GAS WORK REQUEST

4134038

☐ C ☒ T ☐ V: GREENVILLE

CUST/PROJ NAME: GREENVILLE CAPACITY PROJECT

PROJECT LOCATION: CTH OO/STH 15 FROM BLUEMOUND DR WEST TO MAYFLOWER DR THEN SOUTH

PREPARED BY: CODY BECKMAN

E-MAIL: cody.beckman@we-energies.com

OFFICE #: 920-380-3422 CELL #: 920-428-1038

PROJECT ID: WI4134038 IO #: MEL21300301

CGS #:

TYPE OF WORK:

☐ GDAM MAIN REPLACEMENT ☒ MAIN EXTENSION

☐ PAVING RELOCATION ☐ SERVICE

☐ OTHER

STAKING REQUIREMENTS:

☒ SURVEYOR ☐ STAKED

☐ DESIGNER ☐ NOT NEEDED

MAIN / SERVICE IN EASEMENT:

☐ YES ROW WR#

CORROSION CONTACT: JOHN HOOPER

PHONE #: 414-221-4871

RESTORE PRIVATE PROPERTY: ☒ WE ENERGIES ☐ CUSTOMER

RAILROAD PERMITTING/FLAGGING REQUIRED ☒ **YES** ☐ **NO**

RR NAME CANADIAN NATIONAL

MAIN SIZE, MAT'L, FT	INSTALL METHOD & FOOTAGE
6" STEEL 10,993'	BORE 10932' TRENCH 61'
12" STEEL 20'	TRENCH 20'

RELATED WR's

MAIN RETIREMENT WR NA FOOTAGE NA

SERVICE REPLACEMENT WR NA NO. NA

SERVICE RECONNECT WR 4254604 NO. 2

CRITICAL SAFETY RULES - GO:

1. Confined space procedures
2. Excavation and shoring
3. Live gas emergency procedures
4. Lock out - Tag out
5. Seat belts
6. Securing parked vehicles

JOB INFO:

SECTION / TOWN / RANGE: SE1/4 SEC17, T21N, R17E

SITE VISIT COMPLETED BY: CODY BECKMAN

JOB OWNER: CODY BECKMAN

CONTINGENCIES & COMMENTS:

DIGGERS HOTLINE REQUIRED.

WE ENERGIES WILL RESTORE

WE ENERGIES WILL NOT HAUL SPOIL

CUSTOMER IS REQUIRED TO LOCATE ALL PRIVATE UNDERGROUND FACILITIES PRIOR TO INSTALLATION.

WE ENERGIES IS NOT RESPONSIBLE FOR ROOT DAMAGE

CONSTRUCTION REMARKS:

* ALL PROPOSED 6" HIGH PRESSURE STEEL MAIN IS TO BE INSTALLED AT A MINIMUM OF 4' FROM EXISTING GRADE UNLESS OTHERWISE NOTED IN THE CUT SHEETS LISTED ON SHEETS 17 AND 18. THE 10,932' OF 6" STEEL PIPE IS SPECIAL ORDER.

*CONSTRUCTION OF THE 6" PE IN THE EAST RIGHT OF WAY OF N MAYFLOWER ROAD IS TO BE CONSTRUCTED PRIOR TO THE 6" HIGH PRESSURE STEEL UNDER WORK REQUEST 4370332. CONSTRUCTED BY SEPARATE CONTRACTOR.

*CONSTRUCTION OF THE NEW 6" STEEL MAIN IS TO BE PERFORMED AT THE SAME TIME AS THE REGULATION STATION. CONSTRUCTION SCHEDULING MUST BE COORDINATED BETWEEN THE TWO CONTRACTORS. THE GAS MAIN IS TO BE INSTALLED FROM WEST TO EAST TO CLEAR THE PROPOSED REGULATOR SITE.

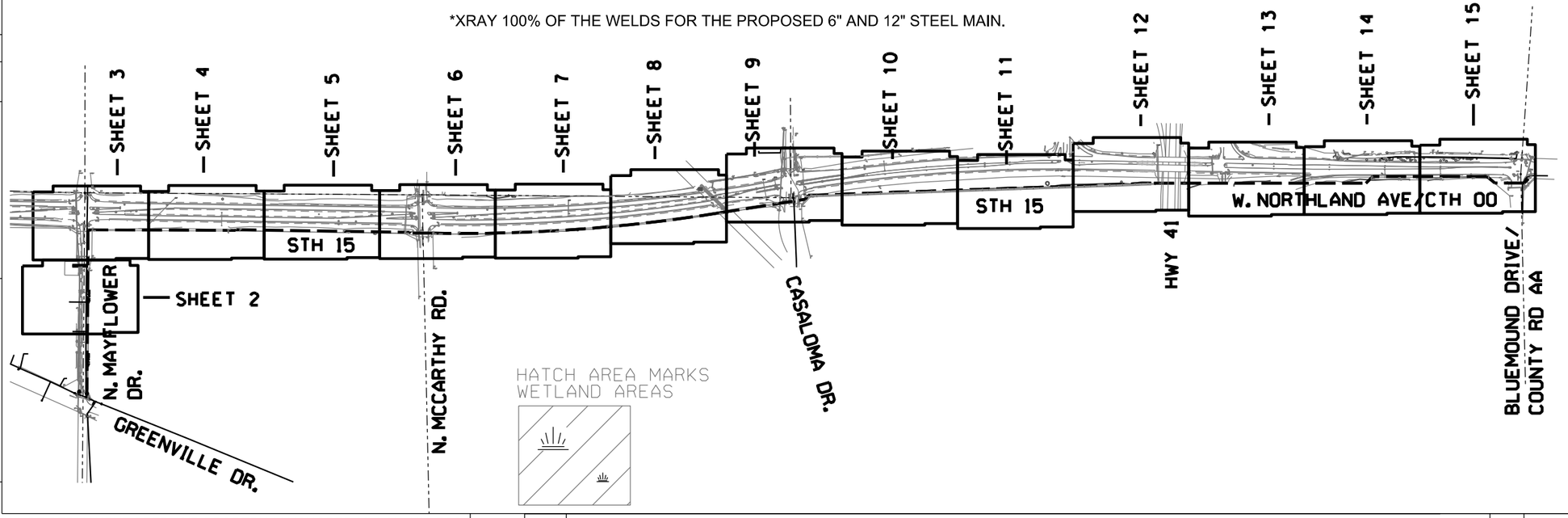
*APPROXIMATE STATION 138+00 TO 140+00 THE LOCATION OF CURVE IN EXISTING RIGHT OF WAY FOR THE OFF RAMP MAY BE INCORRECT. VERIFY THE RIGHT OF WAY PRIOR TO CONSTRUCTION AND STAKE THE TWO 45 DEGREE ELBOW TO INSURE THAT THEY ARE IN ROAD RIGHT OF WAY. THIS MAY CHANGE THE LOCATION OF THE 2 - 45 DEGREE ELBOWS TO AVOID PRIVATE PROPERTY.

*THIS AREA RECTIFIED PROTECTED. CONTACT TODD LENSMEYER AT 920-428-4493 THREE DAYS PRIOR TO THE TIE INS TO TURN OFF RECTIFIER R122 (LOCATED AT E NORTHLAND AVE, EAST TIE IN) AND R115 (LOCATED AT W GREENVILLE/SILVER SPRING DR, WEST TIE IN).

*HOT WRAP OR EPOXY MUST BE USED FOR ALL HP COATING REPAIRS.

*CONTACT TODD LENSMEYER TO PERFORM BORE TESTS ON ALL BORED PIPE.

*XRAY 100% OF THE WELDS FOR THE PROPOSED 6" AND 12" STEEL MAIN.



EROSION CONTROL NOTES

☒ IF DISTURBANCE OCCURS IN SUMMER, FINAL STABILIZATION SHALL BE PERMANENT SEED AND PROPERLY ANCHORED MULCH, UNLESS NOTED. IF DISTURBANCE OCCURS IN WINTER, TEMPORARY STABILIZATION SHALL BE SOIL STABILIZER, TYPE A, UNLESS NOTED. FINAL STABILIZATION IS REQUIRED IN SPRING.

