

RESOLUTION NO. 22-190

A RESOLUTION OF THE CITY OF PANAMA CITY BEACH, FLORIDA, APPROVING A TASK ORDER WITH DEWBERRY, INC., FOR ENGINEERING DESIGN SERVICES RELATED TO UTILITY RELOCATIONS REQUIRED BY THE WIDENING OF PANAMA CITY BEACH PARKWAY, IN AN AMOUNT NOT TO EXCEED \$201,500.

BE IT RESOLVED that the appropriate officers of the City are authorized to accept and deliver on behalf of the City that certain Task Order 1 to its Master Services Agreement with Dewberry, Inc., for Professional Engineering Services for Major Potable Water System Facilities, relating to design services for utility relocations required by FDOT's widening of the Panama City Beach Parkway, in the amount of One Hundred Ninety-Five Thousand Dollars (\$195,000), plus an allowance not to exceed \$6,500 for surveying and field work, in substantially the form **attached** and presented to the Council today, with such changes, insertions or omissions as may be approved by the City Manager and whose execution shall be conclusive evidence of such approval.

THIS RESOLUTION shall be effective immediately upon passage.

PASSED in regular session this 28th day of July, 2022.

CITY OF PANAMA CITY BEACH

By: 
Mark Sheldon, Mayor

ATTEST:


Lynne Fasone, City Clerk

EXHIBIT B
COMBINED TASK ORDER AND
NOTICE TO PROCEED

TASK ORDER NO. 1

DATE: July 28, 2022

Reference is made to that certain MASTER SERVICES AGREEMENT BETWEEN CITY OF PANAMA CITY BEACH AND DEWBERRY, INC RELATING TO PROFESSIONAL UTILITY ENGINEERING SERVICES – MASTER SERVICES AGREEMENT FOR PROFESSIONAL ENGINEERING SERVICES FOR POTABLE WATER SYSTEM STORAGE AND PUMPING FACILITIES; POTABLE WATER TRANSMISSION MAINS OVER 12" IN DIAMETER dated July 28, 2022, (the Agreement), the terms, conditions, and definitions of which are incorporated herein as if set forth in full. Neither party is in breach of the Agreement.

Pursuant to the Agreement, Engineer agrees to perform the specific tasks set forth upon incorporated Attachment A, Scope of Services, relating to Panama City Beach Parkway Utility Relocations – Nautilus to Richard Jackson Project.

Engineer's total compensation shall be (check one):

_____ a stipulated sum of \$ _____; or

a stipulated sum of \$ 195,000 plus a specified allowance of \$6,500 for subsurface utility exploration investigation which may be authorized in writing by the Utilities Director or his designee,

_____ a fee determined on a time-involved basis with a maximum cost of \$ _____;

Work shall begin on August 1, 2022 and shall be completed 120 calendar days following this date. The date of completion of all work is therefore December 1, 2022. Liquidated delay damages, if any, are set at the rate of \$250 per calendar day up 20 days after the deadline, \$500 per calendar day thereafter. There are no additional rights and obligations related to this Task Order other than as specified in the Agreement.

Upon execution of this task order by both Engineer and City, Engineer is directed to proceed.

IN WITNESS WHEREOF the parties have caused these presents to be executed in their names on the date shown.

Witness:



DEWBERRY, INC.

By:  Date: 08/11/22
Jonathan Skarski, P.E.
Its: Vice President

CITY OF PANAMA CITY BEACH, FL.

ATTEST:


Lynne Fasone, City Clerk

By:  Date: 8-17-22
Drew Whitman, City Manager



Dewberry Engineers Inc. | 850.522.0644
 203 Aberdeen Parkway | 850 522 1011 fax
 Panama City, FL 32405 | www.dewberry.com

July 9, 2022

Via Email at mark.shaeffer@pcbgov.com

Attn: Mark E. Shaeffer, P.E.
 Utilities Director
 City of Panama City Beach
 110 South Arnold Road
 Panama City Beach, Florida 32413

RE: **SR 30A (US 98) PC BEACH PKWY FROM EAST NAUTILUS STREET TO RICHARD JACKSON BLVD UTILITIES RELOCATION**

Dear Mr. Shaeffer:

Dewberry Engineers Inc. (Dewberry) is pleased to submit this task order for providing the engineering services required in conjunction with the relocation of segments of existing City of Panama City Beach utilities, including potable water, force main and reclaim water main of various pipe diameter sizes that will be impacted by the proposed FDOT S.R. 30A widening and drainage improvements from East of Nautilus Street to Richard Jackson Blvd. As we understand and is provided by FDOT consultant in a utility conflict matrix, there has been approximately ninety-four (94) plus two (2) additional conflicts that dewberry identified along SR 30A (US 98) utility conflicts with proposed FDOT improvements and are as follow:

A. Conflicts along SR 30AA (US 98):

1. Conflict No. 3, relocation of approximately 60 feet of 16" water main that will be in conflict with FDOT proposed drainage pipe at STA 1026+65, 80' LT. Line stops with a bypass feature will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.
2. Conflict No. 4, protect in place 18" force main that may be impacted/conflict with FDOT proposed ditch realignment and side drains at STA 1026+20, 80' LT.
3. Conflict No. 5, protect in place 16" water main that may be impacted/conflict with FDOT proposed ditch realignment and side drains at STA 1026+65, 80' LT.
4. Conflict No. 6, protect in place 24" force main that may be impacted/conflict with FDOT proposed ditch realignment and side drains at STA 1026+65, 86' RT.
5. Conflict No. 7, protect in place approximately 1,230 LF of 20" force main (STA 1029+20 to STA 1038+50), 87' RT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements
6. Conflict No. 10, adjust to grade existing MH cover that is impacted/conflict with FDOT proposed sidewalk at STA 1029+34, 76' RT.
7. Conflict No. 11, existing 2" and 6" water valve boxes adjustment that will be impacted/conflict with FDOT proposed sidewalk and drainage STA 1029+40, 83' RT. Segment of abandoned 6" CI water main to be removed and/or fill with flowable concrete fill.
8. Conflict No. 12, existing ABANDON approx. 20 LF of 6" CI water main that will be impacted/conflict with FDOT proposed median drain and side drains at STA 1029+80, 83' RT. 6" line to be filled with flowable concrete fill material.
9. Conflict No. 13, protect in place approximately 400 LF of 18" force main (STA 1030+00 to STA 1034+00), 81' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review

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- cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements
10. Conflict No. 14, protect in place approximately 400 LF of 24" force main (STA 1030+00 to STA 1034+00), 81' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements
 11. Conflict No. 15, protect in place approximately 470 LF of 30" reclaim water main (STA 1030+00 to STA 1034+70), 80' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. A courtesy review of the FDOT plans revealed that Approximately 500 LF of 30" RW will need to be relocated, including cut in tees and isolations valves to obtain PCB 42" minimum recommended cover.
 12. Conflict No. 16, protect in place approximately 250 LF of 12" and 16" water mains (STA 1031+00 to STA 1032+50), 88' RT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements. Based on FDOT plans approximately 120 LF of 16" WM will be relocated to provide horizontal separation with proposed storm pipe and inlet structures. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch force main to be relocated while the line is kept in operation.
 13. Conflict No. 18, protect in place and/or adjust 2" HDPE reclaim water main (STA 1033+00, 7'RT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 2" HDPE pipe 220 feet long will be installed deep by using HDD (trenchless technology).
 14. Conflict No. 26, protect in place and/or adjust 2" HDPE (size to be field verified) reclaim water main (STA 1034+84, 6' LT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 2" HDPE pipe 220 feet long will be installed deep by using HDD (trenchless technology).
 15. Conflict No. 27, protect in place and/or adjust 6" FPVC (size to be field verified) water main (STA 1035+27, 6' LT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 6" FPVC water installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 6" FPVC pipe 220 feet long will be installed deep by using HDD (trenchless technology).
 16. Conflict No. 32, protect in place or adjust 200 LF of 18" FM (STA 1037+00 to STA 1039+00), 82' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements. A courtesy review showed that approximately 60 feet of 18" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1038+80. Line stops with a bypass feature will be used in the design to allow for that segment of 18-inch force main to be relocated while the line is kept in operation.
 17. Conflict No. 36, protect in place 30" reclaim water main (STA 1038+80), 95 LT that may be impacted/conflict with FDOT proposed side drains. Dewberry will review cross sections to ensure proper cover is maintained.
 18. Conflict No. 37, protect in place 24" force main (STA 1038+80), 88' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements. Line stops with a bypass feature will be used in the design to allow for that segment of 24-inch force main to be relocated while the line is kept in operation.
 19. Conflict No. 38, protect in place and/or adjust 6" FPVC (size to be field verified) water main (STA 1039+89, 7' RT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT



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plans shows that this must likely is a 6" FPVC water installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 6" FPVC pipe 220 feet long will be installed deep by using HDD (trenchless technology).

