



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

September 18, 2018

Addendum No. 1

RE: Contract # C204108

WBS # 34552.3.5

STATE FUNDED

Johnston County (R-3825B)

NC-42 From East of SR-1902 (Glen Laural Road)

To SR-1003 (Buffalo Road).

September 18, 2018 Letting-Extended to October 2, 2018 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the plans:

Sheet No.	Revisions
2A-1	Added Match Line A and B on Typical No. 2
2A-2	Added Temporary Pavement Widening Detail
TMP-1B	Revised the third "Management Strategies" note for "-L- (NC 42)"
UC-4	Revised to remove "Relocate Fire Hydrant" and added a new "Fire Hydrant"
UC-5	Revised to add two 24" Valves, one 8" Valve and one 8" Linestop
UC-6 and UC-7	Revised to remove "Relocate Fire Hydrant" and added a new "Fire Hydrant"
UC-9, UC-10, UC-12 and UC-14	Revised to remove "Relocate Fire Hydrant", added a new "Fire Hydrant" and new 8" Valve
UC-15, UC-19, UC-20 and UC-22	Revised to remove "Relocate Fire Hydrant" and added a new "Fire Hydrant"
UC-25	Revised to show proposed Tees and 24" Valves
UC-34	Revised to show newly proposed 8" Valves and encasement pipe
UC-36	Revised to show newly proposed 8" Valve

Please void the above listed sheets in your plans and staple the revised sheets thereto.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Website: www.ncdot.gov

The following revisions have been made to the proposal:

Page No.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated September 18, 2018". Also, updated letting date to October 2, 2018.
Table of Contents	Revised to add "Intermediate Contract Time Number 11"
G-4	Revised the wording in the first paragraph of the project special provision entitled "Intermediate Contract Time Number 6 and Liquidated Damages".
G-5	Added the project special provision entitled "Intermediate Contract Time Number 11 and Liquidated Damages".

Please void the above listed pages your proposal and staple the revised pages thereto.

On the item sheets the following pay item quantities have been revised or added:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
012-0156000000-E-250	Removal Of Existing Asphalt Pavement	22,200 SY	45,860 SY
084-1121000000-E-520	Aggregate Base Course	48,600 TON	55,804 TON
090-1491000000-E-610	Asphalt Concrete Base Course, Type B25.0C	12,710 TON	34,070 TON
091-1503000000-E-610	Asphalt Concrete Intermediate Course, Type I19.0C	28,120 TON	45,230 TON
092-1519000000-E-610	Asphalt Concrete Surface Course, Type S9.5B	1,980 TON	2,180 TON
093-1523000000-E-610	Asphalt Concrete Surface Course, Type S9.5C	21,750 TON	34,090 TON
094-1575000000-E-620	Asphalt Binder For Plant Mix	3,360 TON	4,425 TON
156-4400000000-E-1110	Work Zone Signs (Stationary)	1,065 SF	1,145 SF
168-4485000000-E-1170	Portable Concrete Barrier	2,394 LF	2,744 LF
188-4810000000-E-1205	Paint Pavement Marking Lines (4")	595,785 LF	603,025 LF
195-4850000000-E-1205	Removal Of Pavement Marking Lines (4")	88,101 LF	90,046 LF
210-5546000000-E-1515	8" Valve	2 EA	7 EA
213-5559400000-E-1515	24" Valve	15 EA	17 EA
218-5672000000-N-1515	Relocate Fire Hydrant	23 EA	12 EA

R-3825B (C204108)

Johnston County

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
221-5678600000-E-1515	8" Line Stop	2 EA	3 EA
377-1275000000-E-610	Prime Coat	NEW ITEM	8,218 GAL
378-4650000000-N-1251	Temporary Raised Pavement Markers	NEW ITEM	1,925 EA
379-5666000000-N-1515	Fire Hydrant	NEW ITEM	11 EA

The Contractor's bid must be based on the revised pay item quantities and include the new pay items.

Please delete the EBS file you previously downloaded for the September 18, 2018 letting and download the new EBS file listed for the October 2, 2018 letting. Please download the Expedite Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the new EBS file associated with the October 2, 2018 letting with the addendum file applied is used.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

F81B6038A47A442...
Ronald E. Davenport, Jr., PE
State Contract Officer

RED/jag
Attachments

cc: Mr. Lamar Sylvester, PE
Mr. Ronnie Keeter, PE
Mr. Ron Hancock, PE
Mr. Jon Weathersbee, PE
Mr. Ken Kennedy, PE
Mr. Mitchell Dixon
Project File (2)

Mr. Ray Arnold, PE
Ms. Theresa Canales, PE
Mr. Mike Gwyn
Ms. Lori Strickland
Ms. Jaci Kincaid
Ms. Penny Higgins
Mr. Alex Foster

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 09-18-2018

DATE AND TIME OF BID OPENING: **OCTOBER 2, 2018 AT 2:00 PM**

CONTRACT ID C204108
WBS 34552.3.5

FEDERAL-AID NO. STATE FUNDED

COUNTY JOHNSTON

T.I.P. NO. R-3825B

MILES 4.640

ROUTE NO. NC 42

LOCATION NC-42 FROM EAST OF SR-1902 (GLEN LAUREL RD) TO SR-1003
(BUFFALO RD).

TYPE OF WORK GRADING, DRAINAGE, PAVING, AND STRUCTURE.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

TABLE OF CONTENTS

**COVER SHEET
PROPOSAL SHEET**

PROJECT SPECIAL PROVISIONS

CONTRACT TIME AND LIQUIDATED DAMAGES: G-1
INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES: G-1
INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES: G-2
INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES: G-2
INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES: G-3
INTERMEDIATE CONTRACT TIME NUMBER 5 AND LIQUIDATED DAMAGES: G-3
INTERMEDIATE CONTRACT TIME NUMBER 6 AND LIQUIDATED DAMAGES: G-4
INTERMEDIATE CONTRACT TIME NUMBER 7 AND LIQUIDATED DAMAGES: G-4
INTERMEDIATE CONTRACT TIME NUMBER 8 AND LIQUIDATED DAMAGES: G-4
INTERMEDIATE CONTRACT TIME NUMBER 9 AND LIQUIDATED DAMAGES: G-4
INTERMEDIATE CONTRACT TIME NUMBER 10 AND LIQUIDATED DAMAGES: G-5
INTERMEDIATE CONTRACT TIME NUMBER 11 AND LIQUIDATED DAMAGES: G-5
PERMANENT VEGETATION ESTABLISHMENT:..... G-5
CONSTRUCTION MORATORIUM:..... G-6
DELAY IN RIGHT OF ENTRY:..... G-6
DELAY IN RIGHT OF WAY:..... G-6
MAJOR CONTRACT ITEMS: G-6
SPECIALTY ITEMS:..... G-7
FUEL PRICE ADJUSTMENT:..... G-7
SCHEDULE OF ESTIMATED COMPLETION PROGRESS:..... G-8
MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE:..... G-8
CONTRACTOR'S LICENSE REQUIREMENTS:..... G-22
SUBSURFACE INFORMATION:..... G-22
PORTABLE CONCRETE BARRIER - (Partial Payments for Materials):..... G-23
REMOVABLE PAVEMENT MARKINGS - (Partial Payments for Materials):..... G-23
MAINTENANCE OF THE PROJECT: G-23
COOPERATION BETWEEN CONTRACTORS:..... G-24
BID DOCUMENTATION: G-24
TWELVE MONTH GUARANTEE:..... G-27
OUTSOURCING OUTSIDE THE USA:..... G-28
EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION:..... G-28
PROCEDURE FOR MONITORING BORROW PIT DISCHARGE:..... G-33
ROADWAY..... R-1

STANDARD SPECIAL PROVISIONS

AVAILABILITY FUNDS – TERMINATION OF CONTRACTS SSP-1
NCDOT GENERAL SEED SPECIFICATION FOR SEED QUALITY SSP-2
ERRATA..... SSP-5
PLANT AND PEST QUARANTINES SSP-6
MINIMUM WAGES SSP-7
TITLE VI AND NONDISCRIMINATION: SSP-8
ON-THE-JOB TRAINING SSP-16

INTERMEDIATE CONTRACT TIME NUMBER 6 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 7-03-18)

108

SP1 G14 H

The Contractor shall complete the work required of **Phase I, Steps #1 thru #4 from the Beginning of Project (at –L– Sta. 12+77 +/-) to –L– Sta. 35+50 +/-, including tie-ins to the remainder of the project at –L– Sta. 35+50 +/-**, as shown on Sheets **TMP-3 and TMP-3A**, and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is **October 29, 2018**.

The completion date for this intermediate contract time is **May 1, 2020**.

The liquidated damages are **One Thousand Dollars (\$ 1,000.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 7 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SP1 G14 H

The Contractor shall complete the work required of **Phase I, Step #1A** as shown on Sheet **TMP- 3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **twenty-one (21)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **One Thousand Five Hundred Dollars (\$ 1,500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 8 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SP1 G14 H

The Contractor shall complete the work required of **Phase I, Step #1B** as shown on Sheet **TMP-3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **seven (7)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Five Hundred Dollars (\$ 500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 9 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SP1 G14 H

The Contractor shall complete the work required of **Phase I, Step #1C** as shown on Sheet **TMP-3** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **seven (7)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Five Hundred Dollars (\$ 500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 10 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase II, Step #1A** as shown on Sheet **TMP- 3A** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **fourteen (14)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **Five Hundred Dollars (\$ 500.00)** per calendar day.

INTERMEDIATE CONTRACT TIME NUMBER 11 AND LIQUIDATED DAMAGES:

(2-20-07) (Rev. 6-18-13)

108

SPI G14 H

The Contractor shall complete the work required of **Phase II, Step #1B** as shown on Sheet **TMP-3A** and shall place and maintain traffic on same.

The date of availability for this intermediate contract time is the date the Contractor elects to begin the work.

The completion date for this intermediate contract time is the date which is **sixty (60)** consecutive calendar days after and including the date the Contractor begins this work.

The liquidated damages are **One Thousand Dollars (\$ 1,000.00)** per calendar day.

PERMANENT VEGETATION ESTABLISHMENT:

(2-16-12) (Rev. 10-15-13)

104

SPI G16

Establish a permanent stand of the vegetation mixture shown in the contract. During the period between initial vegetation planting and final project acceptance, perform all work necessary to establish permanent vegetation on all erodible areas within the project limits, as well as, in borrow and waste pits. This work shall include erosion control device maintenance and installation, repair seeding and mulching, supplemental seeding and mulching, mowing, and fertilizer topdressing, as directed. All work shall be performed in accordance with the applicable section of the *2018 Standard Specifications*. All work required for initial vegetation planting shall be performed as a part of the work necessary for the completion and acceptance of the Intermediate Contract Time (ICT). Between the time of ICT and Final Project acceptance, or otherwise referred to as the vegetation establishment period, the Department will be responsible for preparing the required National Pollutant Discharge Elimination System (NPDES) inspection records.

Once the Engineer has determined that the permanent vegetation establishment requirement has been achieved at an 80% vegetation density (the amount of established vegetation per given area

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUB- BING	3 ACR		
0005	0015000000-N	205	SEALING ABANDONED WELLS	5 EA		
0006	0022000000-E	225	UNCLASSIFIED EXCAVATION	161,000 CY		
0007	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (64+20 -L-)	Lump Sum	L.S.	
0008	0036000000-E	225	UNDERCUT EXCAVATION	12,650 CY		
0009	0106000000-E	230	BORROW EXCAVATION	216,000 CY		
0010	0134000000-E	240	DRAINAGE DITCH EXCAVATION	4,780 CY		
0011	0141000000-E	240	BERM DITCH CONSTRUCTION	3,600 LF		
0012	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	45,860 SY		
0013	0177000000-E	250	BREAKING OF EXISTING ASPHALT PAVEMENT	19,010 SY		
0014	0192000000-N	260	PROOF ROLLING	56 HR		
0015	0194000000-E	265	SELECT GRANULAR MATERIAL, CLASS III	10,100 CY		
0016	0195000000-E	265	SELECT GRANULAR MATERIAL	850 CY		
0017	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	45,950 SY		
0018	0199000000-E	SP	TEMPORARY SHORING	4,389 SF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	0222000000-E	SP	GEOTEXTILE FOR ROCK EMBANKMENTS	440 SY		
0020	0223000000-E	275	ROCK PLATING	2,550 SY		
0021	0241000000-E	SP	GENERIC GRADING ITEM GEOTEXTILE FOR EMBANKMENT STABILIZATION	900 SY		
0022	0255000000-E	SP	GENERIC GRADING ITEM HAULING & DISPOSAL OF PETRO- LEUM CONTAMINATED SOIL	100 TON		
0023	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	4,976 TON		
0024	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	23,226 SY		
0025	0335000000-E	305	*** DRAINAGE PIPE (54")	80 LF		
0026	0335000000-E	305	*** DRAINAGE PIPE (66")	456 LF		
0027	0335200000-E	305	15" DRAINAGE PIPE	6,760 LF		
0028	0335300000-E	305	18" DRAINAGE PIPE	2,892 LF		
0029	0335400000-E	305	24" DRAINAGE PIPE	1,956 LF		
0030	0335500000-E	305	30" DRAINAGE PIPE	1,052 LF		
0031	0335600000-E	305	36" DRAINAGE PIPE	12 LF		
0032	0335700000-E	305	42" DRAINAGE PIPE	504 LF		
0033	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (15")	22 EA		
0034	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (18")	6 EA		
0035	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (24")	1 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0036	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (48")	104	LF	
0037	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (54")	508	LF	
0038	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (66")	76	LF	
0039	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (72")	136	LF	
0040	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	7,944	LF	
0041	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	1,740	LF	
0042	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	1,588	LF	
0043	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	216	LF	
0044	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	180	LF	
0045	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	416	LF	
0046	0453000000-E	310	*** PIPE END SECTION (15")	4	EA	
0047	0453000000-E	310	*** PIPE END SECTION (18")	1	EA	
0048	0582000000-E	310	15" CS PIPE CULVERTS, 0.064" THICK	930	LF	
0049	0588000000-E	310	18" CS PIPE CULVERTS, 0.064" THICK	56	LF	
0050	0594000000-E	310	24" CS PIPE CULVERTS, 0.064" THICK	400	LF	
0051	0600000000-E	310	30" CS PIPE CULVERTS, 0.079" THICK	124	LF	

