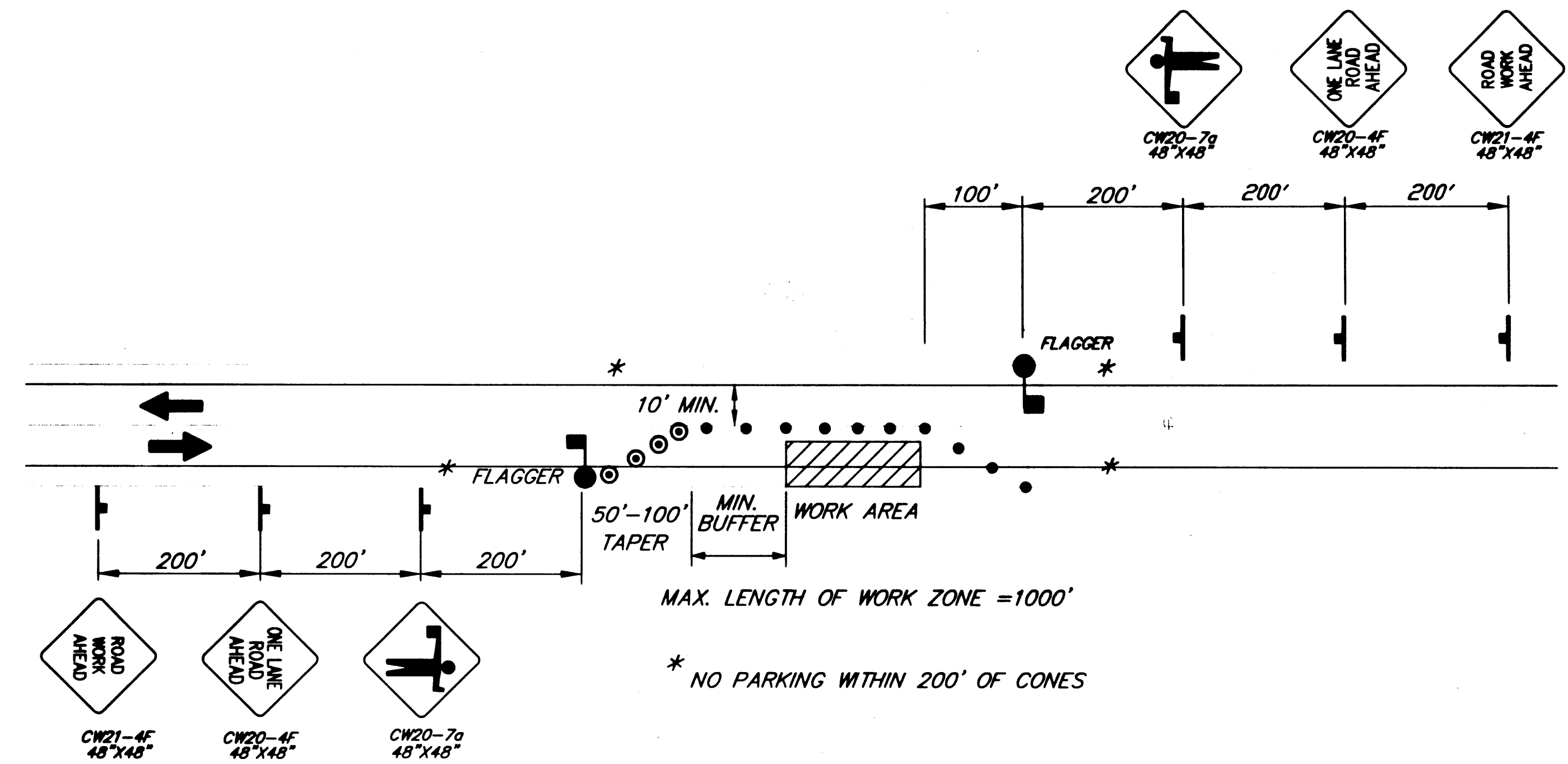
DESIGNED BY:
WAH
DRAWN BY:
WAH
CHECKED BY:
MK

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
TRAFFIC CONTROL PLAN

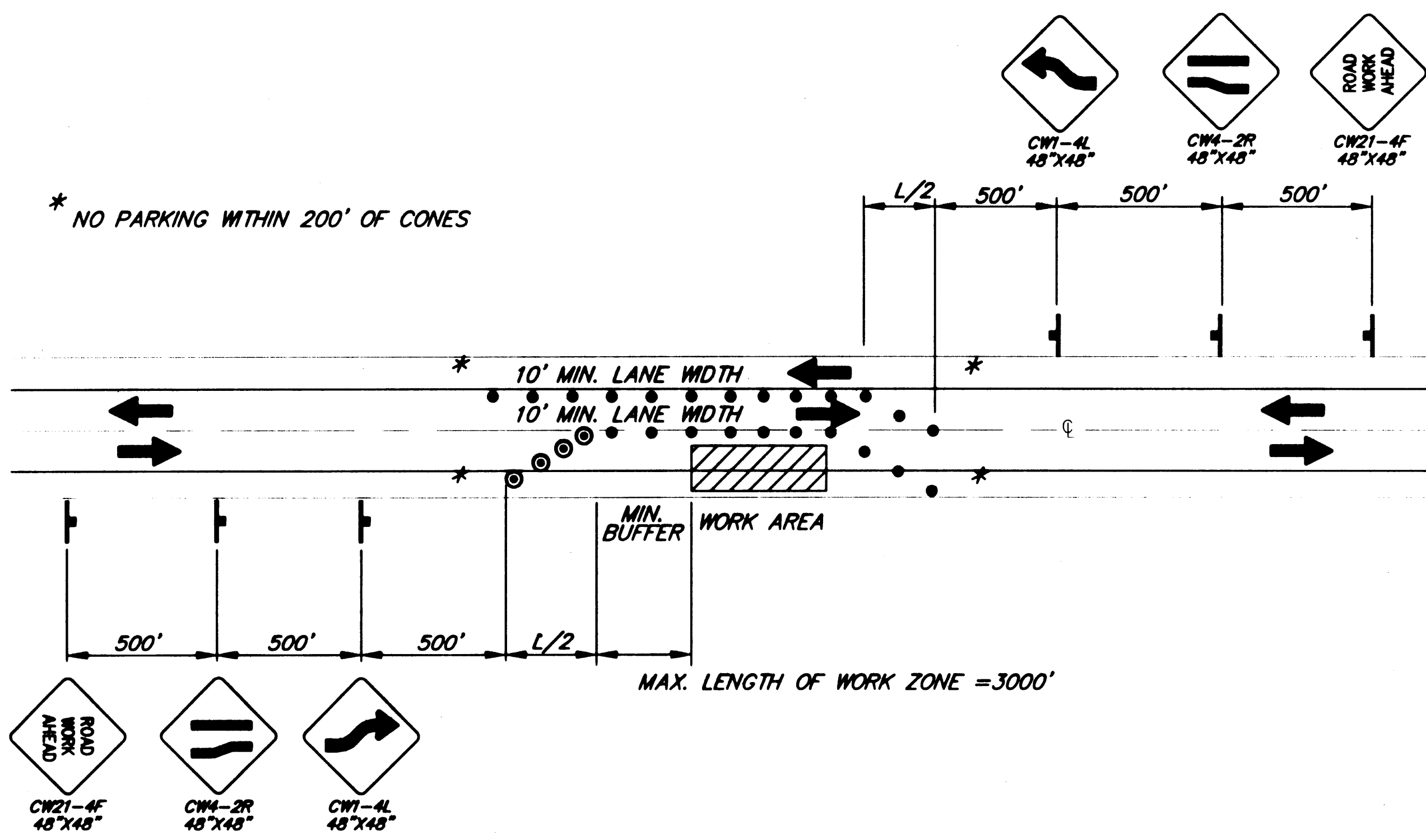
DATE
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JOB NUMBER
99096
SHEET
R09
OF
27



**SINGLE LANE CLOSURE
TWO LANE ROAD**



**SINGLE LANE CLOSURE
TWO LANE ROAD**



TWO-WAY TRAFFIC USING LEFT LANE

LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

FORMULAS FOR L (TAPER LENGTH)