20. Conflict No. 43, protect in place or adjust 1,600 LF of 18" FM (STA 1043+00 to STA 1059+00), 70' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 80 feet of 18" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78. In addition, approx. Line stops with a bypass feature will be used in the design to allow for that segment of 18-inch force main to be relocated while the line is kept in operation.
21. Conflict No. 44, protect in place or adjust 1,600 LF of 24" FM (STA 1043+00 to STA 1059+00), 85' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 60 feet of 24" FM may need to be relocated to provide additional cover with proposed ditch around STA 1043+00 and another 80 feet of 24" FM at STA 1048+78 to provide sufficient clearance from proposed drainpipe. Line stops with a bypass feature will be used in the design to allow for that segment of 24-inch force main to be relocated while the line is kept in operation.
22. Conflict No. 45, relocate/adjust approximately 1,650 LF of 30" reclaim water main (STA 1043+00 to STA 1059+00), 80' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Relocate Approximately 1,650 LF of 30" RW including cut in tees and isolations valves to obtain PCB 42" minimum recommended cover.
23. Conflict No. 48, already included above with ITEM 20, Protect in place or adjust 18" FM (STA 1048+78), 74' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. This Conflict is already described above on ITEM 20 that includes approximately 80 feet of 18" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78. Line stops with a bypass feature will be used in the design to allow for that segment of 18-inch force main to be relocated while the line is kept in operation.
24. Conflict No. 49, already included above with ITEM 21, protect in place or adjust 24" FM (STA 1048+78), 74' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. This Conflict is already described above on ITEM 21 that includes approximately 80 feet of 24" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78. Line stops with a bypass feature will be used in the design to allow for that segment of 24-inch force main to be relocated while the line is kept in operation.
25. Conflict No. 50, already included above with ITEM 22, Protect in place or adjust 30" RW (STA 1048+78), 74' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. This Conflict is already described above on ITEM 22 that includes approximately 1,650 feet of 30" RW that needs be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78.
26. Conflict No. 51, protect in place approximately 16" WM (STA 1048+78), 74' RT that may be impacted/conflict with FDOT proposed 36" drainpipe. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements Based on FDOT plans approximately 80 LF of 16" WM may be relocated to provide horizontal separation with proposed 36" storm pipe and end section. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
27. Conflict No. 52, protect in place or adjust 20" FM (STA 1048+78), 89' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that approximately 42" of cover existing between the 20" FM and the bottom of the 36" storm pipe. However, that will need to be clarified during the design. If vertical separation becomes a concern, 80 feet of 20" FM may need to be relocated to provide additional cover with proposed 36" storm pipe at STA 1048+78, 89' RT. Line stops with



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- a bypass feature will be used in the design to allow for that segment of 20-inch force main to be relocated while the line is kept in operation.
28. Conflict No. 53, protect in place or adjust 4" RW (STA 1048+78), 89' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that sufficient cover between existing 4" RW and proposed 36" storm pipe and end section will not be achieved. As a result, 80 feet of 4" RW will need to be relocated to provide satisfactory clearance, including cut in tees and isolations valves.
 29. Conflict No. 57, protect in place or adjust 2" FM (STA 1049+68), 61' LT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that proposed 42" drainpipe could be in conflict with existing 2" FM. Dewberry anticipates relocating approximately 30 LF of 2" FM including 45 degrees bends and sleeve to eliminated conflict.
 30. Conflict No. 58, protect in place or adjust 2" RW (STA 1049+68), 61' LT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that proposed 42" drainpipe could be in conflict with existing 2" RW. Dewberry anticipates relocating approximately 30 LF of 2" RW including 45 degrees bends and sleeve to eliminated conflict.
 31. Conflict No. 60, protect in place and/or adjust 4" PVC (size to be field verified) forcer main (STA 1053+13, 10' RT and 64' RT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 4 PVC FM may have been installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 4" FPVC pipe 220 feet long will be installed deep by using HDD (trenchless technology).
 32. Conflict No. 61, protect in place or adjust 20" FM (STA 1053+71), 81.44 RT that may be impacted/conflict with FDOT proposed side drains. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 80 feet of 20" FM may need to be relocated to provide additional cover with proposed ditch around STA 1053+00 to provide sufficient clearance from proposed drainpipe. Line stops with a bypass feature will be used in the design to allow for that segment of 20-inch force main to be relocated while the line is kept in operation.
 33. Conflict No. 62, protect in place and/or adjust 6" WM valve and fire hydrant to avoid conflict with proposed FDOT sidewalk at (STA 1053+82, 73' RT. Fire hydrant to be relocated away from proposed sidewalk.
 34. Conflict No. 65, protect in place approximately 600 feet of 16" WM (STA 1054+00 to STA 1060+04), 86' RT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements Based on FDOT plans approximately 60 LF of 16" WM may be relocated to provide horizontal separation with proposed 24" storm pipe at STA 1059+00. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
 35. Conflict No. 67, existing water valve box adjustment that will be in the proposed sidewalk by FDOT at STA 1054+45, 75' RT.
 36. Conflict No. 68, existing Manhole (ARV) adjustment that will be in the proposed ditch side slope realignment sidewalk by FDOT at STA 1054+45, 87' RT.
 37. Conflict No. 69, protect in place 16" WM (STA 1055+73), 87' RT that may be impacted/conflict with FDOT proposed side drainpipe and end section. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements Based on FDOT plans approximately 80 LF of 16" WM may be relocated to provide horizontal separation with proposed 24" storm pipe at STA 1055+73. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.

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38. Conflict No. 72, protect in place or adjust 70 LF of 20" FM (STA 1058+30 to STA 1059+00), 87' RT that may be impacted/conflict with FDOT proposed side ditch and structure S-144. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 100 feet of 20" FM may need to be relocated to provide additional horizontal separation with proposed side drainpipe and structure S-144. Line stops with a bypass feature will be used in the design to allow for that segment of 20-inch force main to be relocated while the line is kept in operation.
39. Conflict No. 73, protect in place or adjust 70 LF of 16" FM (STA 1058+30 to STA 1059+00), 87' RT that may be impacted/conflict with FDOT proposed side ditch and structure S-144. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 100 feet of 16" WM may need to be relocated to provide additional horizontal separation with proposed side drainpipe and structure S-144. Line stops with a bypass feature will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.
40. Conflict No. 77, protect in place and/or adjust 12" reclaim water main (STA 1059+35, 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 12" RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 12" RW pipe 220 feet long will be installed deep by using HDD (trenchless technology).
41. Conflict No. 78, protect in place and/or adjust 12" PVC water main (STA 1059+35, 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 12" PVC installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 12" WM pipe 220 feet long will be installed deep by using HDD (trenchless technology).
42. Conflict No. 79, existing sanitary sewer valves box adjustment that will be in the proposed road widening by FDOT at STA 1059+60, 74' LT.
43. Conflict No. 79-A, existing reclaim water valve box adjustment that will be in the proposed sidewalk widening by FDOT at STA 1060+35, 85' LT.
44. Conflict No. 80, protect in place and/or adjust 18" FM (STA 1059+80, 2' RT, LT and 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is an 18" FM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, it is in conflict with proposed side 42" drainpipe. It appears that a new 18" FM FPVC HDD 300 feet may be required to make a back tap connection and eliminate possible conflict with 42" storm pipe.
45. Conflict No. 83, protect in place and/or adjust approximately 1,500 feet of 20" FM (STA 1060+60 to STA 1075+60), 63' LT that may be impacted/conflict with FDOT proposed drainage system. Courtesy review of the FDOT plans preliminarily shows sufficient horizontal distance for the proposed 42" and 48" drainpipes and structures, however, FDOT contractor MUST require caution to ensure protection of the existing 20" FM. However, it is in conflict with proposed side 42" and 48" drainpipes, several hundred of pipe may need to be relocated to provide proper horizontal separation.
46. Combined conflicts No. 85 and 88, protect in place or adjust 950 LF of 16" DIP WM (STA 1062+00 to STA 1071+50), 69' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review showed that approximately six (6) locations at STA 1062+00, 1063+50, 1065+00, 1067+00, 1068+50) will be in conflict. As result, 950 feet of 16" WM will be relocated including line stops with a bypass feature at each end will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.
47. Conflict No. 92, protect in place or adjust 6" WM (STA 1074+23), 92' RT that may be impacted/conflict with FDOT proposed mitered end pipe extension. A courtesy review of the FDOT cross section showed that

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approximately 48" of cover existing between 6" WM and proposed 2-30" storm pipe mitered ends. Therefore, no relocation is anticipated.