☐ IF DISTURBANCE OCCURS WITHIN THE SLOPE INTERCEPT, FINAL STABILIZATION SHALL BE SOIL STABILIZER, TYPE A, UNLESS NOTED. IF DISTURBANCE OCCURS OUTSIDE THE SLOPE INTERCEPT, FINAL STABILIZATION SHALL BE PERMANENT SEED AND PROPERLY ANCHORED MULCH, UNLESS NOTED.

☐ IF DISTURBANCE OCCURS IN AGRICULTURAL FIELDS, SOIL SEGREGATION WILL NEED TO TAKE PLACE TO RETURN FIELDS TO PRE-CONSTRUCTION SOIL STRATIFICATION AND TO PRE-CONSTRUCTION ELEVATIONS.

☒ DEPENDING ON THE TIME OF YEAR AND WEATHER CONDITIONS, CONSIDER USING PLATES/MATS IN WETLANDS OR CROSSING DITCHES.

☐ STOCKPILE MATERIALS SHALL BE PLACED UPSLOPE FROM EXCAVATION. IF STOCKPILE MATERIALS MUST BE PLACED DOWNSLOPE OF EXCAVATION, PROTECT STOCKPILES WITH 12" WATTLES.

☐ PROJECT SPECIFIC EROSION CONTROL NOTES:

WR 4134038

REV.	DESCRIPTION	BY	DATE
0	DESIGN APPROVED FOR CONSTRUCTION	DF	01/28/19

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GAS WORK REQUEST

4134038

SHEET 3

NOTE: CONNECT THE NEW TRACER WIRE DIRECTLY TO THE EXISTING 4" MAIN. NO ANODE REQUIRED

ITEM NO.	DESCRIPTION
1	ELL 6" 90 DEGREE L.R. Y-52 WT WELD
2	CAP, 6" Y52 STD. WT. WELD

150' x 75 ' Ingress/Egress

150' x 40 ' Ingress/Egress

150'

150'

75'

ENV 8, 27

2

PROPOSED 6" ST X52 BORE 225'

SEE WR 4134038

SEE WR 4370332

40'

15'

5'

10'

5'

10'

PROPOSED 6" PE 225'

CAUTION

20' R

30+00

08-00269

PROPOSED 6" ST X52 BORE 294'

BORING

1

ENV 8, 27

CAUTION

20' R

IPIP

29+00

3'

PROPOSED 6" PE 900'

4" ST 50D 64 8946-63

2 WAY FEED

76-01901

ANC

28+00

N. MAYFLOWER DR.

27+00

26+00

4" ST 50D 64 8946-63

2 WAY FEED

PROPOSED 6" PE 881'

3'

3'

NOTE:
REGULATOR GROUP IS TO ISOLATE THE DISTRIBUTION PIPE FROM THE HIGH PRESSURE PIPE. THE REGULATOR GROUP WILL ALSO SUPPLY THE 6" STEEL VALVE AT THE WEST END OF THE HIGH PRESSURE PIPE. THIS VALVE IS TO BE INSTALLED PRIOR TO THE PRESSURE TEST AND WILL BE USED FOR THE TIE IN TO THE NEW REGULATOR.

N1245

CLIMASTORE LLC

1213 - 1

1213 - 2

R/W

FIBER

PL

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SCALE 1" = 50 '

SHEET 2 OF 30

GAS WORK REQUEST

4134038

N

R/W

POST

IP

ANC

VLV

MH

STH 15

N. MAYFLOWER DR.

44+00

45+00

46+00

47+00

48+00

49+00

50+00

51+00

52+00

35+00

34+00

33+00

32+00

31+00

4" ST 50D 64 8946-63

2 WAY FEED

FIBER

08-00268

###

ENV

8, 27

BORING

PROPOSED 6" ST X52 BORE 1058'

WATER WAY

PROPOSED 6" ST X52 BORE 294'

25'

11'

5'

STORM

NOTE:
TEST POINT NUMBER 203824
NO ANODE REQUIRED.

ITEM NO.	DESCRIPTION
1	ELL 6" 90 DEGREE L.R. Y-52 WT WELD
2	POST 78", TEST POINT TYPE 1 #203824

SHEET 4

SHEET 2

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SCALE 1" = 50 '

GAS WORK REQUEST

4134038

N

WATER WAY

R/W

R/W

R/W

CMP

STH 15

STH 15

STH 15

STH 15

53+00

54+00

55+00

56+00

57+00

58+00

59+00

60+00

FIBER

FIBER

FIBER

FIBER

PROPOSED 6" ST X52 BORE 1058'

PROPOSED 6" ST X52 BORE 1058'

PROPOSED 6" ST BORE 1249'

R/W

R/W

R/W

ENV
8, 27

BORING

MH

PUSH

5'

5'

10'

1

2

PROPOSED 6" ST TRENCH X52 8'

ITEM NO.	DESCRIPTION
1	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
2	ELL 6" 45 DEGREE L.R. Y-52 WT WELD

SHEET 3

SHEET 5

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SCALE 1" = 50 '

SHEET 4 OF 30

GAS WORK REQUEST

4134038

N

R/W POST R/W POST R/W

STH 15

STH 15

61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00

STH 15

STH 15

ENV 8, 27

ENV 8, 27

PROPOSED 6" ST BORE 1249'

PROPOSED 6" ST BORE 1249'

FIBER R/W FIBER R/W FIBER IP POST FIBER R/W

10'

10'

SHEET 4

SHEET 6

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SCALE 1" = 50 '

SHEET 5 OF 30

GAS WORK REQUEST

4134038

N

N. MCCARTHY RD.

22+00 | 21+00 | 20+00 | 19+00 | 18+00 | 17+00

R/W — GUY — POST — POST — R/W — POST — MH — R/W — R/W

STH 15

69+00 | 70+00 | 71+00 | 72+00 | 73+00 | 74+00 | 75+00 | 76+00 | 77+00

STH 15

STH 15

FIBER — FIBER — FIBER — FIBER — FIBER — FIBER

BORING — BORING — BORING — BORING

ENV 8, 27 — ENV 8, 27

CAUTION — CAUTION — CAUTION

PROPOSED 6" ST X52 BORE 1249'

PROPOSED 6" ST X52 BORE 160'

PROPOSED 6" ST X52 BORE 2016'

PROPOSED 6" ST X52 TRENCH 10'

10' — 6' — 6'

CAUTION NOTE: NO ANODE REQUIRED FOR LOCATE POINTS.

ITEM NO.	DESCRIPTION
1	POST, ROUND GAS PIPE MARKER 78"
2	POST, ROUND GAS PIPE MARKER 78"
3	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
4	ELL 6" 45 DEGREE L.R. Y-52 WT WELD

SHEET 5

SHEET 7

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SCALE 1" = 50 '

GAS WORK REQUEST

4134038

N

WATER WAY

R/W

POST

R/W

R/W

POST

MP

STH 15

78+00

79+00

80+00

81+00

82+00

83+00

84+00

85+00

STH 15

STH 15

SHEET 8

ENV ### 8, 27 ###

ENV ### 8, 27 ###

PROPOSED 6" ST X52 BORE 2016'

FIBER

IP

R/W

POST

FIBER

PROPOSED 6" ST X52 BORE 2016'

FIBER

IP

R/W

92

92

WATER WAY

WATER WAY

SHEET 6

HOWARD IMMEL, INC.

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SCALE 1" = 50 '

SHEET 7 OF 30

GAS WORK REQUEST

4134038

N

R/W

R/W

R/W

R/W

R/W

R/W

R/W

R/W

STH 15

STH 15

STH 15

STH 15

86+00

87+00

88+00

89+00

90+00

91+00

92+00

93+00

SHEET 7

SHEET 9

VLV

VLV

CUV

POST

ENV
8, 27

ENV
8, 27 - ###

SIGN

PROPOSED 6" ST X52 BORE 2016'

FIBER

FIBER

FIBER

PROPOSED 6" ST X52 BORE 2016'

PROPOSED 6" ST
X52 198' RR BORE

SIDE CULVERTS

POST

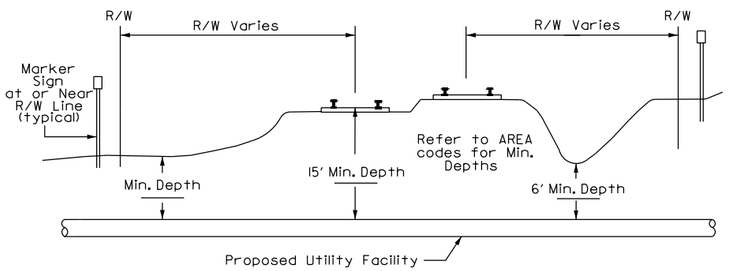
6'

6'

ITEM NO.	DESCRIPTION
1	POST, ROUND GAS PIPE MARKER 78"

CAUTION NOTE: NO ANODE REQUIRED FOR LOCATE POINTS.