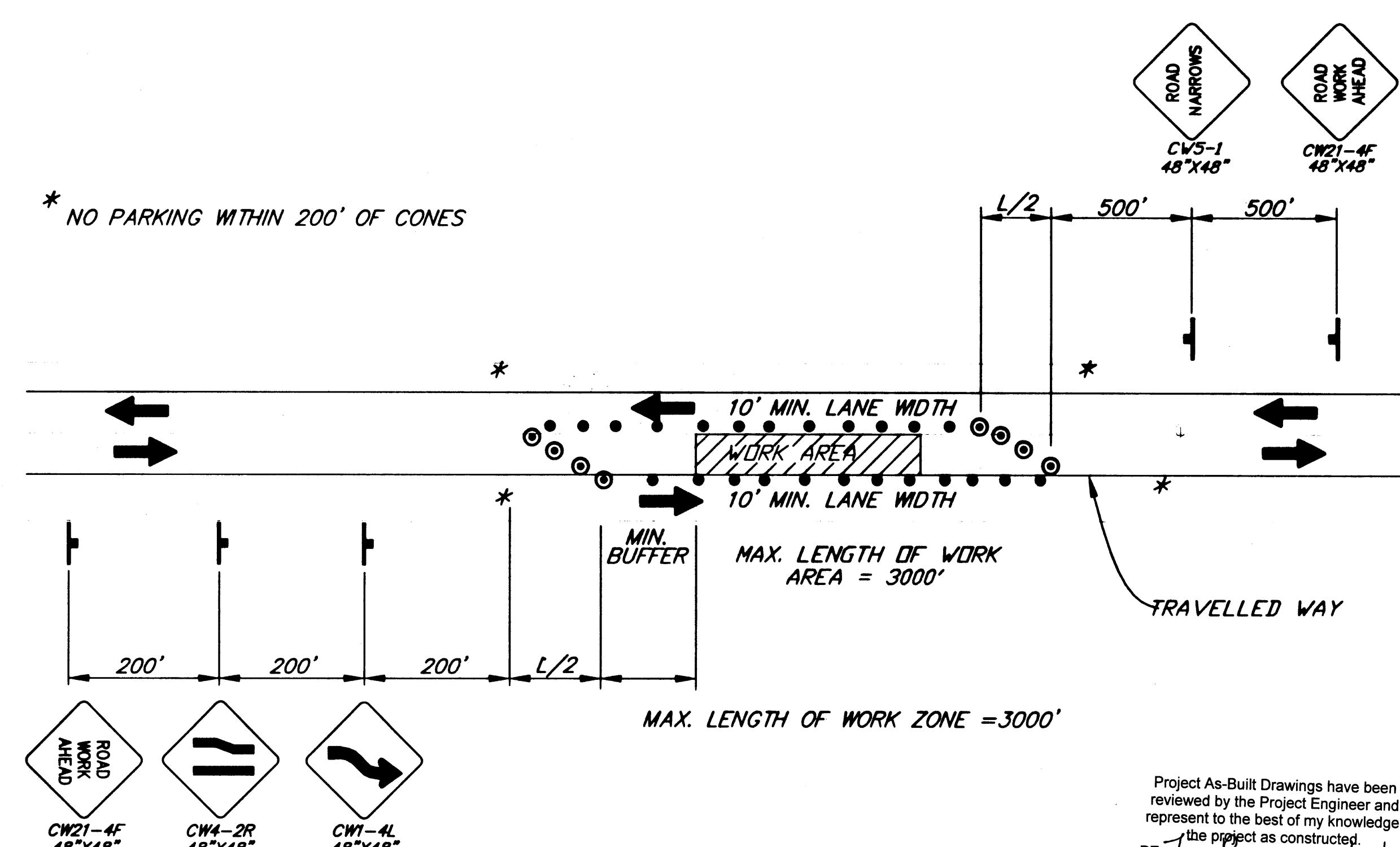
40 MPH OR LESS $L = \frac{W \times S^2}{60}$

45 MPH OR GREATER $L = W \times S$

WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT OR ANTICIPATED OPERATING SPEED

DRUM OR CONE SPACING = S (IN FEET)

MIN. BUFFER	
S	LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485



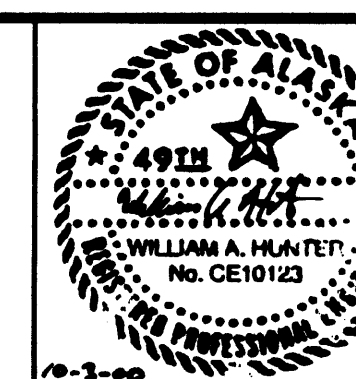
TWO-WAY TRAFFIC USING RIGHT SHOULDER

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

NO.	REVISIONS	BY	DATE

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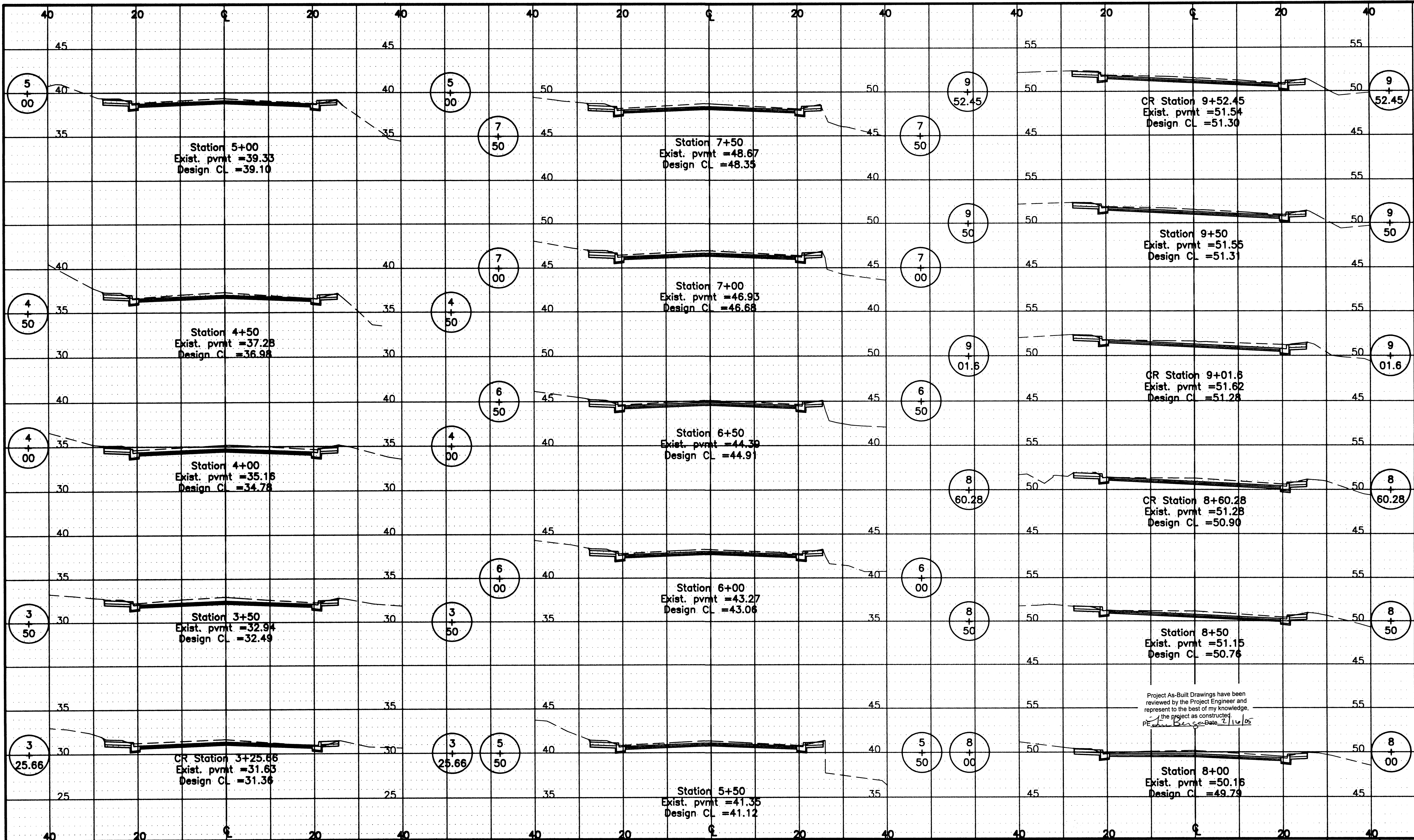


DESIGNED BY:
WAH
DRAWN BY:
WAH
CHECKED BY:
MHC

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
TRAFFIC CONTROL PLAN

DATE
SETP 2000
SCALE
AS SHOWN
JOB NUMBER
99096
SHEET
R10
OF
27

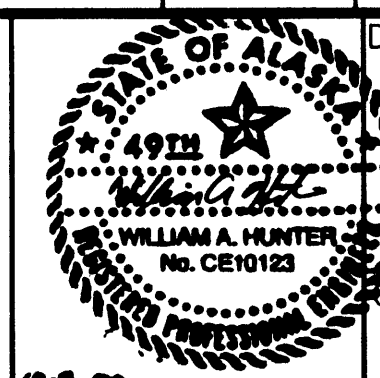
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 2/16/05



