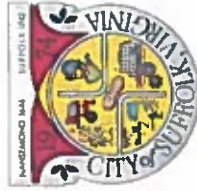


# DEPARTMENT OF PUBLIC UTILITIES CITY OF SUFFOLK, VIRGINIA WILROY ROAD 12-INCH WATER MAIN EXTENSION IFB# 20038-AG NOVEMBER 2019



### PROJECT CONTACT LIST

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| <p><b>WATER</b><br/>CITY OF SUFFOLK PUBLIC UTILITIES<br/>442 WEST WASHINGTON ST<br/>SUFFOLK, VA, 23434<br/>CONTACT: ADAM JAMES</p>                           | <p><b>ENGINEER</b><br/>KIMLEY-HORN AND ASSOCIATES, INC.<br/>4000 WILSON STREET, SUITE 1000<br/>VIRGINIA BEACH, VA 23462<br/>(757) 213-8600<br/>CONTACT: RYAN MURPHY</p>  |
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| <p><b>GAS COMPABLE TRANSMISSION</b><br/>CITY OF SUFFOLK PUBLIC UTILITIES<br/>1601-713-2486<br/>CONTACT: CEDRIC KLIEN</p>                                     | <p><b>CITY OF PORTSMOUTH WATER MAIN</b><br/>CITY OF PORTSMOUTH PUBLIC UTILITIES<br/>(757) 235-2606<br/>CONTACT: PEGGY WYATT</p>  |
| <p><b>POWER COMPANY</b><br/>DOWNSON ENERGY<br/>1707 W. BRENDSHAUS STREET<br/>SUFFOLK, VA 23401, NC 27865<br/>(252) 331-8111<br/>CONTACT: LUJUAN CREEDORP</p> | <p><b>CITY OF ROYAL OAK WATER MAIN</b><br/>CITY OF ROYAL OAK PUBLIC UTILITIES<br/>1000 WILSON STREET, SUITE 1000<br/>VIRGINIA BEACH, VA 23462-7015<br/>CONTACT: (757) 460-7072<br/>CORRECTIVE UTILITY (757) 460-3600<br/>CONTACT: (757) 460-3600</p> |
| <p><b>TELEPHONE COMPANY</b><br/>VERIZON<br/>2920 ELKHURST LANE<br/>SUFFOLK, VA 23401<br/>(757) 667-2700<br/>CONTACT: JACKIE GARRETT</p>                      |  |



**PROJECT SITE**

WILROY ROAD 12-INCH WATER MAIN EXTENSION	
SHEET NUMBER	DESCRIPTION
1	G-0 COVER SHEET & SITE LOCATION
2	G-1 GENERAL NOTES
3	G-1 PLAN AND PROFILE STA 10+00 TO STA 14+00, STA 20+00 TO 20+93
4	G-2 PLAN AND PROFILE STA 14+00 TO 19+23
5	C-2 WATER SYSTEM DETAILS
6	C-3 TRENCH DETAILS
7	C-4 EROSION AND SEDIMENT CONTROL DETAILS
8	ES-1 EROSION AND SEDIMENT CONTROL NARRATIVE
9	1-1 TRAFFIC CONTROL NOTES AND DETAILS
10	1-2 DETOUR PLAN DVC DRIVE

ESTIMATED AREA	0.27 ACRES
PERMITS ACCRUED	PERMIT NUMBER

PRIOR TO CONSTRUCTION CONTRACTOR SHALL CALL "MISS UTILITY" OF VIRGINIA DIAL - 811 FOR LOCATION OF UNDERGROUND UTILITIES

**Kimley»Horn**  
© 2019 KIMLEY-HORN AND ASSOCIATES, INC. 23442  
4525 WILSON STREET, SUITE 1000, VIRGINIA BEACH, VA 23462  
PHONE: 757-460-3600 WWW.KIMLEY-HORN.COM



PROJECT NUMBER	REVISIONS	DATE	BY
117018057		11/7/19	
REVIEWED: <i>Paul G. Gagnier</i>		DATE: 11/13/19	
DIRECTOR, PUBLIC UTILITIES			

**GENERAL NOTES:**

1. THE CITY OF SUFFOLK WILL BE RESPONSIBLE FOR THE CURRENT DESIGN OF THE PROJECT. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND LOCATIONS OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED OR MODIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED OR MODIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND STRUCTURES TO BE REMOVED OR MODIFIED.
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**ABBREVIATIONS**

