

CITY OF MYRTLE BEACH, SOUTH CAROLINA

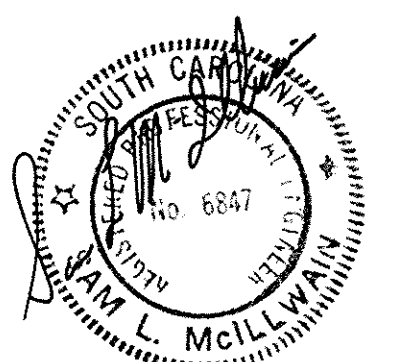
DEPARTMENT OF PUBLIC WORKS

WATER POLLUTION CONTROL FACILITIES

1979

WASTEWATER TREATMENT PLANT EFFLUENT FORCE MAIN

PROJECT NO. C - 450494 - 03



CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS
404 JAMES ROBERTSON PKWY.
NASHVILLE, TENNESSEE

VOLUME II OF
CONTRACT DOCUMENTS

SHEET NO. 1 OF 44 SHEETS

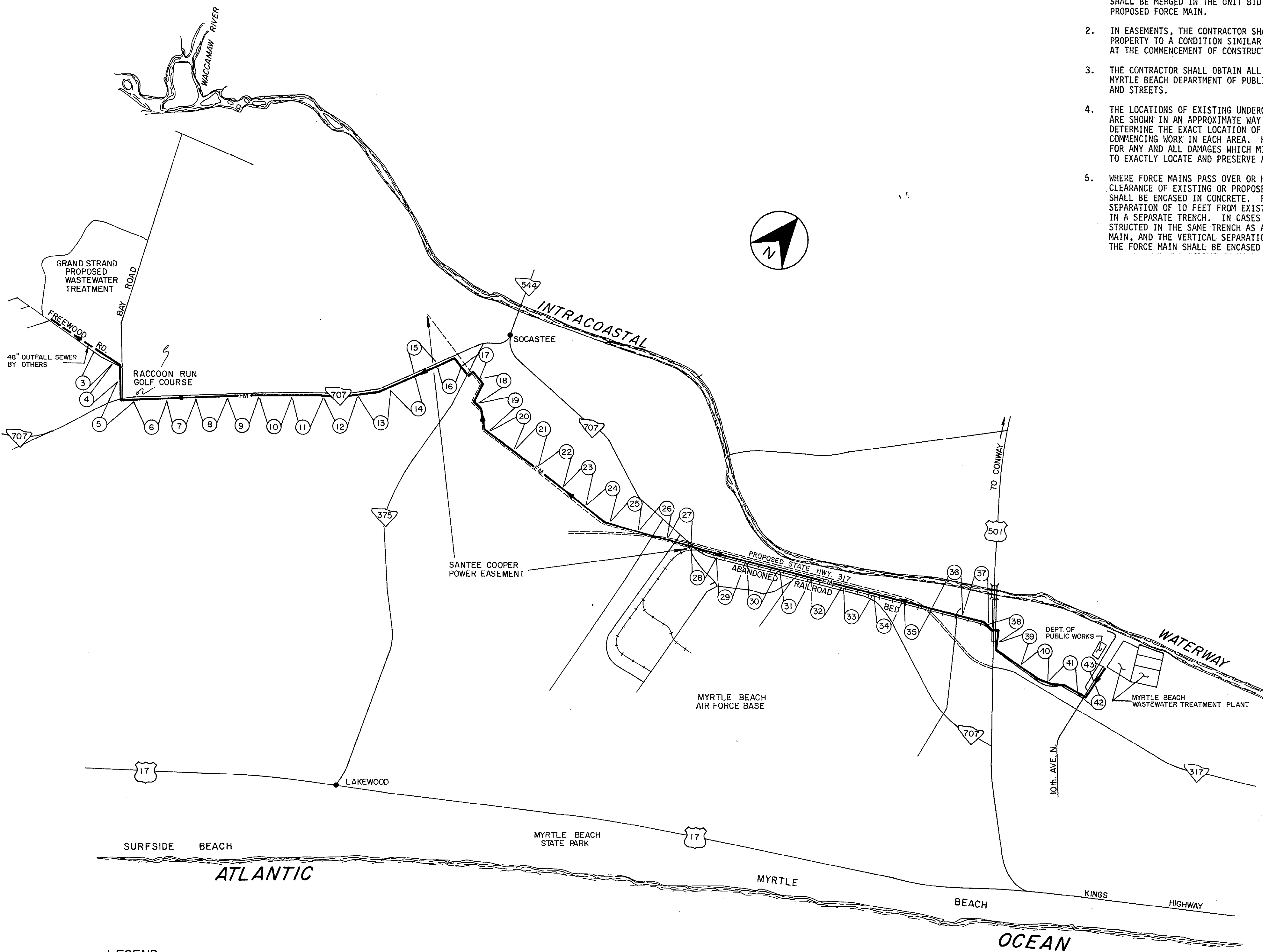
20-204-001/46 78284

LEGEND
FOR PLAN AND PROFILE SHEETS

- PROPOSED BLOW-OFF MANHOLE
- FM— PROPOSED FORCE MAIN
- EXISTING MANHOLE
- ◄— EXISTING SEWER
- FM— EXISTING FORCE MAIN
- === CULVERT PIPE
- TELEPHONE REPAIR BOX
- ⊗ TELEPHONE OR POWER POLE
- ⊗ POLE WITH GUY WIRE
- ⊗ FIRE HYDRANT
- ⊗ WATER VALVE
- ⊗ WATER METER
- ⊗ GAS VALVE
- ⊗ GAS METER
- ⊗ TREE
- H— HEDGE
- X— FENCE
- W— WATER MAIN
- G— GAS MAIN
- T— TELEPHONE CABLE
- — — — — PROPERTY LINE
- PROPERTY IRON
- + STREET OR SIGN POST
- CONCRETE MONUMENT
- ⊗ SHRUB

GENERAL NOTES

- THE CONTRACTOR SHALL RESTORE ALL CULVERTS, FENCES, WALLS, HEDGES, SHRUBS, FLOWERING TREES, FRUIT TREES, SIGNS, LIGHT POSTS, POWER POLES, STREET MARKERS, MAIL BOXES, WATER LINES, GAS LINES, GAS AND WATER METERS AND BOXES INCLUDING SHUTOFFS, PROPERTY CORNER MARKERS, AND LAWNS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITIONS. THE COST OF THIS WORK SHALL BE MERGED IN THE UNIT BID AND CONTRACT PRICES FOR THE PROPOSED FORCE MAIN.
- IN EASEMENTS, THE CONTRACTOR SHALL PROTECT AND RESTORE SAID PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING AT THE COMMENCEMENT OF CONSTRUCTION, EXCEPT AS NOTED.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS FROM THE STATE OR MYRTLE BEACH DEPARTMENT OF PUBLIC WORKS TO CROSS ALL HIGHWAYS AND STREETS.
- THE LOCATIONS OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK IN EACH AREA. HE AGREES TO BE FULL RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
- WHERE FORCE MAINS PASS OVER OR HAVE LESS THAN 18 INCHES VERTICAL CLEARANCE OF EXISTING OR PROPOSED UTILITIES, THE FORCE MAIN SHALL BE ENCASED IN CONCRETE. FORCE MAIN SHALL HAVE A HORIZONTAL SEPARATION OF 10 FEET FROM EXISTING WATER MAIN OR SHALL BE LAID IN A SEPARATE TRENCH. IN CASES WHERE FORCE MAIN MUST BE CONSTRUCTED IN THE SAME TRENCH AS AN EXISTING OR A PROPOSED WATER MAIN, AND THE VERTICAL SEPARATION REQUIREMENT CANNOT BE MET, THE FORCE MAIN SHALL BE ENCASED IN CONCRETE.



LEGEND

FOR SITUATION PLAN

- FM— PROPOSED 36" FORCE MAIN
- ③ SHEET NO.

SUBMITTED

CONSOER, TOWNSEND & ASSOCIATES

BY Sam L. McIlwain
SOUTH CAROLINA CERTIFICATE NO. 6847

DATE 11/7/79

RECOMMENDED FOR APPROVAL

George W. Howard Jr.
DIRECTOR OF PUBLIC WORKS

DATE 1/9/80

APPROVED

John B. Lio
CITY MANAGER

DATE 1-9-80

APPROVED

John B. Lio
MAYOR

DATE 1-9-80

NO.	DATE	DESCRIPTION	APPROVED
REVISIONS			

DESIGNED L.K.B.
DRAWN J.T.Z.
CHECKED S.L.M.
DATE 8-13-79

CONSOER, TOWNSEND & ASSOCIATES
CONSULTING ENGINEERS

CITY OF MYRTLE BEACH, SOUTH CAROLINA
DEPARTMENT OF PUBLIC WORKS

SCALE

1" = 1/2 MILE

SITUATION PLAN FOR
WASTEWATER TREATMENT PLANT
EFFLUENT FORCE MAIN

SHEET 2

OF 44



PROJECT NO.

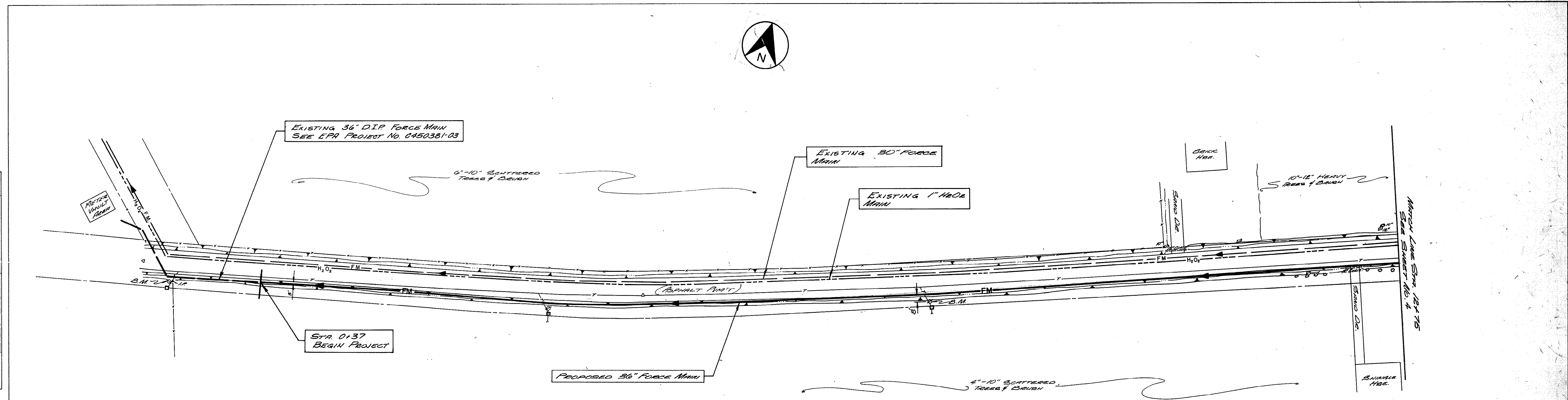
SHEETS

78284

20-204-002146

PLAN	DATE	BY
	SURVEYED	
	NOTE BOOK	
	ALIGNMENT CHECKED	
No.		

PROFILE	DATE	BY
	SURVEYED	
	NOTE BOOK	
	GRADES CHECKED	
No.		



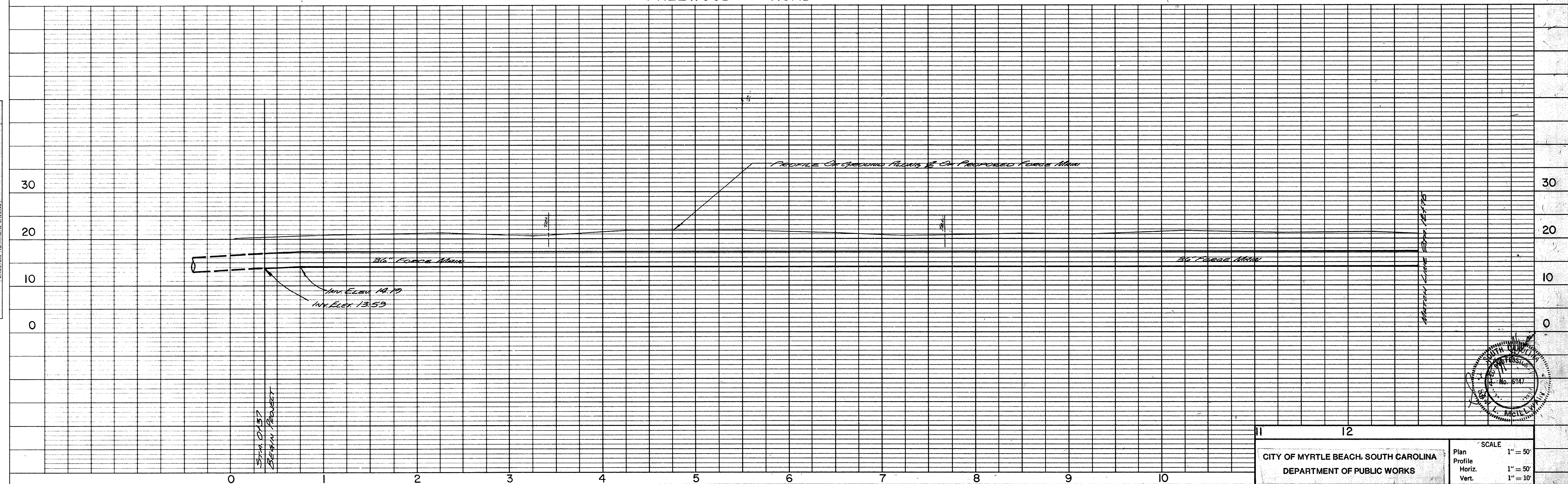
B.M. - NAIL IN P.P. #5 S. SIDE
FREWOOD RD.
ELEV. 22.89

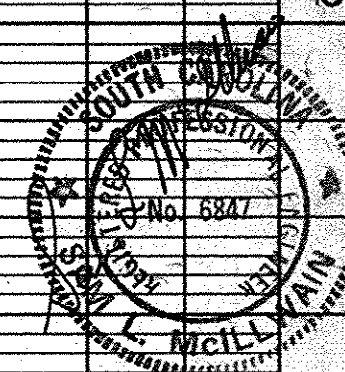
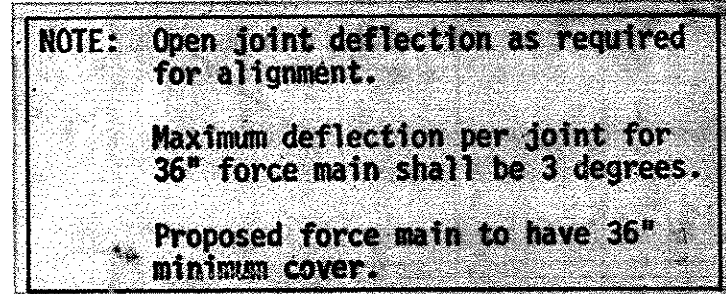
NOTE: THE CONTRACTOR FOR THIS PROJECT SHALL TIE-INTO THE EXISTING 36" D.I.P. FORCE MAIN BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONNECTION FITTINGS REQUIRED, ANY MINOR GRADE AND ALIGNMENT ADJUSTMENTS REQUIRED AND CO-ORDINATION OF THE TIE-IN WITH THE APPROPRIATE OPERATING AUTHORITY.

B.M. - R.R. SPIKE IN P.P. #3 S.
SIDE FREWOOD RD.
ELEV. 23.38

NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.

FREWOOD ROAD

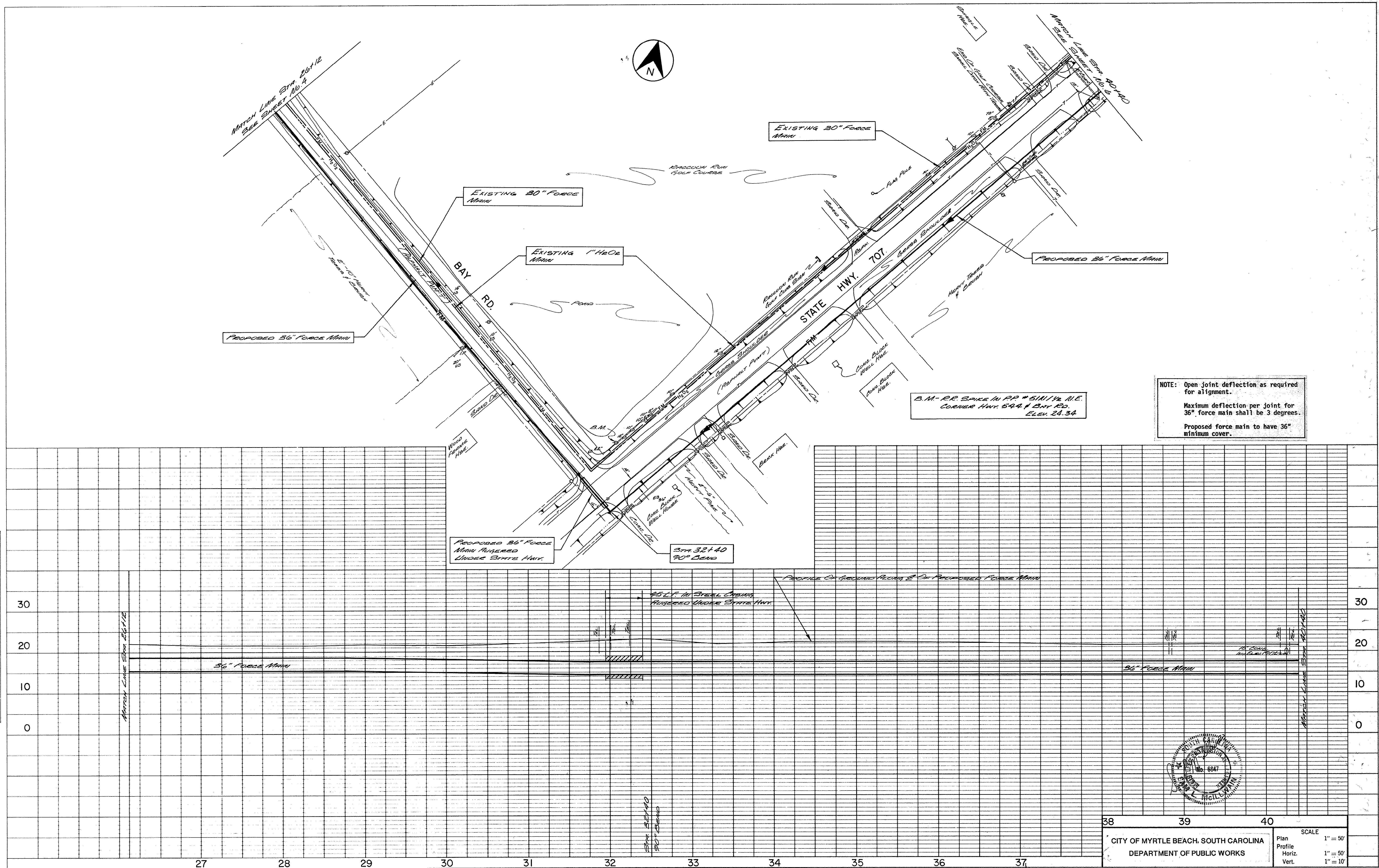


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20-204-004146

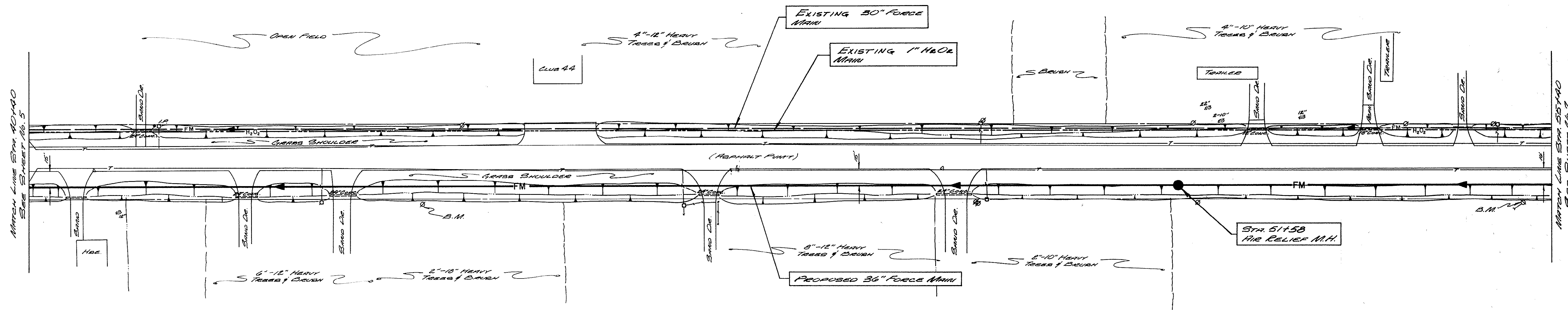
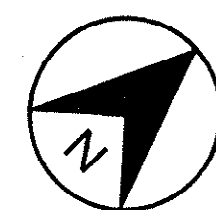
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 SURVEYED
 NOTE BOOK
 ATTACHMENT CHECKED
 BY
 DATE

PROFILE
 SURVEYED
 NOTE BOOK
 GRADES CHECKED
 BY
 DATE



PLAN
 SURVEYED
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 NOTE BOOK GRADES CHECKED
 NO. 101 OF 101 CHECKED

PROFILE
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 PLOTTED
 NOTE BOOK GRADES CHECKED
 NO. 101 OF 101 CHECKED

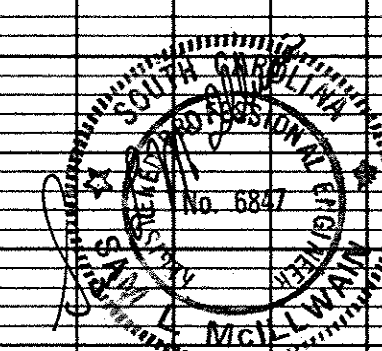
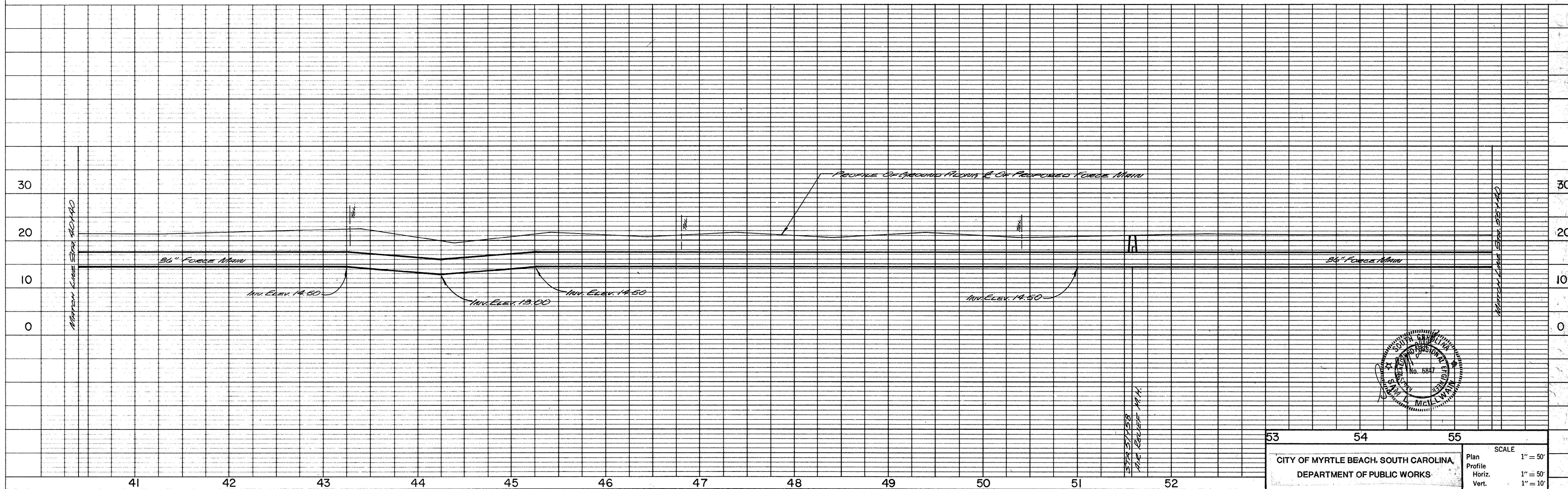


B.M.-R.R. SPIKE IN P.P. # 51135
 S. SIDE HWY. 707
 ELEV. 23.00

B.M.-R.R. SPIKE IN P.P. # 51136
 S. SIDE OF HWY. 707
 ELEV. 22.64

NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

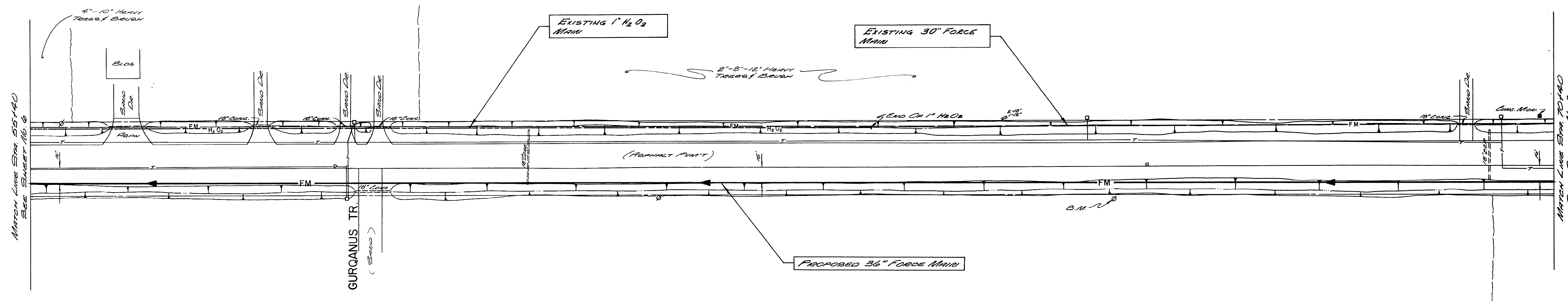
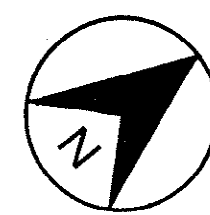
STATE HWY. 707



20-204-006146

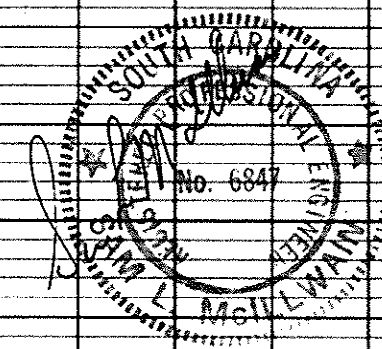
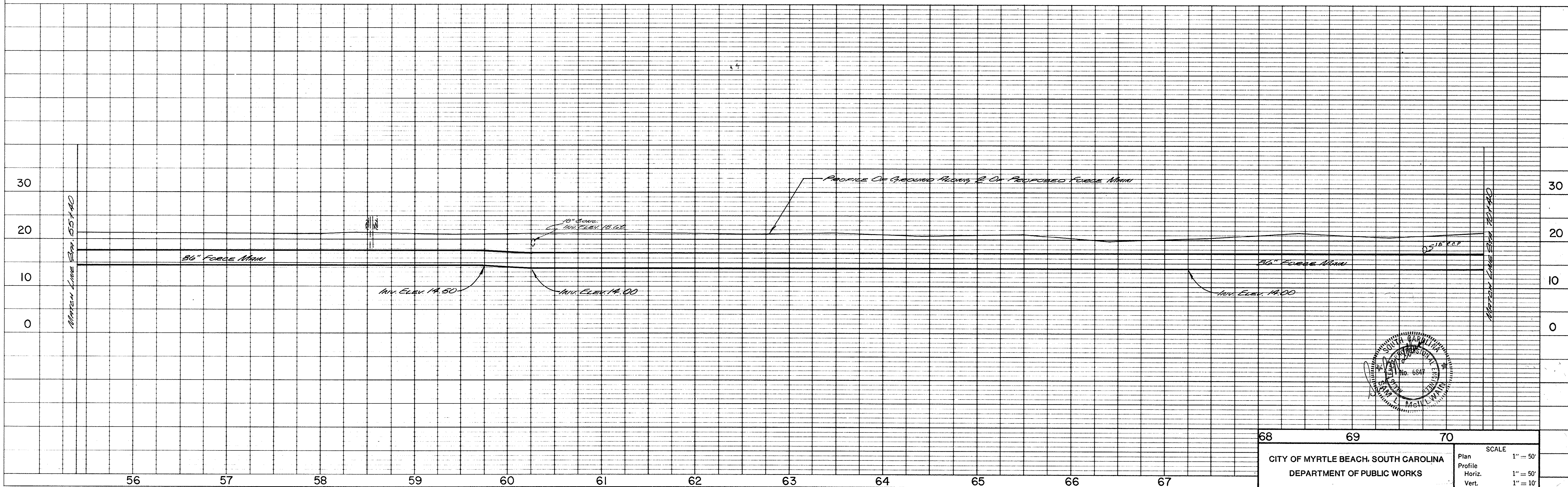
PLAN
 SURVEYED
 NOTE BOOK
 No.