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (15", 0.0625")	1 EA		
0053	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (15", 0.500")	38 LF		
0054	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (18", 0.500")	222 LF		
0055	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (24", 0.500")	134 LF		
0056	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (30", 0.500")	264 LF		
0057	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (36", 0.500")	204 LF		
0058	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (42", 0.500")	284 LF		
0059	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (48", 0.500")	36 LF		
0060	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (54", 0.750")	232 LF		
0061	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (66", 0.750")	178 LF		
0062	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (72", 0.750")	64 LF		
0063	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (84", 0.750")	90 LF		
0064	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (15", 0.500")	38 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0065	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (18", 0.500")	222 LF		
0066	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (24", 0.500")	134 LF		
0067	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (30", 0.500")	264 LF		
0068	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (36", 0.500")	204 LF		
0069	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (42", 0.500")	284 LF		
0070	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (48", 0.500")	36 LF		
0071	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (54", 0.750")	232 LF		
0072	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (66", 0.750")	178 LF		
0073	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (72", 0.750")	64 LF		
0074	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (84", 0.750")	90 LF		
0075	0995000000-E	340	PIPE REMOVAL	5,702 LF		
0076	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0077	1044000000-E	501	LIME TREATED SOIL (SLURRY METHOD)	65,300 SY		
0078	1066000000-E	501	LIME FOR LIME TREATED SOIL	660 TON		
0079	1077000000-E	SP	#57 STONE	200 TON		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0080	1099500000-E	505	SHALLOW UNDERCUT	10,450 CY		
0081	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	19,950 TON		
0082	1110000000-E	510	STABILIZER AGGREGATE	500 TON		
0083	1115000000-E	SP	GEOTEXTILE FOR PAVEMENT STABILIZATION	23,262 SY		
0084	1121000000-E	520	AGGREGATE BASE COURSE	55,804 TON		
0085	1176000000-E	542	SOIL CEMENT BASE	65,300 SY		
0086	1187000000-E	542	PORTLAND CEMENT FOR SOIL CEMENT BASE	1,796 TON		
0087	1209000000-E	543	ASPHALT CURING SEAL	19,590 GAL		
0088	1220000000-E	545	INCIDENTAL STONE BASE	2,000 TON		
0089	1330000000-E	607	INCIDENTAL MILLING	3,600 SY		
0090	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	34,070 TON		
0091	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	45,230 TON		
0092	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	2,180 TON		
0093	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	34,090 TON		
0094	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	4,425 TON		
0095	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	2,611 TON		
0096	2000000000-N	806	RIGHT-OF-WAY MARKERS	271 EA		
0097	2020000000-N	806	CONTROL-OF-ACCESS MARKERS	19 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0098	2022000000-E	815	SUBDRAIN EXCAVATION	2,050 CY		
0099	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	6,100 SY		
0100	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	1,025 CY		
0101	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	6,100 LF		
0102	2070000000-N	815	SUBDRAIN PIPE OUTLET	13 EA		
0103	2077000000-E	815	6" OUTLET PIPE	78 LF		
0104	2143000000-E	818	BLOTTING SAND	20 TON		
0105	2190000000-N	828	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE STRUCTURE	15 EA		
0106	2209000000-E	838	ENDWALLS	41.2 CY		
0107	2220000000-E	838	REINFORCED ENDWALLS	29.7 CY		
0108	2253000000-E	840	PIPE COLLARS	9 CY		
0109	2275000000-E	SP	FLOWABLE FILL	433 CY		
0110	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	283 EA		
0111	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	96 CY		
0112	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	81.2 LF		
0113	2354200000-N	840	FRAME WITH GRATE, STD 840.24	1 EA		
0114	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	17 EA		
0115	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	67 EA		
0116	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	84 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0117	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	23 EA		
0118	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	40 EA		
0119	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	37 EA		
0120	2396000000-N	840	FRAME WITH COVER, STD 840.54	17 EA		
0121	2440000000-N	852	CONCRETE TRANSITIONAL SECTION FOR CATCH BASIN	2 EA		
0122	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	26 EA		
0123	2535000000-E	846	***X*** CONCRETE CURB (9" X 12")	400 LF		
0124	2538000000-E	846	***,*** CONCRETE CURB & GUTTER (2'-9")	2,210 LF		
0125	2542000000-E	846	1'-6" CONCRETE CURB & GUTTER	25,200 LF		
0126	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	9,410 LF		
0127	2556000000-E	846	SHOULDER BERM GUTTER	5,790 LF		
0128	2577000000-E	846	CONCRETE EXPRESSWAY GUTTER	780 LF		
0129	2591000000-E	848	4" CONCRETE SIDEWALK	4,140 SY		
0130	2605000000-N	848	CONCRETE CURB RAMPS	30 EA		
0131	2612000000-E	848	6" CONCRETE DRIVEWAY	1,090 SY		
0132	2619000000-E	850	4" CONCRETE PAVED DITCH	190 SY		
0133	2655000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	7,490 SY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0134	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	2,082 LF		
0135	2800000000-N	858	ADJUSTMENT OF CATCH BASINS	5 EA		
0136	3030000000-E	862	STEEL BEAM GUARDRAIL	7,025 LF		
0137	3045000000-E	862	STEEL BEAM GUARDRAIL, SHOP CURVED	925 LF		
0138	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA		
0139	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	32 EA		
0140	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	4 EA		
0141	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	20 EA		
0142	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	4 EA		
0143	3360000000-E	863	REMOVE EXISTING GUARDRAIL	2,787 LF		
0144	3628000000-E	876	RIP RAP, CLASS I	2,840 TON		
0145	3635000000-E	876	RIP RAP, CLASS II	1,050 TON		
0146	3642000000-E	876	RIP RAP, CLASS A	230 TON		
0147	3649000000-E	876	RIP RAP, CLASS B	4,700 TON		
0148	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	12,240 SY		
0149	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	2,636 LF		
0150	4096000000-N	904	SIGN ERECTION, TYPE D	2 EA		
0151	4102000000-N	904	SIGN ERECTION, TYPE E	126 EA		
0152	4108000000-N	904	SIGN ERECTION, TYPE F	25 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0153	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (E)	1 EA		
0154	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	63 EA		
0155	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	4 EA		
0156	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,145 SF		
0157	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	288 SF		
0158	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	422 SF		
0159	4415000000-N	1115	FLASHING ARROW BOARD	2 EA		
0160	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	7 EA		
0161	4422000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN (SHORT TERM)	250 DAY		
0162	4430000000-N	1130	DRUMS	630 EA		
0163	4435000000-N	1135	CONES	630 EA		
0164	4445000000-E	1145	BARRICADES (TYPE III)	336 LF		
0165	4455000000-N	1150	FLAGGER	440 DAY		
0166	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	5 EA		
0167	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	3 EA		
0168	4485000000-E	1170	PORTABLE CONCRETE BARRIER	2,744 LF		
0169	4490000000-E	1170	PORTABLE CONCRETE BARRIER (ANCHORED)	600 LF		
0170	4500000000-E	1170	REMOVE & RESET PORTABLE CONC- RETE BARRIER	930 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0171	4510000000-N	1190	LAW ENFORCEMENT	80	HR	
0172	4516000000-N	1180	SKINNY DRUM	630	EA	
0173	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	10,440	LF	
0174	4686000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	11,735	LF	
0175	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	65,408	LF	
0176	4690000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 120 MILS)	21,943	LF	
0177	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	141	LF	
0178	4697000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)	1,903	LF	
0179	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	16,834	LF	
0180	4702000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 120 MILS)	501	LF	
0181	4710000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	1,335	LF	
0182	4721000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	20	EA	
0183	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	310	EA	
0184	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	2,720	LF	
0185	4775000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (6") (II)	1,063	LF	
0186	4785000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (12") (II)	241	LF	

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0187	4805000000-N	1205	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (IV)	4 EA		
0188	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	603,025 LF		
0189	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	88,414 LF		
0190	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	13,182 LF		
0191	4825000000-E	1205	PAINT PAVEMENT MARKING LINES (12")	17,576 LF		
0192	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	3,903 LF		
0193	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	24 EA		
0194	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	694 EA		
0195	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	90,046 LF		
0196	4860000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (8")	1,480 LF		
0197	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	350 LF		
0198	4875000000-N	1205	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	54 EA		
0199	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	315 EA		
0200	4905000000-N	1253	SNOWPLOWABLE PAVEMENT MARKERS	1,960 EA		
0201	4955000000-N	1264	OBJECT MARKERS (END OF ROAD)	3 EA		
0202	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0203	5325600000-E	1510	6" WATER LINE	389 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0204	5325800000-E	1510	8" WATER LINE	314		LF
0205	5326000000-E	1510	10" WATER LINE	98		LF
0206	5326200000-E	1510	12" WATER LINE	1,272		LF
0207	5327400000-E	1510	24" WATER LINE	23,951		LF
0208	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	108,510		LB
0209	5540000000-E	1515	6" VALVE	28		EA
0210	5546000000-E	1515	8" VALVE	7		EA
0211	5552000000-E	1515	10" VALVE	2		EA
0212	5558000000-E	1515	12" VALVE	9		EA
0213	5559400000-E	1515	24" VALVE	17		EA
0214	5571600000-E	1515	6" TAPPING SLEEVE & VALVE	1		EA
0215	5589200000-E	1515	2" AIR RELEASE VALVE	23		EA
0216	5648000000-N	1515	RELOCATE WATER METER	11		EA
0217	5649000000-N	1515	RECONNECT WATER METER	1		EA
0218	5672000000-N	1515	RELOCATE FIRE HYDRANT	12		EA
0219	5673000000-E	1515	FIRE HYDRANT LEG	182		LF
0220	5678400000-E	1515	6" LINE STOP	2		EA
0221	5678600000-E	1515	8" LINE STOP	3		EA
0222	5678800000-E	1515	10" LINE STOP	1		EA
0223	5679000000-E	1515	12" LINE STOP	6		EA

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0224	5686500000-E	1515	WATER SERVICE LINE	752 LF		
0225	5691300000-E	1520	8" SANITARY GRAVITY SEWER	80 LF		
0226	5691500000-E	1520	12" SANITARY GRAVITY SEWER	161 LF		
0227	5709300000-E	1520	6" FORCE MAIN SEWER	325 LF		
0228	5709400000-E	1520	8" FORCE MAIN SEWER	7,307 LF		
0229	5709600000-E	1520	12" FORCE MAIN SEWER	19,311 LF		
0230	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	24,365 LB		
0231	5775000000-E	1525	4' DIA UTILITY MANHOLE	3 EA		
0232	5776000000-E	1525	5' DIA UTILITY MANHOLE	16 EA		
0233	5782000000-E	1525	UTILITY MANHOLE WALL 5' DIA	7 LF		
0234	5800000000-E	1530	ABANDON 6" UTILITY PIPE	220 LF		
0235	5801000000-E	1530	ABANDON 8" UTILITY PIPE	7,653 LF		
0236	5802000000-E	1530	ABANDON 10" UTILITY PIPE	58 LF		
0237	5804000000-E	1530	ABANDON 12" UTILITY PIPE	43,111 LF		
0238	5816000000-N	1530	ABANDON UTILITY MANHOLE	2 EA		
0239	5828000000-N	1530	REMOVE UTILITY MANHOLE	1 EA		
0240	5835700000-E	1540	16" ENCASEMENT PIPE	270 LF		
0241	5836000000-E	1540	24" ENCASEMENT PIPE	406 LF		
0242	5836400000-E	1540	36" ENCASEMENT PIPE	1,157 LF		
0243	5872500000-E	1550	BORE AND JACK OF *** (24")	346 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0244	5872500000-E	1550	BORE AND JACK OF *** (36")	51 LF		
0245	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (24")	815 LF		
0246	5882000000-N	SP	GENERIC UTILITY ITEM 10" PLUG VALVE	1 EA		
0247	5882000000-N	SP	GENERIC UTILITY ITEM 12" PLUG VALVE	24 EA		
0248	5882000000-N	SP	GENERIC UTILITY ITEM 8" PLUG VALVE	1 EA		
0249	6000000000-E	1605	TEMPORARY SILT FENCE	55,000 LF		
0250	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	5,100 TON		
0251	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	9,000 TON		
0252	6012000000-E	1610	SEDIMENT CONTROL STONE	7,350 TON		
0253	6015000000-E	1615	TEMPORARY MULCHING	400 ACR		
0254	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	18,000 LB		
0255	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	100 TON		
0256	6024000000-E	1622	TEMPORARY SLOPE DRAINS	6,000 LF		
0257	6029000000-E	SP	SAFETY FENCE	3,000 LF		
0258	6030000000-E	1630	SILT EXCAVATION	30,500 CY		
0259	6036000000-E	1631	MATTING FOR EROSION CONTROL	72,000 SY		
0260	6037000000-E	SP	COIR FIBER MAT	650 SY		
0261	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	15,650 SY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0262	6042000000-E	1632	1/4" HARDWARE CLOTH	9,200 LF		
0263	6043000000-E	SP	LOW PERMEABILITY GEOTEXTILE	925 SY		
0264	6045000000-E	SP	*** TEMPORARY PIPE (36")	160 LF		
0265	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	3,000 SY		
0266	6070000000-N	1639	SPECIAL STILLING BASINS	2 EA		
0267	6071012000-E	SP	COIR FIBER WATTLE	9,100 LF		
0268	6071013000-E	SP	WATTLE BARRIER	190 LF		
0269	6071020000-E	SP	POLYACRYLAMIDE (PAM)	8,000 LB		
0270	6071030000-E	1640	COIR FIBER BAFFLE	6,300 LF		
0271	6071050000-E	SP	*** SKIMMER (1-1/2")	53 EA		
0272	6071050000-E	SP	*** SKIMMER (2")	1 EA		
0273	6084000000-E	1660	SEEDING & MULCHING	250 ACR		
0274	6087000000-E	1660	MOWING	250 ACR		
0275	6090000000-E	1661	SEED FOR REPAIR SEEDING	4,350 LB		
0276	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	11.5 TON		
0277	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	7,175 LB		
0278	6102000000-E	1664	SODDING	7,270 SY		
0279	6105000000-E	1664	WATER	135 M/G		
0280	6108000000-E	1665	FERTILIZER TOPDRESSING	215.25 TON		
0281	6111000000-E	SP	IMPERVIOUS DIKE	350 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0282	6114500000-N	1667	SPECIALIZED HAND MOWING	75 MHR		
0283	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	100 EA		
0284	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	12 EA		
0285	6123000000-E	1670	REFORESTATION	5 ACR		
0286	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE CLEANOUT	150 EA		
0287	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FABRIC INSERT INLET PROTECTION DEVICE	50 EA		
0288	6132000000-N	SP	GENERIC EROSION CONTROL ITEM FLOCCULANT BLOCK	40 EA		
0289	6135000000-E	SP	GENERIC EROSION CONTROL ITEM COMPOST BLANKET	5 ACR		
0290	7048500000-E	1705	PEDESTRIAN SIGNAL HEAD (16", 1 SECTION W/COUNTDOWN)	16 EA		
0291	7060000000-E	1705	SIGNAL CABLE	19,150 LF		
0292	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	90 EA		
0293	7132000000-E	1705	VEHICLE SIGNAL HEAD (12", 4 SECTION)	15 EA		
0294	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	6 EA		
0295	7252000000-E	1710	MESSENGER CABLE (1/4")	15,600 LF		
0296	7264000000-E	1710	MESSENGER CABLE (3/8")	2,950 LF		
0297	7279000000-E	1715	TRACER WIRE	7,600 LF		
0298	7300000000-E	1715	UNPAVED TRENCHING (***** (1, 2")	11,120 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0299	7300000000-E	1715	UNPAVED TRENCHING (*****) (2, 2")	310 LF		
0300	7300000000-E	1715	UNPAVED TRENCHING (*****) (3, 2")	340 LF		
0301	7301000000-E	1715	DIRECTIONAL DRILL (*****) (2, 2")	2,860 LF		
0302	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	38 EA		
0303	7348000000-N	1716	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)	52 EA		
0304	7360000000-N	1720	WOOD POLE	16 EA		
0305	7372000000-N	1721	GUY ASSEMBLY	69 EA		
0306	7408000000-E	1722	1" RISER WITH WEATHERHEAD	4 EA		
0307	7420000000-E	1722	2" RISER WITH WEATHERHEAD	12 EA		
0308	7432000000-E	1722	2" RISER WITH HEAT SHRINK TUBING	10 EA		
0309	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	7,400 LF		
0310	7456000000-E	1726	LEAD-IN CABLE (*****) (14-2)	21,620 LF		
0311	7481000000-N	SP	SITE SURVEY	4 EA		
0312	7481240000-N	SP	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT	23 EA		
0313	7481260000-N	SP	EXTERNAL LOOP EMULATOR PROCESSING UNIT	4 EA		
0314	7481280000-N	SP	RELOCATE CAMERA SENSOR UNIT	1 EA		
0315	7516000000-E	1730	COMMUNICATIONS CABLE (**FIBER) (24)	24,600 LF		
0316	7528000000-E	1730	DROP CABLE	700 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0317	7540000000-N	1731	SPLICE ENCLOSURE	6 EA		
0318	7552000000-N	1731	INTERCONNECT CENTER	6 EA		
0319	7566000000-N	1733	DELINEATOR MARKER	16 EA		
0320	7576000000-N	SP	METAL STRAIN SIGNAL POLE	4 EA		
0321	7588000000-N	SP	METAL POLE WITH SINGLE MAST ARM	14 EA		
0322	7590000000-N	SP	METAL POLE WITH DUAL MAST ARM	2 EA		
0323	7613000000-N	SP	SOIL TEST	20 EA		
0324	7614100000-E	SP	DRILLED PIER FOUNDATION	160 CY		
0325	7631000000-N	SP	MAST ARM WITH METAL POLE DE-SIGN	16 EA		
0326	7636000000-N	1745	SIGN FOR SIGNALS	24 EA		
0327	7642200000-N	1743	TYPE II PEDESTAL WITH FOUNDATION	8 EA		
0328	7684000000-N	1750	SIGNAL CABINET FOUNDATION	6 EA		
0329	7696000000-N	1751	CONTROLLERS WITH CABINET (*****) (TYPE 2070E, BASE MOUNTED)	6 EA		
0330	7744000000-N	1751	DETECTOR CARD (TYPE 170)	46 EA		
0331	7901000000-N	1753	CABINET BASE EXTENDER	6 EA		
0332	7960000000-N	SP	METAL POLE FOUNDATION REMOVAL	2 EA		
0333	7972000000-N	SP	METAL POLE REMOVAL	2 EA		
0334	7980000000-N	SP	GENERIC SIGNAL ITEM ETHERNET EDGE SWITCH	6 EA		
0335	7980000000-N	SP	GENERIC SIGNAL ITEM JUNCTION BOX MARKER	30 EA		