NO.	REVISIONS	BY	DATE

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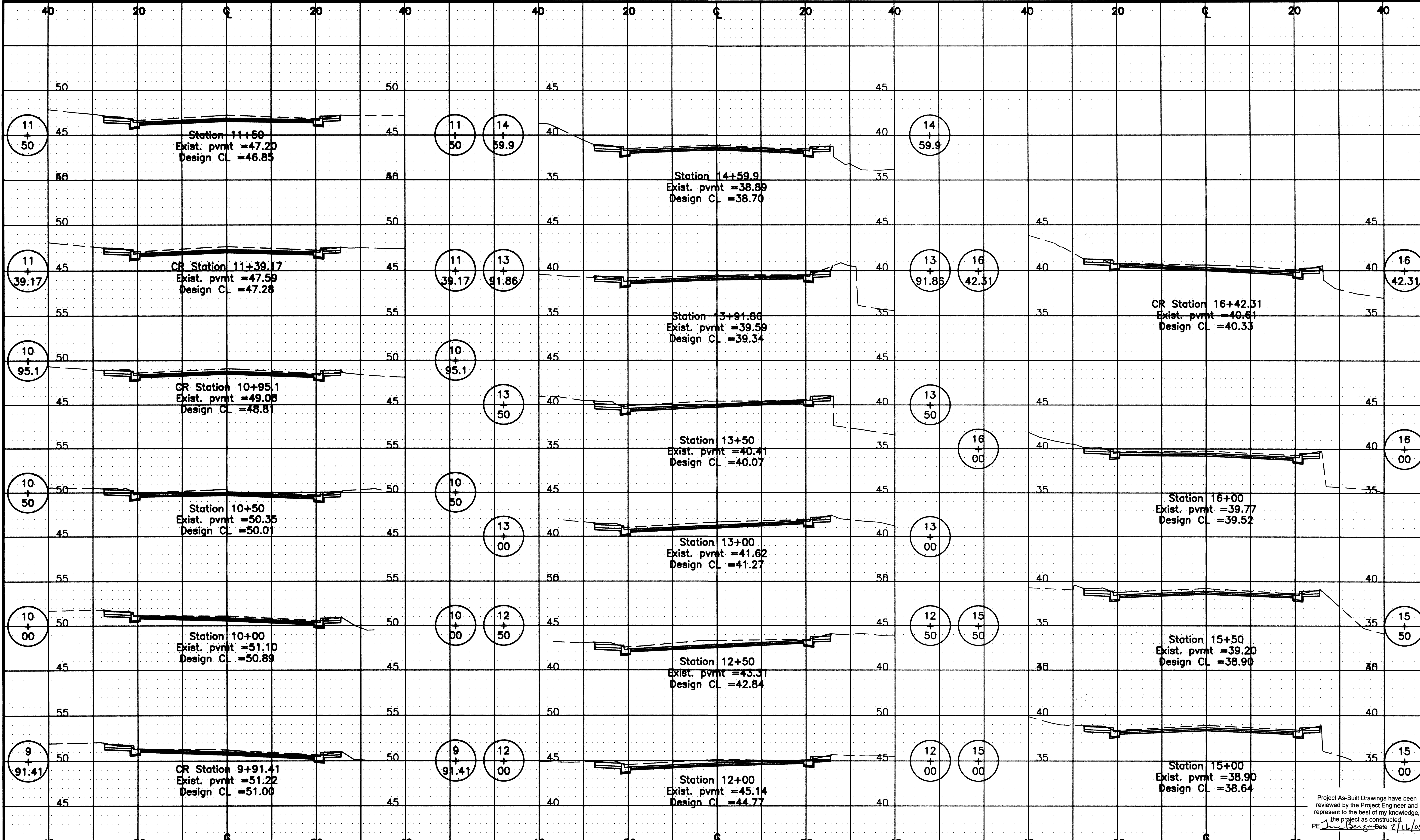


DESIGNED BY:
RSH
DRAWN BY:
RSH/VAH
CHECKED BY:
AMZ

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION

CROSS SECTIONS

DATE
SEPT 2000
SCALE
AS SHOWN
JOB NUMBER
99096
SHEET
R11
OF
27



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *Jim Benson* Date: 7/16/05

NO.	REVISIONS	BY	DATE

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 (360) 733-6100
 FAX: (360) 647-9061