Typical Cross Section
Utility Crossing (Uncased) Under Railway



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SCALE 1" = 50 '

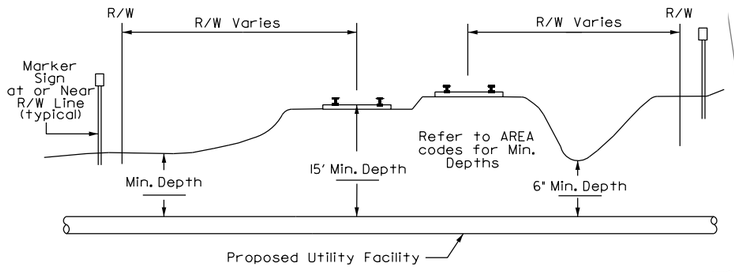
SHEET 8 OF 30

GAS WORK REQUEST

4134038

ITEM NO.	DESCRIPTION
1	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
2	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
3	POST, ROUND GAS PIPE MARKER 78"
4	FLUSH, TEST POINT TYPE 1 #203823
5	POST, ROUND GAS PIPE MARKER 78"

Typical Cross Section
Utility Crossing (Uncased) Under Railway



CAR WASH

CASALOMA DR.

21+00

20+00

19+00

17+00

98+00

97+00

96+00

95+00

99+00

100+00

101+00

102+00

STH 15

4" ST 50D 66 8066-37

2 WAY FEED

4" PE 50D 80 6004-21

2 WAY FEED

PROPOSED 6" ST X52 BORE 250'

PROPOSED 6" ST X52 BORE 235'

PROPOSED 6" ST X52 BORE 2398'

PROPOSED 6" ST X52 TRENCH 35'

ENV 8, 27

FIBER

R/W

IP POST

MH

GUY

MP

STORM

WV

CAUTION

NOTE:
NO ANODE REQUIRED
FOR LOCATE POINTS.

NOTE:
TEST POINT NUMBER 203823
NO ANODE REQUIRED.

3'

7'

12'

15'

SHEET 8

SHEET 10

N

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SCALE 1" = 50 '

SHEET 9 OF 30

GAS WORK REQUEST

4134038

N

POST

R/W

IP

POST

R/W

POST

SIGN

STH 15

103+00

104+00

105+00

106+00

107+00

108+00

109+00

110+00

STH 15

SIGN

STH 15

SIGN

FIBER

FIBER

FIBER

FIBER

MH

POST

ENV
8, 27

SIGN

PROPOSED 6" ST X52 BORE 2398'

R/W

12'

ENV
8, 27

PROPOSED 6" ST X52 BORE 2398'

R/W

12'

SHEET 9

SHEET 11

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SCALE 1" = 50 '

GAS WORK REQUEST

4134038

N

STH 15

111+00

112+00

113+00

114+00

115+00

116+00

117+00

118+00

119+

SIGN

SIGN

SIGN

STH 15

STH 15

HWY 41 OFF RAMP WB

MH

ANT

FIBER

FIBER

FIBER

MH

POST

FIBER

ENV

8, 27

PROPOSED 6" ST X52 BORE 2398'

PROPOSED 6" ST X52 BORE 2398'

R/W

R/W

12'

12'

SHEET 10

SHEET 12

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SCALE 1" = 50 '

SHEET 11 OF 30

GAS WORK REQUEST

4134038

HWY 41 ON RAMP S WB

ANT

SIGN

STH 15

HWY 41

CMP

MH

00 120+00 121+00 122+00 123+00 124+00 125+00 126+00 127+00

MWEL

STH 15

STH 15

STH 15

SIGN

CAUTION **NOTE: NO ANODE REQUIRED FOR LOCATE POINTS.**

FIBER FIBER FIBER FIBER

ENV 8, 27

ENV 8, 27

ENV 8, 27

PROPOSED 6" ST X52 BORE 2398'

PROPOSED 6" ST X52 BORE 1519'

R/W

R/W

R/W

12'

13'

STORM

STORM

HWY 41

ITEM NO.	DESCRIPTION
1	POST, ROUND GAS PIPE MARKER 78"
2	POST, ROUND GAS PIPE MARKER 78"

SHEET 11

SHEET 13

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SCALE 1" = 50 '

SHEET 12 OF 30

GAS WORK REQUEST

4134038

N

HWY 41 ON RAMP WB

ANT

SIGN

128+00 129+00 130+00 131+00 132+00 133+00 134+00 135+00

W. NORTHLAND AVE/COUNTY RD. OO/STH 15

CAUTION **NOTE: NO ANODE REQUIRED FOR LOCATE POINTS.**

FIBER

MH

POST

HWY 41 OFF RAMP WB

HWY 41 OFF RAMP EB

PROPOSED 6" ST X52 BORE 1519'

###
###
ENV
8, 27

BORE PIT

ITEM NO.	DESCRIPTION
1	POST, ROUND GAS PIPE MARKER 78"

SHEET 12

SHEET 14

GAS WORK REQUEST

4134038

N

POST
W
GUY
MH
IP
IP
GUY
POST
POST
POST
POST
NORTHLAND COURT
2" PE 50D
03 803300
2" PE 50D 82 6204-16
1 WAY FEED
W
MP
SIGN
DUPLICATE FLOWLINE
SIGN
136+00
137+00
138+00
139+00
140+00
141+00
142+00
143+00
144
W. NORTHLAND AVE/COUNTY RD. 00/STH 15

N
HWY 41 OFF RAMP EB
FIBER
CAUTION
1
ENV
8, 27
# # #
# # #
FIBER
FIBER
CB
C
PROPOSED 6" ST X52 BORE 923'
IP
STORM
R/W
IP
POST
POST
FIBER
FIBER
2
PROPOSED 6" ST X52 BORE 1519'
PROPOSED 6" ST X52 TRENCH 70'
3
R/W
ENV
8, 27
9'
25'
ENV
8, 27

CAUTION **NOTE: NO ANODE REQUIRED FOR LOCATE POINTS.**

ITEM NO.	DESCRIPTION
1	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
2	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
3	POST, ROUND GAS PIPE MARKER 78"

SHEET 13

SHEET 15

R/W

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SCALE 1" = 50 '

GAS WORK REQUEST

4134038

N

NORTHLAND COURT

2" PE 50D 82 6204-16
1 WAY FEED

2" PE 50D 82 6204-16

2" PE 50D 88 8804-1
1 WAY FEED

145+00 146+00 147+00 148+00 149+00 150+00 151+00 152+00

W. NORTHLAND AVE/COUNTY RD. OO

21+42.15 21+00 20+00 19+00 18+00 17+10.38

BLUEMOUND DRIVE/COUNTY RD AA

12" ST X42 250S 89 8919-
2 WAY FEED

PROPOSED 6" ST X 52 BORE 923'

PROPOSED 6" ST X52 TRENCH 74'

PROPOSED 6" ST X52
213' ROAD BORE

PROPOSED 6"
ST X52 TRENCH 31'

SEE DETAIL
THIS PAGE

ENV
8, 27

CAUTION

NOTE:
NO ANODE REQUIRED
FOR LOCATE POINTS.

