



**INVITATION FOR BID (IFB)**

**IFB No.: FQ15155/WJG**

**WASHINGTON METROPOLITAN AREA**

**TRANSIT AUTHORITY**

**BUS BAY, SAFETY AND ACCESS IMPROVEMENTS AT  
FRANCONIA SPRINGFIELD METRO RAIL STATION**

**DATE: APRIL 9, 2015**

**VOLUME 3**

**DRAWINGS**

# WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY



## FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS

FINAL DESIGN SUBMISSION  
CONTRACT NO. FQ15155/WJG  
MARCH 20, 2015

DWG NO. DESCRIPTION

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 J03-G-002 INDEX OF DRAWINGS  
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 J03-C-102 EXISTING CONDITIONS PLAN AREA 5 (PEDESTRIAN ROUTES)  
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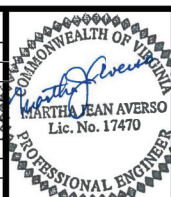
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CONTRACT NO.  
 FQ15155

DESIGNED	G.P.M.	03-20-15 DATE	REFERENCE DRAWINGS		REVISIONS			
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
DRAWN	D.B.M.	03-20-15 DATE						
CHECKED	G.P.M.	03-20-15 DATE						
APPROVED	G.P.M.	03-20-15 DATE						



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE  
 AND ENGINEERING SERVICES  
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED \_\_\_\_\_



SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS  
 INDEX OF DRAWINGS

SCALE  
 1"=10'

DRAWING NO.  
 J03-G-001

M-1273- 01

**SURVEY NOTES:**

**(BUS PLATFORM AREA)**

1. THE TOPOGRAPHICAL FEATURES AS SHOWN WERE COMPILED FROM CONVENTIONAL SURVEY METHODS. THE SURVEY WAS PERFORMED BY BOWMAN CONSULTING, LTD. IN JUNE, 2014.
2. THE PROPERTY DELINEATED IS LOCATED ON FAIRFAX COUNTY TAX ASSESSMENT PARCEL 0902-01-0061B AND IS ZONED I-4.
3. THE PROPERTY IS NOW IN THE NAME OF WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY AND IS RECORDED IN DEED BOOK 5990 AT PAGE 344 AMONG THE LAND RECORDS OF FAIRFAX COUNTY, VIRGINIA.
4. THERE IS NO BOUNDARY INFORMATION SHOWN ON THIS SURVEY.
5. THE HORIZONTAL AND VERTICAL DATUM AS REFERENCED WAS ESTABLISHED BY A FIELD SURVEY. THE HORIZONTAL DATUM IS REFERENCED TO METRO PROJECT GRID AND THE VERTICAL DATUM IS REFERENCED TO NGVD 29. THESE DATUMS ARE BASED UPON MONUMENT RECORD SHEETS FOR WMATA MONUMENTS SF101, SF103 AND SF104, WHICH WERE PROVIDED TO BOWMAN CONSULTING BY WMATA.
7. THE PROPERTY AS SHOWN IS SUBJECT TO ALL COVENANTS AND RESTRICTIONS OF RECORD AND THOSE RECORDED HERewith. BOWMAN CONSULTING GROUP, LTD. HAS NOT BEEN PROVIDED A TITLE REPORT AND THEREFORE THIS PLAT DOES NOT NECESSARILY INDICATE THE EXISTENCE OF ANY COVENANTS AND RESTRICTIONS ON THE PROPERTY.
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**SURVEY NOTES:**

**(BIKE PATH SIDEWALK AREAS)**

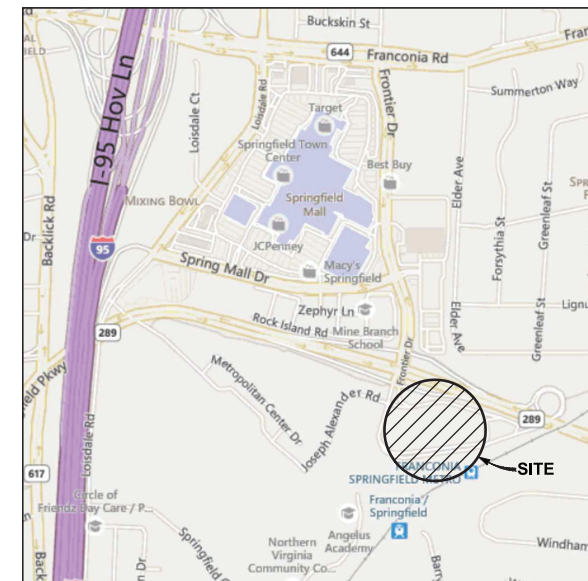
THE EXISTING CONDITIONS SHOWN WERE TAKEN FROM AN AERIAL PHOTOGRAPH. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND ADJUST THE LOCATIONS OF IMPROVEMENTS TO MINIMIZE IMPACT TO SIGNIFICANT SITE FEATURES AND TO UTILIZE EXISTING GRADE TO FACILITATE ACCESSIBLE ROUTES. THE CONTRACTOR SHALL CONTACT WMATA ENGINEER FOR APPROVAL OF ADJUSTED IMPROVEMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

**EXISTING FEATURES LEGEND:**

	ACCESSIBLE RAMP	---184---	INTERVAL CONTOUR
	CROSSWALK	---185---	INDEX CONTOUR
	DECIDUOUS TREE	---WTR---	WATER LINE
	CONIFEROUS TREE	---COMM---	UNDERGROUND TELECOMMUNICATIONS LINE
	PLATFORM TREE W/ GRATE	---UGE---	UNDERGROUND ELECTRIC CONDUIT
	SHRUBS	===	UNDERGROUND ELECTRIC DUCTBANK
	LIGHT POLE	---SAN---	SANITARY SEWER PIPE
	ELECTRIC METER	===	SANITARY SEWER PIPE
	ELECTRIC MANHOLE	===	STORM DRAIN PIPE
	SANITARY SEWER MANHOLE	===	STORM DRAIN PIPE WITH HEADWALL
	CLEANOUT	---X---	FENCE
	WATER VALVE		
	WATER MANHOLE		
	FIRE HYDRANT		
	WATER METER		
	PARKING METER		
	CATCH BASIN		
	SIGN		
	BOLLARD		
	OVERHEAD SIGN		
	BOREHOLE		
	METRO CONTROL MONUMENT		

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL COORDINATE THE PHASING OF THE BUS RAMP AND THE EMERGENCY ACCESS DEMOLITION AND CONSTRUCTION TO ENSURE THAT EMERGENCY ACCESS IS MAINTAINED AT ALL TIMES TO THE TRACKS. THE CONTRACTOR SHALL PREPARE AN EMERGENCY ACCESS DEMOLITION AND CONSTRUCTION PLAN FOR APPROVAL BY WMATA ENGINEER PRIOR TO COMMENCING DEMOLITION.
2. ALL WORK SHALL ALSO BE IN ACCORDANCE WITH FINAL APPROVED CONSTRUCTION DOCUMENTS AND WITH CURRENT WMATA ADJACENT CONSTRUCTION PROJECT MANUAL, WMATA DESIGN CRITERIA, STANDARD AND DESIGN DRAWINGS AND STANDARD SPECIFICATIONS.
3. THESE PLANS REPRESENT THE OVERALL SITEWORK IMPROVEMENTS REQUIRED FOR PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST AND COMPLETE ALL WORK TO THE SATISFACTION OF THE OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION; AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO REPRESENT, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITEWORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.
4. THE CONTRACTOR SHALL ACCEPT THE SITE AS IS. THE CONTRACTOR SHALL ASSESS CONDITIONS, AND THE KIND, QUANTITY AND QUALITY OF WORK REQUIRED. THE CONTRACTOR SHALL MAKE ADDITIONAL TOPOGRAPHIC SURVEYS HE DEEMS NECESSARY, PROVIDED THEY ARE COORDINATED WITH THE OWNER. ANY CONDITIONS DETERMINED BY THE CONTRACTOR THAT DIFFER FROM THE INFORMATION SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE START OF WORK.
5. THE CONTRACTOR SHALL INSPECT THE SITE AND BRING TO THE AUTHORITY'S REPRESENTATIVE'S (AR) ATTENTION ANY EXISTING DAMAGE TO THE SIDEWALKS AND APPURTENANCES PRIOR TO COMMENCING WORK. ANY DAMAGE OBSERVED SUBSEQUENT TO COMMENCEMENT OF CONSTRUCTION MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE AR, AND WILL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT THEIR SOLE EXPENSE.
6. INFORMATION RELATED TO ELEVATIONS AND PROPOSED UTILITIES (SUCH AS ROADWAY GRADES, INVERT ELEVATIONS, RIM ELEVATIONS, GRATE ELEVATIONS, BUILDING FINISHED FLOOR ELEVATIONS, ETC.) MAY BE FOUND IN MORE THAN ONE LOCATION IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL SUFFICIENTLY REVIEW ALL PLANS, PROFILES AND ANY OTHER INFORMATION IN THE CONTRACT DOCUMENTS FOR CONSISTENCY PRIOR TO CONSTRUCTION. ANY INCONSISTENCIES OR DISCREPANCIES THAT ARE FOUND BY THE CONTRACTOR OR HIS ASSIGNS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING, IN THE FORMAT OF AN RFI PRIOR TO CONSTRUCTION.
7. CONSTRUCTION INFORMATION AND REQUIREMENTS ARE LOCATED IN NUMEROUS PROJECT DOCUMENTS SUCH AS DRAWINGS, SPECIFICATIONS, DETAILS, NOTES, ORDINANCES, CODES, PERMITS, STANDARDS, GUIDELINES AND MANUFACTURER DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING COPIES AND UNDERSTANDING ALL PROJECT DOCUMENTS AND IMPLEMENTING THE PROJECT REQUIREMENTS AS SPECIFIED IN THE PROJECT DOCUMENTS. MOST STRINGENT CRITERIA SHALL APPLY.
8. UNDERGROUND UTILITIES AND INFRASTRUCTURE ARE LOCATED THROUGHOUT THE SITE AND MAY BE PRESENT IN AREAS OF PROPOSED WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING AND LOCATING UNDERGROUND UTILITIES AND INFRASTRUCTURE PRIOR TO WORK. IF CONFLICTS WITH PROPOSED WORK ARE OBSERVED, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY FOR REVIEW. CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING ADJACENT TO EXISTING UNDERGROUND UTILITIES AND INFRASTRUCTURE, INCLUDING BUT NOT LIMITED TO THE USE OF HAND TOOLS AND SOFT DIG TECHNIQUES. DAMAGED UTILITIES AND INFRASTRUCTURE SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
9. CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH MANUFACTURER GUIDELINES AND THE PROJECT DOCUMENTS.
10. PROTECT AND MAINTAIN ACCESS TO FIRE HYDRANTS AT ALL TIMES.
11. ALL SIGNS ARE TO REMAIN OR WILL BE TEMPORARILY STORED AND RETURNED IN-KIND.
12. FOR NEW SIDEWALK CONSTRUCTION, PROVIDE EXPANSION JOINTS WHERE SIDEWALK ABUTS EXISTING/PROPOSED STRUCTURES AND AT 30FT MAX SPACING. PROVIDE CONTROL JOINTS AT 5 FT MAX SPACING. MATCH EXISTING SCORE PATTERNS WHERE PRACTICAL.
13. THE SITE IS AN OPERATING METRO STATION. THE CONTRACTOR SHALL COORDINATE THE WORK SO AS TO MINIMIZE ADVERSE IMPACTS TO PUBLIC, BUS OPERATIONS, AND METRO OPERATIONS PRIOR TO THE START OF ANY DEMOLITION.
14. ALL FACILITIES SHALL CONFORM TO THE CURRENT ADA STANDARDS FOR ACCESSIBLE DESIGN AT WWW.ADA.GOV.



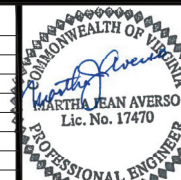
**VICINITY MAP**  
SCALE: 1"=1000'



DESIGNED	G.P.M.	03-20-15
		DATE
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REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

DEPARTMENT OF TRANSIT INFRASTRUCTURE  
AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

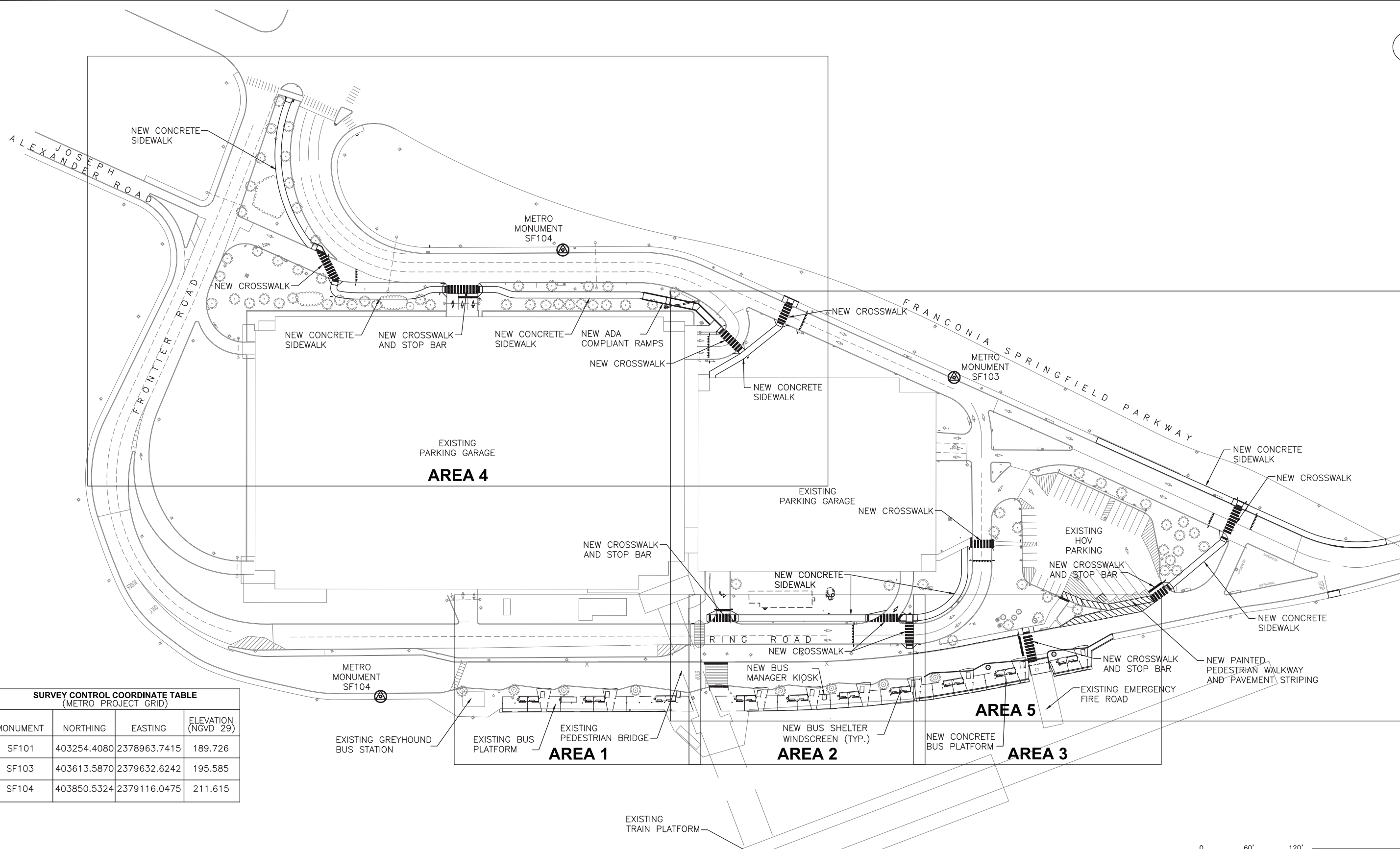
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**

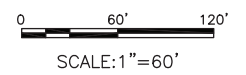
GENERAL NOTES AND LEGENDS

CONTRACT NO. **FQ15155**

SCALE \_\_\_\_\_ DRAWING NO. **J03-G-002** M-1273- 02



SURVEY CONTROL COORDINATE TABLE (METRO PROJECT GRID)			
MONUMENT	NORTHING	EASTING	ELEVATION (NGVD 29)
SF101	403254.4080	2378963.7415	189.726
SF103	403613.5870	2379632.6242	195.585
SF104	403850.5324	2379116.0475	211.615

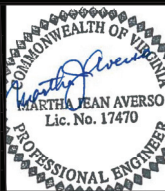


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 DEPARTMENT OF TRANSIT INFRASTRUCTURE  
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 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS**  
 OVERALL PLAN - SHEET KEY

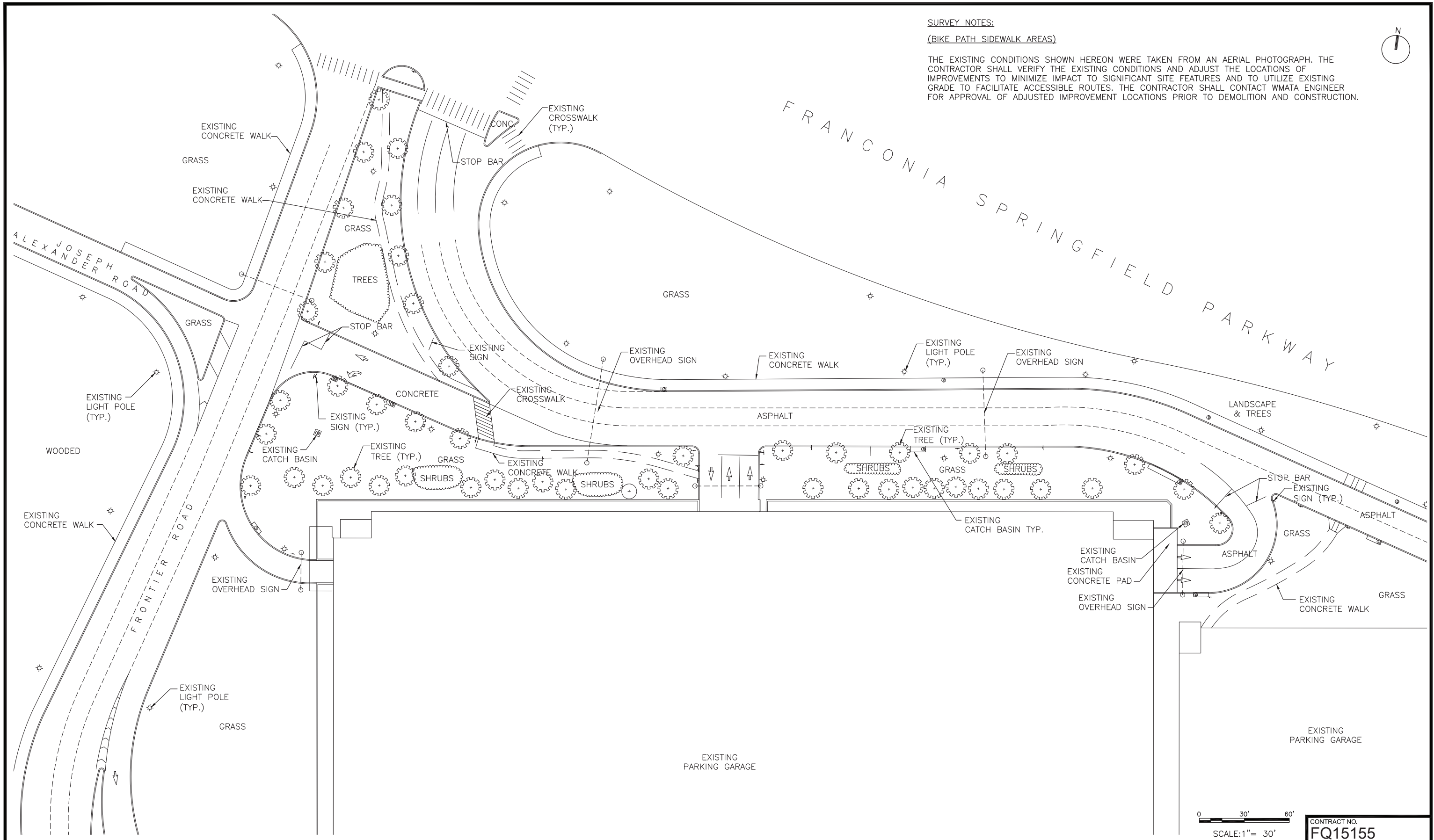
SCALE  
1"=60'

DRAWING NO.  
J03-C-100

M-1273- 03

SURVEY NOTES:  
 (BIKE PATH SIDEWALK AREAS)

THE EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM AN AERIAL PHOTOGRAPH. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND ADJUST THE LOCATIONS OF IMPROVEMENTS TO MINIMIZE IMPACT TO SIGNIFICANT SITE FEATURES AND TO UTILIZE EXISTING GRADE TO FACILITATE ACCESSIBLE ROUTES. THE CONTRACTOR SHALL CONTACT WMATA ENGINEER FOR APPROVAL OF ADJUSTED IMPROVEMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.



0 30' 60'  
 SCALE: 1" = 30'

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**FQ15155**

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 DEPARTMENT OF TRANSIT INFRASTRUCTURE  
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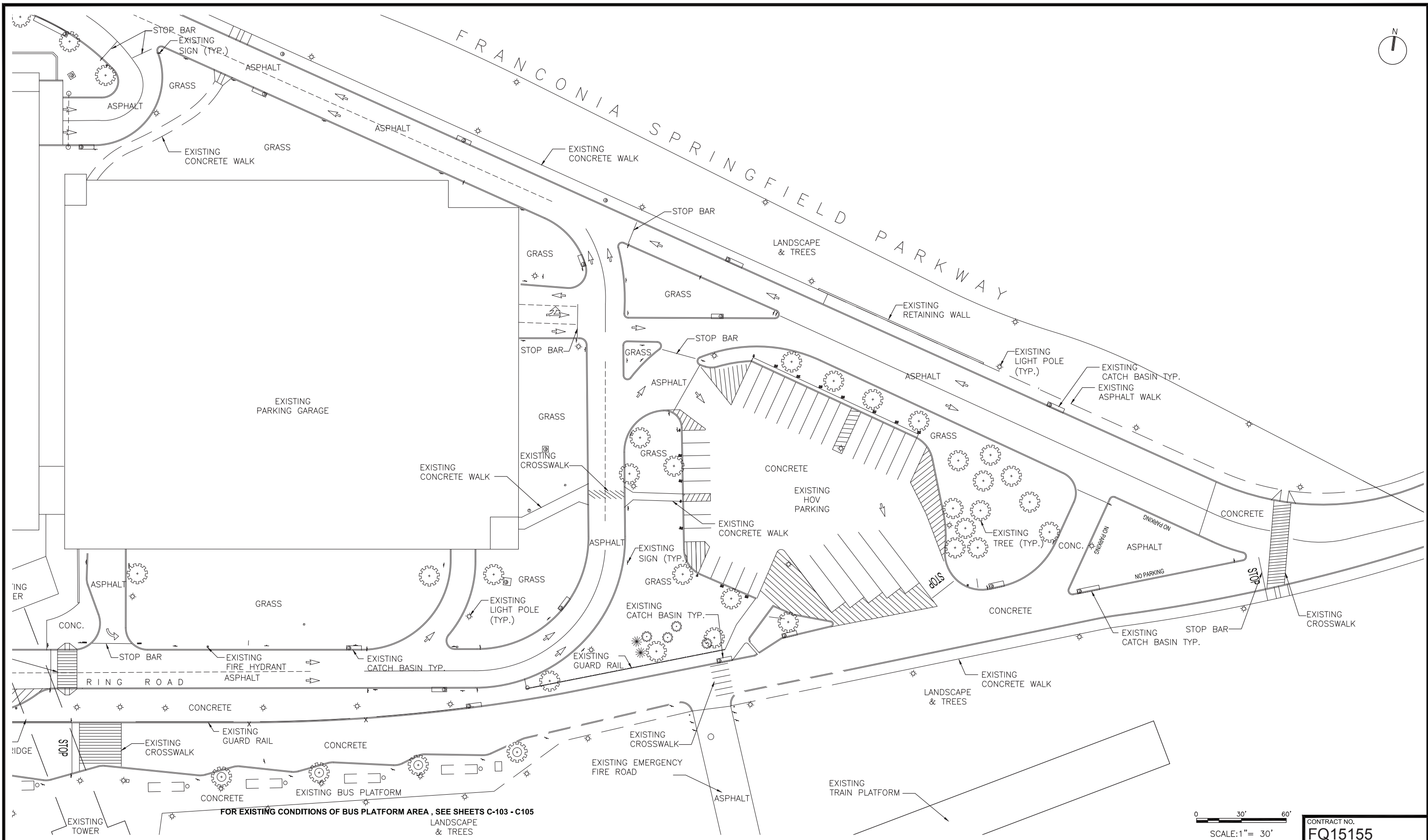
**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS**  
 EXISTING CONDITIONS PLAN  
 AREA 4

SCALE 1"=30'

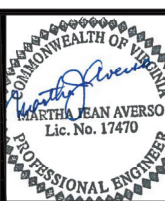
DRAWING NO. J03-C-101 M-1273-04



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DEPARTMENT OF TRANSIT INFRASTRUCTURE  
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APPROVED \_\_\_\_\_

**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

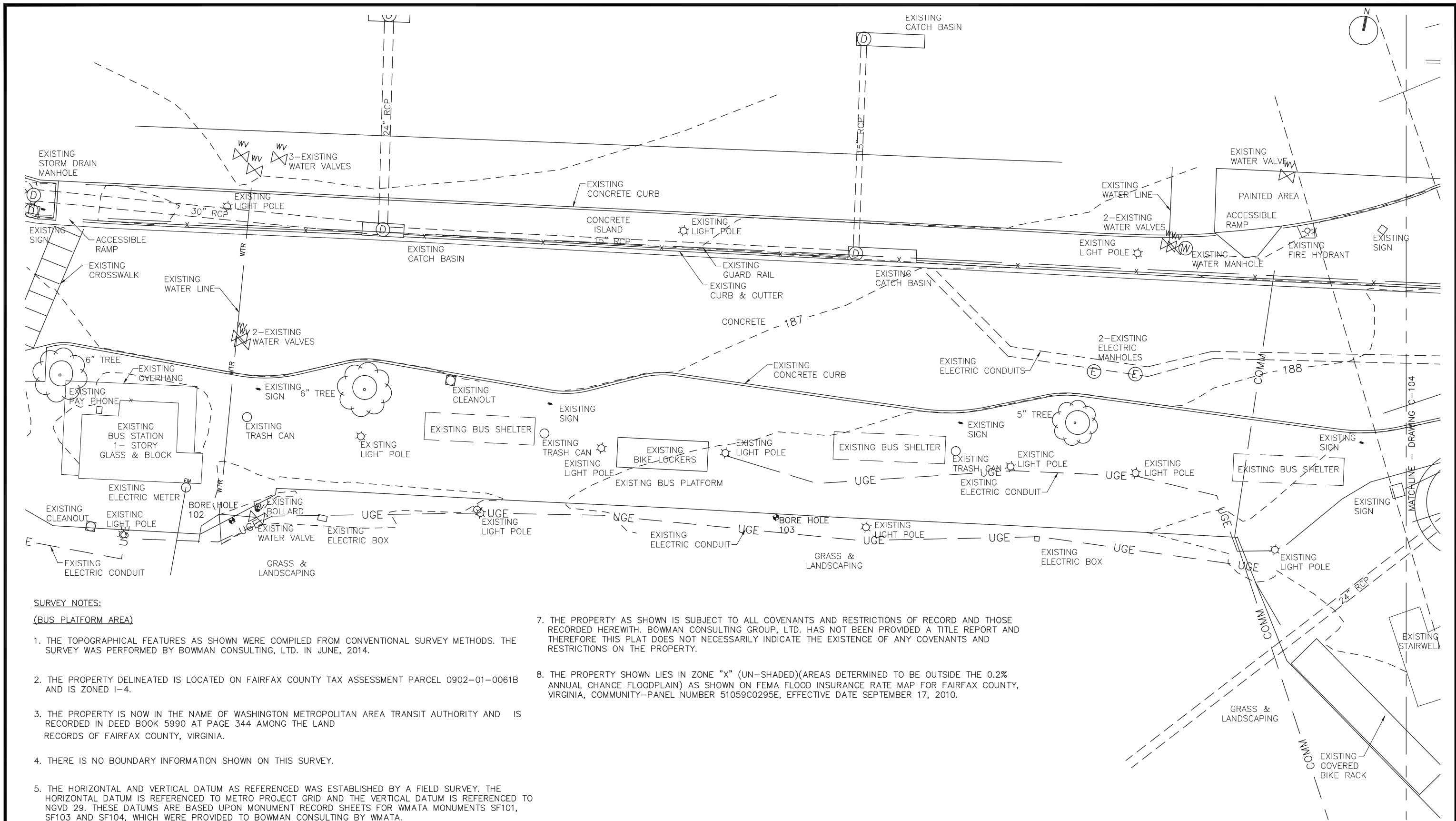
CONTRACT NO.  
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**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
EXISTING CONDITIONS PLAN  
AREA 5

SCALE  
1"=30'

DRAWING NO.  
J03-C-102

M-1273-05

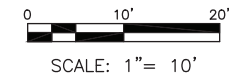


**SURVEY NOTES:**

**(BUS PLATFORM AREA)**

1. THE TOPOGRAPHICAL FEATURES AS SHOWN WERE COMPILED FROM CONVENTIONAL SURVEY METHODS. THE SURVEY WAS PERFORMED BY BOWMAN CONSULTING, LTD. IN JUNE, 2014.
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3. THE PROPERTY IS NOW IN THE NAME OF WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY AND IS RECORDED IN DEED BOOK 5990 AT PAGE 344 AMONG THE LAND RECORDS OF FAIRFAX COUNTY, VIRGINIA.
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**GFP** A Gannett Fleming/Parsons JOINT VENTURE

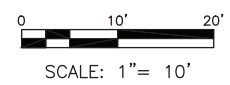
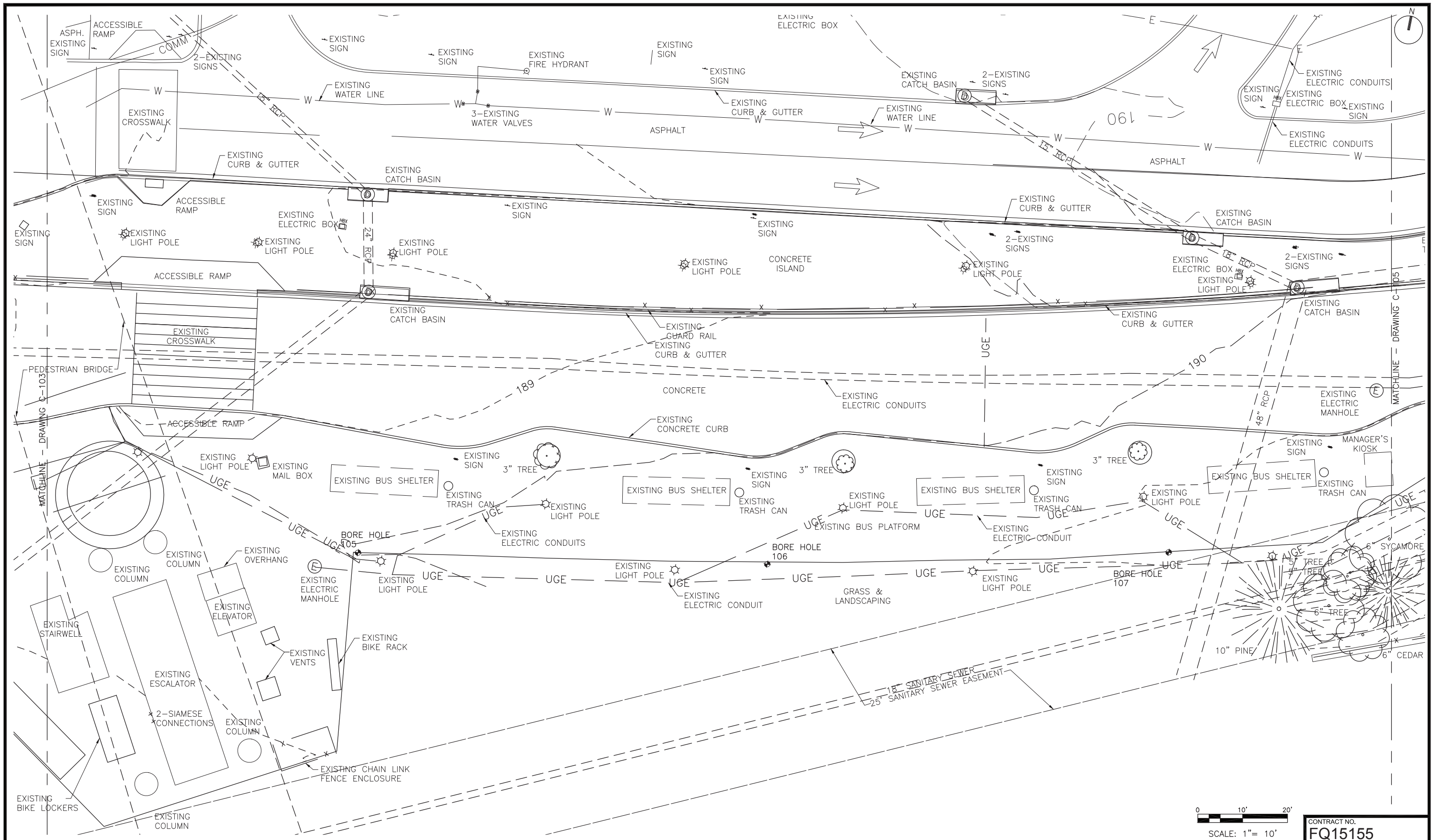
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 EXISTING CONDITIONS PLAN AREA 1

SCALE 1"=10'

DRAWING NO. J03-C-103 M-1273-06



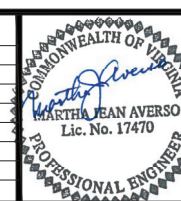


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 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
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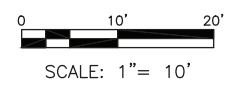
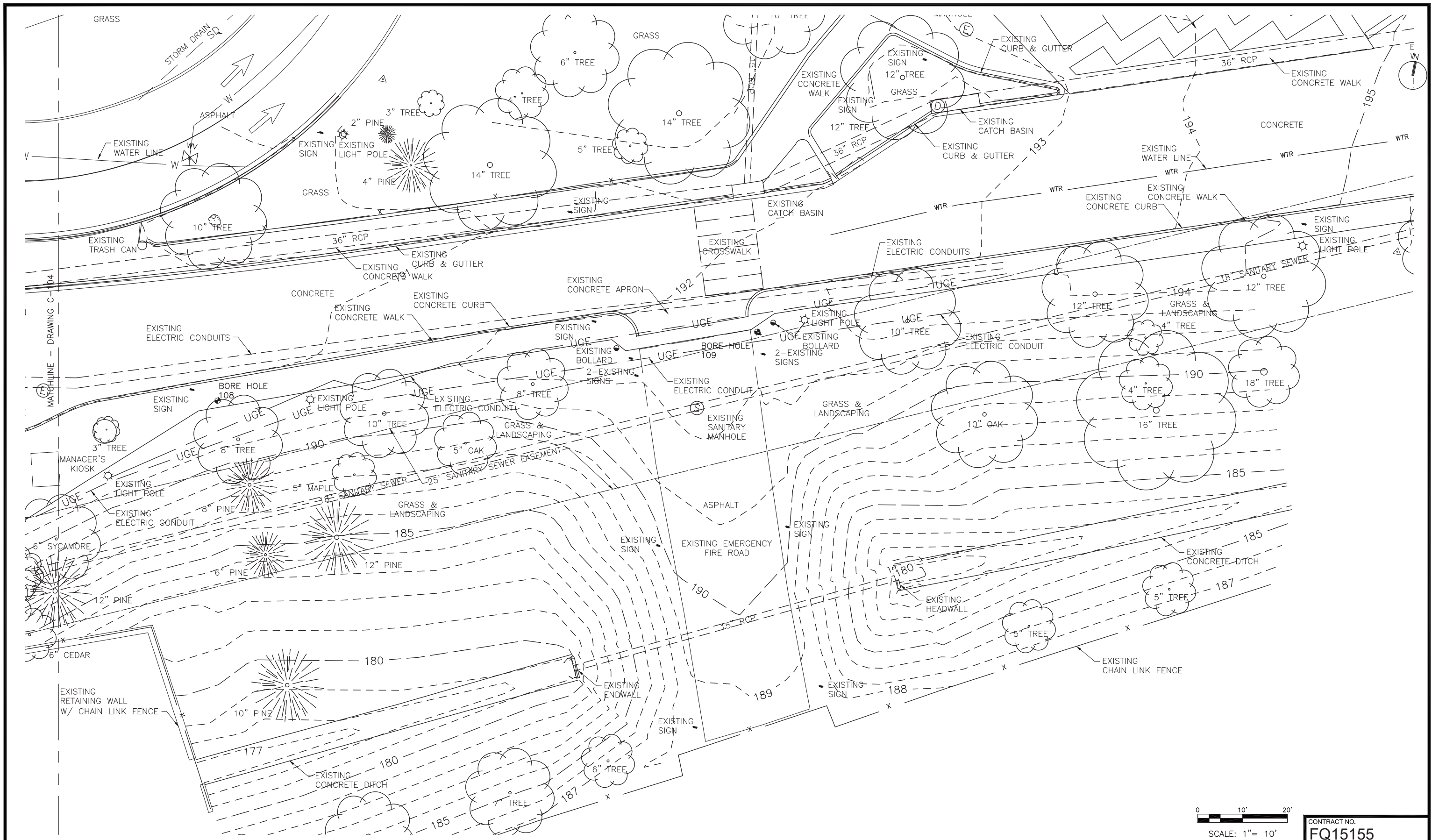
**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 EXISTING CONDITIONS PLAN  
 AREA 2

SCALE 1"=10'

DRAWING NO. J03-C-104 M-1273-07

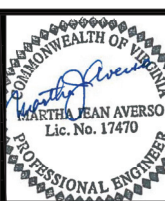


CONTRACT NO.  
**FQ15155**

DESIGNED	G.P.M.	03-20-15
DRAWN	D.B.M.	03-20-15
CHECKED	G.P.M.	03-20-15
APPROVED	G.P.M.	03-20-15

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS	
DATE	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
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**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

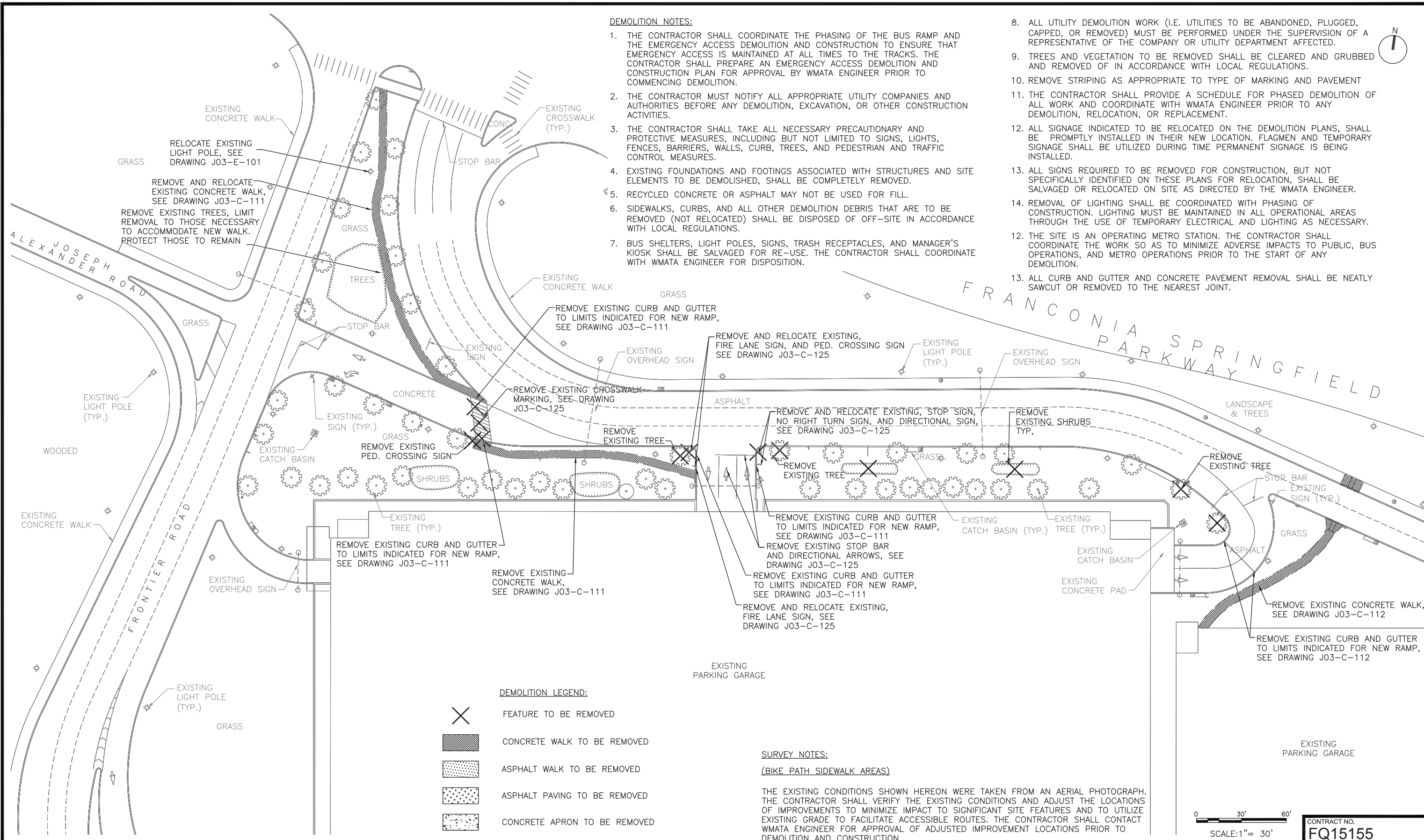
**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 EXISTING CONDITIONS PLAN  
 AREA 3

SCALE 1"=10'  
 DRAWING NO. J03-C-105  
 M-1273-08

**DEMOLITION NOTES:**

1. THE CONTRACTOR SHALL COORDINATE THE PHASING OF THE BUS RAMP AND THE EMERGENCY ACCESS DEMOLITION AND CONSTRUCTION TO ENSURE THAT EMERGENCY ACCESS IS MAINTAINED AT ALL TIMES TO THE TRACKS. THE CONTRACTOR SHALL PREPARE AN EMERGENCY ACCESS DEMOLITION AND CONSTRUCTION PLAN FOR APPROVAL BY WMATA ENGINEER PRIOR TO COMMENCING DEMOLITION.
2. THE CONTRACTOR MUST NOTIFY ALL APPROPRIATE UTILITY COMPANIES AND AUTHORITIES BEFORE ANY DEMOLITION, EXCAVATION, OR OTHER CONSTRUCTION ACTIVITIES.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY AND PROTECTIVE MEASURES, INCLUDING BUT NOT LIMITED TO SIGNS, LIGHTS, FENCES, BARRIERS, WALLS, CURB, TREES, AND PEDESTRIAN AND TRAFFIC CONTROL MEASURES.
4. EXISTING FOUNDATIONS AND FOOTINGS ASSOCIATED WITH STRUCTURES AND SITE ELEMENTS TO BE DEMOLISHED, SHALL BE COMPLETELY REMOVED.
5. RECYCLED CONCRETE OR ASPHALT MAY NOT BE USED FOR FILL.
6. SIDEWALKS, CURBS, AND ALL OTHER DEMOLITION DEBRIS THAT ARE TO BE REMOVED (NOT RELOCATED) SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH LOCAL REGULATIONS.
7. BUS SHELTERS, LIGHT POLES, SIGNS, TRASH RECEPTACLES, AND MANAGER'S KIOSK SHALL BE SALVAGED FOR RE-USE. THE CONTRACTOR SHALL COORDINATE WITH WMATA ENGINEER FOR DISPOSITION.