PROFILE
 SURVEYED
 NOTE BOOK
 No.



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

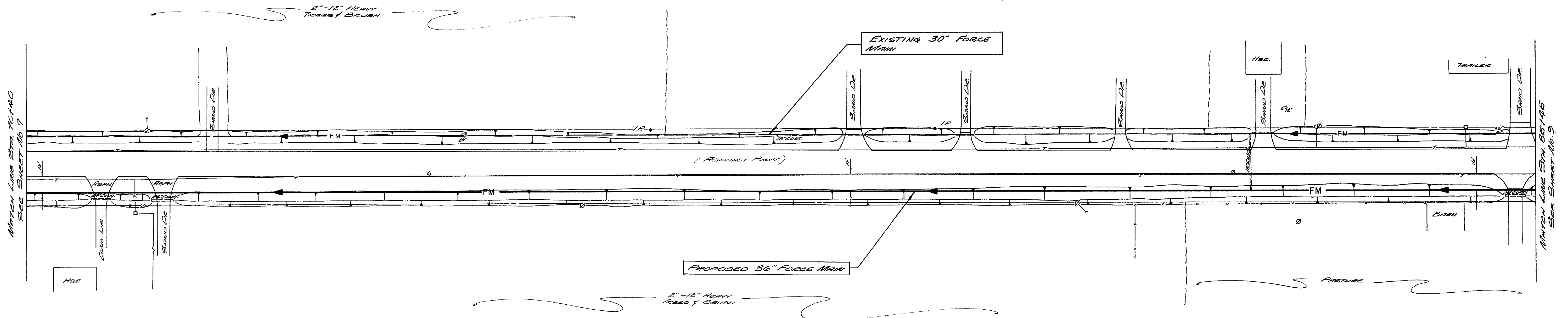
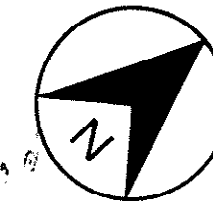
STATE HWY. 707



68 69 70
 CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS
 SCALE
 Plan 1" = 50'
 Profile 1" = 50'
 Horiz. 1" = 50'
 Vert. 1" = 10'

PLAN
 SURVEYED
 NOTE BOOK
 ALIGNMENT CHECKED
 BY OF WAY CHECKED
 No.

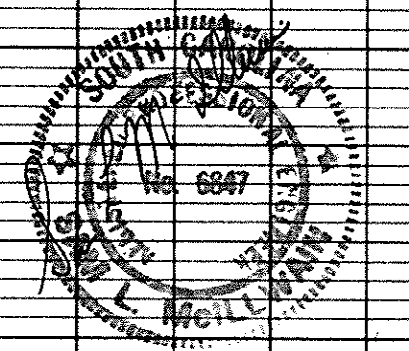
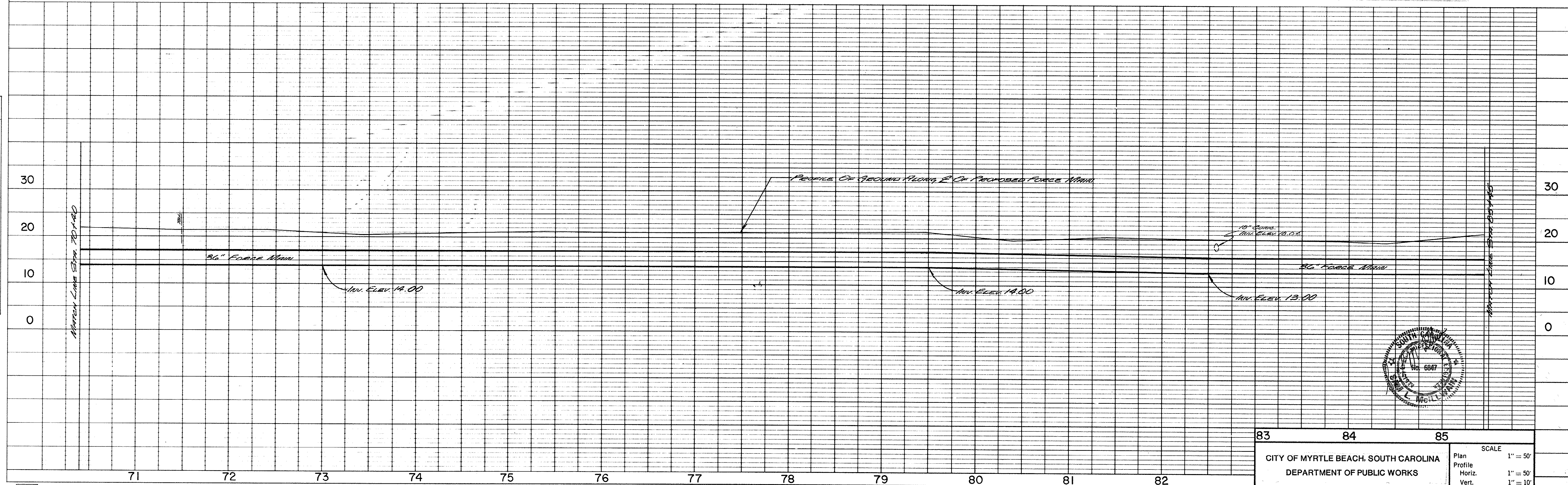
PROFILE
 SURVEYED
 NOTE BOOK
 GRADES CHECKED
 BY
 STRUCTURE LOCATIONS CHECKED
 No.



B.M. - R.R. SPIKE IN RR #32
 S. SIDE HWY. 707
 ELEV. 21.38

NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

STATE HWY. 707



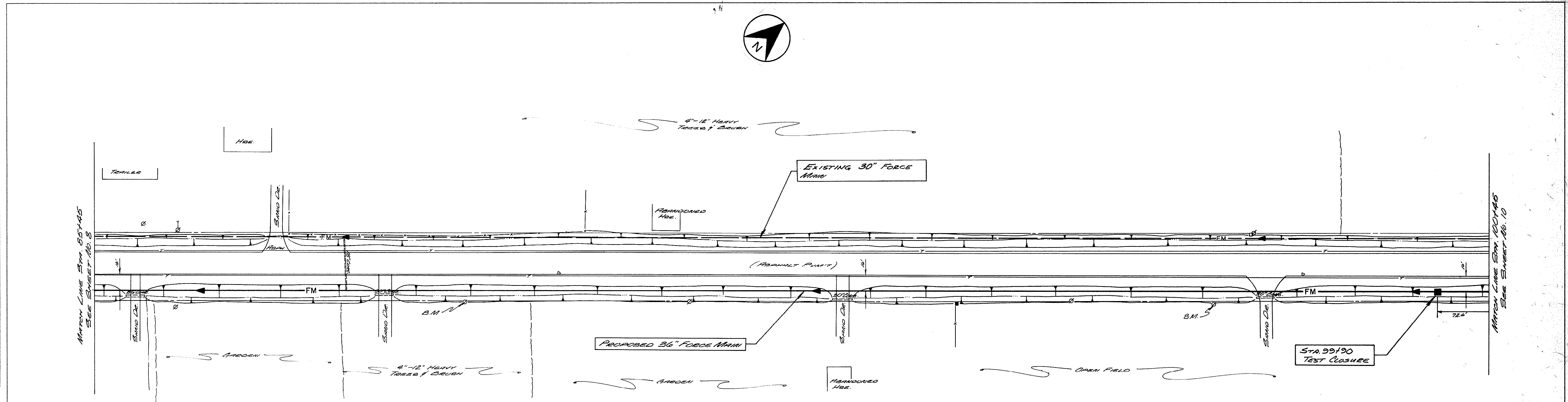
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

83 84 85
 CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS
 SCALE
 Plan 1" = 50'
 Profile 1" = 50'
 Vert. 1" = 10'
 SHEET 8 OF 44 SHEETS 78284

20-204-008/46

PLAN
 SURVEYED BY DATE
 NOTE BOOK ALIGNED CHECKED
 No. RT. OF WAY CHECKED

PROFILE
 SURVEYED BY DATE
 NOTE BOOK GRADES CHECKED
 No. B.M. 1. NOTED
 STRUCTURE NOTATIONS CHECKED

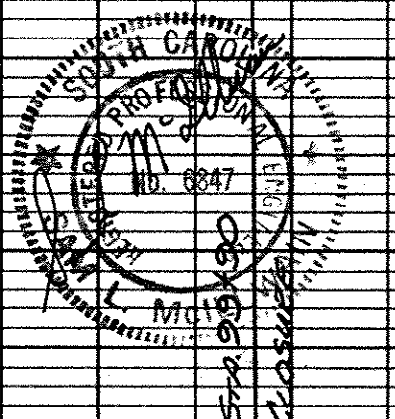
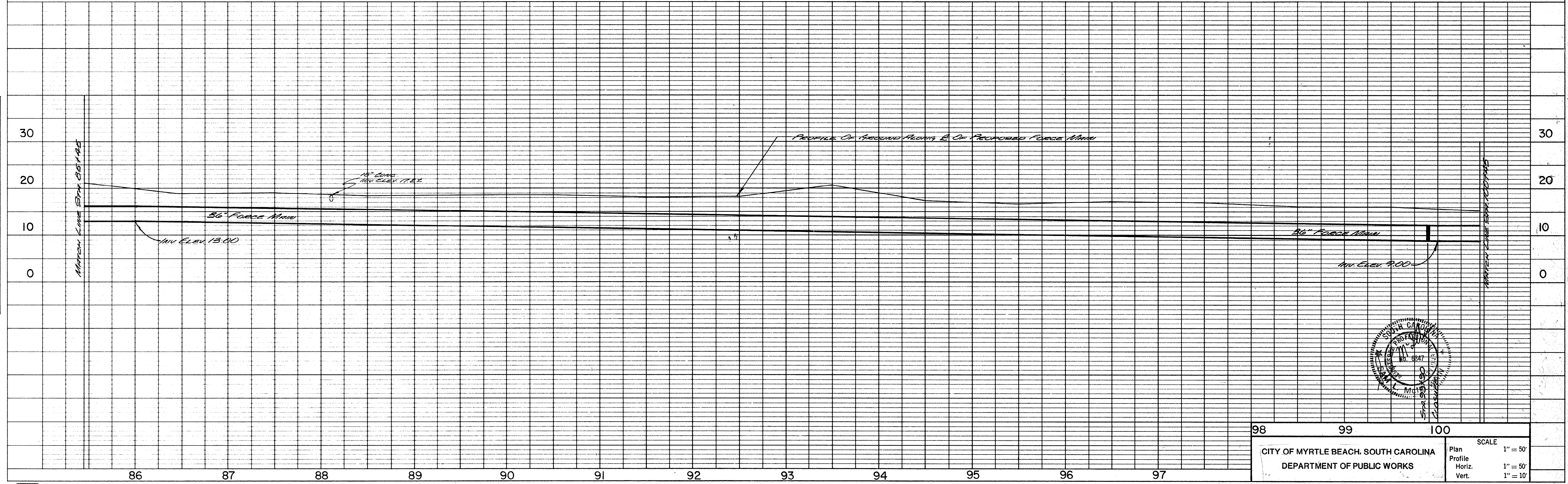


B.M. - R.R. SPIKE IN PP. # 201/29
 S. SIDE HWY. 707
 ELEV. 22.48

B.M. - R.R. SPIKE IN PP. # 3
 S. SIDE HWY. 707
 ELEV. 19.86

NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

STATE HWY. 707



CONSORE, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

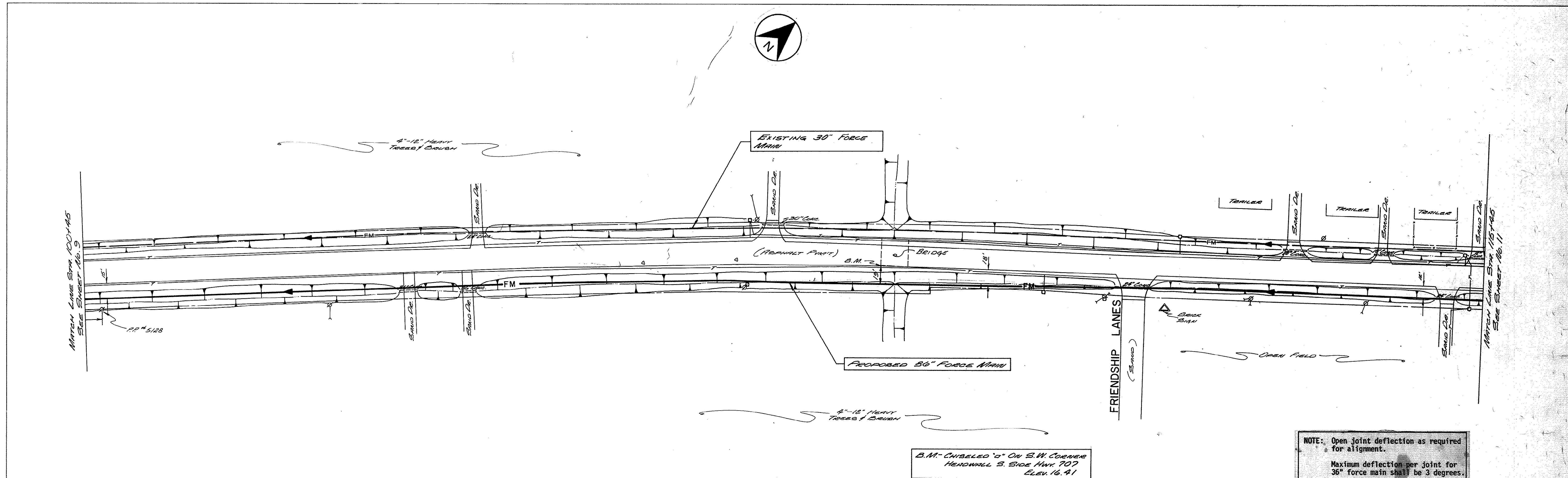
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 CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS
 SCALE
 Plan 1" = 50'
 Profile 1" = 50'
 Vert. 1" = 10'

SHEET 9 OF 44 SHEETS 78284

20-204-009/46 RECORD

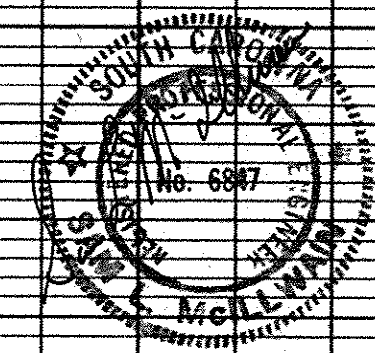
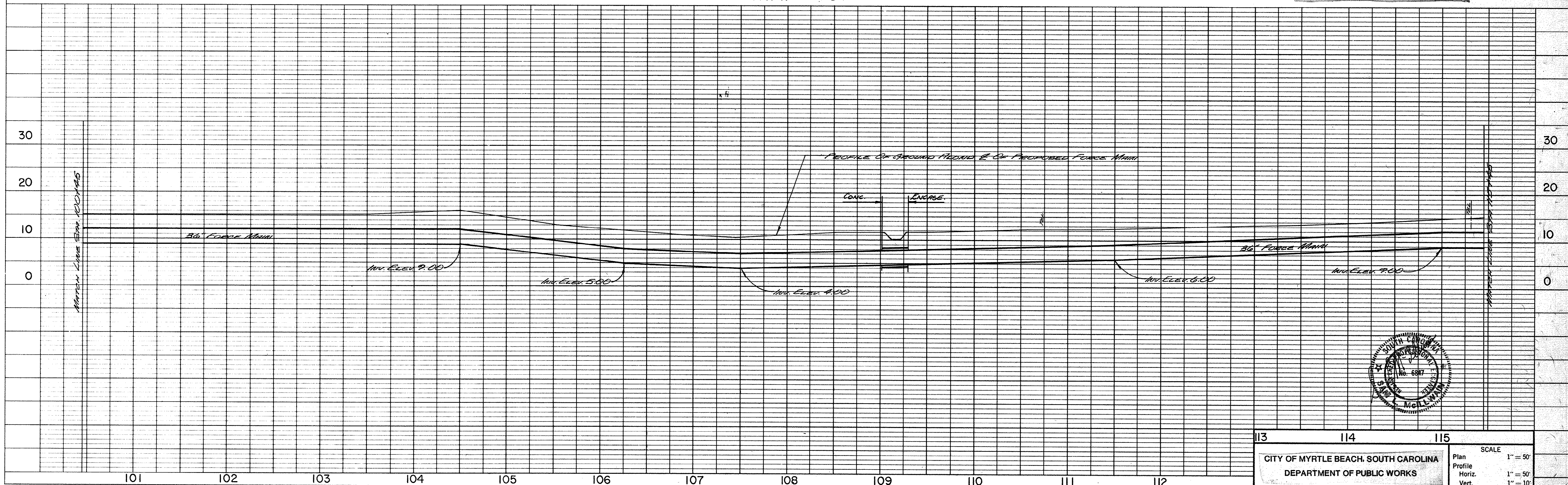
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	NOTED		
	ALIGNMENT CHECKED		
NOTE BOOK			
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PROFILE	DATE	BY	DATE
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	STRUCTURE NOTATIONS CHECKED		
NOTE BOOK			
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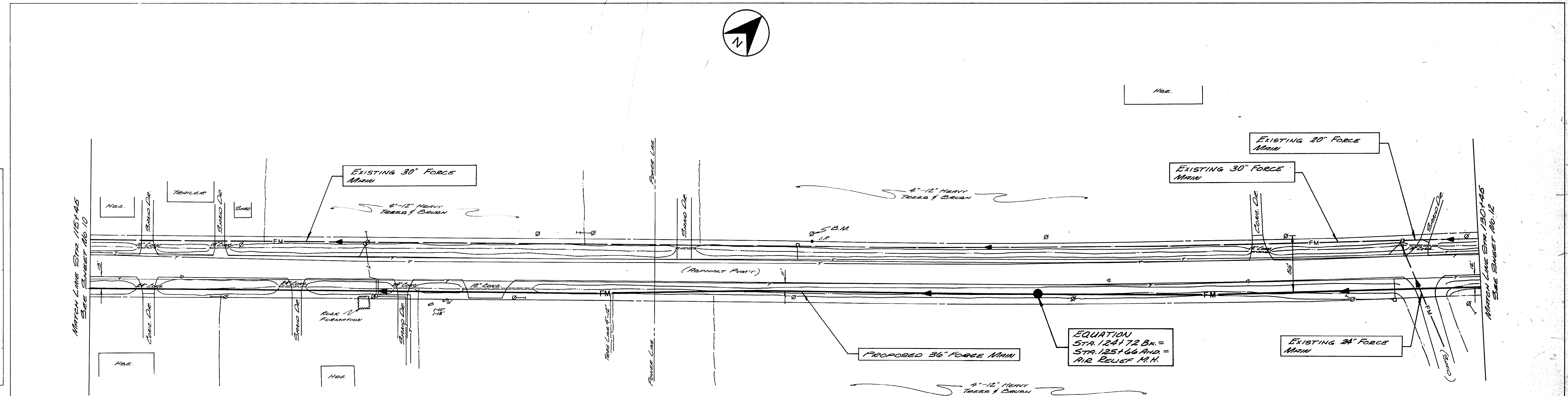
STATE HWY. 707

NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.

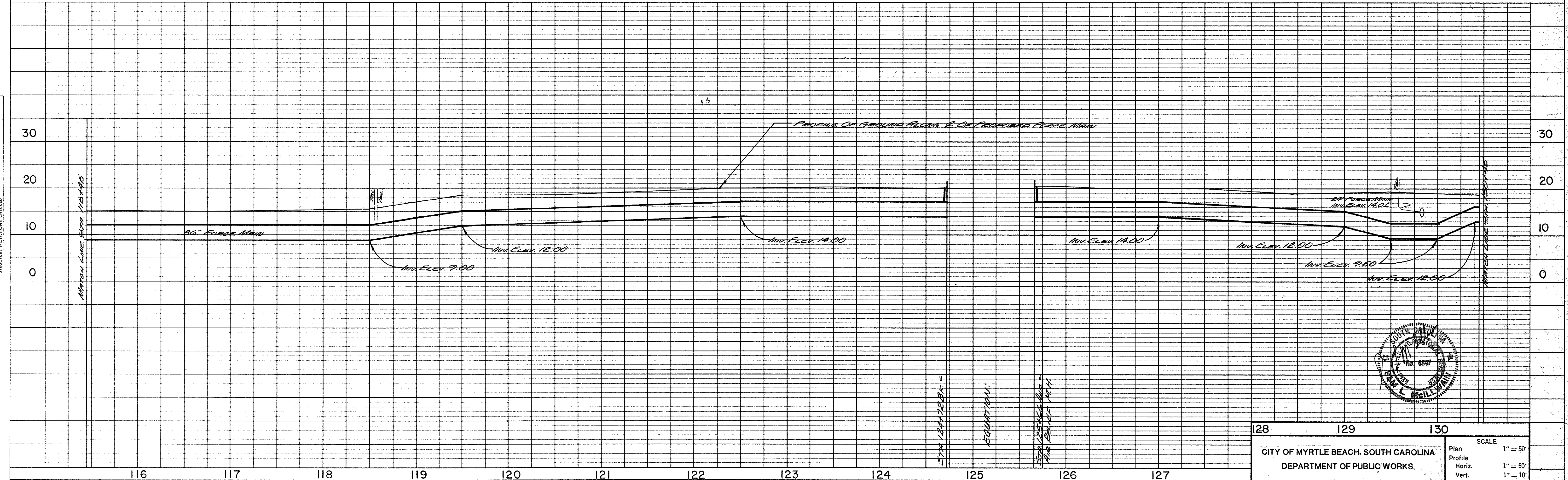


PLAN
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 NOTE BOOK
 ALIGNMENT CHECKED
 BY
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PROFILE
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 NOTED
 NOTE BOOK
 GRADES CHECKED
 BY
 DATE



STATE HWY. 707



CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

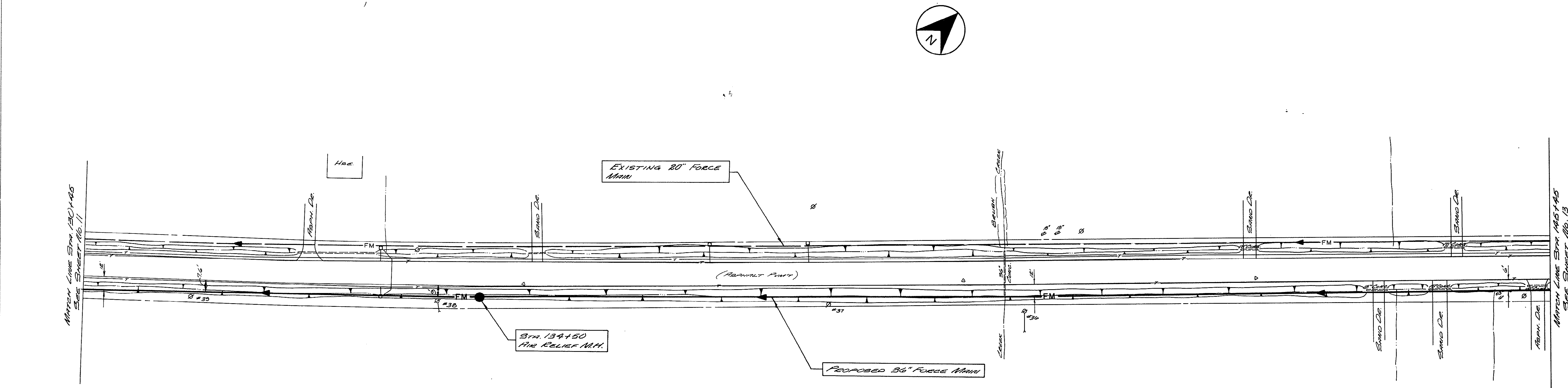
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 CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS
 SCALE
 Plan 1" = 50'
 Profile 1" = 50'
 Horiz. 1" = 50'
 Vert. 1" = 10'

SHEET 11 OF 44 SHEETS 78284

20-204-011/96

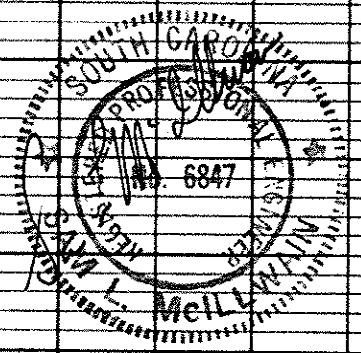
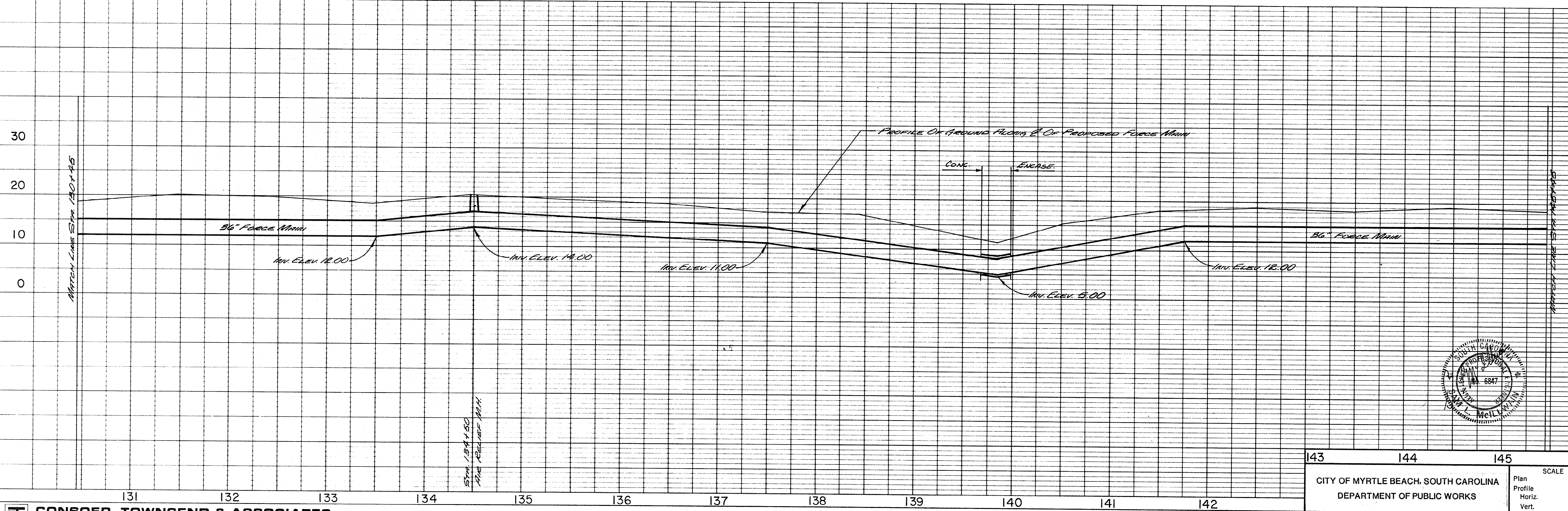
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PLOTTED
NOTE BOOK
No.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
No.



NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36\" force main shall be 3 degrees.
Proposed force main to have 36\" minimum cover.