County: Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0336	7980000000-N	SP	GENERIC SIGNAL ITEM MICROWAVE VEHICLE DETECTION SYSTEM - MULTIPLE ZONES	1 EA		
0337	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COAT FOR DUAL MAST ARM POLE (BLACK)	2 EA		
0338	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COAT FOR SIGNAL PEDESTAL (BLACK)	8 EA		
0339	7980000000-N	SP	GENERIC SIGNAL ITEM PROTECTIVE COAT FOR SINGLE MAST ARM POLE (BLACK)	14 EA		
0377	1275000000-E	600	PRIME COAT	8,218 GAL		
0378	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,925 EA		
0379	5666000000-N	1515	FIRE HYDRANT	11 EA		
CULVERT ITEMS						
0340	8056000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (114+23.00 -L-)	Lump Sum	L.S.	
0341	8056000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (167+03.45 -L-)	Lump Sum	L.S.	
0342	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0343	8126000000-N	414	CULVERT EXCAVATION, STA ***** (114+23.00 -L-)	Lump Sum	L.S.	
0344	8126000000-N	414	CULVERT EXCAVATION, STA ***** (167+03.45 -L-)	Lump Sum	L.S.	
0345	8133000000-E	414	FOUNDATION CONDITIONING MATER- IAL, BOX CULVERT	610 TON		
0346	8196000000-E	420	CLASS A CONCRETE (CULVERT)	948.4 CY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0347	8245000000-E	425	REINFORCING STEEL (CULVERT)	161,058 LB		
0348	8821000000-E	SP	GENERIC CULVERT ITEM TEMPORARY SHORING FOR RISER CONSTRUCTION	10,600 SF		
WALL ITEMS						
0349	8847000000-E	SP	GENERIC RETAINING WALL ITEM ARCHITECTURAL SURFACE TREATMENT	54,652 SF		
0350	8847000000-E	SP	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL NW2	6,822 SF		
0351	8847000000-E	SP	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL NW2A	12,147 SF		
0352	8847000000-E	SP	GENERIC RETAINING WALL ITEM SOUND BARRIER WALL NW3	14,955 SF		
STRUCTURE ITEMS						
0353	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (64+20.00 -L-)	Lump Sum	L.S.	
0354	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (64+20.00 -L-)	Lump Sum	L.S.	
0355	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0356	8105500000-E	411	***-*** DIA DRILLED PIERS IN SOIL (4'-6")	108.5 LF		
0357	8105600000-E	411	***-*** DIA DRILLED PIERS NOT IN SOIL (4'-6")	144 LF		

County: Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0358	8111000000-E	411	PERMANENT STEEL CASING FOR ***" DIA DRILLED PIER (4'-6")	125.55 LF		
0359	8113000000-N	411	SID INSPECTIONS	1 EA		
0360	8115000000-N	411	CSL TESTING	1 EA		
0361	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (64+20.00 -L-)	Lump Sum	L.S.	
0362	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	36,378 SF		
0363	8161000000-E	420	GROOVING BRIDGE FLOORS	30,818 SF		
0364	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	421.4 CY		
0365	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (64+20.00 -L-)	Lump Sum	L.S.	
0366	8217000000-E	425	REINFORCING STEEL (BRIDGE)	96,044 LB		
0367	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	12,290 LB		
0368	8277000000-E	430	MODIFIED 72" PRESTRESSED CONC GIRDERS	4,097.5 LF		
0369	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP12 X 53)	40 EA		
0370	8364000000-E	450	HP12X53 STEEL PILES	1,200 LF		
0371	8475000000-E	460	TWO BAR METAL RAIL	733.67 LF		
0372	8517000000-E	460	1'-***"X *****" CONCRETE PARA- PET (1'-2" X 2'-6")	748.67 LF		
0373	8517000000-E	460	1'-***"X *****" CONCRETE PARA- PET (1'-2" X 2'-8")	423.33 LF		
0374	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	1,033 TON		

County: Johnston

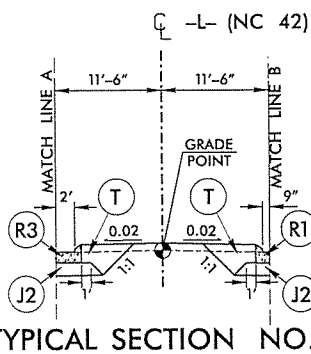
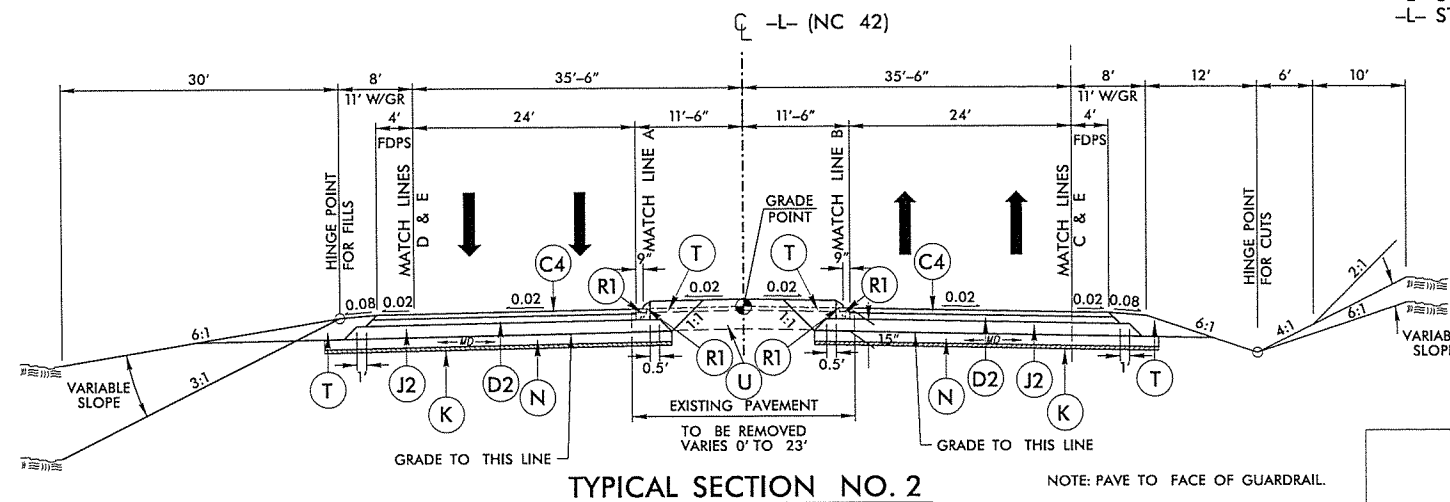
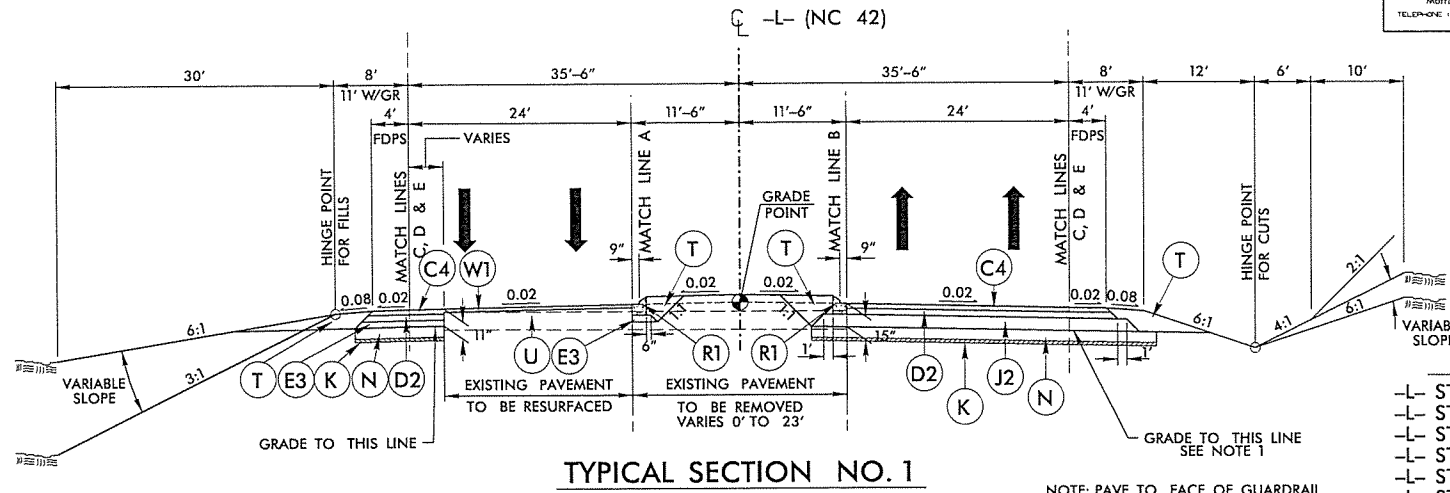
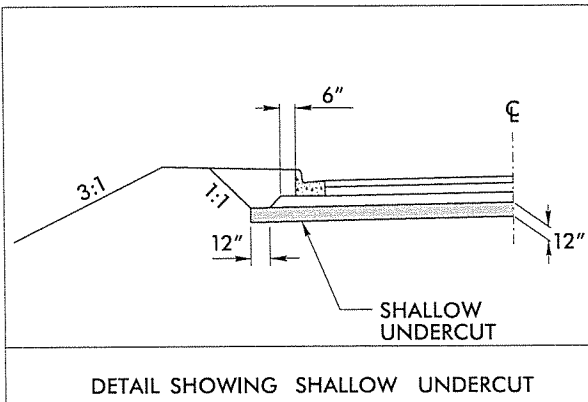
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0375	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	1,149 SY		
0376	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0946/Sep18/Q3154275.37/D1655183705000/E379			Total Amount Of Bid For Entire Project :			

8/17/99

**PAVEMENT SCHEDULE
FINAL PAVEMENT DESIGN**

C1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 138 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
C3	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C5	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
E2	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E3	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E4	PROP. APPROX. 5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
E5	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
J1	PROP. 6" AGGREGATE BASE COURSE.
J2	PROP. 8" AGGREGATE BASE COURSE.
K	BASE TO BE TREATED WITH LIME (METHOD-SLURRY) TO A DEPTH OF 8" AT A RATE OF 20 LBS. PER SQ. YD. AS DIRECTED BY THE ENGINEER. OR BASE TO BE TREATED WITH CEMENT TO A DEPTH OF 7", AT A RATE OF 55 LBS. PER SQ. YD. AS DIRECTED BY THE ENGINEER.
N	GEOTEXTILE FOR PAVEMENT STABILIZATION
P	PRIME COAT AT RATE OF .35 GAL PER SQ. YARD
R1	1'-6" CONCRETE CURB AND GUTTER.
R2	2'-6" CONCRETE CURB AND GUTTER.
R3	2'-9" CONCRETE CURB AND GUTTER. SEE DETAIL, THIS SHEET.
R4	EXPRESSWAY GUTTER.
R5	SHOULDER BERM GUTTER.
R6	5" MONOLITHIC CONCRETE ISLAND (KEYED IN)
S	4" CONCRETE SIDEWALK
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W1	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 1)
W2	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING NO. 2)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
TRENCH SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

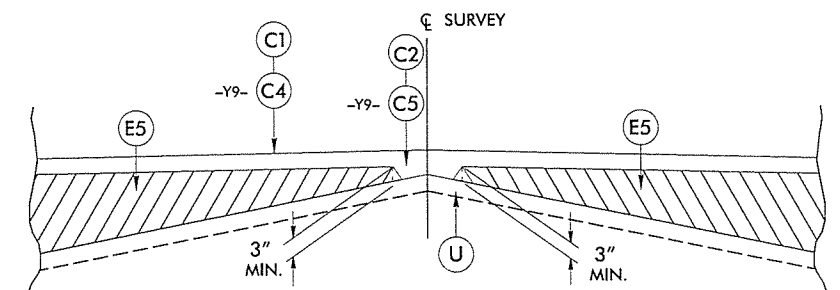
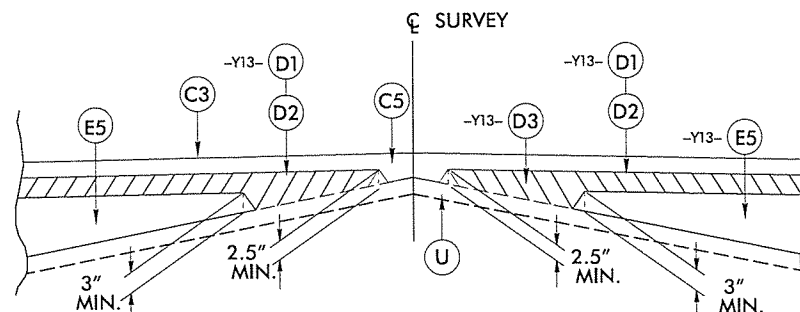


USE TYPICAL SECTION NO. 2A IN CONJUNCTION WITH TYPICAL SECTION NO. 1 AT THE FOLLOWING LOCATIONS:

- L- STA. 32+20.26 TO STA. 38+37.76 LT*
- L- STA. 74+14.22 TO STA. 75+63.04 RT*
- L- STA. 162+90.63 TO STA. 167+94.19 RT*
- L- STA. 177+60.00 TO STA. 182+97.18 LT*

*50' TRANSITION BETWEEN 1'-6" CURB AND 2'-9" CURB & GUTTER

- L- STA. 31+70.26 LT
- L- STA. 38+37.76 LT
- L- STA. 73+64.22 RT
- L- STA. 75+63.04 RT
- L- STA. 162+40.63 RT
- L- STA. 167+94.19 RT
- L- STA. 177+10.00 LT
- L- STA. 182+97.18 LT



Prepared by
URS
URS Corporation - North Carolina
1600 Perimeter Park Drive
Morrisville, North Carolina 27560
TELEPHONE: (919) 461-1100 FAX: (919) 461-1415
NC LICENSE # C-2243

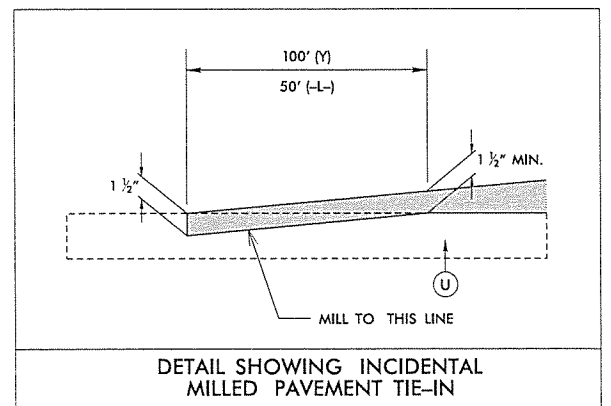
PROJECT REFERENCE NO. R-3825B	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER EDWARD GLENN EDGINS, JR.	PAVEMENT DESIGN ENGINEER CLARK S. MORRISON
SEAL 18470	SEAL 022896
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- USE TYPICAL SECTION NO. 1 AT THE FOLLOWING LOCATION:
- L- STA. 12+77.00 TO STA. 16+50.00 MILL & RESURFACE
 - L- STA. 16+50.00 TO STA. 23+50.50 RESURF. LT & RT
 - L- STA. 26+00.50 TO STA. 38+87.76 RESURF. LT & RT
 - L- STA. 50+30.17 TO STA. 62+07.50 RESURF. LT
 - L- STA. 73+64.22 TO STA. 76.32.36 RESURF. LT
 - L- STA. 95+55.70 TO STA. 107+83.69 RESURF. LT & RT
 - L- STA. 120+10.11 TO STA. 125+25.01 RESURF. LT & RT
 - L- STA. 153+22.00 TO STA. 171+16.31 RESURF. LT & RT
 - L- STA. 176+62.24 TO STA. 189+58.30 RESURF. LT & RT
 - L- STA. 194+80.16 TO STA. 199+60.16 RESURF. LT & RT
 - L- STA. 214+42.08 TO STA. 216+29.03 RESURF. LT & RT

NOTE 1: SEE TYPICAL SECTION NO. 3A & 3B FOR PAVEMENT STABILIZATION LOCATIONS.