1. AC	Asphalt Concrete
2. AD	Asphalt
3. AL	Aluminum
4. AN	Asphalt Nails
5. AS	Asphalt Seal
6. AT	Asphalt Treatment
7. BA	Bent-Away
8. BC	Bituminous Concrete
9. BF	Bituminous Finish
10. BG	Bituminous Gravel
11. BH	Bituminous Hydraulic Cement Mortar
12. BI	Bituminous Impregnated
13. BJ	Bituminous Joint Compound
14. BK	Bituminous Key
15. BL	Bituminous Lining
16. BM	Bituminous Membrane
17. BN	Bituminous Non-Solvent
18. BO	Bituminous Oxidized
19. BP	Bituminous Prime
20. BQ	Bituminous Quaternary
21. BR	Bituminous Resin
22. BS	Bituminous Sealant
23. BT	Bituminous Tack Coat
24. BU	Bituminous Underlayment
25. BV	Bituminous Vapor Barrier
26. BW	Bituminous Waterproofing
27. BX	Bituminous Wax
28. BY	Bituminous Yarn
29. BZ	Bituminous Zirconium Oxide
30. CA	Calcium Asphalt Emulsion
31. CB	Calcium Bituminous
32. CC	Calcium Chloride
33. CD	Calcium Hydroxide
34. CE	Calcium Sulfate
35. CF	Calcium Sulfate Hemihydrate
36. CG	Calcium Sulfate Dihydrate
37. CH	Calcium Hydroxide
38. CI	Calcium Iodide
39. CJ	Calcium Nitrate
40. CK	Calcium Oxide
41. CL	Calcium Sulfate
42. CM	Calcium Magnesium Silicate
43. CN	Calcium Nitrate
44. CO	Calcium Oxide
45. CP	Calcium Phosphate
46. CQ	Calcium Sulfate
47. CR	Calcium Sulfate Hemihydrate
48. CS	Calcium Sulfate Dihydrate
49. CT	Calcium Tetraborate
50. CU	Copper
51. CV	Copper Chloride
52. CW	Copper Sulfate
53. CX	Copper Oxide
54. CY	Copper Hydroxide
55. CZ	Copper Zinc Alloy
56. DA	Ductile Asphalt
57. DB	Ductile Bituminous
58. DC	Ductile Concrete
59. DD	Ductile Mortar
60. DE	Ductile Plaster
61. DF	Ductile Sealant
62. DG	Ductile Grout
63. DH	Ductile Hydraulic Cement Mortar
64. DI	Ductile Impregnated
65. DJ	Ductile Joint Compound
66. DK	Ductile Key
67. DL	Ductile Lining
68. DM	Ductile Membrane
69. DN	Ductile Non-Solvent
70. DO	Ductile Oxidized
71. DP	Ductile Prime
72. DQ	Ductile Quaternary
73. DR	Ductile Resin
74. DS	Ductile Sealant
75. DT	Ductile Tack Coat
76. DU	Ductile Underlayment
77. DV	Ductile Vapor Barrier
78. DW	Ductile Waterproofing
79. DX	Ductile Wax
80. DY	Ductile Yarn
81. DZ	Ductile Zirconium Oxide
82. EA	Epoxy Asphalt Emulsion
83. EB	Epoxy Bituminous
84. EC	Epoxy Concrete
85. ED	Epoxy Mortar
86. EE	Epoxy Plaster
87. EF	Epoxy Sealant
88. EG	Epoxy Grout
89. EH	Epoxy Hydraulic Cement Mortar
90. EI	Epoxy Impregnated
91. EJ	Epoxy Joint Compound
92. EK	Epoxy Key
93. EL	Epoxy Lining
94. EM	Epoxy Membrane
95. EN	Epoxy Non-Solvent
96. EO	Epoxy Oxidized
97. EP	Epoxy Prime
98. EQ	Epoxy Quaternary
99. ER	Epoxy Resin
100. ES	Epoxy Sealant
101. ET	Epoxy Tack Coat
102. EU	Epoxy Underlayment
103. EV	Epoxy Vapor Barrier
104. EW	Epoxy Waterproofing
105. EX	Epoxy Wax
106. EY	Epoxy Yarn
107. EZ	Epoxy Zirconium Oxide
108. FA	Fabric Asphalt Emulsion