48. Conflict No. 93, protect in place or adjust 2,604 LF of 16" DIP WM (STA 1074+48 to STA 1100+52), 64' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review showed that approximately 19 structures and new drainpipe will impact the existing 16" water main. As a result, the whole length of 2,604 of existing of 16" WM will be relocated including line stops with a bypass feature at each end will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.
49. Conflict No. 94, protect in place or adjust 830 LF of 6" WM (STA 1075+00 to STA 1083+30), 67' LT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review showed that approximately 830 LF of 6" WM will need to be relocated to avoid conflict with proposed 48" drainpipe, including line stops equipped with a bypass feature at each end will be used in the design to allow for that segment of 6" water main to be relocated while the line is kept in operation. Line stops with a bypass feature at each end will be used in the design to allow for that segment of 6" WM to remain in service.
50. Conflict No. 96, protect in place and/or adjust 1,110 feet of 20" FM (STA 1075+57 to STA 1086+60), 79' LT that may be impacted/conflict with FDOT proposed drainage system. Courtesy review of the FDOT plans shows that approximately 1,110 LF of 20" FM will be required to be relocated from STA 1075+30 to STA 1077+30 to avoid conflict with proposed 36" storm pipe and structures including line stops with a bypass feature at each end will be used in the design to allow for that segment of 20" FM.
51. Conflict No. 97, protect in place and/or adjust existing 24" RW (STA 1075+57 to STA 1086+60), 97' LT that may be impacted/conflict with FDOT proposed ditch realignment, structures and side drains. A courtesy review of the FDOT plans shows that at a minimum two (2) segments of 24" RW totaling 425 LF will need to be relocated to avoid conflict with proposed 36" storm pipe. Those segments are from STA 1075+57 to STA 1077+00 and from STA 1077+75 to STA 108+50. Cut in tees, fittings and isolation valves will be used in the design.
52. Conflict No. 98, existing 6" gate valves on water main to be adjusted impacted by proposed FDOT sidewalk and side drains. Near STA 1075+57, 64' RT.
53. Conflict No. 101, existing 6" gate valves on water main to be adjusted impacted by proposed FDOT sidewalk and side drains. Near STA 1079+00, 64' RT.
54. Conflict No. 105, existing 8" gate valves on water main to be adjusted impacted by proposed FDOT sidewalk and side drains. Near STA 1082+03, 95' RT.
55. Conflict No. 106, protect in place and/or adjust 16" reclaim water (RW) main (STA 1082+44, 81' LT that may be impacted/conflict with FDOT proposed median and side drainpipes. A courtesy review of the FDOT plans shows that this must likely is a 16" RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case with proposed 36" and 48" side drainpipes. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipes and brought up with fittings and connect to existing 24" RW.
56. Conflict No. 110, protect in place and/or adjust 6" PVC water main (STA 1083+40, 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 6" PVC installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case with proposed 36" and 48" side drainpipes. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipes and brought up with fittings and connect to existing.

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57. Conflict No. 112, protect in place and/or adjust 6" WM valve STA 1085+83, 90' RT to fire hydrant to avoid conflict with proposed FDOT ditch realignment at (STA 1085+83, 90' RT. Approximately 40 LF of 6" WM will be relocated and connected to existing FH.
58. Conflict No. 113, protect in place and/or adjust 6" WM valve STA 1086+38, 88' RT to back flow preventer to avoid conflict with proposed FDOT ditch realignment at (STA 1086+38, 88' RT. Approximately 40 LF of 6" WM will be relocated and connected to existing back flow prevented.
59. Conflict No. 114, protect in place and/or adjust existing 20" FM at STA 1086+90, 79' LT that will be impacted by three (3) storm drainpipes to Pond located north. A courtesy review of the FDOT plans shows that the proposed 72" pipes will be in conflict and as a result approximately 120 LF of 20" FM will be required to be relocated from 1086+40 to STA 1087+60. Line stops with a bypass feature at each end will be used in the design to allow for that segment of 20" FM to remain in service.
60. Conflict No. 115, protect in place and/or adjust existing 24" RW at STA 1087+15, 89' LT that will be impacted by three (3) storm drainpipes to Pond located north. A courtesy review of the FDOT plans shows that the proposed 72" pipes will be in conflict and as a result approximately 120 LF of 24" RW will be required to be relocated from 1086+40 to STA 1087+60. Cut In tees, isolation valves and fittings at each end will be used in the design.
61. Conflict No. 116, protect in place and/or adjust existing 20" PVC FM from STA 1087+15 to STA 1106+10, 80' LT that will be impacted by drainage system. A courtesy review of the FDOT plans shows that a conflict is expected at STA 1106+10 with proposed FDOT 29" x45" side drain and end section. Approximately 60 feet of 20" FM will need to be relocate to provide sufficient cover under the proposed drainpipe. Line stops with a bypass feature at each end will be used in the design to allow for that segment of 20" FM to remain in service.
62. Conflict No. 117, protect in place and/or adjust 6" WM valve to fire hydrant to avoid conflict with proposed FDOT ditch realignment at (STA 1089+18, 83' RT. Approximately 40 LF of 6" WM will be relocated and connected to existing FH.
63. Conflict No. 120, protect in place and/or adjust existing 20" PVC FM from STA 1091+12 to STA 1091+60, 90' RT that will be impacted by side drain and ditch realignment. A courtesy review of the FDOT plans shows that a conflict may not be expected by the proposed side drain and ditch realignment.
64. Conflict No. 123, protect in place and/or adjust 6" WM STA 1096+17, 63' RT valve impacted by proposed FDOT sidewalk and drainage.
65. Conflict No. 126, protect in place and/or adjust 4" HDPE FM (STA 1097+75, 62' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 4" RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case when crossing proposed 36" storm side drainpipe. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipe and brought up with fittings and connect to existing 20" FM paralleling U.S. 98.
66. Conflict No. 127, protect in place and/or adjust 6" PVC WM (STA 1097+93, 62' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 6" FPVC WM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case when crossing proposed 36" storm side drainpipe. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipe and brought up with fittings and connect to existing. On the north side of U.S.. 98.
67. Conflict No. 128, protect in place and/or adjust 6" WM valves STA 1098+00, 60' RT Impacted by proposed FDOT sidewalk and drainage.



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68. Conflict No. 131, protect in place and/or adjust existing 20" PVC FM STA 1106+20, 85' LT that will be impacted by drainage. This conflict was addressed above on ITEM 116.
69. Conflict No. 133, protect in place approximately 820 LF of 20" PVC FM from STA 1106+50 to STA 1114+70, 100' RT that will be impacted by side drain and ditch realignment. A courtesy review of the FDOT plans shows that a conflict exists at 1106+50 requiring relocation of approximately 80 LF of 20" FM under the proposed FDOT three (3) 42" pipe extensions. may not be expected by the proposed side drain and ditch realignment. At STA 1112+50 a proposed FDOT structure may be within 10 feet of the existing 20" FM. FDOT contractor SHALL exercise careful exaction and installation of structure to protect the integrity of the 20" FM.
70. Conflict No. 138, protect in place and/or approximately 855 LF of 20" RW from STA 1106+63 to STA 1113+18, 88' RT that will be impacted by proposed FDOT drainage. A courtesy review of the FDOT plans shows that the approximately 120 LF of 20" RW will be required to be relocated from 1105+80 to 1107+00. Cut in tees, isolation valves and fittings at each end will be used in the design.
71. Conflict No. 137, protect in place and/or adjust approximately 1,881 LF of 16" DIP WM from STA 1107+19 to STA 1113+18, 87' LT that will be impacted by proposed FDOT inlets and drainpipe and mast arm #3 and #4.drainage. A courtesy review of the FDOT plans shows that the approximately 120 LF of 20" RW will be required to be relocated from 101105+80 to 1107+00. In addition, existing 16" DIP WM will be relocated north approximate 270 LF from STA 110+80 to STA 1113+18. Line stops with a bypass feature at each end of the two segments described above will be used in the design to allow for that segment of 16" WM to remain in service. The 16" WM as shown will remain under the pavement as no room south of the proposed drainage pipe paralleling U.S. 98 exist. Also, strongly suggest that FDOT relocated Mast arm at southwest corner of Alf Coleman Rd and U.S. 98 to avoid conflict with 16" WM as there is not room for water line relocation.
72. Conflict No. 138, protect in place and/or adjust 20" HDPE FM (STA 1113+04, 87' RT that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 20" HDPE FM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case when crossing proposed 30" storm side drainpipes on both sides of U.S. 98. The FDOT plans do show that the proposed 30" drainpipes are installed 12 to 24' higher than existing force main so sufficient clearance could exist. FDOT cross section at STA 1113+00 do show 3- force main pipes on the right side which do not match plan view. Strongly suggest FDOT consultant to confirm prior to Dewberry design.
73. Conflict No. 141, protect in place and/or adjust 16" HDPE RW (STA 1113+58, 74' LT that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 16" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. The existing 16" RW HDD may be deep enough on both ends of U.S. 98 but strongly suggest FDOT to perform additional SUE at those crossings to determine clearance. The same will be with proposed mast arm # 3 at the NW corner of Alf Coleman Rd and US 98 since it proposed to be installed on top of the existing 16" RW.
74. Conflict No. 142, protect in place and/or adjust 20" PVC FM (STA 1113+80, 97' RT that may be impacted/conflict with FDOT proposed arm mast # 3. Based on FDOT SUE information, the 20" FM is 4.55 feet deep which must likely be in conflict. Relocating the existing 20" FM will be required shutting down traffic at the intersection of Alf Coleman Rd and U.S. 98 to shift line and install the proper pipe join mechanical restrains. Strongly suggest the City request mast arm # 3 to be shifted to miss the 20" FM.
75. Conflict No. 145, protect in place and/or adjust 6" FM gate valve STA 1113+67, 78" LT impacted by proposed FDOT widening.