USE TYPICAL SECTION NO. 2 AT THE FOLLOWING LOCATION:

- L- STA. 107+87.06 TO STA. 114+65.11
- L- STA. 199+60.16 TO STA. 214+42.08



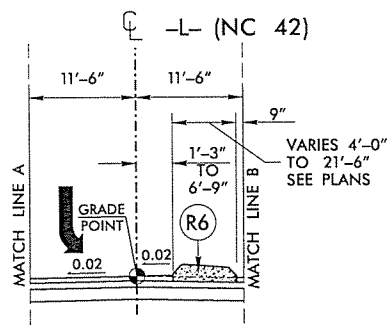
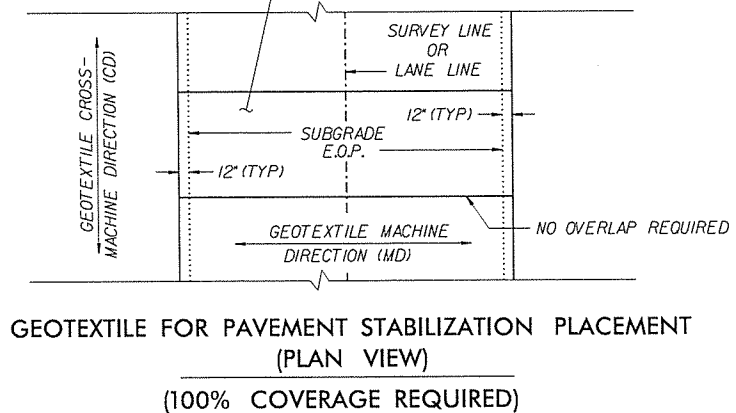
9/6/2018
R:\Work\04\Proj\18325b_r.dwg - typ.dgn
C:\Users\hlooper

8/17/99

PAVEMENT SCHEDULE
FINAL PAVEMENT DESIGN

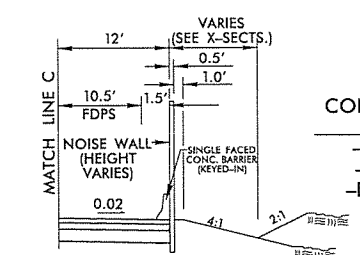
C1	2 1/2" S9.5B
C2	VAR. S9.5B
C3	1 1/2" S9.5C
C4	3" S9.5C
C5	VAR. S9.5C
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4 1/2" B25.0C
E2	5" B25.0C
E3	4" B25.0C
E4	5 1/2" B25.0C
E5	VAR. B25.0C
J1	6" ABC
J2	8" ABC
K	K LIME OR CEMENT
N	GEOTEXTILE PVMT. STAB.
P	PRIME COAT
R1	1'-6" C & G
R2	2'-6" C & G
R3	2'-9" C & G
R4	EXPRESSWAY GUTTER
R5	SHOULDER BERM GUTTER
R6	5" CONC. ISLAND
S	4" CONC. SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W1	WEDGING DETAIL No. 1
W2	WEDGING DETAIL No. 2

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE
TRENCH SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



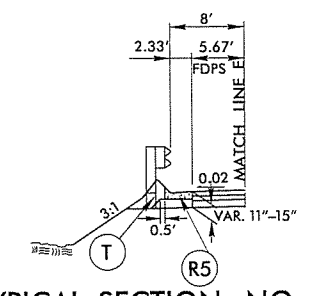
TYPICAL SECTION NO. 2B

USE TYPICAL SECTION NO. 2B IN CONJUNCTION WITH TYPICAL SECTION NO. 1, & 2 AT THE FOLLOWING LOCATIONS:
 -L- STA. 23+50.50 TO STA. 26+00.50
 -L- STA. 38+87.76 TO STA. 50+30.17
 -L- STA. 62+07.50 TO STA. 62+32.00
 -L- STA. 66+08.00 TO STA. 73+64.22
 -L- STA. 76+32.36 TO STA. 95+55.70
 -L- STA. 114+65.11 TO STA. 120+10.11
 -L- STA. 125+25.01 TO STA. 153+22.00
 -L- STA. 171+16.31 TO STA. 176+62.24
 -L- STA. 189+58.30 TO STA. 194+80.16



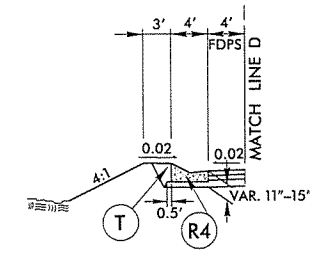
TYPICAL SECTION NO. 2C

USE TYPICAL SECTION NO. 2C IN CONJUNCTION WITH TYPICAL SECTION NO. 1 & 2 AT THE FOLLOWING LOCATIONS:
 -L- STA. 72+09.00 TO STA. 80+75.52 RT.
 -L- STA. 82+15.00 TO STA. 86+95.00 LT.
 -L- STA. 102+88.25 TO STA. 112+78.25 RT.



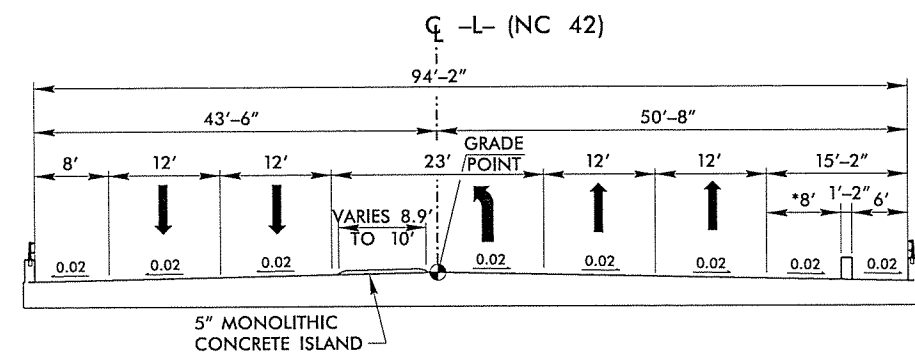
TYPICAL SECTION NO. 2E

USE TYPICAL SECTION NO. 2E IN CONJUNCTION WITH TYPICAL SECTION NO. 1, 2 & 8 AT THE FOLLOWING LOCATIONS:
 -L- STA. 26+78.00 TO STA. 29+46.00 LT.
 -L- STA. 48+77.00 TO STA. 50+98.00 LT.
 -L- STA. 57+26.25 TO STA. 62+07.50 LT.
 -L- STA. 57+08.25 TO STA. 62+07.50 RT.
 -L- STA. 66+32.50 TO STA. 67+38.75 RT.
 -L- STA. 66+32.50 TO STA. 67+42.00 LT.
 -L- STA. 104+01.91 TO STA. 107+85.00 LT.
 -L- STA. 112+97.00 TO STA. 115+10.00 RT.
 -L- STA. 127+05.00 TO STA. 129+98.00 RT.
 -L- STA. 127+96.00 TO STA. 129+53.00 LT.
 -L- STA. 133+35.00 TO STA. 137+03.00 RT.
 -L- STA. 135+12.00 TO STA. 138+05.00 LT.
 -L- STA. 154+75.00 TO STA. 158+68.00 RT.
 -L- STA. 155+12.00 TO STA. 159+05.00 LT.
 -L- STA. 166+30.00 TO STA. 173+34.00 LT.
 -L- STA. 193+01.04 TO STA. 194+00.00 LT.
 -L- STA. 200+70.00 TO STA. 203+38.00 RT.
 -L- STA. 200+22.00 TO STA. 202+65.00 LT.
 -Y12- STA. 17+02.23 TO STA. 20+46.28 RT.



TYPICAL SECTION NO. 2D

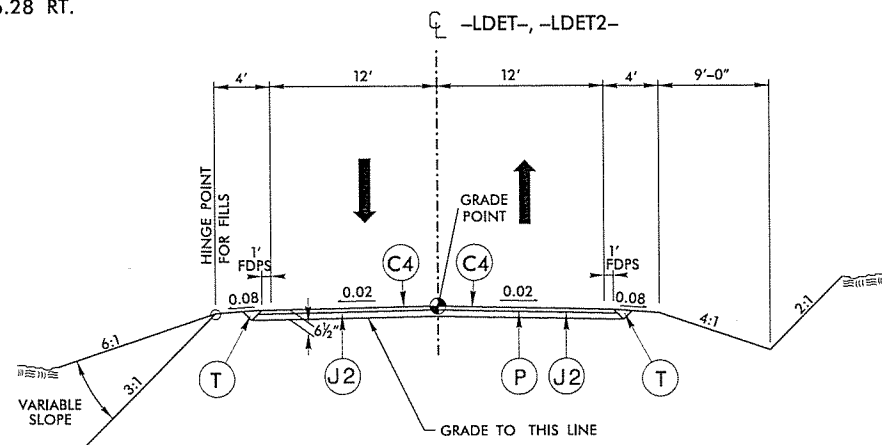
USE TYPICAL SECTION NO. 2D IN CONJUNCTION WITH TYPICAL SECTION NO. 1 & 2 AT THE FOLLOWING LOCATIONS:
 -L- STA. 116+45.00 TO STA. 121+20.13 LT.
 -L- STA. 119+50.00 TO STA. 122+50.00 RT.



TYPICAL SECTION NO. 2F

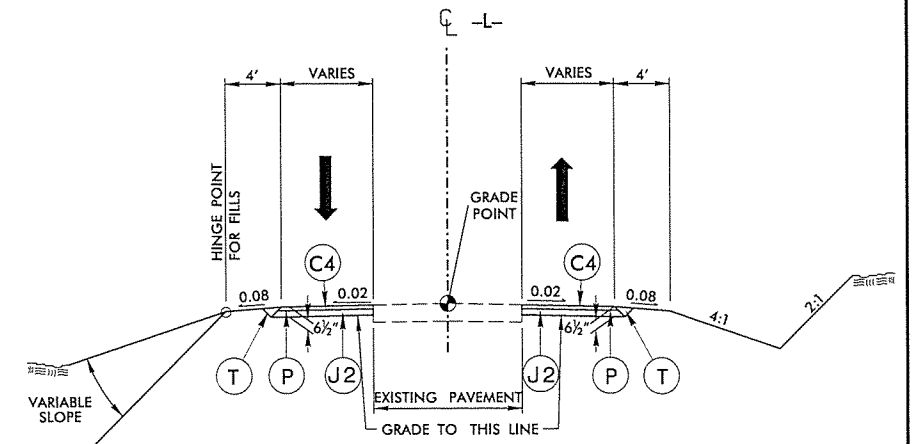
USE TYPICAL SECTION NO. 2F AT THE FOLLOWING LOCATION:
 FROM (BEGIN BRIDGE) -L- STA. 62+32.00 TO (END BRIDGE) -L- STA. 66+08.00

*MINIMUM 8' OFFSET TO BARRIER RAIL PER NCDOT BRIDGE POLICY



TYPICAL SECTION NO. 2G

USE TYPICAL SECTION NO. 2G AT THE FOLLOWING LOCATION:
 -LDET- STA. 35+50.00 TO STA. 43+57.41
 -LDET2- STA. 171+20.00 TO STA. 181+94.44



TEMPORARY PAVEMENT WIDENING DETAIL

USE TYPICAL SECTION AT THE FOLLOWING LOCATION:
 -L- STA. 32+70.00 TO STA. 35+50.00 LT (7'-10')
 -L- STA. 73+64.22 TO STA. 76+13.04 RT (6'-21')
 -L- STA. 75+70.00 TO STA. 138+50.00 LT (5'-33')
 -L- STA. 154+55.00 TO STA. 162+30.00 LT (3'-10')
 -L- STA. 172+20.00 TO STA. 186+00.00 LT (3'-19')
 -L- STA. 199+00.00 TO STA. 216+50.00 LT (5'-10')
 SEE TMP PLANS FOR TEMPORARY PAVEMENT WIDENING

Prepared by
URS
 URS Corporation - North Carolina
 1600 Perimeter Park Drive
 Morrisville, North Carolina 27560
 TELEPHONE 919/461-1100 FAX 919/461-1415
 NC LICENSE # C-2043

PROJECT REFERENCE NO.
R-3825B

SHEET NO.
2A-2

RW SHEET NO.

ROADWAY DESIGN ENGINEER
 SEAL 18470
 EDWARD GLENN EDENS, JR.

PAVEMENT DESIGN ENGINEER
 SEAL 022896
 CLARK S. MORRISON

DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

REVISIONS

R:\S\2008\05\11\Prj\01\NR3825b_r.dwg - tuj.dgn
 11/11/08 10:41:10 AM

MANAGEMENT STRATEGIES

-L- (NC 42)

IN PHASE 1 - STEP 1, TRAFFIC IS MAINTAINED ON EXISTING TRAVEL LANES AND CONSTRUCTION MAY BEGIN ON THE LEFT, RIGHT, OR BOTH SIDES OF THE ROAD, INCLUDING TEMPORARY PAVEMENT NEEDED FOR INTERIM TRAFFIC SHIFTS IN PHASE 1, STAGE 1 OF THE CULVERT AT -L- STA. 167+00 AND STAGE 1 OF THE BRIDGE OVER THE NEUSE RIVER. WEDGING OVER EXISTING PAVEMENT WILL BE REQUIRED IN SEVERAL AREAS IN ORDER TO MAINTAIN TRAFFIC.

IN PHASE 1 - STEP 2, TRAFFIC IS SHIFTED LEFT ONTO NEW AND TEMPORARY PAVEMENT TO CONSTRUCT THE RIGHT SIDE OF THE ROADWAY FROM THE BEGINNING OF THE PROJECT THROUGH -Y12A- (FLOWERS PKWY), INCLUDING STAGE 1 OF THE CULVERT AT -L- STA. 114+15. WEDGING AND WIDENING OPERATIONS CONTINUE ON BOTH SIDES OF THE ROAD FROM -Y12A- (FLOWERS PKWY) THROUGH THE END OF THE PROJECT, INCLUDING -Y13- (BUFFALO RD).

DURING PHASE 1, ALL WORK ALONG -L- FROM PROJECT BEGIN TO APPROXIMATELY -L- STA. 35+50 +/- IS COMPLETED DURING AN 18-MONTH ICT IN ORDER TO OPEN ALL 4 LANES TO TRAFFIC IN THIS AREA. (SEE PLANS FOR PHASE/STEP THAT CONSTRUCTION OCCURS)

IN PHASE 2, TRAFFIC IS SHIFTED RIGHT ONTO NEW PAVEMENT. DURING THIS PHASE, THE REMAINDER OF THE LEFT SIDE OF ROADWAY, STAGE 2 OF THE CULVERT AT -L- STA. 114+15 +/-, STAGE 2 OF THE CULVERT AT -L- STA. 167+00 +/-, STAGE 2 OF THE BRIDGE OVER THE NEUSE RIVER (INCLUDING CLOSURE POUR) AND THE WEDGING AND WIDENING FROM -Y12A- (FLOWERS PKWY) THROUGH THE END OF THE PROJECT, INCLUDING -Y13- (BUFFALO RD) WILL BE COMPLETED.

IN PHASE 3, TRAFFIC IS SPLIT TO THE OUTSIDE TO ALLOW THE MEDIAN ISLANDS TO BE CONSTRUCTED.

ONCE ALL WORK IS COMPLETE, THE FINAL LAYER OF SURFACE COURSE AND FINAL MARKINGS & MARKERS WILL BE PLACED.

-Y- LINES

TRAFFIC ON -Y4- & -Y5- IS MAINTAINED IN EXISTING LANES WHILE TEMPORARY ALIGNMENTS ARE CONSTRUCTED ADJACENT TO THEIR CORRESPONDING -Y- LINES. ONCE THESE ALIGNMENTS ARE COMPLETE, TRAFFIC IS SHIFTED TO THE TEMPORARY PAVEMENT AND -Y4- & -Y5- CAN BE COMPLETELY REBUILT AWAY FROM TRAFFIC.

-Y6-, -Y8-, -Y10-, -Y10B-, -Y10C-, -Y11-, -Y11C-, -Y12-, -Y13-, & -DR1- WILL ALL BE CONSTRUCTED USING LANE CLOSURES AND MAINTAINING TRAFFIC IN THE EXISTING PATTERN.

-Y10A- WILL BE CLOSED FOR CONSTRUCTION AND DETOURED VIA -Y9-.

-Y11A- WILL BE CLOSED FOR CONSTRUCTION AND DETOURED VIA VERONA DRIVE.

-Y11B- WILL BE CLOSED FOR CONSTRUCTION AND DETOURED VIA TUSCAN RIDGE ROAD. VERONA DRIVE WILL BE CONSTRUCTED IN PHASE 2 ONCE TUSCAN RIDGE ROAD HAS BEEN COMPLETED AND RE-OPENED TO TRAFFIC.

GENERAL NOTES

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRABLE OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- (NC 42)	MONDAY - SUNDAY
-Y13- (BUFFALO RD)	6:00 A.M. - 8:00 P.M.
-Y6- (CASTLEBERRY RD)	MONDAY - FRIDAY
& -Y7- (E SCHOOL RD)	7:00 A.M. - 9:00 A.M. & 2:00 P.M. - 5:00 P.M.

B) DO NOT CLOSE ROADS AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-Y7- (E SCHOOL RD)	MONDAY - FRIDAY 7:00 A.M. - 5:00 P.M. AND ANY OTHER TIME SCHOOL IS IN SESSION

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
-L- (NC 42)	MONDAY - SUNDAY: 4:00 A.M. - 12:00 A.M. (MIDNIGHT)	30 MINUTES FOR BRIDGE WORK & SIGNAL MAST ARM INSTALLATION

NOTIFY FIRE DEPARTMENT AND EMERGENCY MANAGEMENT SERVICES DURING THESE OPERATIONS, AS DIRECTED BY THE ENGINEER.

D) DO NOT CONDUCT SINGLE VEHICLE HAULING & MATERIAL DELIVERY AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	MONDAY - FRIDAY: 6:00 A.M. - 9:00 A.M. 2:00 P.M. - 8:00 P.M.

E) DO NOT CONDUCT MULTI-VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	MONDAY - FRIDAY: 6:00 A.M. - 8:00 P.M.

F) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- G) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- H) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- I) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- J) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- K) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- L) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- M) DO NOT INSTALL MORE THAN ONE MILE OF LANE CLOSURE ON NC 42 MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.
- N) DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON NC 42.
- O) PROVIDE A MINIMUM OF 1 MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.
- P) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PROJ. REFERENCE NO. R-3825B	SHEET NO. TMP-1B
HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

PLOT DRIVER: NCDOT_pdf_color_eng_100.plt
 USER: BSCOTT
 FILE: pw:\pwhdr\useas01\HDR_US_East_01\Documents\3322\10001376\100515231\6.0.CAD.BIM\6.2.Work.In.Progress\TrafficControl\TCP\R3825B.TC.TMP-01B.dgn
 PENTABLE: NCDOT_tcp.tbl
 TIME: 11:39:54 PM
 DATE: 9/6/2018

APPROVED: <i>Michelle Ward</i> DATE: 9/6/2018 SEAL			TRANSPORTATION OPERATIONS PLAN
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

Prepared In the Office of:

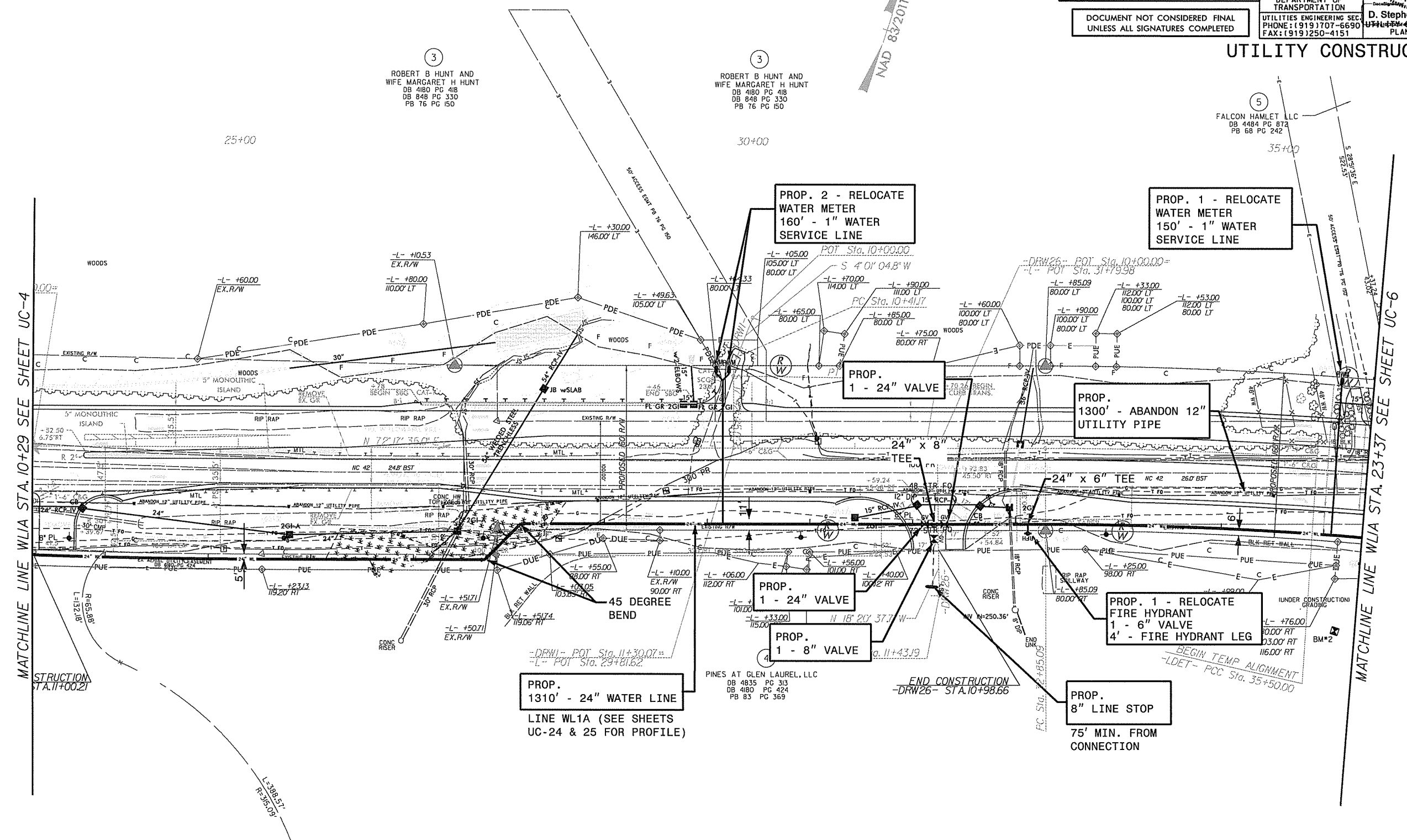


AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6299 (fax)
F - 0342

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-5
DESIGNED BY:		DATE	9/10/2018
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		D. Stephen Scruggs SEAL 10666 ENGINEER	
UTILITIES ENGINEERING SEC.		CONSTRUCTION PLANS ONLY	
PHONE: (919) 707-6690		FAX: (919) 250-4151	

UTILITY CONSTRUCTION



MATCHLINE LINE WL1A STA. 10+29 SEE SHEET UC-4

MATCHLINE LINE WL1A STA. 23+37 SEE SHEET UC-6

PROP. 1310' - 24" WATER LINE
LINE WL1A (SEE SHEETS
UC-24 & 25 FOR PROFILE)

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 2495 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 9/7/2018
TIME: 2:55:52 PM
DRAWN: R3825B_UC_24UC5.dgn

THE SHOPPES AT GLEN LAUREL
DB 4835 PG 316
PB 83 PG 369

ROBERT B HUNT AND
WIFE MARGARET H HUNT
DB 4180 PG 418
DB 848 PG 330
PB 76 PG 150

ROBERT B HUNT AND
WIFE MARGARET H HUNT
DB 4180 PG 418
DB 848 PG 330
PB 76 PG 150

FALCON HAMLET LLC
DB 4484 PG 872
PB 68 PG 242

PINES AT GLEN LAUREL, LLC
DB 4835 PG 313
DB 4800 PG 424
PB 83 PG 369

END CONSTRUCTION
-DRW26- STA. 10+98.66

PROP. 8" LINE STOP
75' MIN. FROM
CONNECTION

Prepared in the Office of:

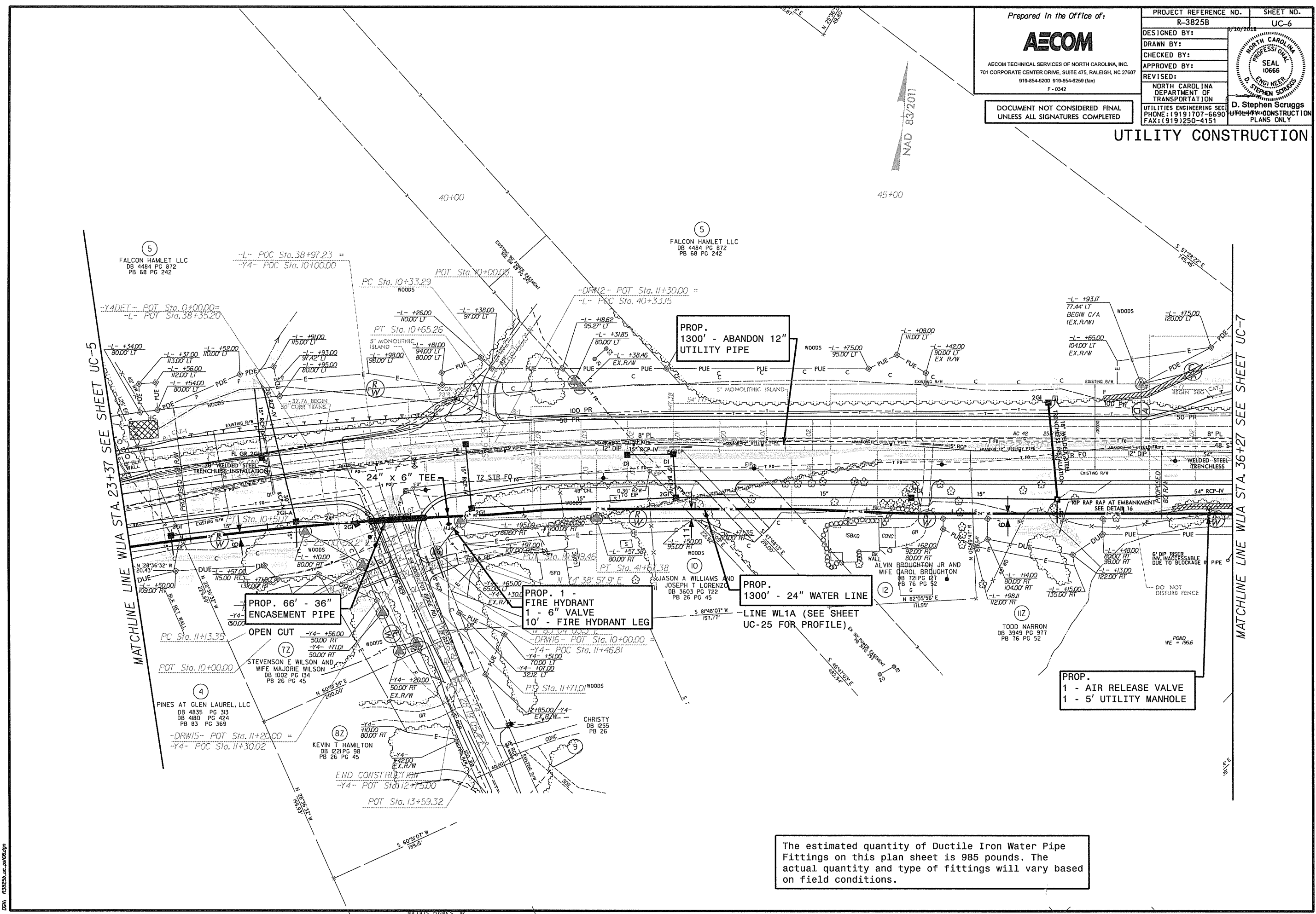
AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

PROJECT REFERENCE NO. R-3825B	SHEET NO. UC-6
DESIGNED BY:	7/10/2018
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
D. Stephen Scruggs UTILITIES ENGINEERING SEE PHONE: (919) 707-6690 FAX: (919) 250-4151	

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION



MATCHLINE LINE WL1A STA. 23+37 SEE SHEET UC-5

MATCHLINE LINE WL1A STA. 36+27 SEE SHEET UC-7

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 985 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 07/09/18
TIME: 08:54 AM
USER: AERES/LE...
DWG: AERES/LE...

Prepared in the Office of:



AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-9
DESIGNED BY:		DATE	11/10/2010
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA PROFESSIONAL SEAL 10666		D. Stephen Scruggs	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITIES ENGINEERING SECTION	
UTILITY CONSTRUCTION PLANS ONLY		PHONE: (919) 707-6690 FAX: (919) 250-4151	

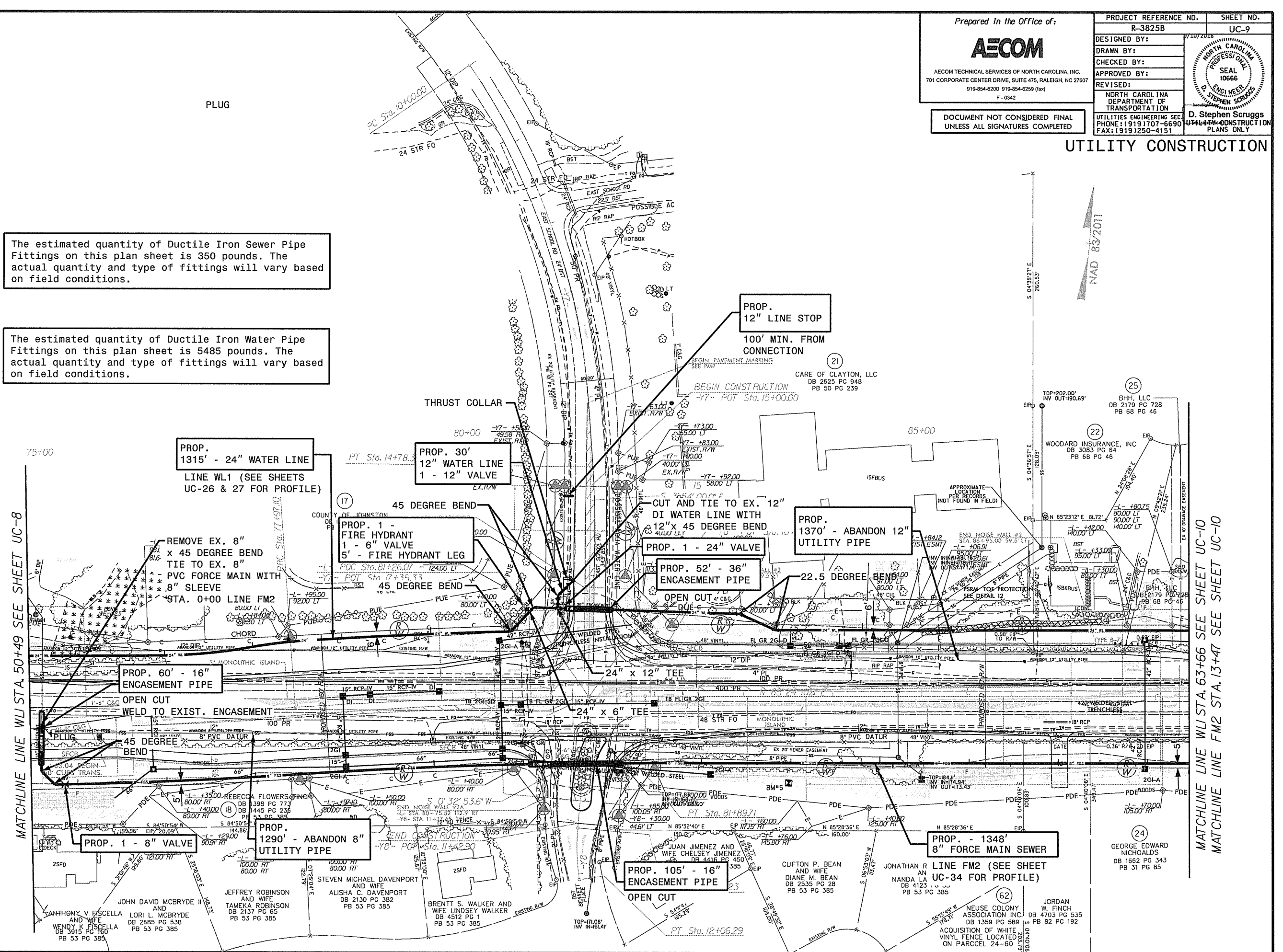
UTILITY CONSTRUCTION

The estimated quantity of Ductile Iron Sewer Pipe Fittings on this plan sheet is 350 pounds. The actual quantity and type of fittings will vary based on field conditions.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 5485 pounds. The actual quantity and type of fittings will vary based on field conditions.