STATE HWY. 707



CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
NASHVILLE, TENNESSEE

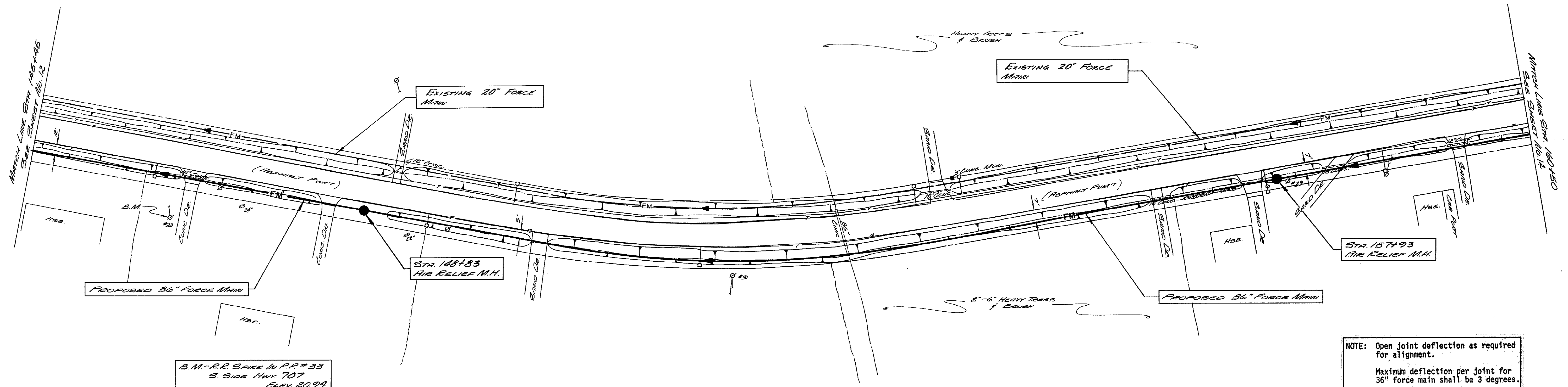
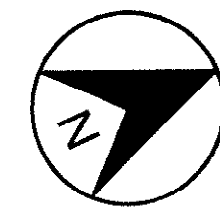
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CITY OF MYRTLE BEACH, SOUTH CAROLINA
DEPARTMENT OF PUBLIC WORKS
SCALE
Plan 1" = 50'
Profile 1" = 50'
Horiz. 1" = 50'
Vert. 1" = 10'

SHEET 12 OF 44 SHEETS 78284

20-204-012146

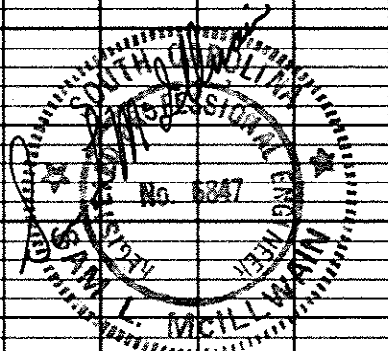
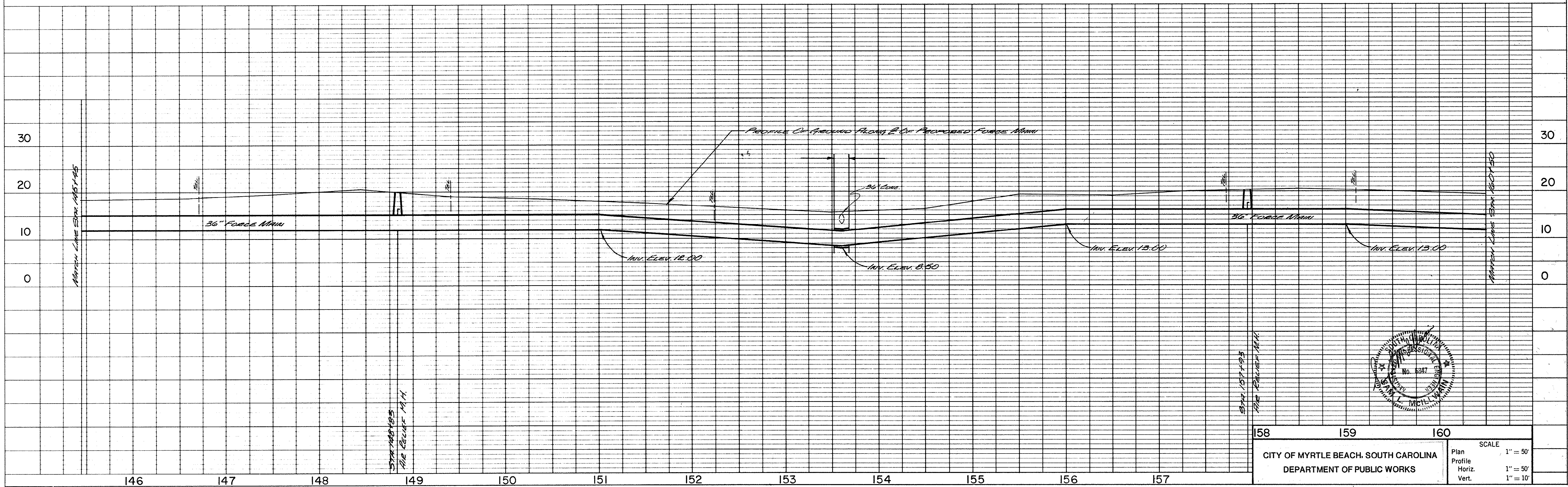
PLAN
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 NOTE BOOK
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 BY
 CHECKED
 NO.

PROFILE
 SURVEYED
 NOTE BOOK
 DATE
 BY
 CHECKED
 NO.



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

STATE HWY. 707



CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

SCALE
 Plan 1" = 50'
 Profile 1" = 50'
 Horiz. 1" = 50'
 Vert. 1" = 10'

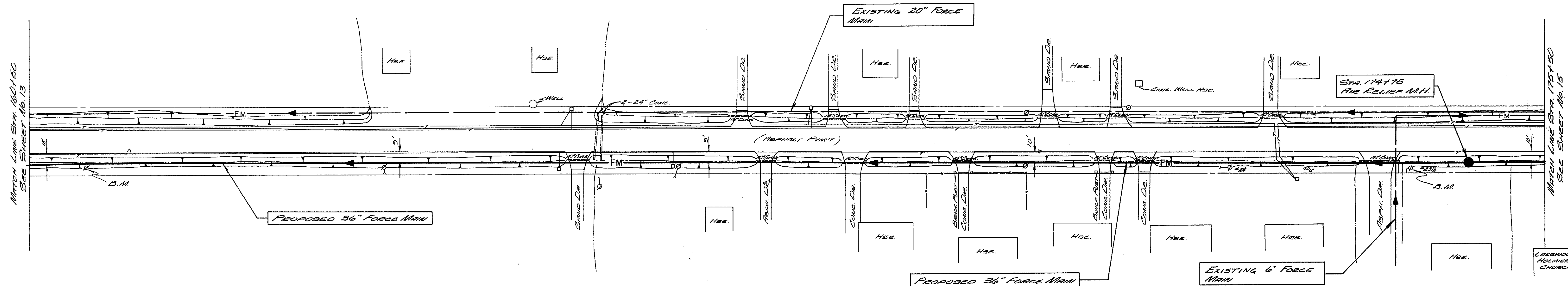
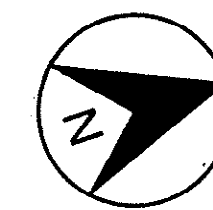
SHEET 13 OF 44 SHEETS

78284

20-204-013/46

PLAN
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NOTED
NOTE BOOK
BY
DATE
RE OF WAY CHECKED
No.

PROFILE
SURVEYED
NOTED
NOTE BOOK
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DATE
RE OF WAY CHECKED
No.

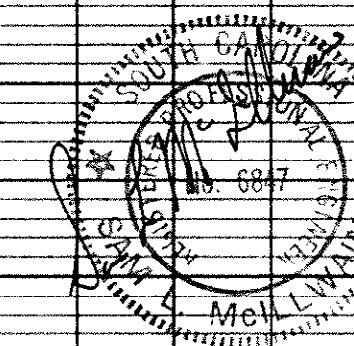
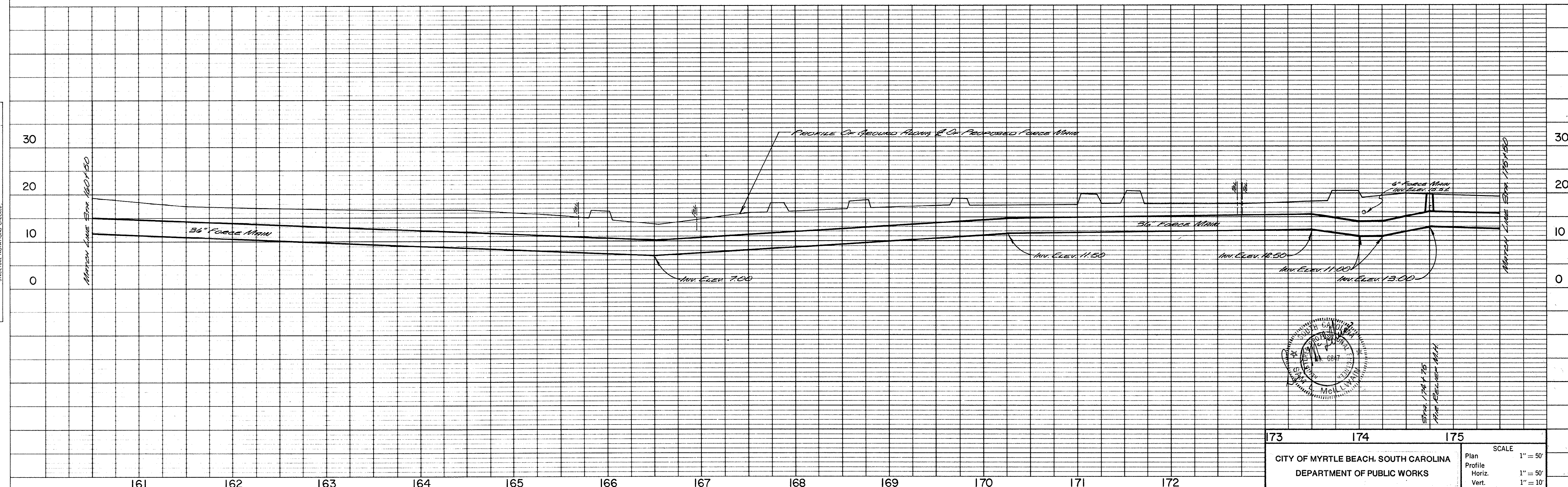


B.M. - R.R. Spike in PP
S. Side Hwy. 707
Elev. 20.73

B.M. - R.R. Spike in PP * 23 1/2
S. Side Hwy. 707
Elev. 22.10

NOTE: Open joint deflection as required
for alignment.
Maximum deflection per joint for
36" force main shall be 3 degrees.
Proposed force main to have 36"
minimum cover.

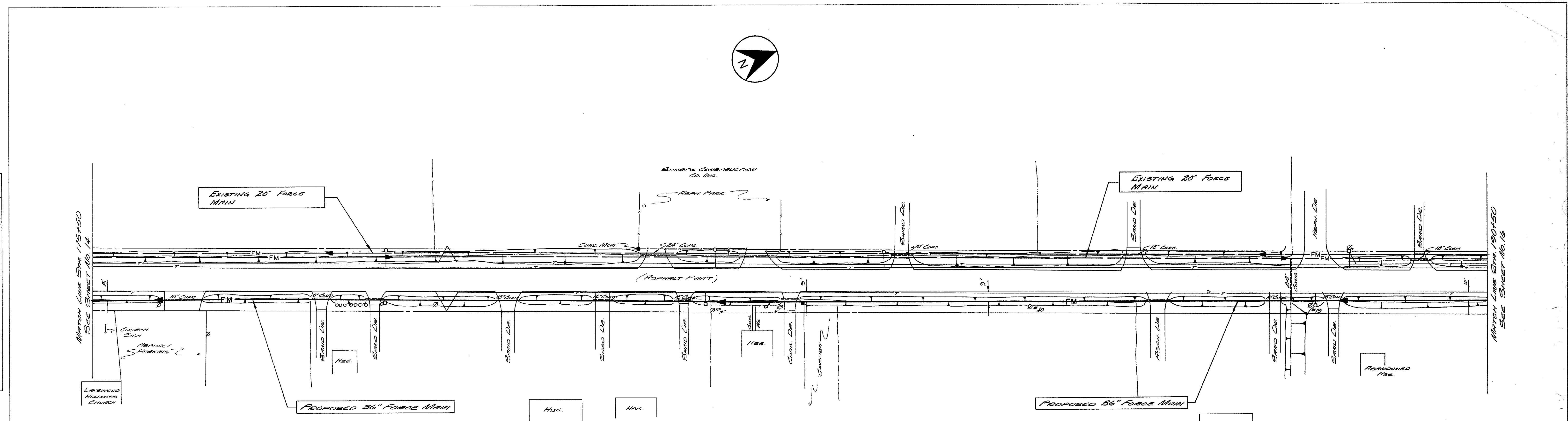
STATE HWY. 707



173	174	175
CITY OF MYRTLE BEACH, SOUTH CAROLINA		
DEPARTMENT OF PUBLIC WORKS		
SCALE		1" = 50'
Profile		1" = 50'
Horiz.		1" = 10'
Vert.		1" = 10'

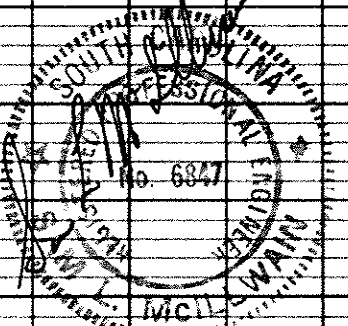
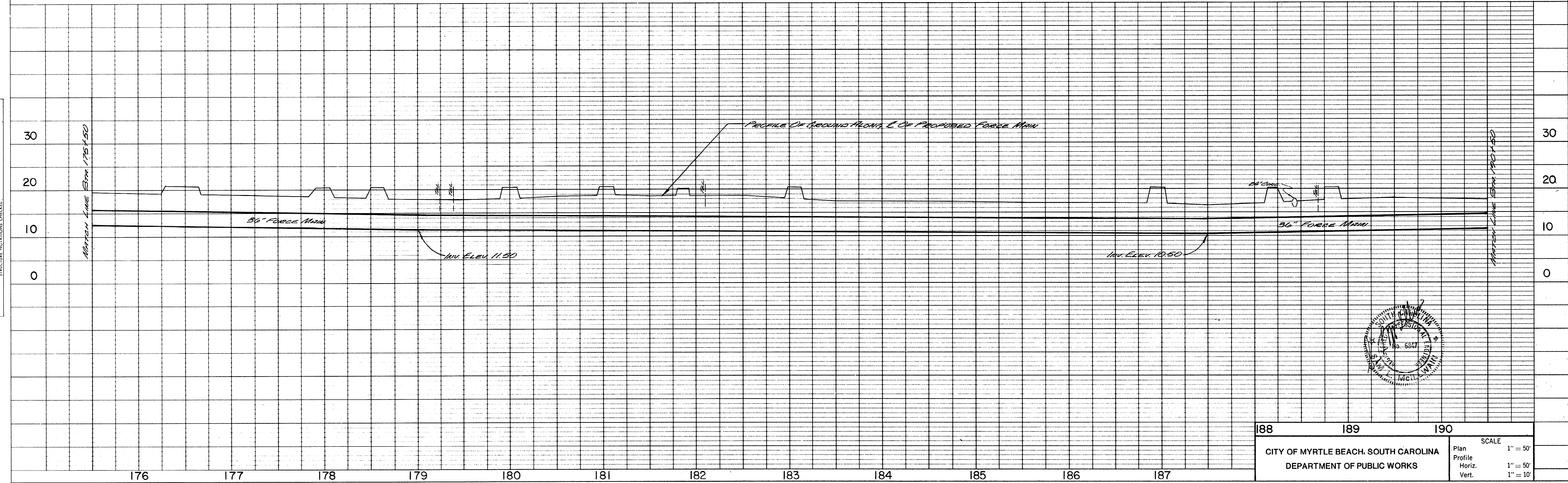
PLAN
 SURVEYED
 NOTED
 NOTE BOOK
 ALIGNMENT CHECKED
 BY OF WAY CHECKED
 No.

PROFILE
 SURVEYED
 NOTED
 NOTE BOOK
 GRADES CHECKED
 B.M. NOTED
 STRUCTURE ELEVATIONS CHECKED
 No.



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

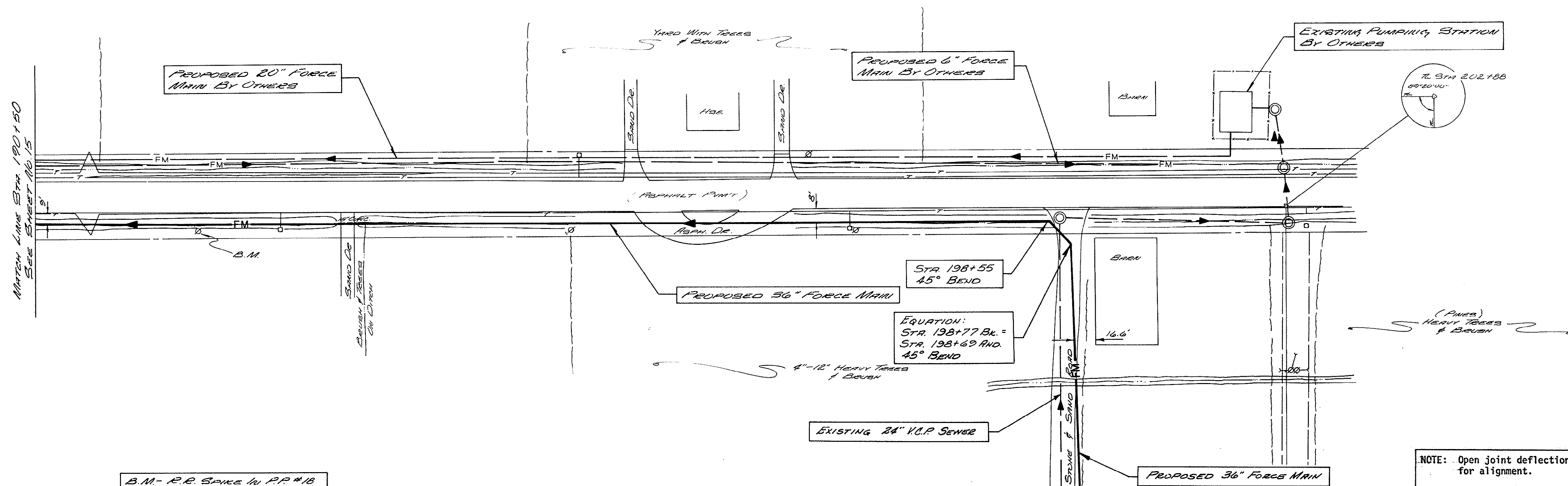
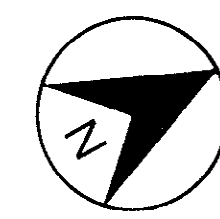
STATE HWY. 707



188	189	190
CITY OF MYRTLE BEACH, SOUTH CAROLINA DEPARTMENT OF PUBLIC WORKS		
SCALE Plan 1" = 50' Profile 1" = 50' Horiz. 1" = 50' Vert. 1" = 10'		

PLAN
SURVEYED
NOTED
NOTE BOOK ASSIGNED CHECKED
No

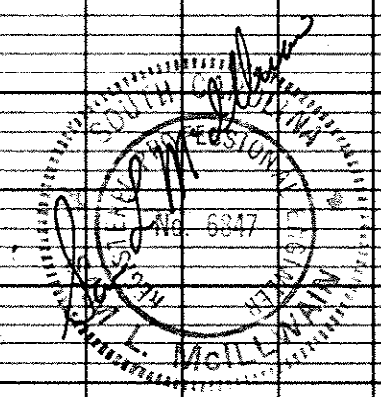
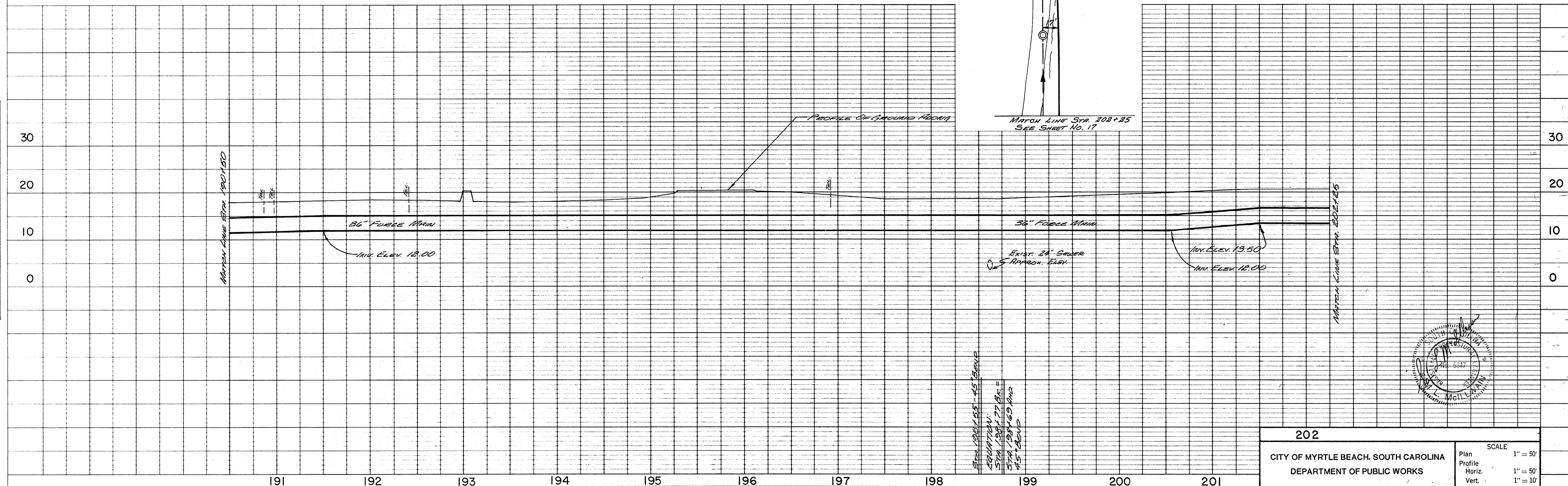
PROFILE
SURVEYED
NOTED
NOTE BOOK CHECKED
No



B.M. - R.P. Spike in PP #18
S. Side Hwy. 707
Elev. 23.04

NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.

STATE HWY. 707



CONSOER, TOWNSEND & ASSOCIATES
NASHVILLE, TENNESSEE

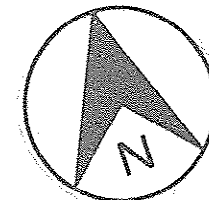
202
CITY OF MYRTLE BEACH, SOUTH CAROLINA
DEPARTMENT OF PUBLIC WORKS
SHEET 16 OF 44 SHEETS
78284
SCALE
1" = 50'
1" = 50'
1" = 10'

ADDENDUM NO. 1 10-7-80

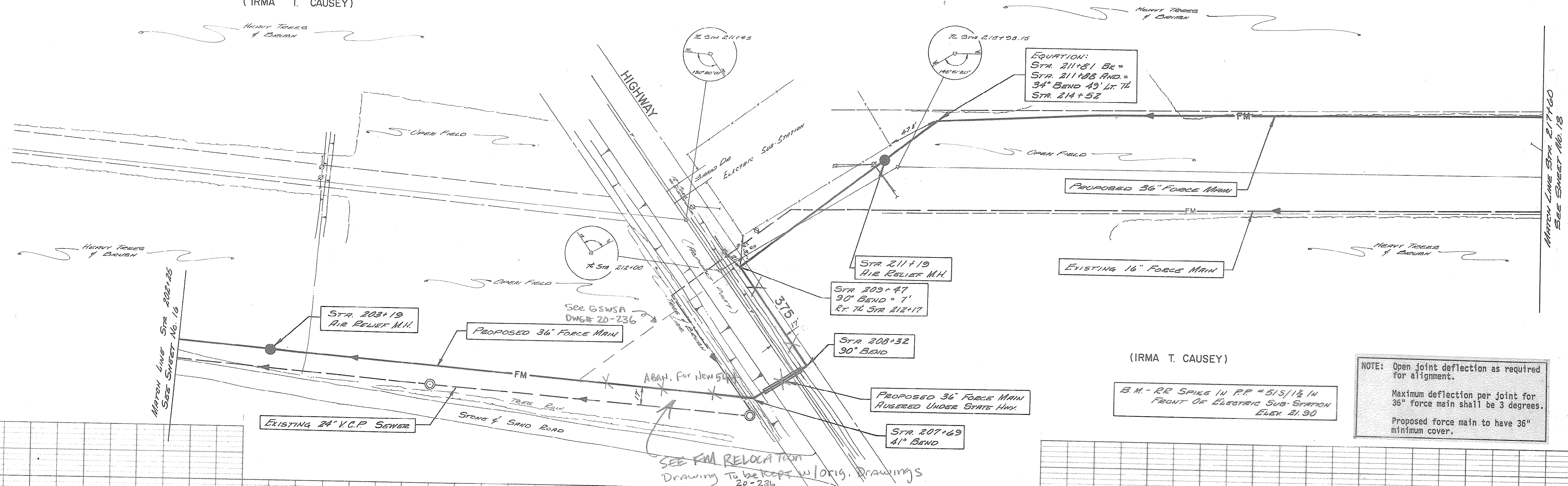
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PLAN
 SURVEYED BY DATE
 NOTE BOOK NO. PLANT CHECKED BY PLANT CHECKED BY

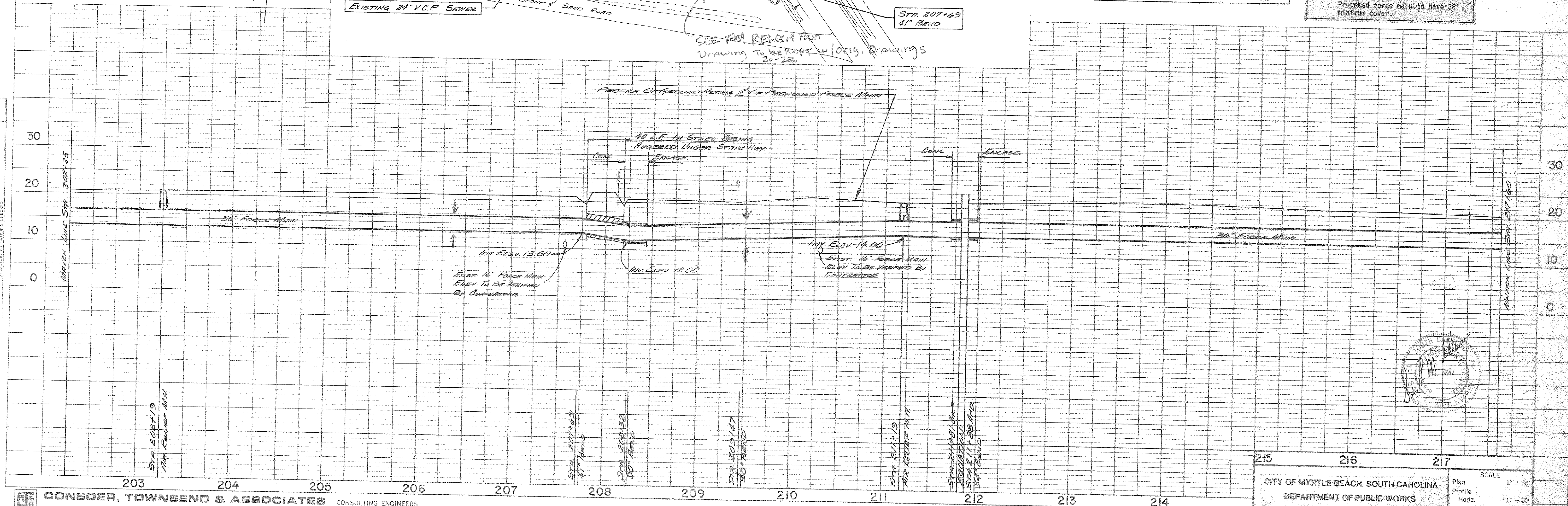
PROFILE
 SURVEYED BY DATE
 NOTE BOOK NO. PLANT CHECKED BY PLANT CHECKED BY



(IRMA T. CAUSEY)



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.



CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS
 SCALE: 1" = 50'
 Horiz. 1" = 50'
 Vert. 1" = 10'

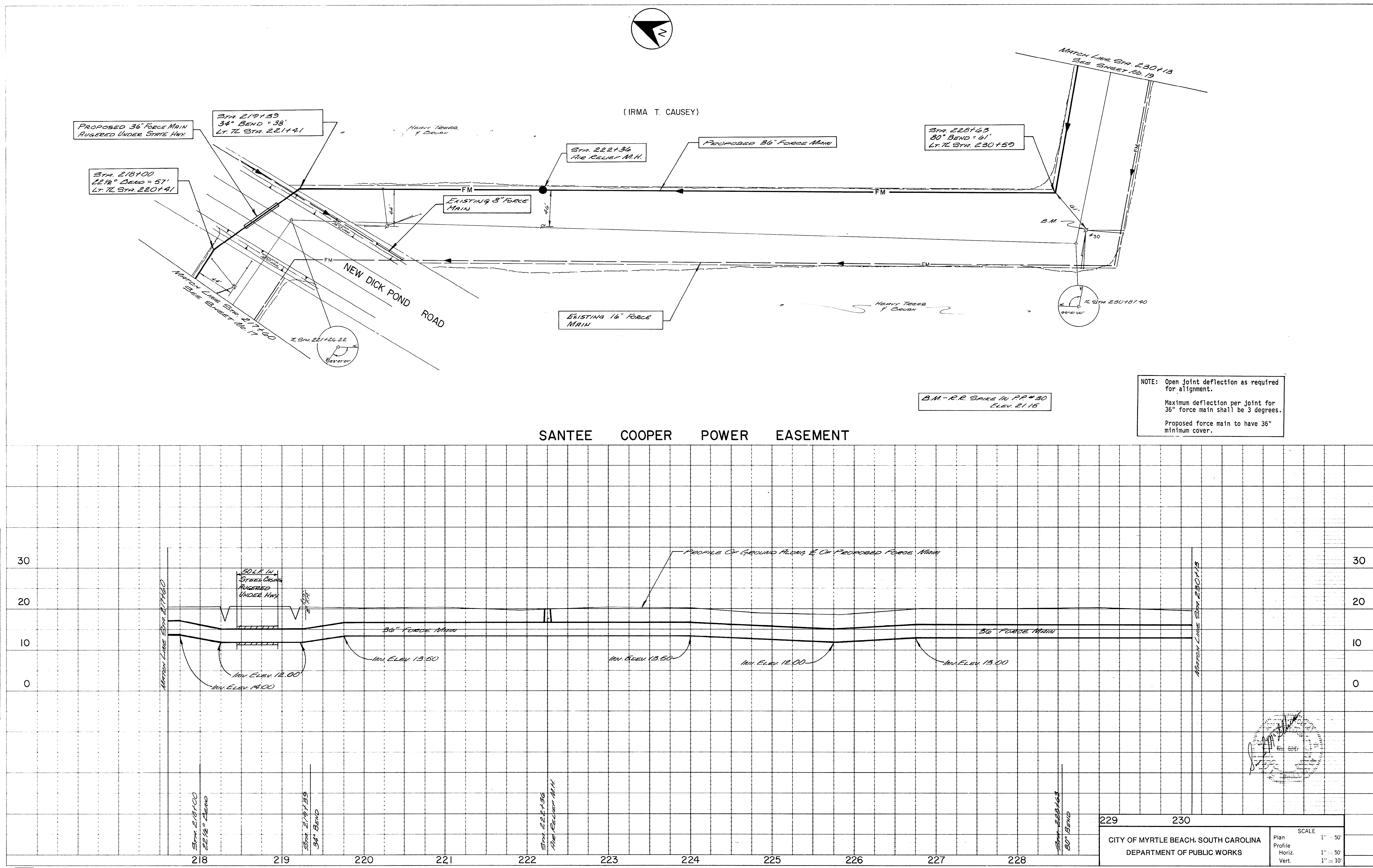
SHEET 17 OF 44 SHEETS 78284

REVISED 5-12-81 ADDENDUM NO. 1 10-7-80

20-204-017/46

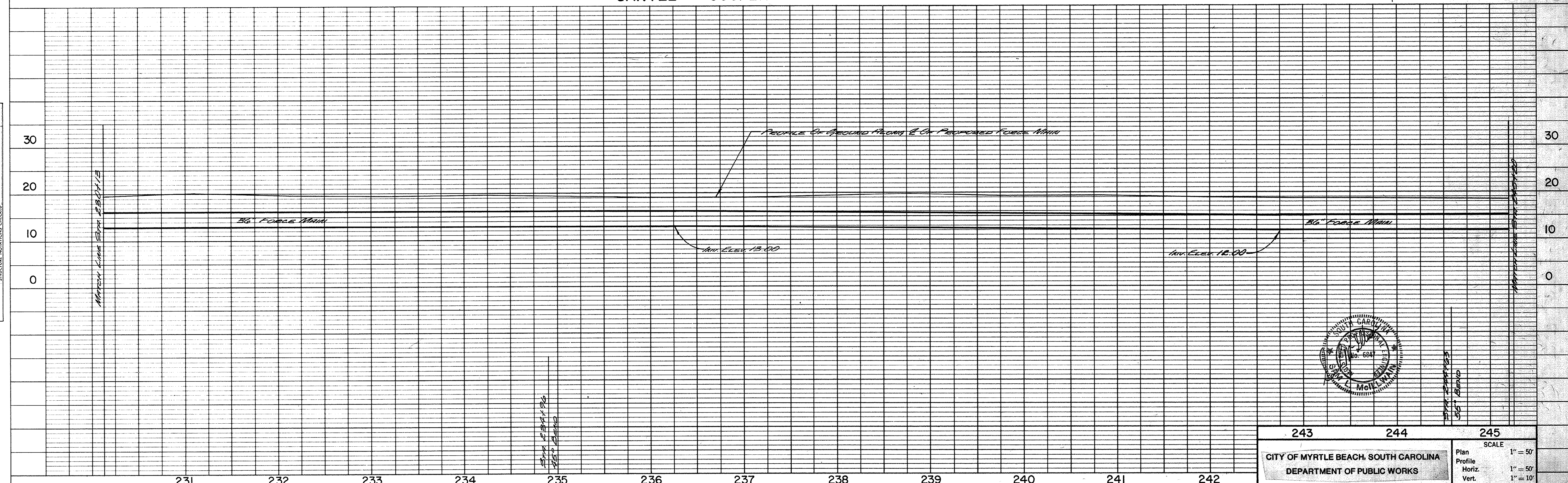
PLAN
SHEET NO. 18
NOTE BOOK
BY: [Signature]
DATE: 10/1/13
CHECKED: [Signature]
DATE: 10/1/13

PROFILE
SHEET NO. 19
NOTE BOOK
BY: [Signature]
DATE: 10/1/13
CHECKED: [Signature]
DATE: 10/1/13

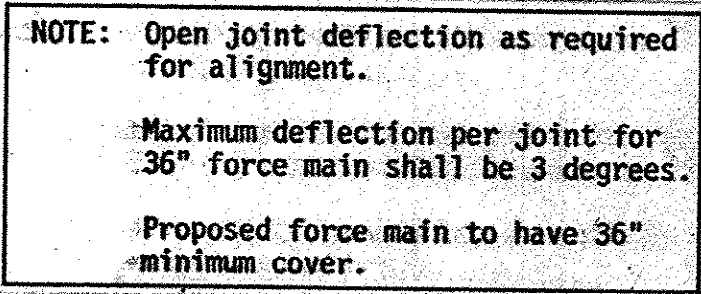
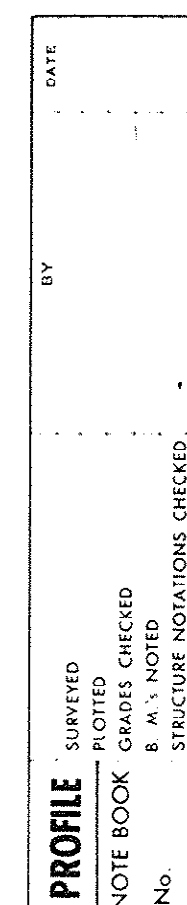


20-204-018/46

PROFILE NOTE BOOK	SURVEYED PLOTTED GRAPHS CHECKED B. M.'S. NOTED No. _____	BY _____ DATE _____
	EXPIRATION MONTHS CHECKED _____	

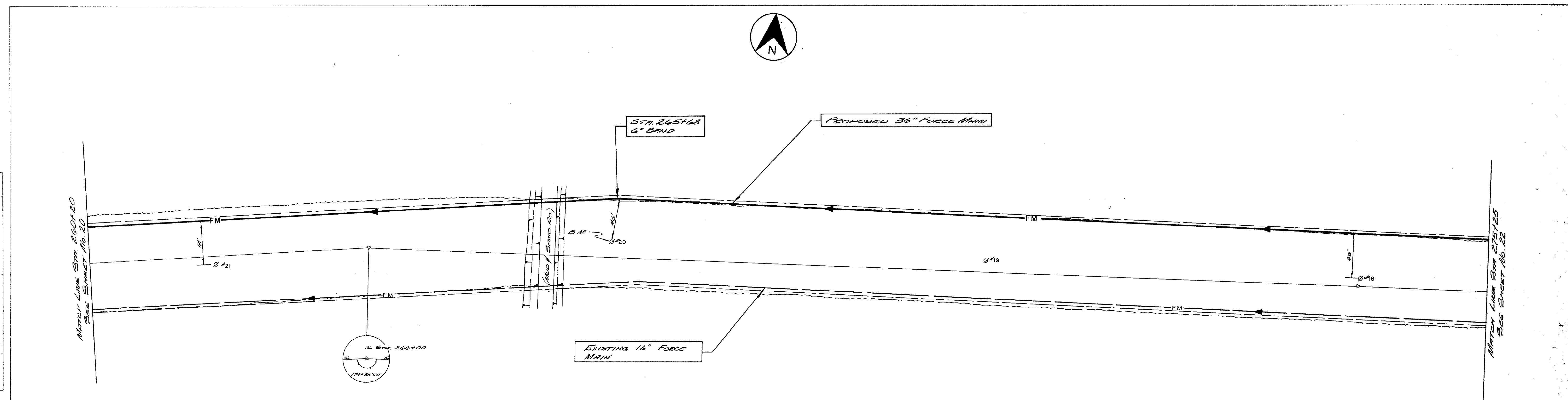


20-204-019/46

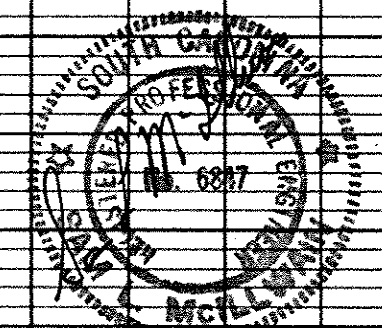
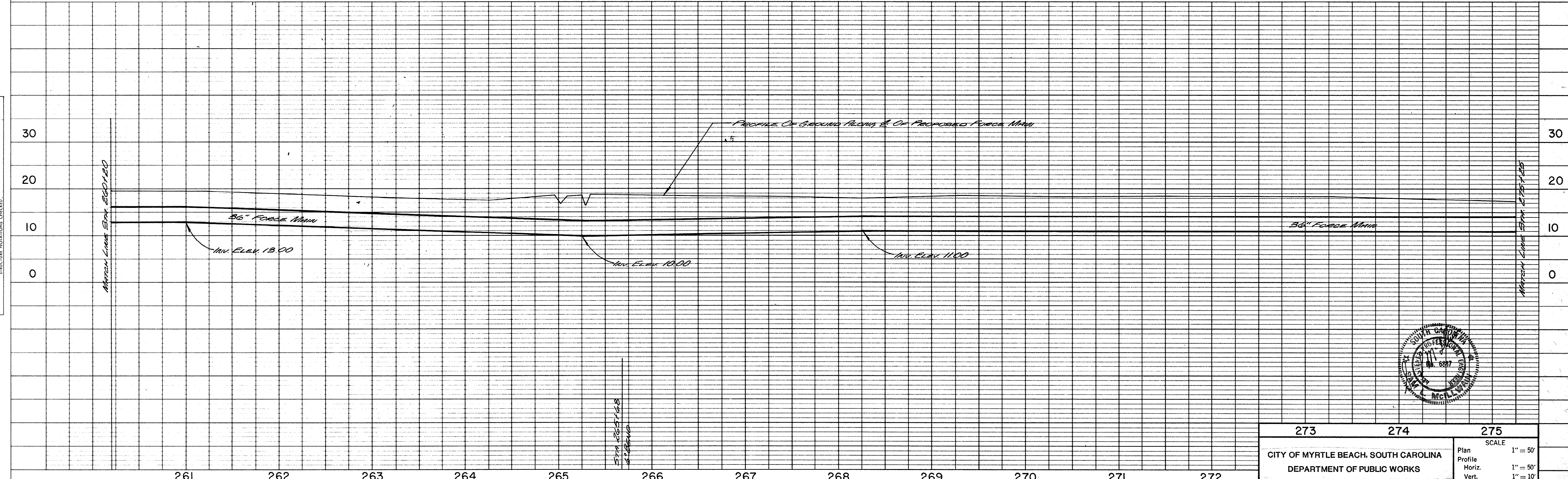


PLAN
SURVEYED
NOTE BOOK
DATE
BY
CHECKED
BY
DATE

PROFILE
SURVEYED
NOTE BOOK
DATE
BY
CHECKED
BY
DATE



SANTEE COOPER POWER EASEMENT



CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
NASHVILLE, TENNESSEE

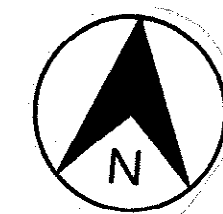
273	274	275
CITY OF MYRTLE BEACH, SOUTH CAROLINA DEPARTMENT OF PUBLIC WORKS		
SCALE Plan 1" = 50' Profile 1" = 50' Vert. 1" = 10'		

SHEET 21 OF 44 SHEETS 78284

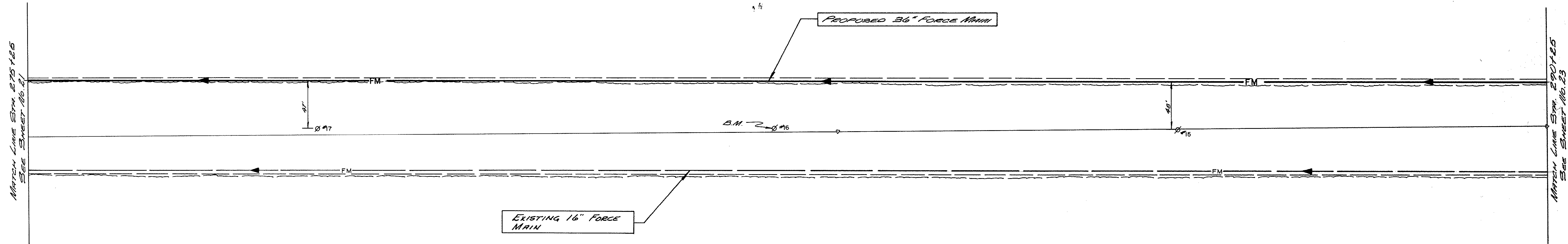
20-204-021/46

PLAN	SURVEYED	BY	DATE
	NOTED		
	NOTE BOOK	ALIGNMENT CHECKED	
	No.	PI. OF WAY CHECKED	

PROFILE	SURVEYED	BY	DATE
	NOTED		
	NOTE BOOK	GRADE CHECKED	
	No.	STRUCTURE NOTATIONS CHECKED	



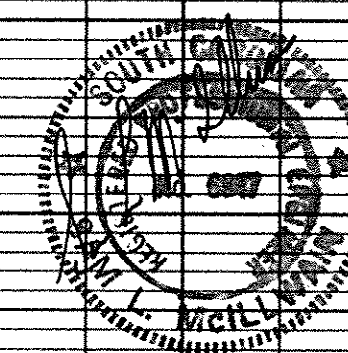
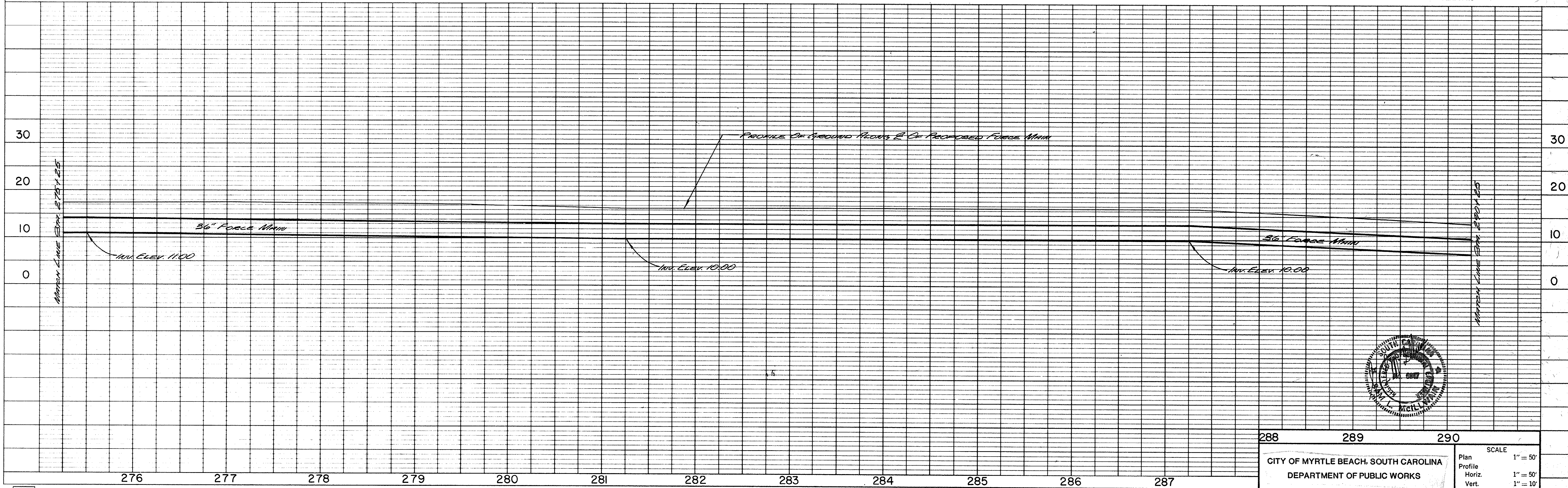
(INTERNATIONAL PAPER CO.)



B.M.-R.R. Spike in R.R.#16
Elev. 17.46

NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.

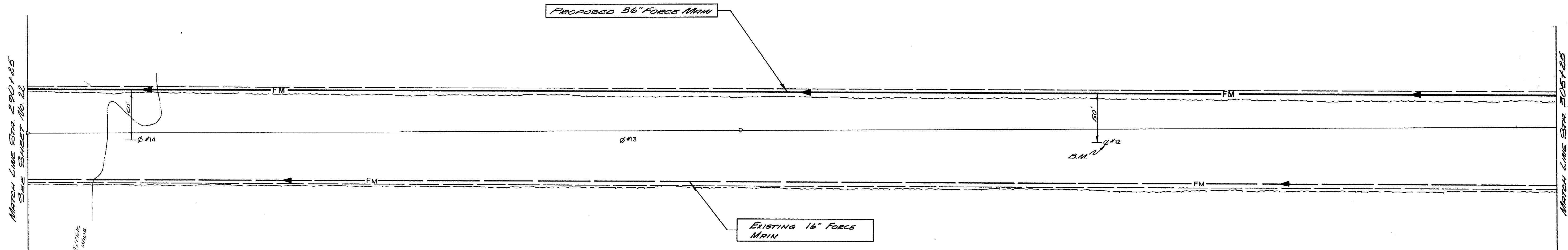
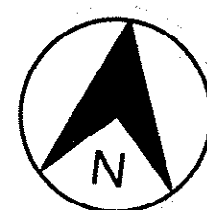
SANTEE COOPER POWER EASEMENT



20-204-022/46

PLAN	DATE	BY
	SURVIVED	
	NOTED	
	NOTE BOOK ALIGNMENT CHECKED	
No. 11 OF WAY CHECKED		

PROFILE	DATE	BY
	SURVIVED	
	NOTED	
	NOTE BOOK GRADES CHECKED	
No. STRUCTURE NOTATIONS CHECKED		

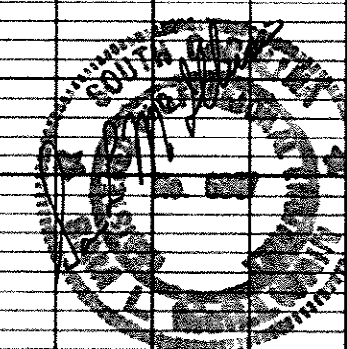
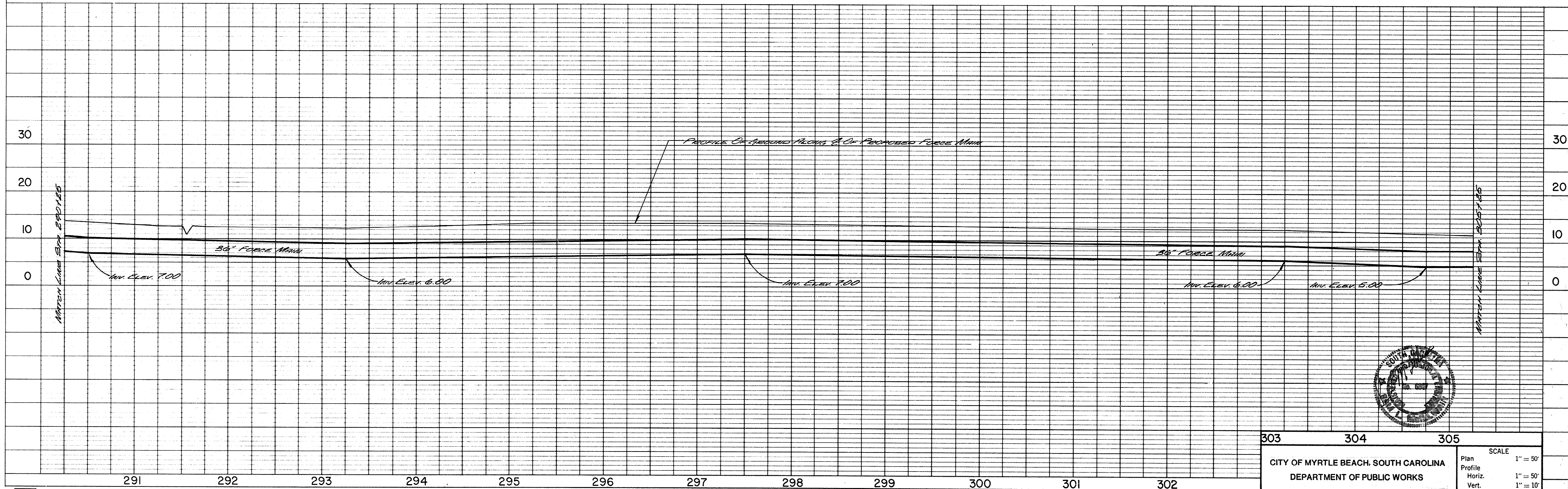


(INTERNATIONAL PAPER CO.)

SANTEE COOPER POWER EASEMENT

B.M. - R.R. SPIKE IN R.P. #12
ELEV. 14.50

NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.



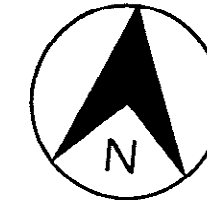
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
NASHVILLE, TENNESSEE

303 304 305
CITY OF MYRTLE BEACH, SOUTH CAROLINA
DEPARTMENT OF PUBLIC WORKS
SHEET 23 OF 44 SHEETS 78284
SCALE
Plan 1" = 50'
Profile 1" = 50'
Vert. 1" = 10'

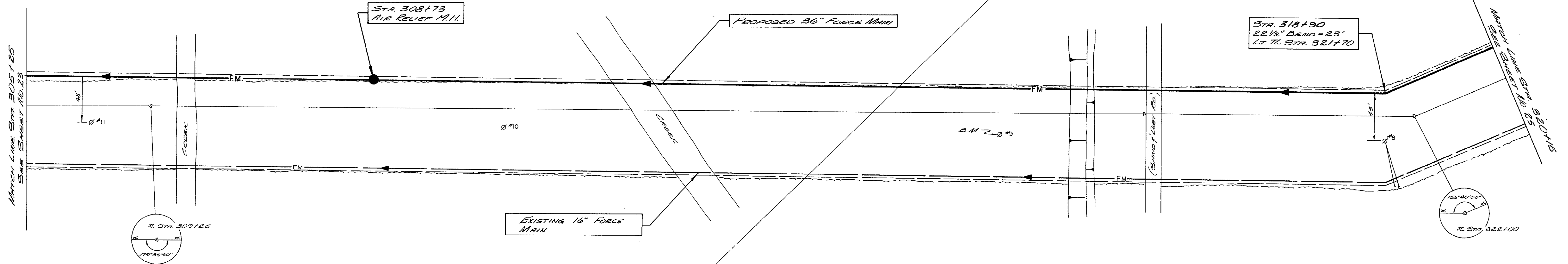
20-204-023196

PLAN
 SURVEYED
 NOTE BOOK
 PLOTTED
 ALIGNMENT CHECKED
 NO. 41 OF 41

PROFILE
 SURVEYED
 NOTE BOOK
 PLOTTED
 8 IN. VERTICAL
 STRUCTURE NOTATIONS CHECKED
 NO. 41 OF 41



(INTERNATIONAL PAPER CO.)

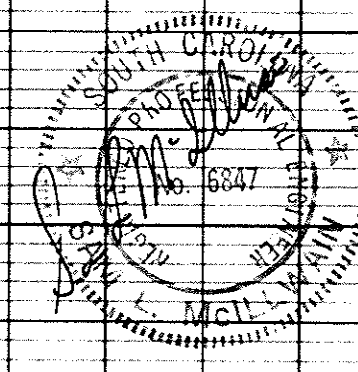
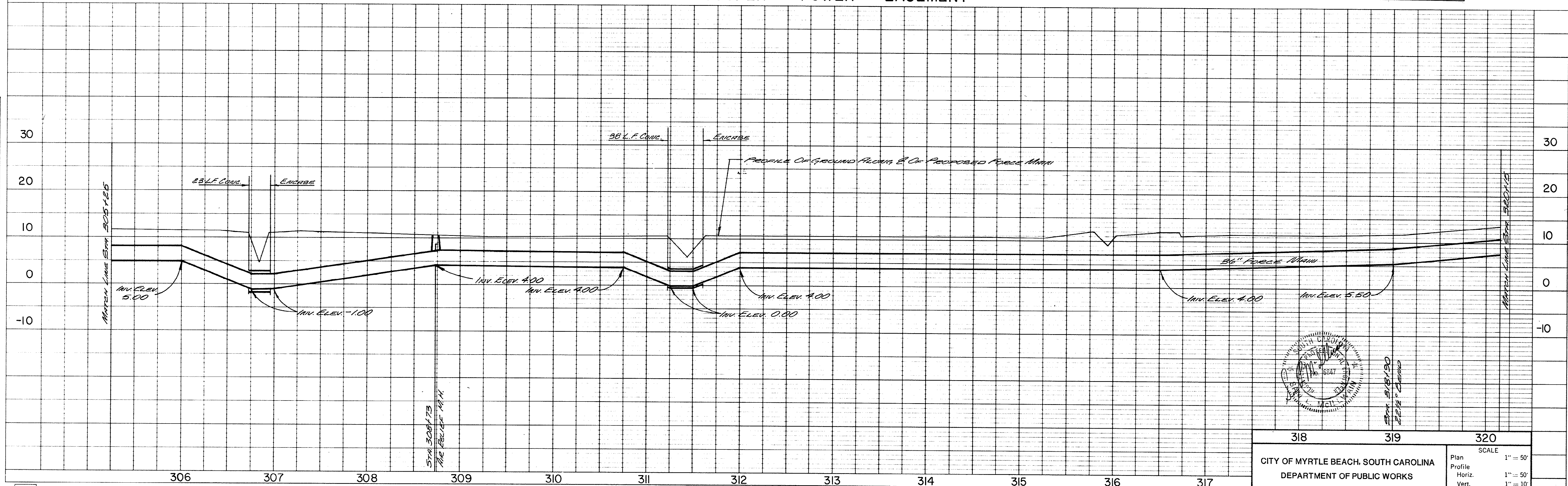


(LEE GUY III & ROBERT G. MACE)

B.M. - R.R. SPIKE IN RR #9
 ELEV. 12.66

NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

SANTEE COOPER POWER EASEMENT



DATE: 06/18/90
 BY: J.E.M.