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76. Conflict No. 146, protect in place and/or adjust 20" PVC FM (STA 1113+80, 97' RT that may be impacted/conflict with FDOT proposed 18" drainpipe. A courtesy review of the FDOT plans, cross section that sufficient clearance appears to exist.
77. Conflict No. 147, protect in place and/or adjust 12" WM valve STA 1113+80, 97' RT impacted by proposed FDOT widening.
78. Conflict No. 148, protect in place and/or adjust 12" PVC RW (STA 1113+81, 90' RT to 115' RT that may be impacted/conflict with FDOT proposed arm mast # 3 and inlet and drainpipe. **The existing 12" RW across Alf Coleman Rd may be installed by HDD which in that case could be deep enough. Record drawings for this line will be required from the City. Furthermore, strongly suggest FDOT consultant performing additional SUE to determine 12" RW depth in the areas of conflict. Once that information is provided to Dewberry, conflict resolution will be designed.**
79. Conflict No. 149, protect in place and/or adjust 18" and 20" FM gate valve STA 1114+60, 101' RT impacted by FDOT proposed inlet and drainpipe. **Valves cannot be relocated. FDOT contractor SHALL exercise carefulness while constructing proposed improvements in this area.**
80. Conflict No. 154, protect in place and/or adjust 12" PVC WM (STA 1114+75, 80' LT that may be impacted/conflict with FDOT proposed inlet and drainpipe. A Courtesy review of the FDOT plans shows that this must likely is a 12" FPVC WM installed by HDD and could be deep enough to avoid conflict with FDOT proposed drainpipe. **However, strongly suggest FDOT consultant performing additional SUE to determine 12" WM depth in the areas of conflict. Once that information is provided to Dewberry, conflict resolution will be designed.**
81. Conflict No. 155, protect in place and/or adjust 12" and 16" WM gate valves STA 1114+75, 95' LT impacted by FDOT proposed widening.
82. Conflict No. 159, protect in place and/or adjust 20" PVC FM (STA 1115+28, 82' LT that may be impacted/conflict with FDOT proposed drainage. A courtesy review of the FDOT plans, cross section that sufficient vertical clearance appears to exist. **In addition, structure S-266 appears to be designed with approx. 5 feet horizontal separation. If the existing 20" FM is any closer than that it will be impacted. Strongly suggest FDOT consultant to perform SUE at this location and survey location to determine potential conflict if any.**
83. Conflict No. 160, protect in place and/or adjust 2" HDPE RW (STA 1120+90, 17 RT that may be impacted/conflict with FDOT proposed median and side drains. A Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. **However, it will be in conflict with structure S-276. A new 2" HDPE HDD is proposed to be install approximately 250 LF long and connected at each end.**
84. **Conflict No. 160-A not identified on FDOT matrix.** protect in place and/or adjust 16" WM (STA 1121+00, 81' RT that is impacted/conflict with FDOT proposed structure 276 and 24" drainpipe. A courtesy review of the FDOT plans, cross section 1121+00 clearly shows that proposed 24" pipe will have approx. 6" that sufficient vertical clearance appears to exist. Furthermore, structure S-276 and S-277 other structure south is too close. **Proposed relocating 200 LF of 16" WM to the south (STA 1120+60 to STA 1122+60).** Existing BFO and BT are in the way and need to be consider during 16" WM relocation. There also appears to be no sufficient horizontal separation to S-279. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
85. Conflict No. 161, protect in place and/or adjust 2" water meter STA 1121+00, 66' LT impacted by FDOT proposed widening. **Proposed relocating water meter assembly and box.**
86. **Conflict No. 161-A not identified on FDOT matrix.** protect in place and/or adjust 20" RW (STA 1122+00 to STA 1123+60), 81' LT that is impacted/conflict with FDOT proposed ditch realignment and headwall with pipes at STA 1123+15, 90' LT. A courtesy review of the FDOT plans, cross section 1123+05 clearly shows that existing 20" RW will be in conflict with proposed head wall and pipes. The same is for the ditch



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- realignments not having sufficient cover. **Proposed relocating 200 LF of 20" RW to the south (STA 1122+50 to STA 1123+50, including cut in tees, valves and fittings.**
87. Conflict No. 163, protect in place and/or adjust 24" WM (STA 1122+65, 81' RT that may be impacted/conflict with FDOT proposed side drains. A Courtesy review of the FDOT plans shows that this must likely is a 24" FPVC installed by HDD and could be deep enough to avoid conflict with FDOT proposed 24" side drainpipe. **However, strongly suggest FDOT consultant to perform SUE at this location to confirm.**
 88. Conflict No. 168, protect in place and/or adjust 2" HDPE RW (STA 1126+60, 77' LT that may be impacted/conflict with FDOT proposed ditch realignment. A Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed ditch. **However, strongly suggest FDOT consultant to perform SUE at this location to confirm, if proper cover can you achieve, then a new 2" HDPE HDD is proposed to be install approximately 250 LF long and connected at each end.**
 89. Conflict No. 169, protect in place and/or adjust 2" RW valve STA 1127+09, 62' RT impacted by FDOT proposed widening.
 90. Conflict No. 172, protect in place and/or adjust approx. 580 LF of 20" RW (STA 1125+00 to STA 1130+80), 61' LT that is impacted/conflict with FDOT ditch realignment and headwall at STA 1130+55. **Proposed relocating 580 LF of 20" RW to the south (STA 1125+00 to STA 1130+80, including cut in tees, valves and fittings.**
 91. Conflict No. 174, protect in place and/or adjust existing 16" DIP WM (STA 1130+50, 78' RT that is impacted/conflict with FDOT headwall extension. **Proposed relocating 80 LF of 16" WM, including line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.**
 92. Conflict No. 175, protect in place and/or adjust 6" PVC WM (STA 1132+22, 5' RT that may be impacted/conflict with FDOT proposed median drainpipe. A Courtesy review of the FDOT plans shows that this must likely is a 6" FPVC WM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe
 93. Conflict No. 176, protect in place and/or adjust 12" and 16" WM gate valves STA 1144+05, 89' LT impacted by FDOT proposed widening.
 94. Conflict No. 178, protect in place 12" PVC WM (STA 1145+30, 102' LT that may be impacted/conflict with proposed light pole 107. **Strongly suggest relocation of light pole 107.**
 95. Conflict No. 179, protect in place 12" PVC WM (STA 1145+30, 82' RT that may be impacted/conflict with light controller. **Strongly suggest relocation light controller.**

It is also our understanding that limited additional topographic survey will be performed on this project to pick up additional field information necessary for the relocation of utilities that may not be shown on the FDOT plans furnished by the City. Furthermore, it is the City's desire to design the proposed improvements utilizing FDOT drawings as the base platform for the improvements. Rather than using PDF drawings we recommend the City that Dwg drawings be obtained and provided to Dewberry.

Dewberry will provide professional engineering services required to generate construction drawings and technical specifications in sufficient detail to enable Panama City Beach to receive competitive bids from construction contractors. This proposal does not include professional services in conjunction with bidding and CEI services. Those services will be negotiated at a later date as requested by the City. Dewberry will utilize FDOT Dwg drawings supplied by the City to depict the proposed improvements. Based on the information referenced above, Dewberry will provide design, FDOT coordination and permitting, bid document preparation, including contact documents and technical specifications for a lump sum fee of \$201,500.00. Please see the attached **Task Order 2022.0X** defining the scope of services (Attachment A). Please see the attached Task Order **2022.0X** defining the scope of services (Attachment



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A). Limited construction administration and inspection services may be negotiated at a later date as requested by the City.