MATCHLINE LINE WL1 STA. 50+49 SEE SHEET UC-8

MATCHLINE LINE FM2 STA. 13+47 SEE SHEET UC-10



DATE: 07/20/10
TIME: 04:50 PM
DRAWN: R3825B-UC-9

Prepared In the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

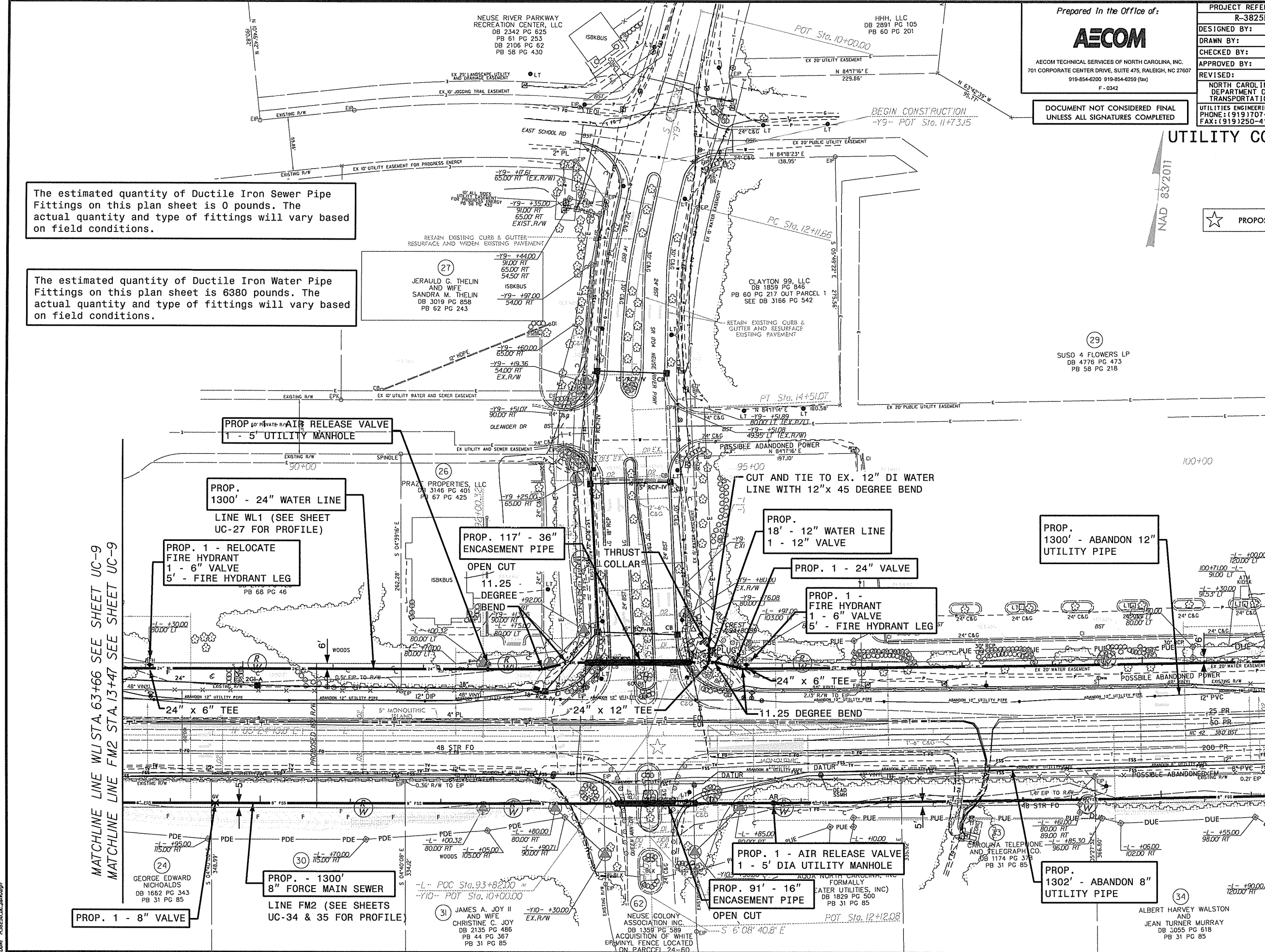
PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-10
DESIGNED BY:		DATE	9/10/2018
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		D. Stephen Scruggs REGISTERED PROFESSIONAL ENGINEER SEAL 10666 EXPIRES 12/31/2020	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

★ PROPOSED SIGNAL

The estimated quantity of Ductile Iron Sewer Pipe Fittings on this plan sheet is 0 pounds. The actual quantity and type of fittings will vary based on field conditions.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 6380 pounds. The actual quantity and type of fittings will vary based on field conditions.



MATCHLINE LINE WL1 STA. 63+66 SEE SHEET UC-9
MATCHLINE LINE FM2 STA. 13+47 SEE SHEET UC-9

MATCHLINE LINE WL1 STA. 76+66 SEE SHEET UC-11
MATCHLINE LINE FM2 STA. 26+48 SEE SHEET UC-11

DATE: 9/7/2018
TIME: 8:54:17 PM
DWG: R3825B_UC-10.dwg

ALBERT HARVEY WALSTON
AND
JEAN TURNER MURRAY
DB 3055 PG 618
PB 31 PG 85

Prepared in the Office of:



AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

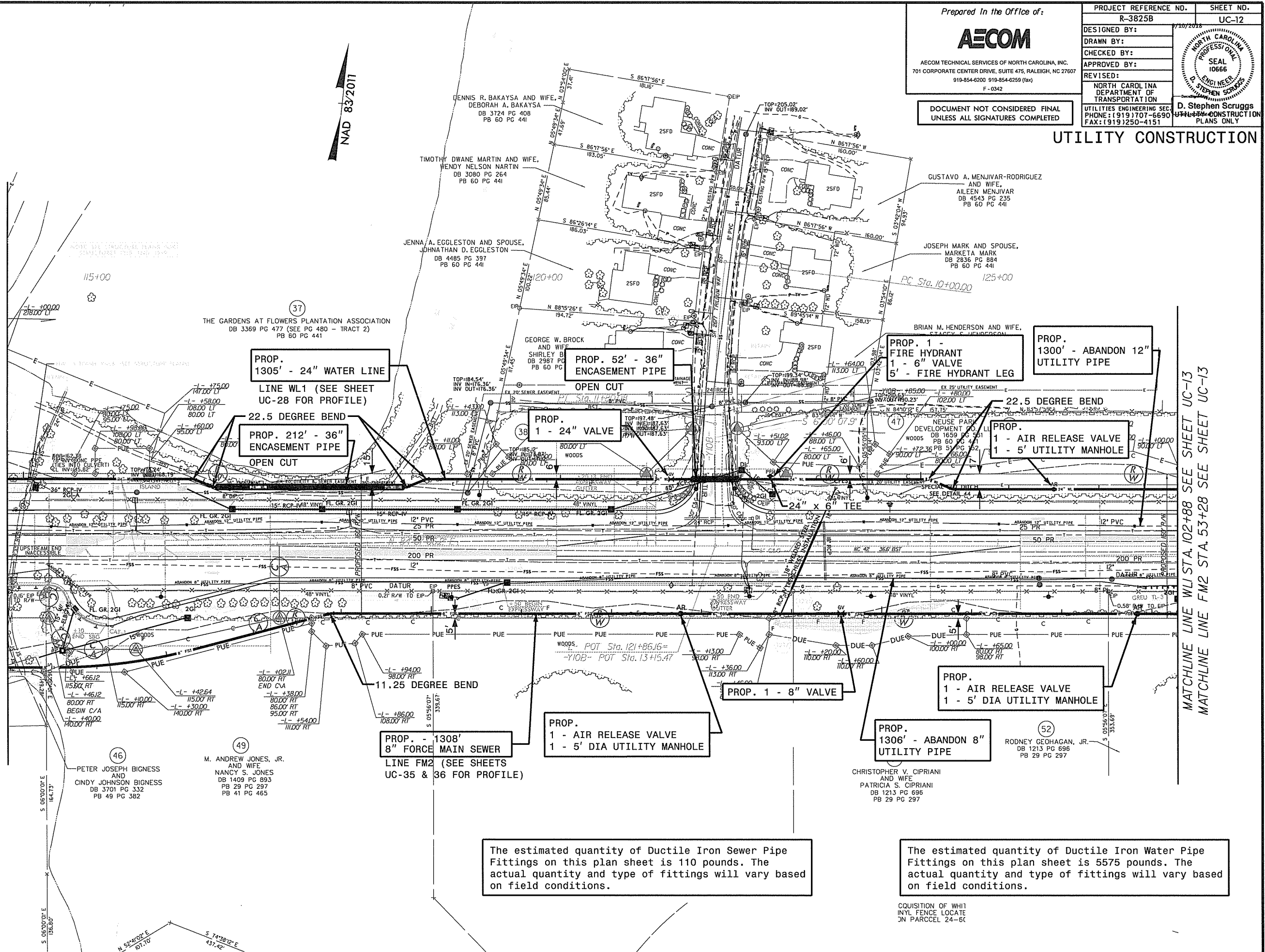
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-12
DESIGNED BY:		DATE	7/10/2016
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		D. Stephen Scruggs SEAL 10666 ENGINEER CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC.		PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

MATCHLINE LINE WL1 STA. 89+82 SEE SHEET UC-11
MATCHLINE LINE FM2 STA. 40+21 SEE SHEET UC-11

MATCHLINE LINE WL1 STA. 102+88 SEE SHEET UC-13
MATCHLINE LINE FM2 STA. 53+28 SEE SHEET UC-13



The estimated quantity of Ductile Iron Sewer Pipe Fittings on this plan sheet is 110 pounds. The actual quantity and type of fittings will vary based on field conditions.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 5575 pounds. The actual quantity and type of fittings will vary based on field conditions.

ACQUISITION OF WHI INYL FENCE LOCATE ON PARCEL 24-6C

DATE: 9/7/2016
TIME: 2:54:44 PM
DRAWN: A0023232-00122016

Prepared In the Office of:

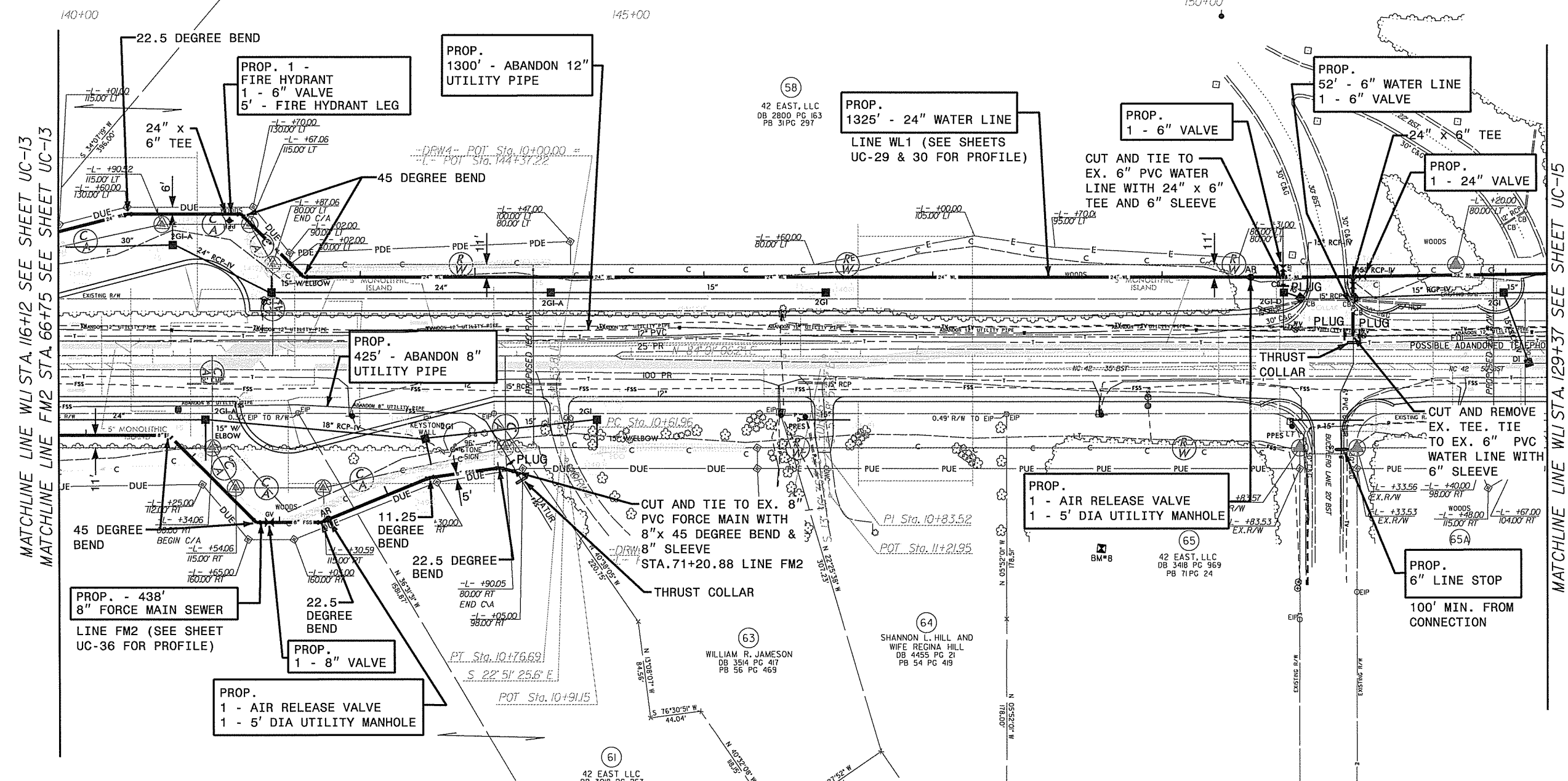


AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6250 (fax)
F - 0342

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-14
DESIGNED BY:		DATE	7/10/2018
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		D. Stephen Scruggs SEAL 10666 ENGINEER STEPHEN SCRUGGS	
UTILITIES ENGINEERING SECTION		CONSTRUCTION PLANS ONLY	
PHONE: (919) 707-6690		FAX: (919) 250-4151	

UTILITY CONSTRUCTION



MATCHLINE LINE WL1 STA. 116+12 SEE SHEET UC-13
MATCHLINE LINE FM2 STA. 66+75 SEE SHEET UC-13

MATCHLINE LINE WL1 STA. 129+37 SEE SHEET UC-15

The estimated quantity of Ductile Iron Sewer Pipe Fittings on this plan sheet is 790 pounds. The actual quantity and type of fittings will vary based on field conditions.

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 5555 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 9/7/2018
TIME: 11:41 AM
DRAWN: R3825B-UC-14.dwg

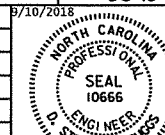
Prepared In the Office of:



AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6250 (fax)
F - 0342

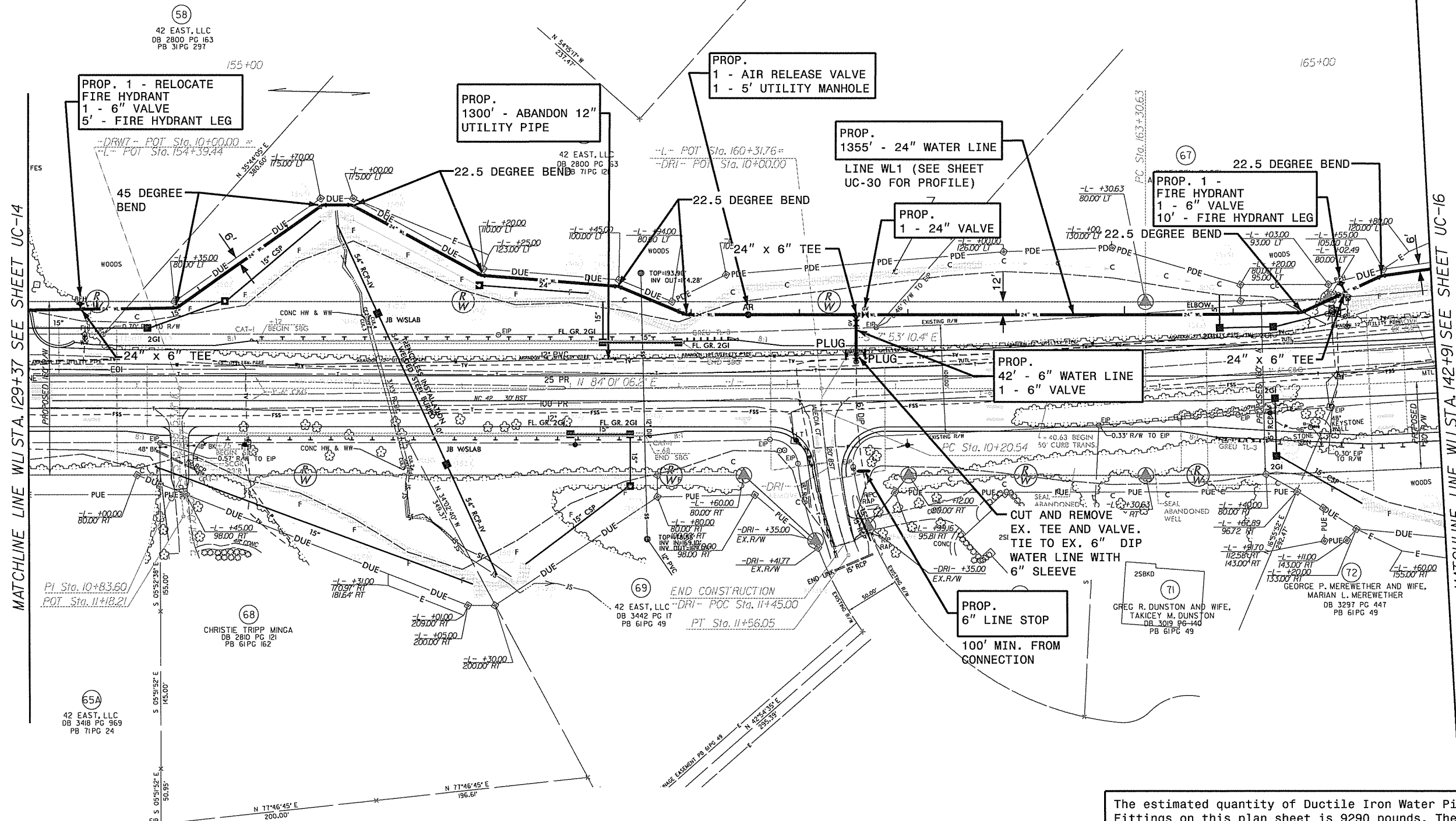
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-15
DESIGNED BY:		9/10/2018	
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION			
UTILITIES ENGINEERING SECTION			
PHONE: (919) 707-6690			
FAX: (919) 250-4151			