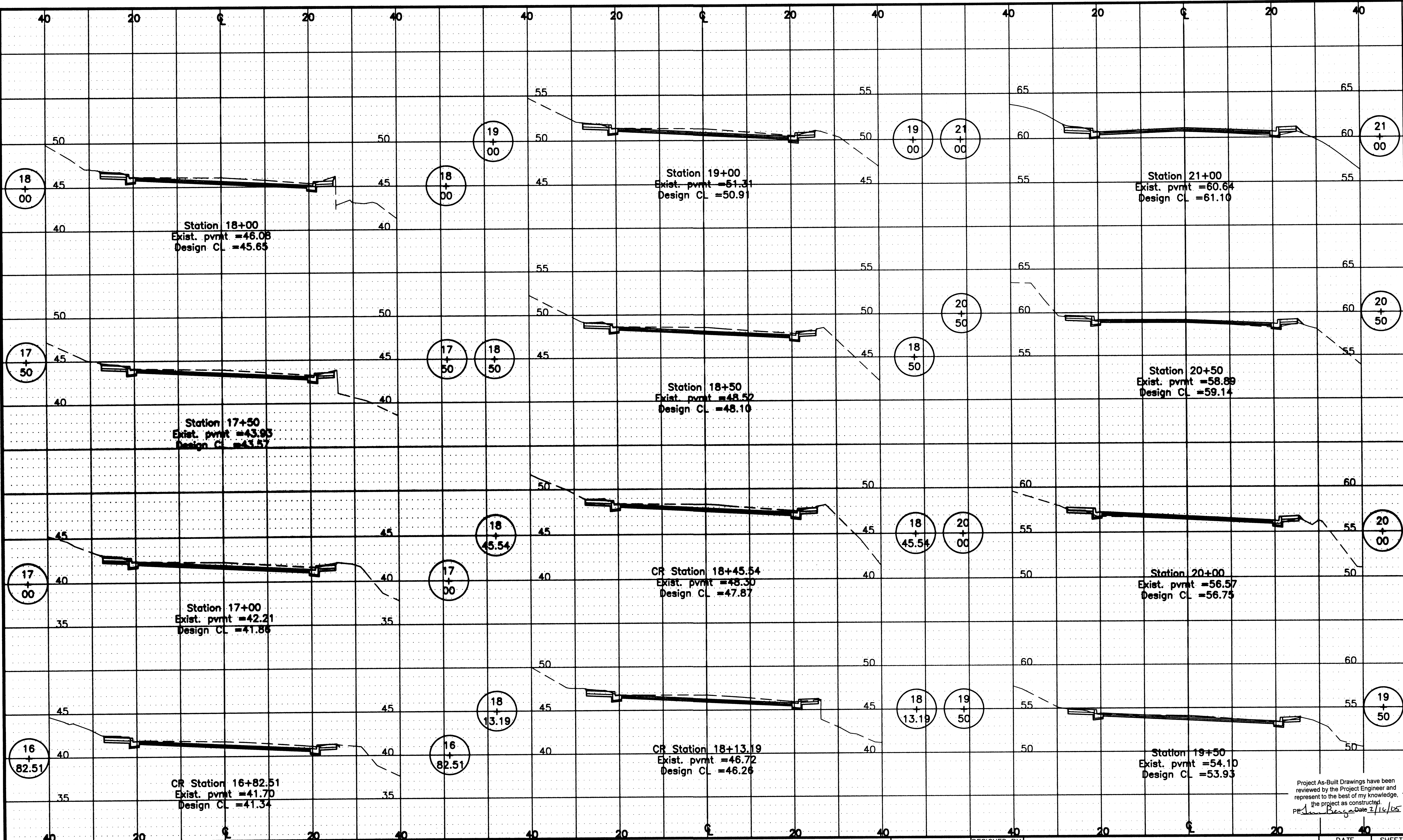


DESIGNED BY:
RSH
 DRAWN BY:
RSH/WAH
 CHECKED BY:
MCE

CITY OF WRANGELL
 WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION

CROSS SECTIONS

DATE SEPT 2000	SHEET R12
SCALE AS SHOWN	OF
JOB NUMBER 99096	27

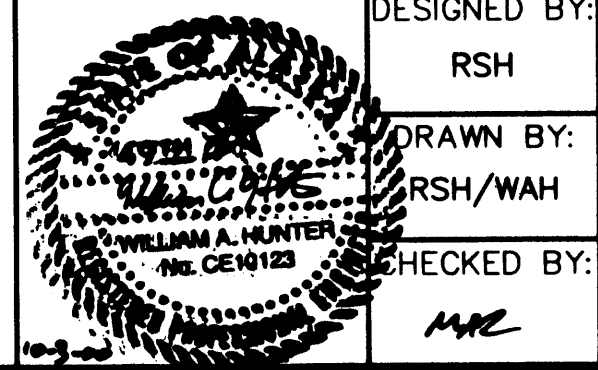


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date 2/14/05

NO.	REVISIONS	BY	DATE

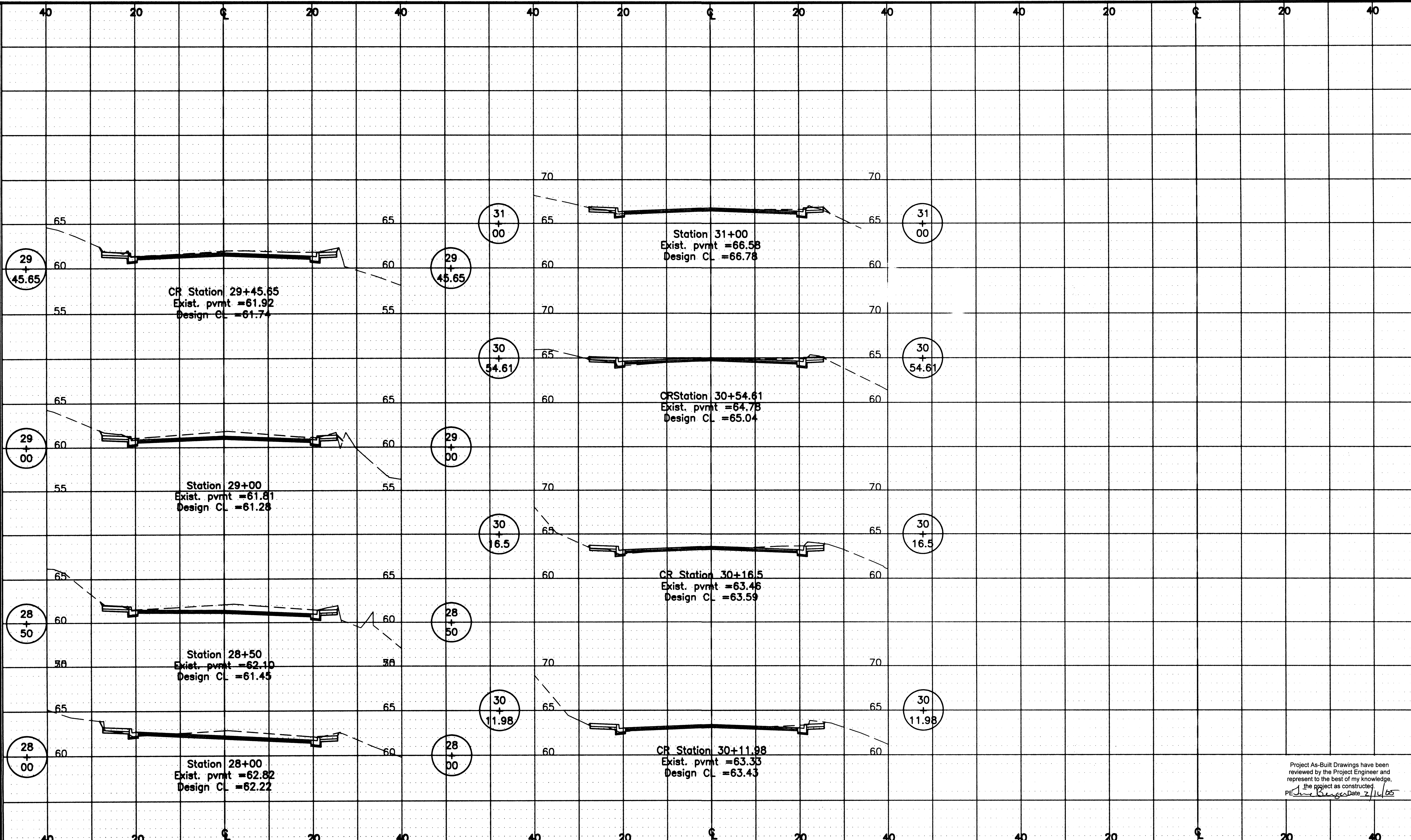
Wilson Engineering
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 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX: (360) 647-9061



DESIGNED BY: RSH
 DRAWN BY: RSH/VAH
 CHECKED BY: [Signature]
CITY OF WRANGELL
 WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
CROSS SECTIONS

DATE: SEPT 2000
 SCALE: AS SHOWN
 JOB NUMBER: 99096
 SHEET: **R13** OF **27**

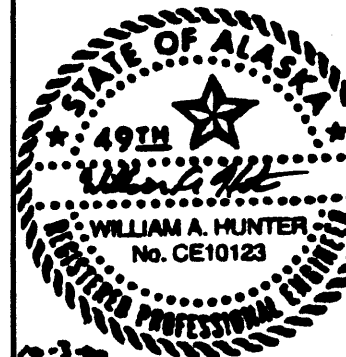


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date: 7/14/05

NO.	REVISIONS	BY	DATE

Wilson Engineering
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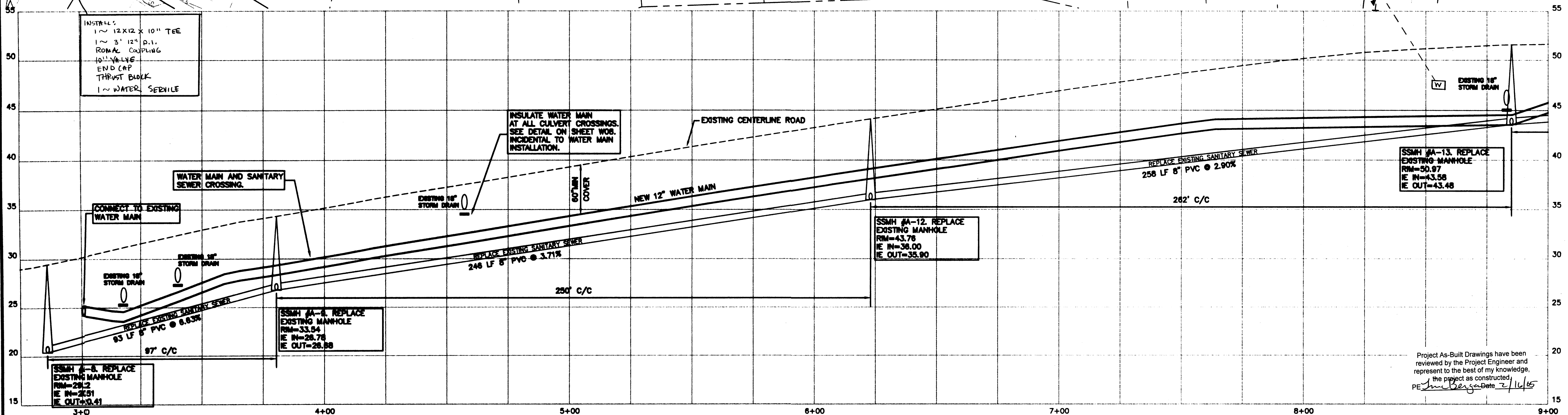
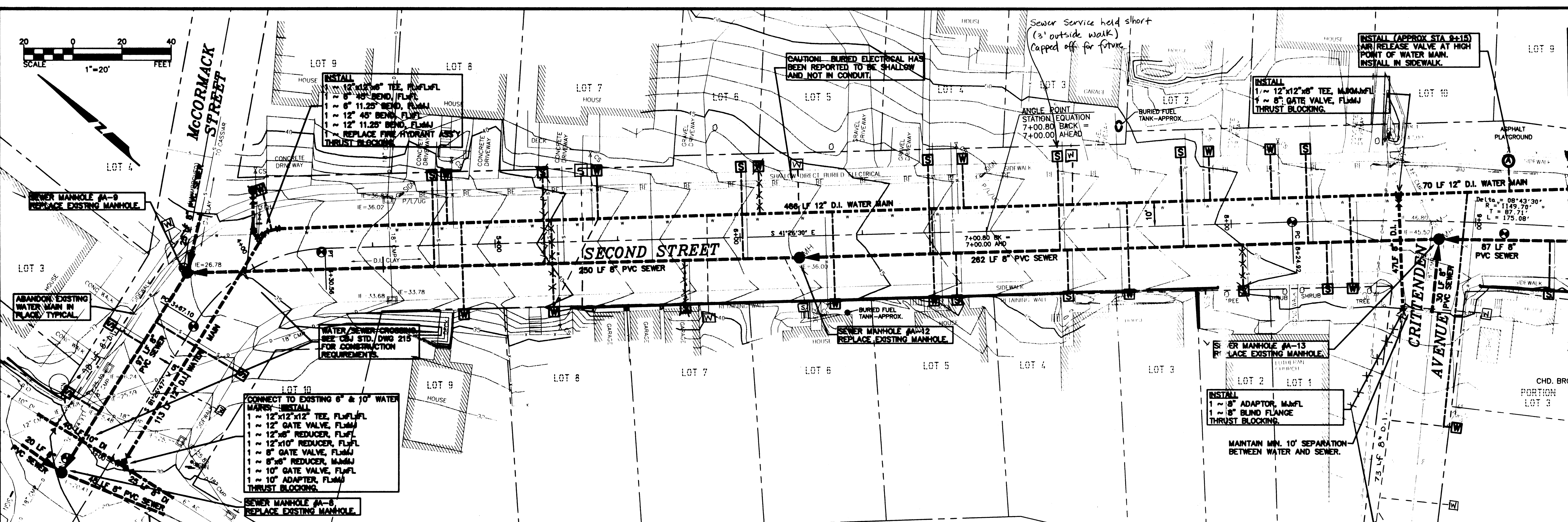
805 DUPONT STREET
 BELLINGHAM, WA 98225
 (360) 733-6100
 FAX: (360) 647-9061



DESIGNED BY:
RSH
 DRAWN BY:
RSH/WAH
 CHECKED BY:
[Signature]

CITY OF WRANGELL
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CROSS SECTIONS