As always we look forward to working with you and your staff and the opportunity to improve the water and sewer distribution systems within the City. Should you have any questions or require additional information in support of this Proposal, do not hesitate to contact me.

Sincerely,
Dewberry Engineers Inc.



José A. Pereira, PE
Senior Associate

Attachments: Attachment A (Task Order – Scope of Services)

cc: Mr. Clifford Wilson III, PE, Vice-President, Dewberry (via email cwilson@dewberry.com)
Mr. Jonathan Sklarski, P.E., Associate Vice-President (via email jSklarski@Dewberry.com)

K:\PROPOSALS\PCB- Beach SR 30A From East Nautilus to Richard Jackson Blvd Utility relocations as a result of FDOT widening and drainage improvements



Attachment A
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This task order is for the purpose of Dewberry Engineers Inc. (Dewberry), as the ENGINEER, to provide engineering services task order for providing the engineering services required in conjunction with the relocation of segments of existing City of Panama City Beach utilities, including potable water, force main and reclaim water main of various pipe diameter sizes that will be impacted by the proposed FDOT S.R. 30A resurfacing and drainage improvements from **East Nautilus Street to Richard Jackson Blvd**. As we understand and is provided by FDOT consultant in a utility conflict matrix, there has been approximately ninety-four (94) plus two (2) additional conflicts that dewberry identified along SR 30A (US 98) utility conflicts with proposed FDOT widening and stormwater improvements. The relocation of the impacted utilities will be for the City of Panama City Beach (City) acting by and through its Council under the **MASTER SERVICES AGREEMENT BETWEEN CITY OF PANAMA CITY BEACH AND DEWBERRY ENGINEERS INC. RELATING POTABLE WATER TRANSMISSION MAINS OVER 12-INCHES IN DIAMTER ENGINEERING SERVICES** dated December 9, 2021.

DESCRIPTION OF ENGINEER'S SERVICES

The services to be performed by Dewberry during the design of the SR 30A Utilities Improvements from East Nautilus Street to Richard Jackson Blvd will consist of one (1) phase as described below.

Phase 1- Design Services

The scope of work for this phase of the project will include the basic services outlined below. The detailed design will culminate in the preparation of plans, specifications and bid documents that depict the character and scope of the project in sufficient detail to enable the City to receive competitive bids from construction contractors.

As we understand and is provided by FDOT consultant in a utility conflict matrix, there has been approximately ninety-six (96) along SR 30A (US 98) utility conflicts with proposed FDOT and are as follow:

A. Conflicts along SR 30AA (US 98):

1. Conflict No. 3, **relocation of approximately 60 feet of 16" water main** that will be in conflict with FDOT proposed drainage pipe at STA 1026+65, 80' LT. Line stops with a bypass feature will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.
2. Conflict No. 4, protect in place 18" force main that may be impacted/conflict with FDOT proposed ditch realignment and side drains at STA 1026+20, 80' LT.
3. Conflict No. 5, protect in place 16" water main that may be impacted/conflict with FDOT proposed ditch realignment and side drains at STA 1026+65, 80' LT.
4. Conflict No. 6, protect in place 24" force main that may be impacted/conflict with FDOT proposed ditch realignment and side drains at STA 1026+65, 86' RT.
5. Conflict No. 7, protect in place approximately 1,230 LF of 20" force main (STA 1029+20 to STA 1038+50), 87' RT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements
6. Conflict No. 10, adjust to grade existing MH cover that is impacted/conflict with FDOT proposed sidewalk at STA 1029+34, 76' RT.

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7. Conflict No. 11, existing 2" and 6" water valve boxes adjustment that will be impacted/conflict with FDOT proposed sidewalk and drainage STA 1029+40, 83' RT. **Segment of abandoned 6" CI water main to be removed and/or fill with flowable concrete fill.**
8. Conflict No. 12, existing **ABANDON approx. 20 LF of 6" CI water main** that will be impacted/conflict with FDOT proposed median drain and side drains at STA 1029+80, 83' RT. **6" line to be filled with flowable concrete fill material.**
9. Conflict No. 13, protect in place approximately 400 LF of 18" force main (STA 1030+00 to STA 1034+00), 81' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements
10. Conflict No. 14, protect in place approximately 400 LF of 24" force main (STA 1030+00 to STA 1034+00), 81' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements
11. Conflict No. 15, protect in place approximately 470 LF of 30" reclaim water main (STA 1030+00 to STA 1034+70), 80' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. A curtesy review of the FDTO plans revealed that **Approximately 500 LF of 30" RW** will need to be relocated, including cut in tees and isolations valves to obtain PCB 42" minimum recommended cover.
12. Conflict No. 16, protect in place approximately 250 LF of 12" and 16" water mains (STA 1031+00 to STA 1032+50, 88' RT) that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements. Based on FDOT plans **approximately 120 LF of 16" WM** will be relocated to provide horizontal separation with proposed storm pipe and inlet structures. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch force main to be relocated while the line is kept in operation.
13. Conflict No. 18, protect in place and/or adjust 2" HDPE reclaim water main (STA 1033+00, 7'RT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new **2" HDPE pipe 220 feet** long will be installed deep by using HDD (trenchless technology).
14. Conflict No. 26, protect in place and/or adjust 2" HDPE (size to be field verified) reclaim water main (STA 1034+84, 6' LT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new **2" HDPE pipe 220 feet** long will be installed deep by using HDD (trenchless technology).
15. Conflict No. 27, protect in place and/or adjust 6" FPVC (size to be field verified) water main (STA 1035+27, 6' LT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 6" FPVC water installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a **new 6" FPVC pipe 220 feet** long will be installed deep by using HDD (trenchless technology).

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16. Conflict No. 32, protect in place or adjust 200 LF of 18" FM (STA 1037+00 to STA 1039+00), 82' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements. A courtesy review showed that approximately 60 feet of 18" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1038+80. Line stops with a bypass feature will be used in the design to allow for that segment of 18-inch force main to be relocated while the line is kept in operation.
17. Conflict No. 36, protect in place 30" reclaim water main (STA 1038+80), 95 LT that may be impacted/conflict with FDOT proposed side drains. Dewberry will review cross sections to ensure proper cover is maintained.
18. Conflict No. 37, protect in place 24" force main (STA 1038+80), 88' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements. Line stops with a bypass feature will be used in the design to allow for that segment of 24-inch force main to be relocated while the line is kept in operation.
19. Conflict No. 38, protect in place and/or adjust 6" FPVC (size to be field verified) water main (STA 1039+89, 7' RT) that may be impacted/conflict with FDOT proposed median drainpipe. Courtesy review of the FDOT plans shows that this must likely is a 6" FPVC water installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 6" FPVC pipe 220 feet long will be installed deep by using HDD (trenchless technology).
20. Conflict No. 43, protect in place or adjust 1,600 LF of 18" FM (STA 1043+00 to STA 1059+00), 70' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 80 feet of 18" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78. In addition, approx. Line stops with a bypass feature will be used in the design to allow for that segment of 18-inch force main to be relocated while the line is kept in operation.
21. Conflict No. 44, protect in place or adjust 1,600 LF of 24" FM (STA 1043+00 to STA 1059+00), 85' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 60 feet of 24" FM may need to be relocated to provide additional cover with proposed ditch around STA 1043+00 and another 80 feet of 24" FM at STA 1048+78 to provide sufficient clearance from proposed drainpipe. Line stops with a bypass feature will be used in the design to allow for that segment of 24-inch force main to be relocated while the line is kept in operation.
22. Conflict No. 45, relocate/adjust approximately 1,650 LF of 30" reclaim water main (STA 1043+00 to STA 1059+00), 80' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Relocate Approximately 1,650 LF of 30" RW including cut in tees and isolations valves to obtain PCB 42" minimum recommended cover.
23. Conflict No. 48, already included above with ITEM 20. Protect in place or adjust 18" FM (STA 1048+78), 74' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. This Conflict is already described above on ITEM 20 that includes approximately 80 feet of 18" FM may need to be relocated to avoid conflict with proposed drainpipe and end section at

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STA 1048+78. Line stops with a bypass feature will be used in the design to allow for that segment of 18-inch force main to be relocated while the line is kept in operation.