CONTROL POINT NOTE:
*** NO ANODE REQUIRED.**
LABEL ALL WIRES BUT DO NOT BOND.
CONTROL POINT REQUIRES AN INSULATOR
CONTROL POINT NUMBER 203822

ITEM NO.	DESCRIPTION
1	TEE, 12" x 6" REDUCING OUTLET
2	TEE, 12" x 6" REDUCING OUTLET
3	VALVE, 12" BALL ANSI 300 V85395
4	VALVE 6" BALL ANSI 300 V85396
5	VALVE 6" BALL ANSI 300 V85397
6	ELL 6" 90 DEGREE L.R. Y-52 WT WELD
7	TEE, 6" STD Y-52 WELD
8	POST, ROUND GAS PIPE MARKER 78"
9	POST, ROUND GAS PIPE MARKER 78"
10	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
11	ELL 6" 45 DEGREE L.R. Y-52 WT WELD
12	FLUSH, CONTROL PT TYPE 5 #203822
13	INSULATOR, 6" ANSI 300 WELD
14	ELL 6" 45 DEGREE L.R. Y-52 WT WELD

PROPOSED 6" VALVE DETAIL

V85395 V85396 V85397

SHEET 14

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SCALE 1" = 50 '

SHEET 15 OF 30

GAS WORK REQUEST

4134038

N

N MAYFLOWER DRIVE CROSSING 6" ST - 175' STATION 29+77 SHEET 2

STATION	29+77	29+77	29+77	29+77	29+77	29+77	29+77	29+77
OFFSET	LT 195'	LT 41'	LT 27'	LT 24'	LT 8'	0	RT 19'	RT 30'
TOP OF MAIN ELEVATION	844	844	845	845	846	846	843	842
APPROX DEPTH FROM EXISTING	4'	4'	4'	4'	4'	4'	4'	4'
LOCATION	P-CAP	E-FIBER	E-FIBER	E-CLVRT	E-SAN		E-GAS	P-ELL
NOTES	WEST						UNDER	EAST
	END							END

N MCCARTHY ROAD CROSSING 6" ST - 160' STATION 18+64 SHEET 6

STATION	18+64	18+64	18+64	18+64	18+64	18+64		
OFFSET	LT 102'	LT 44'	LT 26'	0	RT 25'	RT 58'		
TOP OF MAIN ELEVATION	829	829	830	830	829	826		
APPROX DEPTH FROM EXISTING	4'	4'	4'	4'	4'	4'		
LOCATION	P-ELL	E-CURB	E-SAN		E-CURB	EAST		
NOTES	WEST	WEST			EAST	END		
	END							

CASALOMA DRIVE CROSSING 6" ST - 235' STATION 17+92 CONTINUED SHEET 9

STATION	17+92	17+92						
OFFSET	RT 102'	RT 111'						
TOP OF MAIN ELEVATION	802	802						
APPROX DEPTH FROM EXISTING	4'	4'						
LOCATION	E-FIBER	P-ELL						
NOTES		END						

CASALOMA DRIVE CROSSING 6" ST - 235' STATION 17+92 SHEET 9

STATION	17+92	17+92	17+92	17+92	17+92	17+92	17+92	17+92
OFFSET	LT 124'	LT 83'	LT 30'	LT 7'	0	RT 28'	RT 32'	RT 64'
TOP OF MAIN ELEVATION	804	807	807	808	807	807	807	806
APPROX DEPTH FROM EXISTING	4'	4'	4'	4'	4'	4'	4'	4'
LOCATION	WEST	E-FIBER	E-FIBER	E-SAN	E-ELEC	E-GAS	E-WAT	E-FIBER
NOTES	END							

NORTHBOUND USH 41 OFF RAMP TO WEST STH 15 CROSSING 6" ST - 175' STATION 133+50 TO 135+25 SHEET 13

STATION	129+41	129+60	129+80	130+03				
OFFSET	RT 142'	RT 142'	RT 142'	RT 142'				
TOP OF MAIN ELEVATION	801	801	801	801				
APPROX DEPTH FROM EXISTING	4'	7'	7'	4'				
LOCATION	WEST			EAST				
NOTES	DITCH	SHLDER	SHLDER	DITCH				

NORTHBOUND USH 41 OFF RAMP TO EAST NORTHLAND AVE CROSSING 6" ST - 175' STATION 133+50 TO 135+25 SHEET 14

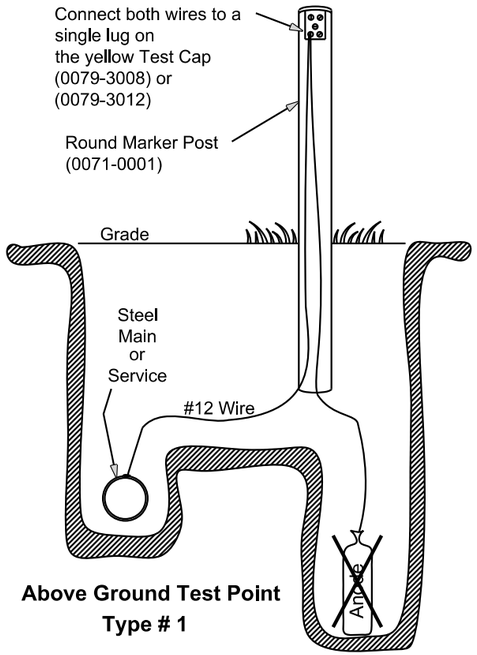
STATION	133+50	134+00	134+50	135+00	135+25			
OFFSET	RT 138.5'	RT 138'	RT 137.5'	RT 139'	RT 139'			
TOP OF MAIN ELEVATION		788	788	788				
APPROX DEPTH FROM EXISTING	4'	5'	5'	5'	4'			
LOCATION	WEST				EAST			
NOTES	SHLDER				DITCH			

BLUEMOUND DR CROSSING 6" ST - 213' STATION 18+91 SHEET 15

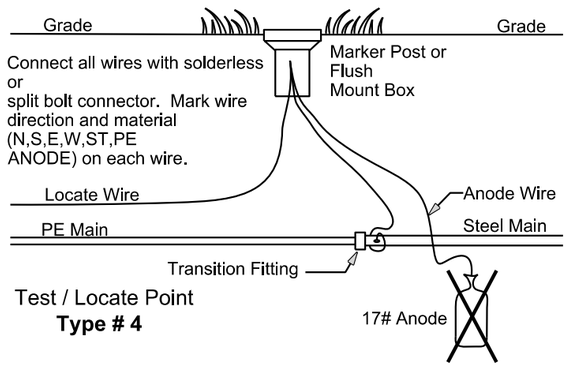
STATION	18+91	18+91	18+91	18+91	18+91			
OFFSET	RT 40'	RT 28'	LT 13'	LT 53'	LT 173'			
TOP OF MAIN ELEVATION	783	783	783	783	784			
APPROX DEPTH FROM EXISTING	5'	5'	5'	5'	4'			
LOCATION	P-ELL	HP GAS	E-SAN		P-ELL			
NOTES	EAST			WEST				
	BOC			BOC				