DATE SEPT 2000	SHEET R15
SCALE AS SHOWN	OF
JOB NUMBER 99096	27



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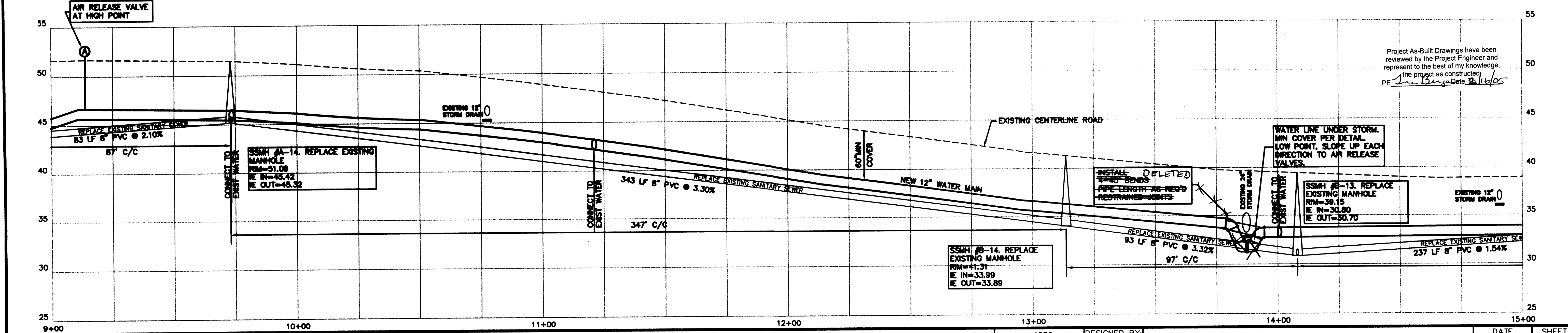
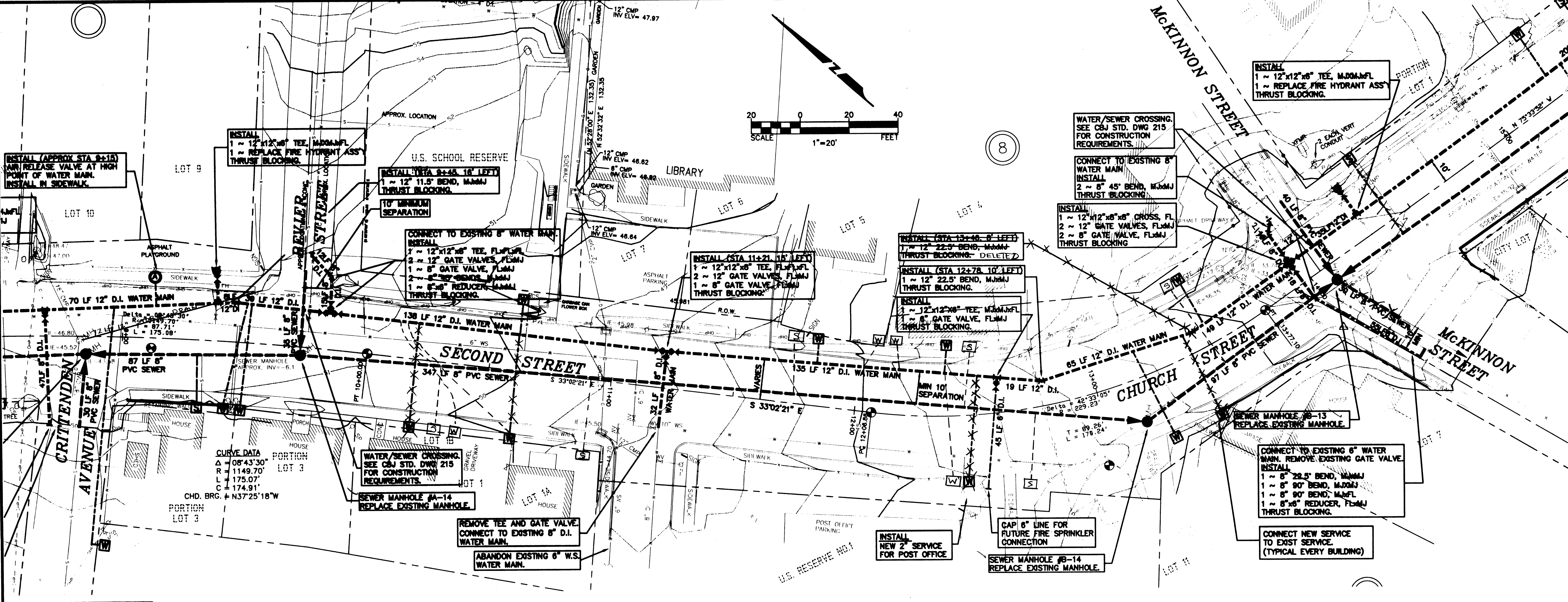
805 DUPONT STREET
BELLINGHAM, WA 98225
(360) 733-6100
FAX: (360) 647-9061



DESIGNED BY:
WAH
DRAWN BY:
WAH
CHECKED BY:
MK

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
WATER & SEWER PLAN & PROFILE

DATE SEPT 2000	SHEET W01
SCALE AS SHOWN	OF
JOB NUMBER 99096	27



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(360) 733-6100
FAX: (360) 647-9061

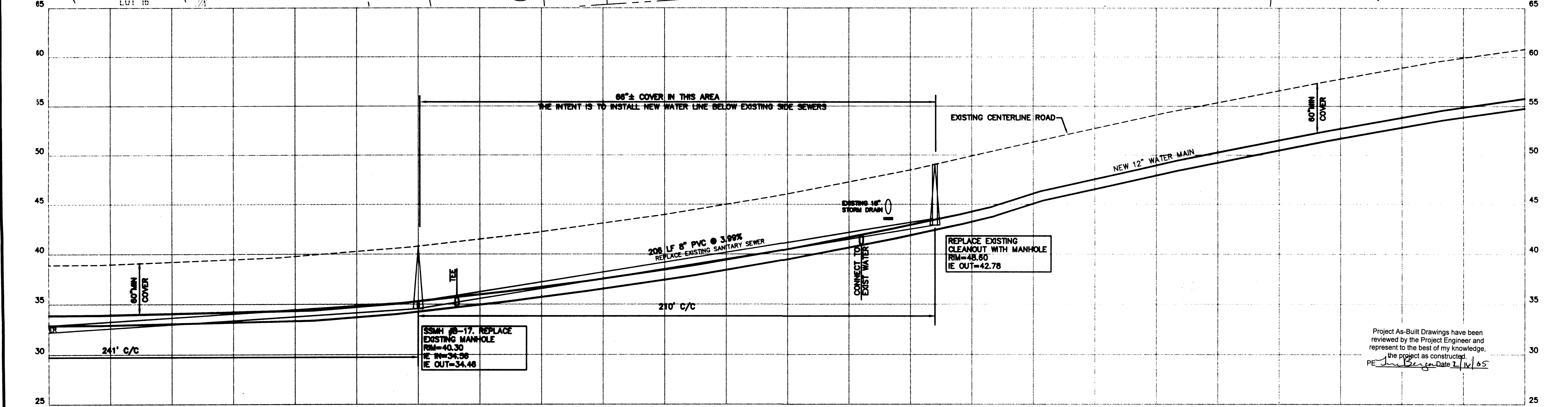
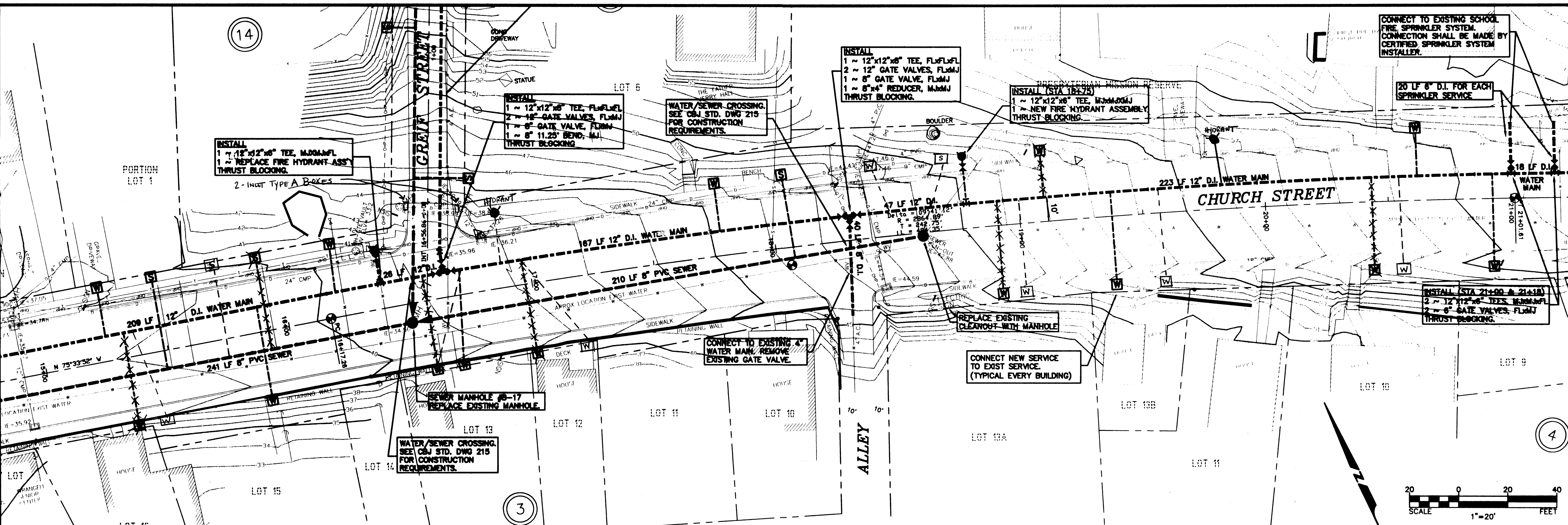
DESIGNED BY:
WAH