24. Conflict No. 49, **already included above with ITEM 21**. protect in place or adjust 24" FM (STA 1048+78), 74' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. This Conflict is already described above on **ITEM 21** that includes **approximately 80 feet of 24" FM** may need to be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78. Line stops with a bypass feature will be used in the design to allow for that segment of 24-inch force main to be relocated while the line is kept in operation.
25. Conflict No. 50, **already included above with ITEM 22**. Protect in place or adjust 30" RW (STA 1048+78), 74' LT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. This Conflict is already described above on **ITEM 22** that includes **approximately 1,650 feet of 30" RW** that needs be relocated to avoid conflict with proposed drainpipe and end section at STA 1048+78.
26. Conflict No. 51, protect in place approximately 16" WM (STA 1048+78), 74' RT that may be impacted/conflict with FDOT proposed 36" drainpipe. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements Based on FDOT plans **approximately 80 LF of 16" WM** may be relocated to provide horizontal separation with proposed 36" storm pipe and end section. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
27. Conflict No. 52, protect in place or adjust 20" FM (STA 1048+78), 89' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that approximately 42" of cover existing between the 20" FM and the bottom of the 36" storm pipe. However, that will need to be clarified during the design. If vertical separation becomes a concern, **60 feet of 20" FM** may need to be relocated to provide additional cover with proposed 36" storm pipe at STA 1048+78, 89' RT. Line stops with a bypass feature will be used in the design to allow for that segment of 20-inch force main to be relocated while the line is kept in operation.
28. Conflict No. 53, protect in place or adjust 4" RW (STA 1048+78), 89' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that sufficient cover between existing 4" RW and proposed 36" storm pipe and end section will not be achieved. **As a result, 80 feet of 4" RW** will need to be relocated to provide satisfactory clearance, including cut in tees and isolations valves.
29. Conflict No. 57, protect in place or adjust 2" FM (STA 1049+68), 61' LT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that proposed 42" drainpipe could be in conflict with existing 2" FM. Dewberry anticipates relocating **approximately 30 LF of 2" FM** including 45 degrees bends and sleeve to eliminated conflict.
30. Conflict No. 58, protect in place or adjust 2" RW (STA 1049+68), 61' LT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review of the FDOT plans shows that proposed 42" drainpipe could be in conflict with existing 2" RW. Dewberry anticipates relocating **approximately 30 LF of 2" RW** including 45 degrees bends and sleeve to eliminated conflict.
31. Conflict No. 60, protect in place and/or adjust 4" PVC (size to be field verified) forcer main (STA 1053+13, 10' RT and 64' RT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 4 PVC FM

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may have been installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 4" FPVC pipe 220 feet long will be installed deep by using HDD (trenchless technology).

32. Conflict No. 61, protect in place or adjust 20" FM (STA 1053+71), 81.44 RT that may be impacted/conflict with FDOT proposed side drains. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 80 feet of 20" FM may need to be relocated to provide additional cover with proposed ditch around STA 1053+00 to provide sufficient clearance from proposed drainpipe. Line stops with a bypass feature will be used in the design to allow for that segment of 20-inch force main to be relocated while the line is kept in operation.
33. Conflict No. 62, protect in place and/or adjust 6" WM valve and fire hydrant to avoid conflict with proposed FDOT sidewalk at (STA 1053+82, 73' RT. Fire hydrant to be relocated away from proposed sidewalk.
34. Conflict No. 65, protect in place approximately 600 feet of 16" WM (STA 1054+00 to STA 1060+04), 86' RT that may be impacted/conflict with FDOT proposed ditch realignment and side drains. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements Based on FDOT plans approximately 60 LF of 16" WM may be relocated to provide horizontal separation with proposed 24" storm pipe at STA 1059+00. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
35. Conflict No. 67, existing water valve box adjustment that will be in the proposed sidewalk by FDOT at STA 1054+45, 75' RT.
36. Conflict No. 68, existing Manhole (ARV) adjustment that will be in the proposed ditch side slope realignment sidewalk by FDOT at STA 1054+45, 87' RT.
37. Conflict No. 69, protect in place 16" WM (STA 1055+73), 87' RT that may be impacted/conflict with FDOT proposed side drainpipe and end section. Dewberry will review cross sections to ensure proper cover is maintained and relocate segments that do not meet minimum cover requirements Based on FDOT plans approximately 80 LF of 16" WM may be relocated to provide horizontal separation with proposed 24" storm pipe at STA 1055+73. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
38. Conflict No. 72, protect in place or adjust 70 LF of 20" FM (STA 1058+30 to STA 1059+00), 87' RT that may be impacted/conflict with FDOT proposed side ditch and structure S-144. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 100 feet of 20" FM may need to be relocated to provide additional horizontal separation with proposed side drainpipe and structure S-144. Line stops with a bypass feature will be used in the design to allow for that segment of 20-inch force main to be relocated while the line is kept in operation.
39. Conflict No. 73, protect in place or adjust 70 LF of 16" FM (STA 1058+30 to STA 1059+00), 87' RT that may be impacted/conflict with FDOT proposed side ditch and structure S-144. Dewberry will review cross sections to ensure proper cover and horizontal separation is maintained and relocate segments that do not meet minimum cover and horizontal Separation requirements. A courtesy review showed that approximately 100 feet of 16" WM may need to be relocated to provide additional horizontal separation with proposed side drainpipe and structure S-144. Line

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stops with a bypass feature will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.

40. Conflict No. 77, protect in place and/or adjust 12" reclaim water main (STA 1059+35, 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 12" RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 12" RW pipe 220 feet long will be installed deep by using HDD (trenchless technology).
41. Conflict No. 78, protect in place and/or adjust 12"PVC water main (STA 1059+35, 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 12" PVC installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. If during design it is determined to be in conflict a new 12" WM pipe 220 feet long will be installed deep by using HDD (trenchless technology).
42. Conflict No. 79, existing sanitary sewer valves box adjustment that will be in the proposed road widening by FDOT at STA 1059+60, 74' LT.
43. Conflict No. 79-A, existing reclaim water valve box adjustment that will be in the proposed sidewalk widening by FDOT at STA 1060+35, 85' LT.
44. Conflict No. 80, protect in place and/or adjust 18" FM (STA 1059+80, 2' RT, LT and 63' LT that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is an 18 FM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, it is in conflict with proposed side 42" drainpipe. It appears that a new 18" FM FPVC HDD 300 feet may be required to make a back tap connection and eliminate possible conflict with 42" storm pipe.
45. Conflict No. 83, protect in place and/or adjust approximately 1,500 feet of 20" FM (STA 1060+60 to STA 1075+60), 63' LT that may be impacted/conflict with FDOT proposed drainage system. Courtesy review of the FDOT plans preliminarily shows sufficient horizontal distance for the proposed 42" and 48" drainpipes and structures, however, FDOT contractor MUST require caution to ensure protection of the existing 20" FM. However, it is in conflict with proposed side 42" and 48" drainpipes, several hundred of pipe may need to be relocated to provide proper horizontal separation.
46. Combined conflicts No. 85 and 88, protect in place or adjust 950 LF of 16" DIP WM (STA 1062+00 to STA 1071+50), 69' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review showed that approximately six (6) locations at STA 1062+00, 1063+50, 1065+00, 1067+00, 1068+50) will be in conflict. As result, 950 feet of 16" WM will be relocated including line stops with a bypass feature at each end will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.
47. Conflict No. 92, protect in place or adjust 6" WM (STA 1074+23), 92' RT that may be impacted/conflict with FDOT proposed mitered end pipe extension. A courtesy review of the FDOT cross section showed that approximately 48" of cover existing between 6" WM and proposed 2-30" storm pipe mitered ends. Therefore, no relocation is anticipated.
48. Conflict No. 93, protect in place or adjust 2,604 LF of 16" DIP WM (STA 1074+48 to STA 1100+52), 64' RT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review showed that approximately 19 structures and new drainpipe will impact the existing 16" water main. As a result, the whole length of 2,604 of existing of 16" WM will be

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relocated including line stops with a bypass feature at each end will be used in the design to allow for that segment of 16" water main to be relocated while the line is kept in operation.