GAS WORK REQUEST

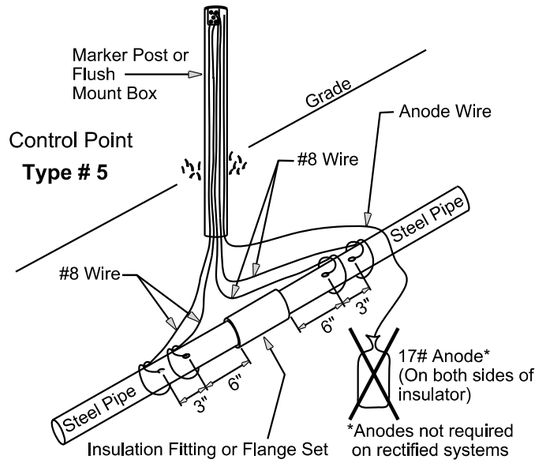
4134038



Above Ground Test Point
Type # 1



Test / Locate Point
Type # 4



NOTE: ANODES ARE NOT REQUIRED FOR LOCATE POINTS ON THIS HIGH PRESSURE MAIN PER CORROSION GROUP

GAS WORK REQUEST

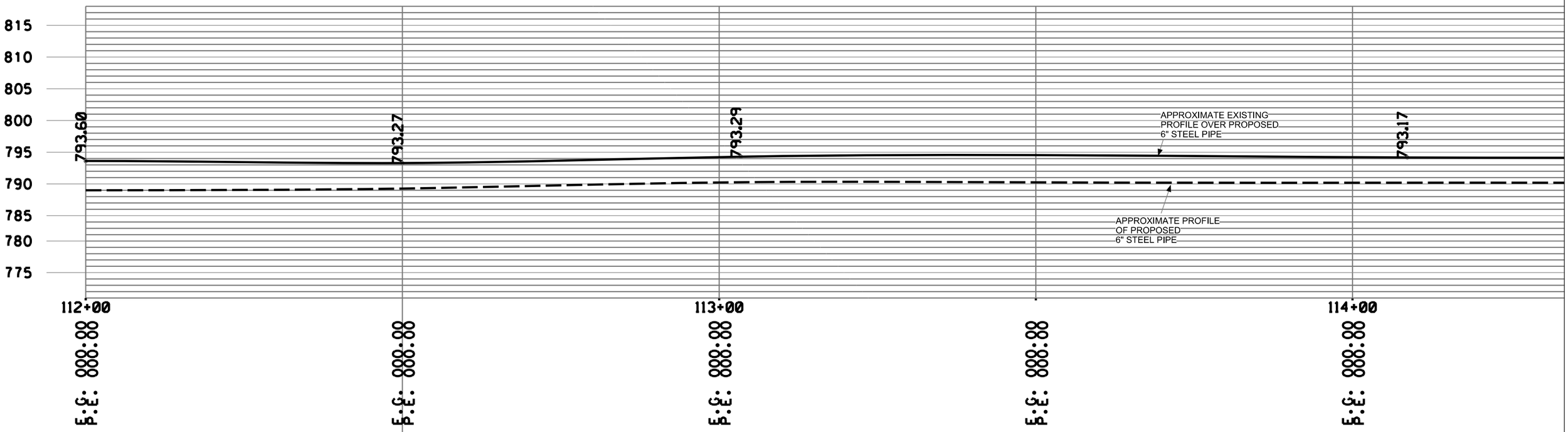
4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

WEST END OF DELINEATED WETLAND APPROXIMATE STATION 113+22

DELINEATED WETLAND



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SCALE 1" = NA '

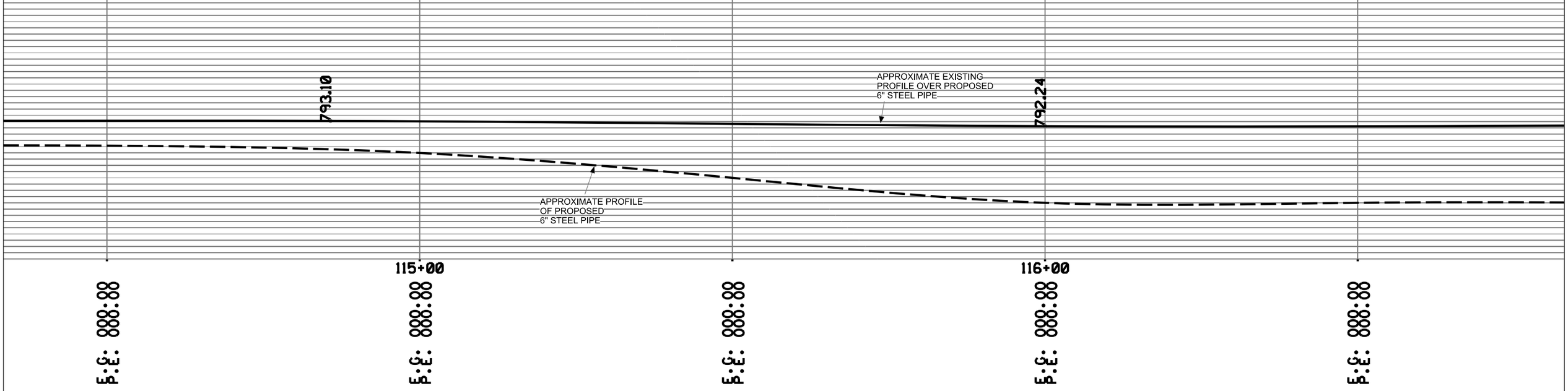
GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

DELINEATED WETLAND



Printed 7/2/2019 3:05:13 PM

SCALE 1" = NA '

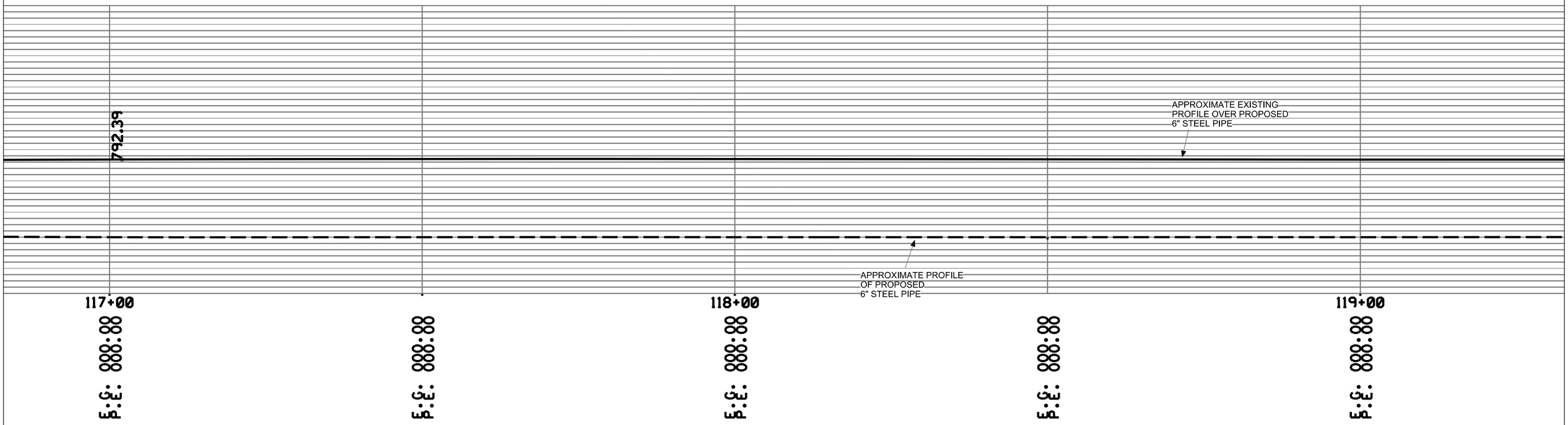
GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

DELINEATED WETLAND



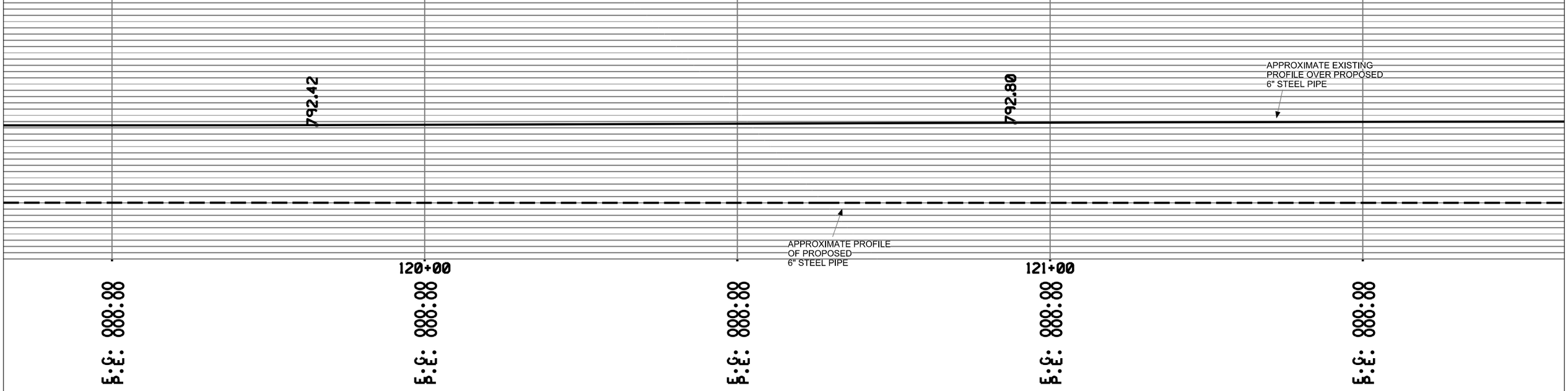
GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

DELINEATED WETLAND



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SCALE 1" = NA '