318	319	320
CITY OF MYRTLE BEACH, SOUTH CAROLINA DEPARTMENT OF PUBLIC WORKS		
SCALE Plan 1" = 50' Profile 1" = 50' Horiz. 1" = 50' Vert. 1" = 10'		

CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

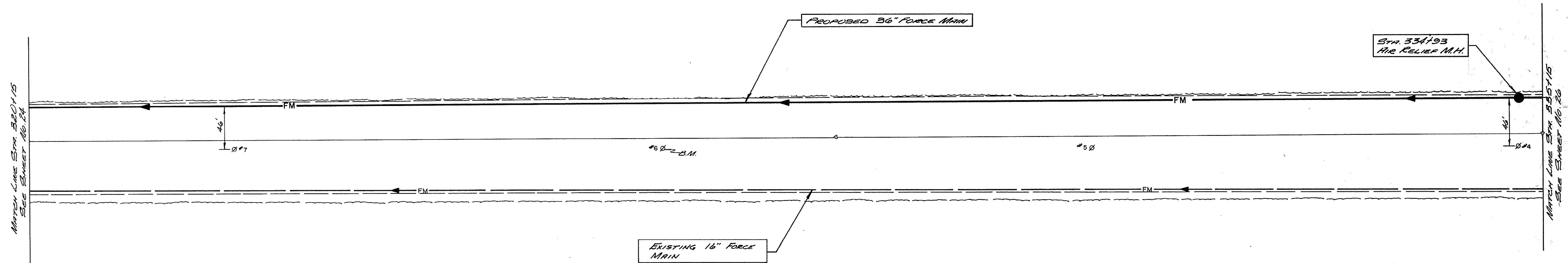
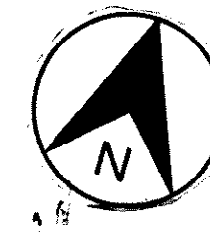
SHEET 24 OF 44 SHEETS

78284

20-204-024/46

PLAN
 SURVEYED BY DATE
 NOTED BY DATE
 NOTE BOOK No.
 RT. OF WAY CHECKED

PROFILE
 SURVEYED BY DATE
 NOTED BY DATE
 NOTE BOOK No.
 STRUCTURE NOTATIONS CHECKED

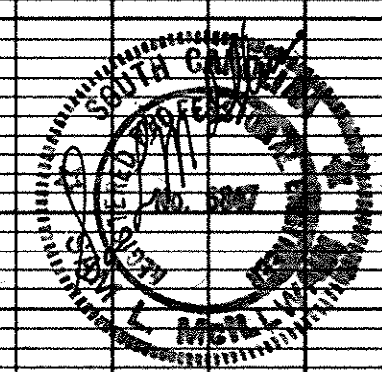
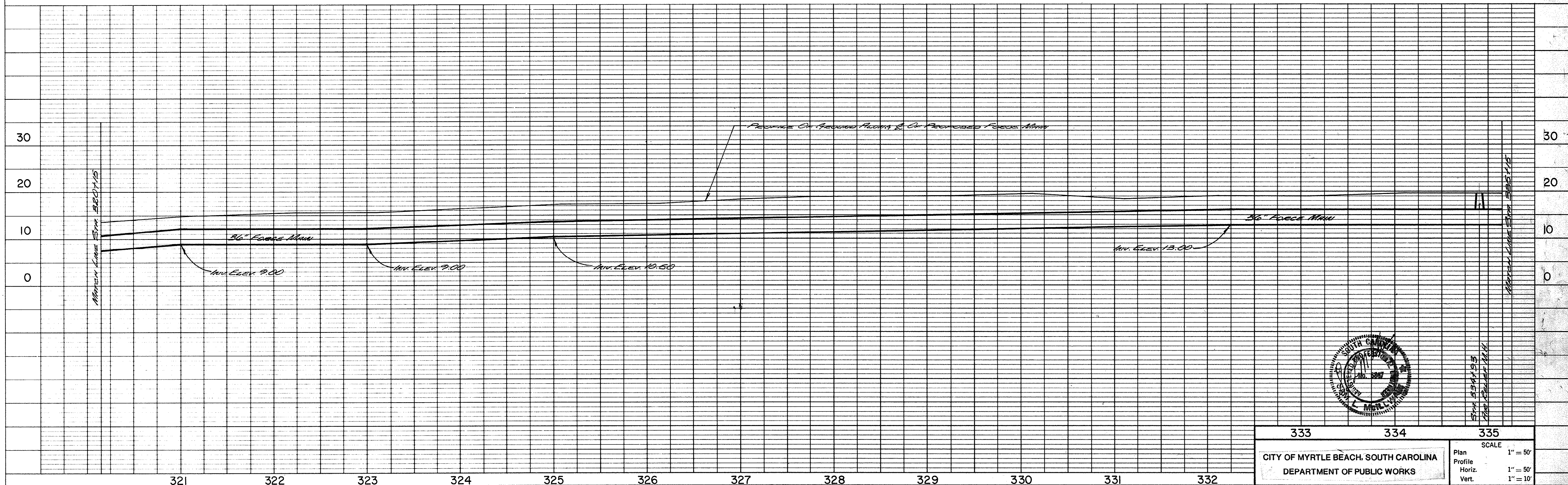


B.M. - R.R. SPIKE IN PP#6
 Elev. 19.48

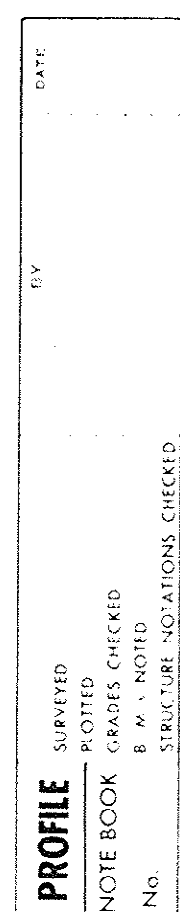
(LEE GUY III & ROBERT T. MACE)

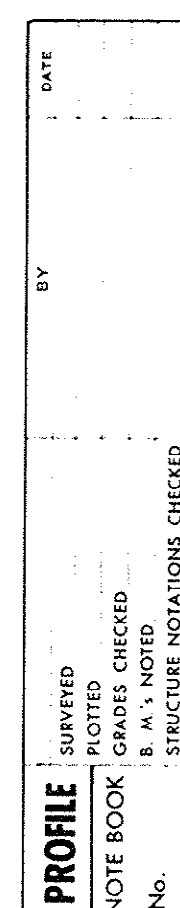
NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

SANTEE COOPER POWER EASEMENT



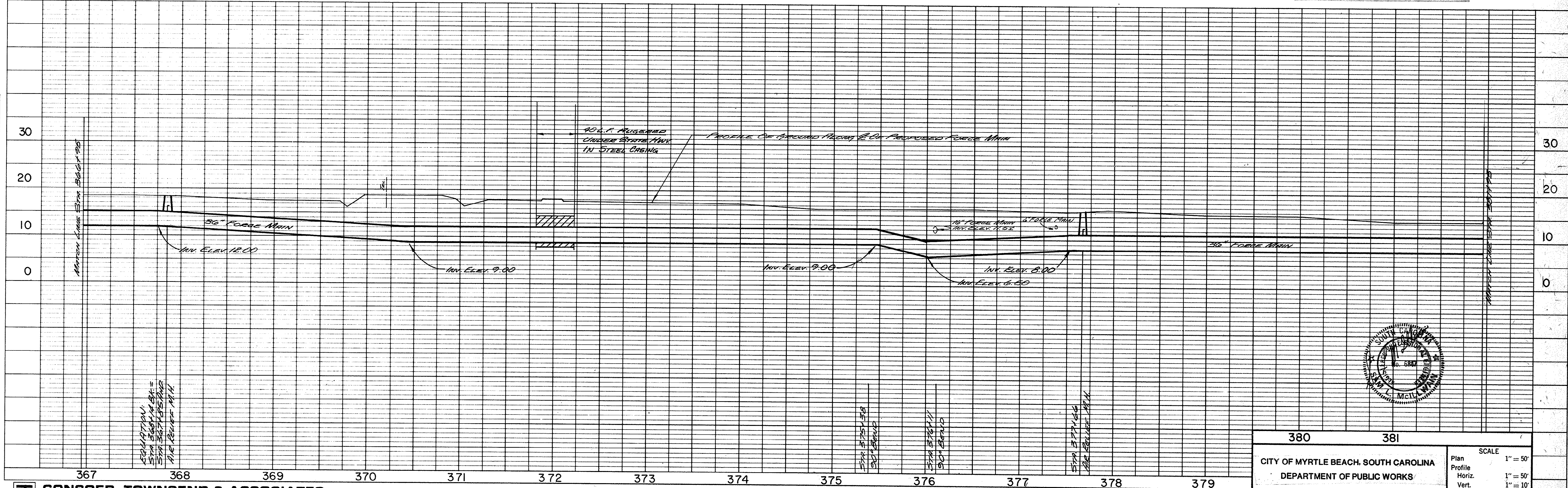
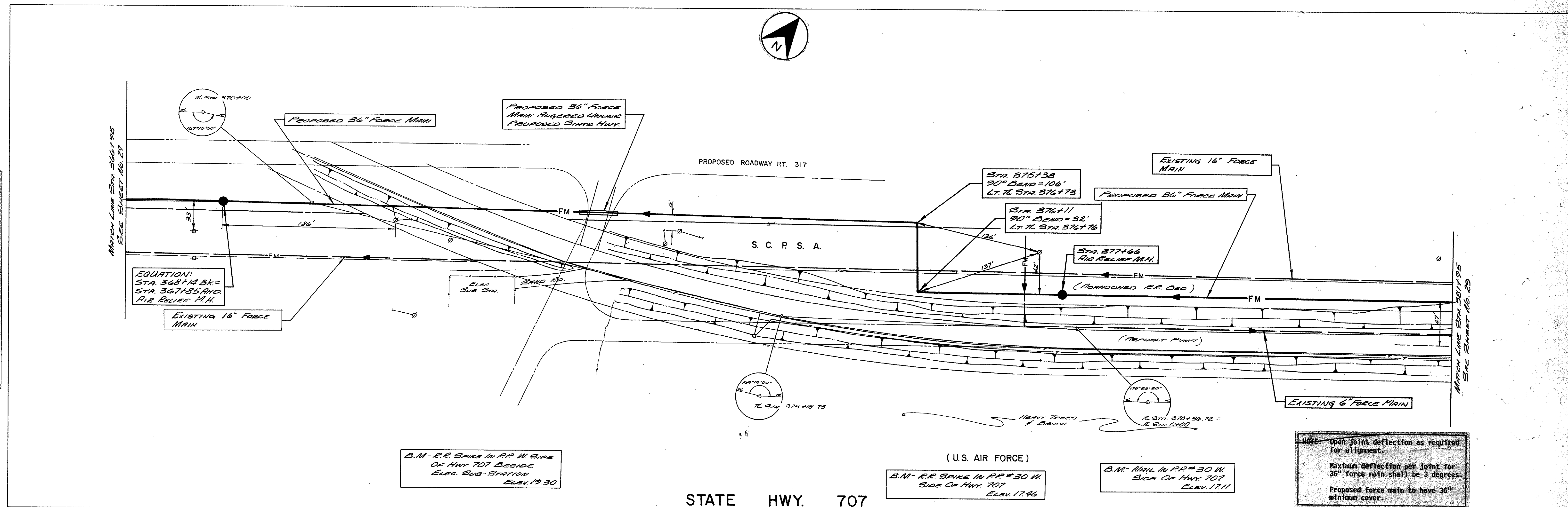
20-204-025/46





PLAN
 SURVEYED
 NOTE BOOK
 DATE
 BY
 NO.

PROFILE
 SURVEYED
 NOTE BOOK
 DATE
 BY
 NO.



CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

380 381

CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

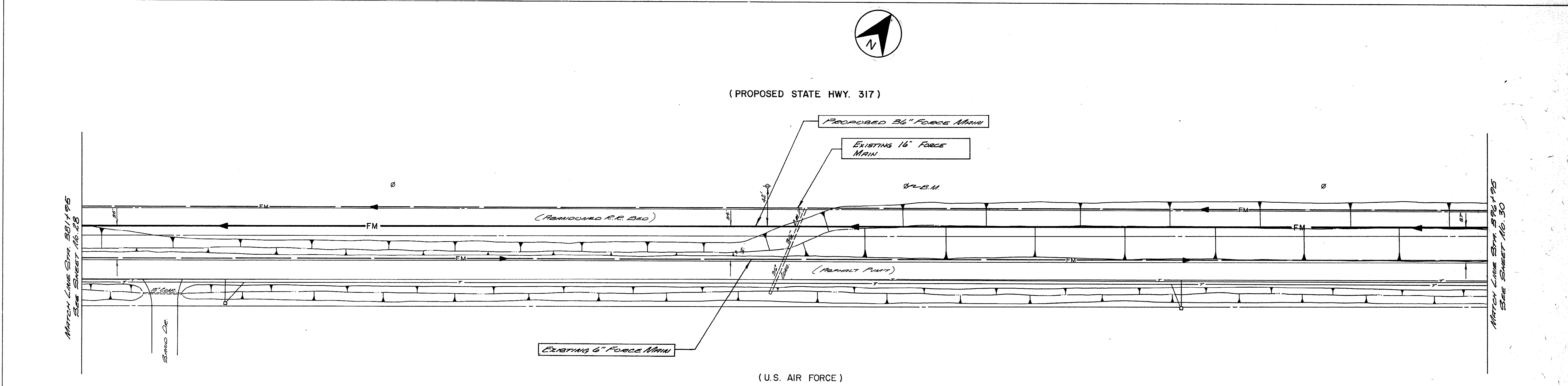
Plan SCALE 1" = 50'
 Profile 1" = 50'
 Horiz. 1" = 50'
 Vert. 1" = 10'

SHEET 28 OF 44 SHEETS 78284

20-204-028/46

PLAN
 SURVEYED BY DATE
 NOTE BOOK GRADES CHECKED
 E. A. V. NOTED
 STRUCTURE NOTATIONS CHECKED
 No.

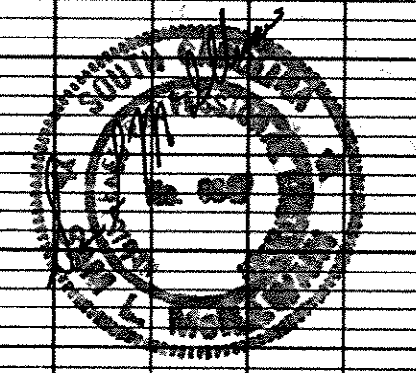
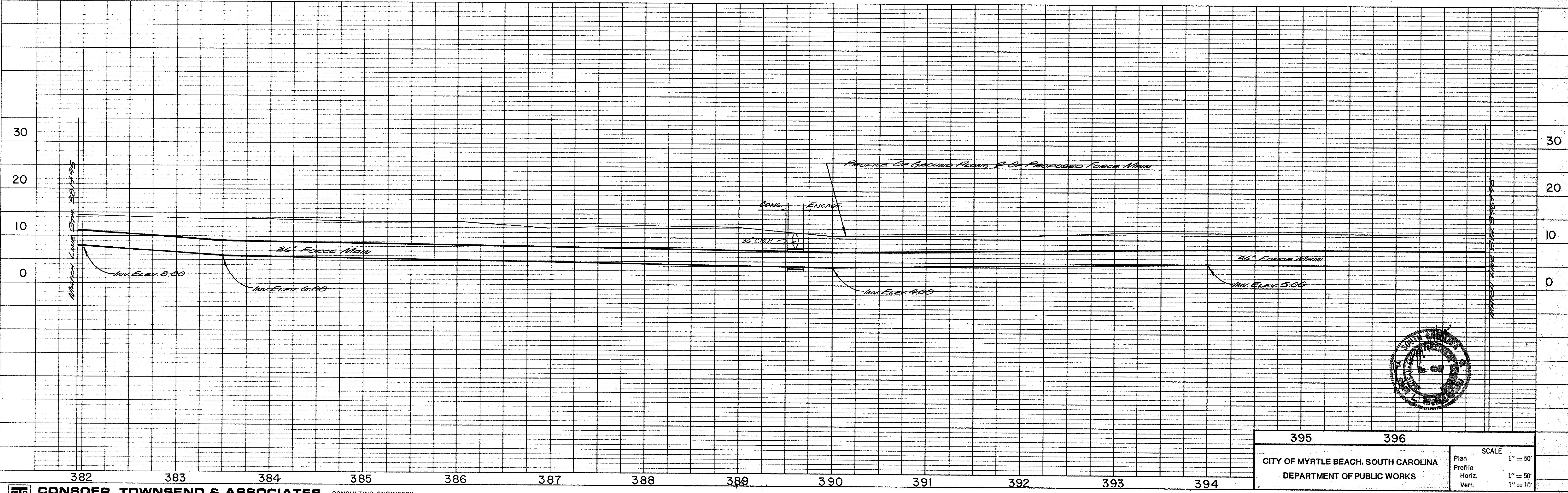
PROFILE
 SURVEYED BY DATE
 NOTE BOOK GRADES CHECKED
 E. A. V. NOTED
 STRUCTURE NOTATIONS CHECKED
 No.



STATE HWY. 707

B.M. - R.R. SPIKE IN S. FACE OF
 R.R. S. SIDE HWY. 707
 ELEV. 11.72

NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover under roadway and 30" minimum cover outside roadway.



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 NASHVILLE, TENNESSEE

395 396

CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS

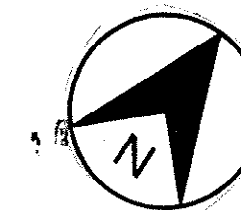
SCALE
 Plan 1" = 50'
 Profile 1" = 50'
 Horiz. 1" = 10'

SHEET 29 OF 44 SHEETS 78284

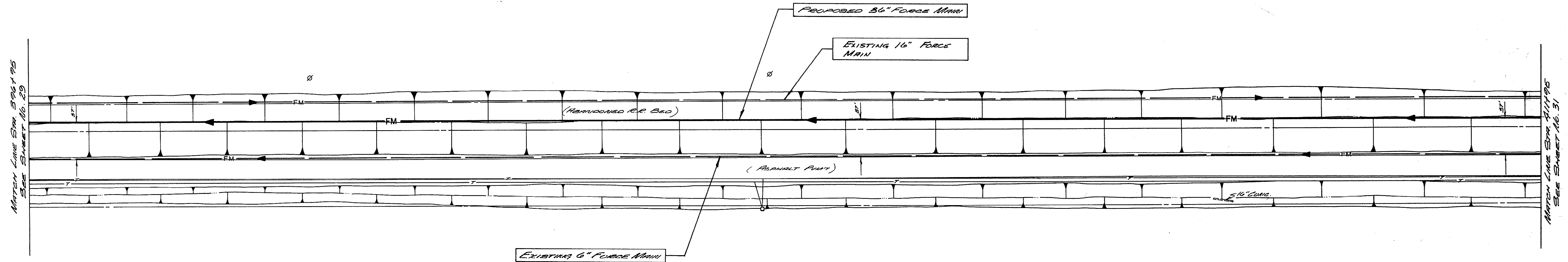
20-204-029/46

PLAN	DATE	BY	DATE
	SURVISED	NOTED	ALIGNED
	NOTE BOOK	NO. 1	NO. 2
	NO.		

PROFILE	DATE	BY	DATE
	SURVISED	NOTED	ALIGNED
	NOTE BOOK	NO. 1	NO. 2
	NO.		



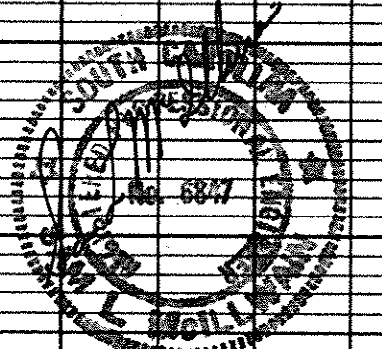
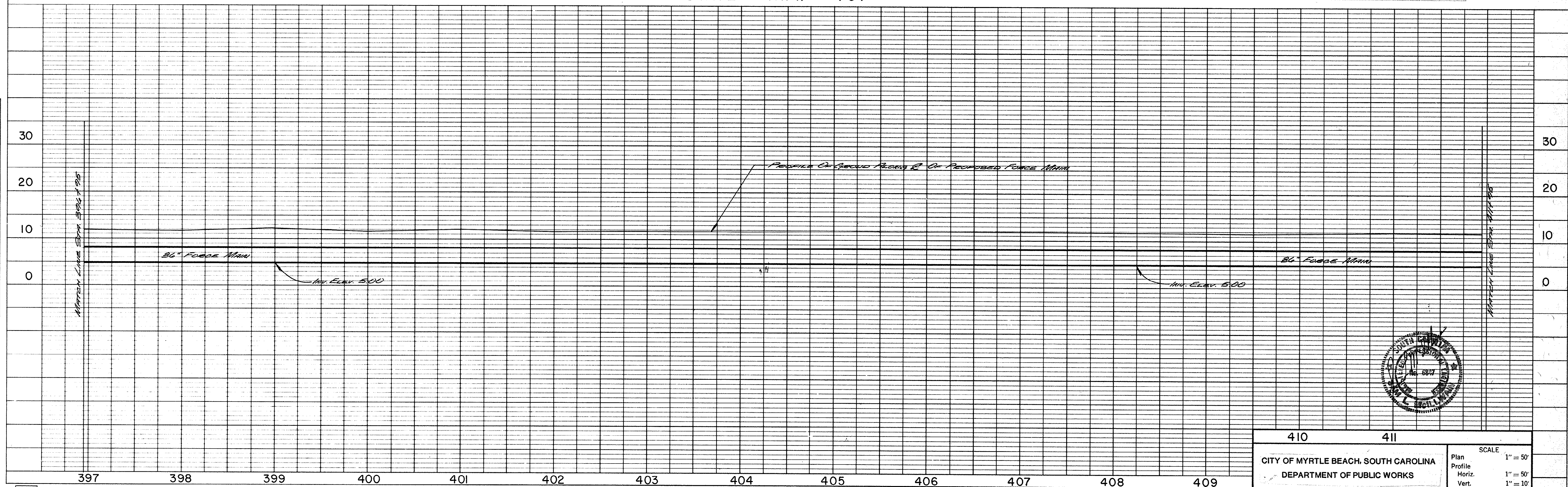
(PROPOSED STATE HWY. 317)



(U.S. AIR FORCE)

STATE HWY. 707

NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover under roadway and 30" minimum cover outside roadway.



CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
NASHVILLE, TENNESSEE

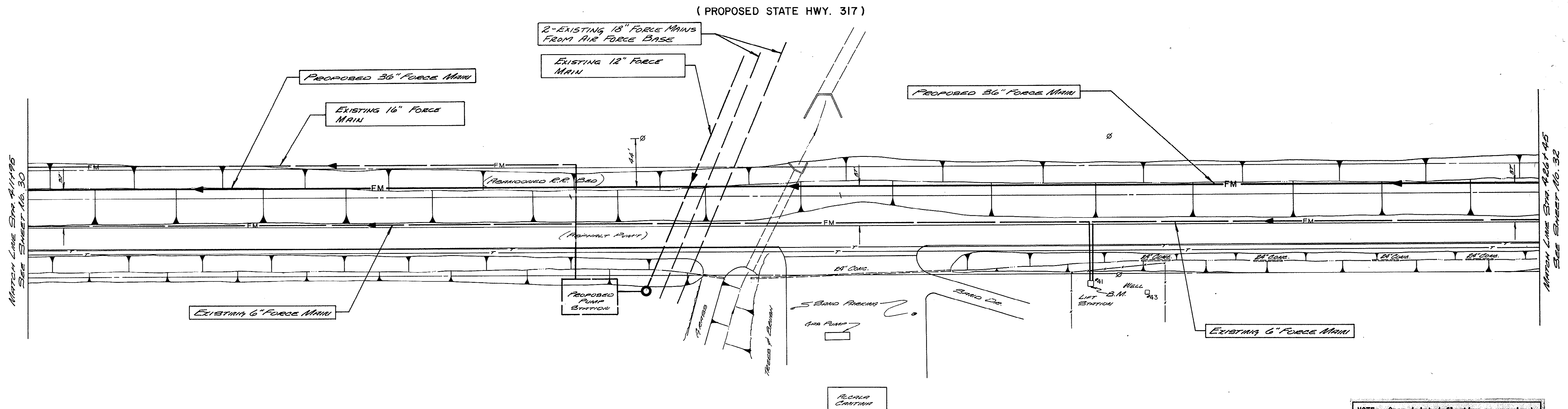
410	411	SCALE
CITY OF MYRTLE BEACH, SOUTH CAROLINA		Plan 1" = 50'
DEPARTMENT OF PUBLIC WORKS		Profile 1" = 50'
		Vert. 1" = 10'

SHEET 30 OF 44 SHEETS 78284

20-204-030/46

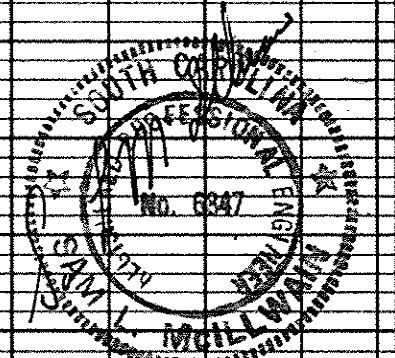
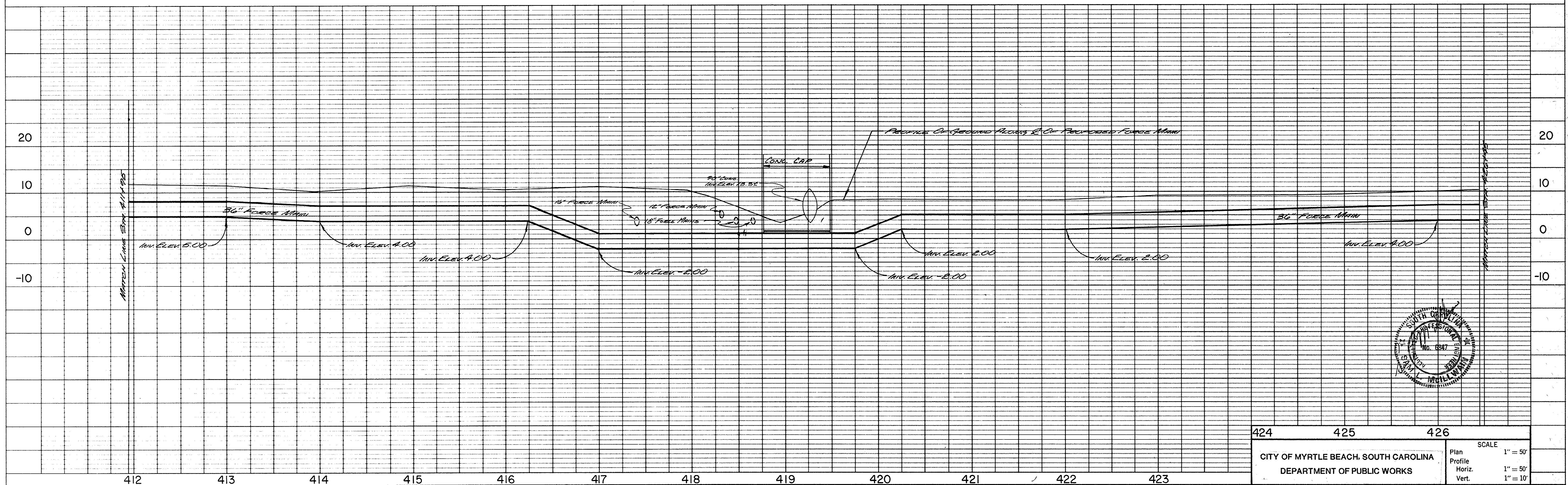
PLAN
SURVEYED
NOTED
NOTE BOOK ALIGNMENT CHECKED
No. 17 OF WAY CHECKED

PROFILE
SURVEYED
NOTED
NOTE BOOK GRADES CHECKED
No. 17 OF WAY CHECKED



STATE HWY. 707

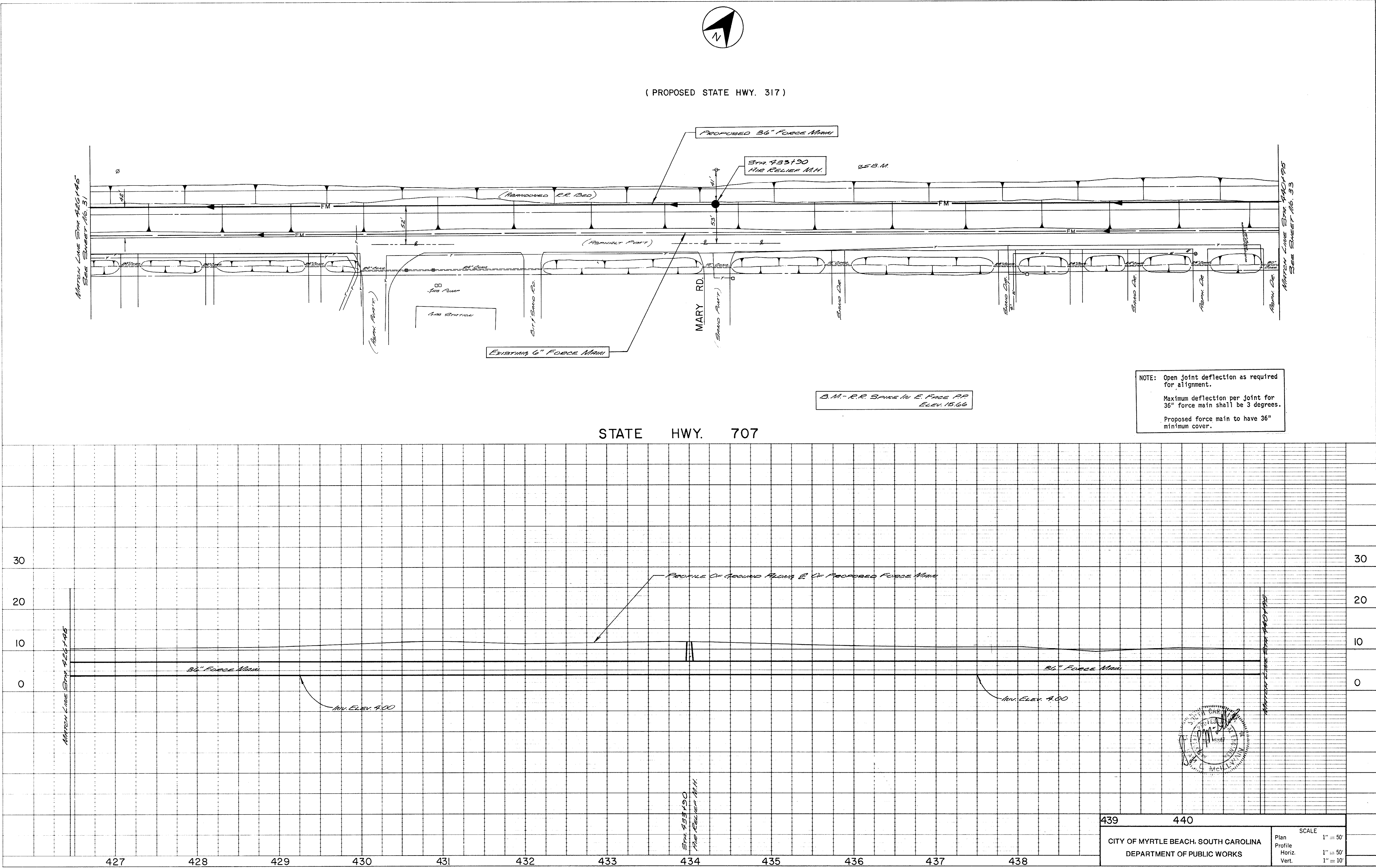
NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.