49. Conflict No. 94, protect in place or adjust 830 LF of 6" WM (STA 1075+00 to STA 1083+30), 67' LT that may be impacted/conflict with FDOT proposed drainage system. A courtesy review showed that approximately 830 LF of 6" WM will need to be relocated to avoid conflict with proposed 48" drainpipe, including line stops equipped with a bypass feature at each end will be used in the design to allow for that segment of 6" water main to be relocated while the line is kept in operation. Line stops with a bypass feature at each end will be used in the design to allow for that segment of 6" WM to remain in service.
50. Conflict No. 96, protect in place and/or adjust 1,110 feet of 20" FM (STA 1075+57 to STA 1086+60), 79' LT that may be impacted/conflict with FDOT proposed drainage system. Courtesy review of the FDOT plans shows that approximately 1,110 LF of 20" FM will be required to be relocated from STA 1075+30 to STA 1077+30 to avoid conflict with proposed 36" storm pipe and structures including line stops with a bypass feature at each end will be used in the design to allow for that segment of 20" FM.
51. Conflict No. 97, protect in place and/or adjust existing 24" RW (STA 1075+57 to STA 1086+60), 97' LT that may be impacted/conflict with FDOT proposed ditch realignment, structures and side drains. A courtesy review of the FDOT plans shows that at a minimum two (2) segments of 24" RW totaling 425 LF will need to be relocated to avoid conflict with proposed 36" storm pipe. Those segments are from STA 1075+57 to STA 1077+00 and from STA 1077+75 to STA 108+50. Cut in tees, fittings and isolation valves will be used in the design.
52. Conflict No. 98, existing 6" gate valves on water main to be adjusted impacted by proposed FDOT sidewalk and side drains. Near STA 1075+57, 64' RT.
53. Conflict No. 101, existing 6" gate valves on water main to be adjusted impacted by proposed FDOT sidewalk and side drains. Near STA 1079+00, 64' RT.
54. Conflict No. 105, existing 8" gate valves on water main to be adjusted impacted by proposed FDOT sidewalk and side drains. Near STA 1082+03, 95' RT.
55. Conflict No. 106, protect in place and/or adjust 16" reclaim water (RW) main (STA 1082+44, 81' LT that may be impacted/conflict with FDOT proposed median and side drainpipes. A courtesy review of the FDOT plans shows that this must likely is a 16" RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case with proposed 36" and 48" side drainpipes. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipes and brought up with fittings and connect to existing 24" RW.
56. Conflict No. 110, protect in place and/or adjust 6" PVC water main (STA 1083+40, 63' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. Courtesy review of the FDOT plans shows that this must likely is a 6" PVC installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case with proposed 36" and 48" side drainpipes. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipes and brought up with fittings and connect to existing.

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57. Conflict No. 112, protect in place and/or adjust 6" WM valve STA 1085+83, 90' RT to fire hydrant to avoid conflict with proposed FDOT ditch realignment at (STA 1085+83, 90' RT. Approximately 40 LF of 6" WM will be relocated and connected to existing FH.
58. Conflict No. 113, protect in place and/or adjust 6" WM valve STA 1086+38, 88' RT to back flow preventer to avoid conflict with proposed FDOT ditch realignment at (STA 1086+38, 88' RT. Approximately 40 LF of 6" WM will be relocated and connected to existing back flow prevented.
59. Conflict No. 114, protect in place and/or adjust existing 20" FM at STA 1086+90, 79' LT that will be impacted by three (3) storm drainpipes to Pond located north. A courtesy review of the FDOT plans shows that the proposed 72" pipes will be in conflict and as a result approximately 120 LF of 20" FM will be required to be relocated from 1086+40 to STA 1087+60. Line stops with a bypass feature at each end will be used in the design to allow for that segment of 20" FM to remain in service.
60. Conflict No. 115, protect in place and/or adjust existing 24" RW at STA 1087+15, 89' LT that will be impacted by three (3) storm drainpipes to Pond located north. A courtesy review of the FDOT plans shows that the proposed 72" pipes will be in conflict and as a result approximately 120 LF of 24" RW will be required to be relocated from 1086+40 to STA 1087+60. Cut in tees, isolation valves and fittings at each end will be used in the design.
61. Conflict No. 116, protect in place and/or adjust existing 20" PVC FM from STA 1087+15 to STA 1106+10, 80' LT that will be impacted by drainage system. A courtesy review of the FDOT plans shows that a conflict is expected at STA 1106+10 with proposed FDOT 29" x45" side drain and end section. Approximately 60 feet of 20" FM will need to be relocate to provide sufficient cover under the proposed drainpipe. Line stops with a bypass feature at each end will be used in the design to allow for that segment of 20" FM to remain in service.
62. Conflict No. 117, protect in place and/or adjust 6" WM valve to fire hydrant to avoid conflict with proposed FDOT ditch realignment at (STA 1089+16, 63' RT. Approximately 40 LF of 6" WM will be relocated and connected to existing FH.
63. Conflict No. 120, protect in place and/or adjust existing 20" PVC FM from STA 1091+12 to STA 1091+60, 90' RT that will be impacted by side drain and ditch realignment. A courtesy review of the FDOT plans shows that a conflict may not be expected by the proposed side drain and ditch realignment.
64. Conflict No. 123, protect in place and/or adjust 6" WM STA 1096+17, 63' RT valve impacted by proposed FDOT sidewalk and drainage.
65. Conflict No. 126, protect in place and/or adjust 4" HDPE FM (STA 1097+75, 62' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 4" RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case when crossing proposed 36" storm side drainpipe. As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist. If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipe and brought up with fittings and connect to existing 20" FM paralleling U.S. 98.
66. Conflict No. 127, protect in place and/or adjust 6" PVC WM (STA 1097+93, 62' LT) that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 6" FPVC WM installed by HDD and could be deep

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enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case when crossing proposed 36" storm side drainpipe. **As a result, it is imperative that FDOT consultant performs additional SUE at this location to determine if a conflict exist.** If during design it is determined to be in conflict with the existing bore may be intercepted and dropped below the existing storm pipe and brought up with fittings and connect to existing. On the north side of U.S.. 98.

67. Conflict No. 128, protect in place and/or adjust 6" WM valves STA 1098+00, 60' RT impacted by proposed FDOT sidewalk and drainage.
68. Conflict No. 131, protect in place and/or adjust existing 20" PVC FM STA 1106+20, 85' LT that will be impacted by drainage. This conflict was addressed above on ITEM 116.
69. Conflict No. 133, protect in place approximately 820 LF of 20" PVC FM from STA 1106+50 to STA 1114+70, 100' RT that will be impacted by side drain and ditch realignment. A courtesy review of the FDOT plans shows that a conflict exists at 1106+50 requiring relocation of **approximately 80 LF of 20" FM** under the proposed FDOT three (3) 42" pipe extensions. may not be expected by the proposed side drain and ditch realignment. At STA 1112+50 a proposed FDOT structure may be within 10 feet of the existing 20" FM. FDOT contractor SHALL exercise careful exaction and installation of structure to protect the integrity of the 20" FM.
70. Conflict No. 136, protect in place and/or approximately 655 LF of 20" RW from STA 1106+63 to STA 1113+18, 88' RT that will be impacted by proposed FDOT drainage. A courtesy review of the FDOT plans shows that the **approximately 120 LF of 20" RW** will be required to be relocated from 1105+80 to 1107+00. Cut in tees, isolation valves and fittings at each end will be used in the design.
71. Conflict No. 137, protect in place and/or adjust approximately 1,881 LF of 16" DIP WM from STA 1107+19 to STA 1113+18, 87' LT that will be impacted by proposed FDOT inlets and drainpipe and mast arm #3 and #4.drainage. A courtesy review of the FDOT plans shows that the **approximately 120 LF of 20" RW** will be required to be relocated from 101105+80 to 1107+00. In addition, existing 16" DIP WM will be relocated north **approximate 270 LF from STA 110+50 to STA 1113+18.** Line stops with a bypass feature at each end of the two segments described above will be used in the design to allow for that segment of 16" WM to remain in service. The 16" WM as shown will remain under the pavement as no room south of the proposed drainage pipe paralleling U.S. 98 exist. **Also, strongly suggest that FDOT relocated Mast arm at southwest corner of Alf Coleman Rd and U.S. 98 to avoid conflict with 16" WM as there is not room for water line relocation.**
72. Conflict No. 138, protect in place and/or adjust 20" HDPE FM (STA 1113+04, 87' RT that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 20" HDPE FM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. However, the same may not be the case when crossing proposed 30" storm side drainpipes on both sides of U.S. 98. The FDOT plans do show that the proposed 30" drainpipes are installed 12 to 24 ' higher than existing force main so sufficient clearance could exist. FDOT cross section at STA 1113+00 do show 3- force main pipes on the right side which do not match plan view. Strongly suggest FDOT consultant to confirm prior to Dewberry design.
73. Conflict No. 141, protect in place and/or adjust 16" HDPE RW (STA 1113+58, 74' LT that may be impacted/conflict with FDOT proposed median and side drainpipes. A Courtesy review of the FDOT plans shows that this must likely is a 16" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe. **The existing 16" RW HDD may be deep enough on both ends of U.S. 98 but strongly suggest FDOT to perform additional**

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SUE at those crossings to determine clearance. The same will be with proposed mast arm # 3 at the NW corner of Alf Coleman Rd and US 98 since it proposed to be installed on top of the existing 16" RW.