109. FB	Fabric Bituminous
110. FC	Fabric Concrete
111. FD	Fabric Mortar
112. FE	Fabric Plaster
113. FF	Fabric Sealant
114. FG	Fabric Grout
115. FH	Fabric Hydraulic Cement Mortar
116. FI	Fabric Impregnated
117. FJ	Fabric Joint Compound
118. FK	Fabric Key
119. FL	Fabric Lining
120. FM	Fabric Membrane
121. FN	Fabric Non-Solvent
122. FO	Fabric Oxidized
123. FP	Fabric Prime
124. FQ	Fabric Quaternary
125. FR	Fabric Resin
126. FS	Fabric Sealant
127. FT	Fabric Tack Coat
128. FU	Fabric Underlayment
129. FV	Fabric Vapor Barrier
130. FW	Fabric Waterproofing
131. FX	Fabric Wax
132. FY	Fabric Yarn
133. FZ	Fabric Zirconium Oxide
134. GA	Glass Asphalt Emulsion
135. GB	Glass Bituminous
136. GC	Glass Concrete
137. GD	Glass Mortar
138. GE	Glass Plaster
139. GF	Glass Sealant
140. GG	Glass Grout
141. GH	Glass Hydraulic Cement Mortar
142. GI	Glass Impregnated
143. GJ	Glass Joint Compound
144. GK	Glass Key
145. GL	Glass Lining
146. GM	Glass Membrane
147. GN	Glass Non-Solvent
148. GO	Glass Oxidized
149. GP	Glass Prime
150. GQ	Glass Quaternary
151. GR	Glass Resin
152. GS	Glass Sealant
153. GT	Glass Tack Coat
154. GU	Glass Underlayment
155. GV	Glass Vapor Barrier
156. GW	Glass Waterproofing
157. GX	Glass Wax
158. GY	Glass Yarn
159. GZ	Glass Zirconium Oxide
160. HA	High Asphalt Emulsion
161. HB	High Bituminous
162. HC	High Concrete
163. HD	High Mortar
164. HE	High Plaster
165. HF	High Sealant
166. HG	High Grout
167. HH	High Hydraulic Cement Mortar
168. HI	High Impregnated
169. HJ	High Joint Compound
170. HK	High Key
171. HL	High Lining
172. HM	High Membrane
173. HN	High Non-Solvent
174. HO	High Oxidized
175. HP	High Prime
176. HQ	High Quaternary
177. HR	High Resin
178. HS	High Sealant
179. HT	High Tack Coat
180. HU	High Underlayment
181. HV	High Vapor Barrier
182. HW	High Waterproofing
183. HX	High Wax
184. HY	High Yarn
185. HZ	High Zirconium Oxide
186. IA	Intermediate Asphalt Emulsion
187. IB	Intermediate Bituminous
188. IC	Intermediate Concrete
189. ID	Intermediate Mortar
190. IE	Intermediate Plaster
191. IF	Intermediate Sealant
192. IG	Intermediate Grout
193. IH	Intermediate Hydraulic Cement Mortar
194. II	Intermediate Impregnated
195. IJ	Intermediate Joint Compound
196. IK	Intermediate Key
197. IL	Intermediate Lining
198. IM	Intermediate Membrane
199. IN	Intermediate Non-Solvent
200. IO	Intermediate Oxidized
201. IP	Intermediate Prime
202. IQ	Intermediate Quaternary
203. IR	Intermediate Resin
204. IS	Intermediate Sealant
205. IT	Intermediate Tack Coat
206. IU	Intermediate Underlayment
207. IV	Intermediate Vapor Barrier
208. IW	Intermediate Waterproofing
209. IX	Intermediate Wax
210. IY	Intermediate Yarn
211. IZ	Intermediate Zirconium Oxide