D. Stephen Scruggs
PHYSICIAN IN CHARGE
PLANS ONLY

UTILITY CONSTRUCTION



MATCHLINE LINE WL STA. 129+37 SEE SHEET UC-14

MATCHLINE LINE WL STA. 142+91 SEE SHEET UC-16

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 9290 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 9/17/2018
TIME: 8:55:07 PM
DRAWN: RSC/SLC/UC-15.dgn

Prepared In the Office of:

AECOM

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F - 0342

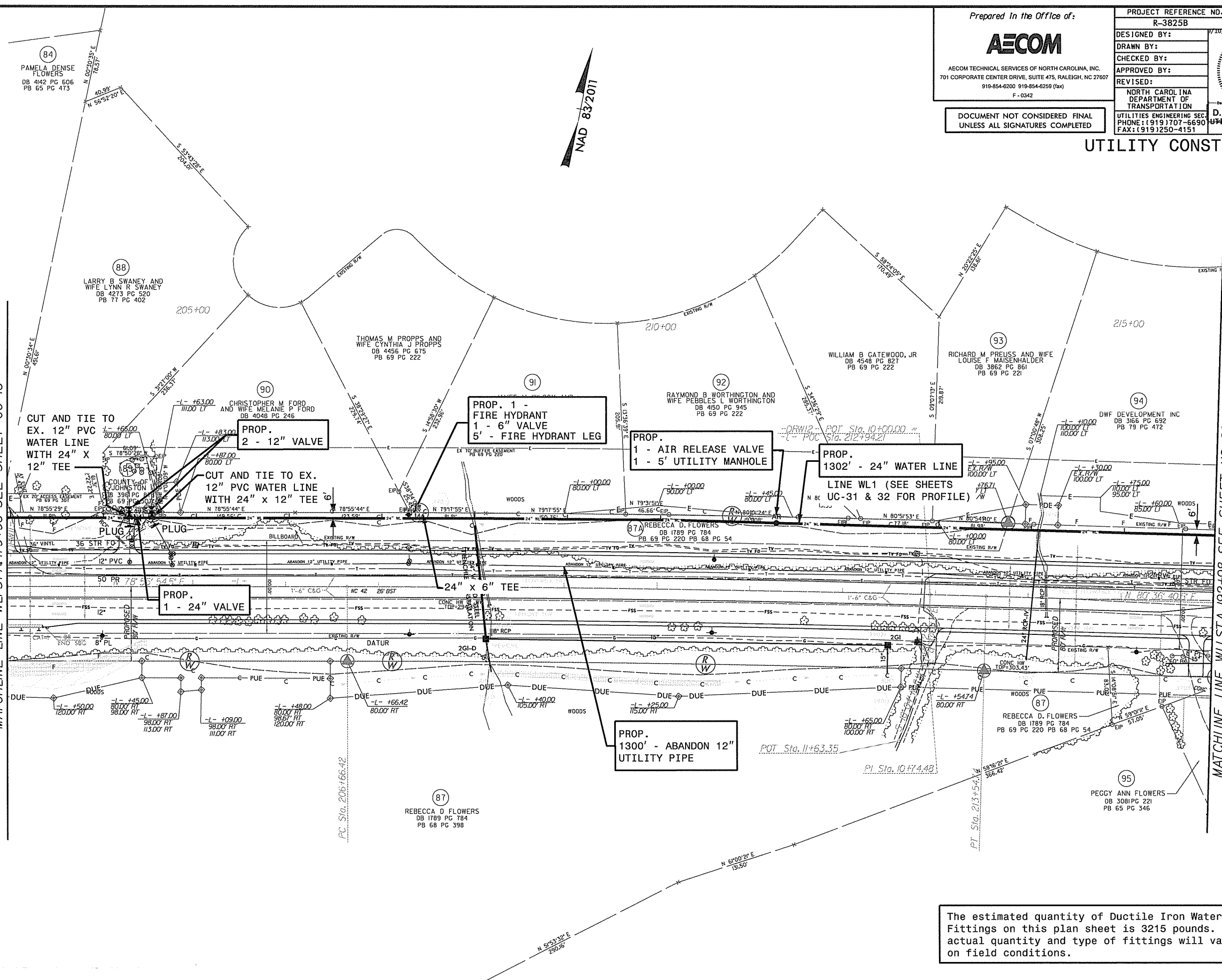
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-19
DESIGNED BY:		DATE	11/10/2018
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		D. Stephen Scruggs SEAL 10666 ENGINEER CONSTRUCTION PLANS ONLY	
UTILITIES ENGINEERING SEC.		PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION

MATCHLINE LINE WL1 STA. 179+96 SEE SHEET UC-18

MATCHLINE LINE WL1 STA. 192+98 SEE SHEET UC-20



84
PAMELA DENISE FLOWERS
DB 442 PG 606
PB 65 PG 473

88
LARRY B SWANEY AND WIFE LYNN R SWANEY
DB 4273 PG 520
PB 77 PG 402

THOMAS M PROPPS AND WIFE CYNTHIA J PROPPS
DB 4456 PG 675
PB 69 PG 222

90
CHRISTOPHER M FORD AND WIFE MELANIE P FORD
DB 4048 PG 246

91

92
RAYMOND B WORTHINGTON AND WIFE PEBBLES L WORTHINGTON
DB 4150 PG 945
PB 69 PG 222

WILLIAM B GATEWOOD, JR
DB 4548 PG 827
PB 69 PG 222

93
RICHARD M. PREUSS AND WIFE LOUISE F MAISENHALDER
DB 3862 PG 861
PB 69 PG 221

94

DWF DEVELOPMENT INC
DB 3166 PG 692
PB 79 PG 472

CUT AND TIE TO EX. 12" PVC WATER LINE WITH 24" X 12" TEE

CUT AND TIE TO EX. 12" PVC WATER LINE WITH 24" X 12" TEE

PROP. 1 - FIRE HYDRANT
1 - 6" VALVE
5' - FIRE HYDRANT LEG

PROP. 1 - AIR RELEASE VALVE
1 - 5' UTILITY MANHOLE

PROP. 1302' - 24" WATER LINE
LINE WL1 (SEE SHEETS UC-31 & 32 FOR PROFILE)

PROP. 1 - 24" VALVE

24" X 6" TEE

PROP. 1300' - ABANDON 12" UTILITY PIPE

87
REBECCA D. FLOWERS
DB 1789 PG 784
PB 68 PG 398

87
REBECCA D. FLOWERS
DB 1789 PG 784
PB 69 PG 220 PB 68 PG 54

95
PEGGY ANN FLOWERS
DB 3081 PG 221
PB 65 PG 346

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 3215 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 8/7/2018
TIME: 10:40 AM
DRAWN: REBECCA.D.FLOWERS

Prepared In the Office of:

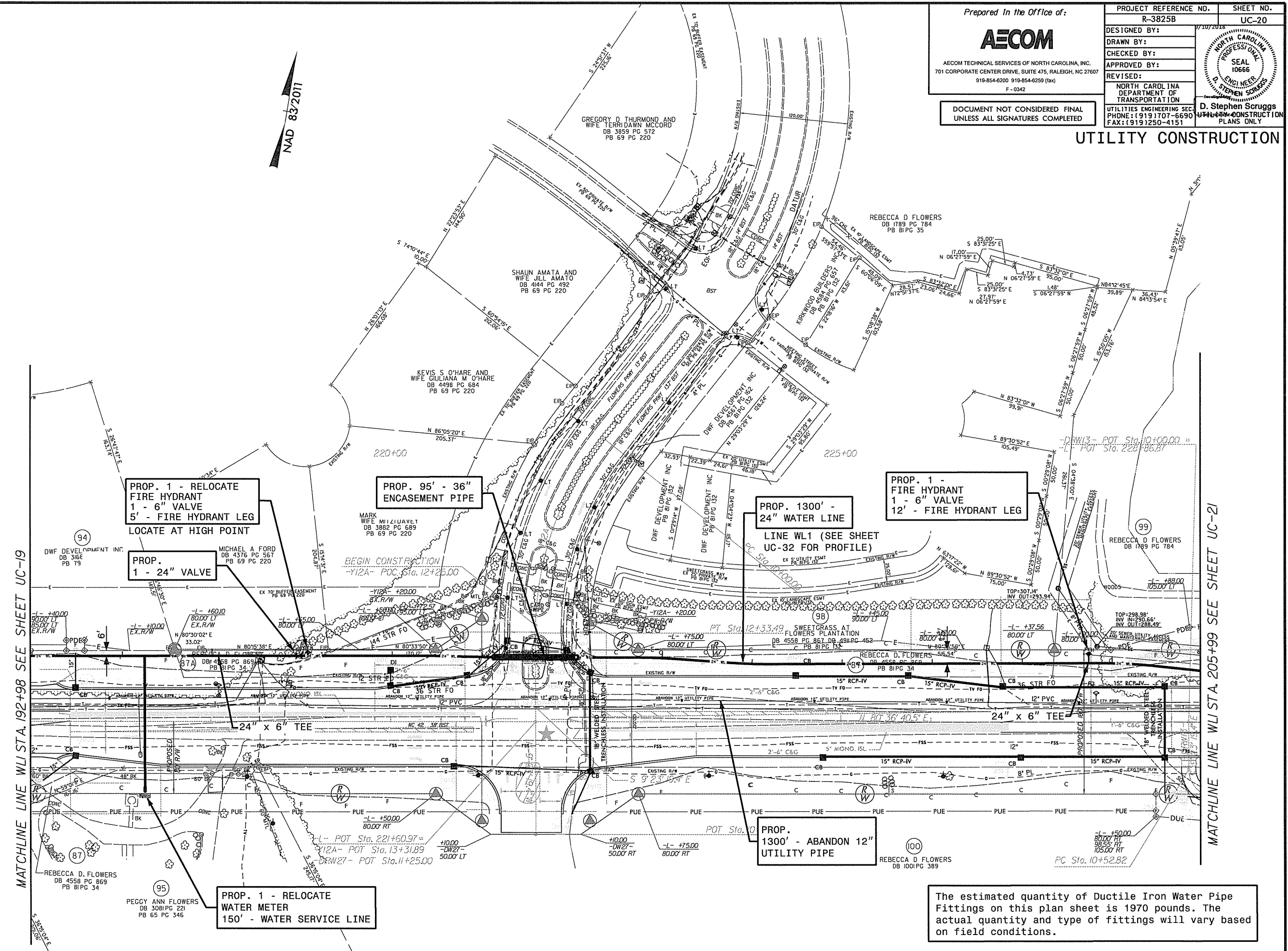


AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO.	R-3825B	SHEET NO.	UC-20
DESIGNED BY:		DATE	11/10/2018
DRAWN BY:			
CHECKED BY:			
APPROVED BY:			
REVISED:			
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		D. Stephen Scruggs SEAL 10666 ENGINEER NORTH CAROLINA DEPARTMENT OF TRANSPORTATION PLANS ONLY	
UTILITIES ENGINEERING SEC.		PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION



MATCHLINE LINE WL1 STA. 192+98 SEE SHEET UC-19

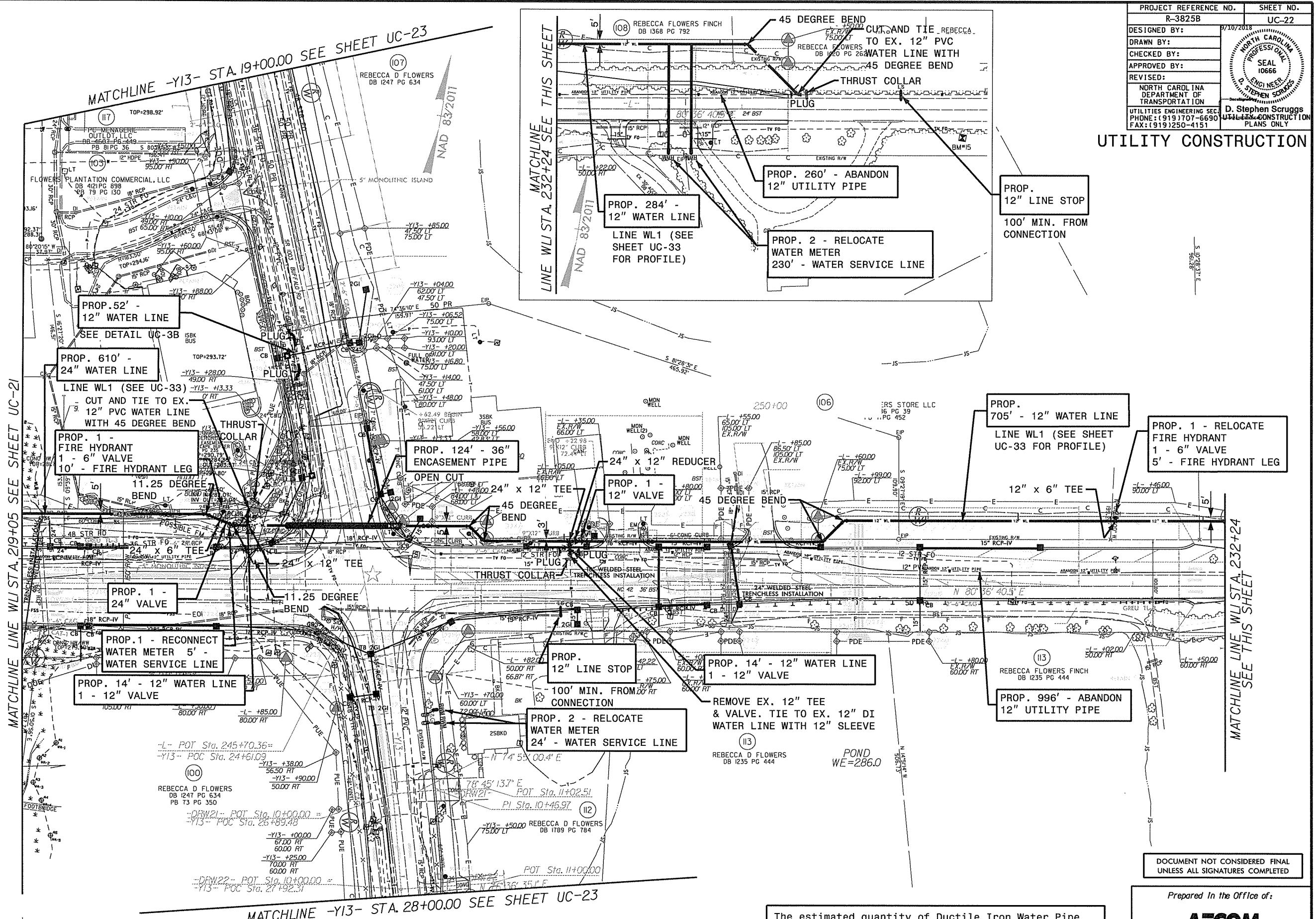
MATCHLINE LINE WL1 STA. 205+99 SEE SHEET UC-21

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 1970 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 9/7/2018
TIME: 2:55:41 PM
DRAWN: RUSSELL, J. JR.