8. ALL UTILITY DEMOLITION WORK (I.E. UTILITIES TO BE ABANDONED, PLUGGED, CAPPED, OR REMOVED) MUST BE PERFORMED UNDER THE SUPERVISION OF A REPRESENTATIVE OF THE COMPANY OR UTILITY DEPARTMENT AFFECTED.
9. TREES AND VEGETATION TO BE REMOVED SHALL BE CLEARED AND GRUBBED AND REMOVED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
10. REMOVE STRIPING AS APPROPRIATE TO TYPE OF MARKING AND PAVEMENT
11. THE CONTRACTOR SHALL PROVIDE A SCHEDULE FOR PHASED DEMOLITION OF ALL WORK AND COORDINATE WITH WMATA ENGINEER PRIOR TO ANY DEMOLITION, RELOCATION, OR REPLACEMENT.
12. ALL SIGNAGE INDICATED TO BE RELOCATED ON THE DEMOLITION PLANS, SHALL BE PROMPTLY INSTALLED IN THEIR NEW LOCATION. FLAGMEN AND TEMPORARY SIGNAGE SHALL BE UTILIZED DURING TIME PERMANENT SIGNAGE IS BEING INSTALLED.
13. ALL SIGNS REQUIRED TO BE REMOVED FOR CONSTRUCTION, BUT NOT SPECIFICALLY IDENTIFIED ON THESE PLANS FOR RELOCATION, SHALL BE SALVAGED OR RELOCATED ON SITE AS DIRECTED BY THE WMATA ENGINEER.
14. REMOVAL OF LIGHTING SHALL BE COORDINATED WITH PHASING OF CONSTRUCTION. LIGHTING MUST BE MAINTAINED IN ALL OPERATIONAL AREAS THROUGH THE USE OF TEMPORARY ELECTRICAL AND LIGHTING AS NECESSARY.
12. THE SITE IS AN OPERATING METRO STATION. THE CONTRACTOR SHALL COORDINATE THE WORK SO AS TO MINIMIZE ADVERSE IMPACTS TO PUBLIC, BUS OPERATIONS, AND METRO OPERATIONS PRIOR TO THE START OF ANY DEMOLITION.
13. ALL CURB AND GUTTER AND CONCRETE PAVEMENT REMOVAL SHALL BE NEATLY SAWCUT OR REMOVED TO THE NEAREST JOINT.



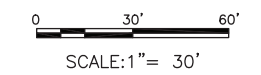
**DEMOLITION LEGEND:**

- FEATURE TO BE REMOVED
- CONCRETE WALK TO BE REMOVED
- ASPHALT WALK TO BE REMOVED
- ASPHALT PAVING TO BE REMOVED
- CONCRETE APRON TO BE REMOVED

**SURVEY NOTES:**

(BIKE PATH SIDEWALK AREAS)

THE EXISTING CONDITIONS SHOWN HEREON WERE TAKEN FROM AN AERIAL PHOTOGRAPH. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND ADJUST THE LOCATIONS OF IMPROVEMENTS TO MINIMIZE IMPACT TO SIGNIFICANT SITE FEATURES AND TO UTILIZE EXISTING GRADE TO FACILITATE ACCESSIBLE ROUTES. THE CONTRACTOR SHALL CONTACT WMATA ENGINEER FOR APPROVAL OF ADJUSTED IMPROVEMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

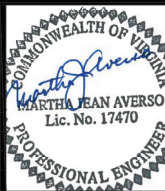


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**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

DEPARTMENT OF TRANSIT INFRASTRUCTURE  
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OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

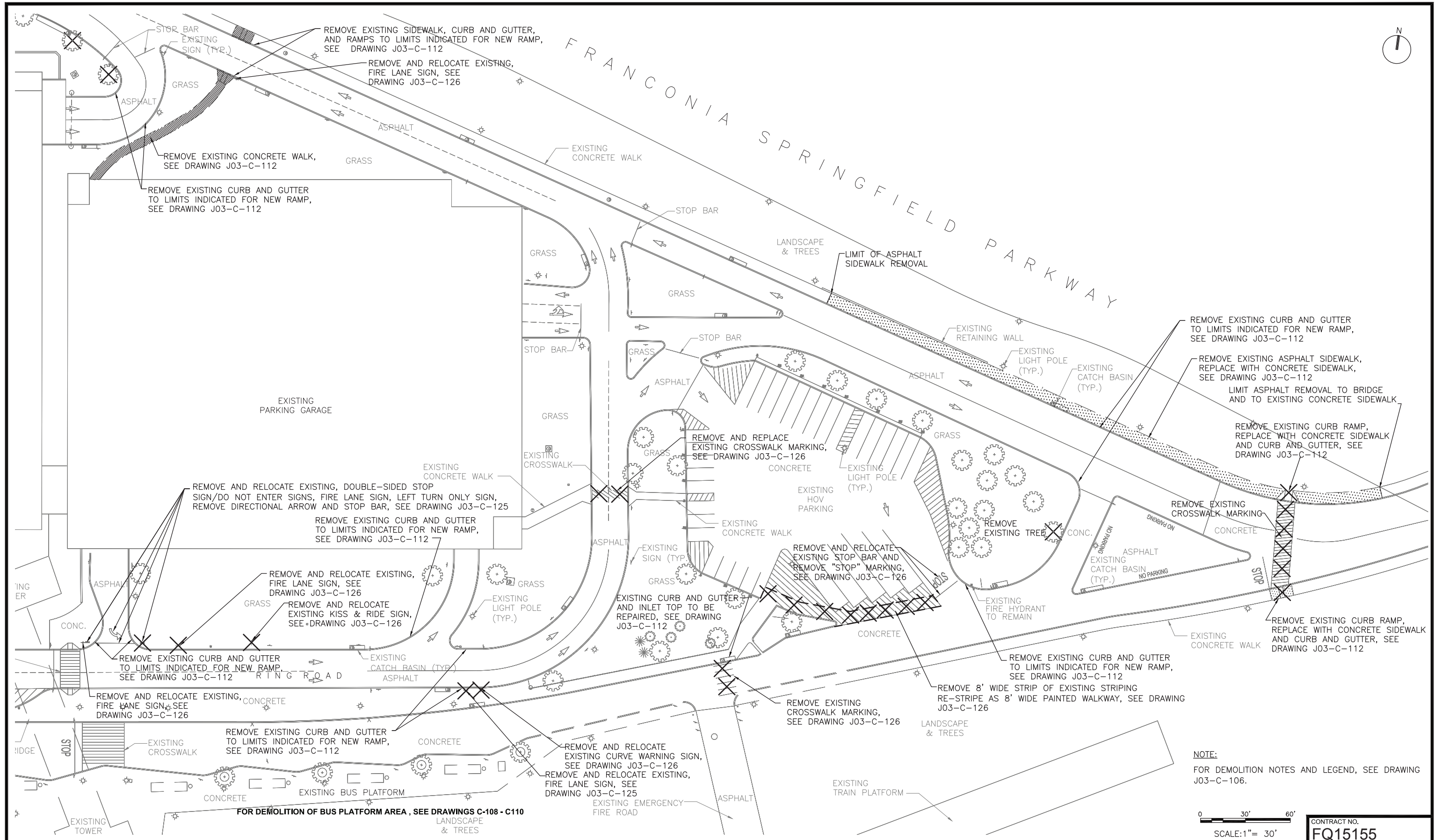
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**

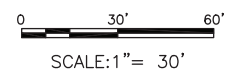
DEMOLITION PLAN  
AREA 4

SCALE 1"=30'

DRAWING NO. J03-C-106 M-1273-09



NOTE:  
FOR DEMOLITION NOTES AND LEGEND, SEE DRAWING J03-C-106.

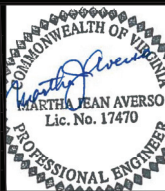


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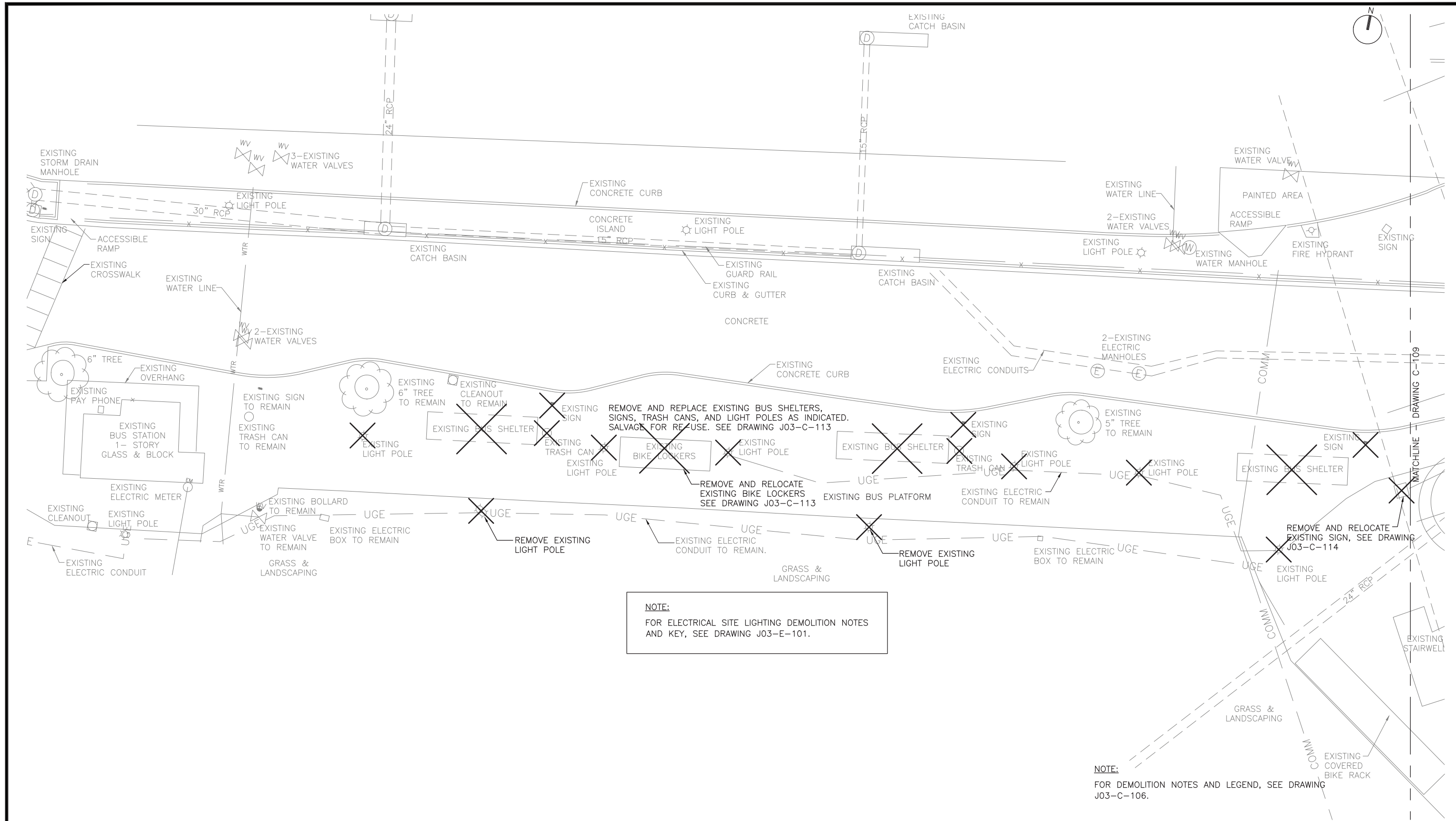
**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 DEMOLITION PLAN  
 AREA 5

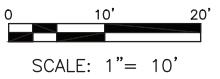
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DRAWING NO. J03-C-107 M-1273-10



**NOTE:**  
 FOR ELECTRICAL SITE LIGHTING DEMOLITION NOTES  
 AND KEY, SEE DRAWING J03-E-101.

**NOTE:**  
 FOR DEMOLITION NOTES AND LEGEND, SEE DRAWING  
 J03-C-106.

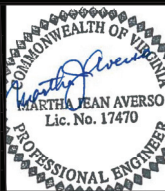


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**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

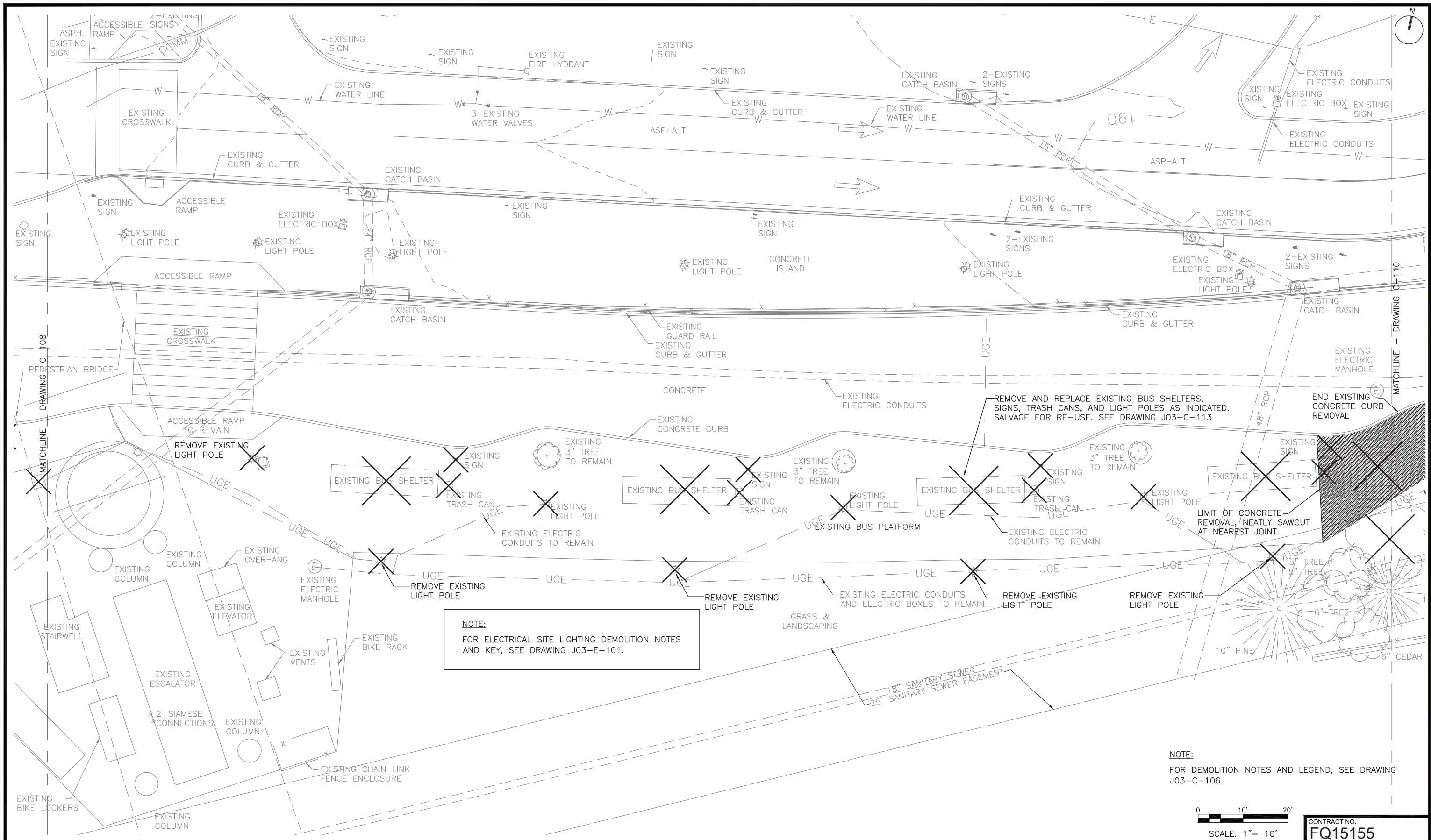
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS**  
 DEMOLITION PLAN  
 AREA 1

SCALE  
 1"=10'

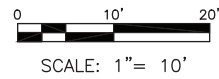
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**J03-C-108**

M-1273- 11



**NOTE:**  
FOR ELECTRICAL SITE LIGHTING DEMOLITION NOTES AND KEY, SEE DRAWING J03-E-101.

**NOTE:**  
FOR DEMOLITION NOTES AND LEGEND, SEE DRAWING J03-C-106.

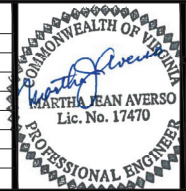


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**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
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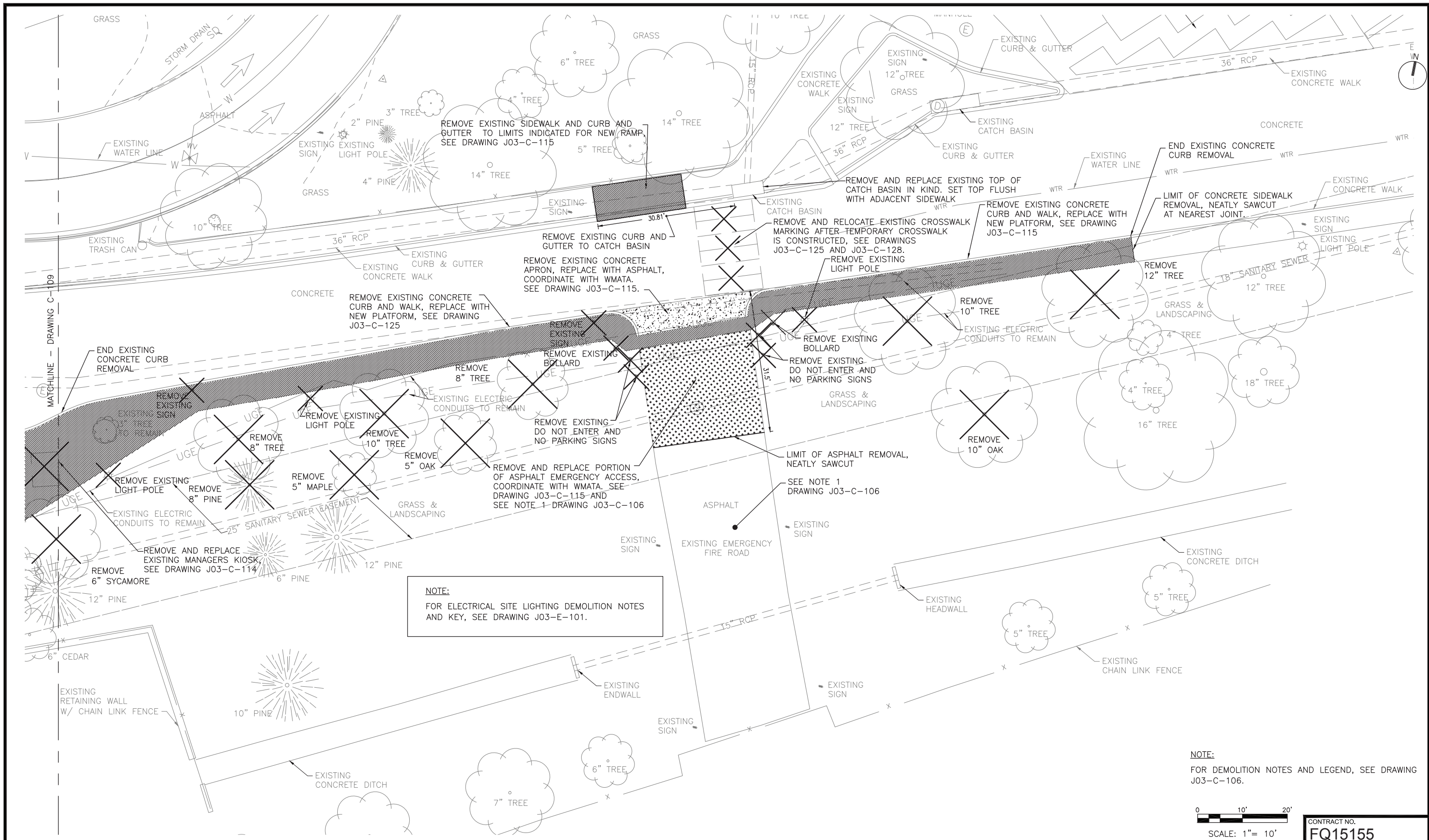
**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 DEMOLITION PLAN  
 AREA 2

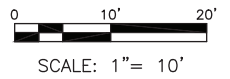
SCALE 1"=10'

DRAWING NO. J03-C-109 M-1273-12



**NOTE:**  
FOR ELECTRICAL SITE LIGHTING DEMOLITION NOTES AND KEY, SEE DRAWING J03-E-101.

**NOTE:**  
FOR DEMOLITION NOTES AND LEGEND, SEE DRAWING J03-C-106.

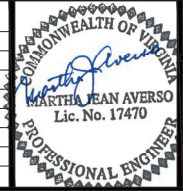


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 APPROVED \_\_\_\_\_

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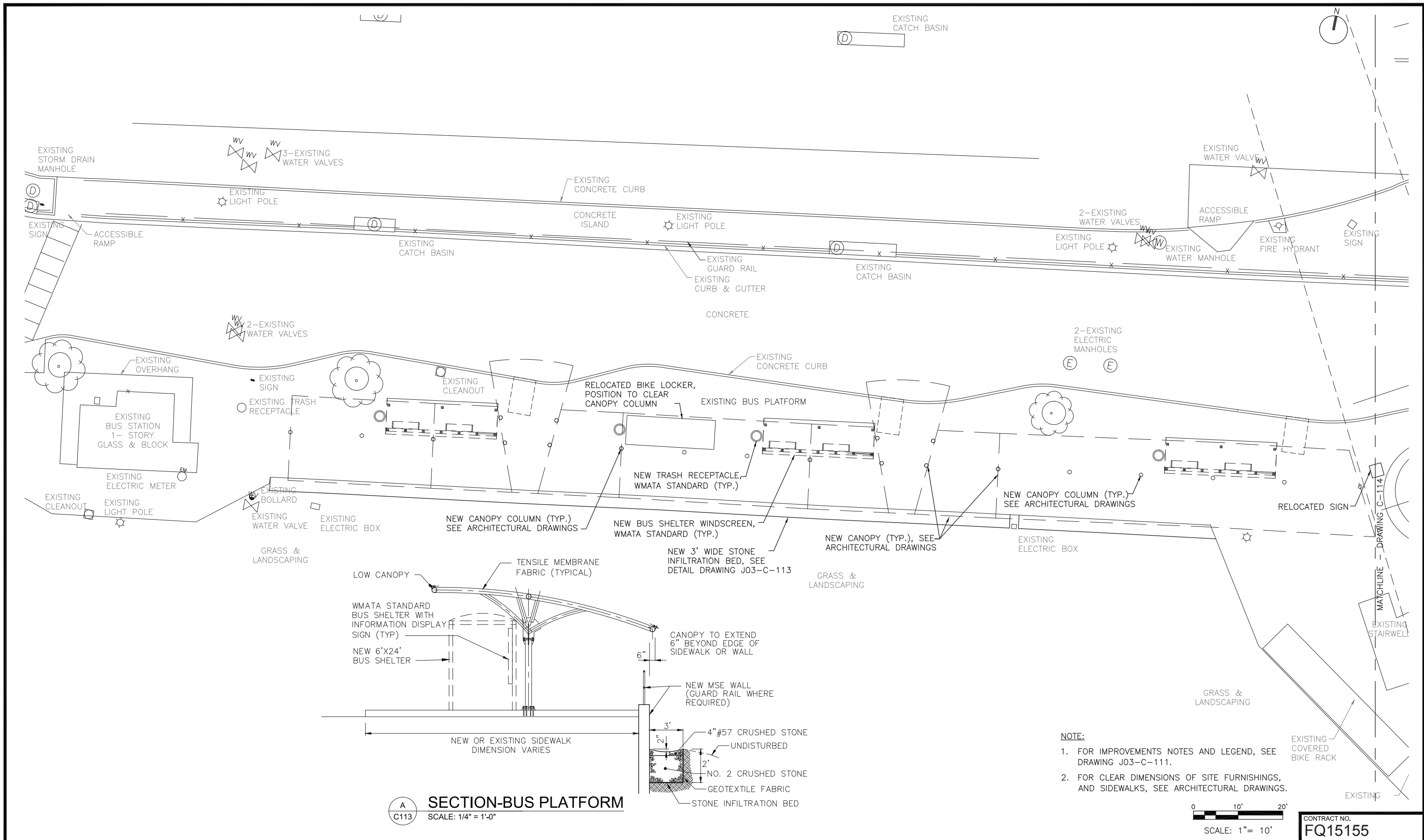
**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 DEMOLITION PLAN  
 AREA 3

SCALE 1"=10'  
 DRAWING NO. J03-C-110  
 M-1273- 13









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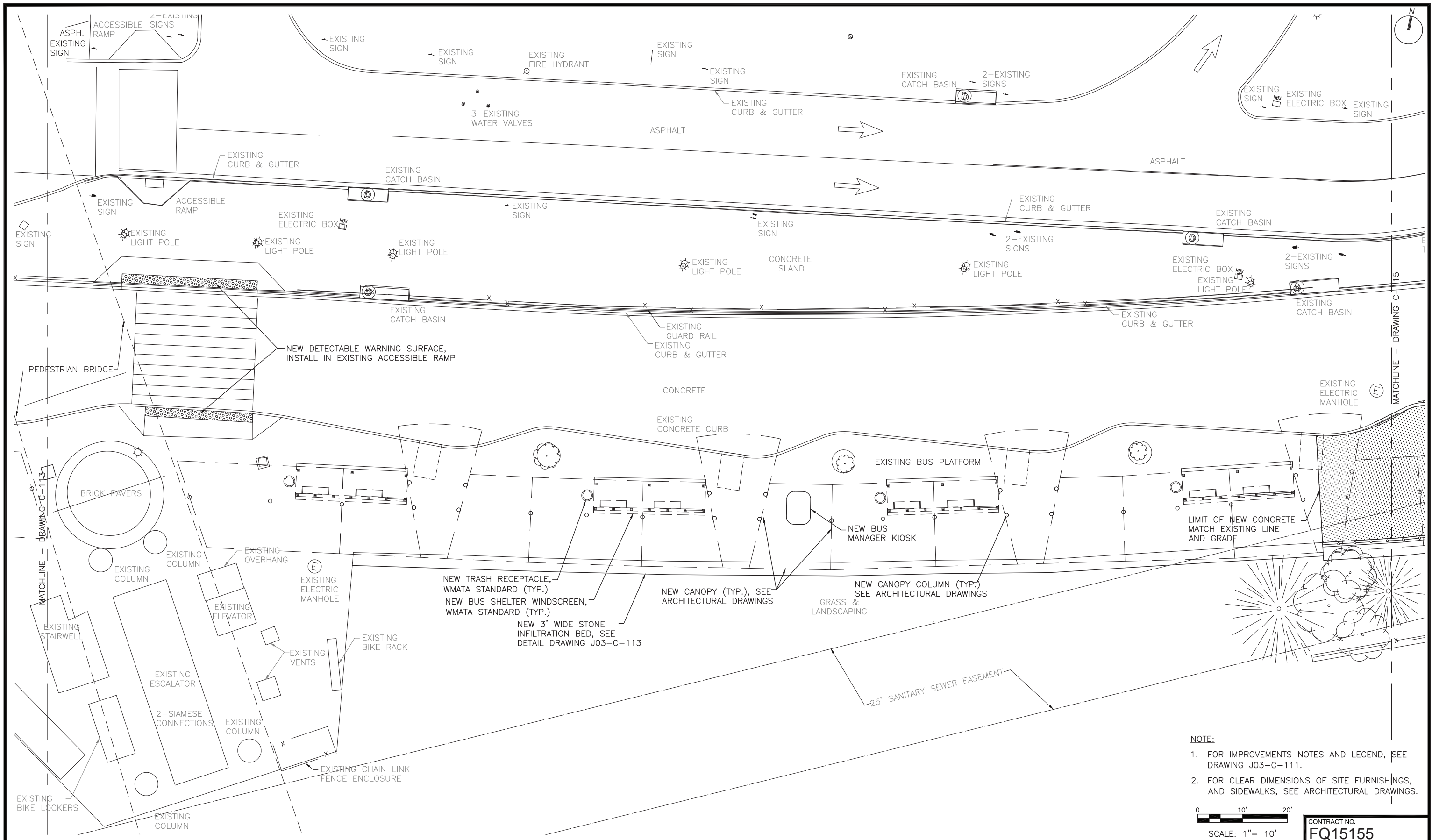
**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS LAYOUT PLAN AREA 1**

SCALE 1"=10'

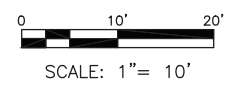
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CONTRACT NO. FQ15155

M-1273- 16

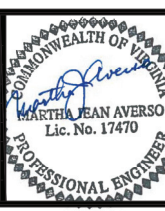


- NOTE:**
- FOR IMPROVEMENTS NOTES AND LEGEND, SEE DRAWING J03-C-111.
  - FOR CLEAR DIMENSIONS OF SITE FURNISHINGS, AND SIDEWALKS, SEE ARCHITECTURAL DRAWINGS.



CONTRACT NO.  
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DESIGNED			REFERENCE DRAWINGS			REVISIONS		
DATE	BY	DESCRIPTION	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
03-20-15	G.P.M.							
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03-20-15	G.P.M.							



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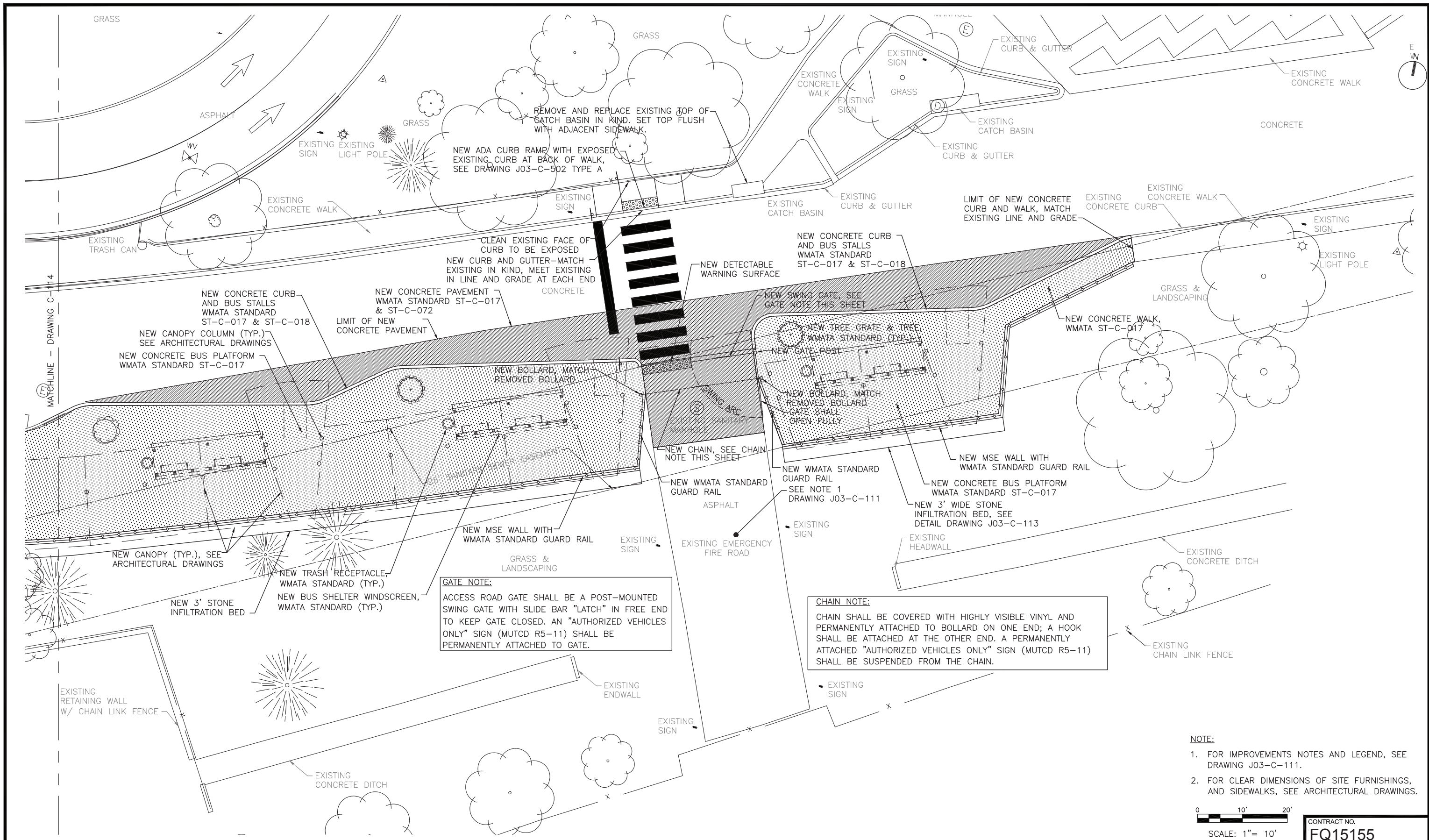
**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS LAYOUT PLAN AREA 2**

SCALE 1"=10'

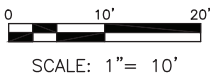
DRAWING NO. J03-C-114 M-1273- 17



**GATE NOTE:**  
 ACCESS ROAD GATE SHALL BE A POST-MOUNTED SWING GATE WITH SLIDE BAR "LATCH" IN FREE END TO KEEP GATE CLOSED. AN "AUTHORIZED VEHICLES ONLY" SIGN (MUTCD R5-11) SHALL BE PERMANENTLY ATTACHED TO GATE.

**CHAIN NOTE:**  
 CHAIN SHALL BE COVERED WITH HIGHLY VISIBLE VINYL AND PERMANENTLY ATTACHED TO BOLLARD ON ONE END; A HOOK SHALL BE ATTACHED AT THE OTHER END. A PERMANENTLY ATTACHED "AUTHORIZED VEHICLES ONLY" SIGN (MUTCD R5-11) SHALL BE SUSPENDED FROM THE CHAIN.

- NOTE:**
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  - FOR CLEAR DIMENSIONS OF SITE FURNISHINGS, AND SIDEWALKS, SEE ARCHITECTURAL DRAWINGS.