212. JA	Joint Asphalt Emulsion
213. JB	Joint Bituminous
214. JC	Joint Concrete
215. JD	Joint Mortar
216. JE	Joint Plaster
217. JF	Joint Sealant
218. JG	Joint Grout
219. JH	Joint Hydraulic Cement Mortar
220. JI	Joint Impregnated
221. JJ	Joint Joint Compound
222. JK	Joint Key
223. JL	Joint Lining
224. JM	Joint Membrane
225. JN	Joint Non-Solvent
226. JO	Joint Oxidized
227. JP	Joint Prime
228. JQ	Joint Quaternary
229. JR	Joint Resin
230. JS	Joint Sealant
231. JT	Joint Tack Coat
232. JU	Joint Underlayment
233. JV	Joint Vapor Barrier
234. JW	Joint Waterproofing
235. JX	Joint Wax
236. JY	Joint Yarn
237. JZ	Joint Zirconium Oxide
238. KA	Key Asphalt Emulsion
239. KB	Key Bituminous
240. KC	Key Concrete
241. KD	Key Mortar
242. KE	Key Plaster
243. KF	Key Sealant
244. KG	Key Grout
245. KH	Key Hydraulic Cement Mortar
246. KI	Key Impregnated
247. KJ	Key Joint Compound
248. KK	Key Key
249. KL	Key Lining
250. KM	Key Membrane
251. KN	Key Non-Solvent
252. KO	Key Oxidized
253. KP	Key Prime
254. KQ	Key Quaternary
255. KR	Key Resin
256. KS	Key Sealant
257. KT	Key Tack Coat
258. KU	Key Underlayment
259. KV	Key Vapor Barrier
260. KW	Key Waterproofing
261. KX	Key Wax
262. KY	Key Yarn
263. KZ	Key Zirconium Oxide
264. LA	Liquid Asphalt Emulsion
265. LB	Liquid Bituminous
266. LC	Liquid Concrete
267. LD	Liquid Mortar
268. LE	Liquid Plaster
269. LF	Liquid Sealant
270. LG	Liquid Grout
271. LH	Liquid Hydraulic Cement Mortar
272. LI	Liquid Impregnated
273. LJ	Liquid Joint Compound
274. LK	Liquid Key
275. LL	Liquid Lining
276. LM	Liquid Membrane
277. LN	Liquid Non-Solvent
278. LO	Liquid Oxidized
279. LP	Liquid Prime
280. LQ	Liquid Quaternary
281. LR	Liquid Resin
282. LS	Liquid Sealant
283. LT	Liquid Tack Coat
284. LU	Liquid Underlayment
285. LV	Liquid Vapor Barrier
286. LW	Liquid Waterproofing
287. LX	Liquid Wax
288. LY	Liquid Yarn
289. LZ	Liquid Zirconium Oxide
290. MA	Medium Asphalt Emulsion
291. MB	Medium Bituminous
292. MC	Medium Concrete
293. MD	Medium Mortar
294. ME	Medium Plaster
295. MF	Medium Sealant
296. MG	Medium Grout
297. MH	Medium Hydraulic Cement Mortar
298. MI	Medium Impregnated
299. MJ	Medium Joint Compound
300. MK	Medium Key
301. ML	Medium Lining
302. MM	Medium Membrane
303. MN	Medium Non-Solvent
304. MO	Medium Oxidized
305. MP	Medium Prime
306. MQ	Medium Quaternary
307. MR	Medium Resin
308. MS	Medium Sealant
309. MT	Medium Tack Coat
310. MU	Medium Underlayment
311. MV	Medium Vapor Barrier
312. MW	Medium Waterproofing
313. MX	Medium Wax
314. MY	Medium Yarn
315. MZ	Medium Zirconium Oxide
316. NA	Non-Asphalt Emulsion
317. NB	Non-Bituminous
318. NC	Non-Concrete
319. ND	Non-Mortar
320. NE	Non-Plaster
321. NF	Non-Sealant
322. NG	Non-Grout
323. NH	Non-Hydraulic Cement Mortar