424	425	426
CITY OF MYRTLE BEACH, SOUTH CAROLINA DEPARTMENT OF PUBLIC WORKS		
SHEET 31 OF 44 SHEETS		
SCALE 1" = 50'		
1" = 50'		
1" = 10'		

PLAN
 DATE
 BY
 SURVISED
 CHECKED
 NOTE BOOK
 NO.

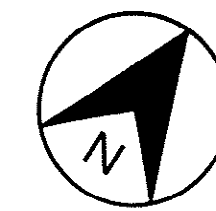
PROFILE
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 BY
 SURVISED
 CHECKED
 NOTE BOOK
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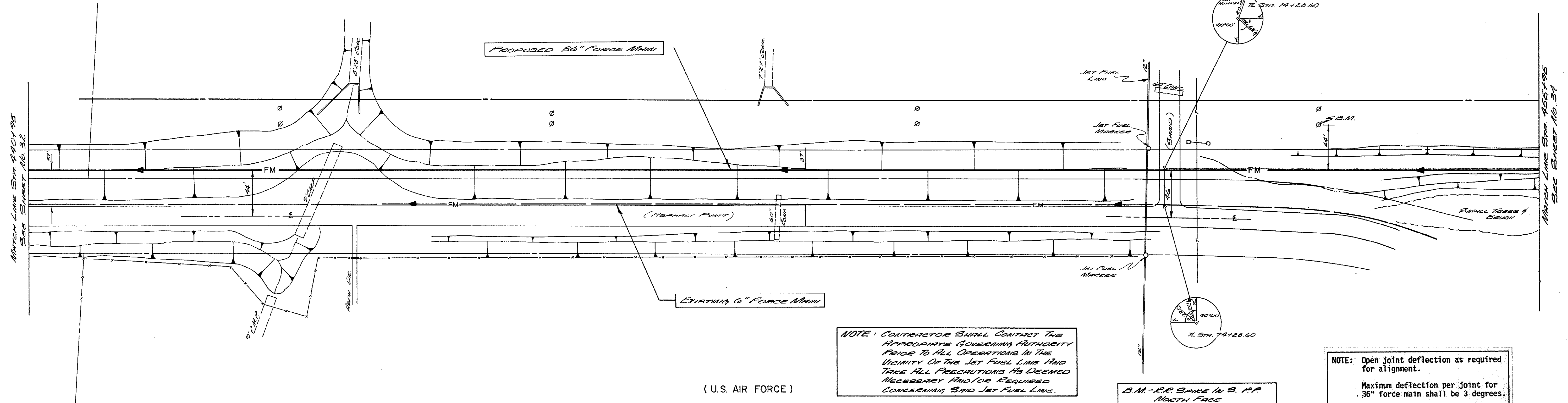
20-204-032/46

PLAN
 SURVEYED
 PLOTTED
 NOTE BOOK GRADES CHECKED
 NO. 1
 DATE

PROFILE
 SURVEYED
 PLOTTED
 NOTE BOOK GRADES CHECKED
 NO. 1
 DATE



(PROPOSED STATE HWY. 317)



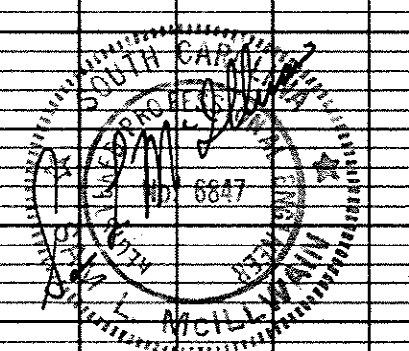
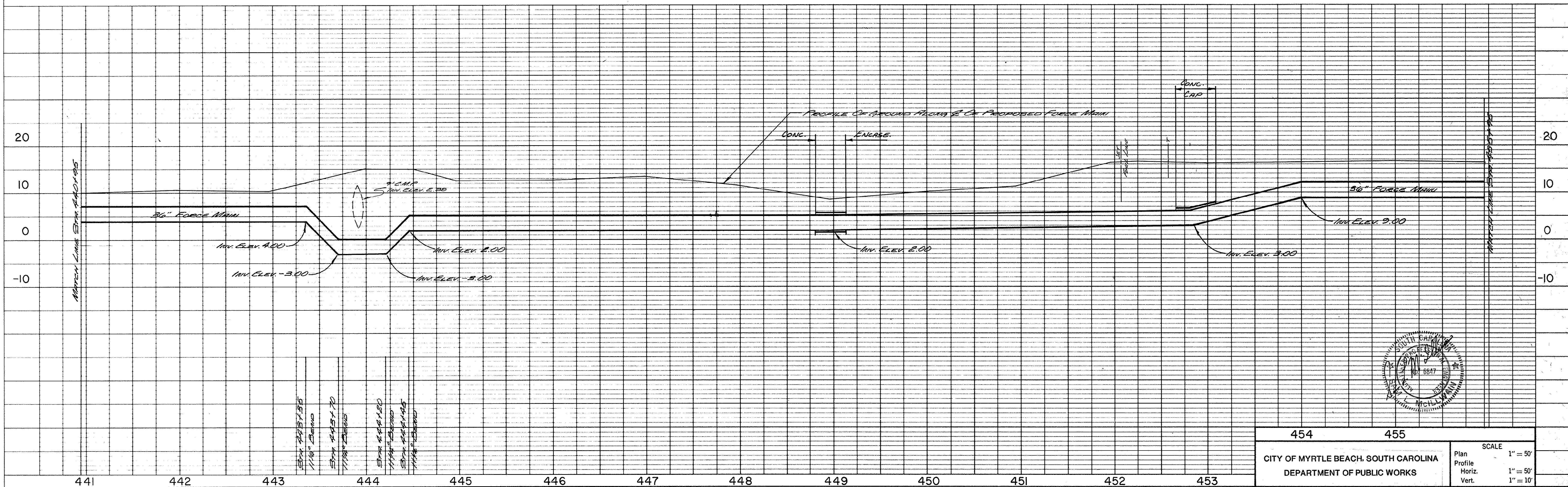
(U.S. AIR FORCE)

STATE HWY. 707

NOTE: CONTRACTOR SHALL CONTACT THE APPROPRIATE GOVERNING AUTHORITY PRIOR TO ALL OPERATIONS IN THE VICINITY OF THE JET FUEL LINE AND TAKE ALL PRECAUTIONS AS DEEMED NECESSARY AND/OR REQUIRED CONCERNING SAID JET FUEL LINE.

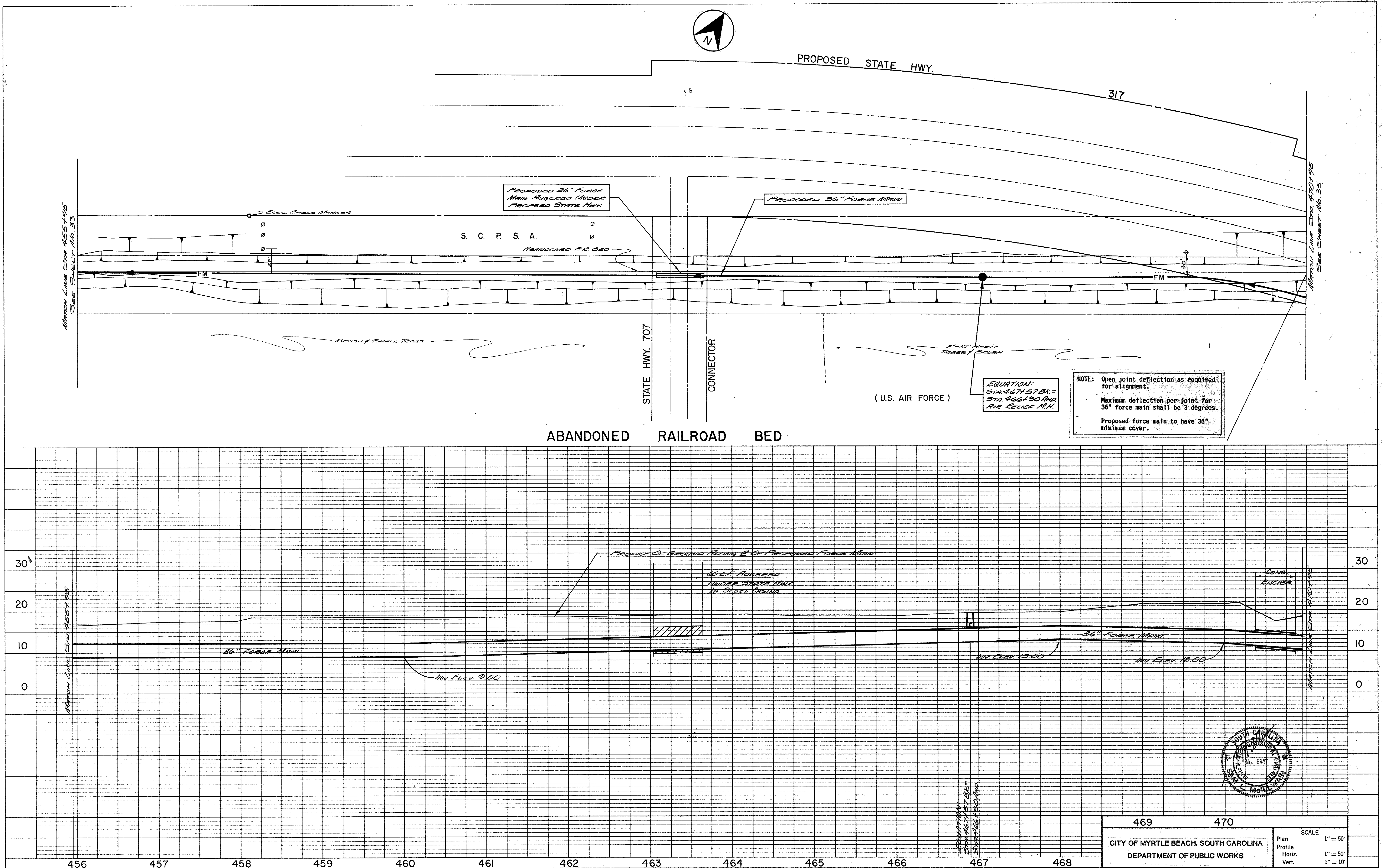
B.M. - R.R. SPIKE IN S. P.P. NORTH FACE ELEV. 14.06

NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.



PLAN	DATE	BY
	NOTED	NOTED
	NOTE BOOK	ALIGNMENT CHECKED
	No.	RE OF WAY CHECKED

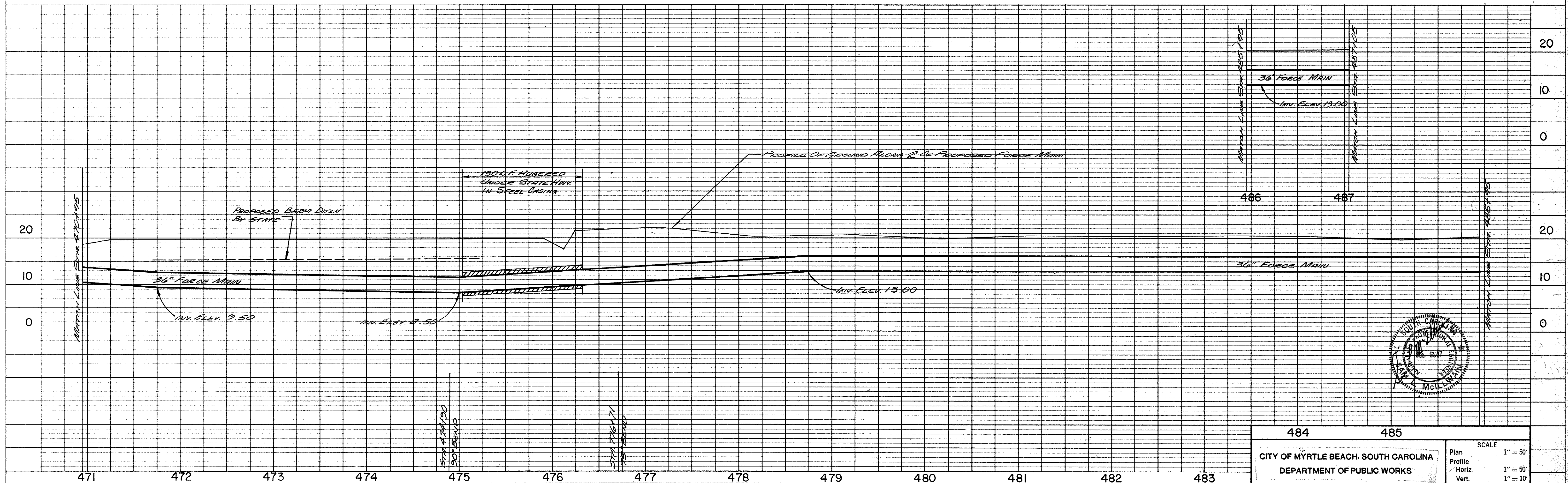
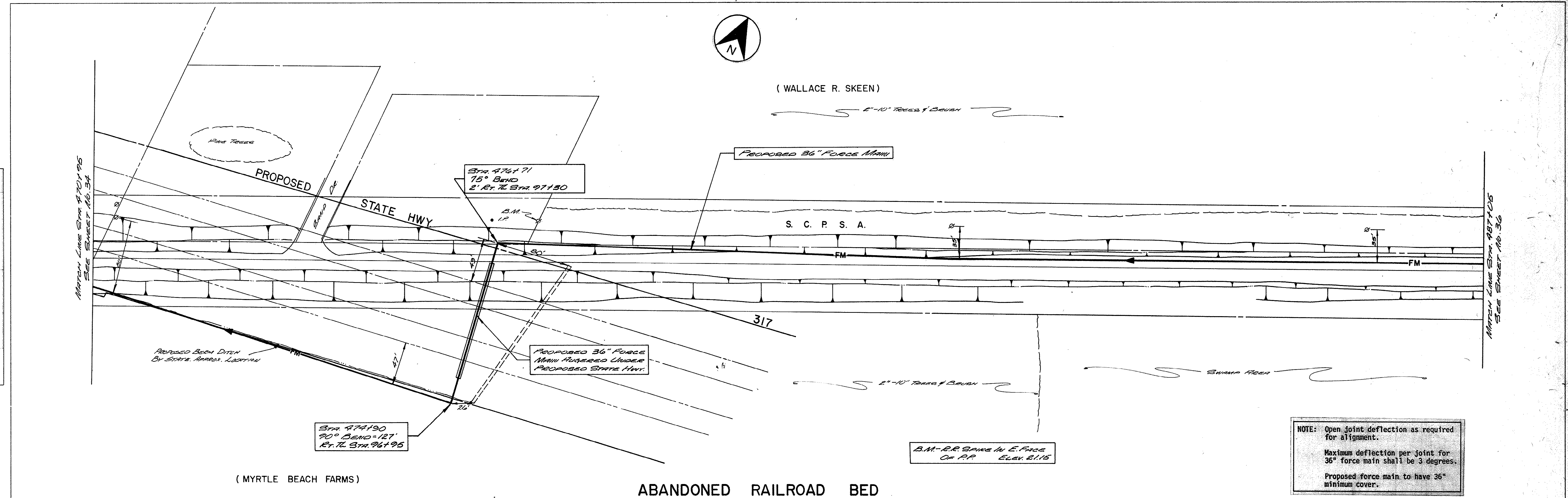
PROFILE	DATE	BY
	NOTED	NOTED
	NOTE BOOK	GRADES CHECKED
	No.	STRUCTURE NOTATIONS CHECKED



20-204-034/46

PLAN
 SURVEYED
 NOTED
 NOTE BOOK AUGMENT CHECKED
 BY DATE
 No.

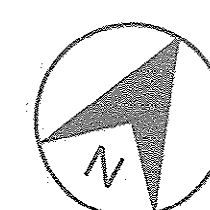
PROFILE
 SURVEYED
 NOTED
 NOTE BOOK GRADES CHECKED
 BY DATE
 No.



20-204-035/46

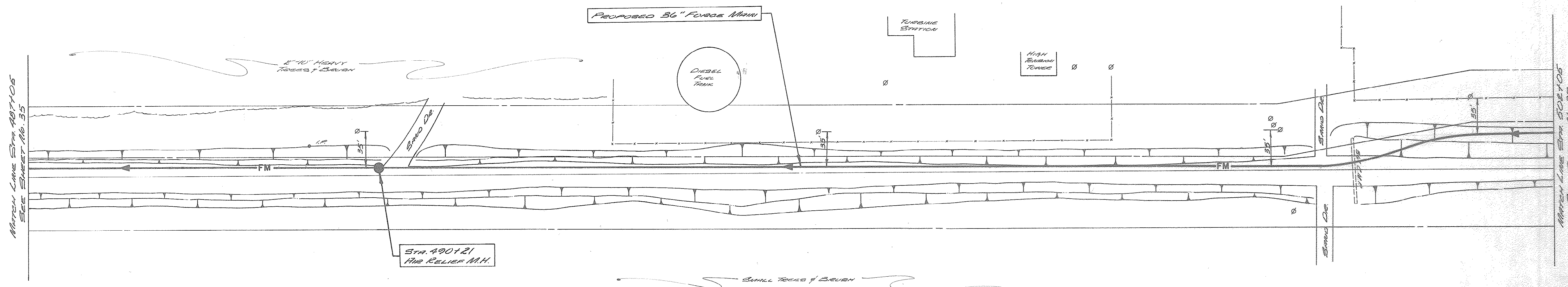
PLAN	SURVEYED	DATE
	NOTE BOOK	BY
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	

PROFILE	SURVEYED	DATE
	NOTE BOOK	BY
	8. M. 1. H. 0. B.	
	STRUCTURE NOTATIONS CHECKED	



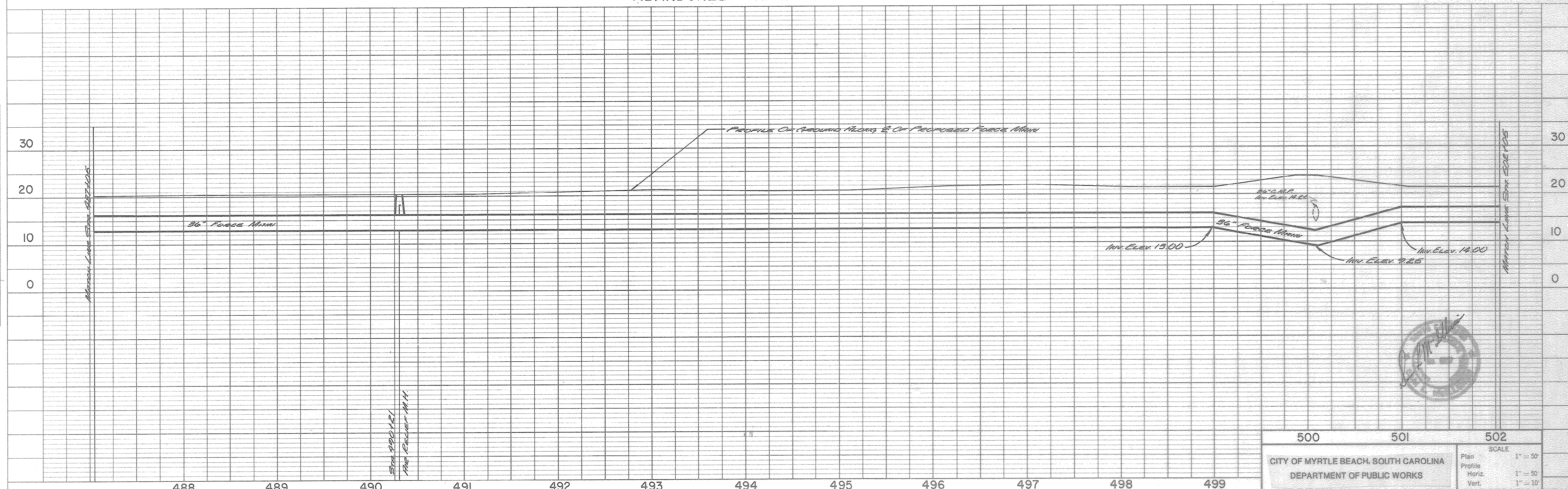
(WALLACE R. SKEEN)

SEE SHT. 048/048
FOR RELOCATED
SECTION



NOTE: Open joint deflection as required for alignment.
Maximum deflection per joint for 36" force main shall be 3 degrees.
Proposed force main to have 36" minimum cover.

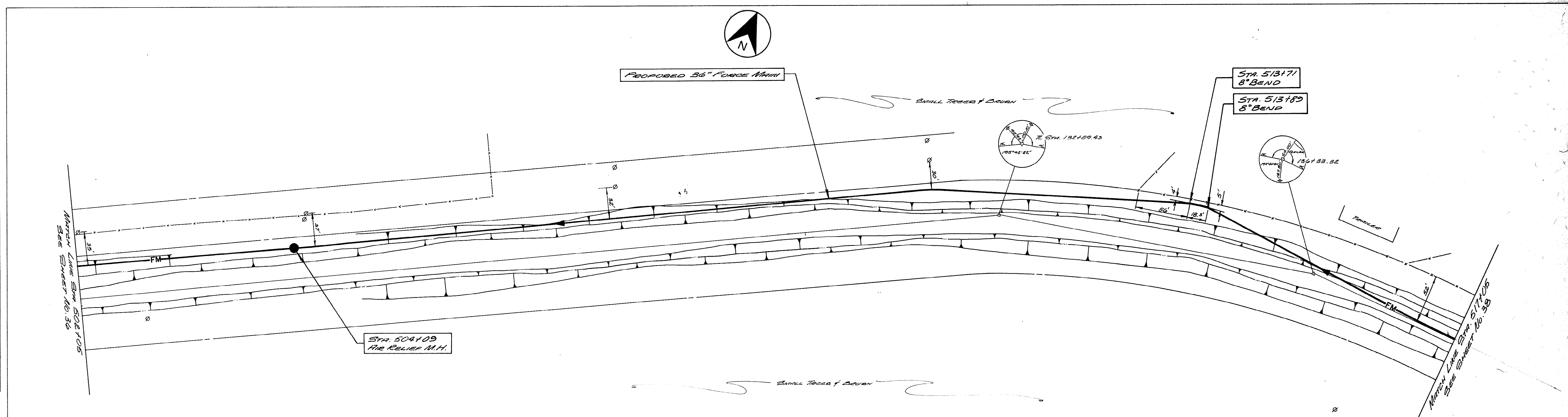
ABANDONED RAILROAD BED



20-204-036/46

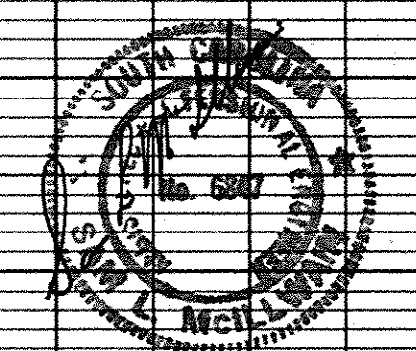
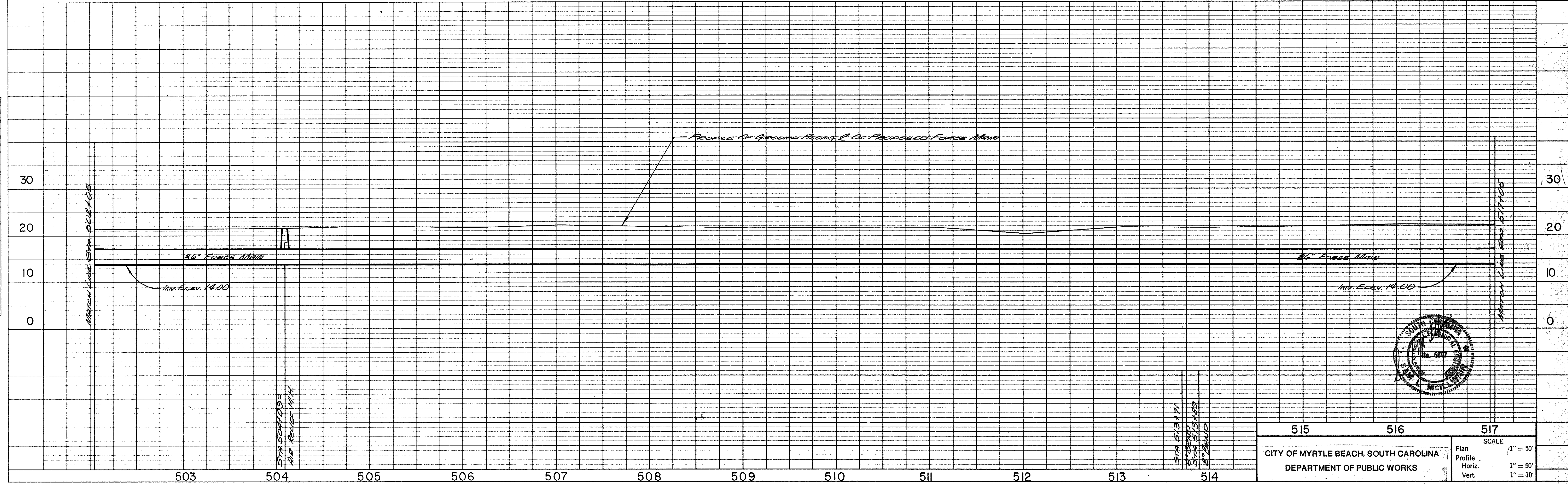
PLAN
 SUBMITTED BY DATE
 NOTE BOOK, AUGMENT, CHECKED
 NO. 11, 12 WAY CHECKED