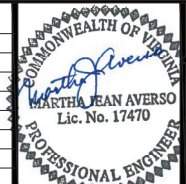


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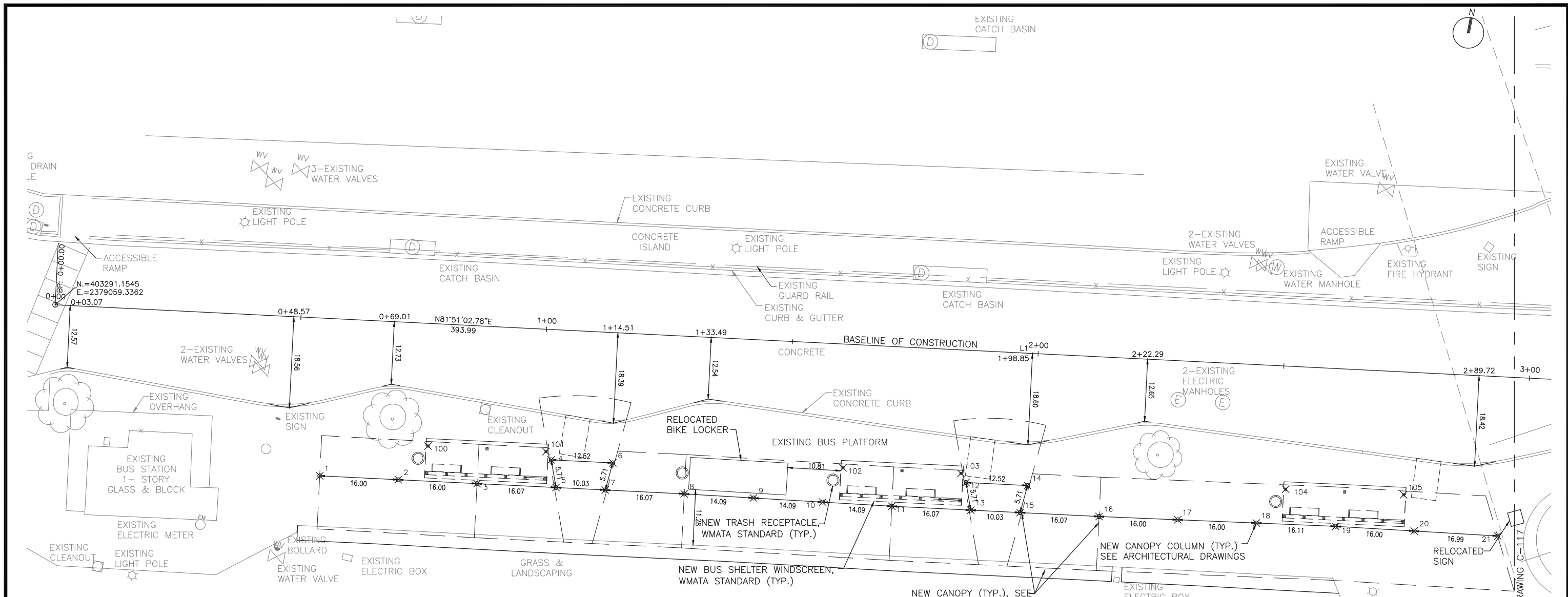
**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 LAYOUT PLAN  
 AREA 3

SCALE 1"=10'

DRAWING NO. J03-C-115 M-1273- 18



Canopy Column Coordinates		
Number	North	East
1	403267.288	2379118.7447
2	403269.559	2379134.5826
3	403271.830	2379150.4206
4	403279.446	2379164.3032
5	403274.111	2379166.3257
6	403281.223	2379176.6972
7	403275.535	2379176.2553
8	403277.816	2379192.1604
9	403279.678	2379206.1218
10	403281.540	2379220.0833
11	403283.402	2379234.0448
12	403291.017	2379247.9273
13	403285.682	2379249.9498
14	403292.794	2379260.3214
15	403287.106	2379259.8795
16	403289.387	2379275.7845
17	403291.788	2379291.6039
18	403294.189	2379307.4233

Canopy Column Coordinates		
Number	North	East
19	403296.596	2379323.3550
20	403298.709	2379339.2148
21	403300.953	2379356.0563
22	403305.766	2379390.9409
23	403308.374	2379408.7205
24	403310.696	2379424.5510
25	403318.357	2379438.4088
26	403313.029	2379440.4486
27	403320.174	2379450.7971
28	403314.485	2379450.3736
29	403316.817	2379466.2711
30	403318.777	2379478.5752
31	403320.737	2379490.8792
32	403328.775	2379504.5218
33	403323.505	2379506.7069
34	403330.931	2379516.8556
35	403325.232	2379516.5882
36	403327.999	2379532.4159

Canopy Column Coordinates		
Number	North	East
37	403330.554	2379543.6141
38	403333.109	2379554.8124
39	403341.776	2379568.0634
40	403336.614	2379570.4930
41	403344.508	2379580.2825
42	403338.803	2379580.2825
43	403342.309	2379595.9631
44	403345.403	2379607.5897
45	403348.496	2379619.2087
46	403357.672	2379632.1129
47	403352.608	2379634.7412
48	403360.876	2379644.2167
49	403355.175	2379644.4383
50	403359.288	2379659.9709
51	403363.367	2379672.3629
52	403367.446	2379684.7549
53	403377.257	2379697.1832
54	403372.331	2379700.0619

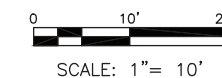
Canopy Column Coordinates		
Number	North	East
55	403381.064	2379709.1112
56	403375.381	2379709.6182
57	403380.266	2379724.9252
58	403384.719	2379736.9696
59	403389.171	2379749.0139
60	403399.211	2379761.2585
61	403394.339	2379764.2279
62	403403.238	2379773.1141
63	403397.566	2379773.7261
64	403414.244	2379804.4748
65	403409.395	2379807.4807
66	403412.520	2379816.4593
67	403415.645	2379825.4379
68	403425.776	2379837.6069
69	403420.927	2379840.6127
70	403429.892	2379849.4319
71	403424.225	2379850.0865

BASELINE OF CONSTRUCTION				
Number	Length	Radius	Line/Chord Direction	A Value
L1	393.992		N81° 51' 02.78"E	
C1	281.022	1449.000	N76° 17' 41.10"E	
L2	185.247		N70° 44' 19.41"E	

Bus Shelter Coordinates		
Number	North	East
100	403277.430	2379139.2031
101	403280.901	2379162.9508
102	403289.163	2379222.8144
103	403292.635	2379246.5621
104	403302.066	2379311.9518
105	403305.538	2379335.6994
106	403316.324	2379413.5901
107	403319.808	2379437.3359
108	403325.963	2379479.3122
109	403330.096	2379502.9536

Bus Shelter Coordinates		
Number	North	East
110	403337.966	2379543.4366
111	403343.203	2379566.8584
112	403352.896	2379607.5172
113	403359.038	2379630.7178
114	403371.245	2379672.9647
115	403378.542	2379695.8285
116	403392.659	2379737.0783
117	403400.378	2379759.8031
118	403419.138	2379813.3991
119	403427.027	2379836.0654

NOTE:  
THE DIMENSIONS SHOWN HEREON ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL USE THE COORDINATES PROVIDED ON THIS DRAWING.

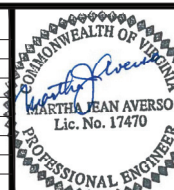


CONTRACT NO.  
**FQ15155**

DESIGNED	G.P.M.	03-20-15
DRAWN	D.B.M.	03-20-15
CHECKED	G.P.M.	03-20-15
APPROVED	G.P.M.	03-20-15

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

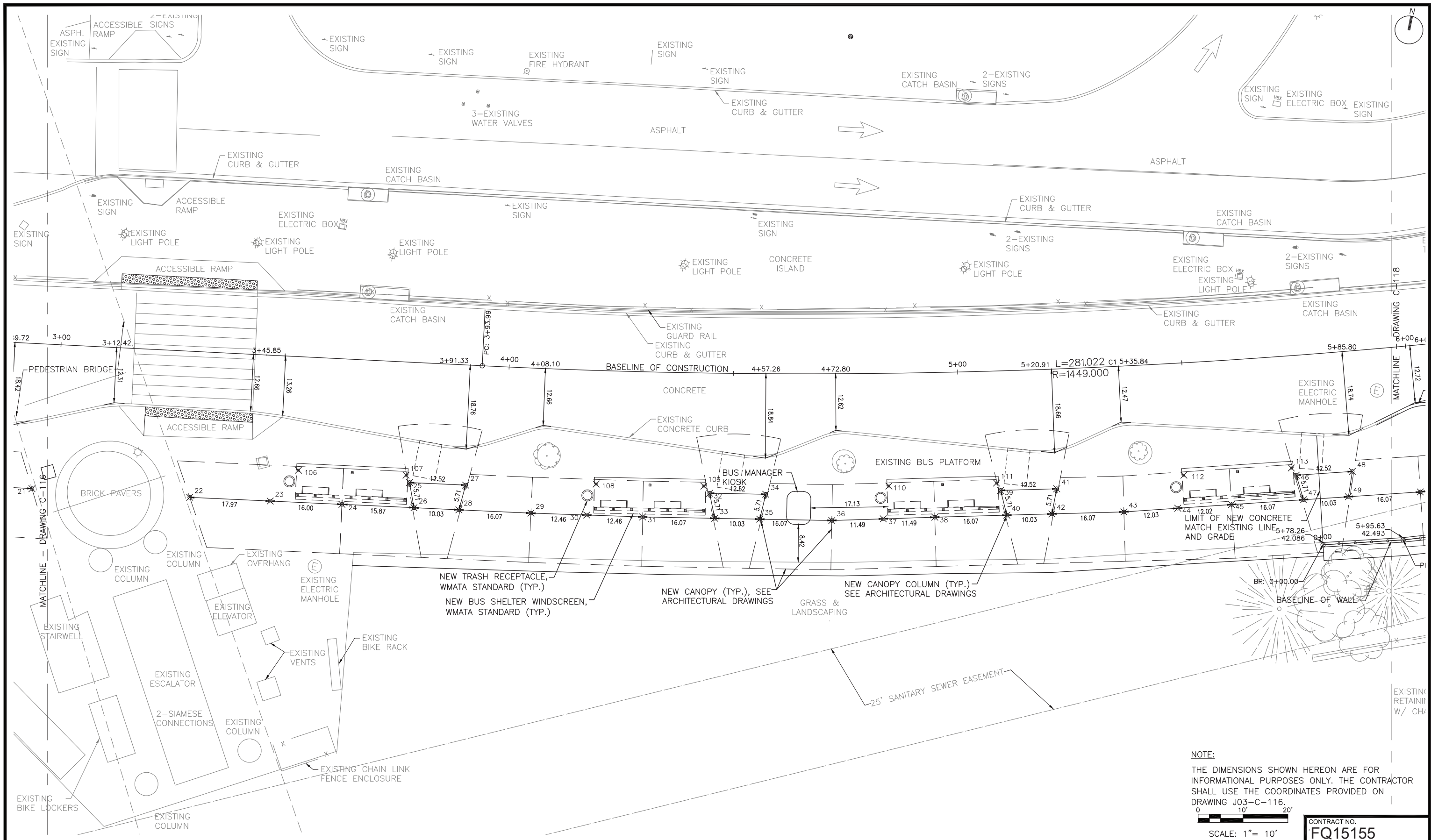
**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

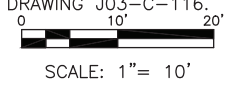
**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
GEOMETRIC LAYOUT PLAN  
AREA 1

SCALE: 1"=10'

DRAWING NO. J03-C-116 M-1273-19

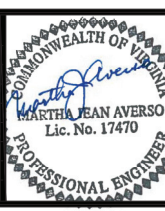


**NOTE:**  
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CONTRACT NO.  
**FQ15155**

DESIGNED			REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
G.P.M.		03-20-15				
D.B.M.		03-20-15				
G.P.M.		03-20-15				
G.P.M.		03-20-15				



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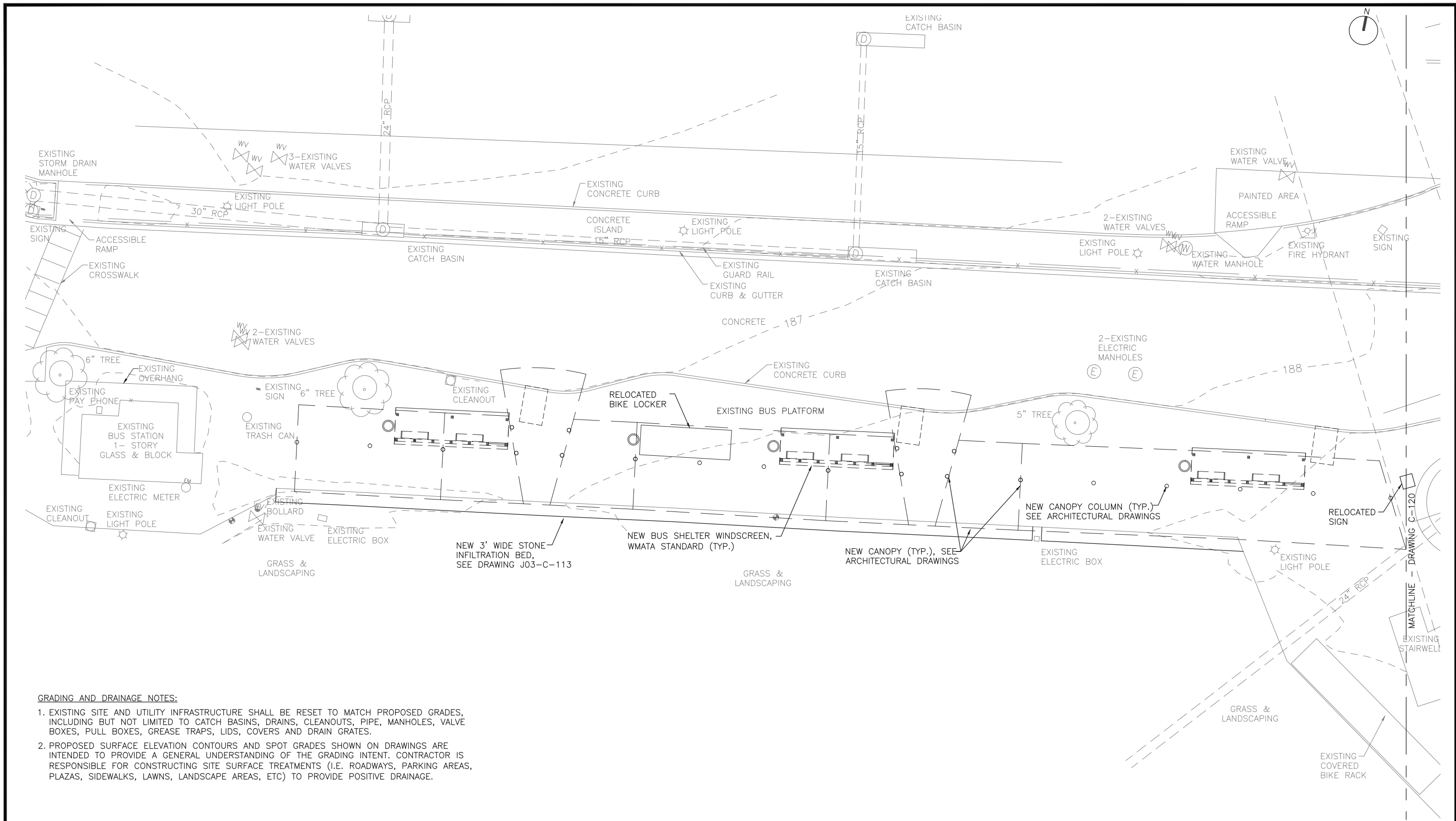
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 GEOMETRIC LAYOUT PLAN  
 AREA 2

SCALE 1"=10'

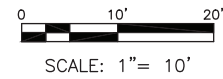
DRAWING NO. J03-C-117 M-1273- 20





**GRADING AND DRAINAGE NOTES:**

1. EXISTING SITE AND UTILITY INFRASTRUCTURE SHALL BE RESET TO MATCH PROPOSED GRADES, INCLUDING BUT NOT LIMITED TO CATCH BASINS, DRAINS, CLEANOUTS, PIPE, MANHOLES, VALVE BOXES, PULL BOXES, GREASE TRAPS, LIDS, COVERS AND DRAIN GRATES.
2. PROPOSED SURFACE ELEVATION CONTOURS AND SPOT GRADES SHOWN ON DRAWINGS ARE INTENDED TO PROVIDE A GENERAL UNDERSTANDING OF THE GRADING INTENT. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING SITE SURFACE TREATMENTS (I.E. ROADWAYS, PARKING AREAS, PLAZAS, SIDEWALKS, LAWNS, LANDSCAPE AREAS, ETC) TO PROVIDE POSITIVE DRAINAGE.

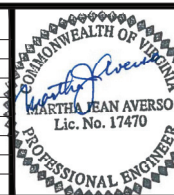


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**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED \_\_\_\_\_



SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

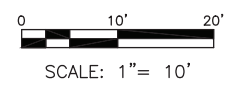
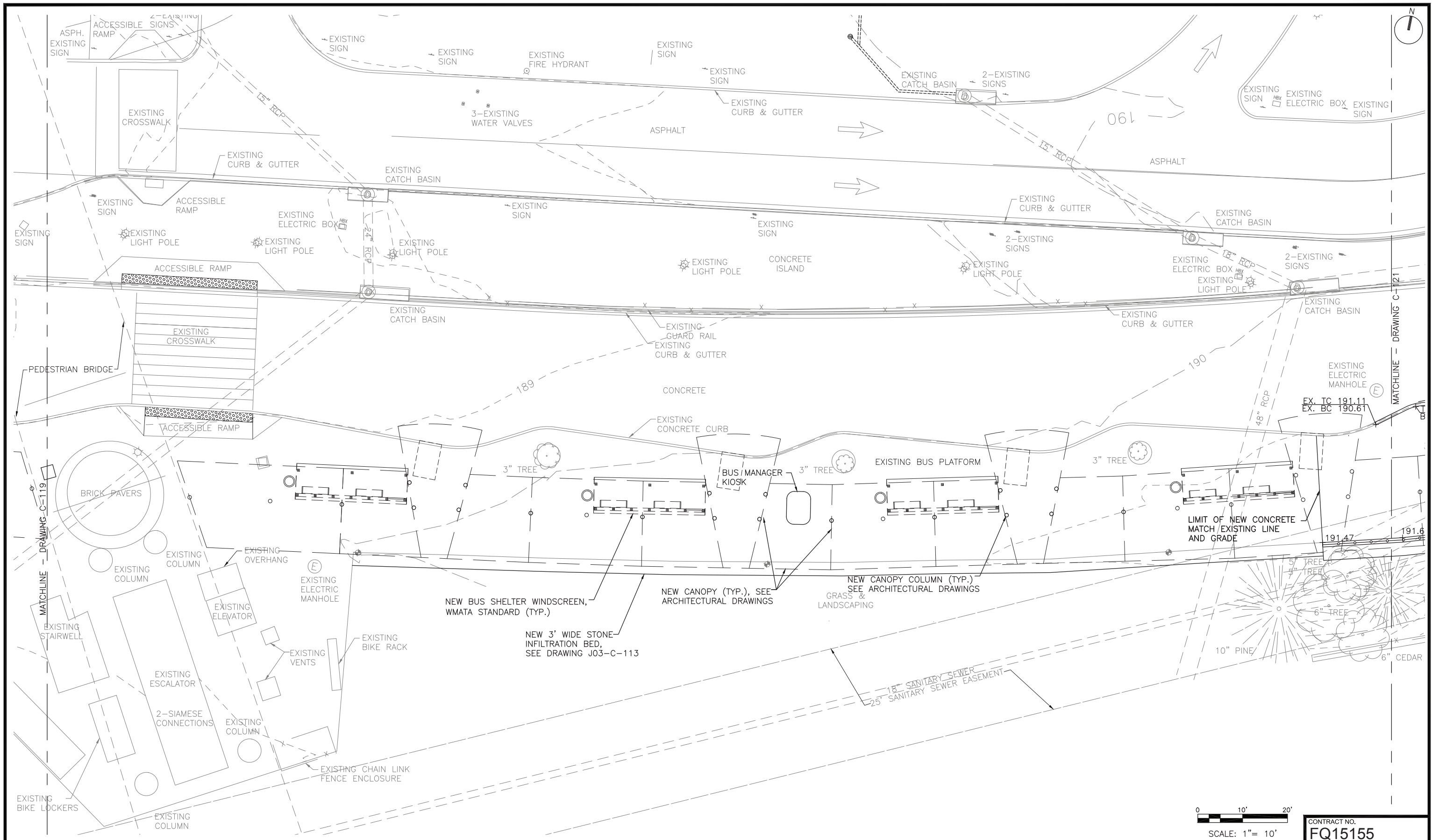
**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS  
GRADING AND DRAINAGE PLAN  
AREA 1**

SCALE  
1"=10'

DRAWING NO.  
J03-C-119

M-1273- 22



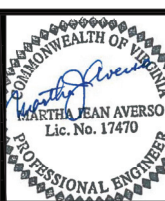


CONTRACT NO.  
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REVISIONS		
NUMBER	DATE	DESCRIPTION



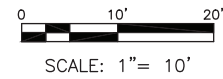
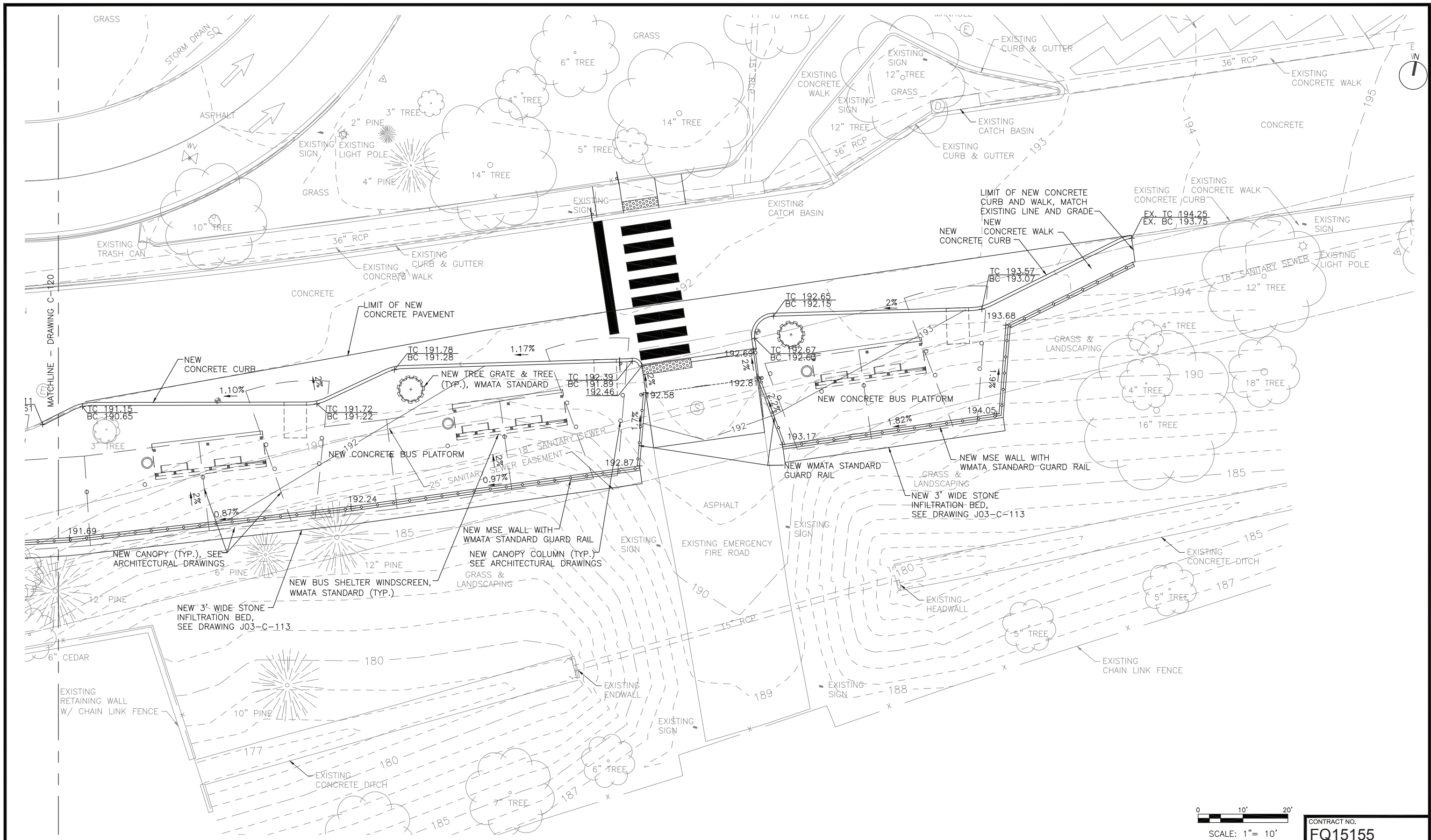
**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
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 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 GRADING AND DRAINAGE PLAN  
 AREA 2

SCALE 1"=10'  
 DRAWING NO. J03-C-120  
 M-1273- 23



CONTRACT NO.  
**FQ15155**

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DRAWN	D.B.M.	03-20-15
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APPROVED	G.P.M.	03-20-15

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REVISIONS		
DATE	BY	DESCRIPTION



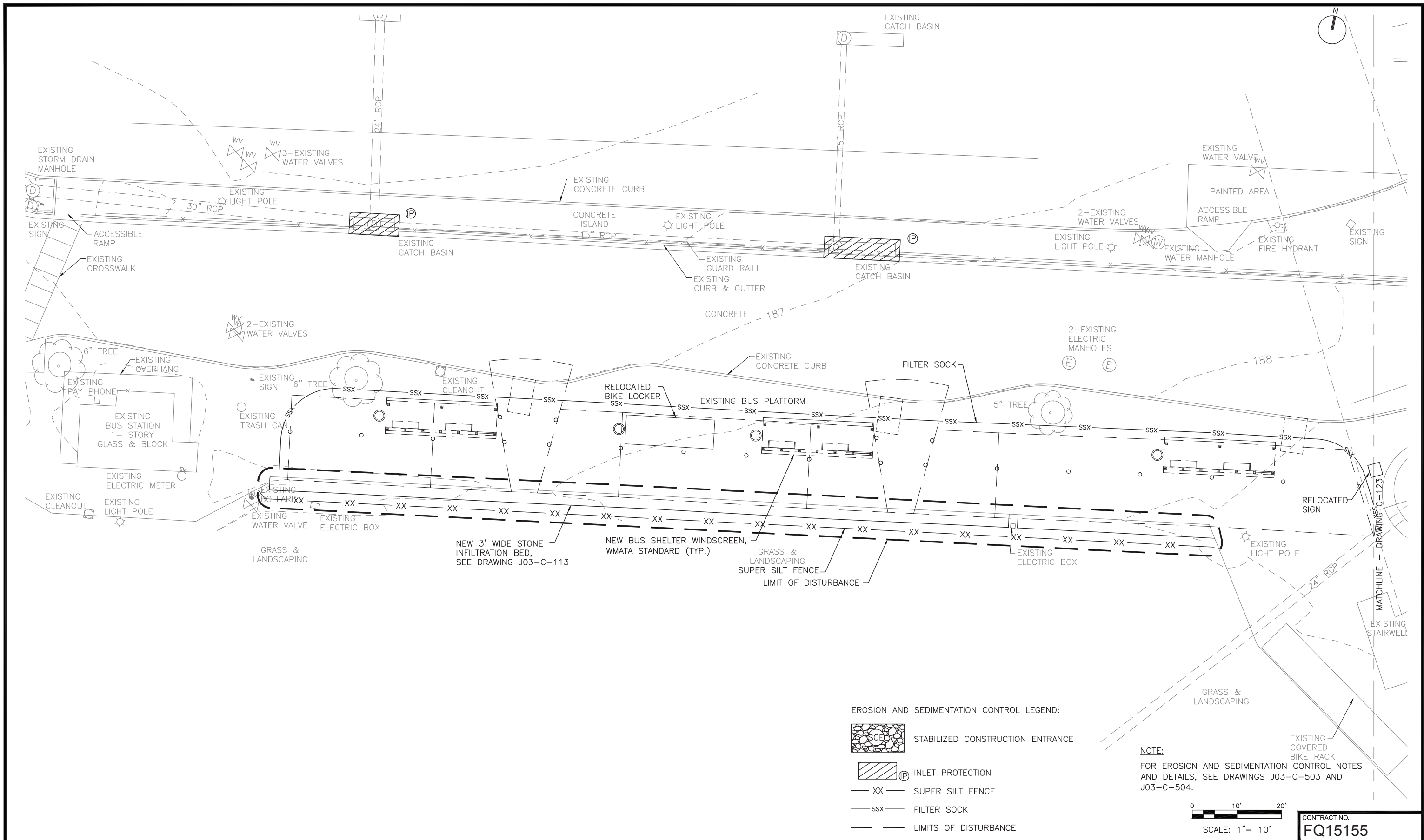
**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
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**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 GRADING AND DRAINAGE PLAN  
 AREA 3

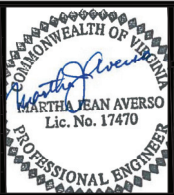
SCALE 1"=10'  
 DRAWING NO. J03-C-121  
 M-1273-24



DESIGNED	G.P.M.	03-20-15
DRAWN	D.B.M.	03-20-15
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**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

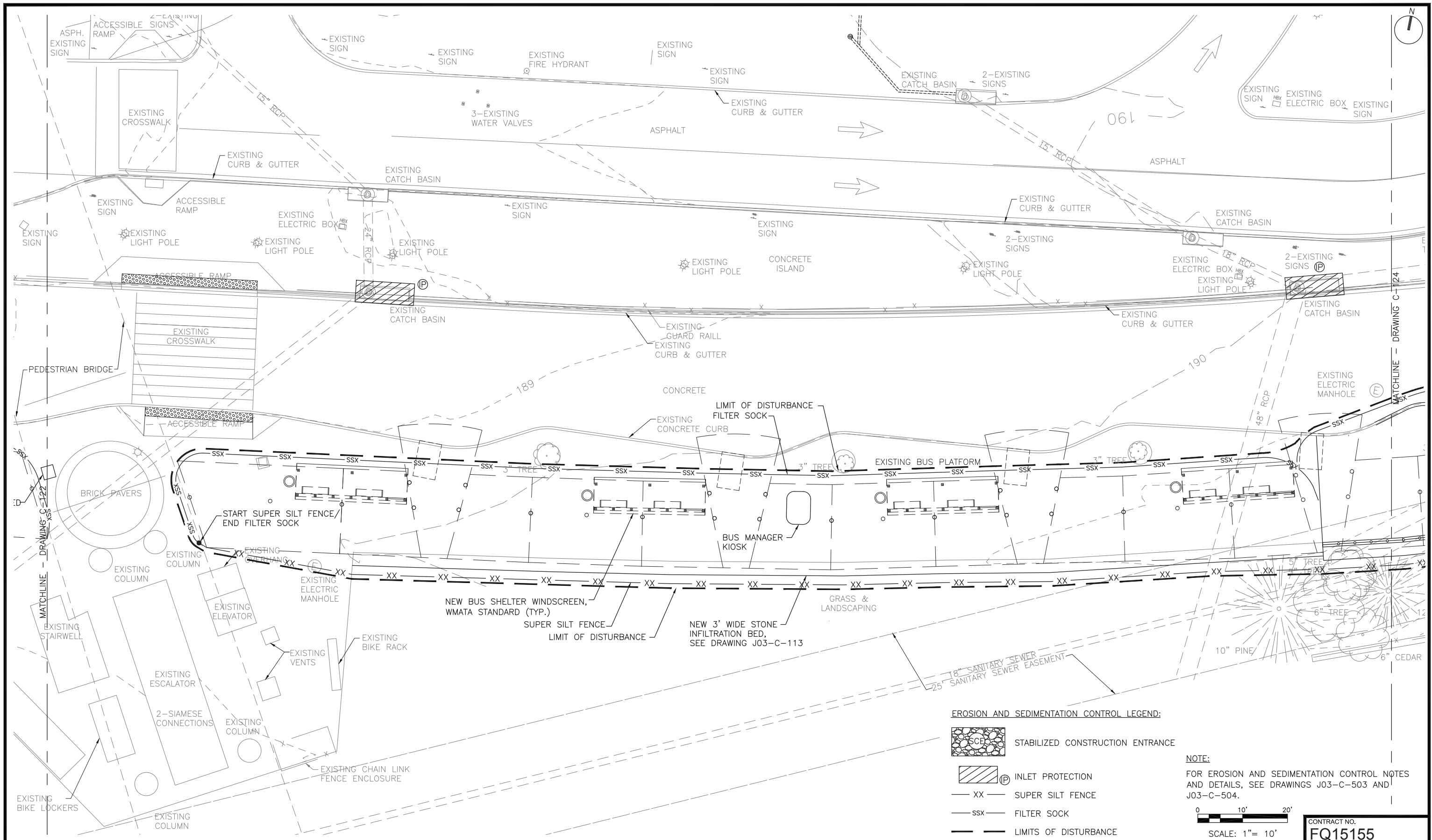
**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**

EROSION AND SEDIMENTATION CONTROL PLAN  
AREA 1






SCALE 1"=10'

CONTRACT NO. **FQ15155**

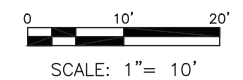
DRAWING NO. **J03-C-122** M-1273- 25



**EROSION AND SEDIMENTATION CONTROL LEGEND:**

-  STABILIZED CONSTRUCTION ENTRANCE
-  INLET PROTECTION
-  SUPER SILT FENCE
-  FILTER SOCK
-  LIMITS OF DISTURBANCE

**NOTE:**  
FOR EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS, SEE DRAWINGS J03-C-503 AND J03-C-504.

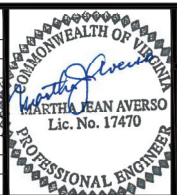


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APPROVED \_\_\_\_\_

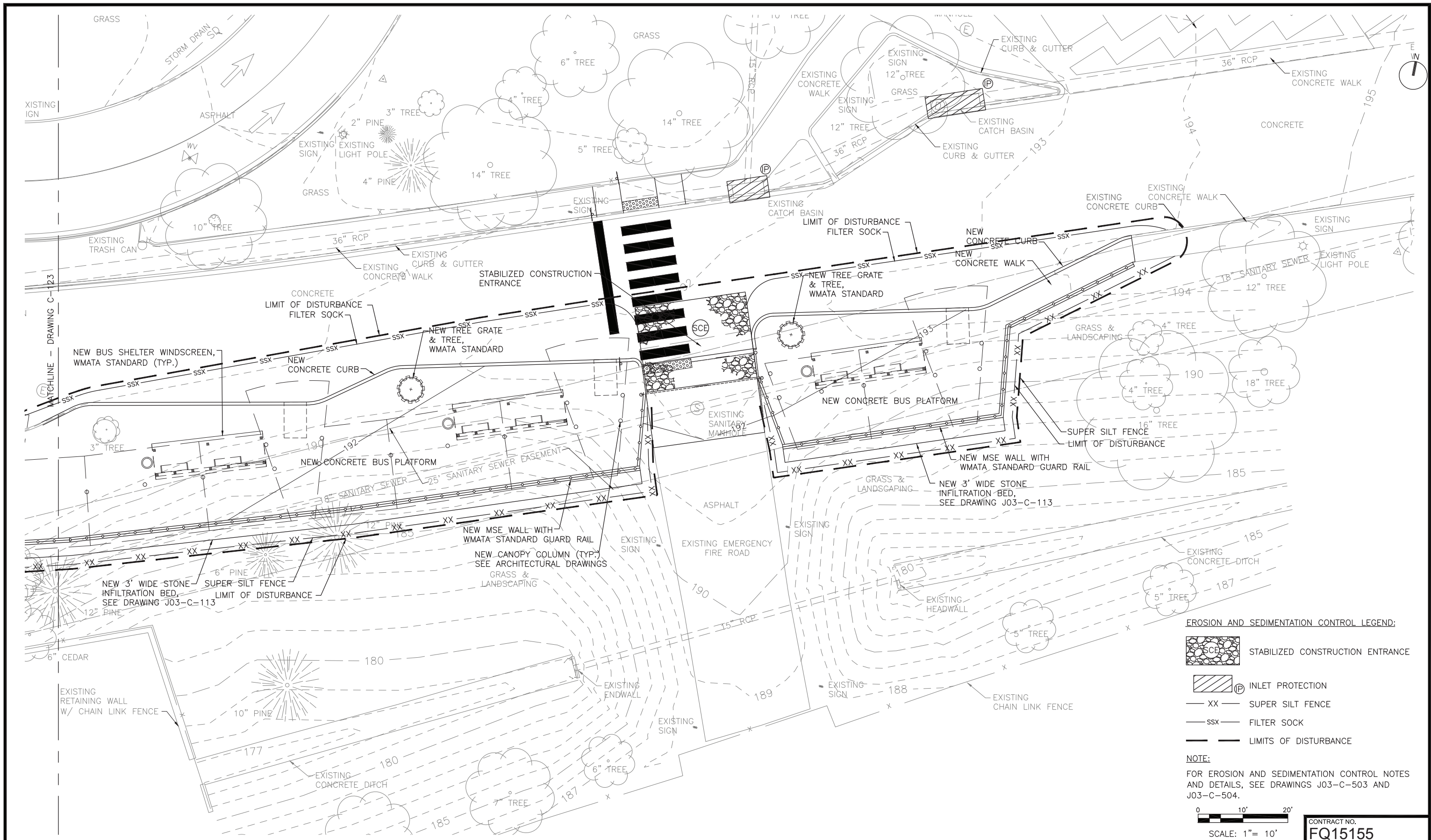
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
EROSION AND SEDIMENTATION CONTROL PLAN  
AREA 2



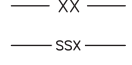

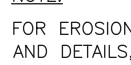
SCALE: 1"=10'

DRAWING NO.  
J03-C-123

M-1273- 26



**EROSION AND SEDIMENTATION CONTROL LEGEND:**

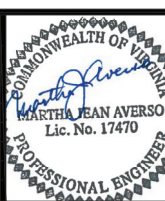
-  STABILIZED CONSTRUCTION ENTRANCE
-  INLET PROTECTION
-  SUPER SILT FENCE
-  FILTER SOCK
-  LIMITS OF DISTURBANCE

**NOTE:**  
 FOR EROSION AND SEDIMENTATION CONTROL NOTES AND DETAILS, SEE DRAWINGS J03-C-503 AND J03-C-504.



CONTRACT NO.  
**FQ15155**

DESIGNED			REFERENCE DRAWINGS		REVISIONS	
DATE	BY	DESCRIPTION	NUMBER	DESCRIPTION	DATE	BY
03-20-15	G.P.M.					
03-20-15	D.B.M.					
03-20-15	G.P.M.					
03-20-15	G.P.M.					



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

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 AND ENGINEERING SERVICES  
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**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

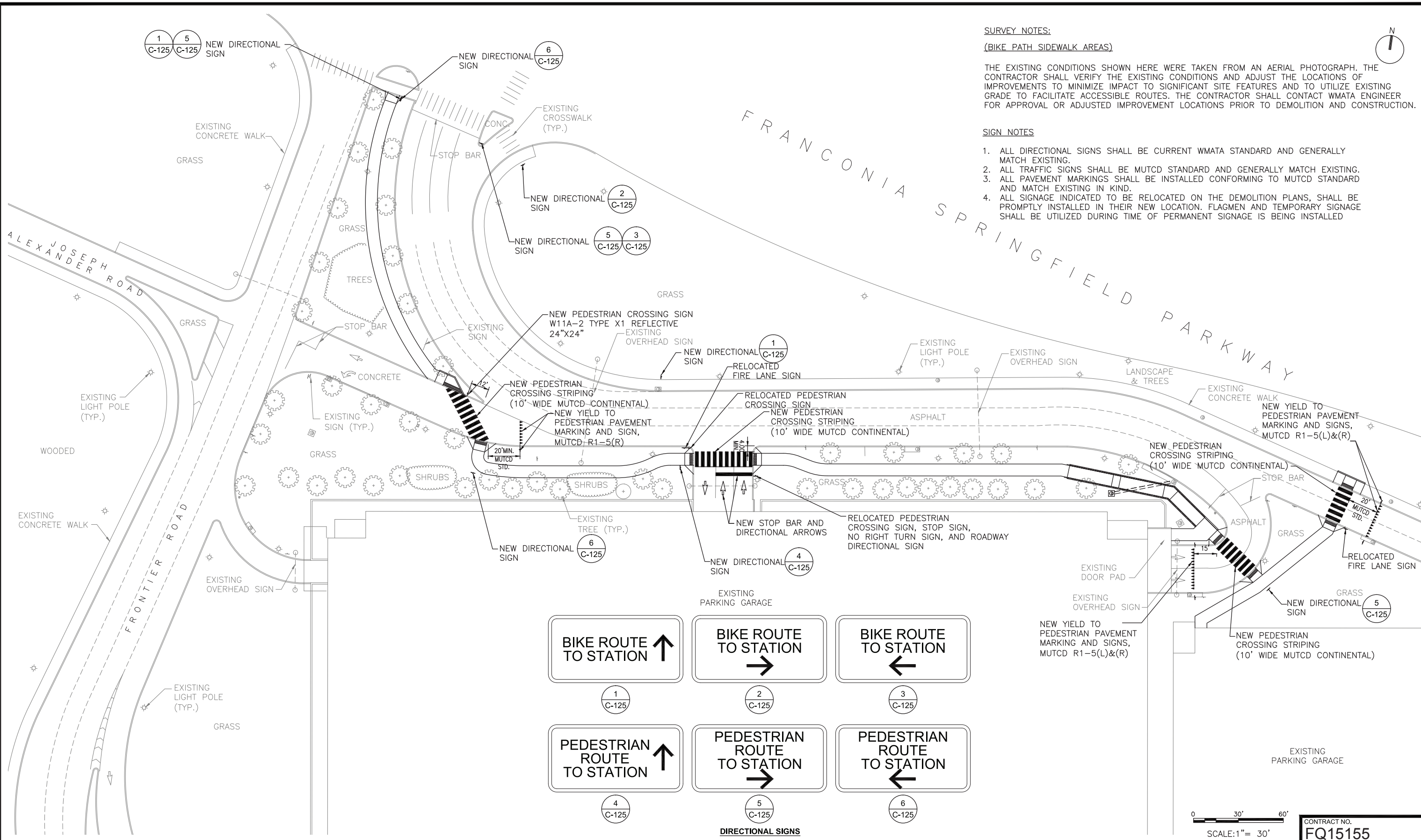
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS  
 EROSION AND SEDIMENTATION CONTROL PLAN  
 AREA 3**

SCALE: 1"=10'

DRAWING NO.  
**J03-C-124**

M-1273- 27



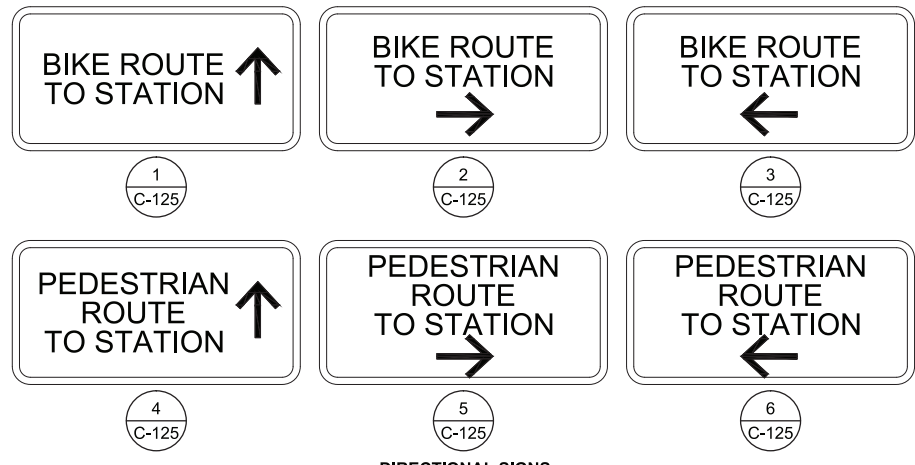
**SURVEY NOTES:**

(BIKE PATH SIDEWALK AREAS)

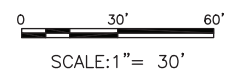
THE EXISTING CONDITIONS SHOWN HERE WERE TAKEN FROM AN AERIAL PHOTOGRAPH. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND ADJUST THE LOCATIONS OF IMPROVEMENTS TO MINIMIZE IMPACT TO SIGNIFICANT SITE FEATURES AND TO UTILIZE EXISTING GRADE TO FACILITATE ACCESSIBLE ROUTES. THE CONTRACTOR SHALL CONTACT WMATA ENGINEER FOR APPROVAL OR ADJUSTED IMPROVEMENT LOCATIONS PRIOR TO DEMOLITION AND CONSTRUCTION.