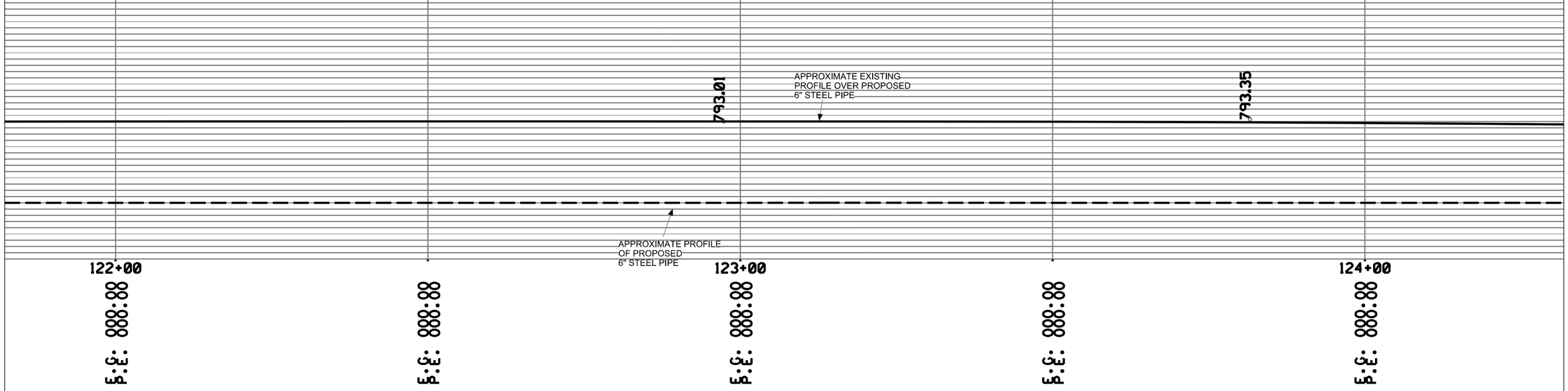
GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

DELINEATED WETLAND



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SCALE 1" = NA '

GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

USH 41 WEST RIGHT OF WAY
APPROXIMATE
STATION 124+48

EAST END OF
DELINEATED WETLAND

USH 41 SB RUNNING LINE
APPROXIMATE
STATION 125+49 RT 145'

USH 41 NB RUNNING LINE
APPROXIMATE
STATION 126+31 RT 145'

DELINEATED WETLAND

792.11

789.19 CULVERT

789.54 CULVERT

795.68

795.73

795.68

793.30 CULVERT

795.57

795.62

795.57

789.64

APPROXIMATE EXISTING
PROFILE OVER PROPOSED
6" STEEL PIPE

APPROXIMATE PROFILE
OF PROPOSED
6" STEEL PIPE

E.O.P. 000+00.00

125+00

E.O.P. 000+00.00

E.O.P. 000+00.00

126+00

E.O.P. 000+00.00

E.O.P. 000+00.00

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SCALE 1" = NA '

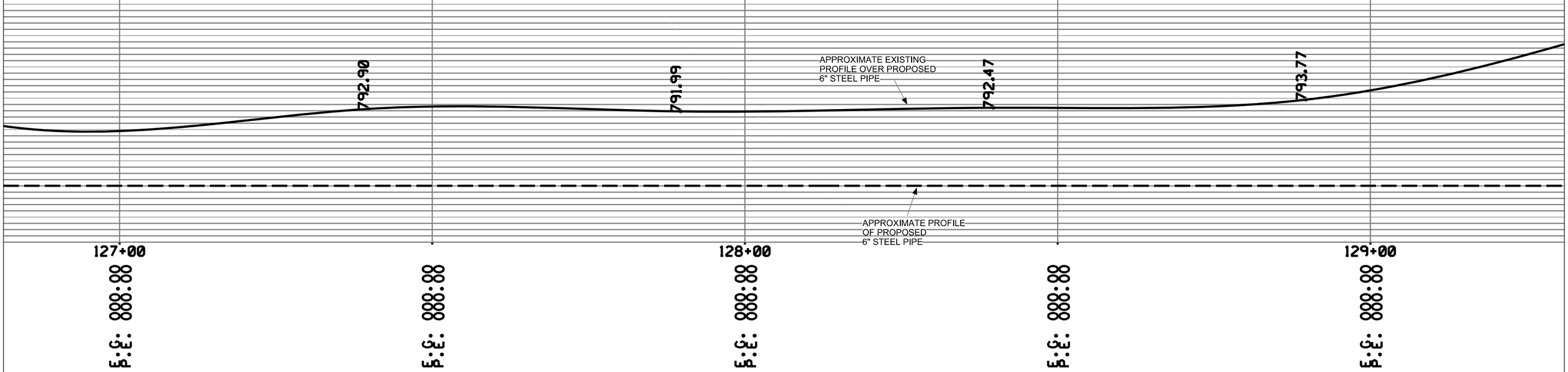
SHEET 23 OF 30

GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE



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SCALE 1" = NA '

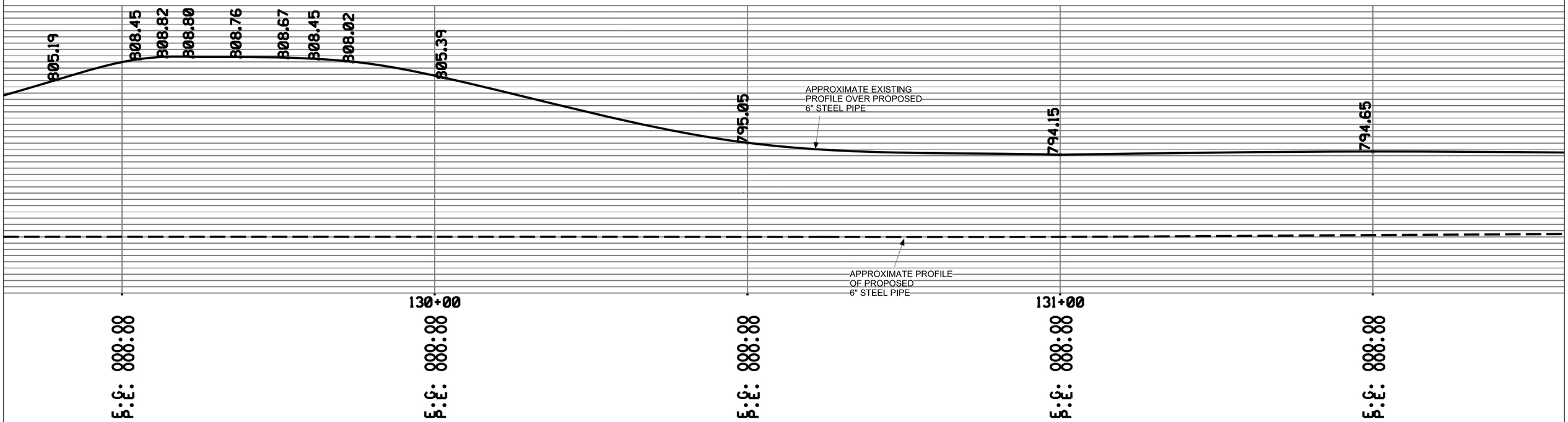
GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

USH 41 NB EXIT RAMP AT C/L
— — APPROXIMATE
STATION 129+69 RT 142'



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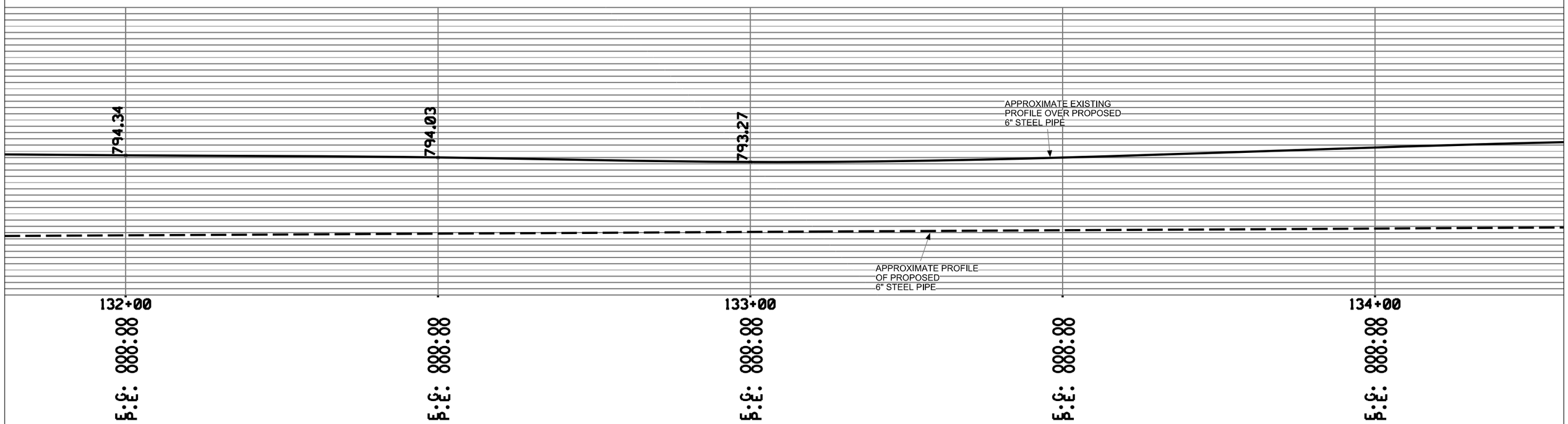
SCALE 1" = NA '

GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE

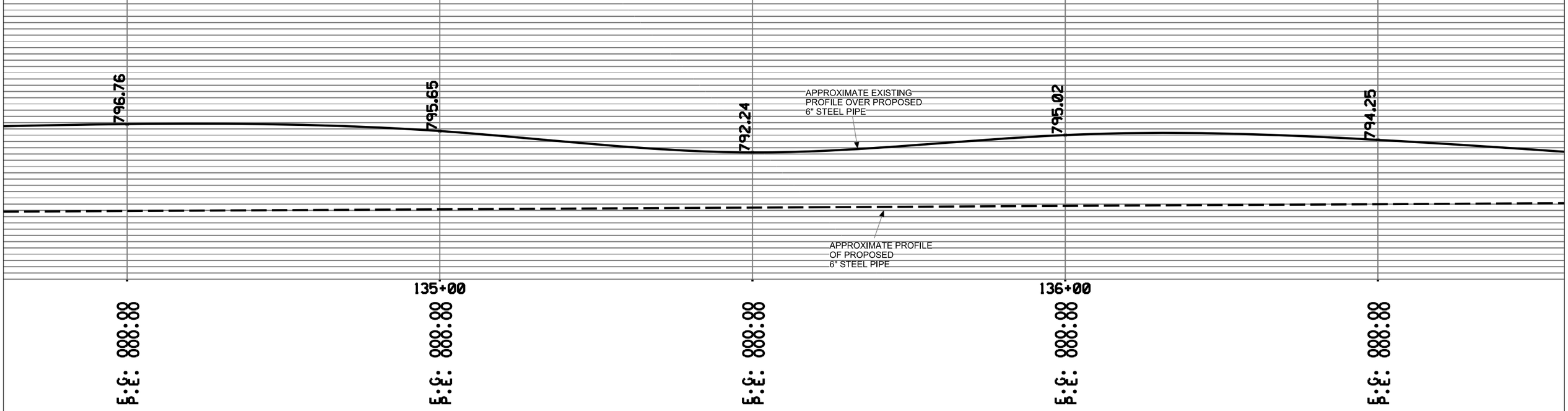


GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE



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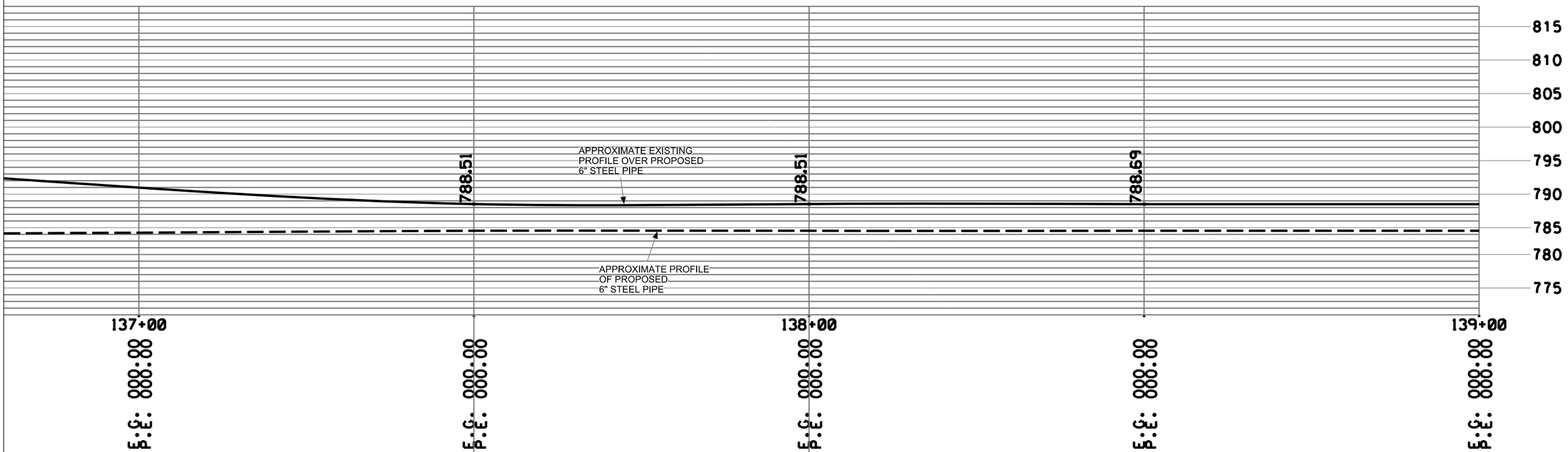
SCALE 1" = NA '

GAS WORK REQUEST

4134038

BORE PROFILE
WEST OF WEST EDGE OF WETLAND
TO EAST OF USH 41 NB OFF RAMP
APPROXIMATELY 2579' OF 6" STEEL

NOT TO SCALE



GAS WORK REQUEST

4134038

RAILROAD PREMIT SHEET

N

WISCONSIN CENTRAL LTD

R/W

STH 15

91+00 92+00 93+00 94+00 95+00 96+00 97+00 98+00

19+00 20+00

4" ST 50D 66 8066-37

VLV

VLV

GUY

POST

IP

MP

MH

ENV
8, 27

55'

6'

7'

3'

PROPOSED 6" ST X52 BORE 2016'

PROPOSED 6" ST X52 BORE 250'

PROPOSED 6" ST X52 198' RR BORE

FIBER

1

4

5

CAUTION

CASALOMA DR.

16+00 17+00 18+00

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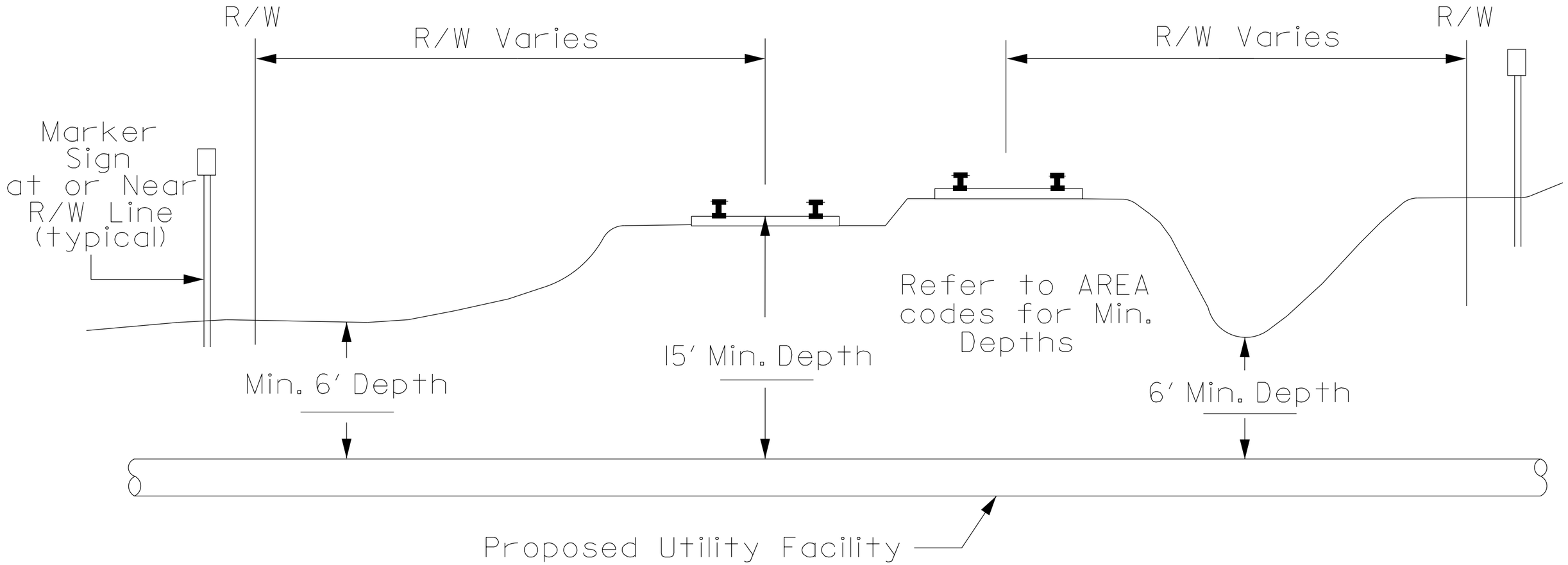
SCALE 1" = NA '