DRAWN BY:
WAH

CHECKED BY:
AMC

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
WATER & SEWER PLAN & PROFILE

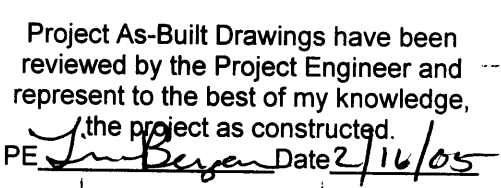
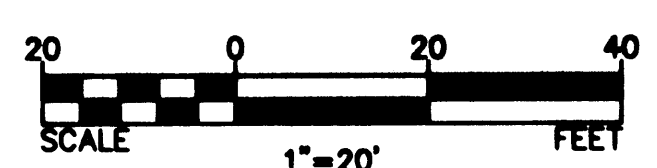
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SCALE AS SHOWN	OF
JOB NUMBER 99096	27

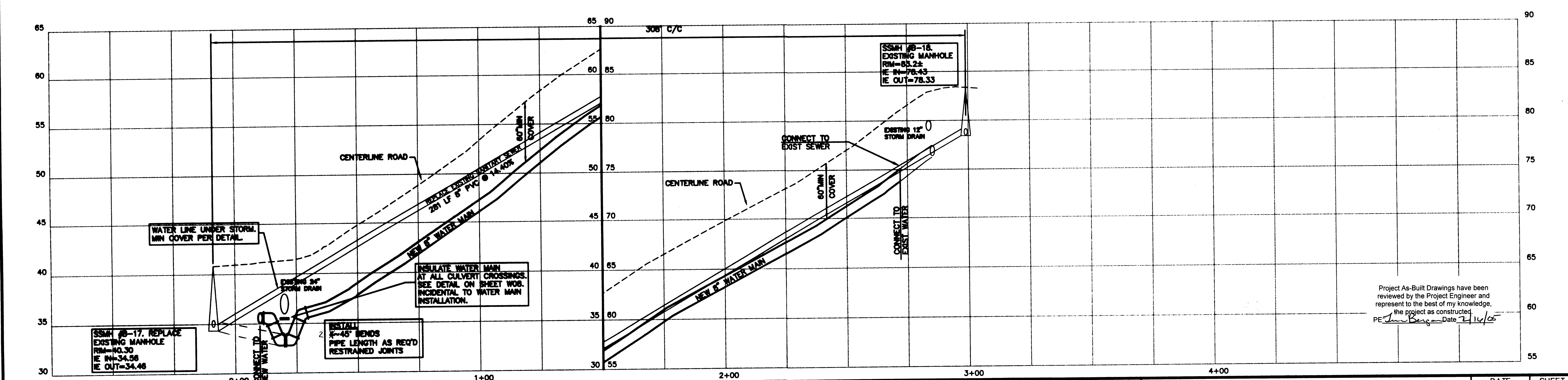
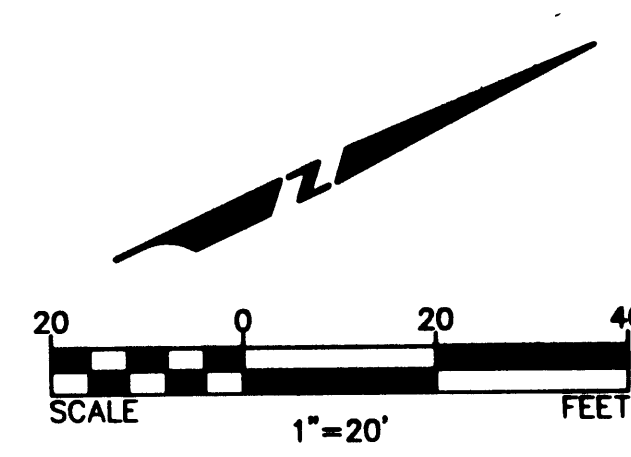
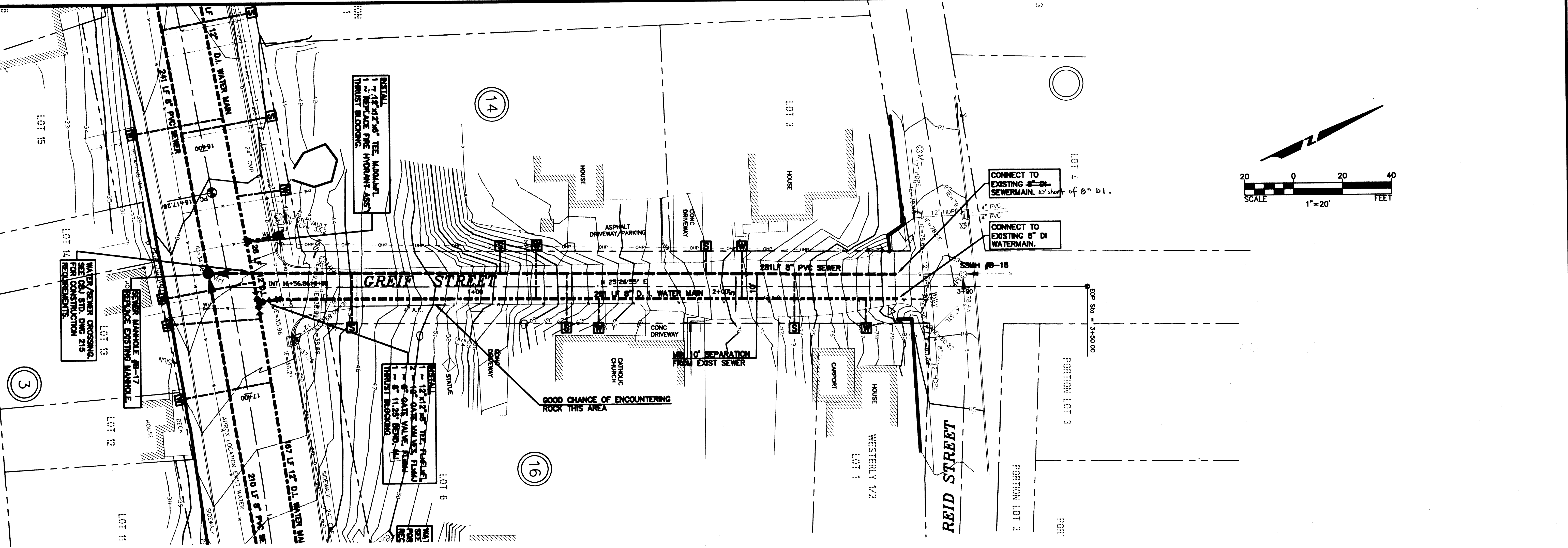


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *John Berger* Date 7/14/05

Wilson Engineering CONSULTING ENGINEERS & SURVEYORS				805 DUPONT STREET BELLINGHAM, WA 98225 (360) 733-6100 FAX: (360) 647-9061				DESIGNED BY: WAH DRAWN BY: WAH CHECKED BY: MPC		CITY OF WRANGELL WRANGELL ISLAND ALASKA WRG - CHURCH STREET RECONSTRUCTION WATER & SEWER PLAN & PROFILE		DATE SEPT 2000 SCALE AS SHOWN JOB NUMBER 99096		SHEET W03 OF 27	
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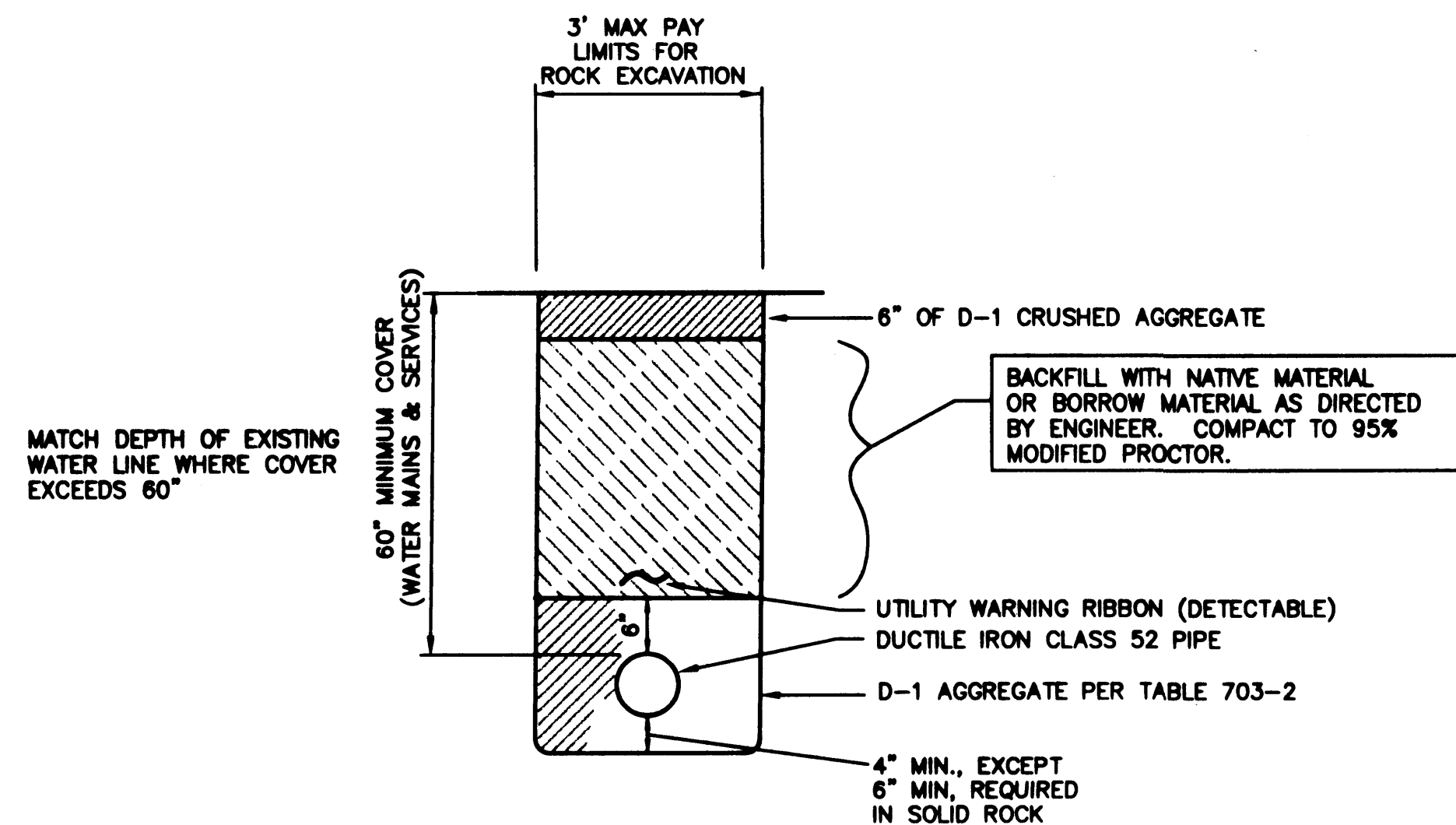
NO.	REVISIONS	BY	DATE