**SIGN NOTES**

1. ALL DIRECTIONAL SIGNS SHALL BE CURRENT WMATA STANDARD AND GENERALLY MATCH EXISTING.
2. ALL TRAFFIC SIGNS SHALL BE MUTCD STANDARD AND GENERALLY MATCH EXISTING.
3. ALL PAVEMENT MARKINGS SHALL BE INSTALLED CONFORMING TO MUTCD STANDARD AND MATCH EXISTING IN KIND.
4. ALL SIGNAGE INDICATED TO BE RELOCATED ON THE DEMOLITION PLANS, SHALL BE PROMPTLY INSTALLED IN THEIR NEW LOCATION. FLAGMEN AND TEMPORARY SIGNAGE SHALL BE UTILIZED DURING TIME OF PERMANENT SIGNAGE IS BEING INSTALLED



**DIRECTIONAL SIGNS**

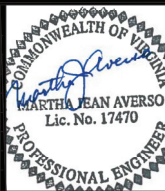


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**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 SIGNAGE AND MARKING PLAN  
 AREA 4

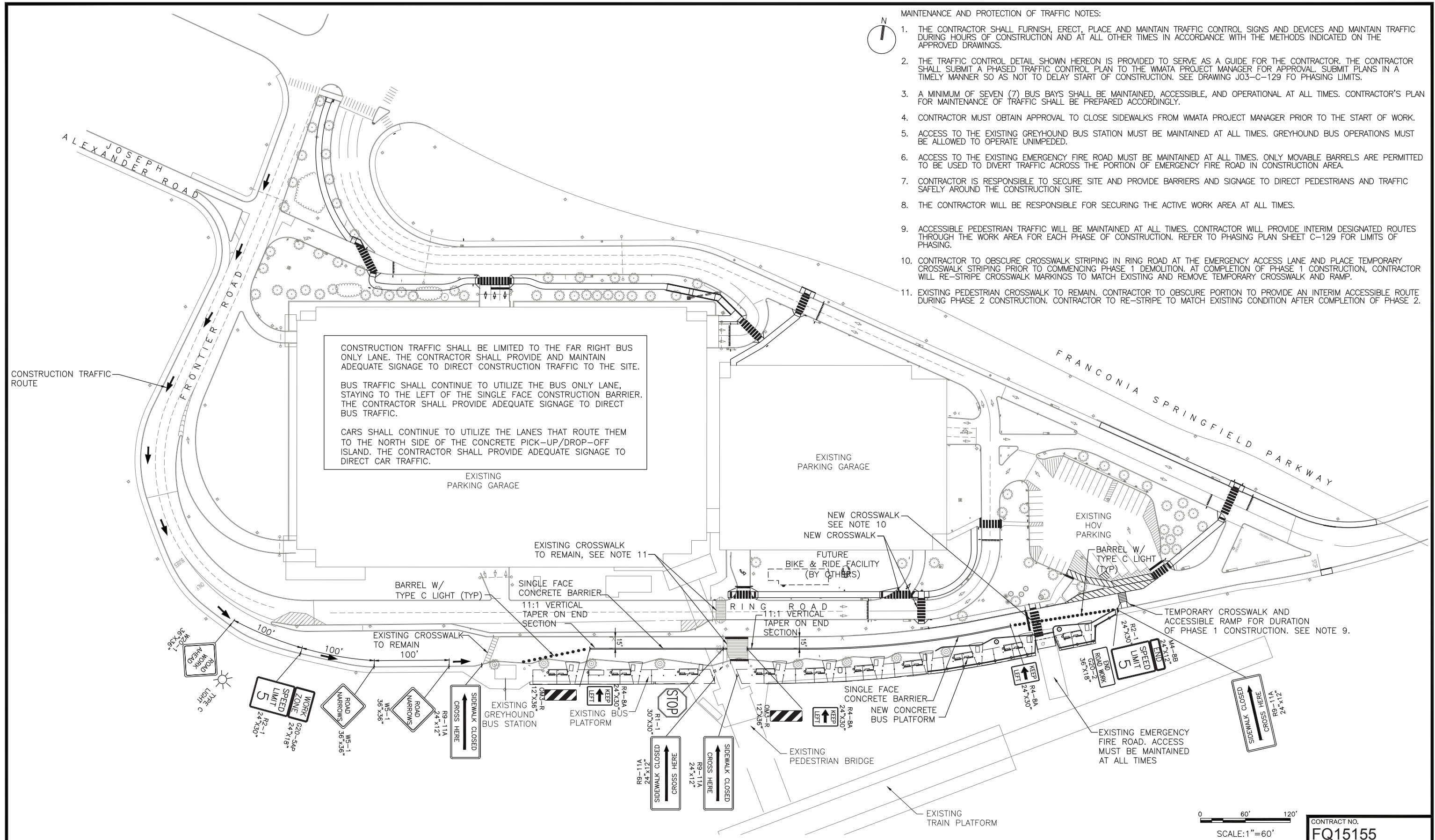
SCALE 1"=30'

DRAWING NO. J03-C-125 M-1273-28









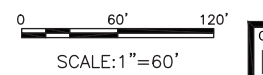
CONSTRUCTION TRAFFIC SHALL BE LIMITED TO THE FAR RIGHT BUS ONLY LANE. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE SIGNAGE TO DIRECT CONSTRUCTION TRAFFIC TO THE SITE.

BUS TRAFFIC SHALL CONTINUE TO UTILIZE THE BUS ONLY LANE, STAYING TO THE LEFT OF THE SINGLE FACE CONSTRUCTION BARRIER. THE CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE TO DIRECT BUS TRAFFIC.

CARS SHALL CONTINUE TO UTILIZE THE LANES THAT ROUTE THEM TO THE NORTH SIDE OF THE CONCRETE PICK-UP/DROP-OFF ISLAND. THE CONTRACTOR SHALL PROVIDE ADEQUATE SIGNAGE TO DIRECT CAR TRAFFIC.

- MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:
1. THE CONTRACTOR SHALL FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THE APPROVED DRAWINGS.
  2. THE TRAFFIC CONTROL DETAIL SHOWN HEREON IS PROVIDED TO SERVE AS A GUIDE FOR THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT A PHASED TRAFFIC CONTROL PLAN TO THE WMATA PROJECT MANAGER FOR APPROVAL. SUBMIT PLANS IN A TIMELY MANNER SO AS NOT TO DELAY START OF CONSTRUCTION. SEE DRAWING J03-C-129 FOR PHASING LIMITS.
  3. A MINIMUM OF SEVEN (7) BUS BAYS SHALL BE MAINTAINED, ACCESSIBLE, AND OPERATIONAL AT ALL TIMES. CONTRACTOR'S PLAN FOR MAINTENANCE OF TRAFFIC SHALL BE PREPARED ACCORDINGLY.
  4. CONTRACTOR MUST OBTAIN APPROVAL TO CLOSE SIDEWALKS FROM WMATA PROJECT MANAGER PRIOR TO THE START OF WORK.
  5. ACCESS TO THE EXISTING GREYHOUND BUS STATION MUST BE MAINTAINED AT ALL TIMES. GREYHOUND BUS OPERATIONS MUST BE ALLOWED TO OPERATE UNIMPEDED.
  6. ACCESS TO THE EXISTING EMERGENCY FIRE ROAD MUST BE MAINTAINED AT ALL TIMES. ONLY MOVABLE BARRELS ARE PERMITTED TO BE USED TO DIVERT TRAFFIC ACROSS THE PORTION OF EMERGENCY FIRE ROAD IN CONSTRUCTION AREA.
  7. CONTRACTOR IS RESPONSIBLE TO SECURE SITE AND PROVIDE BARRIERS AND SIGNAGE TO DIRECT PEDESTRIANS AND TRAFFIC SAFELY AROUND THE CONSTRUCTION SITE.
  8. THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING THE ACTIVE WORK AREA AT ALL TIMES.
  9. ACCESSIBLE PEDESTRIAN TRAFFIC WILL BE MAINTAINED AT ALL TIMES. CONTRACTOR WILL PROVIDE INTERIM DESIGNATED ROUTES THROUGH THE WORK AREA FOR EACH PHASE OF CONSTRUCTION. REFER TO PHASING PLAN SHEET C-129 FOR LIMITS OF PHASING.
  10. CONTRACTOR TO OBSCURE CROSSWALK STRIPING IN RING ROAD AT THE EMERGENCY ACCESS LANE AND PLACE TEMPORARY CROSSWALK STRIPING PRIOR TO COMMENCING PHASE 1 DEMOLITION. AT COMPLETION OF PHASE 1 CONSTRUCTION, CONTRACTOR WILL RE-STRIPE CROSSWALK MARKINGS TO MATCH EXISTING AND REMOVE TEMPORARY CROSSWALK AND RAMP.
  11. EXISTING PEDESTRIAN CROSSWALK TO REMAIN. CONTRACTOR TO OBSCURE PORTION TO PROVIDE AN INTERIM ACCESSIBLE ROUTE DURING PHASE 2 CONSTRUCTION. CONTRACTOR TO RE-STRIPE TO MATCH EXISTING CONDITION AFTER COMPLETION OF PHASE 2.

CONSTRUCTION TRAFFIC ROUTE

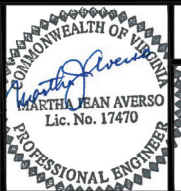


CONTRACT NO.  
**FQ15155**

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OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

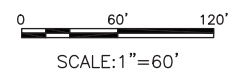
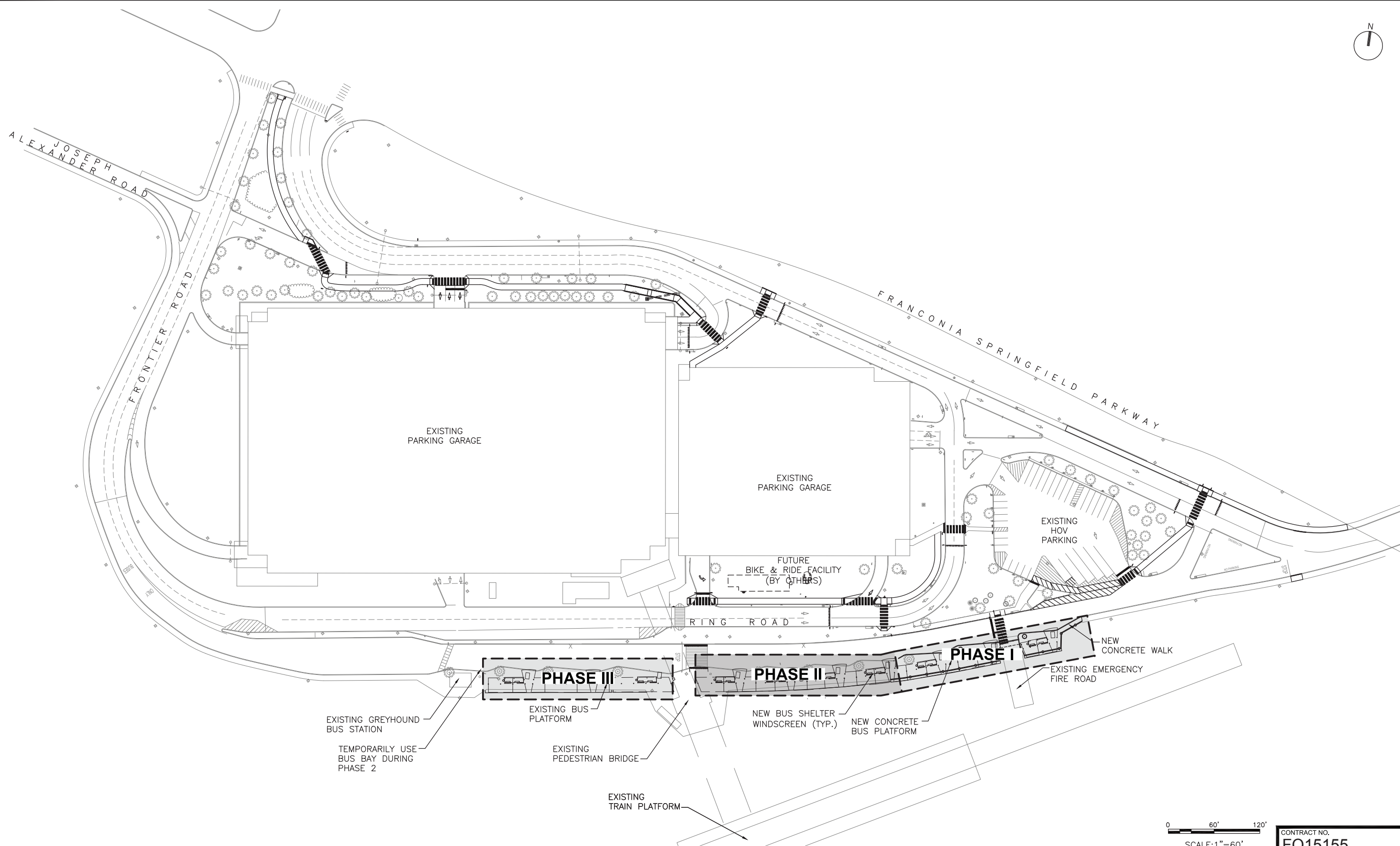
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**

CONCEPTUAL MAINTENANCE OF TRAFFIC PLAN OVERALL SITE

SCALE 1"=60'

DRAWING NO. J03-C-128 M-1273- 31

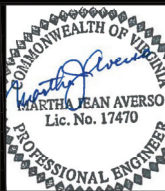


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**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS**  
 PHASING PLAN  
 OVERALL SITE

SCALE  
1"=10'

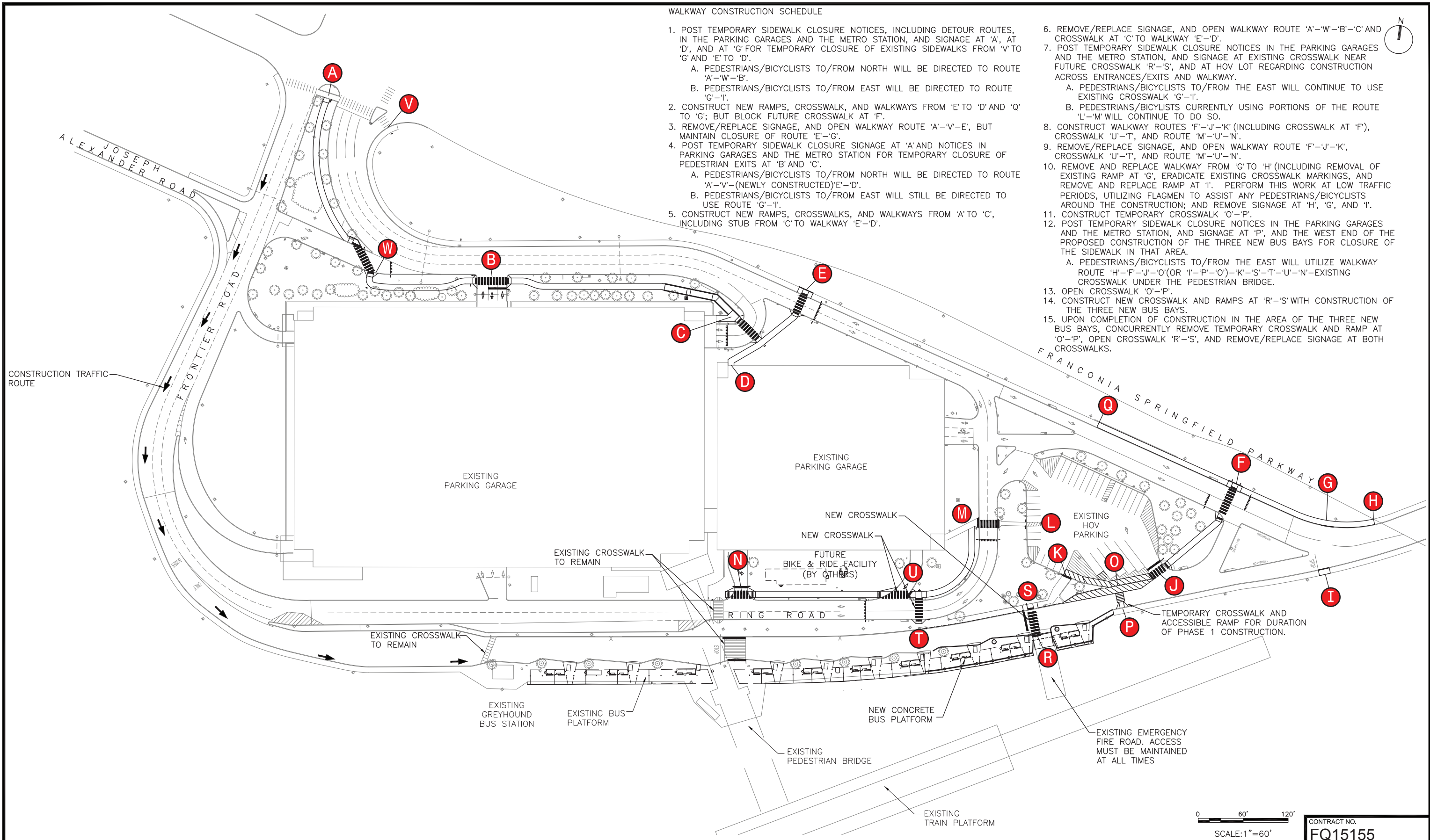
DRAWING NO.  
J03-C-129

M-1273- 32

WALKWAY CONSTRUCTION SCHEDULE

1. POST TEMPORARY SIDEWALK CLOSURE NOTICES, INCLUDING DETOUR ROUTES, IN THE PARKING GARAGES AND THE METRO STATION, AND SIGNAGE AT 'A', AT 'D', AND AT 'G' FOR TEMPORARY CLOSURE OF EXISTING SIDEWALKS FROM 'V' TO 'G' AND 'E' TO 'D'.
  - A. PEDESTRIANS/BICYCLISTS TO/FROM NORTH WILL BE DIRECTED TO ROUTE 'A'-W-B'.
  - B. PEDESTRIANS/BICYCLISTS TO/FROM EAST WILL BE DIRECTED TO ROUTE 'G'-I'.
2. CONSTRUCT NEW RAMPS, CROSSWALK, AND WALKWAYS FROM 'E' TO 'D' AND 'Q' TO 'G'; BUT BLOCK FUTURE CROSSWALK AT 'F'.
3. REMOVE/REPLACE SIGNAGE, AND OPEN WALKWAY ROUTE 'A'-V-E', BUT MAINTAIN CLOSURE OF ROUTE 'E'-G'.
4. POST TEMPORARY SIDEWALK CLOSURE SIGNAGE AT 'A' AND NOTICES IN PARKING GARAGES AND THE METRO STATION FOR TEMPORARY CLOSURE OF PEDESTRIAN EXITS AT 'B' AND 'C'.
  - A. PEDESTRIANS/BICYCLISTS TO/FROM NORTH WILL BE DIRECTED TO ROUTE 'A'-V-(NEWLY CONSTRUCTED)'E'-D'.
  - B. PEDESTRIANS/BICYCLISTS TO/FROM EAST WILL STILL BE DIRECTED TO USE ROUTE 'G'-I'.
5. CONSTRUCT NEW RAMPS, CROSSWALKS, AND WALKWAYS FROM 'A' TO 'C', INCLUDING STUB FROM 'C' TO WALKWAY 'E'-D'.

6. REMOVE/REPLACE SIGNAGE, AND OPEN WALKWAY ROUTE 'A'-W-'B'-'C' AND CROSSWALK AT 'C' TO WALKWAY 'E'-D'.
7. POST TEMPORARY SIDEWALK CLOSURE NOTICES IN THE PARKING GARAGES AND THE METRO STATION, AND SIGNAGE AT EXISTING CROSSWALK NEAR FUTURE CROSSWALK 'R'-S', AND AT HOV LOT REGARDING CONSTRUCTION ACROSS ENTRANCES/EXITS AND WALKWAY.
  - A. PEDESTRIANS/BICYCLISTS TO/FROM THE EAST WILL CONTINUE TO USE EXISTING CROSSWALK 'G'-I'.
  - B. PEDESTRIANS/BICYCLISTS CURRENTLY USING PORTIONS OF THE ROUTE 'L'-M WILL CONTINUE TO DO SO.
8. CONSTRUCT WALKWAY ROUTES 'F'-J-'K' (INCLUDING CROSSWALK AT 'F'), CROSSWALK 'U'-T, AND ROUTE 'M'-U-'N'.
9. REMOVE/REPLACE SIGNAGE, AND OPEN WALKWAY ROUTE 'F'-J-'K', CROSSWALK 'U'-T, AND ROUTE 'M'-U-'N'.
10. REMOVE AND REPLACE WALKWAY FROM 'G' TO 'H' (INCLUDING REMOVAL OF EXISTING RAMP AT 'G', ERADICATE EXISTING CROSSWALK MARKINGS, AND REMOVE AND REPLACE RAMP AT 'I'. PERFORM THIS WORK AT LOW TRAFFIC PERIODS, UTILIZING FLAGMEN TO ASSIST ANY PEDESTRIANS/BICYCLISTS AROUND THE CONSTRUCTION; AND REMOVE SIGNAGE AT 'H', 'G', AND 'I'.
11. CONSTRUCT TEMPORARY CROSSWALK 'O'-P'.
12. POST TEMPORARY SIDEWALK CLOSURE NOTICES IN THE PARKING GARAGES AND THE METRO STATION, AND SIGNAGE AT 'P', AND THE WEST END OF THE PROPOSED CONSTRUCTION OF THE THREE NEW BUS BAYS FOR CLOSURE OF THE SIDEWALK IN THAT AREA.
  - A. PEDESTRIANS/BICYCLISTS TO/FROM THE EAST WILL UTILIZE WALKWAY ROUTE 'H'-F-'J'-O'(OR 'I'-P-'O')-'K'-S-'T'-U-'N'-EXISTING CROSSWALK UNDER THE PEDESTRIAN BRIDGE.
13. OPEN CROSSWALK 'O'-P'.
14. CONSTRUCT NEW CROSSWALK AND RAMPS AT 'R'-S' WITH CONSTRUCTION OF THE THREE NEW BUS BAYS.
15. UPON COMPLETION OF CONSTRUCTION IN THE AREA OF THE THREE NEW BUS BAYS, CONCURRENTLY REMOVE TEMPORARY CROSSWALK AND RAMP AT 'O'-P', OPEN CROSSWALK 'R'-S', AND REMOVE/REPLACE SIGNAGE AT BOTH CROSSWALKS.

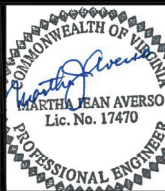


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CONTRACT NO. FQ15155

DESIGNED	G.P.M.	03-20-15
		DATE
DRAWN	D.B.M.	03-20-15
		DATE
CHECKED	G.P.M.	03-20-15
		DATE
APPROVED	G.P.M.	03-20-15
		DATE

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NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION



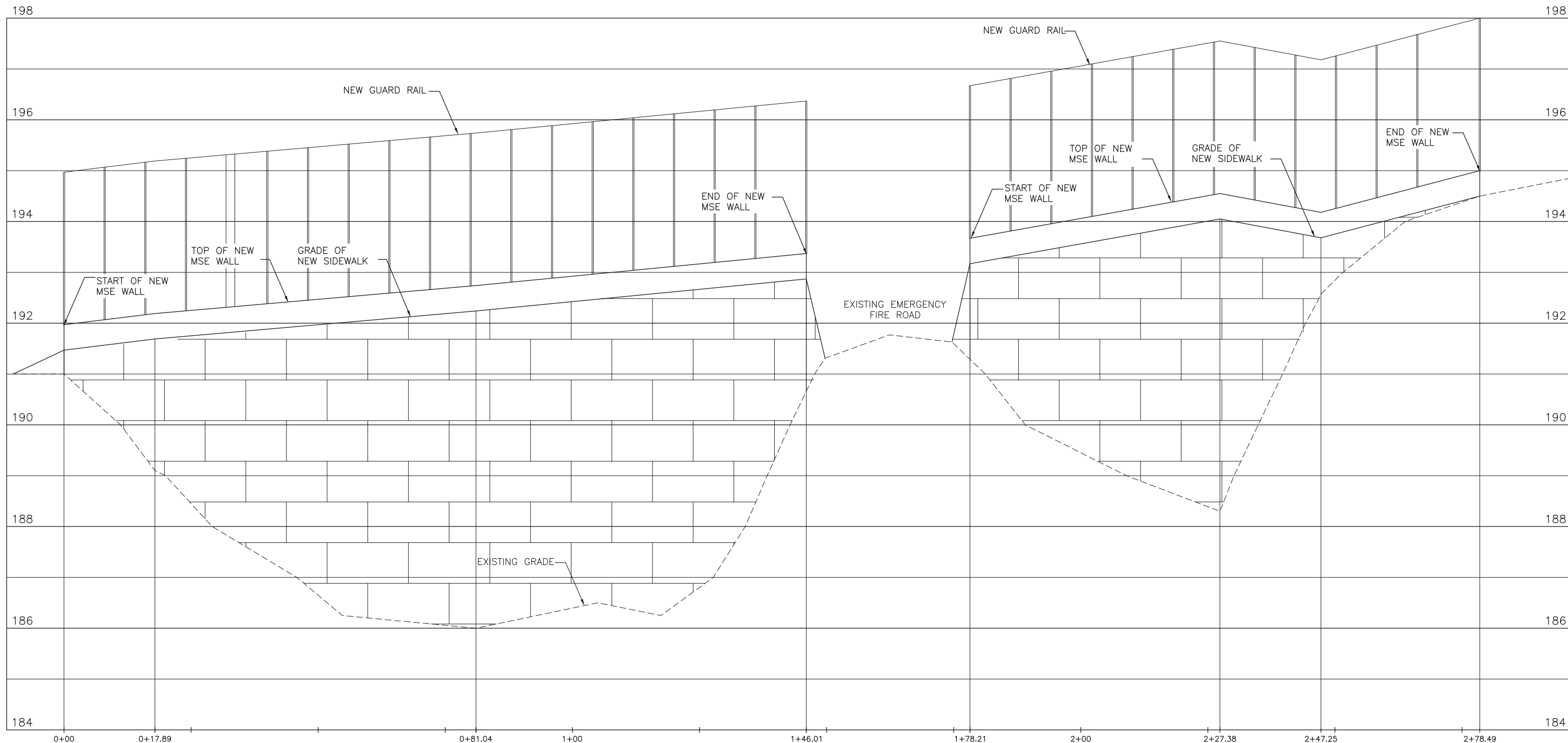
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS  
 WALKWAY CONSTRUCTION SCHEDULE OVERALL SITE

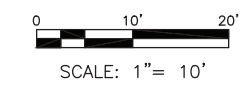
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 M-1273- 33



PROFILE-MSE WALL

SCALE: 1"=10'(H)  
1"= 1'(V)

**A** PROFILE-MSE WALL  
C-501 SCALE: 1" = 10'

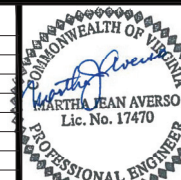


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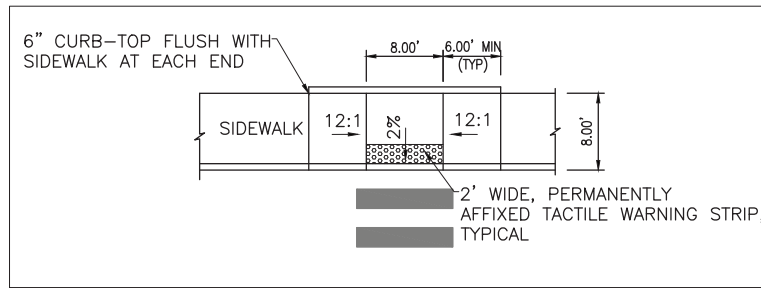
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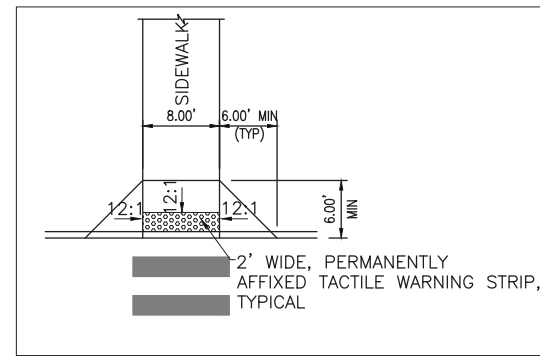
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 APPROVED \_\_\_\_\_

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 SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

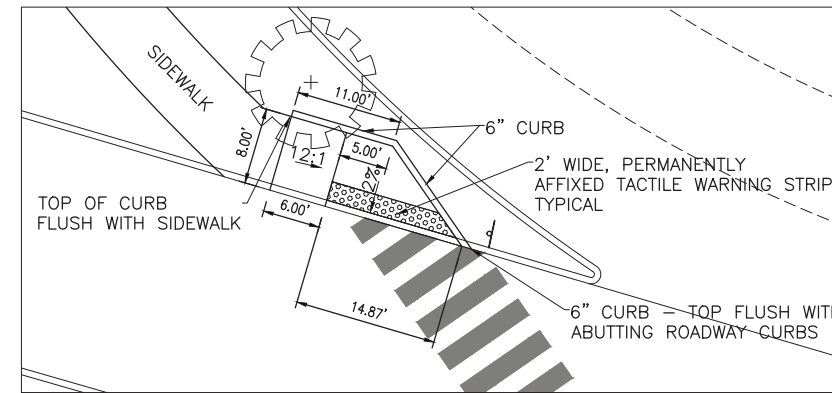
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 PROFILE - MSE WALL (SOUTH SIDE)  
 SCALE 1"=10'  
 DRAWING NO. J03-C-501  
 M-1273- 34



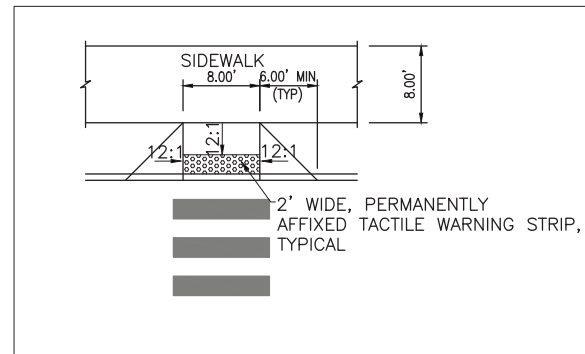
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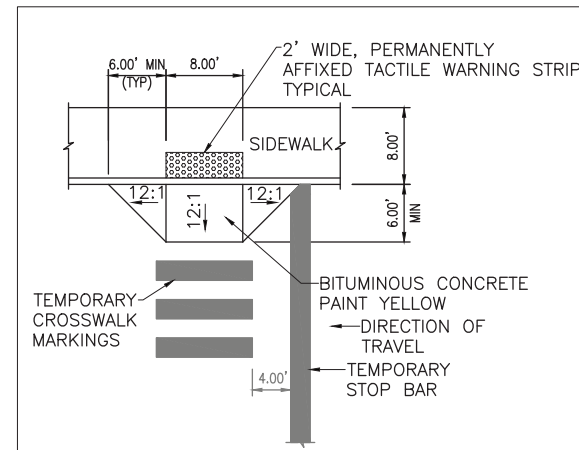
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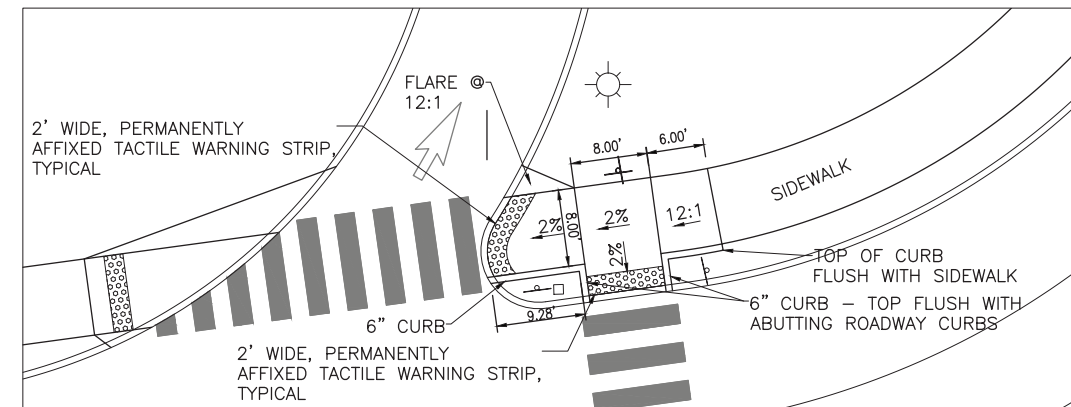
TYPE E



TYPE B



TYPE D  
TEMPORARY RAMP

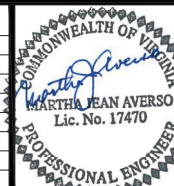


TYPE F

**A**  
C-502 **ADA RAMPS**  
NOT TO SCALE

CONTRACT NO.  
FQ15155

DESIGNED			REFERENCE DRAWINGS		REVISIONS		
DATE	BY	DESCRIPTION	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
03-20-15	G.P.M.						
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03-20-15	G.P.M.						
03-20-15	G.P.M.						



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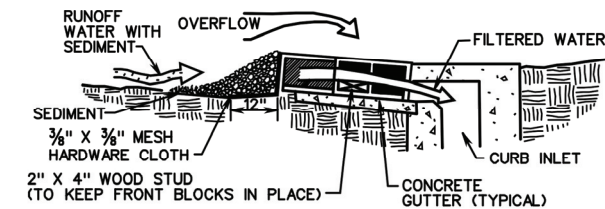
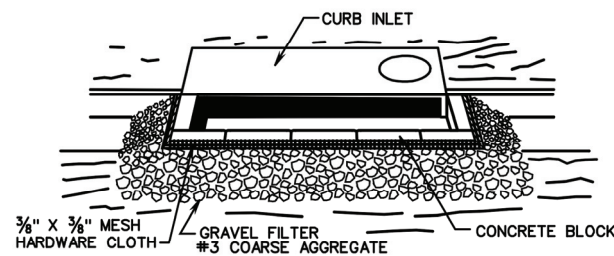
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SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS  
ADA RAMP DETAILS

SCALE  
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DRAWING NO.  
J03-C-502

M-1273- 35



SECTION VIEW

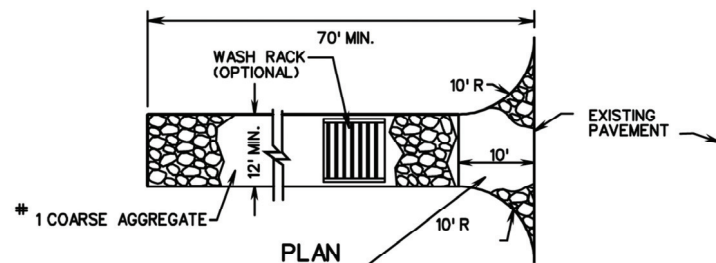
**SPECIFIC APPLICATION**

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.

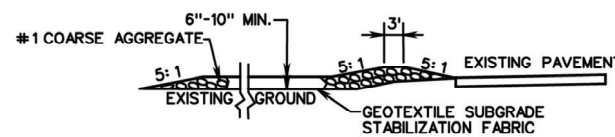
**NOTE:**

GEOTEXTILE PRODUCTS DESIGNED TO BE INSERTED INTO GRATED DROP INLETS OR DESIGNED TO COVER THE SLOTS OF SLOT DROP INLETS, THAT HAVE BEEN APPROVED FOR USE ON VDOT PROJECTS AND ARE FOUND ON VDOT'S SPEL LIST, MAY BE SUBSTITUTED FOR THE DROP INLET PROTECTION DEVICES DETAILED HEREON.

**A** INLET PROTECTION  
C-503 NOT TO SCALE



6" MINIMUM DEPTH #1 COARSE AGGREGATE, WITH MINIMUM 10' CLOSEST TO ROADWAY CAPPED WITH 4" MINIMUM DEPTH #68 OR #78 AGGREGATE, AS DIRECTED BY THE ENGINEER.

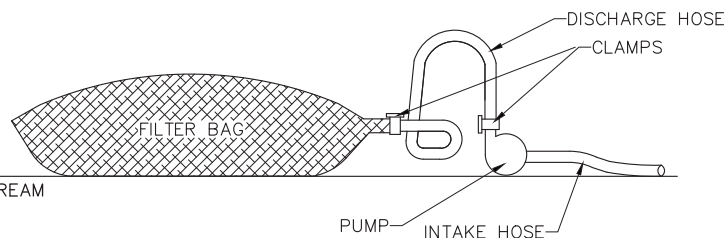
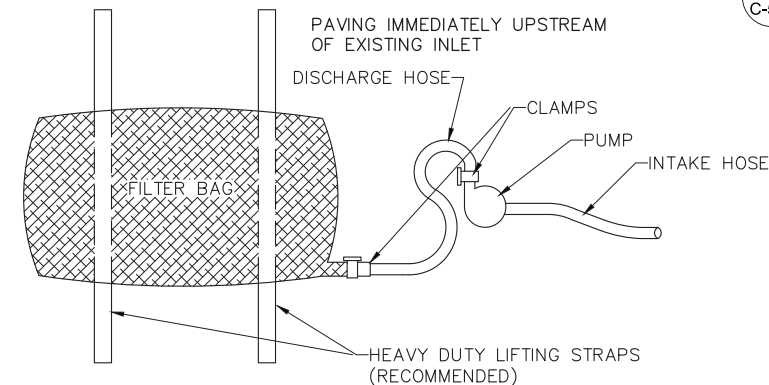


PROFILE

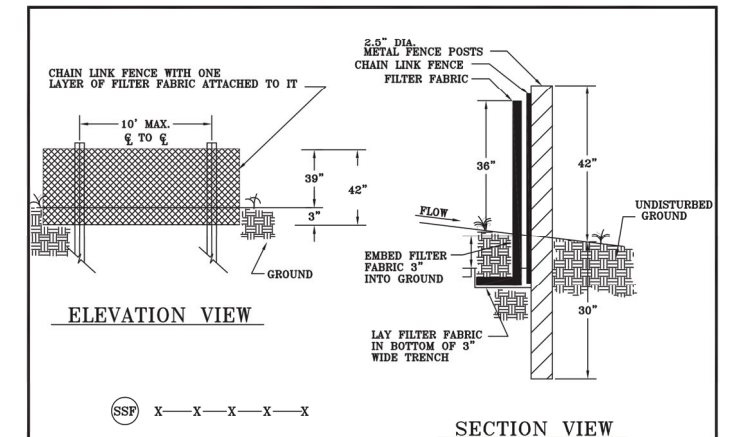
1. SURFACE WATER SHALL BE PIPED UNDER THE CONSTRUCTION ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY SHALL BE REMOVED IMMEDIATELY.
3. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
4. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER HEAVY USE AND EACH RAIN.