74. Conflict No. 142, protect in place and/or adjust 20" PVC FM (STA 1113+80, 97' RT that may be impacted/conflict with FDOT proposed arm mast # 3. **Based on FDOT SUE information, the 20" FM is 4.55 feet deep which must likely be in conflict. Relocating the existing 20" FM will be required shutting down traffic at the intersection of Alf Coleman Rd and U.S. 98 to shift line and install the proper pipe join mechanical restrains. Strongly suggest the City request mast arm # 3 to be shifted to miss the 20" FM.**
75. Conflict No. 145, protect in place and/or adjust 6" FM gate valve STA 1113+67, 78" LT impacted by proposed FDOT widening.
76. Conflict No. 146, protect in place and/or adjust 20" PVC FM (STA 1113+80, 97' RT that may be impacted/conflict with FDOT proposed 18" drainpipe. A courtesy review of the FDOT plans, cross section that sufficient clearance appears to exist.
77. Conflict No. 147, protect in place and/or adjust 12" WM valve STA 1113+80, 97' RT impacted by proposed FDOT widening.
78. Conflict No. 148, protect in place and/or adjust 12" PVC RW (STA 1113+81, 90' RT to 115' RT that may be impacted/conflict with FDOT proposed arm mast # 3 and inlet and drainpipe. **The existing 12" RW across Alf Coleman Rd may be installed by HDD which in that case could be deep enough. Record drawings for this line will be required from the City. Furthermore, strongly suggest FDOT consultant performing additional SUE to determine 12" RW depth in the areas of conflict. Once that information is provided to Dewberry, conflict resolution will be designed.**
79. Conflict No. 149, protect in place and/or adjust 18" and 20" FM gate valve STA 1114+60, 101' RT impacted by FDOT proposed inlet and drainpipe. **Valves cannot be relocated. FDOT contractor SHALL exercise carefulness while constructing proposed improvements in this area.**
80. Conflict No. 154, protect in place and/or adjust 12" PVC WM (STA 1114+75, 60' LT that may be impacted/conflict with FDOT proposed inlet and drainpipe. A Courtesy review of the FDOT plans shows that this must likely is a 12" FPVC WM installed by HDD and could be deep enough to avoid conflict with FDOT proposed drainpipe. **However, strongly suggest FDOT consultant performing additional SUE to determine 12" WM depth in the areas of conflict. Once that information is provided to Dewberry, conflict resolution will be designed.**
81. Conflict No. 155, protect in place and/or adjust 12" and 16" WM gate valves STA 1114+75, 95' LT impacted by FDOT proposed widening.
82. Conflict No. 159, protect in place and/or adjust 20" PVC FM (STA 1115+28, 82' LT that may be impacted/conflict with FDOT proposed drainage. A courtesy review of the FDOT plans, cross section that sufficient vertical clearance appears to exist. **In addition, structure S-266 appears to be designed with approx. 5 feet horizontal separation. If the existing 20" FM is any closer than that it will be impacted. Strongly suggest FDOT consultant to perform SUE at this location and survey location to determine potential conflict if any.**
83. Conflict No. 160, protect in place and/or adjust 2" HDPE RW (STA 1120+90, 17 RT that may be impacted/conflict with FDOT proposed median and side drains. A Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to

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avoid conflict with FDOT proposed median drainpipe. **However, it will be in conflict with structure S-276. A new 2" HDPE HDD is proposed to be install approximately 250 LF long and connected at each end.**

84. **Conflict No. 160-A not identified on FDOT matrix**, protect in place and/or adjust 16" WM (STA 1121+00, 81' RT that is impacted/conflict with FDOT proposed structure 276 and 24" drainpipe. A courtesy review of the FDOT plans, cross section 1121+00 clearly shows that proposed 24" pipe will have approx. 6" that sufficient vertical clearance appears to exist. Furthermore, structure S-276 and S-277 other structure south is too close. **Proposed relocating 200 LF of 16" WM to the south (STA 1120+60 to STA 1122+60).** Existing BFO and BT are in the way and need to be consider during 16" WM relocation. There also appears to be no sufficient horizontal separation to S-279. Line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.
85. Conflict No. 161, protect in place and/or adjust 2" water meter STA 1121+00, 66' LT impacted by FDOT proposed widening. **Proposed relocating water meter assembly and box.**
86. **Conflict No. 161-A not identified on FDOT matrix**, protect in place and/or adjust 20" RW (STA 1122+00 to STA 1123+60), 81' LT that is impacted/conflict with FDOT proposed ditch realignment and headwall with pipes at STA 1123+15, 90' LT. A courtesy review of the FDOT plans, cross section 1123+05 clearly shows that existing 20" RW will be in conflict with proposed head wall and pipes. The same is for the ditch realignments not having sufficient cover. **Proposed relocating 200 LF of 20" RW to the south (STA 1122+50 to STA 1123+50, including cut in tees, valves and fittings).**
87. Conflict No. 163, protect in place and/or adjust 24" WM (STA 1122+65, 81' RT that may be impacted/conflict with FDOT proposed side drains. A Courtesy review of the FDOT plans shows that this must likely is a 24" FPVC installed by HDD and could be deep enough to avoid conflict with FDOT proposed 24" side drainpipe. **However, strongly suggest FDOT consultant to perform SUE at this location to confirm.**
88. Conflict No. 168, protect in place and/or adjust 2" HDPE RW (STA 1126+60, 77' LT that may be impacted/conflict with FDOT proposed ditch realignment. A Courtesy review of the FDOT plans shows that this must likely is a 2" HDPE RW installed by HDD and could be deep enough to avoid conflict with FDOT proposed ditch. **However, strongly suggest FDOT consultant to perform SUE at this location to confirm. If proper cover can you achieve, then a new 2" HDPE HDD is proposed to be install approximately 250 LF long and connected at each end.**
89. Conflict No. 169, protect in place and/or adjust 2" RW valve STA 1127+09, 62' RT impacted by FDOT proposed widening.
90. Conflict No. 172, protect in place and/or adjust approx. 580 LF of 20" RW (STA 1125+00 to STA 1130+80), 81' LT that is impacted/conflict with FDOT ditch realignment and headwall at STA 1130+55. **Proposed relocating 580 LF of 20" RW to the south (STA 1125+00 to STA 1130+80, including cut in tees, valves and fittings).**
91. Conflict No. 174, protect in place and/or adjust existing 16" DIP WM (STA 1130+50, 78' RT that is impacted/conflict with FDOT headwall extension. **Proposed relocating 80 LF of 16" WM, including line stops with a bypass feature will be used in the design to allow for that segment of 16-inch water main to be relocated while the line is kept in operation.**
92. Conflict No. 175, protect in place and/or adjust 6" PVC WM (STA 1132+22, 5' RT that may be impacted/conflict with FDOT proposed median drainpipe. A Courtesy review of the FDOT plans

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shows that this must likely is a 6" FPVC WM installed by HDD and could be deep enough to avoid conflict with FDOT proposed median drainpipe

- 93. Conflict No. 176, protect in place and/or adjust 12" and 16" WM gate valves STA 1144+05, 89' LT impacted by FDOT proposed widening.
- 94. Conflict No. 178, protect in place 12" PVC WM (STA 1145+30, 102' LT that may be impacted/conflict with proposed light pole 107. **Strongly suggest relocation of light pole 107.**
- 95. Conflict No. 179, protect in place 12" PVC WM (STA 1145+30, 82' RT that may be impacted/conflict with light controller. **Strongly suggest relocation light controller.**

It is also our understanding that limited additional topographic survey will be performed on this project to pick up additional field information necessary for the relocation of utilities that may not be shown on the FDOT plans furnished by the City. Furthermore, it is the City's desire to design the proposed improvements utilizing FDOT drawings as the base platform for the improvements. Rather than using PDF drawings we recommend the City that Dwg drawings be obtained and provided to Dewberry. Dewberry will also assist the City with the preparation of the contract documents and technical specifications. Ultimately, this phase will culminate with the development of construction drawings that show the character and scope of the work to be performed. The anticipated construction drawings include:

- Cover Sheet
- General Note Sheet
- General Construction Notes
- Relocated Utility Plan Sheets using FDOT,s drawings as the base of the design.
- Panama City Beach Standard Detail Sheets for the Impacted Utilities.
- MOT Sheets.

PROJECT SCHEDULE

We anticipate performing Phase 1 design services outlined above within One Hundred and eighty (180) days following the City authorization to proceed with the project.

COMPENSATION

1. Phase 1, Design Services :	\$195,000.00
Total Lump Sum Fee:	\$195,000.00
2. Allowance no to exceed amount for Subsurface Utility Engineering (SUE)	<u>\$ 6,500.00</u>

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IN WITNESS WHEREOF, the parties hereto have caused this Task Order to be executed by their undersigned officials as duly authorized.

DEWBERRY

203 Aberdeen Parkway
Panama City, Florida 32405

By: _____

Name and Title: Jose A. Pereira, P.E.
Senior Associate

Witnessed: _____

Date: _____

CITY OF PANAMA CITY BEACH, FLORIDA

110 South Arnold Road
Panama City Beach, Florida 32413

By:  _____

Name and Title: Drew R. Whitman
City Manager

Witnessed:  _____

Date: 08/17/22