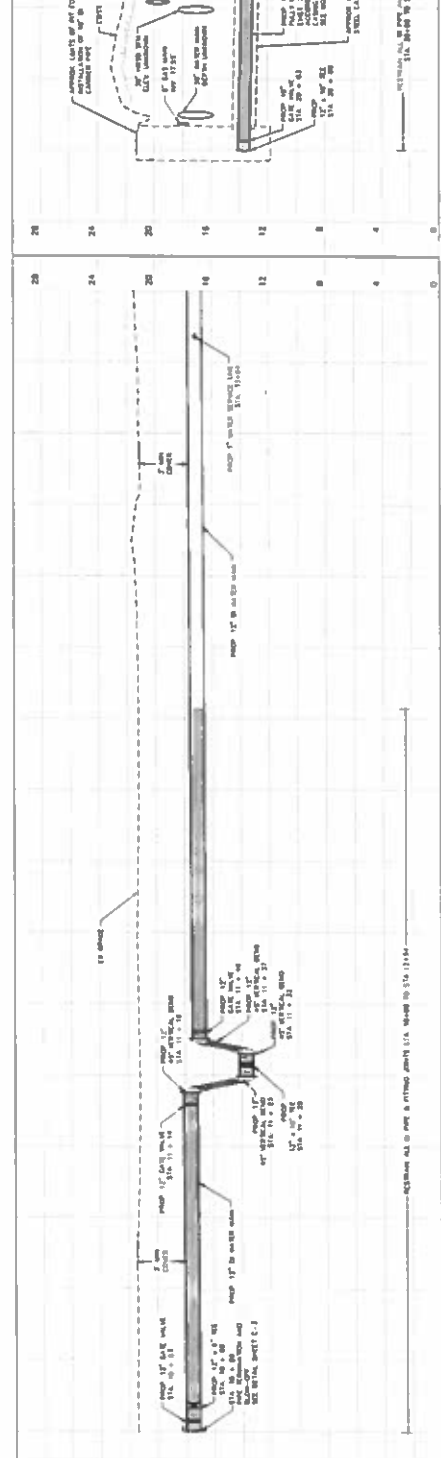
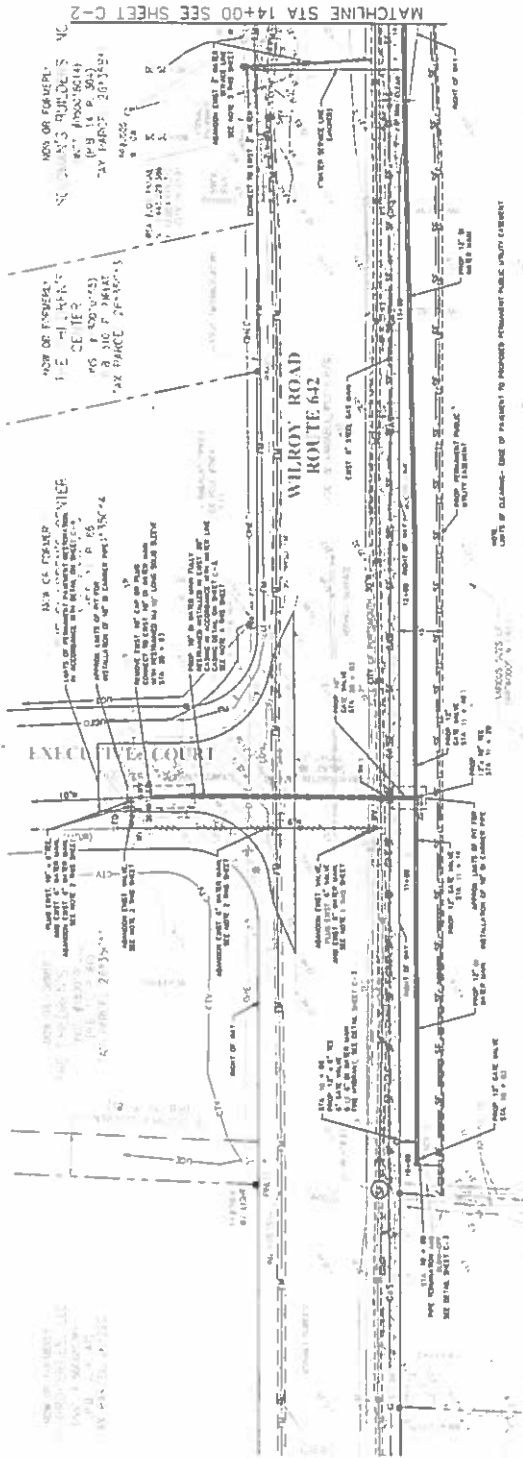
**NOTES:**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF SUFFOLK AND THE VIRGINIA DEPARTMENT OF TRANSPORTATION AND CONSTRUCTION.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES.
4. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND EROSION CONTROL MEASURES THROUGHOUT THE PROJECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL ENVIRONMENTAL RESOURCES.
6. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SAFETY MEASURES AND TRAFFIC CONTROL THROUGHOUT THE PROJECT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL EXISTING LANDSCAPE AND PLANTINGS.
8. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORD DRAWINGS AND AS-BUILT DRAWINGS THROUGHOUT THE PROJECT.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND RESTORATION OF ALL EXISTING STRUCTURES AND UTILITIES.
10. THE CONTRACTOR SHALL MAINTAIN ADEQUATE RECORD DRAWINGS AND AS-BUILT DRAWINGS THROUGHOUT THE PROJECT.