**B** STABILIZED CONSTRUCTION ENTRANCE  
C-503 NOT TO SCALE

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE



**D** PUMPED WATER FILTER BAG  
C-503 NOT TO SCALE



SUPER SILT FENCE  
NO SCALE

**FENCING**

Chain link fence shall be 39" above grade with 3" embedded for a total fabric width of 42". The post shall be 42" above grade with 30" placed below grade (without concrete) for a total length of 72".

**NOTES**

1. Chain link fence shall be fastened securely to fence posts with wire ties.
2. Filter fabric shall be fastened securely to chain link fence with ties spaced horizontally 24" at the top and midsection.
3. Physical properties of the filter fabric shall conform to the latest edition of THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK.
4. When two sections of filter fabric adjoin each other, they shall be overlapped by 6".
5. Maintenance shall be performed as needed and material shall be removed when sediment build-up reaches 50% of the height of the super silt fence.

Ref. Sec. 11-0110.3, 11-0110.3J

SUPER SILT FENCE  
NO SCALE

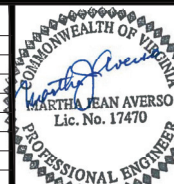
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Rev. 1-00, 2011 Reprint

**C** SUPER SILT FENCE  
C-503 NOT TO SCALE

CONTRACT NO.  
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			NUMBER	DESCRIPTION	DATE	DESCRIPTION
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APPROVED	G.P.M.	03-20-15 DATE				



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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APPROVED \_\_\_\_\_



SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS  
EROSION AND SEDIMENTATION CONTROL DETAILS

SCALE  
NO SCALE

DRAWING NO.  
J03-C-503

M-1273- 36

SEQUENCE OF CONSTRUCTION

1. MAINTENANCE OF TRAFFIC MEASURES MUST BE IN PLACE AND ANY UTILITIES DEMOLISHED/DISCONNECTED PRIOR TO PROCEEDING WITH THE WORK. (SEE DEMOLITION AND ELECTRICAL PLANS.)
2. CLEAR AND GRUB FOR INSTALLATION OF SUPER SILT FENCE.
3. INSTALL SUPER SILT FENCE CLEAR OF NECESSARY LIMITS OF GRADING FOR CONSTRUCTION OF PROPOSED MSE WALLS.
4. REMOVE SIDEWALK AND PAVING NECESSARY FOR CONSTRUCTION OF S.C.E. (NOTE: DEMOLITION OF PAVING WITHIN THE EMERGENCY FIRE ROAD MUST BE PHASED TO MAINTAIN ACCESS FOR SERVICE AND EMERGENCY VEHICLES AT ALL TIMES.)
5. CONSTRUCT NECESSARY PORTION(S) OF S.C.E., AND INSTALL INLET PROTECTION.
6. CLEAR AND GRUB AREAS OF PROPOSED FILL AND MSE WALLS.
7. EXCAVATE FOR AND CONSTRUCT CANOPY FOUNDATIONS AND PADS FOR MSE WALLS.
8. CONSTRUCT CANOPY SUPPORTS TO 3' BELOW FINISHED SIDEWALK GRADE.
9. CONSTRUCT MSE WALLS, BACK FILLING TO LEVEL GRADE AS THE WALLS GO UP, AS DIRECTED BY THE WALL CONTRACTOR.
10. COMPLETE CONSTRUCTION OF CANOPY FOUNDATIONS, INCLUDING ELECTRICAL DUCTS FOR LIGHTING/TELECOMMUNICATIONS.
11. INSTALL UTILITY SLEEVES/DUCTBANKS AND PULL BOXES, AS SHOWN ON THE ELECTRICAL PLANS. (THIS WILL INCLUDE ALL DUCTS/SLEEVES NECESSARY FOR THE BUS MANAGER'S KIOSK, BUS SHELTERS, AND BIKE LOCKERS WHERE SHOWN ON THE LAYOUT PLANS.)
12. STABILIZE DISTURBED AREA BETWEEN THE MSE WALLS AND ROADWAY USING STONE (ON GEOTEXTILE FABRIC IF/WHERE REQUIRED BY THE WMATA ENGINEER).
13. NEATLY SAWCUT AND REMOVE SIDEWALK AND PAVING TO THE LIMITS INDICATED ON THE DEMOLITION PLANS.
14. CONSTRUCT NEW CURBS, ROADWAY PAVING, AND SIDEWALKS.
15. CONSTRUCT NEW INFILTRATION TRENCH ALONG BACK OF MSE WALLS.
16. REMOVE SEDIMENT CONTROL MEASURES AND STABILIZE REMAINING DISTURBED AREAS.
17. COMPLETE SURFACE IMPROVEMENTS AND CANOPY CONSTRUCTION.
18. UPON COMPLETION OR TEMPORARY CESSATION OF EARTH DISTURBANCE ACTIVITY, OR ANY STAGE THEREOF, THE PROJECT SITE SHALL BE IMMEDIATELY STABILIZED.
19. UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENTATION CONTROLS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROL AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTIVE AND REMEDIAL MAINTENANCE WORK MUST BE PERFORMED IMMEDIATELY.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

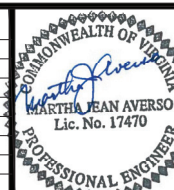
- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION 4VAC50-30 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2: THE PLAN-APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND-DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN-APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN-APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND-DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- ES-10: THE CONTRACTOR SHALL NOT REMOVE ANY BITUMINOUS PAVING IN EXCESS OF THAT WHICH CAN BE BACKFILLED WITH STONE SUBBASE MATERIAL IN THE SAME WORKING DAY.

STANDARD NOTES

- MS-1 PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS.
- MS-2 DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
- MS-3 A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
- MS-4 SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE.
- MS-5 STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSION IMMEDIATELY AFTER INSTALLATION.
- MS-6 SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
- MS-7 CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. ADDITIONAL SLOPE STABILIZATION MEASURES SHOULD BE PROVIDED TO PREVENT EXCESSIVE EROSION ON SLOPES.
- MS-8 CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- MS-9 ADEQUATE DRAINAGE PROTECTION SHALL BE MADE WHENEVER WATER SEEPS FROM A SLOPE FACE.
- MS-10 ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED.
- MS-11 ADEQUATE OUTLET PROTECTION AND TEMPORARY OR PERMANENT LINING SHALL BE INSTALLED IN BOTH CONVEYANCE CHANNEL AND RECEIVING CHANNEL BEFORE MADE OPERATIONAL.
- MS-12 MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE AREA WHEN WORKING IN A LIVE WATERCOURSE.
- MS-13 TEMPORARY VEHICULAR STREAM CROSSING SHALL BE PROVIDED WHEN A LIVE WATERCOURSE MUST BE CROSSED.
- MS-14 ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTINENT TO WORKING IN CROSSING WATERCOURSE SHALL BE MET.
- MS-15 THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IS COMPLETED.
- MS-16 UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND CRITERIA SHOWN IN CHAPTER 8 OF VESCH - PAGE 22.
- MS-17 PROVISION SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE AREA WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PUBLIC OR PAVED ROADS.
- MS-18 ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION AFTER THE PERMISSION OF THE INSPECTOR.

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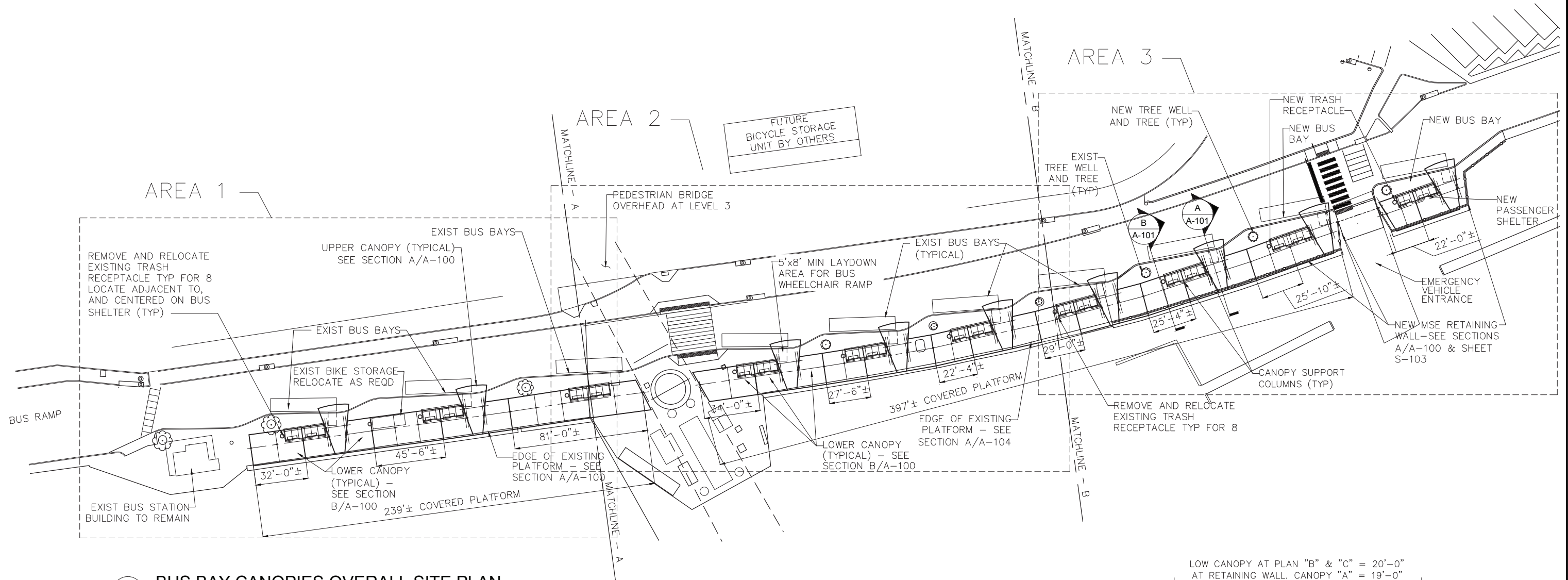
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WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS  
EROSION AND SEDIMENTATION CONTROL NOTES

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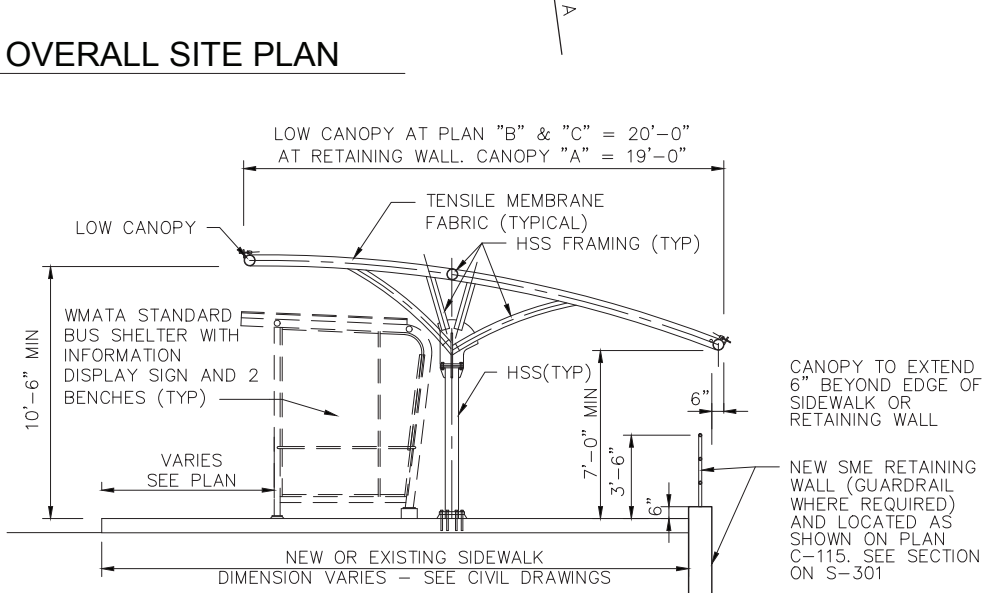
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J03-C-504

M-1273- 37

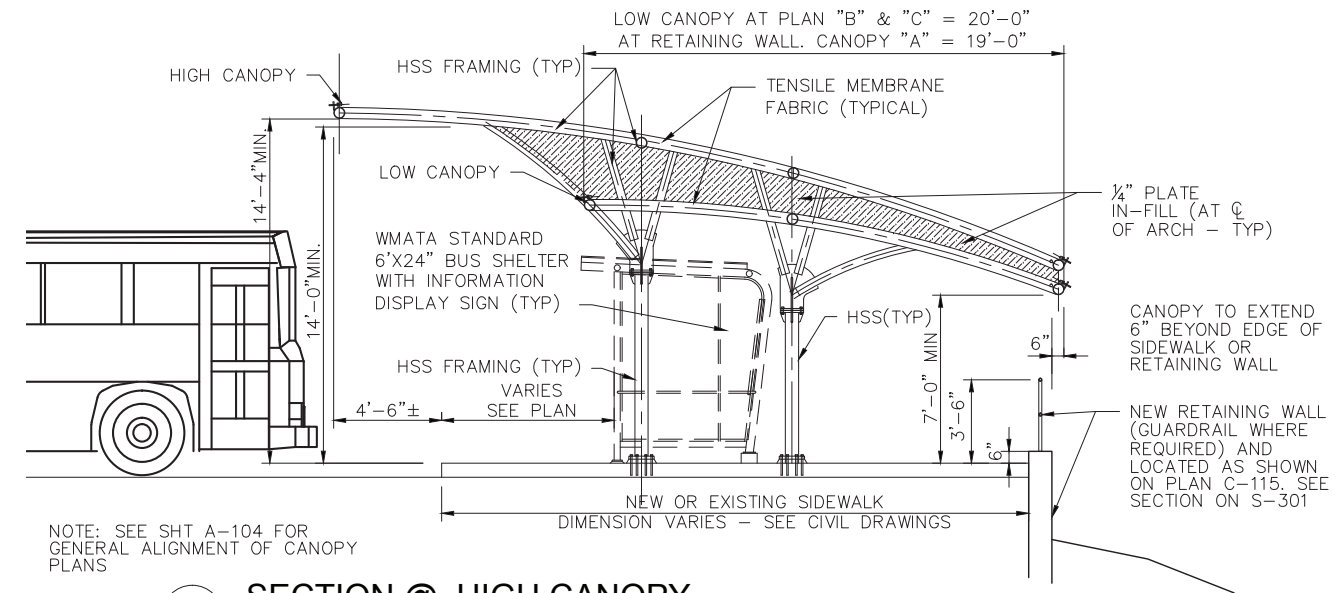


**1**  
A-100 **BUS BAY CANOPIES OVERALL SITE PLAN**  
SCALE: 1" = 30'

- TENSILE MEMBRANE STRUCTURE (AKA: CANOPY) NOTES:
1. TENSILE MEMBRANE STRUCTURE CONTRACTOR SHALL PROVIDE STRUCTURAL DESIGN, DETAILING, FABRICATION, SUPPLY AND INSTALLATION OF STRUCTURE PER SPECIFICATION SECTION 13120 ALL HSS FRAMING TO BE PAINTED.
  2. COORDINATE ALL SUPPORT COLUMN LOCATIONS WITH ALL TRADES AND EXISTING AND NEW UTILITIES. FIELD VERIFY ALL LOCATIONS.
  3. SEE SHEET A-104 FOR GENERAL LAYOUT AND ALIGNMENT OF TYPICAL CANOPY PLANS.
  4. NEW BUS BAY CANOPIES CONSIST OF A HIGH CANOPY, WHICH EXTENDS OVER THE LAYDOWN AREA FOR BUS WHEELCHAIR RAMP, AND A LOW CANOPY ON EITHER SIDE (WITH THE EXCEPTION OF CANOPY TYPE "D"), INFILL SPACES IN BETWEEN LOW CANOPIES OF TYPICAL PLANS WITH LOW CANOPY TO PROVIDE CONTINUOUS COVER. COLUMN BAY SPACING FOR THE IN-FILL CANOPIES SHALL NOT EXCEED 16'-0" UNLESS NOTE OTHERWISE.
  5. LOCATE NEW AND RELOCATED TRASH CANS ADJACENT TO AND CENTERED ON BUS SHELTERS PER DRAWINGS.
  6. SEE SHEETS C-103 THRU C-110 FOR EXISTING CONDITIONS OF BUS PLATFORM AREA.
  7. CANOPY STRUCTURE TO SLOPE WITH SITE GRADING.



**B**  
A-100 **SECTION @ LOW CANOPY**  
SCALE: 1/4" = 1'-0"



**A**  
A-100 **SECTION @ HIGH CANOPY**  
SCALE: 1/4" = 1'-0"

DESIGNED	D.D.M.	03-20-15
		DATE
DRAWN	D.D.M.	03-20-15
		DATE
CHECKED	J.G.B.	03-20-15
		DATE
APPROVED	G.P.M.	03-20-15
		DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION



**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
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OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

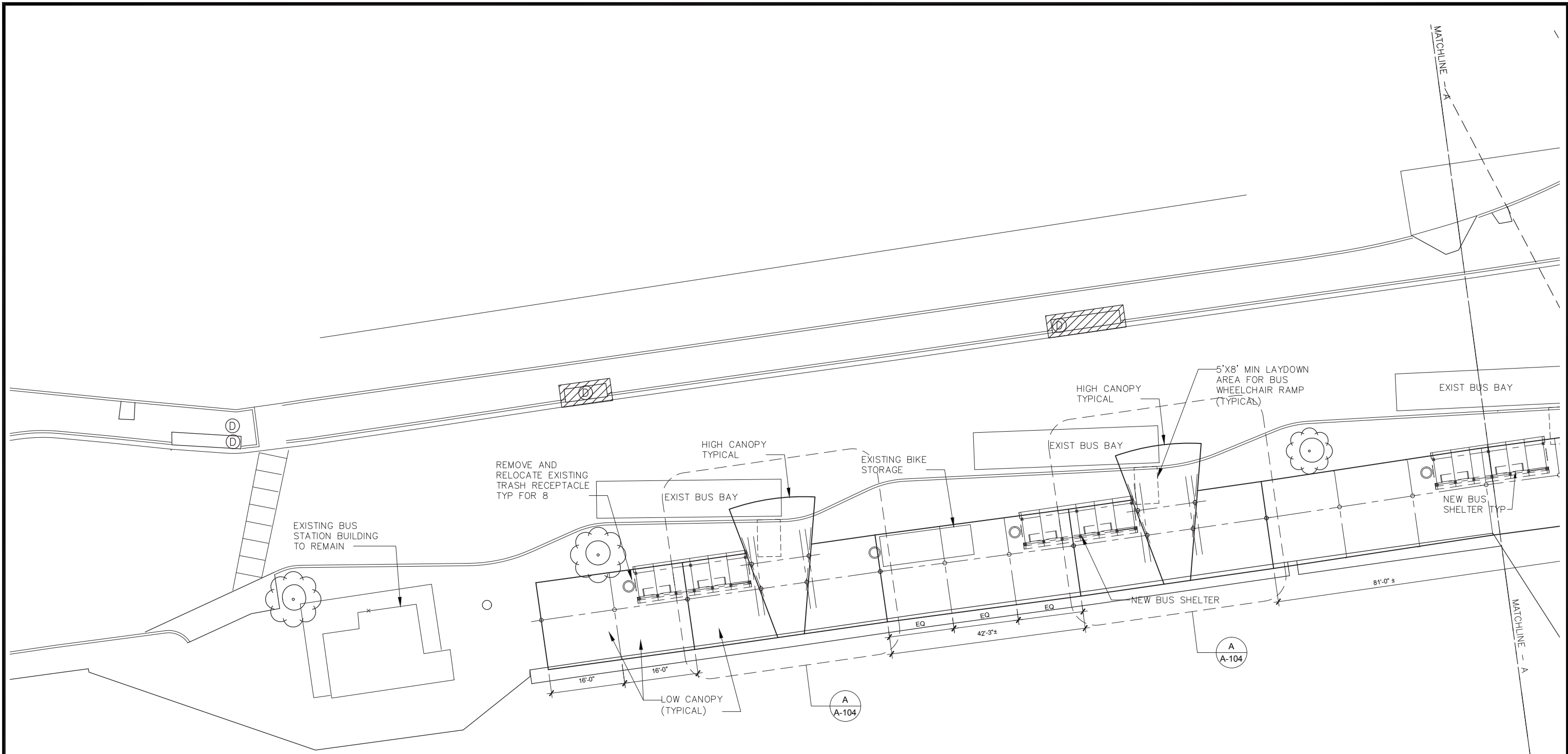
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
ARCHITECTURAL OVERALL CANOPY PLAN

CONTRACT NO. **FQ15155**

SCALE AS NOTED DRAWING NO. **J03-A-100** M-1273-38





1  
A-101

### CANOPY PLANS - AREA 1

SCALE: 3/32" = 1'-0"



CONTRACT NO.  
FQ15155

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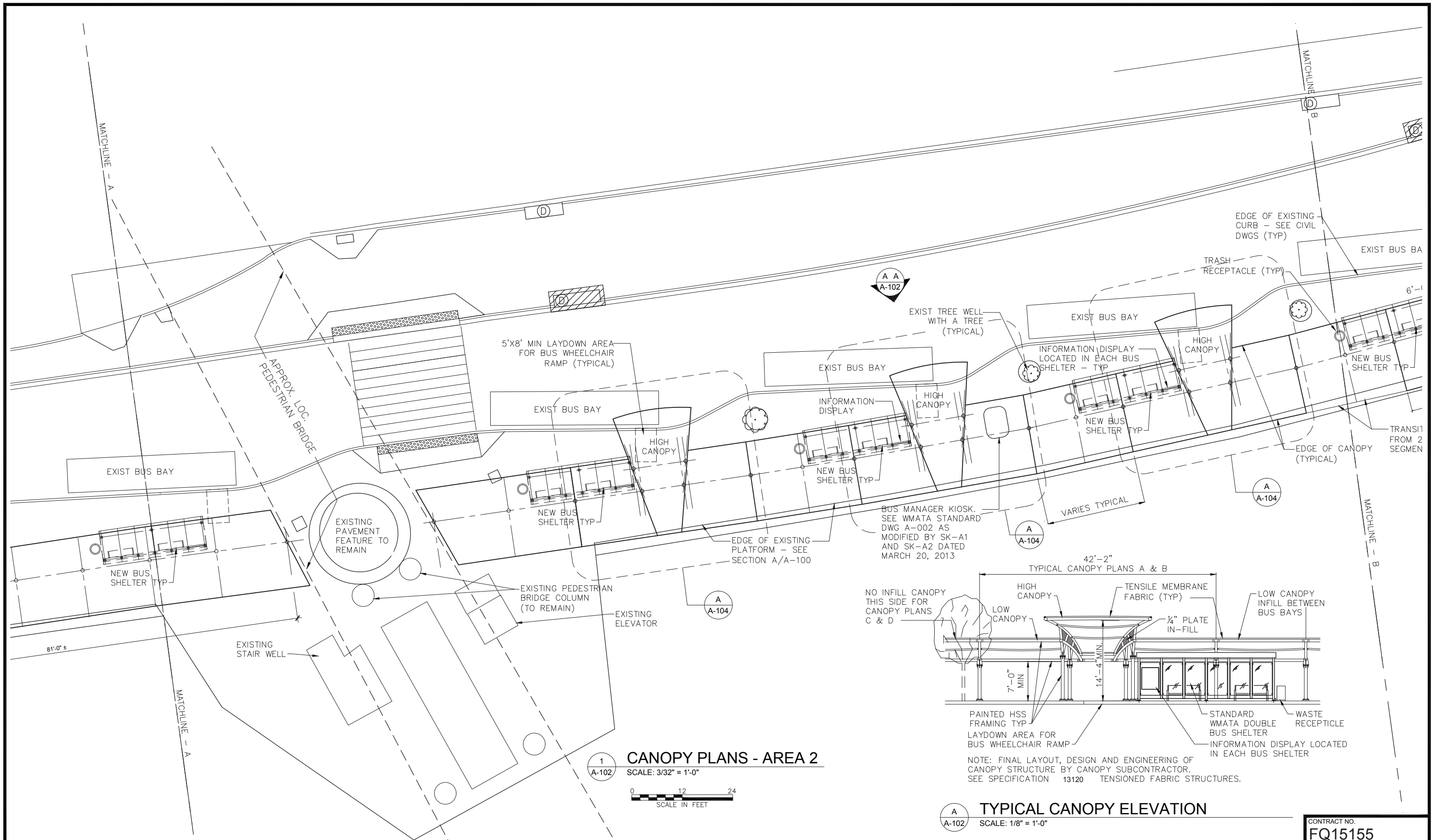
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
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 AND ENGINEERING SERVICES  
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

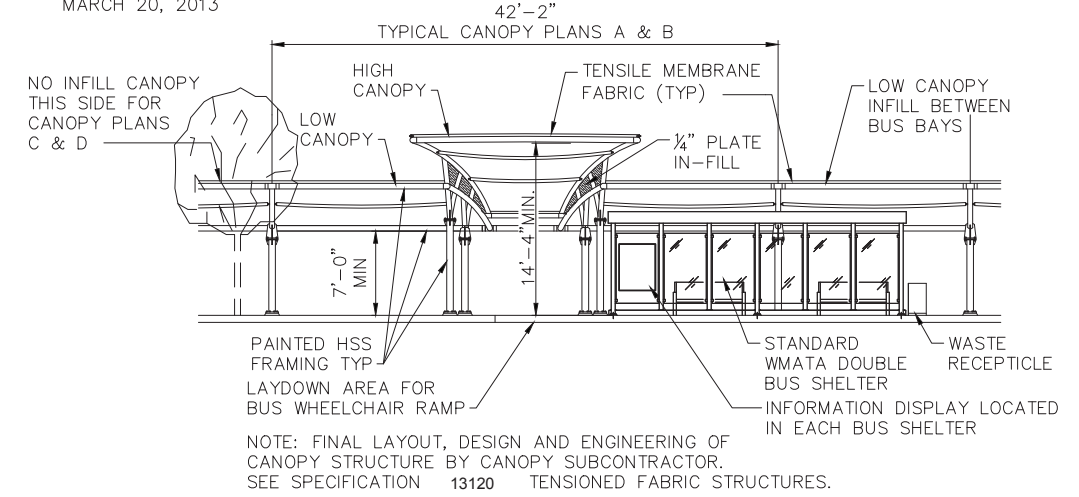
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 PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS  
 ARCHITECTURAL  
 CANOPY PLANS - AREA 1

SCALE: 3/32" = 1'-0"  
 DRAWING NO. J03-A-101  
 M-1273-39



**1 CANOPY PLANS - AREA 2**  
SCALE: 3/32" = 1'-0"



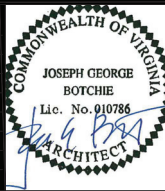
**A TYPICAL CANOPY ELEVATION**  
SCALE: 1/8" = 1'-0"

CONTRACT NO.  
**FQ15155**

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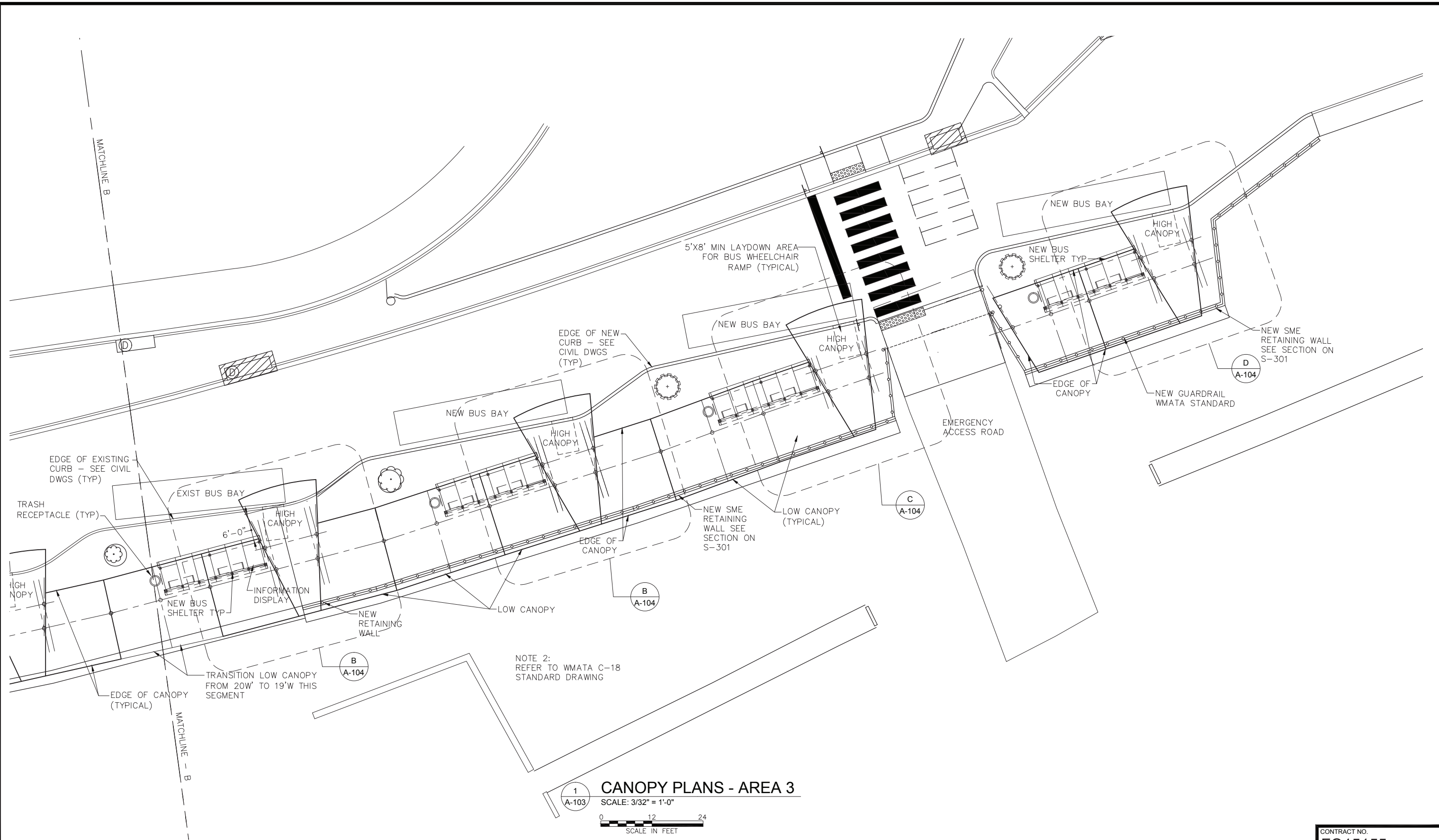
APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
ARCHITECTURAL  
CANOPY PLANS - AREA 2

SCALE: 3/32" = 1'-0"

DRAWING NO. J03-A-102

M-1273-40



1  
A-103

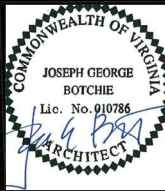
**CANOPY PLANS - AREA 3**  
SCALE: 3/32" = 1'-0"

SCALE IN FEET

DESIGNED D.D.M. 03-20-15  
DATE  
DRAWN D.D.M. 03-20-15  
DATE  
CHECKED J.G.B. 03-20-15  
DATE  
APPROVED G.P.M. 03-20-15  
DATE

REFERENCE DRAWINGS	
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**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
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**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

CONTRACT NO.  
**FQ15155**

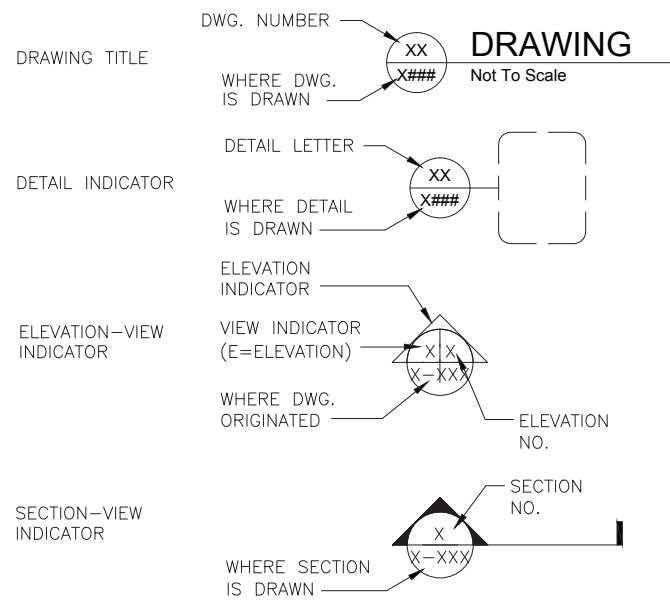
**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
ARCHITECTURAL  
CANOPY PLANS - AREA 3

SCALE  
3/32" = 1'-0"

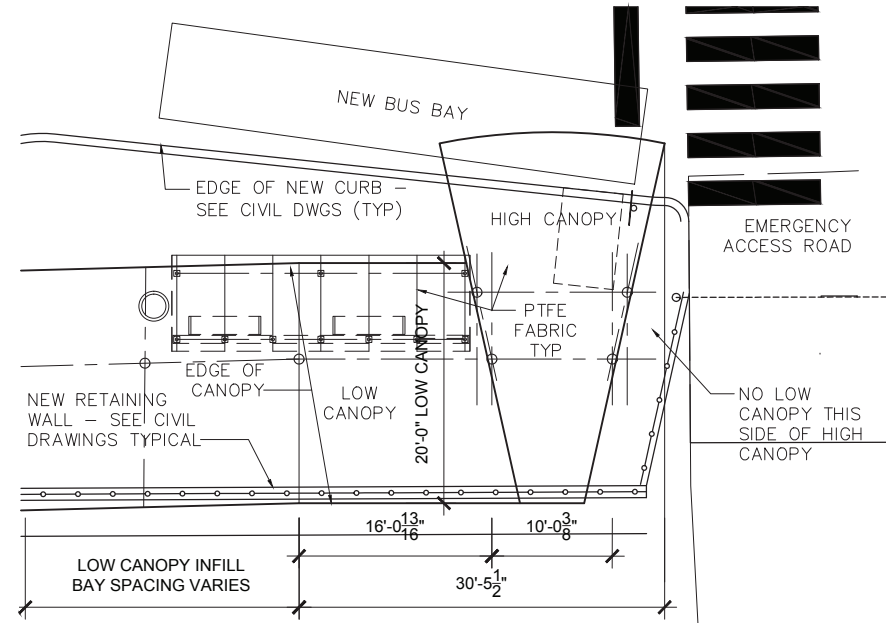
DRAWING NO.  
J03-A-103

M-1273- 41

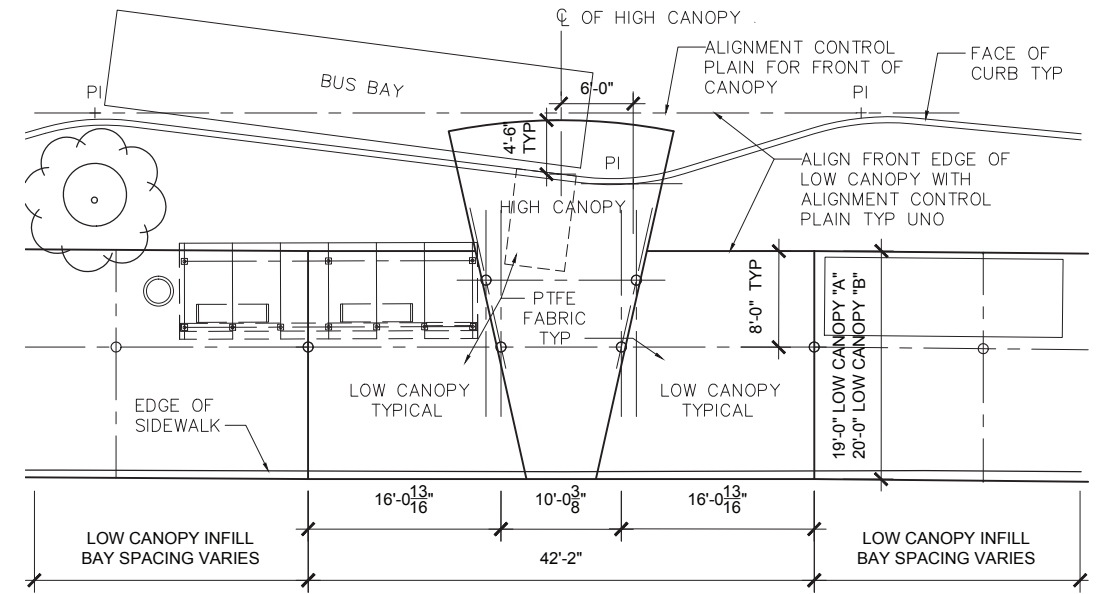
**SYMBOLS LEGEND**



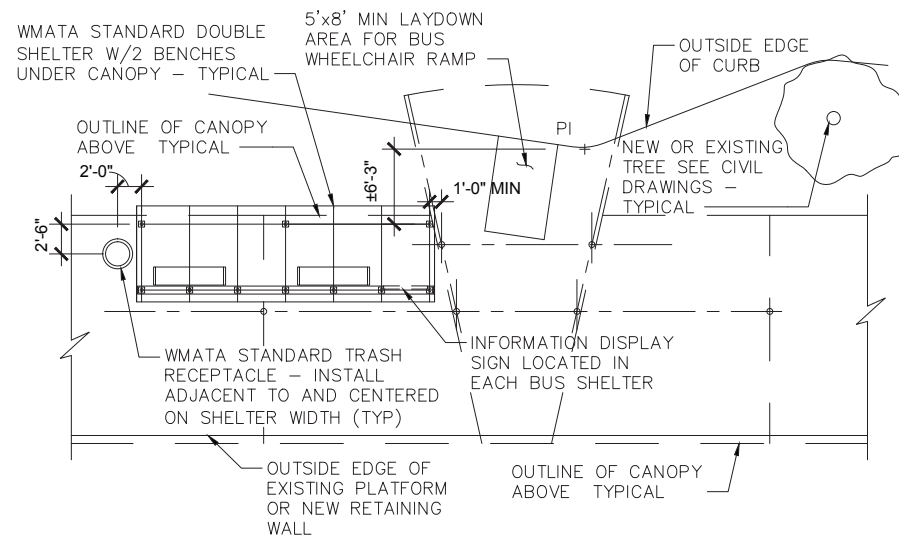
NOTE:  
SEE C-116 FOR POINT COORDINATE  
SCHEDULE FOR LOCATION OF CANOPY  
COLUMNS.