PROJECT REFERENCE NO.	SHEET NO.
R-3825B	UC-22
DESIGNED BY:	9/10/2018
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs PE License No. 10666 PLANS ONLY	

UTILITY CONSTRUCTION



DATE: 9/7/2018
 TIME: 2:56:54 PM
 DGN: R3825B_UC-22.dgn

The estimated quantity of Ductile Iron Water Pipe Fittings on this plan sheet is 9585 pounds. The actual quantity and type of fittings will vary based on field conditions.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Office of:

AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
 701 CORPORATE CENTER DRIVE, SUITE 476, RALEIGH, NC 27607
 919-854-6200 919-854-6259 (fax)
 F-0342

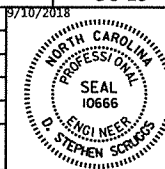
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared In the Office of:

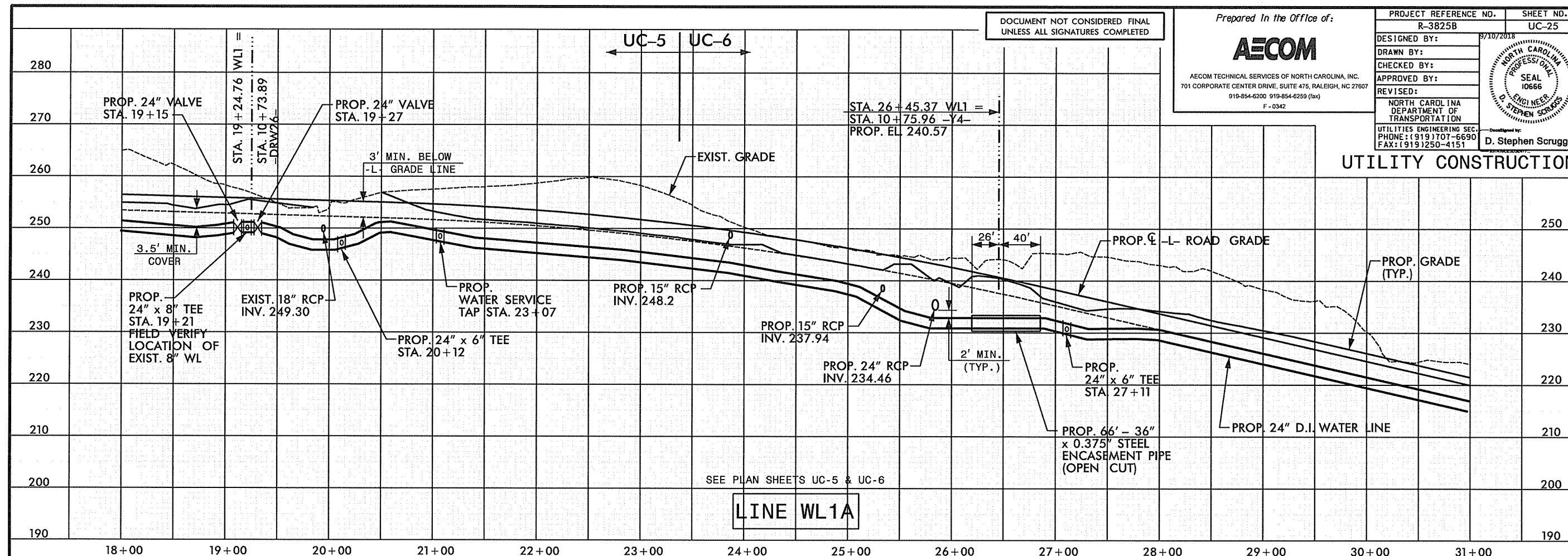


AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

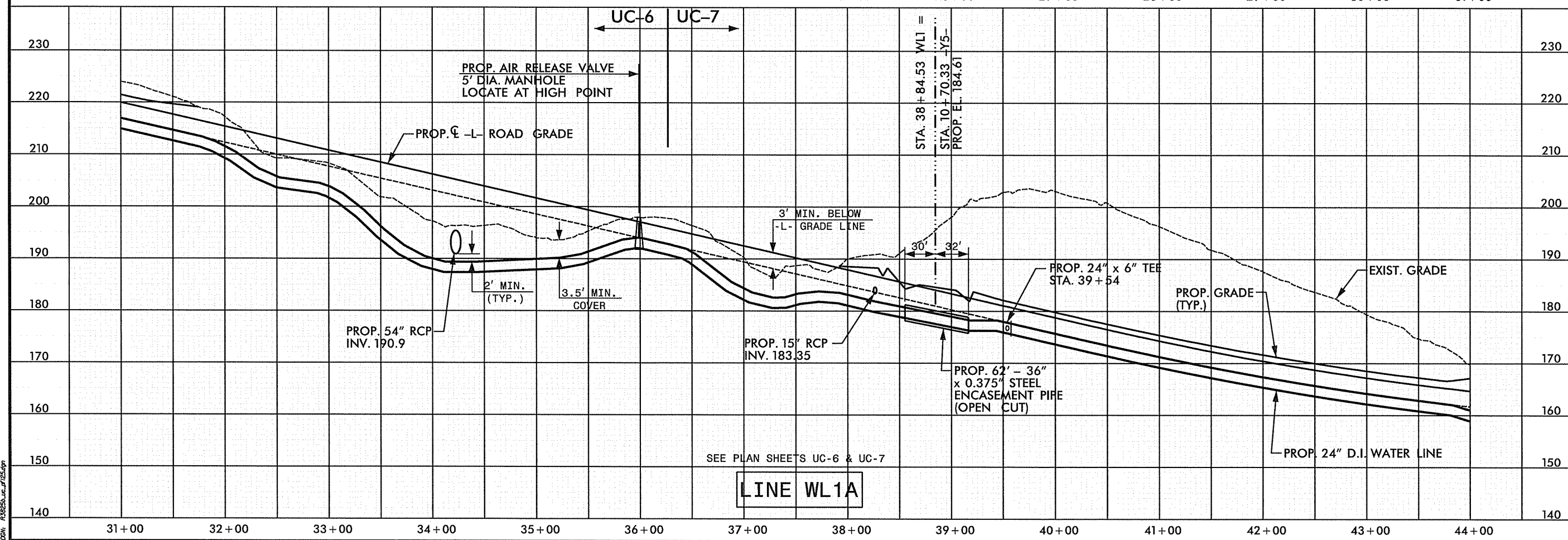
PROJECT REFERENCE NO. R-3825B	SHEET NO. UC-25
DESIGNED BY: 9/10/2018	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
Designed by: D. Stephen Scruggs	



UTILITY CONSTRUCTION



LINE WL1A



LINE WL1A

DATE: 9/7/2018
TIME: 3:52 PM
DWG: R3825B-UC-25.dwg

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Prepared In the Office of:



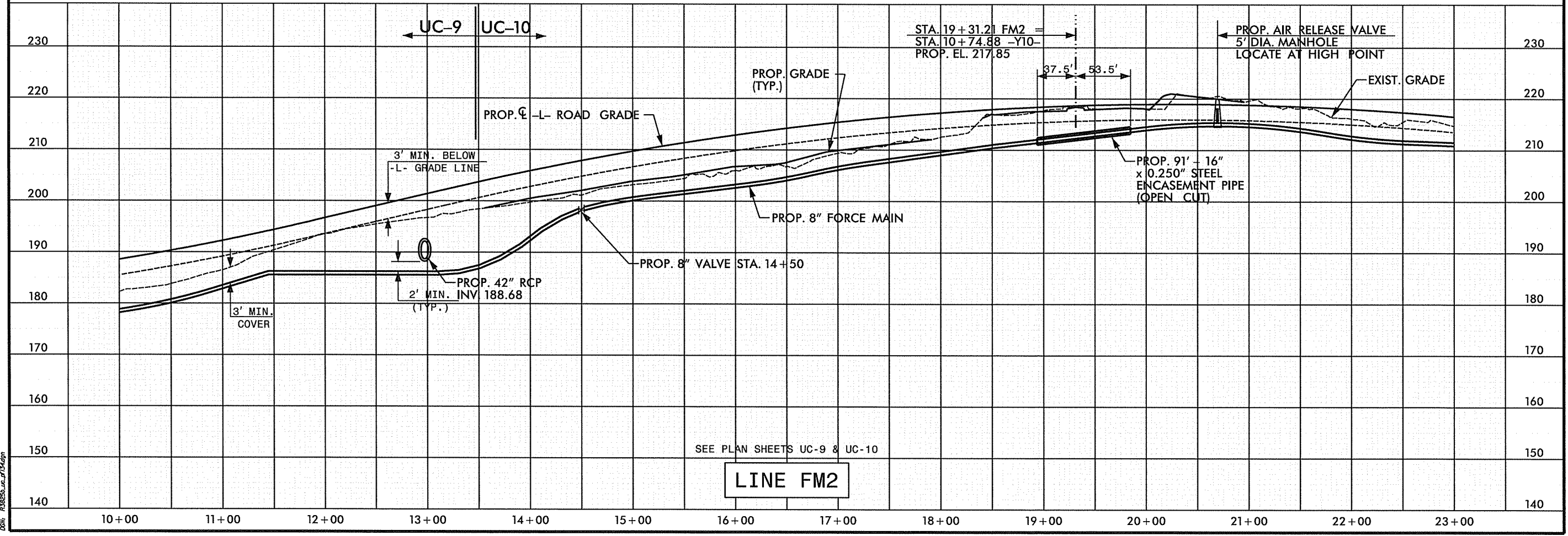
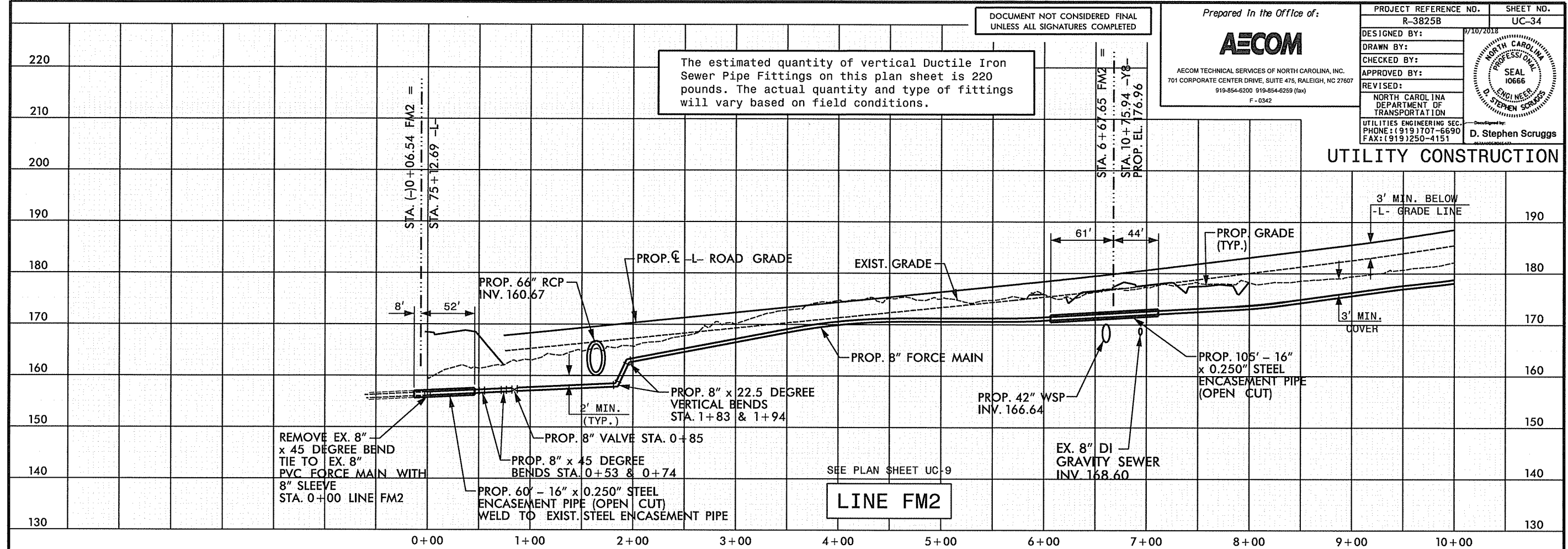
AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-3825B	SHEET NO. UC-34
DESIGNED BY:	9/10/2018
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
D. Stephen Scruggs	



The estimated quantity of vertical Ductile Iron Sewer Pipe Fittings on this plan sheet is 220 pounds. The actual quantity and type of fittings will vary based on field conditions.

UTILITY CONSTRUCTION



DATE: 9/7/2018
TIME: 3:54:53 PM
DRAWN: R3825B_UC-34.dgn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

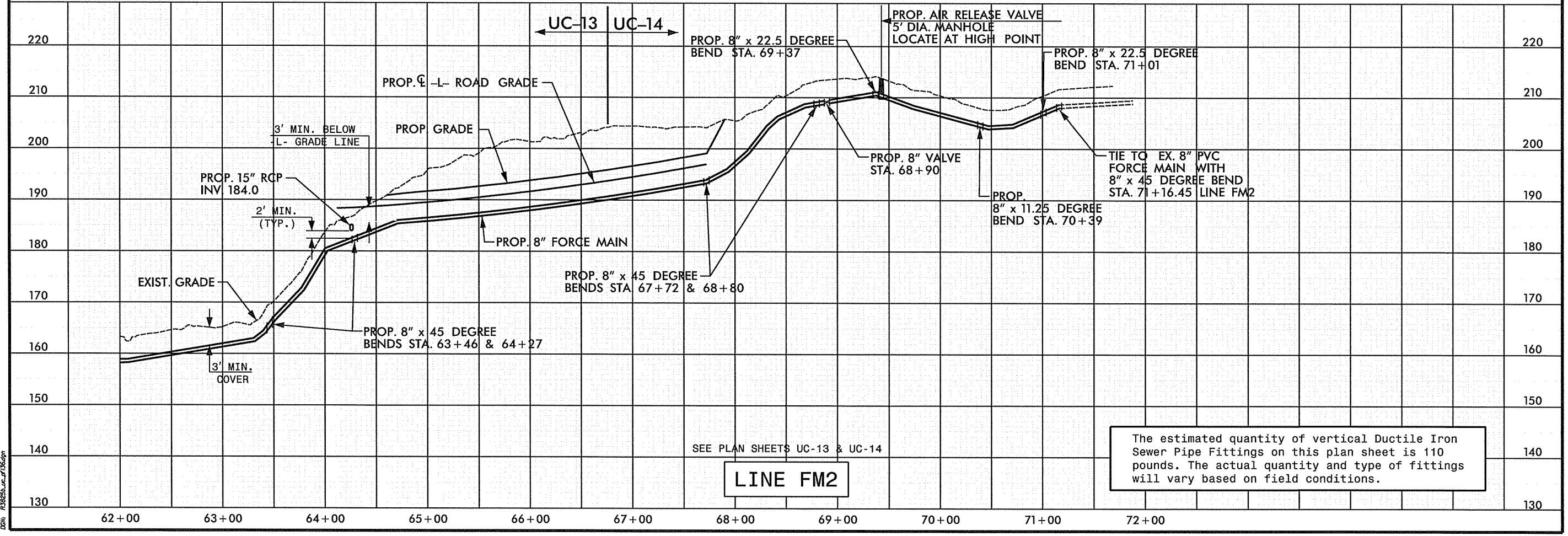
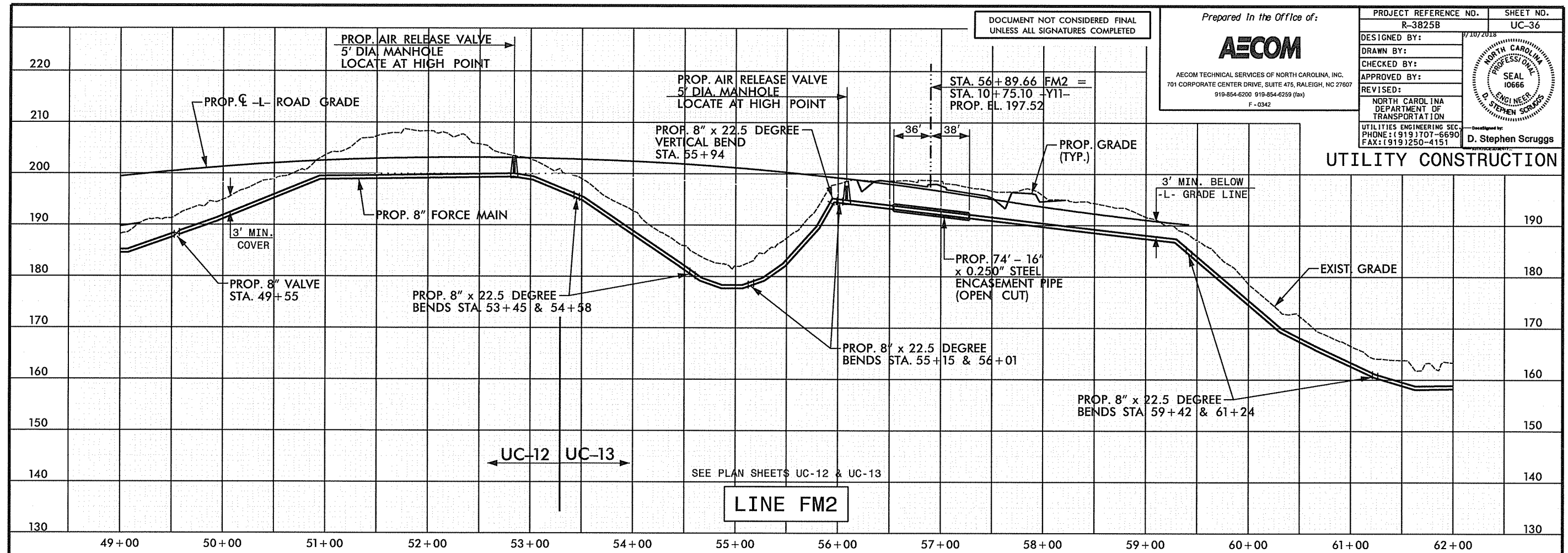
Prepared in the Office of:



AECOM TECHNICAL SERVICES OF NORTH CAROLINA, INC.
701 CORPORATE CENTER DRIVE, SUITE 475, RALEIGH, NC 27607
919-854-6200 919-854-6259 (fax)
F-0342

PROJECT REFERENCE NO. R-3825B	SHEET NO. UC-36
DESIGNED BY:	1/7/10/2018
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
Seal of Professional Engineer D. Stephen Scruggs	

UTILITY CONSTRUCTION



The estimated quantity of vertical Ductile Iron Sewer Pipe Fittings on this plan sheet is 110 pounds. The actual quantity and type of fittings will vary based on field conditions.

DATE: 9/7/2018
TIME: 3:06:06 PM
DWG: R3825B_UC_36.dwg