GRAPHIC SCALE IN FEET  
 0 10 20 30 40

HORIZONTAL

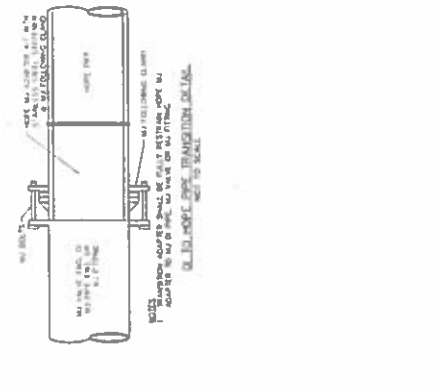
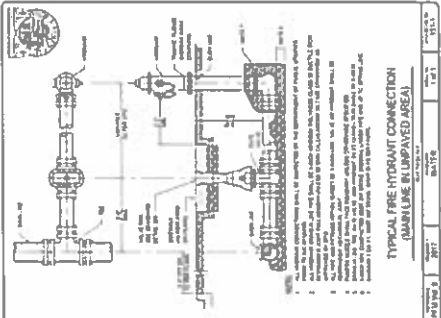
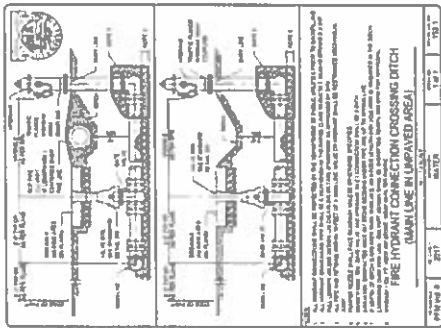
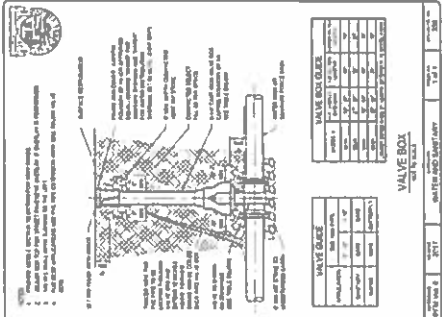
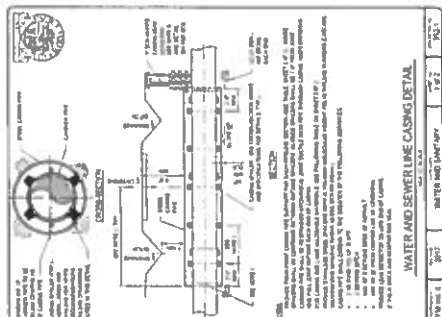
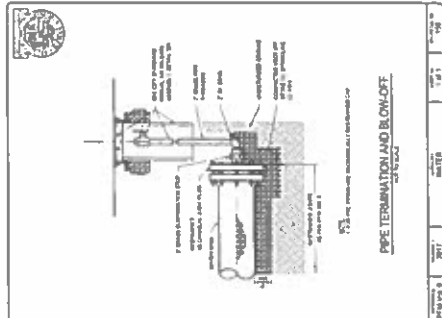
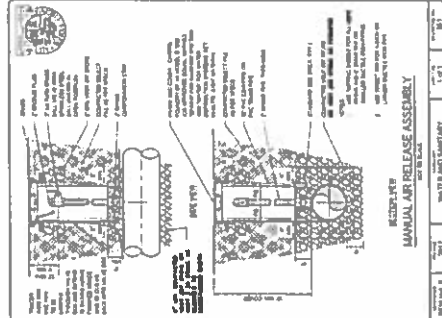
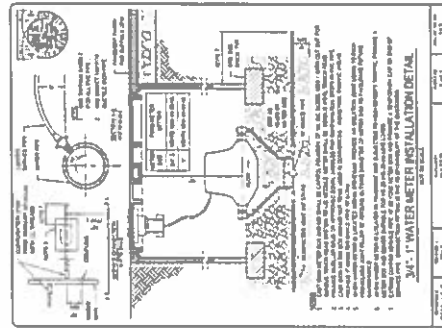
VERTICAL



	<b>WILROY ROAD 12-INCH WATER MAIN EXTENSION</b> PREPARED FOR CITY OF SUFFOLK		PLAN AND PROFILE STA 10+00 TO STA 14+00, STA 20+00 TO 20+93
	SHEET NO. 1 DATE: 11/7/19 SCALE: AS SHOWN DRAWN BY: JSC CHECKED BY: JSC	SHEET NO. 1 DATE: 11/7/19 SCALE: AS SHOWN DRAWN BY: JSC CHECKED BY: JSC	SHEET NO. 1 DATE: 11/7/19 SCALE: AS SHOWN DRAWN BY: JSC CHECKED BY: JSC

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NO.	REVNO.	DATE	BY

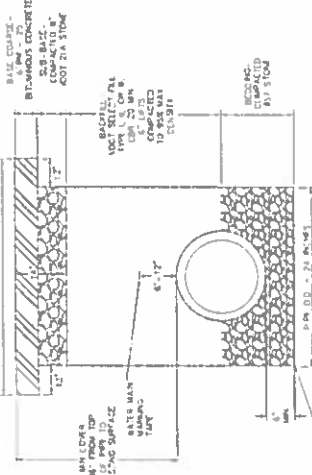
**Kimley»Horn**  
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 4325 MAIN STREET, SUITE 1000, WICHITA BEACH, VA 23442  
 PHONE: 757-231-7100  
 WWW.KIMLEY-HORN.COM