**A** ENLARGED CANOPY PLAN "C"  
A-103 SCALE: 1/8" = 1'-0"

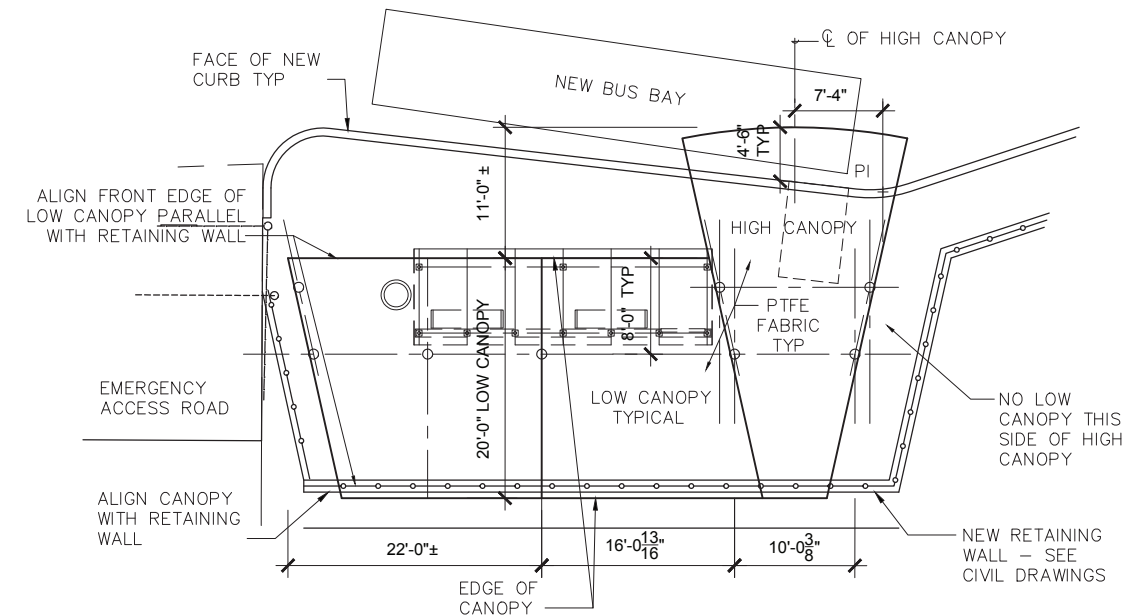


**A** ENLARGED CANOPY PLAN "A" & "B"  
A-101 SCALE: 1/8" = 1'-0"



NOTE:  
SEE BUS SHELTER COORDINATE TABLE FOR COORDINATE POINTS FOR  
BUS SHELTER PLACEMENT ON SHEET C-116. VERIFY EXISTING FIELD  
DIMENSIONS. ACTUAL PLACEMENT MAY VARY SLIGHTLY IN THE FIELD

**-** TYPICAL BUS SHELTER AND TRASH  
RECEPTACLE PLACEMENT PLAN  
A-103 SCALE: 1/8" = 1'-0"



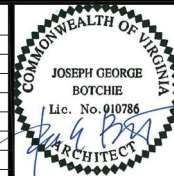
**D** ENLARGED CANOPY PLAN "D"  
A-103 SCALE: 1/8" = 1'-0"

CONTRACT NO.  
**FQ15155**

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**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**

DEPARTMENT OF TRANSIT INFRASTRUCTURE  
AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED \_\_\_\_\_



SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**

ARCHITECTURAL  
ENLARGED CANOPY PLANS

SCALE  
1/8" = 1'-0"

DRAWING NO.  
J03-A-104

M-1273-42

## GENERAL STRUCTURAL NOTES

### A. GENERAL

1. THE STRUCTURE IS DESIGNED TO ACT AS A STRUCTURAL UNIT UPON COMPLETION. DESIGN AND PROVIDE NECESSARY BRACING, TEMPORARY SUPPORTS, AND SHORING TO RESIST ALL FORCES TO WHICH THE STRUCTURE MAY BE SUBJECTED DURING CONSTRUCTION, INCLUDING LATERAL LOADS, EQUIPMENT, AND OPERATION OF THE SAME.
2. WORK SHALL BE COORDINATED WITH THE VARIOUS TRADES TO AVOID CONFLICT OF INTERFERENCE WITH REINFORCING STEEL OR STRUCTURAL STEEL MEMBERS.
3. THE LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE IDENTIFIED IN THE FIELD BEFORE CONSTRUCTION COMMENCES.
4. REPRODUCTION OF STRUCTURAL CONTRACT DRAWINGS FOR USE AS SHOP DRAWINGS IS STRICTLY PROHIBITED. SHOP DRAWINGS WHICH ARE PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED WITHOUT REVIEW.
5. VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO STARTING WORK. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING THE CONSTRUCTION OF NEW STRUCTURE TO AVOID DAMAGE TO EXISTING STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL MEANS AND METHODS REQUIRED FOR FACILITATING CONSTRUCTION OF THE WORK AND FOR ENSURING THE SAFETY, STABILITY AND INTEGRITY OF ADJACENT STRUCTURES AND FACILITIES.
7. DETAILS, SECTIONS AND NOTES SHOWN ON THESE DRAWINGS ARE INTENDED TO BE TYPICAL, AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE UNLESS NOTED OTHERWISE.

### B. DESIGN CRITERIA

1. BUILDING CODE ----- 2012 COMMONWEALTH OF VIRGINIA CONSTRUCTION CODE
2. RISK CATEGORY ----- II
3. DESIGN LIVE LOADS
  - A. FLOOR LOADS
    - a. SIDEWALK ----- 100 PSF
    - B. ROOF LIVE LOAD ----- 20 PSF
4. DESIGN OTHER LOADS
  - A. SNOW LOAD
    - a. GROUND SNOW LOAD ----- 25 PSF AND DRIFT
    - b. FLAT ROOF SNOW LOAD ----- 21 PSF
    - c. EXPOSURE CATEGORY ----- C
    - d. SNOW EXPOSURE FACTOR ----- 1.0
    - e. THERMAL FACTOR ----- 1.2
    - f. SNOW IMPORTANCE FACTOR ----- 1.0
  - B. WIND DESIGN DATA
    - a. BASIC WIND SPEED ( $V_{ASD}^{ULT}$ ) ----- 115 MPH  
( $V_{ASD}$ ) ----- 90 MPH
    - b. EXPOSURE CATEGORY ----- C
    - c. INTERNAL PRESSURE COEFFICIENT ----- OPEN BUILDING
  - C. SEISMIC DESIGN DATA
    - a. IMPORTANCE FACTOR ----- 1.0
    - b. MAPPED SPECTRAL RESPONSE ( $S_1$ ) ----- 0.154g
    - c. MAPPED SPECTRAL RESPONSE ( $S_2$ ) ----- 0.051g
    - d. SPECTRAL RESPONSE ( $S_{D1}^{DS}$ ) ----- 0.165g
    - e. SPECTRAL RESPONSE ( $S_{D1}$ ) ----- 0.081g
    - f. SEISMIC DESIGN CATEGORY ----- B
    - g. SITE CLASS ----- D
    - h. SEISMIC SYSTEM: STEEL ORDINARY CANTILEVERED COLUMN SYSTEM
    - i. RESPONSE MODIFICATION FACTOR ----- 1.25
    - j. DEFLECTION AMPLIFICATION FACTOR ----- 1.25
    - k. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
5. DESIGN DEAD LOADS
  - D. SELF WEIGHT OF MATERIALS
  - E. SUPERIMPOSED DEAD LOADS
    - a. COLLATERAL LOAD ----- 5 PSF

### C. CONCRETE

1. ALL CONCRETE FOR STRUCTURES SHALL BE AIR ENTRAINED CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4000 POUNDS PER SQUARE INCH AT 28 DAYS (CLASS 4000) EXCEPT AS NOTED.
2. REINFORCEMENT BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60, DEFORMED.
3. WELDED WIRE REINFORCING SHALL CONFORM TO ASTM A185.
4. REINFORCED CONCRETE DESIGN IS IN CONFORMANCE WITH "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-11)
5. DETAIL, FABRICATE AND ERECT REINFORCEMENT BARS, INCLUDING BAR SUPPORTS, SPACERS ETC. IN ACCORDANCE WITH "ACI DETAILING MANUAL - 2004 (SP-66(04)).
6. UNLESS SHOWN OTHERWISE, BARS AT SPLICES SHALL BE LAPPED IN ACCORDANCE WITH THE TABLE "REINFORCING STEEL LAP SPLICES AND EMBEDMENTS" SHOWN ON THIS SHEET.
7. WELDED WIRE REINFORCING SHALL BE LAPPED AT LEAST ONE FULL PANEL (8 INCHES MINIMUM OVERLAP). TIE PANELS SECURELY. CROSS TIES SHALL BE SEPARATED BY 2 INCHES MINIMUM.
8. DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING STEEL, UNLESS SHOWN OTHERWISE ON DRAWINGS.
9. ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS IN ACCORDANCE WITH TYPICAL DETAILS UNLESS NOTED OTHERWISE. SEE DRAWING JO3-S-002.
10. CONCRETE COVER FOR REINFORCEMENT BARS SHALL CONFORM TO THE FOLLOWING, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
 

A. UNFORMED SURFACES IN CONTACT WITH GROUND -----	3 INCHES
B. FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER, AND ALL WALLS -----	2 INCHES
C. COLUMNS, PIERS -----	2 INCHES
D. EXTERIOR EXPOSURE, TOP OF SLABS -----	1-1/2 INCHES
11. CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH X 3/4 INCH UNLESS NOTED OTHERWISE.
12. CONCRETE WORK SHALL BE COORDINATED WITH ALL ARCHITECTURAL, CIVIL AND ELECTRICAL WORK, AND VERIFY INSTALLATION AND LOCATIONS OF ALL EMBEDDED ITEMS INCLUDING BUT NOT LIMITED TO INSERTS, ANCHOR BOLTS, DOWELS, BLOCKOUTS, AND EMBEDDED CONDUIT PRIOR TO CONCRETE PLACEMENT.
13. REINFORCEMENT SHALL NOT BE WELDED UNLESS NOTED OTHERWISE.

### D. STRUCTURAL STEEL (CANOPY SYSTEM)



1. PLATES, BARS, AND ANGLES SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
2. HOLLOW STRUCTURAL SECTION RECTANGULAR/SQUARE/ROUND MEMBERS SHALL CONFORM TO ASTM A500, GRADE B.
3. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC 360-10, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AND AISC 303-10 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES". AISC PROVISIONS FOR ALLOWABLE STRENGTH DESIGN (ASD) SHALL BE USED TO DESIGN AND DETAIL ALL CONNECTIONS.
4. EXPOSED STRUCTURAL STEEL SHALL BE FABRICATED AND INSTALLED PER THE "ARCHITECTURALLY EXPOSED STRUCTURAL STEEL" SECTION OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
5. ALL WELD SIZES, NOT INDICATED OR THOSE TO BE DESIGNED FOR MEMBER LOADS GIVEN ON THE DRAWINGS, SHALL COMPLY WITH THE LATEST A.W.S. D1.1 BUT IN NO CASE SHALL WELD SIZE BE LESS THAN 3/16 INCH.
6. ALL STEEL ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 55 UNLESS NOTED OTHERWISE.
7. USE NON-SHRINK, NON-METALLIC GROUT UNDER BASE PLATES.
8. ADEQUATE TEMPORARY BRACING SHALL BE PROVIDED DURING CONSTRUCTION.
9. PAINT AS PER SPECIFICATIONS UNLESS NOTED OTHERWISE.

### REINFORCING STEEL LAP SPLICES AND EMBEDMENTS

BAR SIZE	MINIMUM LAP SPLICE LENGTH (INCHES)				MINIMUM EMBEDMENT LENGTH (INCHES)			
	TOP BARS		OTHER BARS		TOP BARS		OTHER BARS	
CLEAR COVER	< 2"	≥ 2"	< 2"	≥ 2"	< 2"	≥ 2"	< 2"	≥ 2"
3	15	15	12	12	12	12	12	12
4	20	20	15	15	15	15	12	12
5	29	25	23	19	23	19	17	15
6	40	29	31	23	31	23	24	18
7	65	43	50	33	50	33	38	25
8	81	49	62	37	62	37	48	29
9	98	60	76	46	76	46	58	36
10	119	74	92	57	92	57	71	44
11	141	89	108	68	108	68	83	53

#### NOTES:

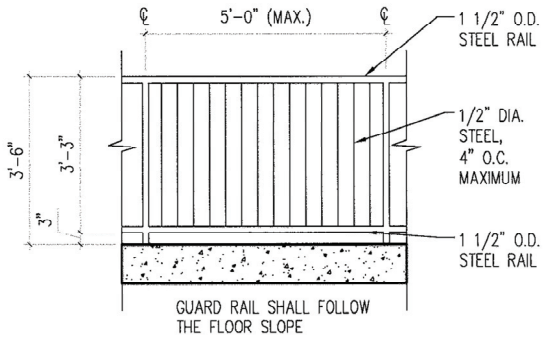
1. TABLE BASED ON ACI 318-11 WITH F'C = 4,000 PSI AND FY = 60,000 PSI.
2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THE REINFORCEMENT.
3. HORIZONTAL WALL REINFORCEMENT IS CONSIDERED A TOP BAR.
4. CLEAR COVER = CONCRETE COVER FOR REINFORCEMENT BARS.

DESIGNED <u>M.C.P.</u> 3-20-15 DATE DRAWN <u>D.S.D.</u> 3-20-15 DATE CHECKED <u>G.D.G.</u> 3-20-15 DATE APPROVED <u>V.C.</u> 3-20-15 DATE	<b>REFERENCE DRAWINGS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	NUMBER	DESCRIPTION							<b>REVISIONS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	BY	DESCRIPTION											<b>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</b> DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM APPROVED _____	 SUBMITTED _____ PROJECT MANAGER	CONTRACT NO. <b>FQ15155</b>	<b>WMATA FRANCONIA SPRINGFIELD                  METRO STATION IMPROVEMENTS</b> STRUCTURAL GENERAL NOTES SCALE AS SHOWN DRAWING NO. <b>J03-S-001</b> M-1273- 43
NUMBER	DESCRIPTION																										
DATE	BY	DESCRIPTION																									

**GENERAL STRUCTURAL NOTES**

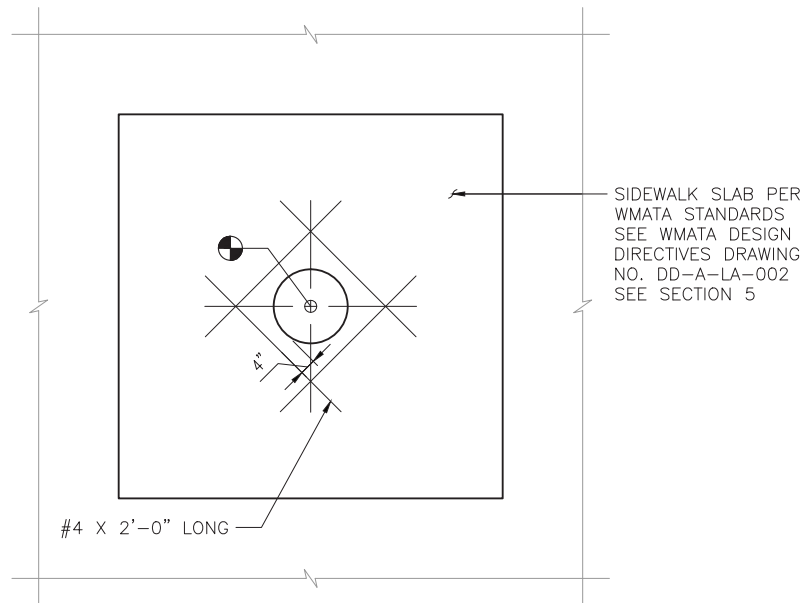
**E. FOUNDATIONS**

1. A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THE PROJECT: GEOTECHNICAL REPORT FOR WMATA SPRINGFIELD – FRANCONIA BUS CANOPY PROJECT BY HSA, INC. PROJECT NO. 11-103W, DATED OCTOBER 2014.
2. ALL SPREAD FOOTING FOUNDATIONS HAVE BEEN DESIGNED FOR AN ASSUMED ALLOWABLE BEARING PRESSURE OF 3000 PSF.
3. AUGER CAST PILES HAVE BEEN DESIGNED USING THE GEOTECHNICAL REPORT BY HSA, INC.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE SERVICES OF A PROFESSIONAL GEOTECHNICAL ENGINEER FOR FIELD VERIFICATION OF THE MSE WALL, AUGER CAST PILE CONSTRUCTION AND THE SPREAD FOOTING CONSTRUCTION. SHOULD THE VALUE BE LESS THAN THE VALUES ASSUMED, CONTACT THE PROFESSIONAL IMMEDIATELY.
5. ALL SPREAD AND STRIP FOOTING BEARING SURFACES UPON WHICH FOUNDATIONS ARE TO BE CONSTRUCTED ARE TO BE EXAMINED AND APPROVED BY A PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FOUNDATION CONCRETE. UNACCEPTABLE MATERIAL IS TO BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIAL (SEE EXCAVATION AND BACKFILL SPECIFICATION).
6. PROVIDE EXCAVATION SUPPORT MEASURES SUFFICIENT TO PROTECT ADJACENT FACILITIES FROM DETRIMENTAL MOVEMENT. DESIGN, INSTALL, AND MONITOR SUPPORT MEASURES.
7. PROVIDE SUFFICIENT DEWATERING MEASURES TO ALLOW ALL WORK TO PROCEED IN THE DRY. MAINTAIN GROUNDWATER LEVELS AT LEAST 2 FEET BELOW WORKING SUBGRADE.
8. AUGER CAST PILES SHALL BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS PRIOR TO THE INSTALLATION OF PILE CAPS. SEE SPECIFICATION SECTION 02830 FOR TESTING REQUIREMENTS.
9. BACKFILL BEHIND THE RETAINING WALL IS TO BE CLEAN GRANULAR MATERIAL PER THE GEOTECHNICAL REPORT RECOMMENDATIONS AND THE MSE WALL SUPPLIER.
10. ALL STRUCTURAL FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND WITHIN TWO PERCENT OPTIMUM MOISTURE FOR COMPACTION. THE FILL SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY WITHIN TWO PERCENT OF THE OPTIMUM MOISTURE CONTENT PER ASTM D-1557.
11. THE TOP 18" OF THE BACK FILL AT TOP OF THE MSE WALLS IS TO INCLUDE AN IMPERVIOUS MATERIAL TO MINIMIZE THE INTRUSION OF WATER. MSE WALL SUPPLIER TO PROVIDE FINAL SUBSURFACE PROFILE AND COMPACTION PLAN.
12. FOUNDATION SYSTEMS WERE DESIGNED BASED ON THE LAYOUT AND CONFIGURATION OF THE CANOPY SYSTEM SHOWN ON THE ARCHITECTURAL/CIVIL DRAWINGS AND THE STRUCTURAL DESIGN CRITERIA INDICATED ON THE STRUCTURAL DRAWINGS. THE CANOPY SYSTEM SUPPLIER/FABRICATOR MUST PROVIDE SHOP DRAWINGS WITH COLUMN REACTIONS USING THE STRUCTURAL DESIGN CRITERIA AND CANOPY SYSTEM REQUIREMENTS TO THE ENGINEER TO VERIFY FOUNDATION DESIGN PRIOR TO FOUNDATION SHOP DRAWING PREPARATION. THE CANOPY COLUMN REACTIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA.
13. MSE WALL DESIGN AND DETAILING IS TO BE PROVIDED BY THE MSE WALL SUPPLIER. ALL CALCULATIONS (INCLUDING GLOBAL STABILITY) ARE REQUIRED TO BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION. MSE WALL SUPPLIER IS TO SEE SPECIFICATION 02830 MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALLS FOR DESIGN CRITERIA, RESPONSIBILITIES AND SUBMISSION REQUIREMENTS. THE CONTRACTOR IS TO COORDINATE THE INSTALLATION OF THE MSE WALL WITH OTHER FOUNDATION SYSTEMS ADJACENT TO THE MSE WALL CONSTRUCTION.
14. COMPACT SUBGRADE UNDER SPREAD FOOTING FOUNDATIONS.
15. PROOFROLL OR COMPACT ALL SIDEWALK SUBGRADES IN ACCORDANCE WITH THE SPECIFICATIONS. THE PROFESSIONAL GEOTECHNICAL ENGINEER WILL OBSERVE COMPACTION, AND DETERMINE THE SUITABILITY OF THE SUBGRADE MATERIALS. REMOVE UNSUITABLE MATERIALS AND REPLACE WITH APPROVED MATERIAL BENEATH SIDEWALK SLABS.



**HIGH GUARD RAIL DETAIL**

SCALE: 1/2" = 1'-0"



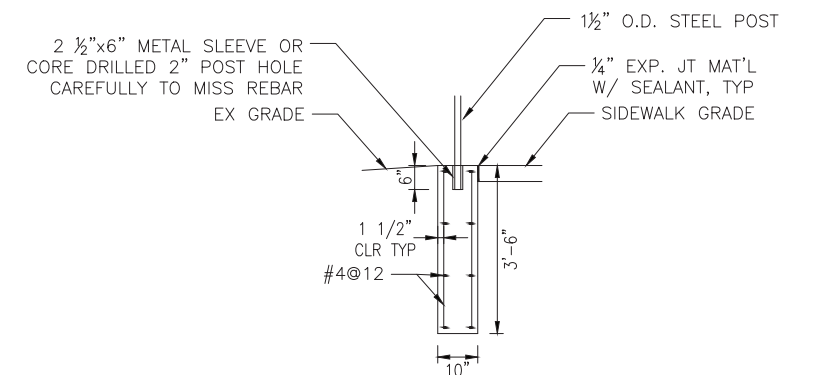
**DEMOLITION SIDEWALK SLAB - PARTIAL PLAN**

SCALE: 1/2" = 1'-0"

1. USE FOR TYPE A CANOPY FOUNDATION.
2. FINAL SAWCUT AND REPLACEMENT TO BE DETERMINED BY DRILLED SHAFT CONTRACTOR AND APPROVED BY WMATA.
3. CORE HOLES AT CORNER OF DEMOLITION TO PREVENT SAW CUT OVERRUNS AT EXISTING SLAB. CAREFULLY CUT EXISTING SLAB TO PREVENT DAMAGE TO EXISTING SLAB TO REMAIN.
4. ALIGN SAW CUT WITH EXISTING SIDEWALK JOINT PATTERN.

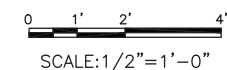
**ABBREVIATIONS**

ADDL	ADDITIONAL	HSS	HOLLOW STRUCTURAL SECTION
ALT	ALTERNATE	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
AL	ALUMINUM	ID	INSIDE DIAMETER
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIAL	IF	INSIDE FACE
APPROX	APPROXIMATELY	INT	INTERIOR
ARCH	ARCHITECTURAL	INV	INVERT
B/B	BACK TO BACK	JT	JOINT
BETW	BETWEEN	K	KIPS
BM	BEAM	LAND	LANDING
BRG	BEARING	LG	LONG
BOT	BOTTOM	LLH	LONG LEG HORIZONTAL
CANT	CANTILEVER	LLV	LONG LEG VERTICAL
C/C	CENTER TO CENTER	LPT	LOW POINT
CHKD	CHECKERED	MRF	MANUFACTURER
CJR	CIRCULAR	MATL	MATERIAL
CL	CENTERLINE	MAX	MAXIMUM
CLR	CLEAR	MECH	MECHANICAL
COL	COLUMN	MTL	METAL
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	NO OR #	NUMBER
CONSTR	CONSTRUCTION	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	OC	ON CENTER
CONTR	CONTRACTION	OH	OPPOSITE HAND
COORD	COORDINATE	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
DEP	DEPRESSION	OF	OUTSIDE FACE
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PROJ	PROJECTION
DN	DOWN	PSF	POUNDS PER SQUARE FOOT
DWGS	DRAWINGS	PSI	POUNDS PER SQUARE INCH
EA	EACH	PVC	POLYVINYL CHLORIDE
EF	EACH FACE	R	RADIUS
EL OR ELEV	ELEVATION	REINF	REINFORCEMENT
ELECT	ELECTRICAL	REQD	REQUIRED
EMBED	EMBEDMENT	SF	SQUARE FOOT (FEET)
EOD	EDGE OF DECK	SH	SHEET
EOS	EDGE OF SLAB	SIM	SIMILAR
EQ	EQUAL	SOG	SLAB ON GRADE
EQUIP	EQUIPMENT	SPA	SPACE
EX OR EXIST	EXISTING	SQ	SQUARE
EXP	EXPANSION	SS	STAINLESS STEEL
EXT	EXTERIOR	STIFF	STIFFENER
EW	EACH WAY	STL	STEEL
FRP	FIBERGLASS REINFORCED PLASTIC	SYMM	SYMMETRICAL
FT	FOOT (FEET)	T/	TOP OF
FTG	FOOTING	TOS	TOP OF STEEL OR TOP OF SLAB
GALV	GALVANIZED	THIK	THICK
H	HIGH	TYP	TYPICAL
HCA	HEADED CONCRETE ANCHOR	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL	WWR	WELDED WIRE REINFORCEMENT
HPT	HIGH POINT	W	WIDE
HSS	HOLLOW STRUCTURAL SECTION	WF	WIDE FLANGE
		W/	WITH
		WP	WORK POINT
		VERT	VERTICAL



**TYPICAL POST EMBED DETAIL**

SCALE: 1/2" = 1'-0"



CONTRACT NO.  
**FQ15155**

DESIGNED	M.C.P.	3-20-15
DRAWN	D.S.D.	3-20-15
CHECKED	G.D.G.	3-20-15
APPROVED	V.C.	3-20-15

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS	
DATE	DESCRIPTION



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DEPARTMENT OF TRANSIT INFRASTRUCTURE  
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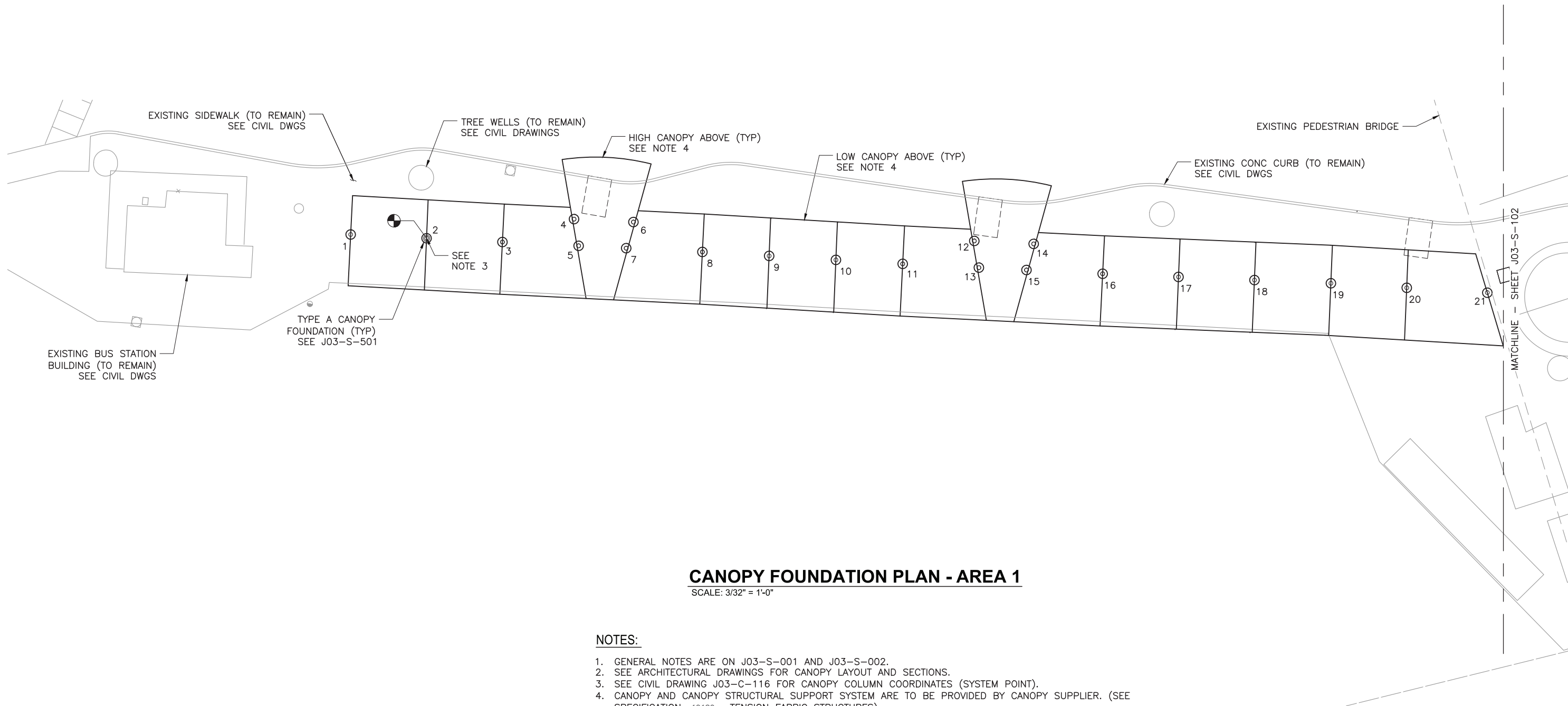
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
STRUCTURAL  
GENERAL NOTES

SCALE  
AS SHOWN

DRAWING NO.  
**J03-S-002**

M-1273- 44

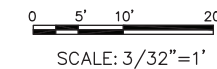


**CANOPY FOUNDATION PLAN - AREA 1**

SCALE: 3/32" = 1'-0"

**NOTES:**

1. GENERAL NOTES ARE ON J03-S-001 AND J03-S-002.
2. SEE ARCHITECTURAL DRAWINGS FOR CANOPY LAYOUT AND SECTIONS.
3. SEE CIVIL DRAWING J03-C-116 FOR CANOPY COLUMN COORDINATES (SYSTEM POINT).
4. CANOPY AND CANOPY STRUCTURAL SUPPORT SYSTEM ARE TO BE PROVIDED BY CANOPY SUPPLIER. (SEE SPECIFICATION 13120 TENSION FABRIC STRUCTURES).
5. SEE CIVIL DRAWINGS FOR PHASING PLAN.



CONTRACT NO.  
**FQ15155**

DESIGNED	M.C.P.	3-20-15 DATE	REFERENCE DRAWINGS		REVISIONS			
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
DRAWN	D.S.D.	3-20-15 DATE						
CHECKED	G.D.G.	3-20-15 DATE						
APPROVED	V.C.	3-20-15 DATE						



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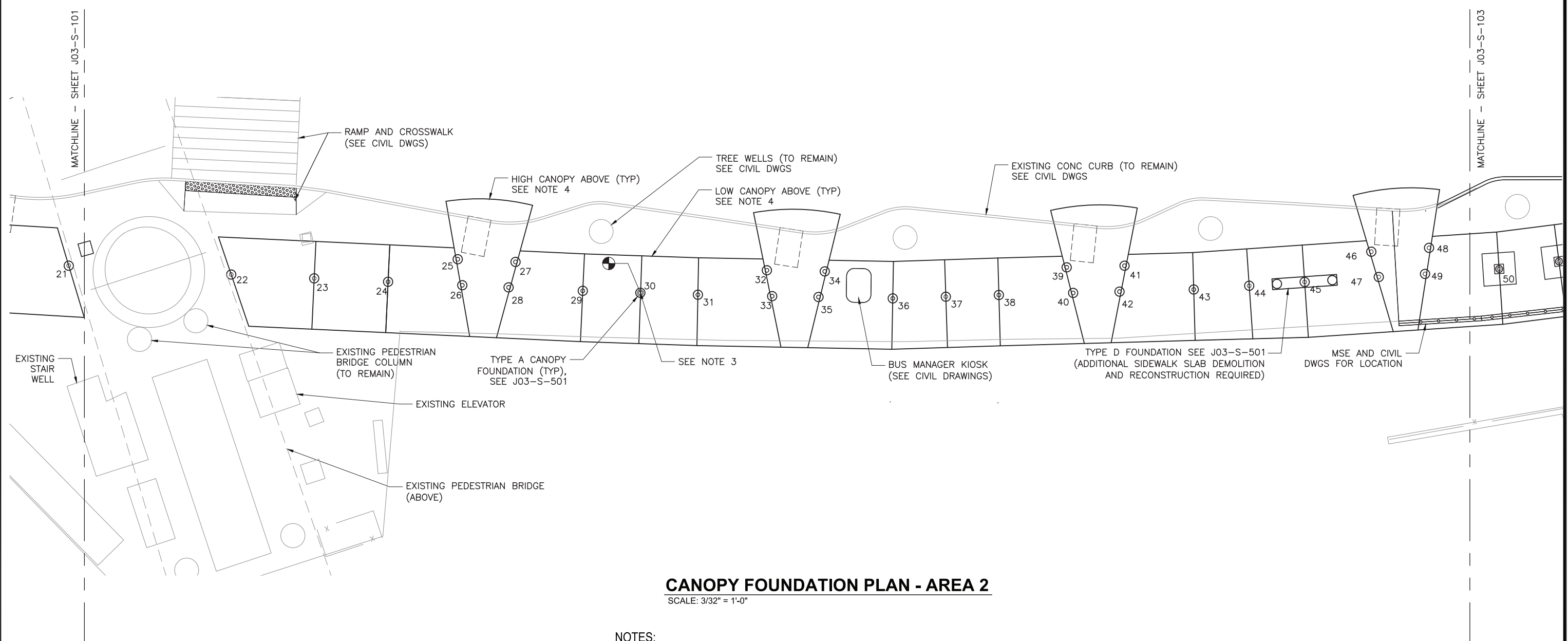
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
STRUCTURAL  
CANOPY FOUNDATION PLAN - AREA 1

SCALE  
AS SHOWN

DRAWING NO.  
**J03-S-101**

M-1273- 45

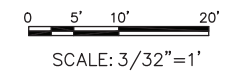


**CANOPY FOUNDATION PLAN - AREA 2**

SCALE: 3/32" = 1'-0"

**NOTES:**

1. GENERAL NOTES ARE ON J03-S-101 AND J03-S-102.
2. SEE ARCHITECTURAL DRAWINGS FOR CANOPY LAYOUT AND SECTIONS.
3. SEE CIVIL DRAWING J03-C-116 FOR CANOPY COLUMN COORDINATES (SYSTEM POINT).
4. CANOPY AND CANOPY STRUCTURAL STEEL SUPPORT SYSTEM ARE TO BE PROVIDED BY CANOPY SUPPLIER.  
(SEE SPECIFICATION 13120 TENSION FABRIC STRUCTURES).
5. SEE CIVIL DRAWINGS FOR PHASING PLAN.



CONTRACT NO.  
**FQ15155**

DESIGNED M.C.P. 3-20-15  
DATE  
DRAWN D.S.D. 3-20-15  
DATE  
CHECKED G.D.G. 3-20-15  
DATE  
APPROVED V.C. 3-20-15  
DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS		
DATE	BY	DESCRIPTION



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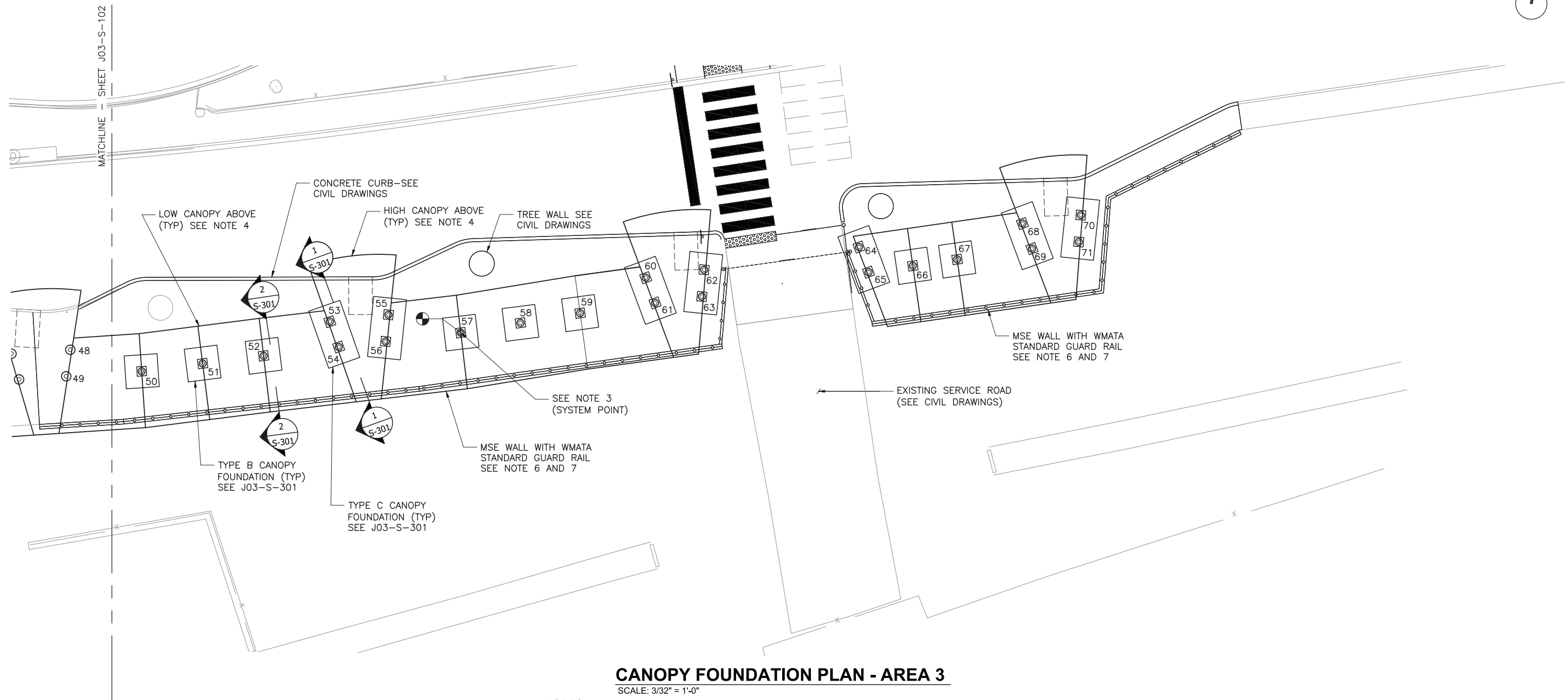
**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
STRUCTURAL  
CANOPY FOUNDATION PLAN - AREA 2

SCALE AS SHOWN DRAWING NO. **J03-S-102** M-1273- 46





**CANOPY FOUNDATION PLAN - AREA 3**

SCALE: 3/32" = 1'-0"

**NOTES:**

1. GENERAL NOTES ARE ON J03-S-001 AND J03-S-002.
2. SEE ARCHITECTURAL DRAWINGS FOR CANOPY LAYOUT AND SECTIONS.
3. SEE CIVIL DRAWING J03-C-116 FOR CANOPY COLUMN COORDINATES (SYSTEM POINT).
4. CANOPY AND CANOPY STRUCTURAL SUPPORT SYSTEM ARE TO BE PROVIDED BY CANOPY SUPPLIER. (SEE SPECIFICATION 13120 TENSION FABRIC STRUCTURES).
5. SEE CIVIL DRAWINGS FOR PHASING PLAN.
6. MECHANICALLY STABILIZED EARTH WALL (MSE WALL) TO BE PROVIDED BY MSE WALL SUPPLIER (SEE SPECIFICATION 02830 MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL).
7. SEE CIVIL DRAWINGS FOR MSE WALL EXTENTS.