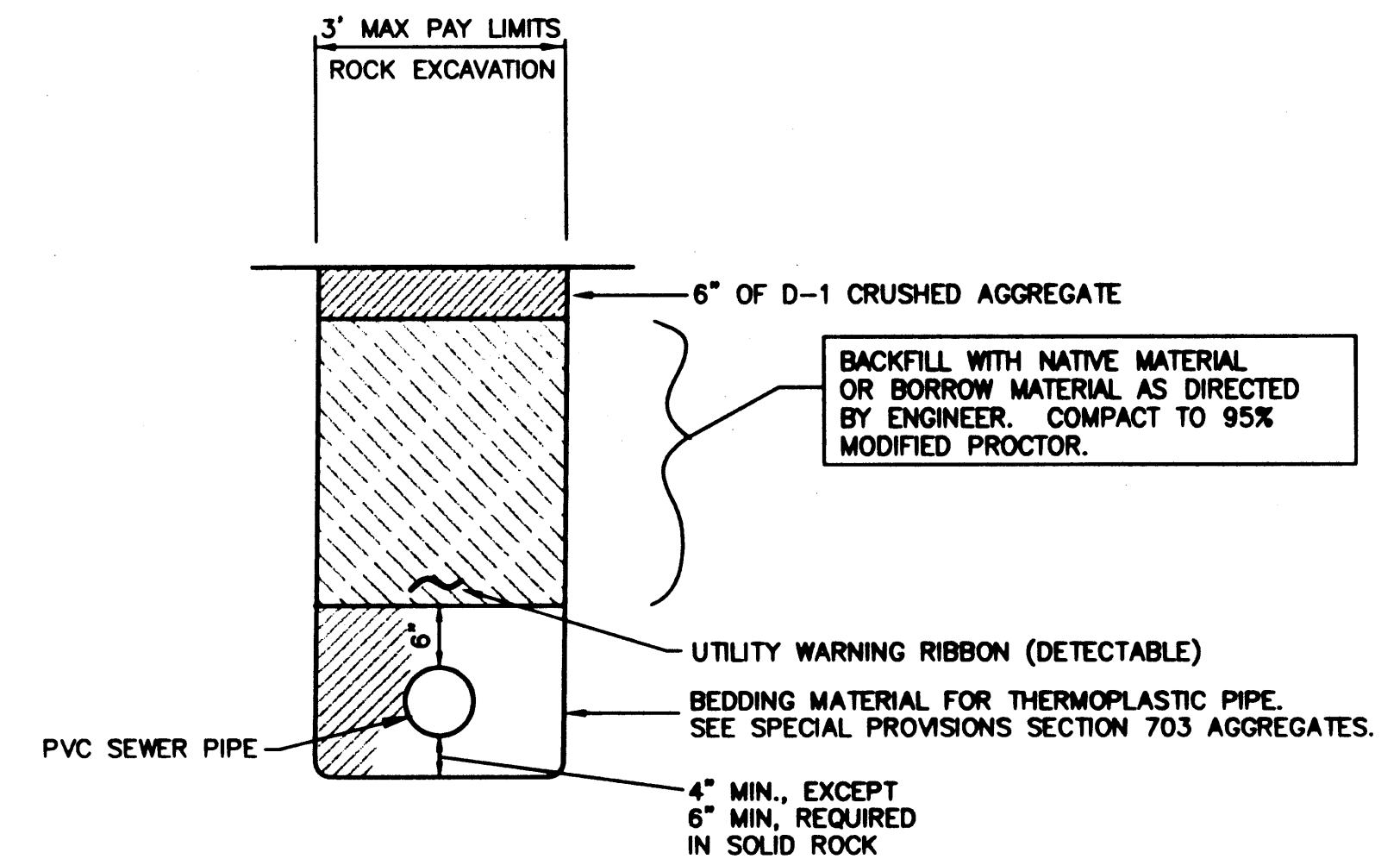


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date *2/14/06*

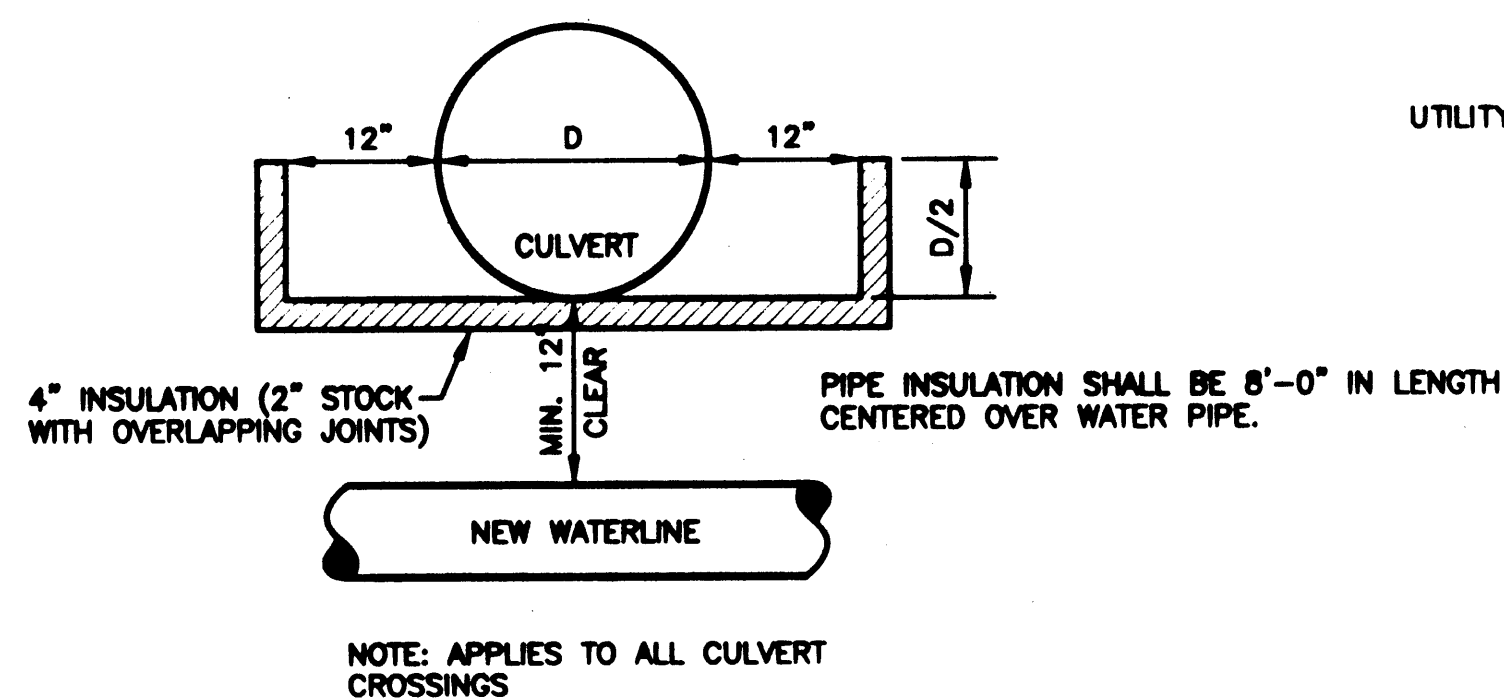
Wilson Engineering CONSULTING ENGINEERS & SURVEYORS			805 DUPONT STREET BELLINGHAM, WA 98225 (360) 733-6100 FAX: (360) 647-9061			DESIGNED BY: WAH	CITY OF WRANGELL WRANGELL ISLAND ALASKA WRG - CHURCH STREET RECONSTRUCTION WATER & SEWER PLAN & PROFILE	DATE SEPT 2000	SHEET W06 OF 27
			DRAWN BY: WAH	SCALE AS SHOWN					
NO. REVISIONS BY DATE						CHECKED BY: <i>[Signature]</i>	JOB NUMBER 99096		