PROFILE
 SUBMITTED BY DATE
 NOTE BOOK, GRADE, CHECKED
 NO. 11, 12 NOTED
 STRUCTURE NOTATIONS CHECKED



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

ABANDONED RAILROAD BED

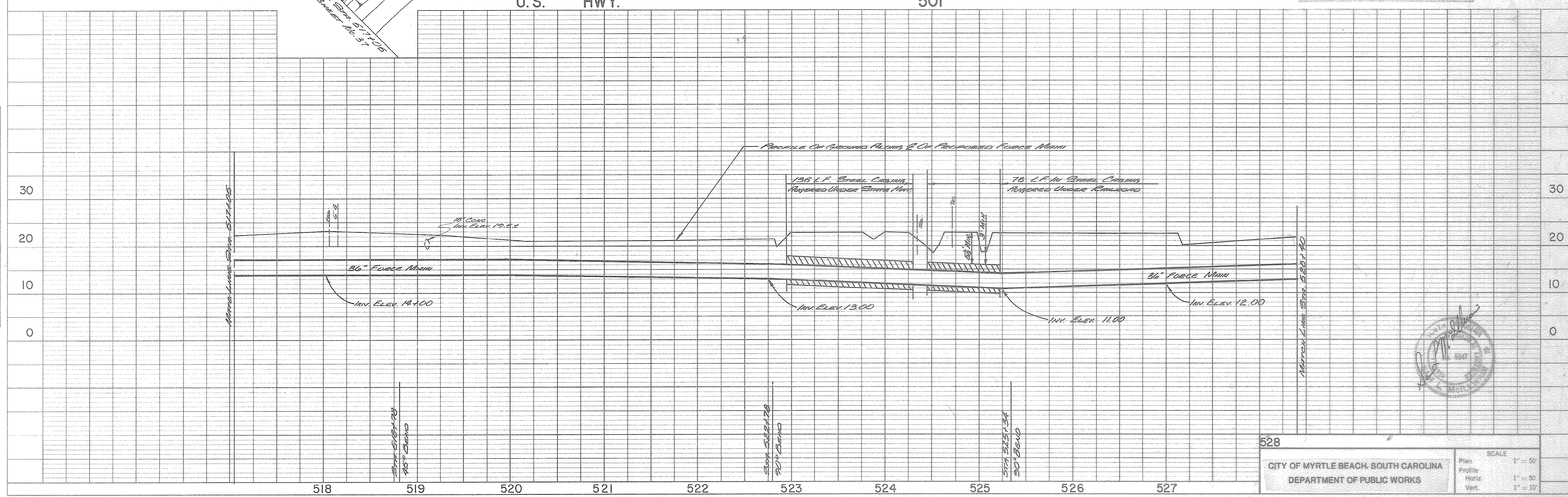
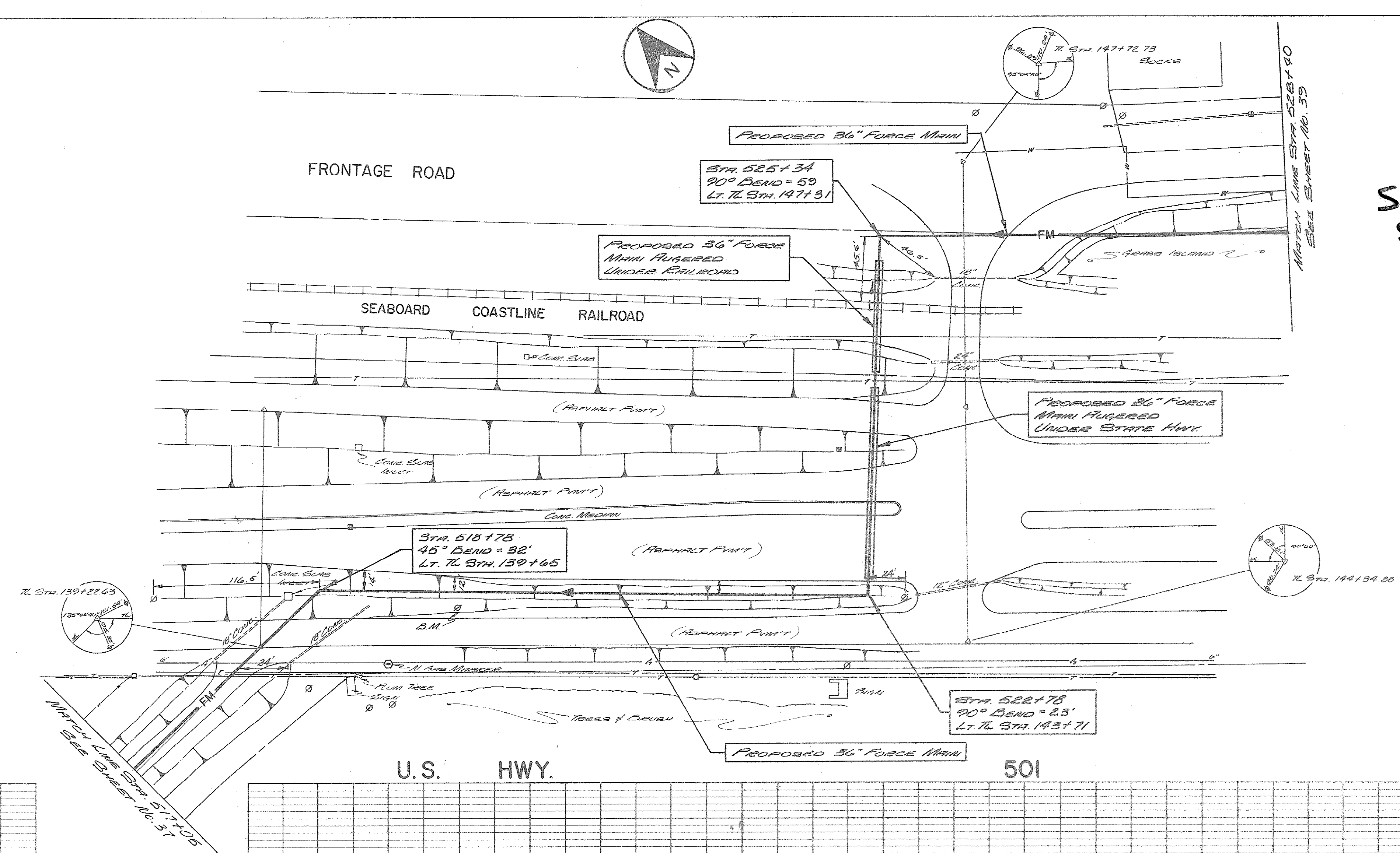


20-204-037/46

PLAN	DATE	BY
	SY	
	NO.	
	BY	
SUPPLEMENTED NOTE BOOK CHECKED BY OF WAY CHECKED		

PROFILE	DATE	BY
	SY	
	NO.	
	BY	
SUPPLEMENTED NOTE BOOK CHECKED BY OF WAY CHECKED		

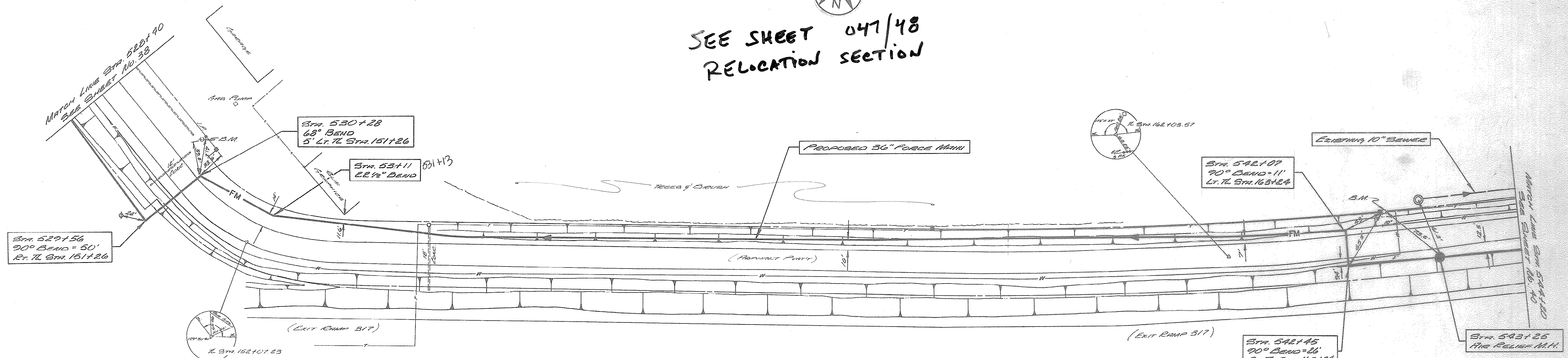
SEE
SHEET 047/048
FOR
RELOCATION
SECTION



DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 NOTE BOOK: _____ CHECKED: _____
 No. _____

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 NOTE BOOK: _____ CHECKED: _____
 No. _____

SEE SHEET 047/48
 RELOCATION SECTION

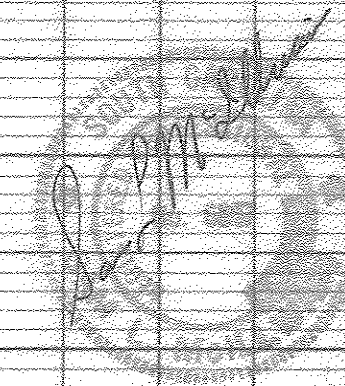
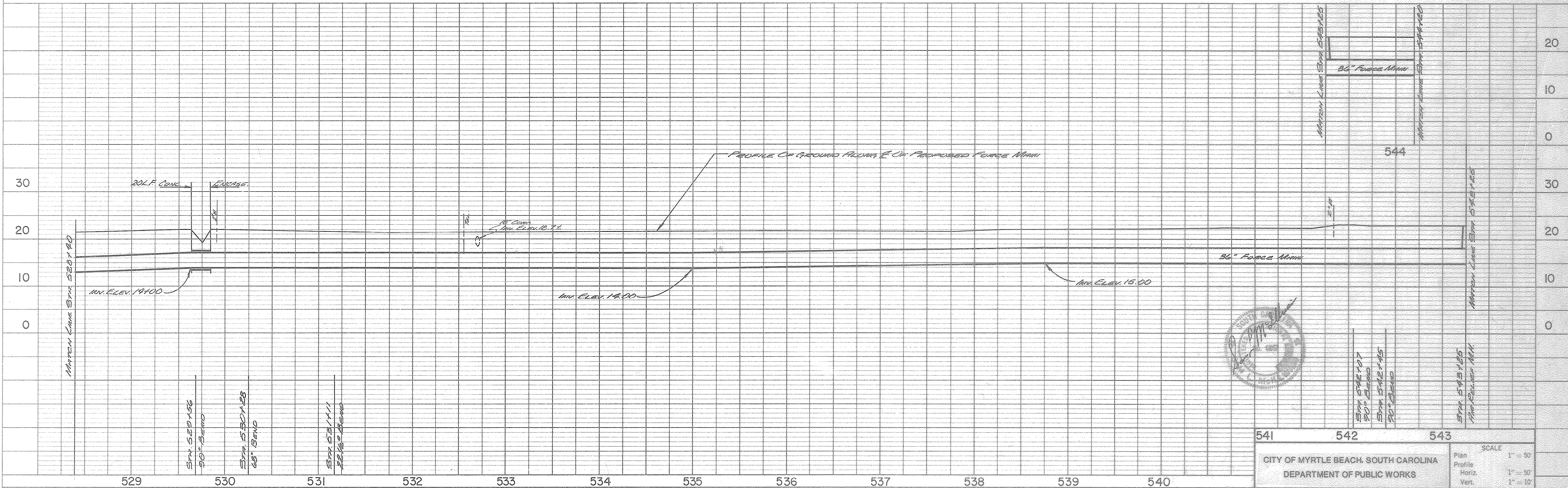


B.M. - R.P. Spike in S. Face of PP
 At S.W. Corner of Sun Graphics
 Elev. 22.04

B.M. - Square Head Bolt
 On Fire Hydrant
 Elev. 23.80

NOTE: Open joint deflection as required
 for alignment.
 Maximum deflection per joint for
 36" force main shall be 3 degrees.
 Proposed force main to have 36"
 minimum cover.

FRONTAGE ROAD



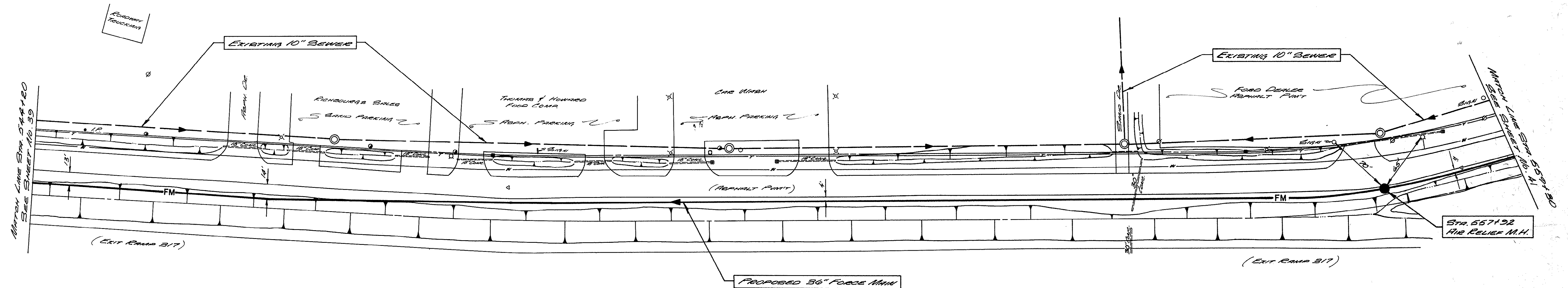
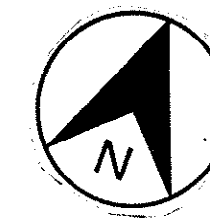
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

CITY OF MYRTLE BEACH, SOUTH CAROLINA
 DEPARTMENT OF PUBLIC WORKS
 SHEET 39 OF 44 SHEETS
 78284
 SCALE: 1" = 50'
 Plan
 Profile
 Horiz.
 Vert.
 1" = 50'
 1" = 10'

20-204-039/46

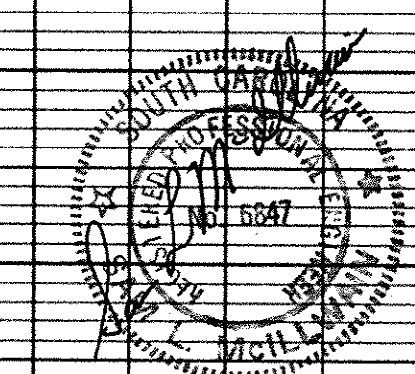
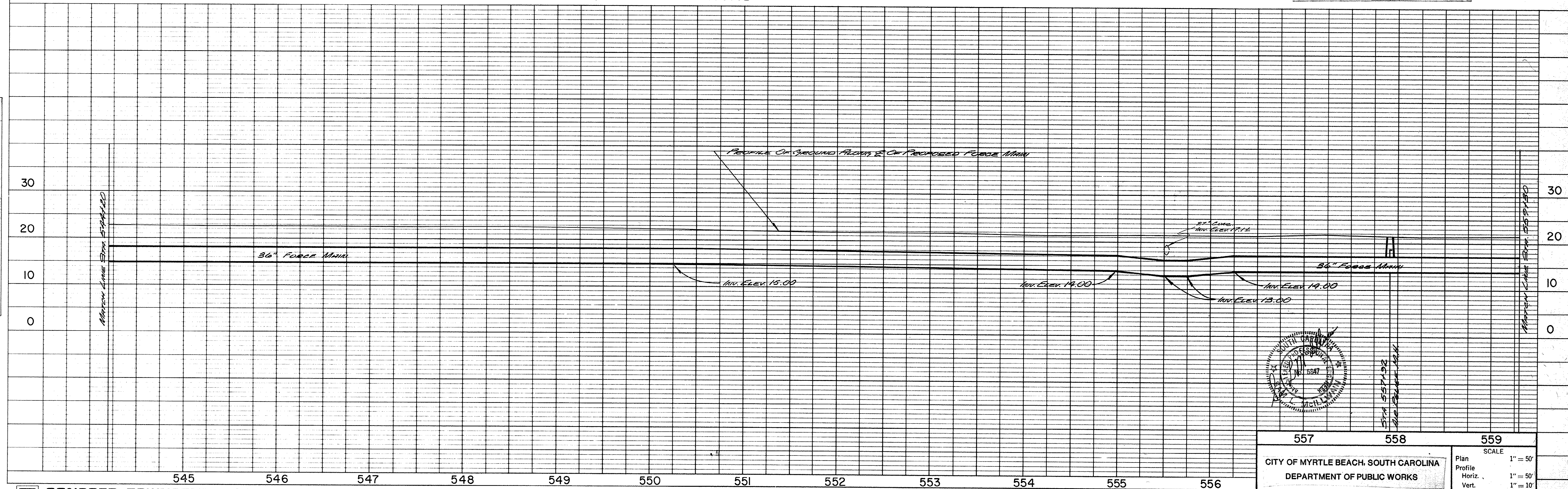
PLAN
 SURVEYED
 PLOTTED
 NOTE BOOK
 NO. 1
 DATE
 BY
 CHECKED
 BY

PROFILE
 SURVEYED
 PLOTTED
 NOTE BOOK
 NO. 1
 DATE
 BY
 CHECKED
 BY



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

FRONTAGE ROAD



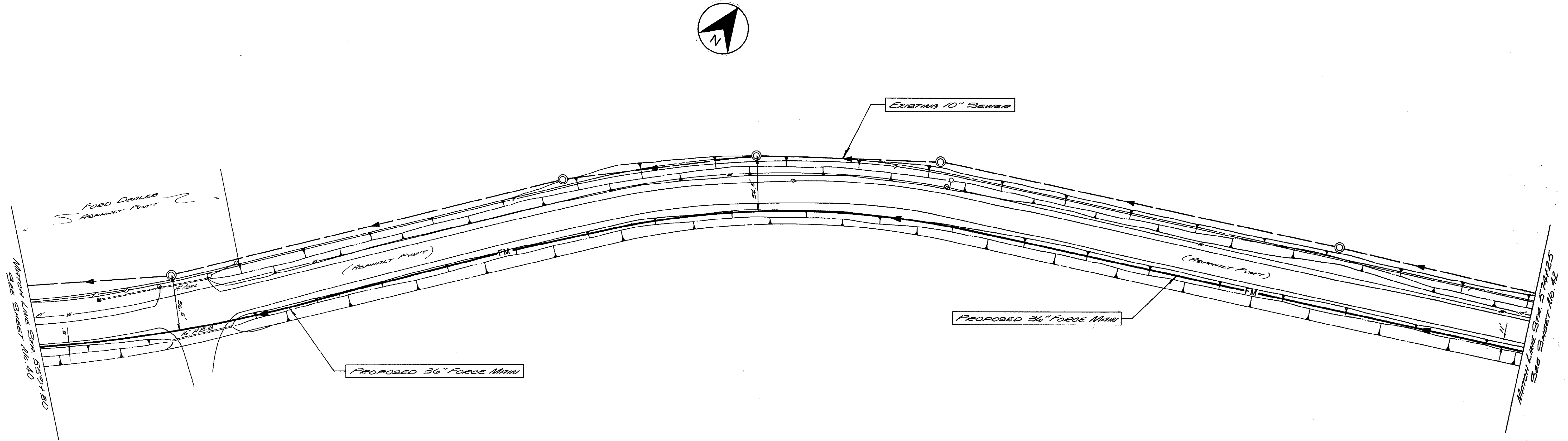
CONSOER, TOWNSEND & ASSOCIATES CONSULTING ENGINEERS
 NASHVILLE, TENNESSEE

557	558	559
CITY OF MYRTLE BEACH, SOUTH CAROLINA DEPARTMENT OF PUBLIC WORKS		
Plan Profile Horiz. Vert.		
SCALE 1" = 50' 1" = 50' 1" = 10'		

SHEET 40 OF 44 SHEETS 78284

20-204-090/46

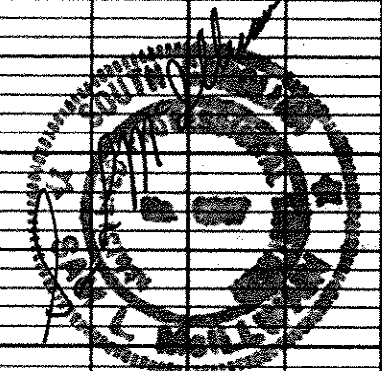
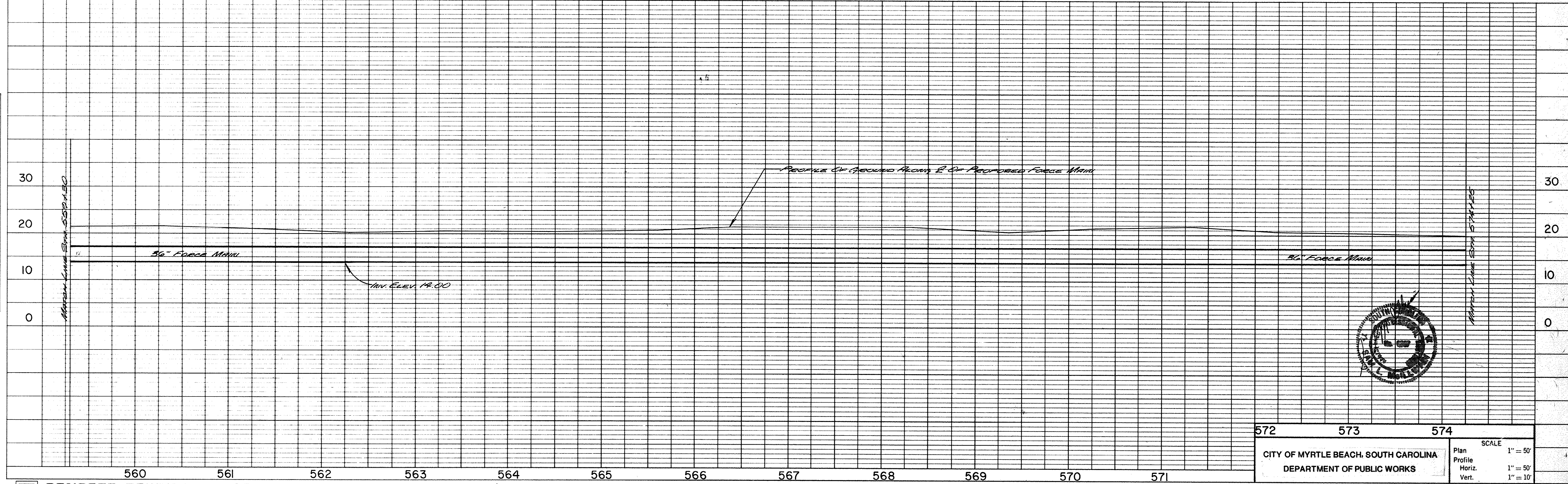
PLAN
 SUBMITTED BY DATE
 NOTE BOOK ALIGNMENT CHECKED
 No. RT. OF WAY CHECKED



NOTE: Open joint deflection as required for alignment.
 Maximum deflection per joint for 36" force main shall be 3 degrees.
 Proposed force main to have 36" minimum cover.

FRONTAGE ROAD

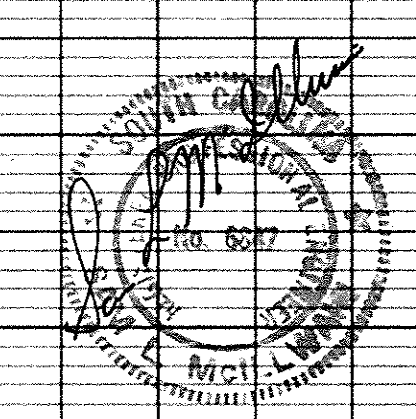
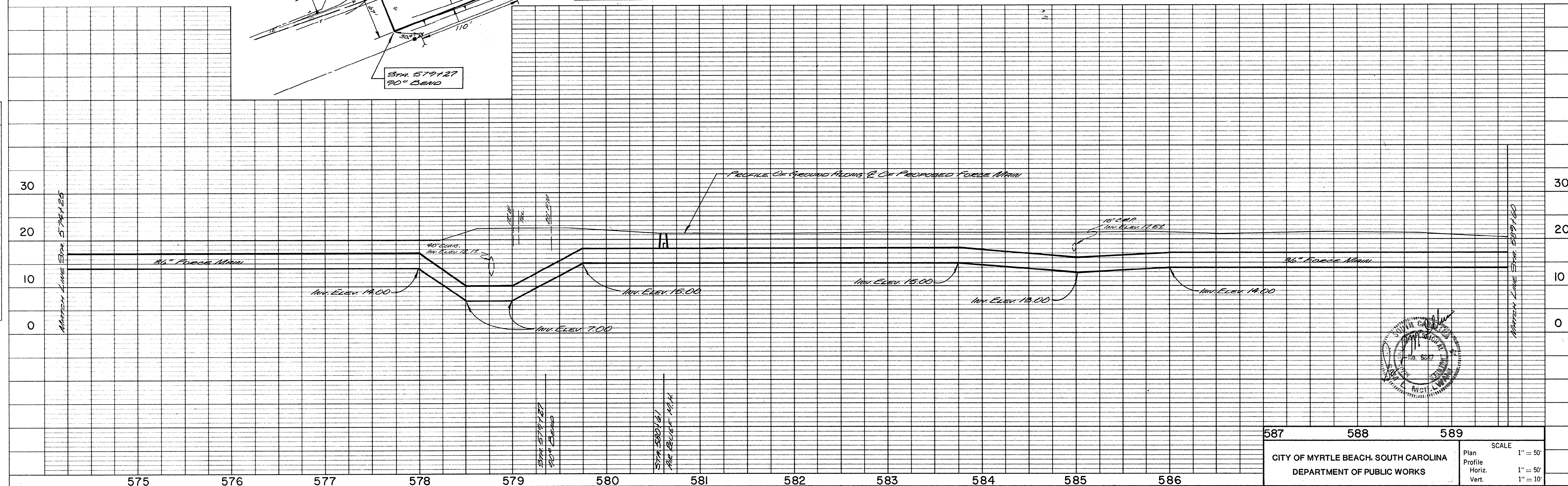
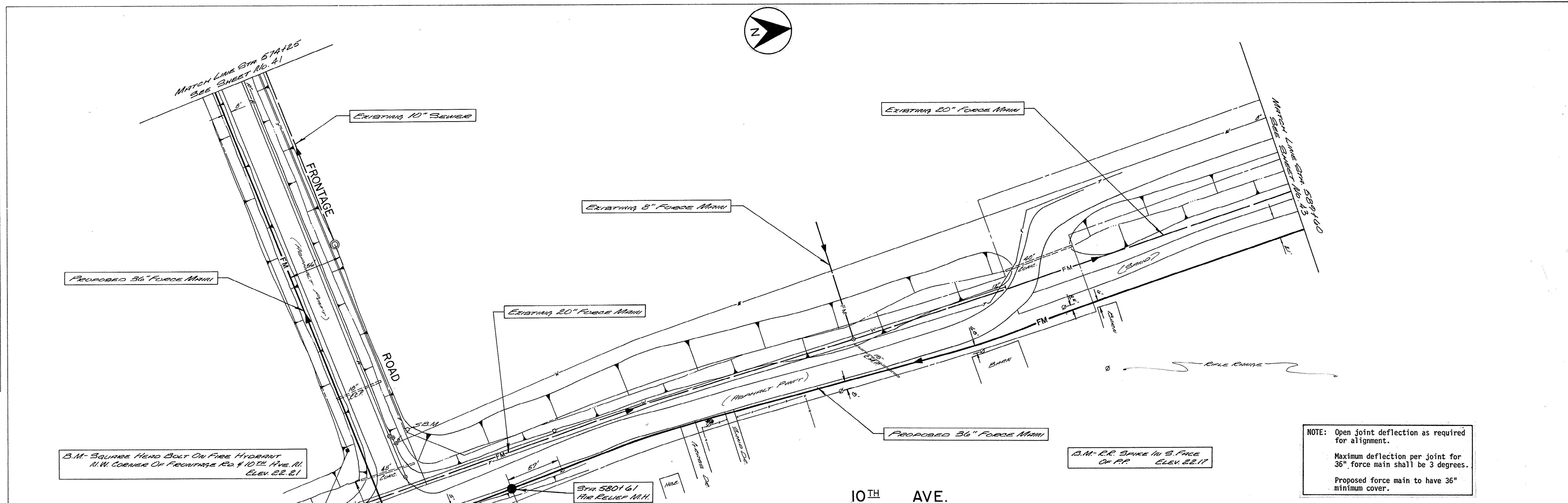
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 SUBMITTED BY DATE
 NOTE BOOK GRADES CHECKED
 No. STRUCTURE NOTATIONS CHECKED



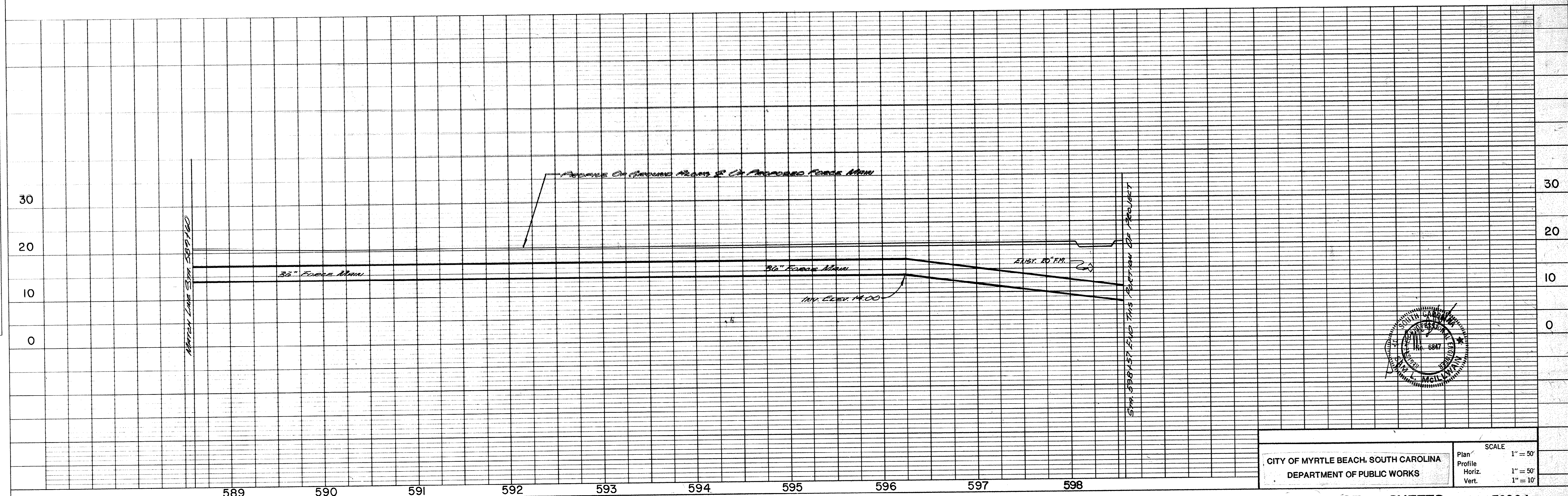
20-204-041/46

PLAN
 SURVEYED
 PLOTTED
 NOTE BOOK ALIGNMENT CHECKED
 #1 OF WAY CHECKED
 No.