0 5' 10' 20'  
SCALE: 3/32"=1'

CONTRACT NO.  
**FQ15155**

DESIGNED M.C.P. 3-20-15  
DATE  
DRAWN D.S.D. 3-20-15  
DATE  
CHECKED G.D.G. 3-20-15  
DATE  
APPROVED V.C. 3-20-15  
DATE

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY

REVISIONS	
DATE	DESCRIPTION



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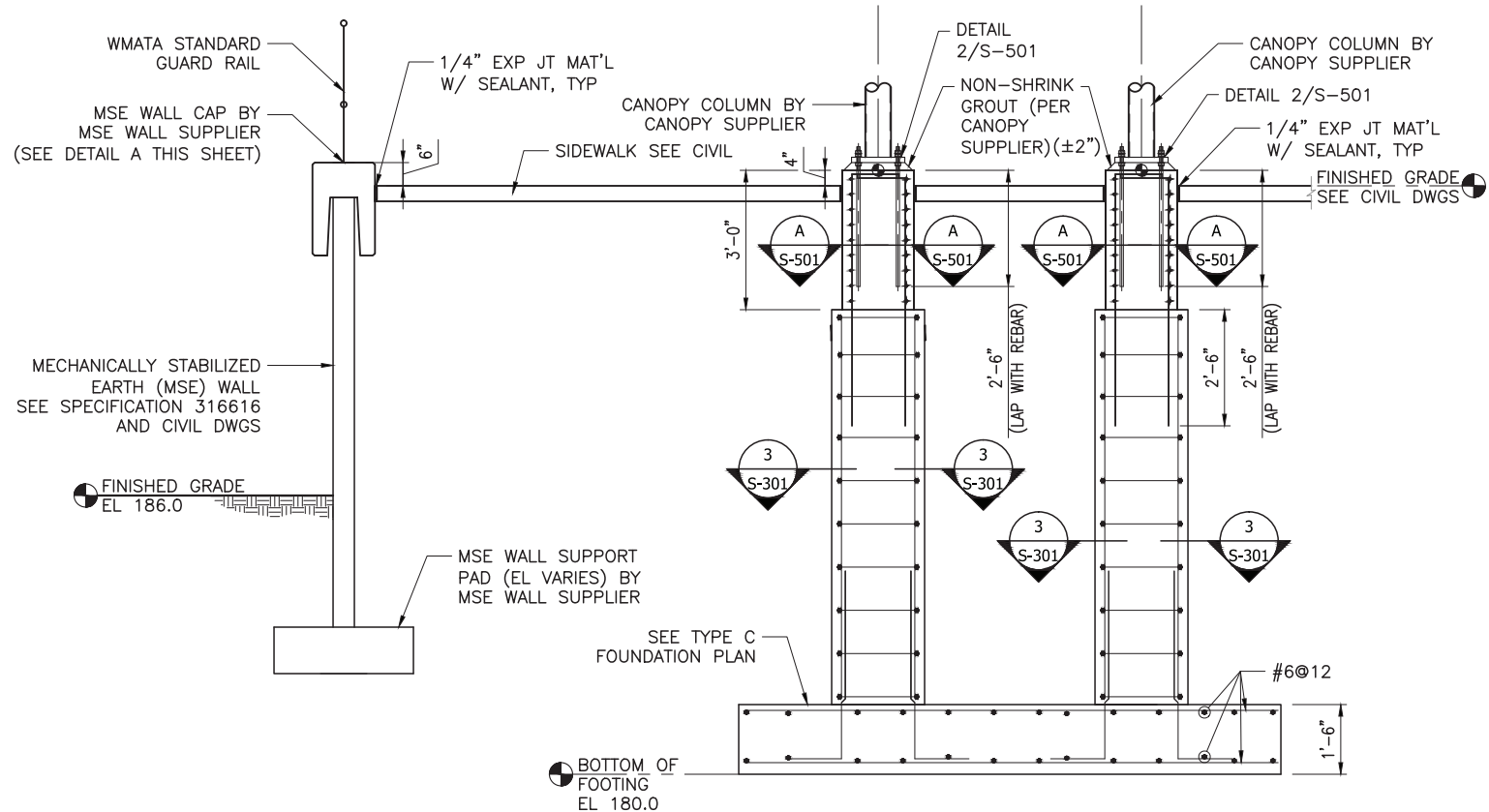
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
STRUCTURAL  
CANOPY FOUNDATION PLAN - AREA 3

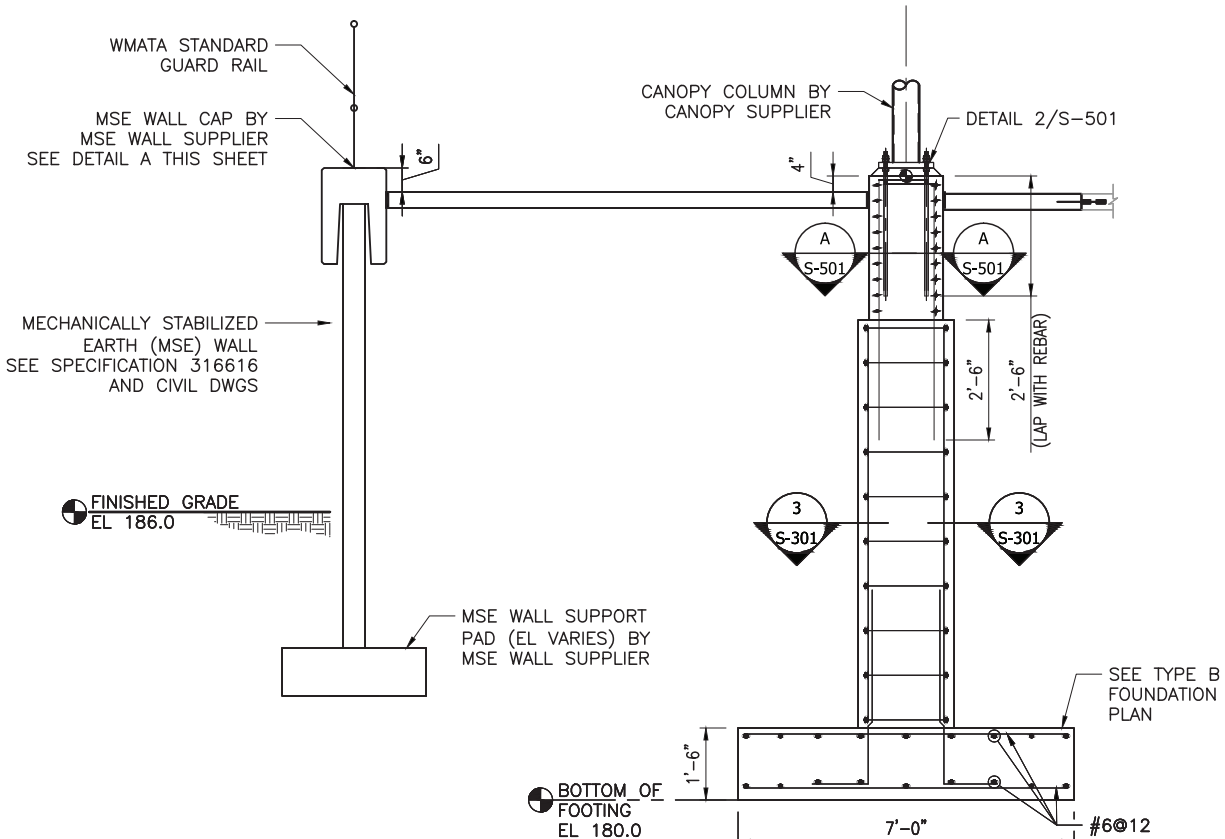
SCALE  
AS SHOWN

DRAWING NO.  
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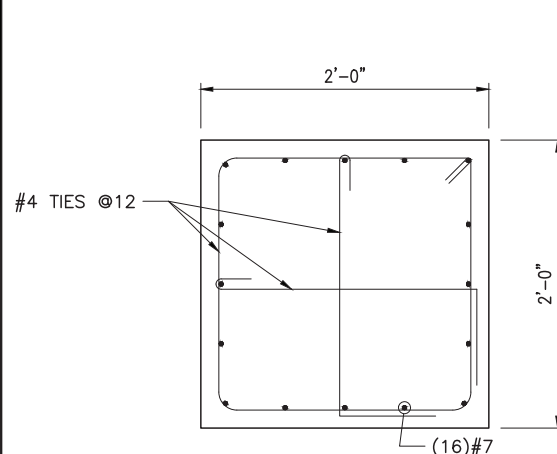
M-1273- 47



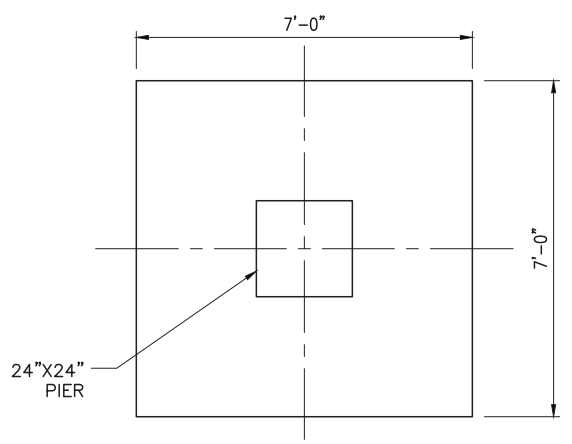
1 SECTION AT TYPE C FOUNDATION (HIGH CANOPY)  
SCALE: 1/2" = 1'-0"



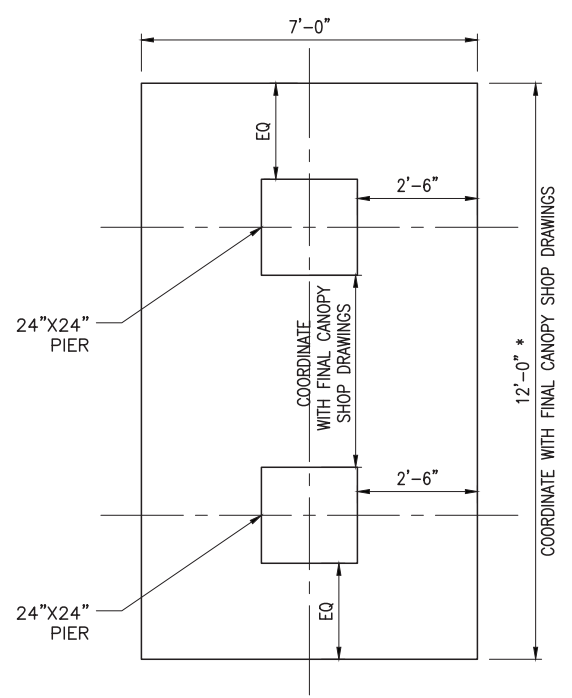
2 SECTION AT TYPE B FOUNDATION (LOW CANOPY)  
SCALE: 1/2" = 1'-0"



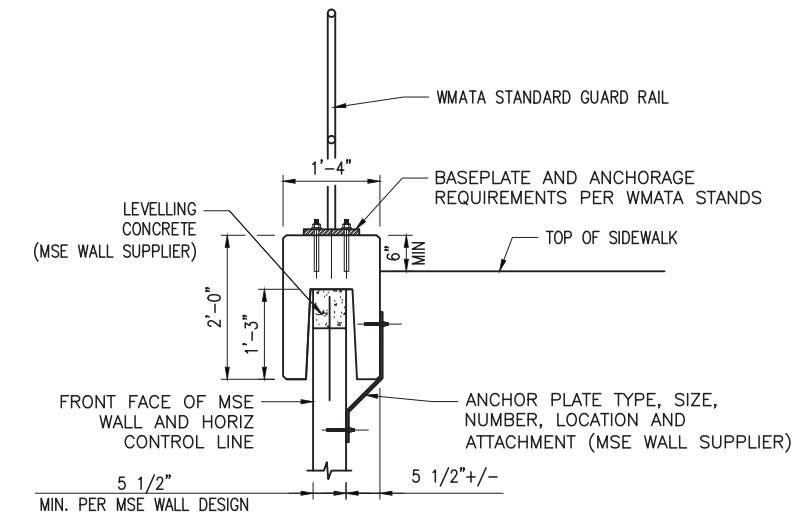
4 SECTION AT TYPICAL PIER  
SCALE: 1/2" = 1'-0"



4 TYPE B CANOPY FOUNDATION PLAN  
SCALE: 1/2" = 1'-0"

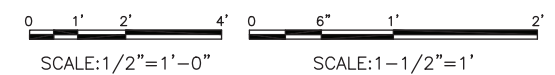


5 TYPE B CANOPY FOUNDATION PLAN  
SCALE: 1/2" = 1'-0"



NOTE:  
1. CAST IN PLACE CAP AT CONTRACTOR'S OPTION (BY MSE WALL SUPPLIER).  
2. WMATA STANDARD RAIL SEE WMATA DESIGN DIRECTIVES (DD-A-0B-001) MUST COMPLY WITH ADA REQUIREMENTS.

A MSE WALL CAP FOR GUARD RAIL  
SCALE: 3/4" = 1'-0"



CONTRACT NO.  
FQ15155

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APPROVED	V.C.	3-20-15

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

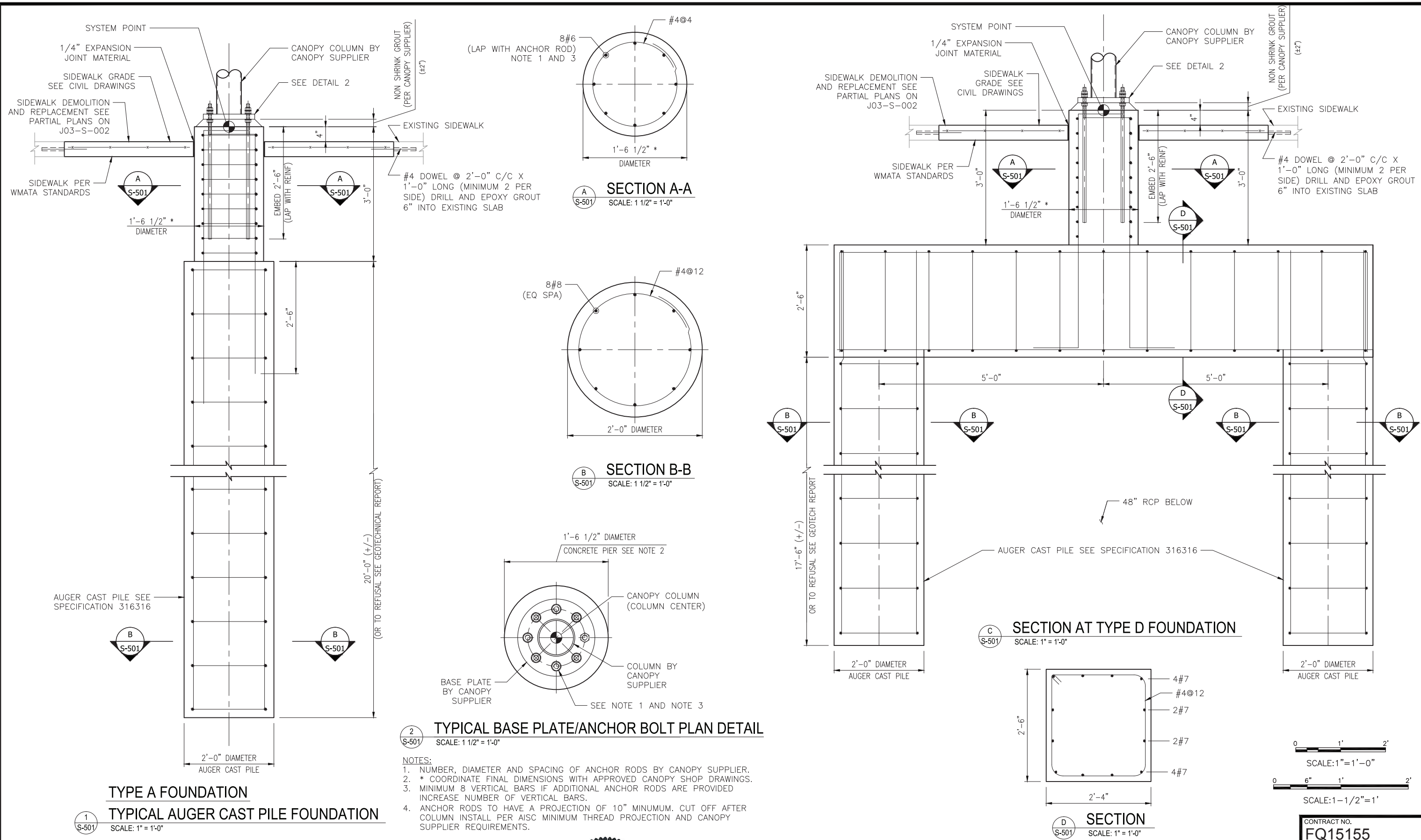
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION



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DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM  
APPROVED \_\_\_\_\_

**GFP** A Gannett Fleming/Parsons JOINT VENTURE  
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS  
STRUCTURAL SECTIONS  
SCALE AS SHOWN  
DRAWING NO. J03-S-301  
M-1273- 48

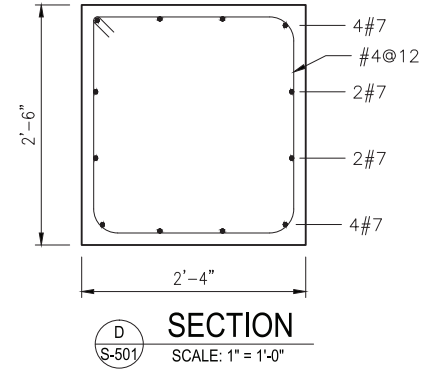


**TYPE A FOUNDATION**  
**TYPICAL AUGER CAST PILE FOUNDATION**  
 SCALE: 1" = 1'-0"

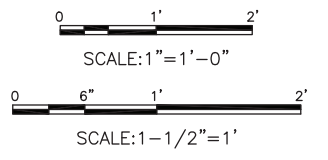
**TYPICAL BASE PLATE/ANCHOR BOLT PLAN DETAIL**  
 SCALE: 1 1/2" = 1'-0"

**NOTES:**  
 1. NUMBER, DIAMETER AND SPACING OF ANCHOR RODS BY CANOPY SUPPLIER.  
 2. \* COORDINATE FINAL DIMENSIONS WITH APPROVED CANOPY SHOP DRAWINGS.  
 3. MINIMUM 8 VERTICAL BARS IF ADDITIONAL ANCHOR RODS ARE PROVIDED INCREASE NUMBER OF VERTICAL BARS.  
 4. ANCHOR RODS TO HAVE A PROJECTION OF 10" MINIMUM. CUT OFF AFTER COLUMN INSTALL PER AISC MINIMUM THREAD PROJECTION AND CANOPY SUPPLIER REQUIREMENTS.

**SECTION AT TYPE D FOUNDATION**  
 SCALE: 1" = 1'-0"



**SECTION**  
 SCALE: 1" = 1'-0"



DESIGNED	M.C.P.	3-20-15
DRAWN	D.S.D.	3-20-15
CHECKED	G.D.G.	3-20-15
APPROVED	V.C.	3-20-15

NUMBER	DESCRIPTION	DATE	BY

NUMBER	DESCRIPTION	DATE	BY



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE  
 SUBMITTED \_\_\_\_\_ PROJECT MANAGER

CONTRACT NO. **FQ15155**  
 WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS  
 STRUCTURAL DETAILS  
 SCALE AS SHOWN  
 DRAWING NO. **J03-S-501**  
 M-1273- 49

**GENERAL NOTES (APPLICABLE TO ALL ELECTRICAL WORK)**

- PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED ON PLANS TO THE SATISFACTION OF THE ENGINEER AND THE OWNER. COORDINATE ALL WORK WITH THE ENGINEER BEFORE THE START OF WORK. ALL WORK SHALL BE PERFORMED BY A QUALIFIED ELECTRICAL CONTRACTOR LICENSED IN THE STATE OF VIRGINIA THAT HAS PREVIOUSLY PERFORMED WORK OF THIS SIZE AND TYPE.
- PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY CALLED FOR OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR.
- PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION. ALL WORK SHALL BE IN ACCORDANCE WITH THE WMATA DESIGN STANDARDS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE REQUIRED NOTICES, PERMITS, LICENSES, FEES, BACK CHARGES AND APPROVALS REQUIRED FOR THIS PROJECT.
- MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED.
- GUARANTEE WORK IN WRITING FOR TWO YEARS FROM DATE OF FINAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. SUBMIT GUARANTEE TO OWNER BEFORE FINAL PAYMENT.
- COORDINATE ALL ELECTRICAL ITEMS WITH EXISTING FIELD CONDITIONS. LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT IN THE FIELD TO SATISFY THE DESIGN INTENT.
- DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND VERIFICATION OF EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING ASSOCIATED EQUIPMENT AND CONDITIONS. COORDINATE THE LOCATION OF ALL EQUIPMENT WITH THE ENGINEER AND THE OWNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER TRADES' DRAWINGS AND SPECIFICATIONS AND COORDINATING WITH ALL OTHER TRADES DURING BIDDING AND CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY OF ALL POWER, CONTROL, AND COMMUNICATION FUNCTIONS TO ALL AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION.
- CONTRACTOR SHALL NOT CUT ANY ACTIVE ELECTRICAL OR COMMUNICATIONS LINES DURING CONSTRUCTION. IF THE CONTRACTOR ACCIDENTALLY CUTS A LINE, THEN THEY SHALL CONTACT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING WITH FURTHER WORK.
- REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS USED ON THE PROJECT. SUBMITTALS SHALL BE APPROVED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS.
- ALL ELECTRICAL CURRENT CARRYING PARTS SHALL BE COPPER FOR ALL EQUIPMENT.
- PERMANENTLY LABEL ALL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION. UPDATE PANEL DIRECTORIES TO INCLUDE NEW CIRCUIT INFORMATION RESULTING FROM THIS PROJECT.
- PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT. ALL TEMPORARY AND INTERIM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO, NFPA 110 AND NFPA 70. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS REQUIREMENT WITH ALL OTHER TRADES AND INCLUDING ALL ASSOCIATED COST IN BID PRICE.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT IS NOT SHOWN ON THE DRAWINGS.
- ENGAGE A QUALIFIED ELECTRICAL TESTING COMPANY TO LOCATE ALL UNDERGROUND UTILITIES IN PROPOSED CONSTRUCTION AREAS FOR ALL TRADES BEFORE DIGGING. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THIS ORGANIZATION AND INCLUDING ALL ASSOCIATED COSTS IN THE BID PRICE.
- UPON REMOVAL, CONTRACTOR SHALL INVENTORY MAJOR ELECTRICAL ITEMS THAT ARE REMOVED AND PROVIDE A LIST TO THE OWNER FOR THEIR SELECTION OF ITEMS TO BE RETAINED. ALL ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
- PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED EQUIPMENT.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOOR AND/OR IN WET LOCATIONS SHALL BE IN NEMA 4X ENCLOSURE TYPE 316 STAINLESS STEEL.
- ALL ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, SWITCHBOARDS, PANEL BOARDS, MOTOR STARTERS, ENCLOSED CIRCUIT BREAKERS, DISCONNECT SWITCHES, TRANSFORMERS, ENCLOSURES, AND WIRING DEVICES SHALL BE UL LISTED FOR ITS INTENDED USE.
- ALL RECEPTACLE OUTLETS INSTALLED OUTDOORS AND/OR IN WET LOCATIONS SHALL BE LISTED WEATHER-RESISTANT TYPE WITH A WEATHERPROOF WHILE-IN-USE COVER THAT IS LISTED AND IDENTIFIED AS "EXTRA-DUTY".

**ELECTRICAL CONVENTIONS**

**LIGHTING**

LUMINAIRE TYPE - SEE LUMINAIRE SCHEDULE

CIRCUIT NUMBER

CONTROL POINT DESIGNATION

SYMBOL	DESCRIPTION
LP2A-1,3,5	HOMERUN TO PANEL "LP2A", CIRCUITS #1,3,5 (VIA 20A-1P C/B'S). PROVIDE INSULATED GROUND CONDUCTOR IN ACCORDANCE WITH SPECIFICATIONS. NUMBER OF CIRCUITS INDICATED BY QUANTITY OF ARROW HEADS. THE USE OF DASHED LINE IN THIS SYMBOL INDICATES A BELOW GRADE HOMERUN.
	HASH MARKS INDICATE QUANTITY OF #12 AWG COPPER CONDUCTORS IN CONDUIT. WHEN NO HASH MARKS ARE INDICATED, CONDUIT SHALL CONTAIN (2) #12 WIRES AND #12 GROUND WIRE. ASSUME 3/4" DIAMETER CONDUIT UNLESS NOTED OTHERWISE. EXAMPLE SHOWN AT LEFT INDICATES 2 HOT, 2 NEUTRAL (LONG LINES), AND 1 GROUND WIRES.
	EXPOSED OR CONCEALED CONDUIT AND/OR WIRING.
	BELOW GRADE PVC SCHEDULE 40 CONDUIT IN CONCRETE ENCASEMENT AT LEAST 36" BELOW GRADE.
	BELOW GRADE RIGID GALVANIZED STEEL CONDUIT IN CONCRETE ENCASEMENT AT LEAST 36" BELOW GRADE.

**LIGHTING FIXTURE SCHEDULE**

FIXTURE TYPE	DESCRIPTION	LAMPS			VOLTAGE
		WATTS	NO.	TYPE	
A	POLE MOUNTED LED FIXTURE WITH 15' ROUND POLE, TYPE III DISTRIBUTION, DARK BRONZE FINISH FIXTURE BASIS OF DESIGN: LITHONIA #DSX1-LED-40C-700-30K-T3M-MVOLT-RPA-DBXD POLE BASIS OF DESIGN: LITHONIA #RSS-15-4-5B-DM19-DBD	89W	-	LED	277
B	4' OUTDOOR CANOPY MOUNTED FIXTURE WITH (2) FLUORESCENT T5HO LAMPS AND UPLIGHT REFLECTOR, WHITE FINISH BASIS OF DESIGN: ELLIPTIPAR #F164-D255-H-02-V00	108W	2	T5HO	277

- NOTES:**
- PROVIDE LAMPS IN ALL LIGHT FIXTURES.
  - PROVIDE ALL NECESSARY ACCESSORIES FOR MOUNTING FIXTURES AS REQUIRED.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF FIXTURES WITH OTHER TRADES TO AVOID MOUNTING ABOVE PIPES AND OTHER EQUIPMENT.
  - PROVIDE DISCONNECTS FOR ALL FIXTURES PER NEC.
  - ALL LIGHT FIXTURES SHALL BE UL LISTED FOR ITS INTENDED USE.
  - ALL LIGHT FIXTURES SHALL MEET THE REQUIREMENTS OF THE "BUY AMERICA" PROVISIONS IN TITLE 49 CODE OF FEDERAL REGULATIONS (CFR) 661.
  - PROVIDE POINT-BY-POINT LIGHTING CALCULATIONS WITH LIGHT FIXTURE SUBMITTALS. CALCULATED LIGHT LEVELS SHALL MEET THE WMATA DESIGN CRITERIA FOR EXTERIOR LIGHTING.
  - REFER TO WMATA STANDARD DRAWING ST-A-LT-010 FOR POLE BASE DETAIL.

**ABBREVIATIONS**

A	AMPERES	KVA	KILOVOLT AMPERES
ADA	AMERICANS WITH DISABILITIES ACT	KW	KILOWATTS
AFF	ABOVE FINISH FLOOR	LED	LIGHT EMITTING DIODE
AFG	ABOVE FINISH GRADE	LE	LEVEL ELEMENT
AHJ	AUTHORITY HAVING JURISDICTION	LIT	LEVEL INDICATOR / TRANSMITTER
AHU	AIR HANDLING UNIT	LTG	LIGHTING
AIC	AMPERE INTERRUPTING CAPACITY	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
AL	ALUMINUM	MC	METAL CLAD CABLE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MCB	MAIN CIRCUIT BREAKER
ARCH	ARCHITECT	MCC	MOTOR CONTROL CENTER
ATS	AUTOMATIC TRANSFER SWITCH	MCP	MOTOR CIRCUIT PROTECTOR
ATC	AUTOMATIC TEMPERATURE CONTROL	MISC	MISCELLANEOUS
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
BFG	BELOW FINISH GRADE	MMS	MANUAL MOTOR STARTER/SWITCH
BLDG	BUILDING	MS	MOTOR STARTER
C	CONDUIT	NC	NORMALLY CLOSED
CAT	CATALOG	NEC	NATIONAL ELECTRIC CODE
CB	CIRCUIT BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
CBM	CERTIFIED BALLAST MANUFACTURERS	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CKT	CIRCUIT	NO	NORMALLY OPEN OR NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
CLF	CURRENT LIMITING FUSE	P	POLE
CMS	COMBINATION MOTOR STARTER & DISCONNECT	PB	PUSHBUTTON
COL	COLUMN	PNL	PANEL
CPT	CONTROL POWER TRANSFORMER	POS	PROVIDED UNDER OTHER SECTIONS
CT	CURRENT TRANSFORMER	PPL	PPL ELECTRIC UTILITIES
CU	COPPER	P.S.T.	PRIMARY SETTLING TANK
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
DS	DISCONNECT SWITCH	PWR	POWER
EC	ELECTRICAL CONTRACTOR	QTY	QUANTITY
ECB	ENCLOSED CIRCUIT BREAKER	REL	RELOCATE
EF	EXHAUST FAN	REQ'D	REQUIRED
EM	EMERGENCY	REX	REMOVE EXISTING
EMT	ELECTRICAL METALLIC TUBING	RMC	RIGID METAL CONDUIT
EPO	EMERGENCY POWER OFF	RMS	ROOT MEAN SQUARED
EWC	ELECTRIC WATER COOLER	RNMC	RIGID NON-METALLIC CONDUIT
EX	EXISTING	RTU	ROOF TOP UNIT
ETR	EXISTING TO REMAIN	SCADA	SYSTEM CONTROL AND DATA ACQUISITION
F	FUSE	SP	SPARE
FA	FIRE ALARM	SS	STAINLESS STEEL
FACP	FIRE ALARM CONTROL PANEL	SW	SWITCH
FLA	FULL LOAD AMPERES	SYM	SYMMETRICAL
FMC	FLEXIBLE METAL CONDUIT	TEL	TELEPHONE
FT	FEET, FLOW TRANSMITTER	TPS	TWISTED PAIR, SHIELDED
FVNR	FULL VOLTAGE NON REVERSING (STARTER)	TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
GND,G	GROUND OR GROUNDING	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION UNIT
GRH	GAS FIRED RADIANT HEATER	TYP	TYPICAL
GRMC	GALVANIZED RIGID METALLIC CONDUIT	UG	UNDERGROUND OR UNDERGRADE
HOA	HAND, OFF, AUTOMATIC SWITCH	UL	UNDERWRITERS LABORATORIES
HP	HORSEPOWER	VT	VOLT
HRV	HEAT RECOVERY AND VENTILATION UNIT	V	VOLTAGE TRANSFORMER
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	W	WIRE
I&C	INSTRUMENTATION AND CONTROL	WH	WATER HEATER
IMC	INTERMEDIATE METAL CONDUIT	WP	WEATHER PROOF
INT	INTERLOCK	XFMR	TRANSFORMER
KCMIL	THOUSAND CIRCULAR MILS	Δ	DELTA
		Y	WYE
		∅	PHASE

**SYMBOL LEGEND**

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	480/277V PANELBOARD, SURFACE MOUNTED	78" TO TOP
	480/277V PANELBOARD, FLUSH MOUNTED	78" TO TOP
	208/120V PANELBOARD, SURFACE MOUNTED	78" TO TOP
	208/120V PANELBOARD, FLUSH MOUNTED	78" TO TOP
	CONTROL PANEL/CABINET, SURFACE MOUNTED	78" TO TOP
	CONTROL PANEL/CABINET, FLUSH MOUNTED	78" TO TOP
	POWER TRANSFORMER, WITH GROUND	= =
	SYSTEM GROUND OR EQUIPMENT GROUND	= =
	CIRCUIT BREAKER	= =
	ATTRIBUTES: AF = FRAME SIZE AT = TRIP SIZE 3P = QTY. OF POLES L2 = MISC. INFO. LSGI = LONG, SHORT TIME, INSTANTANEOUS, GROUND FAULT TRIP FUNCTIONS	= =
	NON-FUSED DISCONNECT SWITCH, SIZE AS INDICATED WHERE: "AF" - INDICATES AMPERE SWITCH SIZE "NF" - DENOTES NON-FUSED "P" - DENOTES POLE "3R" - DENOTES NEMA TYPE ENCLOSURE	60" TO TOP
	FUSED DISCONNECT SWITCH, SIZE AS INDICATED WHERE: "AF" - INDICATES AMPERE SWITCH SIZE "AT" - INDICATES AMPERE FUSE SIZE "P" - DENOTES POLE "3R" - DENOTES NEMA TYPE ENCLOSURE	60" TO TOP
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH	60" TO TOP
	125 VOLT, 2 POLE, 3 WIRE, 20 AMP RECEPTACLE. "2" DENOTES CIRCUIT NUMBER.	42" AFF
	125 VOLT, 2 POLE, 3 WIRE, 20 AMP DUPLEX RECEPTACLE GFI DENOTES EQUIPPED WITH INTEGRAL GROUND FAULT INTERRUPTER WP DENOTES WEATHER PROOF RECEPTACLE WITH WEATHER PROOF WHILE-IN-USE COVER	42" AFF
	JUNCTION BOX	= =
	ELECTRIC HANDHOLE	= =
	ELECTRIC MANHOLE	= =
	POLE MOUNTED LIGHT FIXTURE	= =

NOTE: SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT.

DESIGNED _____ JER _____ 03/20/15 DATE		DRAWN _____ JER _____ 03/20/15 DATE		CHECKED _____ QAM _____ 03/20/15 DATE		APPROVED _____ MG _____ 03/20/15 DATE		<p>REFERENCE DRAWINGS</p> <table border="1"> <thead> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION																																														<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION																																																<p>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</p> <p>DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM</p> <p>APPROVED _____</p>				<p>CONTRACT NO. FQ15155</p> <p>WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS</p> <p>ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES</p> <p>SCALE AS NOTED</p> <p>DRAWING NO. J03-E-001 M-1273-50</p>	
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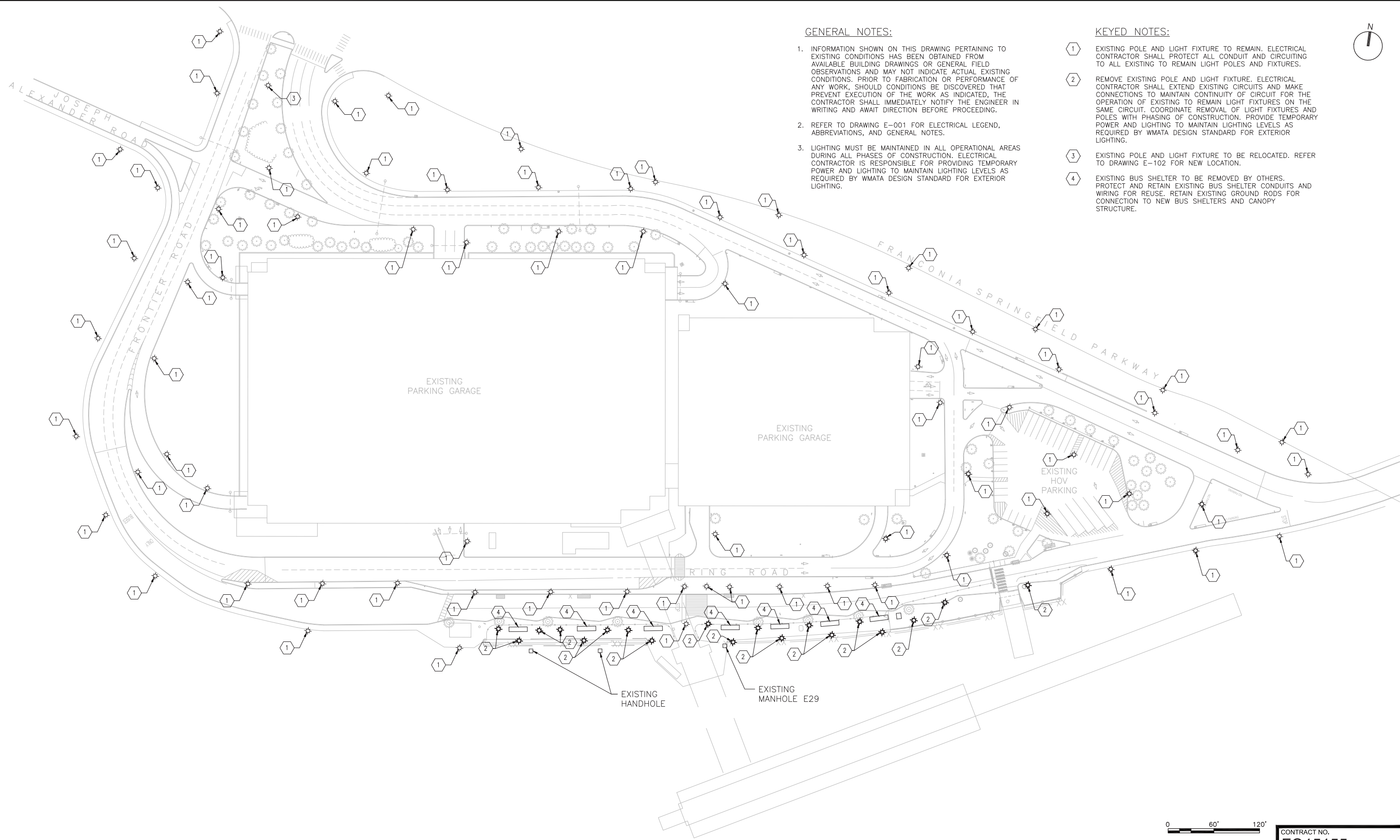


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2. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, AND GENERAL NOTES.
3. LIGHTING MUST BE MAINTAINED IN ALL OPERATIONAL AREAS DURING ALL PHASES OF CONSTRUCTION. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY POWER AND LIGHTING TO MAINTAIN LIGHTING LEVELS AS REQUIRED BY WMATA DESIGN STANDARD FOR EXTERIOR LIGHTING.

**KEYED NOTES:**

1. EXISTING POLE AND LIGHT FIXTURE TO REMAIN. ELECTRICAL CONTRACTOR SHALL PROTECT ALL CONDUIT AND CIRCUITING TO ALL EXISTING TO REMAIN LIGHT POLES AND FIXTURES.
2. REMOVE EXISTING POLE AND LIGHT FIXTURE. ELECTRICAL CONTRACTOR SHALL EXTEND EXISTING CIRCUITS AND MAKE CONNECTIONS TO MAINTAIN CONTINUITY OF CIRCUIT FOR THE OPERATION OF EXISTING TO REMAIN LIGHT FIXTURES ON THE SAME CIRCUIT. COORDINATE REMOVAL OF LIGHT FIXTURES AND POLES WITH PHASING OF CONSTRUCTION. PROVIDE TEMPORARY POWER AND LIGHTING TO MAINTAIN LIGHTING LEVELS AS REQUIRED BY WMATA DESIGN STANDARD FOR EXTERIOR LIGHTING.
3. EXISTING POLE AND LIGHT FIXTURE TO BE RELOCATED. REFER TO DRAWING E-102 FOR NEW LOCATION.
4. EXISTING BUS SHELTER TO BE REMOVED BY OTHERS. PROTECT AND RETAIN EXISTING BUS SHELTER CONDUITS AND WIRING FOR REUSE. RETAIN EXISTING GROUND RODS FOR CONNECTION TO NEW BUS SHELTERS AND CANOPY STRUCTURE.



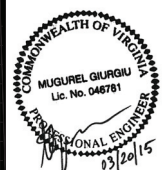
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CONTRACT NO.  
**FQ15155**

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 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
 ELECTRICAL  
 SITE LIGHTING - DEMOLITION

SCALE AS NOTED DRAWING NO. J03-E-101 M-1273-51

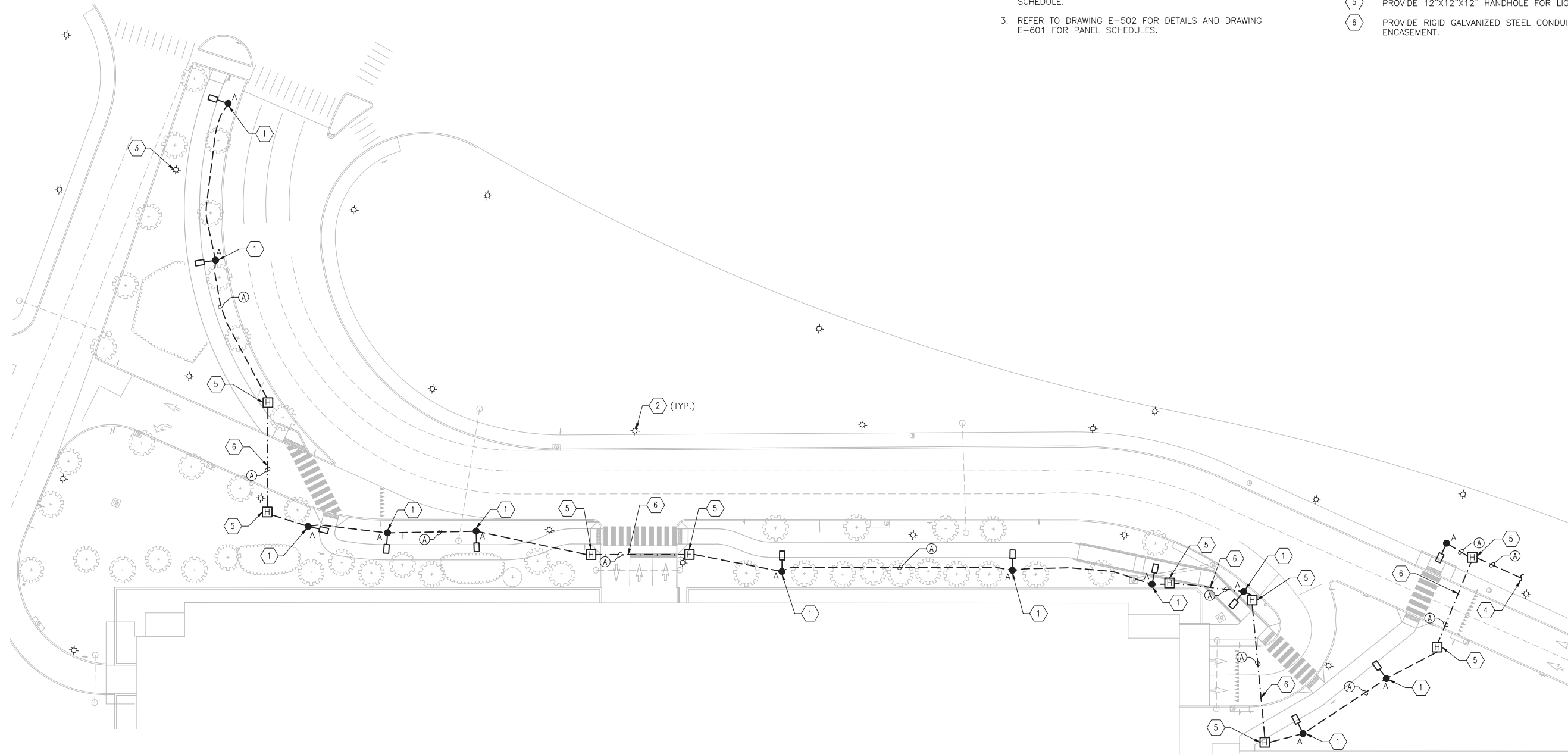


**GENERAL NOTES:**

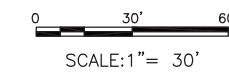
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2. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND LIGHT FIXTURE SCHEDULE.
3. REFER TO DRAWING E-502 FOR DETAILS AND DRAWING E-601 FOR PANEL SCHEDULES.