DATE: 11/20/2017  
 DATE: 11/13/19  
 SCALE: AS SHOWN  
 DESIGNED BY: RCL  
 CHECKED BY: JCR  
 DRAWN BY: JSC

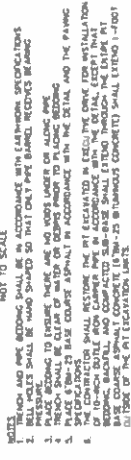
**WILROY ROAD 12-INCH WATER MAIN EXTENSION**  
 PREPARED FOR:  
**CITY OF SUFFOLK**

**WATER SYSTEM DETAILS**  
 C-3  
 PART NUMBER: 3 P 10

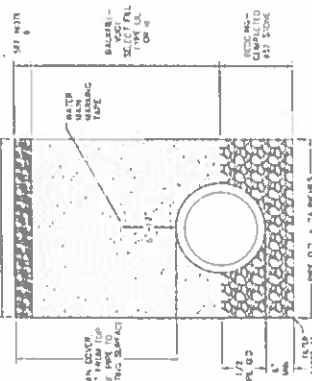
PIPE LAYS FOR TEMPORARY PAVEMENT RESTORATION OVER TRENCH (WITH EXISTING GRADE, UNLESS OTHERWISE NOTED)



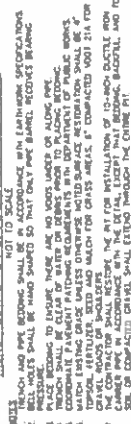
TRENCH DETAIL FOR DRAINAGE AREAS



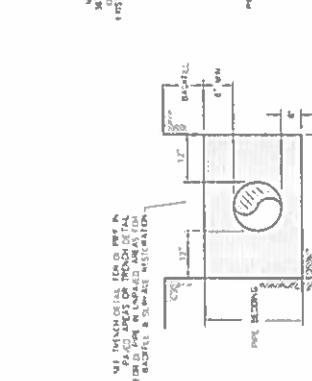
PIPE LAYS FOR PERM. RESTORATION IN UNPAVED AREAS (WITH EXISTING GRADE, UNLESS OTHERWISE NOTED)



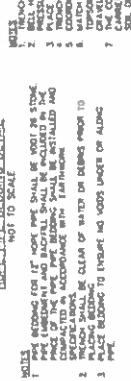
TRENCH DETAIL FOR DRAINAGE AREAS



PIPE LAYS FOR PERM. RESTORATION IN UNPAVED AREAS (WITH EXISTING GRADE, UNLESS OTHERWISE NOTED)



TRENCH DETAIL FOR DRAINAGE AREAS



PIPE LAYS FOR PERM. RESTORATION IN UNPAVED AREAS (WITH EXISTING GRADE, UNLESS OTHERWISE NOTED)



NOTE: CONTRACTOR SHALL MAINTAIN THE TOP 1/2 OF THE ASPHALT SURFACE UNTIL THE TRENCH IS FULLY RESTORED TO ORIGINAL SURFACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION AND/OR REPAIR OF ALL PAVEMENT (LANE/TRAFFIC) STRIPES, OTHER MARKINGS AND/OR SIGNAGE AND TRAFFIC CONTROL DEVICES TO BE MAINTAINED THROUGHOUT THE PLACEMENT OF THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF PERMANENT RESTORATION AND SHALL NOT BE RECOVERED FOR SEPARATE PAYMENT.

PERMANENT PAVEMENT RESTORATION DETAIL

NOT TO SCALE

1. TRENCH AND PIPE BEDDING SHALL BE IN ACCORDANCE WITH EAST-WORK SPECIFICATIONS AND SHALL BE HAND SPOUDED SO THAT ONLY PIPE BARREL SURFACES REMAIN.
2. BEDDING SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
3. PLACE BEDDING TO UNDER THE PIPE AND UNDER THE TRENCH WALLS TO A MINIMUM OF 12" BELOW THE BOTTOM OF THE TRENCH.
4. EXISTING PAVEMENT PATCHING REQUIREMENTS WITH DEPARTMENT OF PUBLIC WORKS SHALL APPLY TO THE TRENCH WALLS AND BOTTOM.
5. TRENCH WALLS SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
6. TRENCH WALLS SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
7. TRENCH WALLS SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
8. TRENCH WALLS SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
9. TRENCH WALLS SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.
10. TRENCH WALLS SHALL BE 12" MINIMUM THICKNESS AND SHALL BE COMPACTED TO 95% RELATIVE DENSITY.