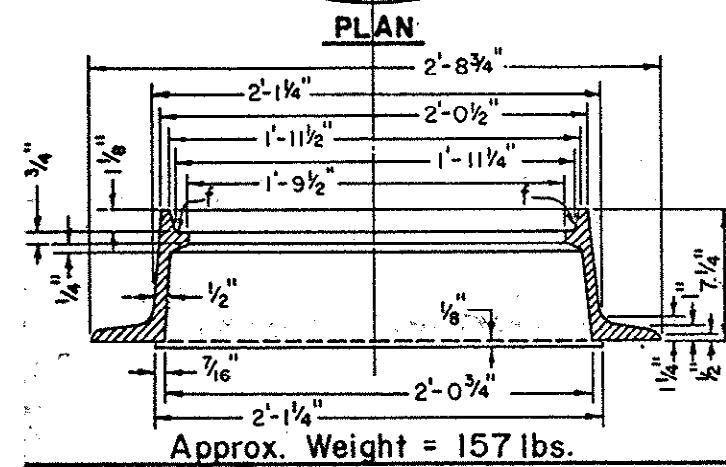
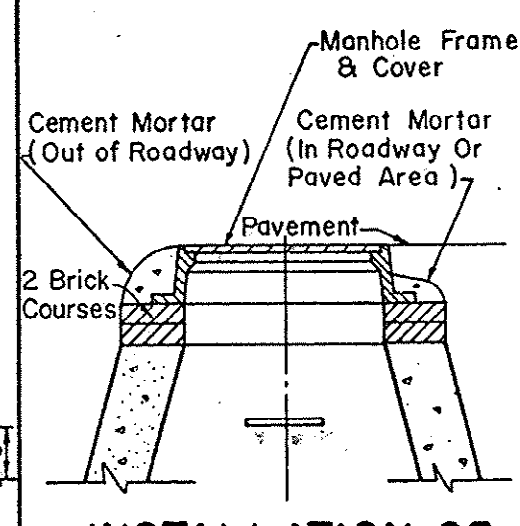
PROFILE
 SURVEYED
 PLOTTED
 NOTE BOOK GRADES CHECKED
 #1 OF WAY CHECKED
 No.



20-204-042/46

[illegible]

20-204-043/96

[illegible]

INSTALLATION OF FRAME AND COVER

Cylindrical and conical sections of all manholes shall be constructed of either monolithic concrete or precast concrete rings as designated in the Project Specifications of the Project Contract Document.

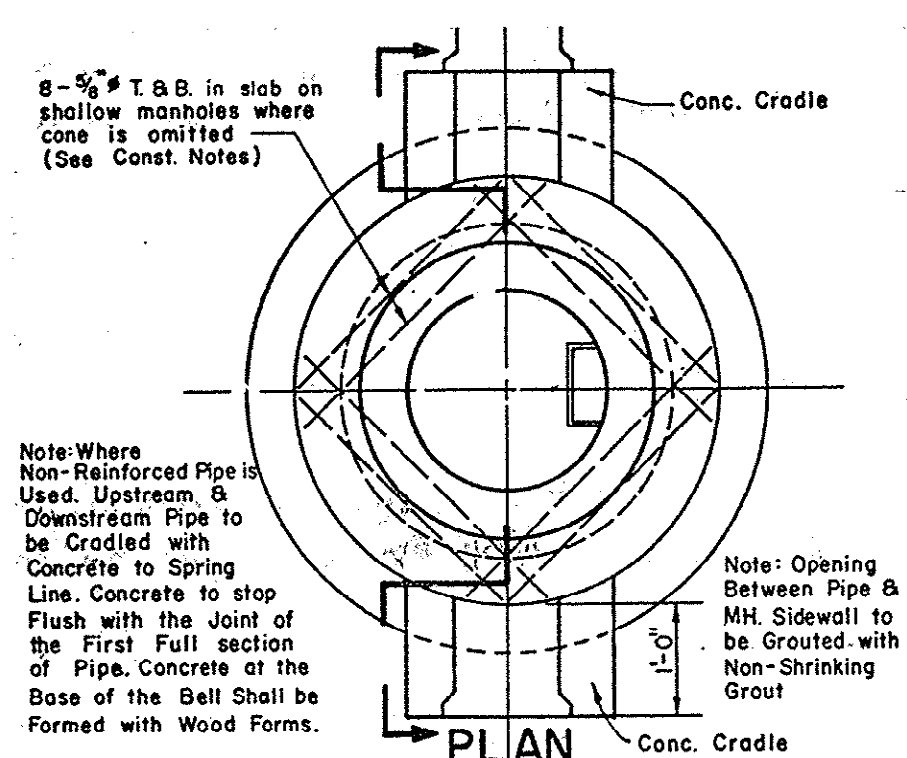
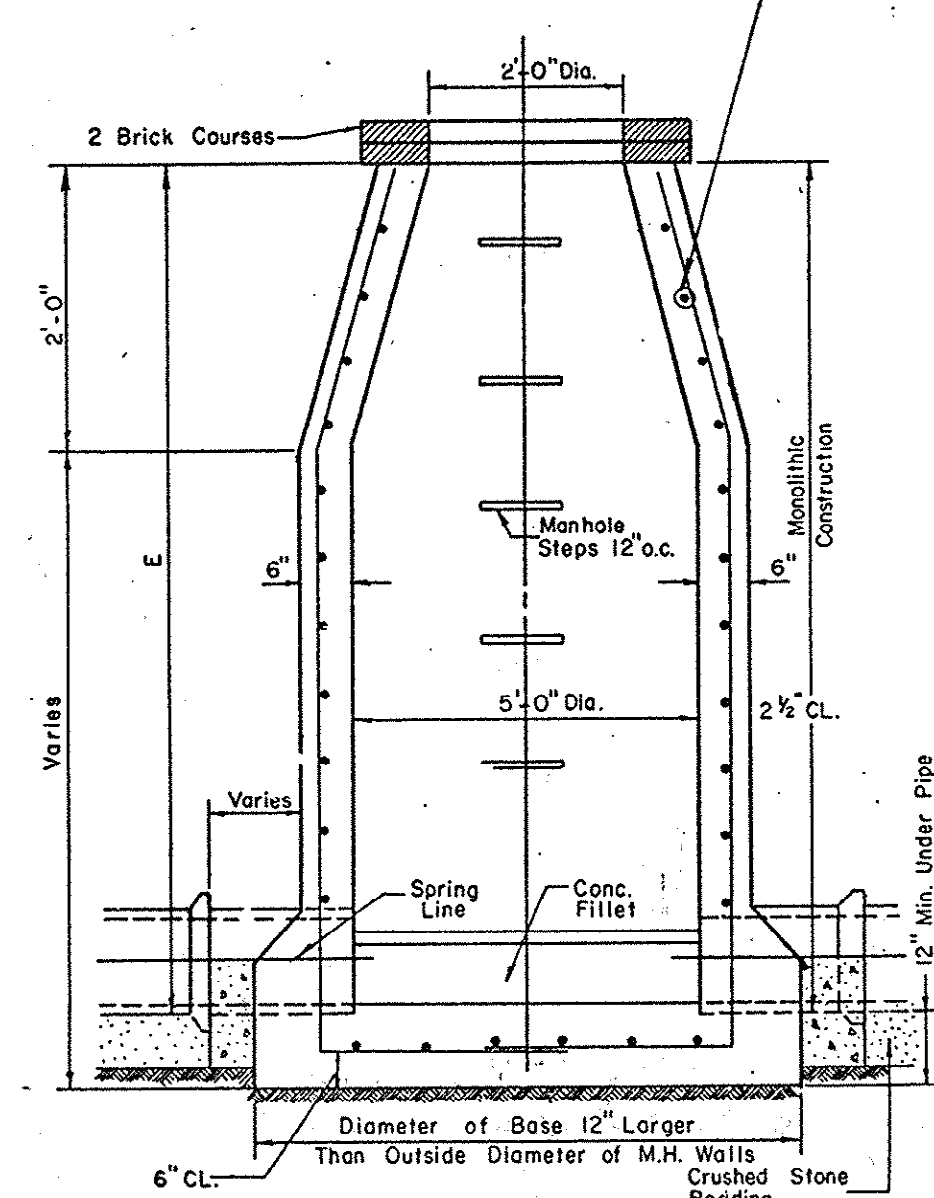
Concentric cones shall be used on Precast Concrete and Monolithic Concrete Units.

Dimension "E" varies. When less than 5 feet omit cone and extend cylindrical manhole sidewall section to an elevation of 8" inches below bottom of adjusting brick. Construct 8 inch diameter concrete slab on top of cylindrical section reinforced with 5/8" # bars shown. Provide 24 inch diameter opening in slab for manholes frame and brick adjustment rings as on coned manhole.

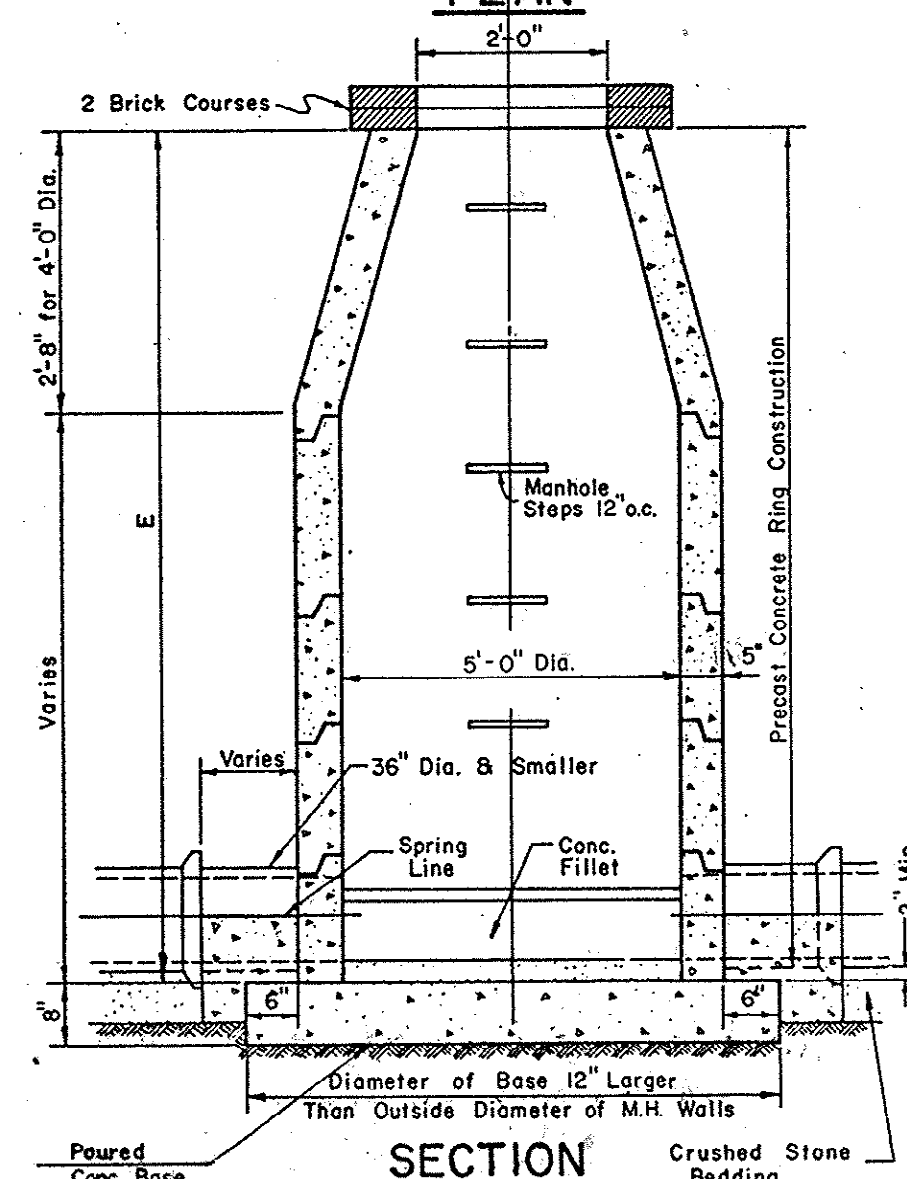
Bench flares in manholes for sawers 18" in diameter and smaller to be built up to the three-quarter point on pipe. Larger manholes 24" in diameter and high. Larger manholes to spring line. No Bench flares provided in dead end manholes, although bottom to be properly dished.

NOTE: Granular Back Fill Material Shall be Placed Adjacent to Manhole in Areas where Swelling Clay Exist.

6x6 - 3/2 W.W.F. (Lap 1'-0")
or
3x12" Vert.
3x8" (Ø) Rings
(Lap 1'-6" Where Req'd)



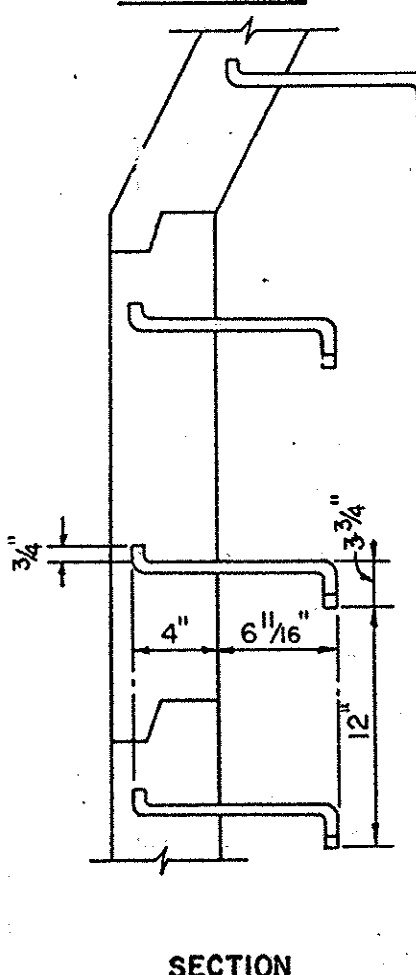
Note: Where Non-Reinforced Pipe is Used, Upstream & Downstream Pipe to be Cradled with Concrete to Spring Line. Concrete to stop Flush with the Joint of the First Full section of Pipe. Concrete at the Base of the Bell Shall be Formed with Wood Forms.



1" Square Aluminum Steps or Approved Equal

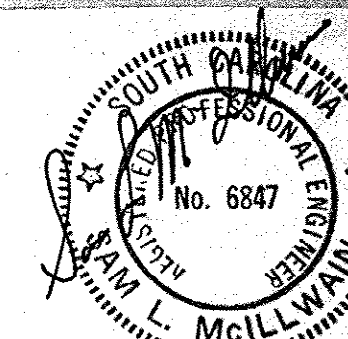
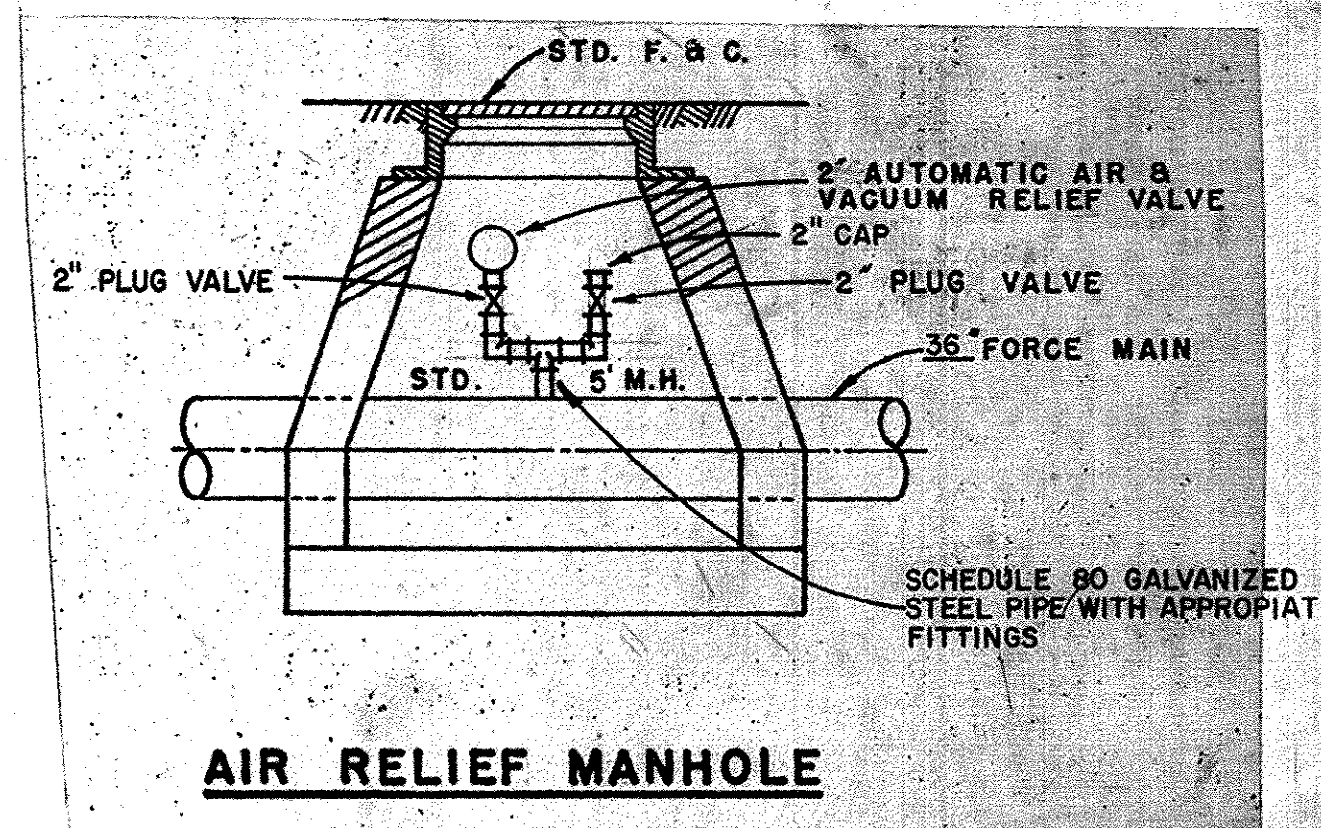
16"

ELEVATION



A diagram of a circular manhole. The diameter is labeled "3'-0" DIAMETER". The offset from the centerline to the manhole is labeled "5'-0" (6'-0" FOR 90°)". The depth of the manhole is labeled "3'-6" (4'-0" FOR 90°)". The manhole is shown in cross-section, with a 90° angle indicated at the bottom.

Diagram illustrating the reinforcing steel layout for a column. The column has a diameter of 11'-0" and a height of 5'-0". The horizontal reinforcing steel is 7 #4 @ 12" x 10'-6". The vertical reinforcing steel is #5 @ 12" x 6'-6".



20-204-099/90

				DESIGNED _____
				DRAWN _____
				CHECKED _____
NO.	DATE	DESCRIPTION	APPROVED	DATE _____
REVISIONS				

CITY OF MYRTLE BEACH, SOUTH CAROLINA
DEPARTMENT OF PUBLIC WORKS

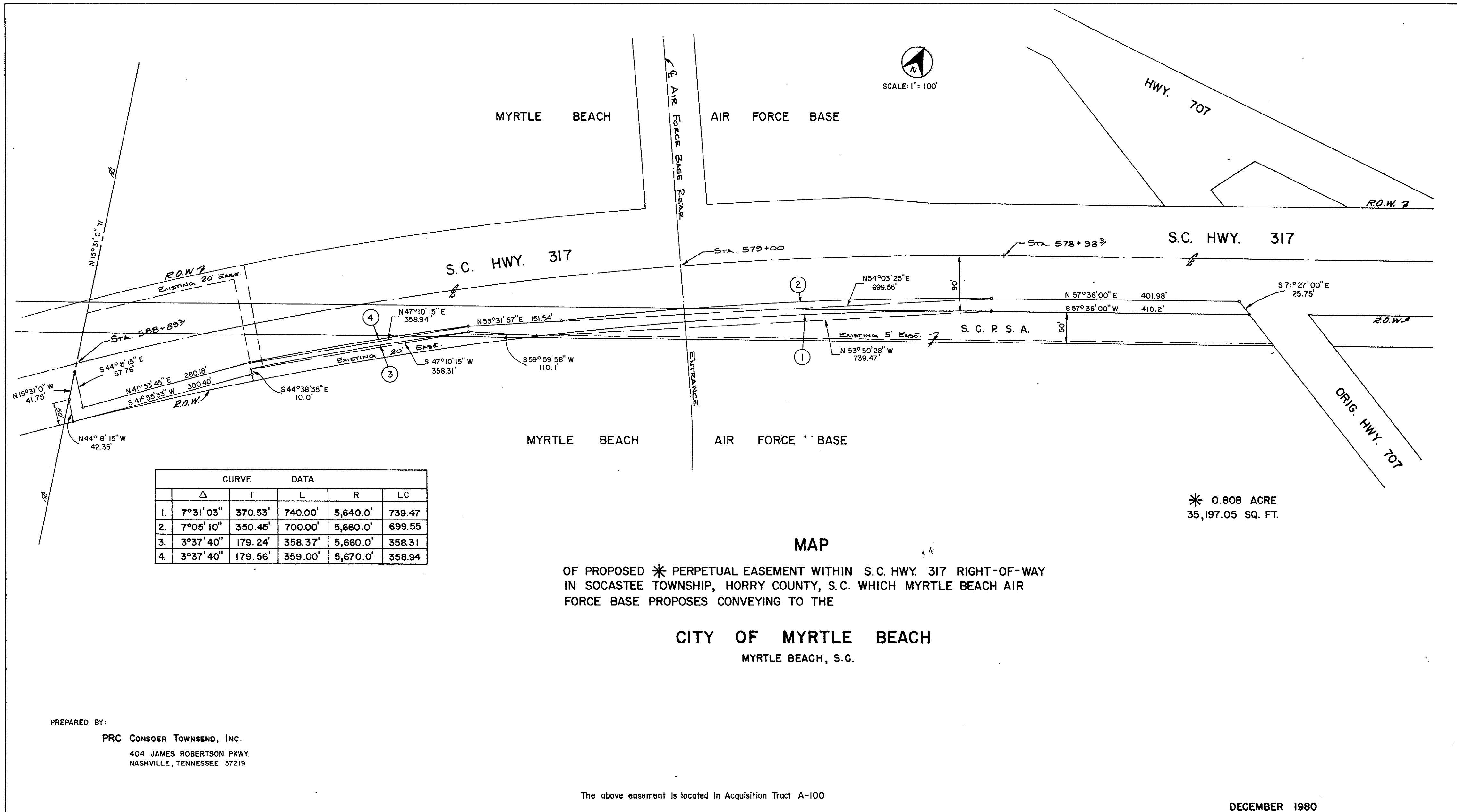
DETAIL SHEET

SHEET 44

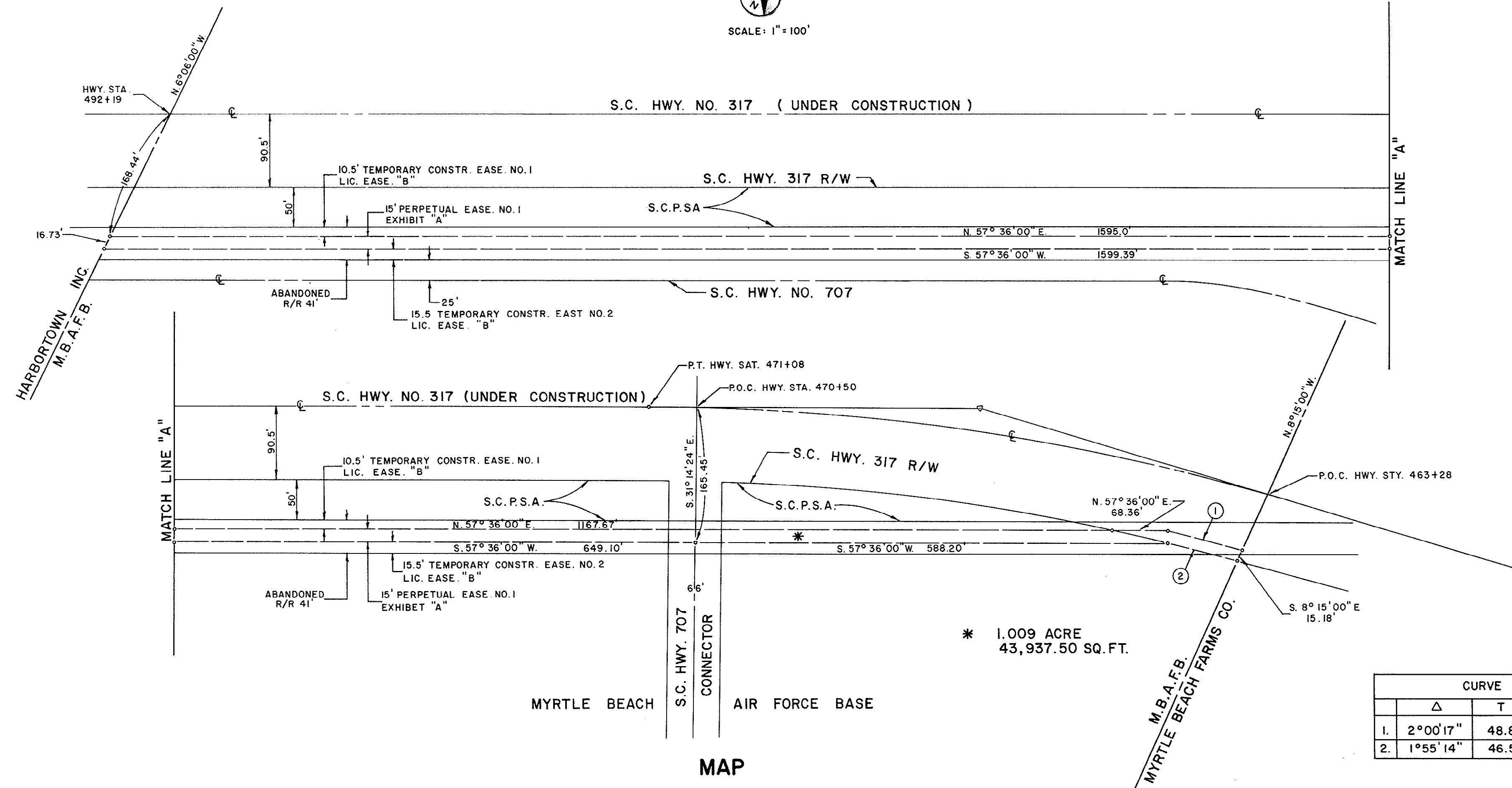
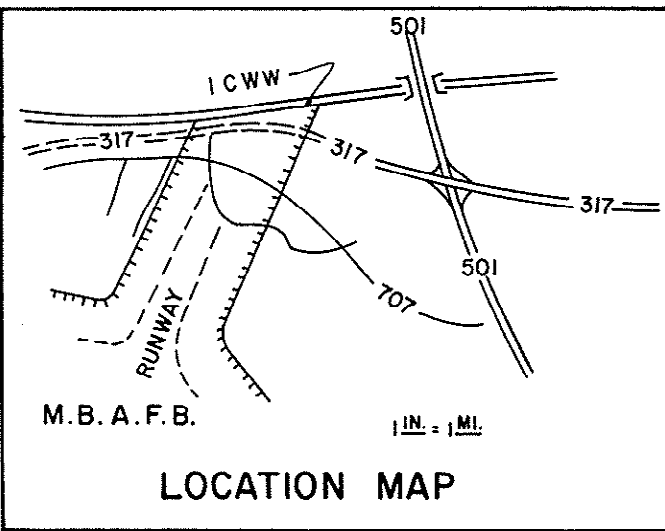
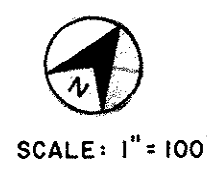
OF 44

 PROJECT NO. 7828

ADDENDUM NO. 1 10-7-80



20-204-045/46



CURVE		DATA			
	Δ	T	L	R	LC
1.	2°00'17"	48.81'	97.61'	2,789.5'	97.60
2.	1°55'14"	46.51'	93.01'	2,774.5'	93.00

MAP
OF PROPOSED * PERPETUAL EASEMENT IN SOCASTEE
TOWNSHIP, HORRY COUNTY, S.C. WHICH MYRTLE BEACH
AIR FORCE BASE PROPOSES CONVEYING TO THE

CITY OF MYRTLE BEACH
MYRTLE BEACH, S.C.

PREPARED BY:
PRC CONSOER TOWNSEND, INC.
404 JAMES ROBERTSON PKWY.
NASHVILLE, TENNESSEE 37219