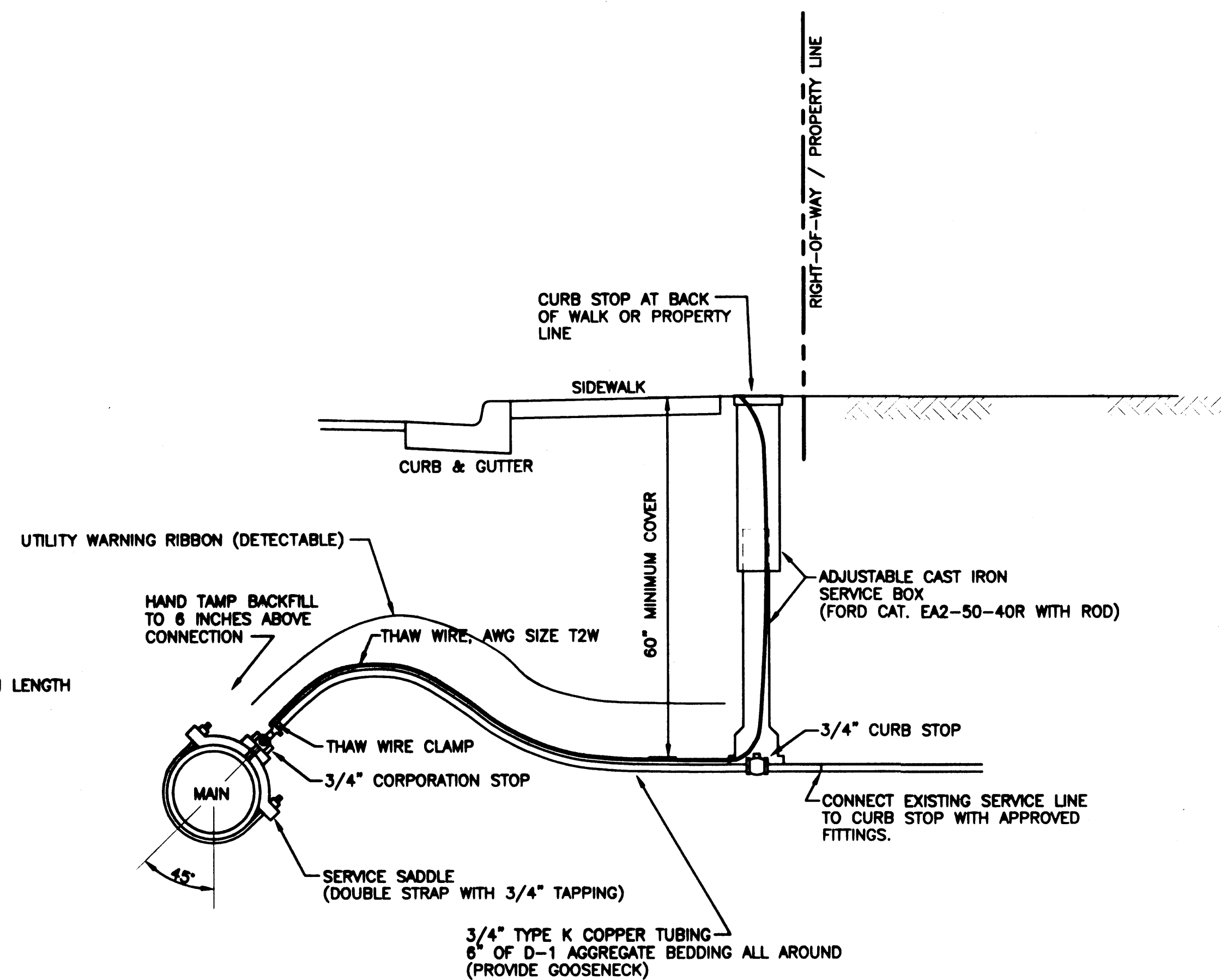
WATER MAIN TRENCH
NOT TO SCALE



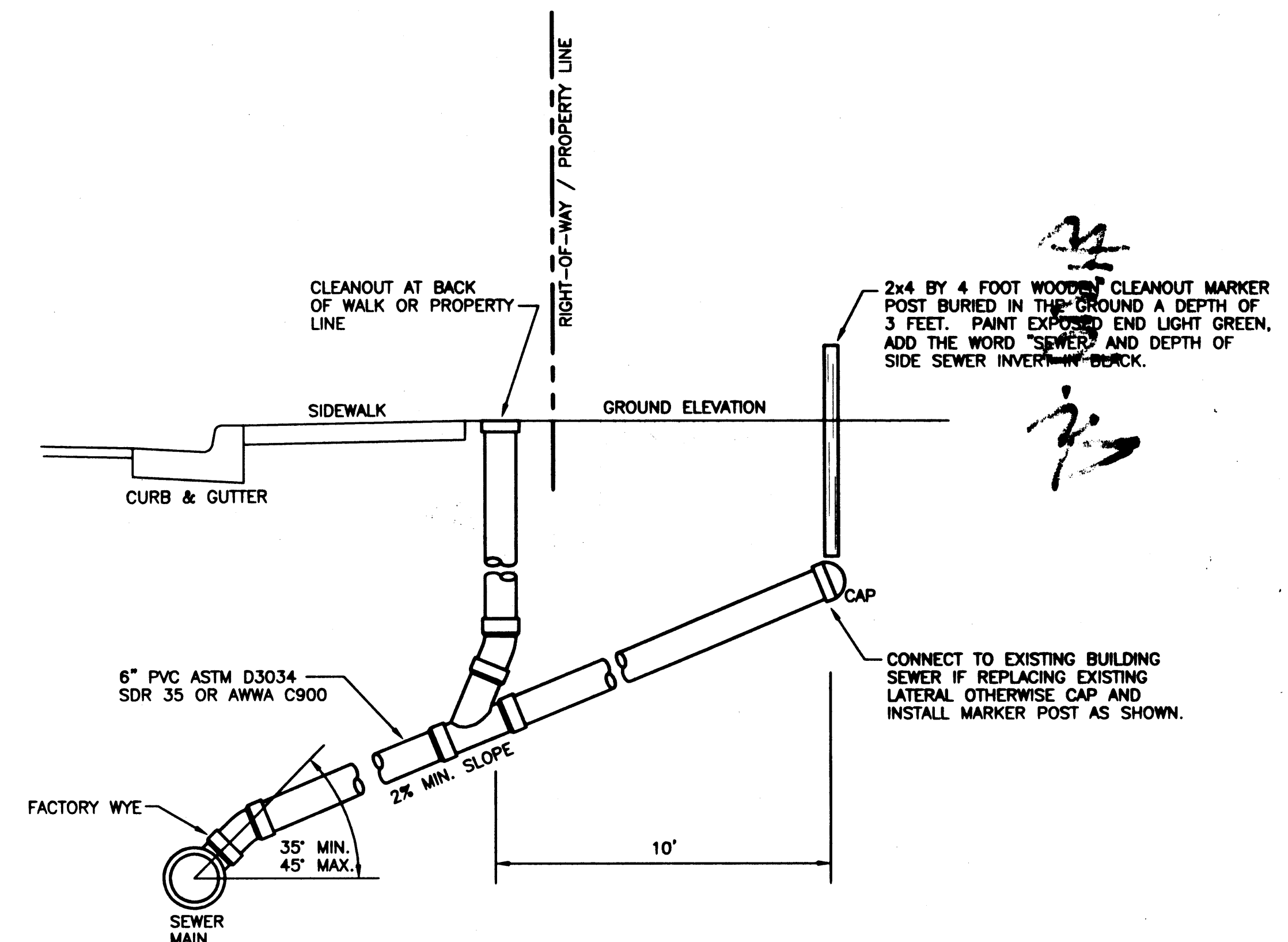
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NOT TO SCALE



CULVERT CROSSING
NOT TO SCALE



WATER SERVICE CONNECTION
NOT TO SCALE



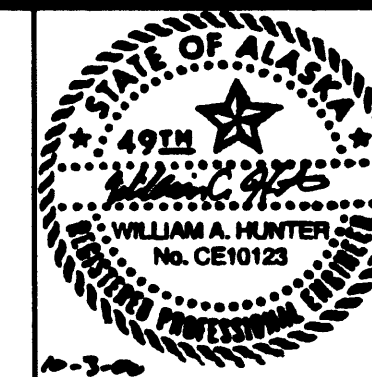
SANITARY SEWER SERVICE LATERAL
NOT TO SCALE

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *James B. Benge* Date *2/16/05*

NO.	REVISIONS	BY	DATE

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DESIGNED BY:
WAH
DRAWN BY:
WAH
CHECKED BY:
MK

CITY OF WRANGELL
WRANGELL ISLAND ALASKA
WRG - CHURCH STREET RECONSTRUCTION
WATER & SEWER DETAILS

DATE
SEPT 2000
SCALE
AS NOTED
JOB NUMBER
99096
SHEET
708
OF
27

Includes WRG\68086 - Church Street Reconstruction