TRENCH DETAILS



WILROY ROAD 12-INCH WATER MAIN EXTENSION  
PREPARED FOR  
CITY OF SUFFOLK  
VIRGINIA

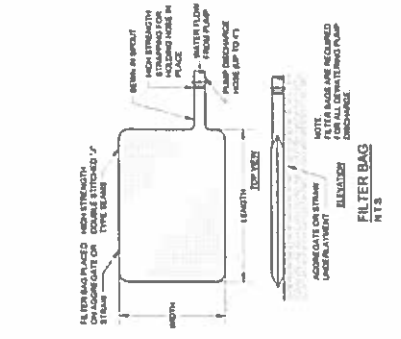
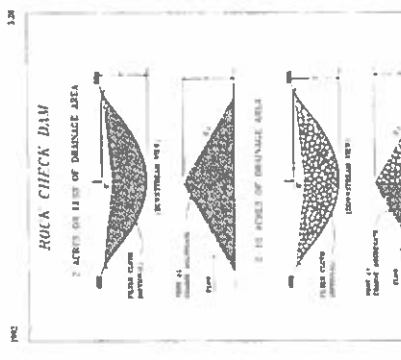
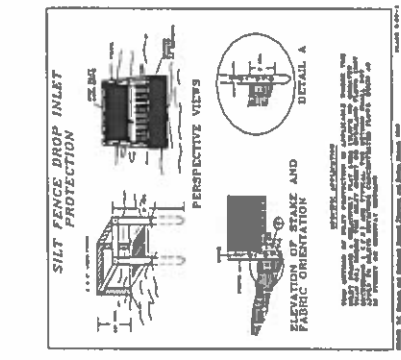
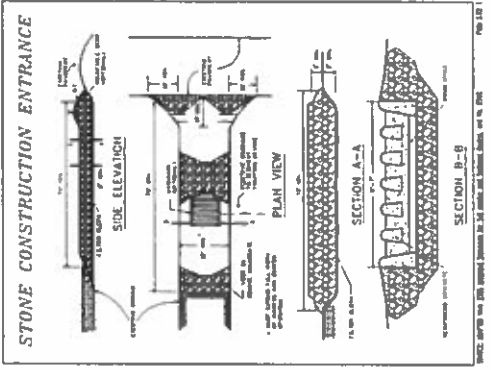
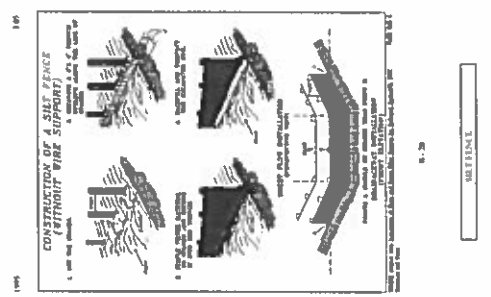
PROJECT NO.	117018057
DATE	11/13/19
SCALE	AS SHOWN
DESIGNED BY	JEH
CHECKED BY	JDF
DATE	11/13/19

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PHONE: 901-521-7100  
WWW.KIMLEY-HORN.COM

NO.	REVISIONS	DATE	BY

Temporary Seeding Data	
PLANTING DATE	PERCENT
September 1 - 10	100%
September 11 - 20	100%
September 21 - 30	100%
October 1 - 10	100%
October 11 - 20	100%
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November 1 - 10	100%
November 11 - 20	100%
November 21 - 30	100%
December 1 - 10	100%
December 11 - 20	100%
December 21 - 30	100%

TABLE 1.1 - 1988	
Erosion Control Specifications for Construction in Urban Areas	
LAND USE	PERCENT
Residential	100%
Commercial	100%
Industrial	100%
Public	100%
Utility	100%
Transportation	100%
Other	100%



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 WWW.KIMLEY-HORN.COM

**WILROY ROAD 12-INCH WATER MAIN EXTENSION**  
 PREPARED FOR  
**CITY OF SUFFOLK**

**EROSION AND SEDIMENT CONTROL DETAILS**

ES-1

SHEET NUMBER 7 OF 13









No.	REV	DATE	BY

**Kimley»Horn**  
 4525 HAWK STREET SUITE 1000 VIRGINIA BEACH, VA 23462  
 PHONE 757 251-8600 FAX 757-215-8691  
 WWW.KIMLEY-HORN.COM

DATE PLOTTED: 11/20/2007  
 DATE: 11/20  
 SCALE: AS SHOWN  
 DESIGNED BY: NCH  
 DRAWN BY: JON  
 CHECKED BY: JJC

**WILROY ROAD 12-INCH WATER MAIN EXTENSION**  
 PREPARED FOR  
**CITY OF SUFFOLK**  
 VIRGINIA



**DETOUR PLAN QVC DRIVE**

T-2  
 SHEET NUMBER 10 OF 10