SHEET 29 OF 30

GAS WORK REQUEST

4134038

Typical Cross Section
Utility Crossing (Uncased) Under Railway



WE ENERGIES - GAS OPERATIONS

Unless otherwise noted in this document, the following notes apply:
Existing facilities should be field verified prior to excavation.
Utility information shown are from plans and have not been field verified.
Maintain 12" min vertical clearance at crossing of existing electrical facilities.
Maintain 6" min vertical clearance at crossing of other existing facilities.
Maintain 18" min vertical clearance at crossing of existing storm sewer pipes.
Maintain 5' clearance from storm sewer inlets.
Staking of route or ROW by surveyor required prior to construction.
Clearances shown are min distances - reference permit for specific clearance requirements.
Additional information on excavation, backfilling & clearances can be found in the Gas CRS 201.
Restore all pavement, ROW, sidewalks, and customer's private property.

CONVENTIONAL SYMBOLS

- END OF MAIN CAPPED WITH AN ANODE ATTACHED TO THE TRACER WIRE - 2' x 4' EXCAVATION.
- VALVE IN AN 8" DIAMETER METALLIC BOX SET TO GRADE
- 17# ANODE ATTACHED TO THE MAIN IN THE SAME TRENCH
- GAS MAIN CUT OFF AND CAPPED 4' x 5' EXCAVATION
- MC — METER CHANGE
- T&R — TEST & RECONNECT SERVICE
- RPL — REPLACE SERVICE

EROSION CONTROL LEGEND

- ENV 8, 27 — APPROXIMATE LOCATION FOR UNDERGROUND FACILITY EXCAVATION
- A/B/C/D — INLET PROTECTION, TYPE
- 12" WATTLE or 12"/20" SEDIMENT LOG or 9.5"/20" EROSION EEL
- STONE DITCH CHECK
- ROCK BAG
- MULCH
- SOIL STABILIZER, TYPE A
- EROSION MAT CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS I, TYPE A URBAN
- EROSION MAT CLASS I, TYPE B URBAN
- EROSION MAT CLASS II
- EROSION MAT CLASS III
- VEGETATIVE BUFFER
- TRACKING PAD
- TIMBER MAT
- SILT FENCE
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW

WE ENERGIES WORK REQUEST ENVIRONMENTAL NOTES (Notes 1 through 7 apply to ALL work requests)

General

1. If WDNR and/or USACE permits were obtained for the project, all permit conditions shall be met during construction of the project.

Erosion Control

2. If soil disturbance occurs on slopes or channels/ditches leading to wetlands or waterways, or within wetlands, the disturbed areas shall be stabilized and appropriate erosion control Best Management Practices (BMP's) shall be implemented.
3. Erosion Control BMP's shall meet or exceed the approved WDNR Storm Water Management Technical Standards (http://dnr.wi.gov/topic/stormwater/standards/const_standards.html). Refer to We Energies Construction Site Sediment and Erosion Control Standards.
4. Inspect installed erosion control BMP's at least one time per week and after ½" rain events: repair as necessary.
5. When temporary stabilization is required (e.g. for winter or short-term construction) prior to final restoration, soil stabilizer shall be installed wherever possible. Erosion mat shall be used temporarily only where appropriate, in accordance with state standards, and when approved by the Operations Supervisor.

Contaminated Soils

6. Whenever soil exhibiting obvious signs of contamination (e.g., discoloration, petroleum or solvent odor, free liquids other than water, buried containers or tanks, or other obvious signs of environmental impacts) is encountered during excavation or installation, cease work immediately, take appropriate immediate precautions to ensure worker health and safety, and contact the Operations Supervisor or Inspector.

Spills

7. If an oil spill occurs during construction, call the Environmental Incident Response Team (EIRT) at 414-430-3478:
   a. Any quantity of oil is spilled into surface water;
   b. Any oil spill greater than 50 ppm PCB into a sewer, vegetable garden, or grazing land;
   c. Any oil spill containing greater than 500 ppm PCB;
   d. Five gallons or more of oil spilled to the ground;
   e. Any oil spill involving a police department, fire department, DNR, or concerned property owner.

Notes 8 through 27 apply as noted at specific points within each work request:

Dewatering

8. Dewatering of pits or trenches shall be done in accordance with state standards. Use an approved sediment bag, a straw bale dewatering basin, a combination of both, or equivalent.

Wetlands

9. As much as practicable, the majority of the work shall be staged from the public roadways and road shoulders, keeping equipment out of adjacent wetlands.
10. All work shall be conducted to minimize soil disturbance. No rutting will be allowed within the wetlands.
11. If soils are not frozen or stable to a point that avoids rutting, timber mats, mud tracks, or equivalent shall be utilized to access pole locations.
12. Excavated soils cannot be stockpiled in wetlands.
13. All excess spoils shall be removed from wetlands and placed in a suitable upland location.
14. Trenching and pit excavations within wetlands shall include soil segregation to facilitate restoration of pre-construction soil stratification, and restoration to pre-construction elevations.
15. Poles scheduled to be removed, and that occur within wetland, shall be cut at the ground surface.

Waterways

16. No work can be performed within the banks or below the ordinary high watermark of any navigable waterways/streams.
17. No crossing of navigable waterways with equipment can occur. Foot traffic is allowed.
18. Any disturbed soil within 75-feet of the ordinary high water mark of any navigable waterways/streams shall be stabilized within 24 hours of construction completion.

Threatened and Endangered Speces

19. Threatened or endangered species are known to occur in the work area. It is illegal to harass, harm, or kill a protected species under state and federal regulations. Proper precautions shall be taken to ensure harm to individuals is avoided.
20. In order to protect the threatened or endangered species, work must be conducted between November 5 and March 15.
21. Exclusion fencing must be installed at the work area prior to March 15.
22. A qualified biologist must be present when conducting work at this location.

Invasive Species

23. State regulated invasive species are known to occur in the work area. Reasonable precautions are legally required to prevent the spread of these species. The Wisconsin Council on Forestry Transportation and Utility Right-of Way Best Management Practices should be followed: (http://council.wisconsinforestry.org/invasives/transportation/).

Cultural and Historical Resources, cont.

24. The project is within or adjacent to an area that is identified by the State of Wisconsin as potentially having Native American artifacts, burial mounds or burial sites, which could be encountered during construction.
25. If human bone or any artifacts are discovered during construction, work must cease immediately. Contact the Environmental Department who will contact the State Burial Sites Preservation Office and determine the next steps that must be taken in order to comply with state law. Work at that site MAY NOT PROCEED until the Environmental Department authorizes it.
26. A "qualified archaeologist," as specified under Wis. Stats 157.70 (1) (i) and Wis. Admin. Code HS 2.04 (6), must be present to monitor all ground disturbing activities.

Frac-out Contingency Plan

27. A frac-out contingency plan shall be on-site and implemented accordingly. The contingency plan shall incorporate the following components.
    a. Continuously inspect the bore paths for frac-outs in order to respond quickly and appropriately.
    b. Containment materials (e.g. silt fence, straw bales, sand bags, etc.) shall be on site and available should a frac-out occur.