**KEYED NOTES:**

- 1 PROVIDE POLE AND LIGHT FIXTURE TYPE "A".
- 2 EXISTING POLE AND LIGHT FIXTURE TO REMAIN. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING CIRCUITS.
- 3 RELOCATE EXISTING POLE AND LIGHT FIXTURE TO THIS PROPOSED LOCATION. PROVIDE NEW FOUNDATION AND EXTEND EXISTING CIRCUIT.
- 4 REFER TO DRAWING E-103 FOR CONTINUATION OF CONDUIT ROUTING.
- 5 PROVIDE 12"x12"x12" HANDHOLE FOR LIGHTING CONDUIT.
- 6 PROVIDE RIGID GALVANIZED STEEL CONDUIT IN CONCRETE ENCASEMENT.



UNDERGROUND CONDUIT SCHEDULE					
TAG	CONDUIT	WIRING	PANEL NAME	CIRCUIT NUMBER	PANEL LOCATION
Ⓐ	1"	(2)#4, (1)#4 GRD	S2 SECTION 2	24	AC SWITCHBOARD ROOM

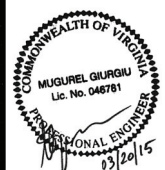


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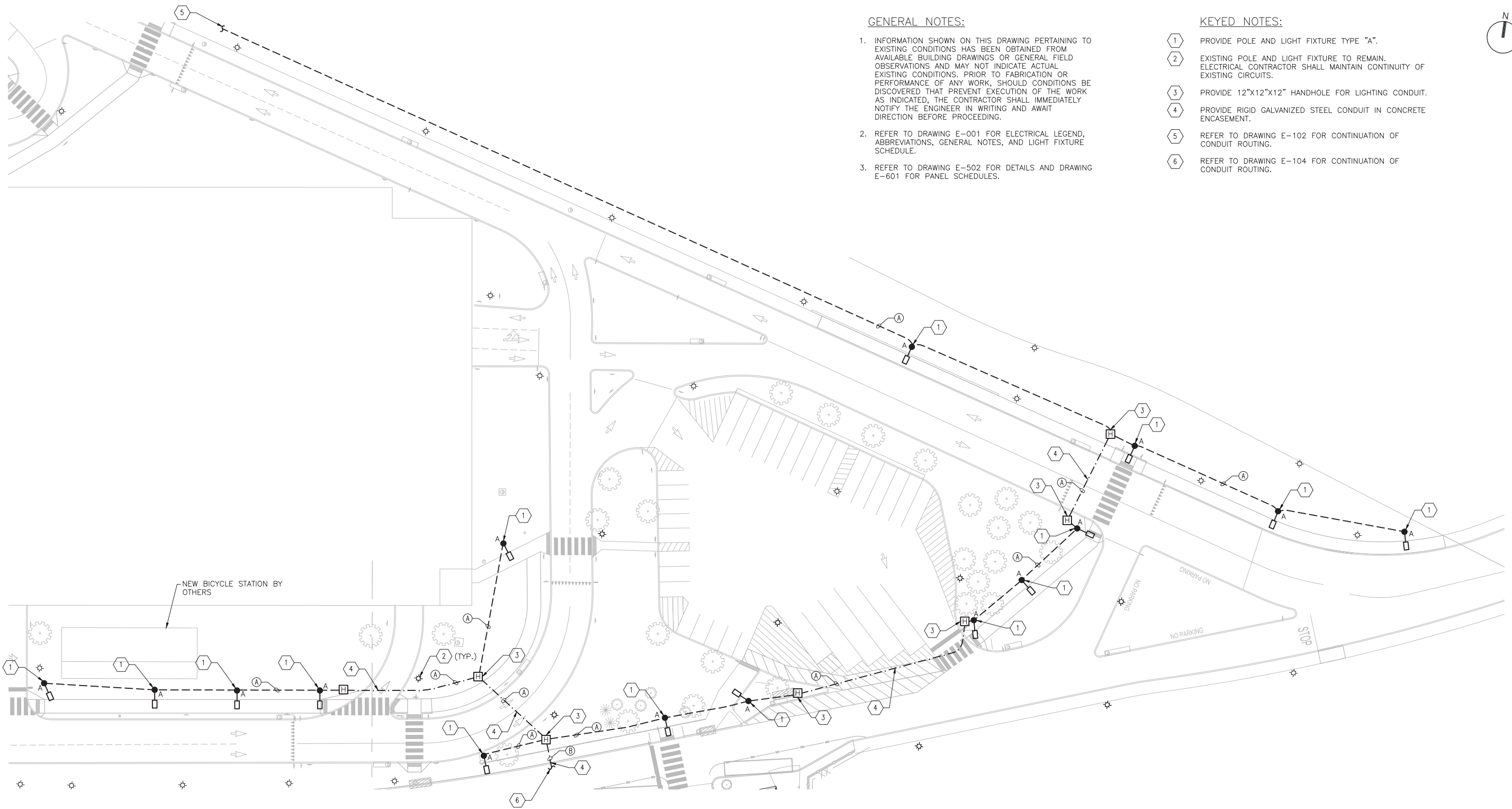
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**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**

ELECTRICAL  
SITE LIGHTING PARTIAL PLAN

SCALE AS NOTED DRAWING NO. J03-E-102 M-1273- 52



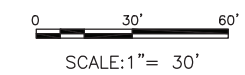
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2. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND LIGHT FIXTURE SCHEDULE.
3. REFER TO DRAWING E-502 FOR DETAILS AND DRAWING E-601 FOR PANEL SCHEDULES.

**KEYED NOTES:**

- 1 PROVIDE POLE AND LIGHT FIXTURE TYPE "A".
- 2 EXISTING POLE AND LIGHT FIXTURE TO REMAIN. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF EXISTING CIRCUITS.
- 3 PROVIDE 12"x12"x12" HANDHOLE FOR LIGHTING CONDUIT.
- 4 PROVIDE RIGID GALVANIZED STEEL CONDUIT IN CONCRETE ENCASEMENT.
- 5 REFER TO DRAWING E-102 FOR CONTINUATION OF CONDUIT ROUTING.
- 6 REFER TO DRAWING E-104 FOR CONTINUATION OF CONDUIT ROUTING.

UNDERGROUND CONDUIT SCHEDULE					
TAG	CONDUIT	WIRING	PANEL NAME	CIRCUIT NUMBER	PANEL LOCATION
A	1"	(2)#4, (1)#4 GRD	S2 SECTION 2	24	AC SWITCHBOARD ROOM
B	1-1/4"	(2)#3, (1)#3 GRD	S2 SECTION 2	24	AC SWITCHBOARD ROOM

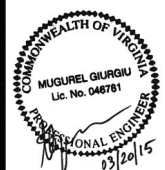


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JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
ELECTRICAL  
SITE LIGHTING PARTIAL PLAN

SCALE AS NOTED DRAWING NO. J03-E-103 M-1273- 53

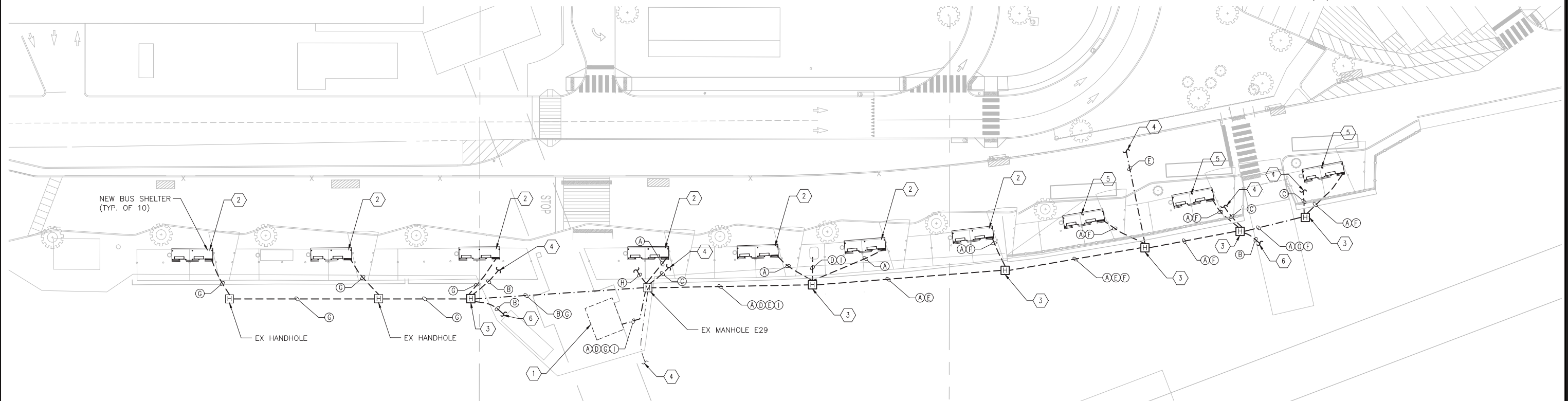


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2. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND LIGHT FIXTURE SCHEDULE.
3. REFER TO DRAWING E-502 FOR DETAILS AND DRAWING E-601 FOR PANEL SCHEDULES.

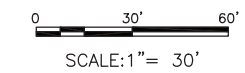
**KEYED NOTES:**

1. ELEVATOR MACHINE ROOM 1. REFER TO ENLARGED PLAN "B" ON DRAWING E-401.
2. EXTEND EXISTING WIRING AND CONDUITS FOR 277V LIGHTING CIRCUIT RETAINED DURING DEMOLITION TO NEW BUS SHELTERS. COORDINATE CONDUIT AND WIRING ROUTING WITH BUS SHELTER INSTALLER. CONNECT GROUND RODS TO NEW BUS SHELTER AND CANOPY STRUCTURE.
3. PROVIDE 12"x12"x12" HANDHOLE.
4. REFER TO DRAWING E-105 FOR CONTINUATION OF CONDUIT ROUTING.
5. EXTEND EXISTING BUS SHELTER WIRING FROM ADJACENT BUS SHELTER TO CONNECT TO PROPOSED NEW BUS SHELTER. PROVIDE NEW GROUND RODS AND MAKE CONNECTION TO BUS SHELTER AND CANOPY STRUCTURE.
6. PROVIDE POWER TO BIKE RACK SHELTER FOR FUTURE LIGHT FIXTURE. COORDINATE EXACT LOCATION OF CONDUIT AND WIRE TERMINATION WITH WMATA.
7. PROVIDE (1) 1" EMPTY CONDUIT TO BUS MANAGER KIOSK FOR DATA CONNECTION. COORDINATE CONDUIT ROUTING AND TERMINATIONS WITH WMATA.
8. PROVIDE NEW CONDUIT AND WIRE FOR 120V POWER TO CUSTOMER INFORMATION SIGN (CIS) IN BUS SHELTER.



**UNDERGROUND CONDUIT SCHEDULE**

TAG	CONDUIT	WIRING	PANEL NAME	CIRCUIT NUMBER	PANEL LOCATION
8 (A)	1"	(2)#8, (1)#8 GRD	AA3	8	ELEVATOR MACHINE ROOM NO. 1
(B)	1"	(2)#4, (1)#4 GRD	S2 SECTION 2	20	AC SWITCHBOARD ROOM
(C)	1"	(2)#4, (1)#4 GRD	S2 SECTION 2	22	AC SWITCHBOARD ROOM
8 (D)	1"	(2)#8, (1)#8 GRD	AA3	12	ELEVATOR MACHINE ROOM NO. 1
(E)	1-1/4"	(2)#3, (1)#3 GRD	S2 SECTION 2	24	AC SWITCHBOARD ROOM
(F)	1"	(2)#8, (1)#8 GRD	-	EXTEND EXISTING BUS SHELTER CIRCUIT	-
8 (G)	1"	(2)#8, (1)#8 GRD	AA3	10	ELEVATOR MACHINE ROOM NO. 1
(H)	1"	(2)#4, (1)#4 GRD	S2 SECTION 2	26	AC SWITCHBOARD ROOM
7 (I)	1"	-	-	-	ELEVATOR MACHINE ROOM NO. 1

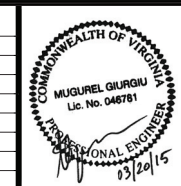


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**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**

ELECTRICAL  
BUS SHELTER POWER PLAN

SCALE: AS NOTED DRAWING NO. J03-E-104 M-1273-54



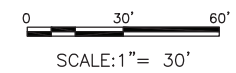
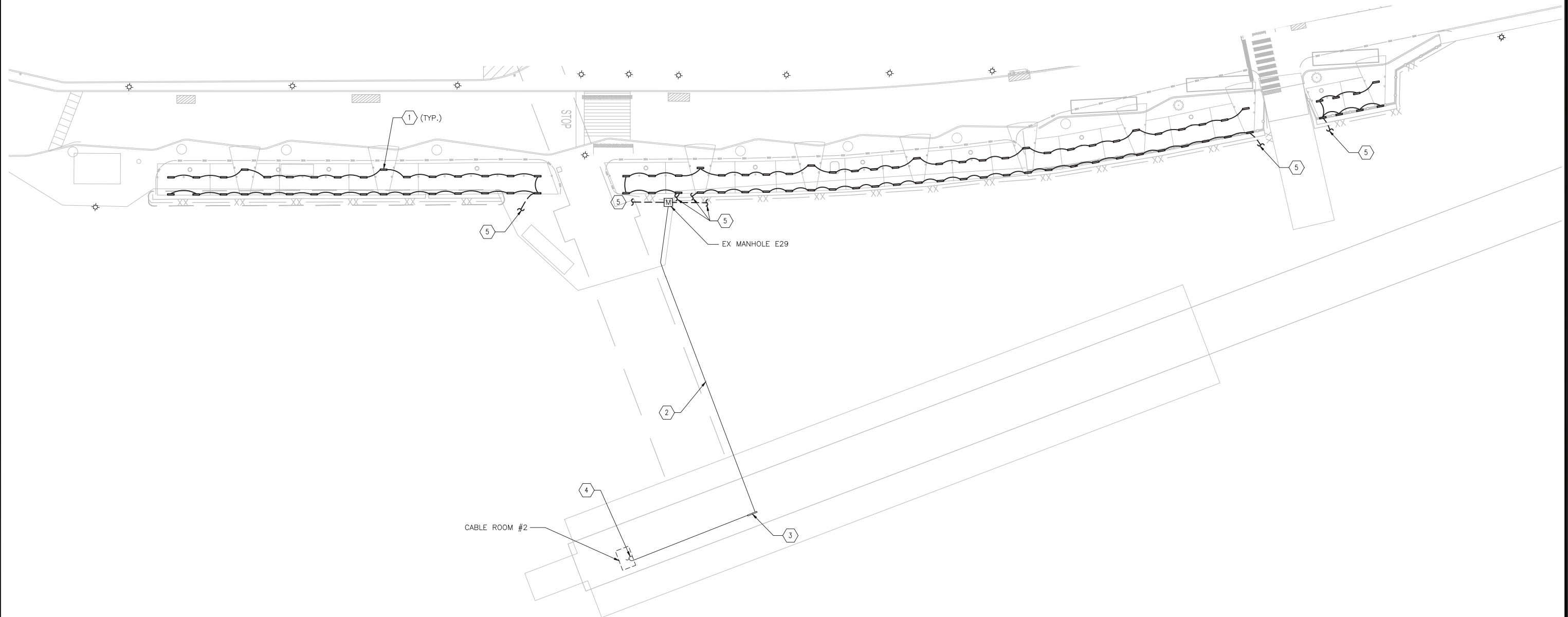


**GENERAL NOTES:**

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS. PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK, SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING.
2. REFER TO DRAWING E-001 FOR ELECTRICAL LEGEND, ABBREVIATIONS, GENERAL NOTES, AND LIGHT FIXTURE SCHEDULE.
3. REFER TO DRAWINGS E-501 AND E-502 FOR DETAILS AND DRAWING E-601 FOR PANEL SCHEDULES.

**KEYED NOTES:**

- 1 TYPICAL 4' CANOPY FIXTURE TYPE "B".
- 2 PROVIDE WIRING FOR NEW SITE LIGHTING FIXTURES THROUGH EXISTING 2" SPARE CONDUIT "P8a" IN EXISTING DUCTBANK E10. REFER TO DETAIL "E" ON DRAWING E-501 FOR DUCTBANK E10 PROFILE FROM MANHOLE E29 TO CABLE TUNNEL.
- 3 TERMINATION OF EXISTING DUCTBANK E10 INTO EXISTING JUNCTION BOX IN CABLE TUNNEL BELOW STATION PLATFORM IS SHOWN ON DETAIL "B" ON DRAWING E-501.
- 4 EXISTING CONDUIT CONTINUES UP TO AC SWITCHBOARD ROOM. REFER TO ENLARGED PLAN "A" ON DRAWING E-401.
- 5 REFER TO DRAWING E-104 FOR CONTINUATION OF CONDUIT ROUTING.

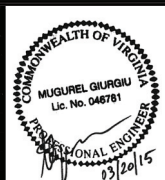


CONTRACT NO.  
**FQ15155**

DESIGNED	JER	03/20/15
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NUMBER	DESCRIPTION

REVISIONS		
NUMBER	DATE	DESCRIPTION



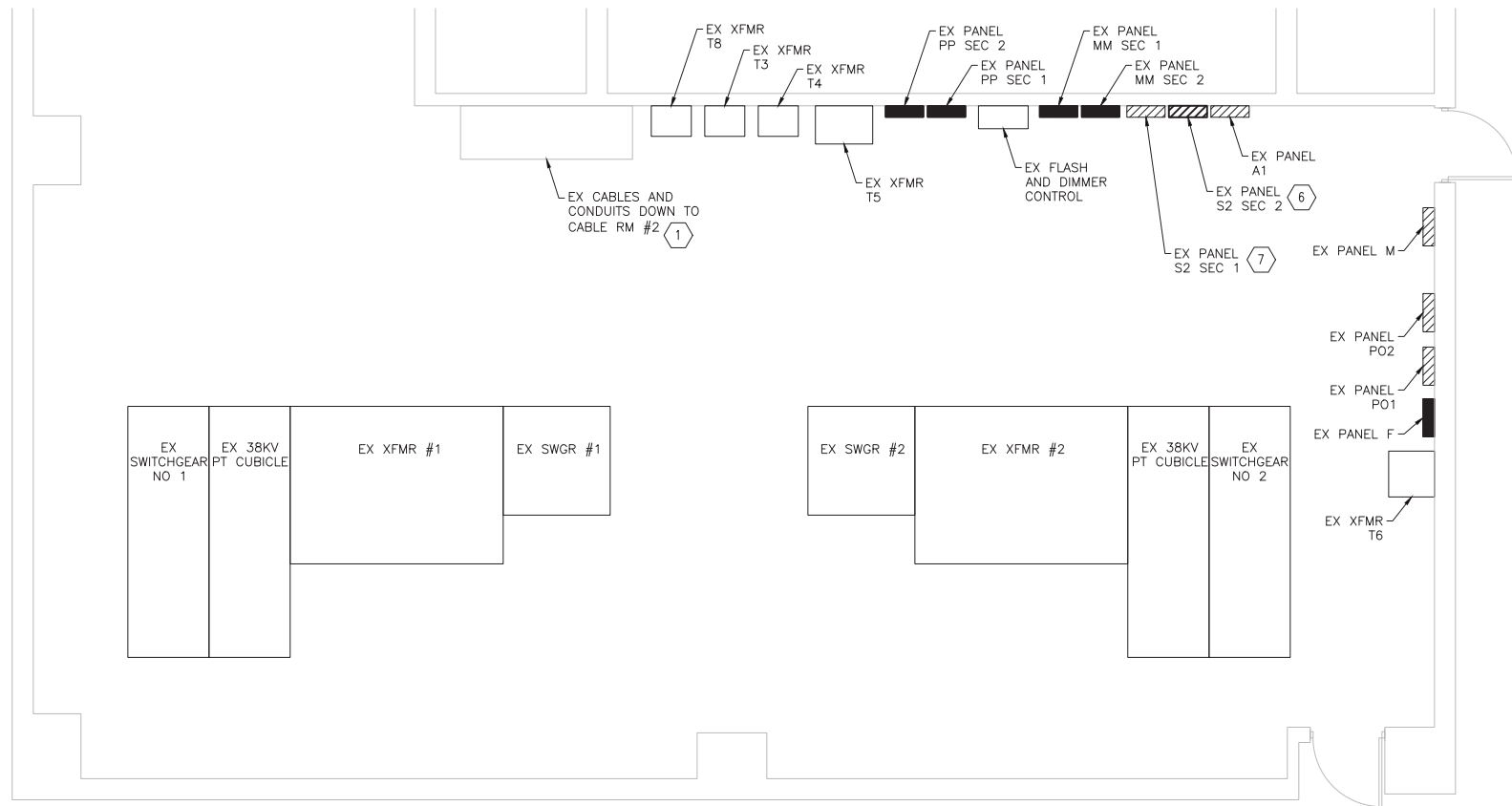
**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
 DEPARTMENT OF TRANSIT INFRASTRUCTURE  
 AND ENGINEERING SERVICES  
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons  
 JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_  
 PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
 METRO STATION IMPROVEMENTS**  
 ELECTRICAL  
 SITE LIGHTING PARTIAL PLAN

SCALE AS NOTED DRAWING NO. J03-E-105 M-1273- 55



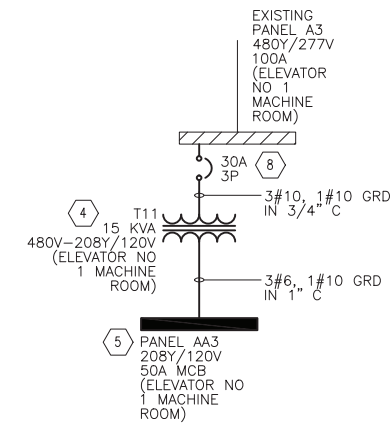
**A** AC SWITCHBOARD ROOM ENLARGED PLAN  
E-401 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

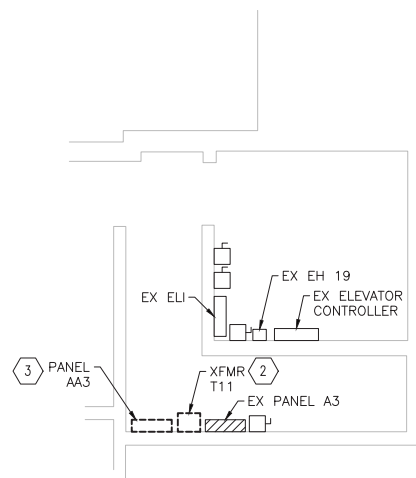
1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS. PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK, SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING.
2. REFER TO DRAWING E-601 FOR PANEL SCHEDULES.
3. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (——) SHALL BE NEW, ELECTRICAL ITEMS SHOWN LIGHT SOLID (---) SHALL BE EXISTING TO REMAIN AND ELECTRICAL ITEMS SHOWN HEAVY DASHED (-----) SHALL BE REMOVED.

**KEYED NOTES:**

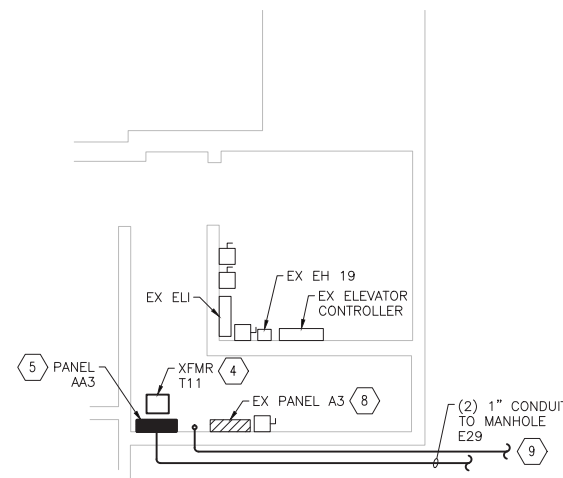
1. EXTEND CONDUIT AS NECESSARY FOR NEW CIRCUITS FROM PANEL S2. REFER TO DETAIL "D" ON DRAWING E-501 FOR EXISTING CONDUIT LAYOUT.
2. REMOVE EXISTING 6KVA WALL MOUNTED TRANSFORMER T-11. REMOVE ALL ASSOCIATED CONDUITS AND WIRING BACK TO SOURCE. LABEL EXISTING BREAKER IN PANEL A3 AS SPARE.
3. REMOVE EXISTING PANELBOARD AA3 AND ALL ASSOCIATED WIRING AND CONDUIT BACK TO ITS SOURCE. PROTECT AND RETAIN ALL EXISTING TO REMAIN BRANCH CIRCUITS FOR RECONNECTION.
4. PROVIDE NEW 15KVA 480-208Y/120V CEILING MOUNTED TRANSFORMER. PROVIDE NECESSARY MOUNTING HARDWARE FOR INSTALLATION. CONNECT TRANSFORMER TO EXISTING PANELBOARD A3 AND NEW PANELBOARD AA3 AS SHOWN ON DETAIL "D".
5. PROVIDE NEW PANELBOARD AA3. RECONNECT EXISTING TO REMAIN CIRCUITS TO NEW PANELBOARD. REFER TO DRAWING E-601 FOR PANELBOARD SCHEDULE.
6. PROVIDE NEW PANELBOARD S2 SECTION 2. RECONNECT EXISTING TO REMAIN CIRCUITS TO NEW PANELBOARD. REFER TO DRAWING E-601 FOR PANELBOARD SCHEDULE.
7. REMOVE EXISTING 480V, 100A, 3-POLE CIRCUIT BREAKER AND ASSOCIATED WIRING AND CONDUIT SERVING PANEL S2 SECTION 2. PROVIDE NEW 480V, 150A, 3-POLE CIRCUIT BREAKER. MATCH EXISTING TYPE, AIC RATING, AND MANUFACTURER. EXISTING PANELBOARD IS CUTLER-HAMMER, PRL3A MODEL. PROVIDE WIRING AND CONDUIT FROM NEW BREAKER TO PANEL S2 SECTION 2 AS SHOWN ON DETAIL "E" ON THIS DRAWING. CONTRACTOR SHALL PROVIDE ALL NECESSARY INCIDENTALS TO MAINTAIN THE INTEGRITY OF THE LIGHTING CONTROL SYSTEM THAT IS TO BE CONTROLLED BY EXISTING CENTRALIZED WMATA RTU.
8. PROVIDE NEW 480V, 30A, 3-POLE CIRCUIT BREAKER IN EXISTING PREPARED SPACE ON PANEL A3. MATCH EXISTING TYPE, AIC RATING AND MANUFACTURER.
9. PROVIDE (1) 1" EMPTY CONDUIT TO BUS MANAGER KIOSK FOR DATA CONNECTION. COORDINATE CONDUIT ROUTING AND TERMINATION WITH WMATA.



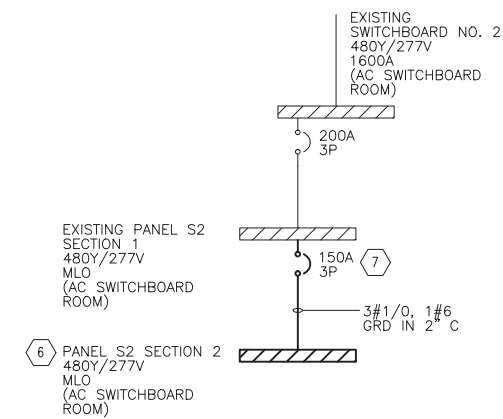
**D** PARTIAL ONE LINE DIAGRAM - NEW WORK  
E-401 SCALE: NTS



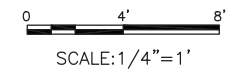
**B** ELEVATOR NO 1 MACHINE ROOM ENLARGED PLAN - DEMOLITION  
E-401 SCALE: 1/4" = 1'-0"



**C** ELEVATOR NO 1 MACHINE ROOM ENLARGED PLAN - NEW WORK  
E-401 SCALE: 1/4" = 1'-0"



**E** PARTIAL ONE LINE DIAGRAM - NEW WORK  
E-401 SCALE: NTS

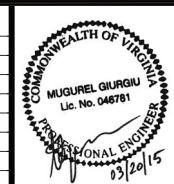


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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES  
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

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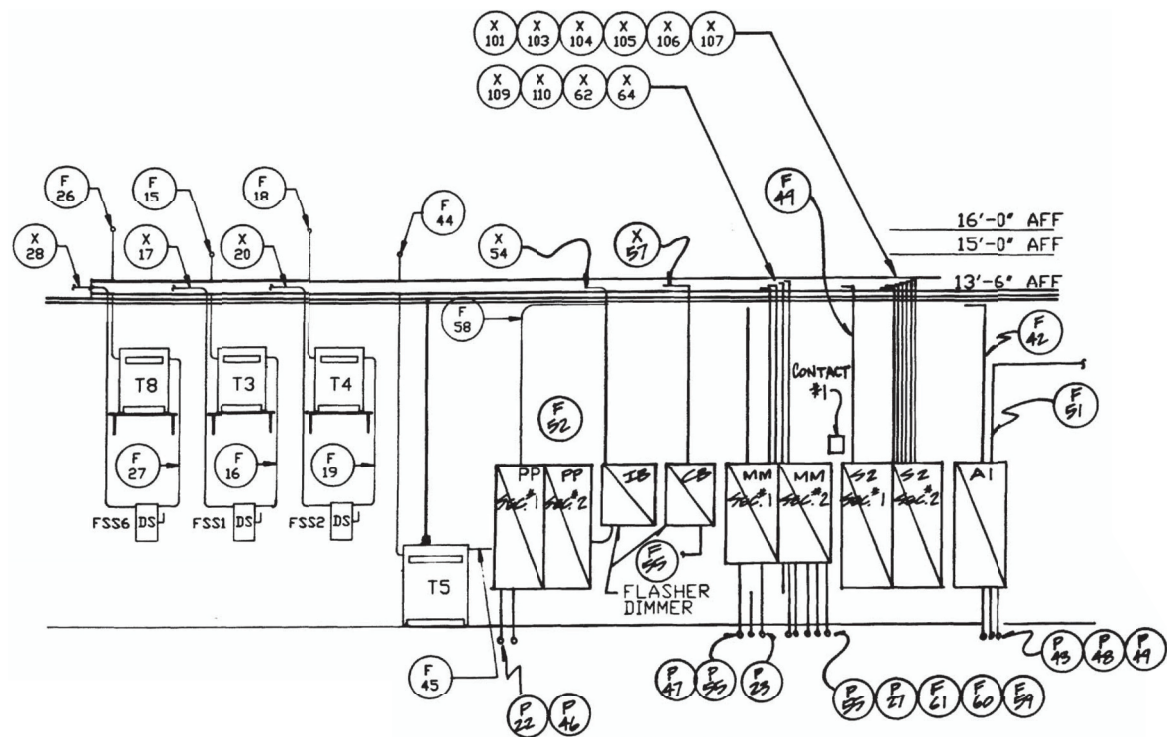
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS

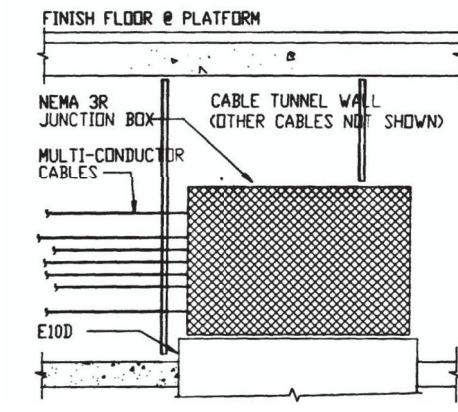
ELECTRICAL ENLARGED PLANS

SCALE  
AS NOTED

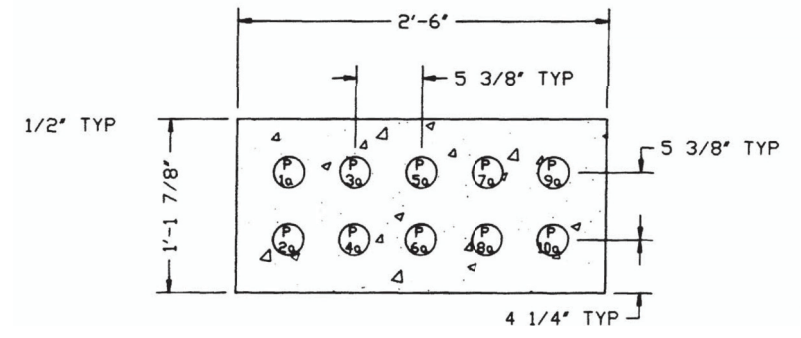
DRAWING NO.  
J03-E-401 M-1273-56



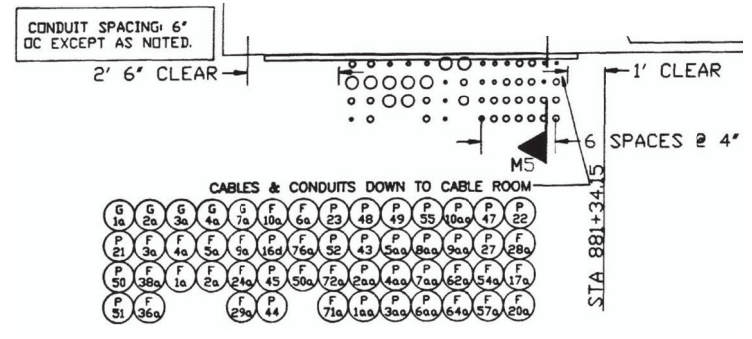
**A AC SWITCHBOARD RM ELEVATION**  
E-501 SCALE: NTS



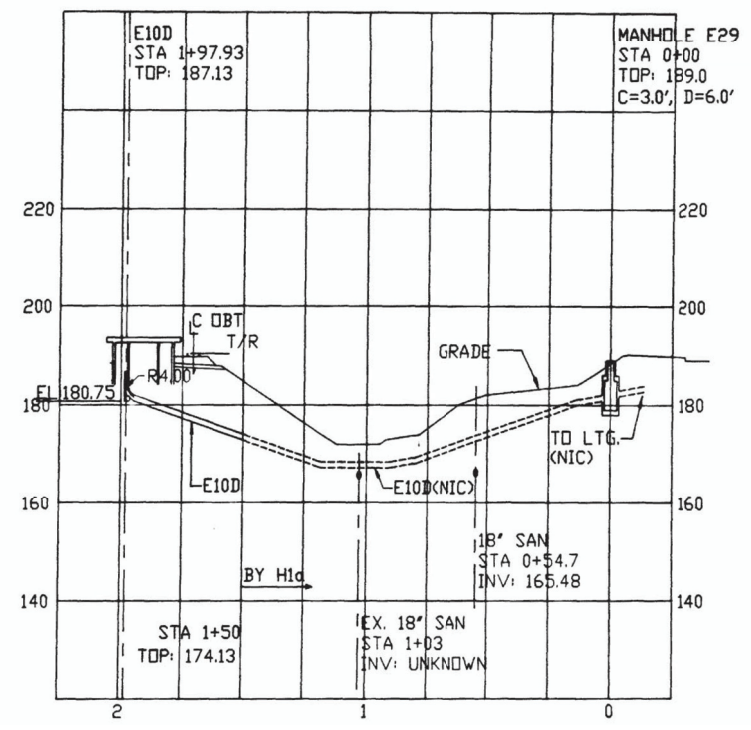
**B SECTION E10 IN TUNNEL**  
E-501 SCALE: 1/2" = 1'-0"



**C E10 DUCTBANK SECTION**  
E-501 SCALE: NTS



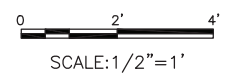
**D AC SWITCHBOARD ROOM CONDUITS DOWN TO CABLE ROOM 2**  
E-501 SCALE: NTS



**E DUCTBANK E10 PROFILE**  
E-501 SCALE: 1/2" = 1'-0"

**GENERAL NOTES:**

1. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM EXISTING AS-BUILT DRAWINGS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS.
2. INFORMATION SHOWN ON THIS DRAWING IS FOR REFERENCE ONLY TO DEPICT EXISTING CONDITIONS IN ORDER FOR THE CONTRACTOR TO PULL NEW WIRING IN EXISTING 2" SPARE CONDUIT FROM AC SWITCHBOARD ROOM TO MANHOLE E29 VIA DUCTBANK E10 FOR NEW LIGHTING CIRCUITS.



CONTRACT NO.  
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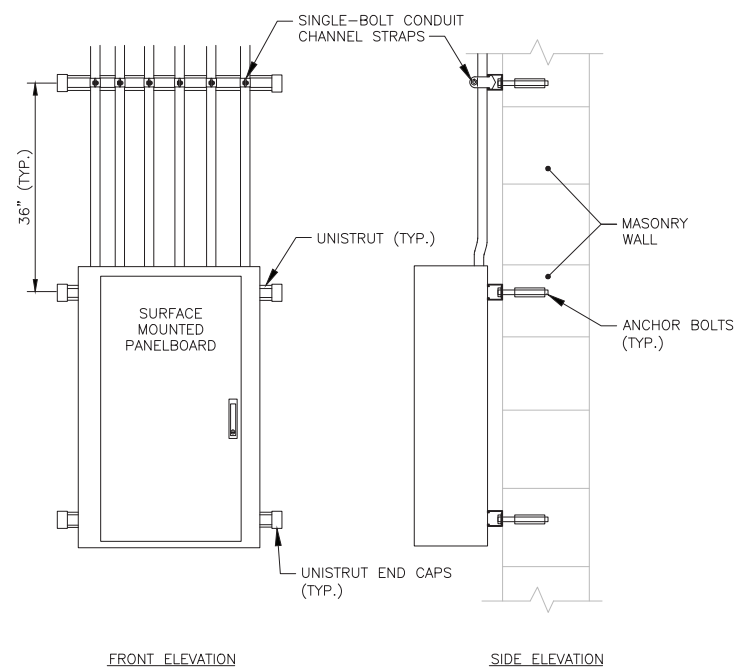
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OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

**GFP** A Gannett Fleming/Parsons JOINT VENTURE

APPROVED \_\_\_\_\_ SUBMITTED \_\_\_\_\_ PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS**  
ELECTRICAL DETAILS

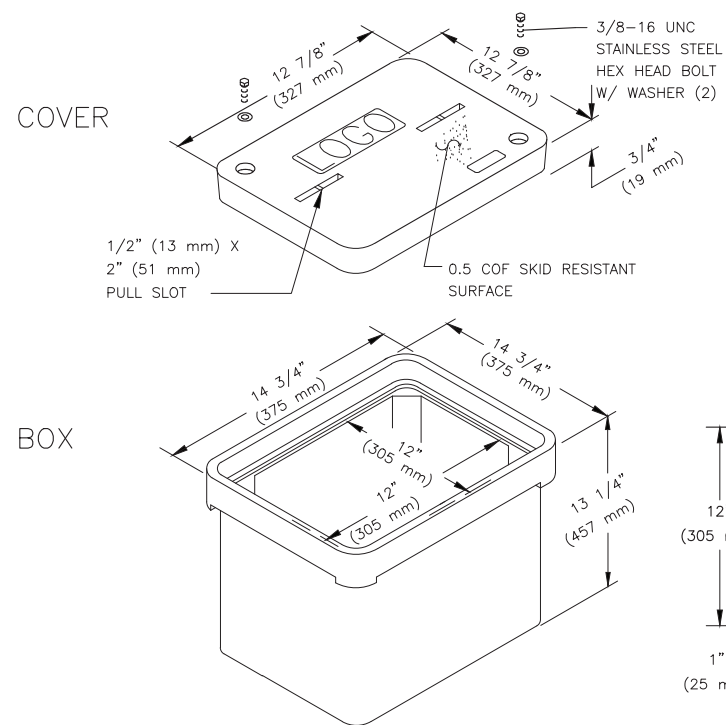
SCALE: AS NOTED  
DRAWING NO.: J03-E-501  
M-1273-57



FRONT ELEVATION

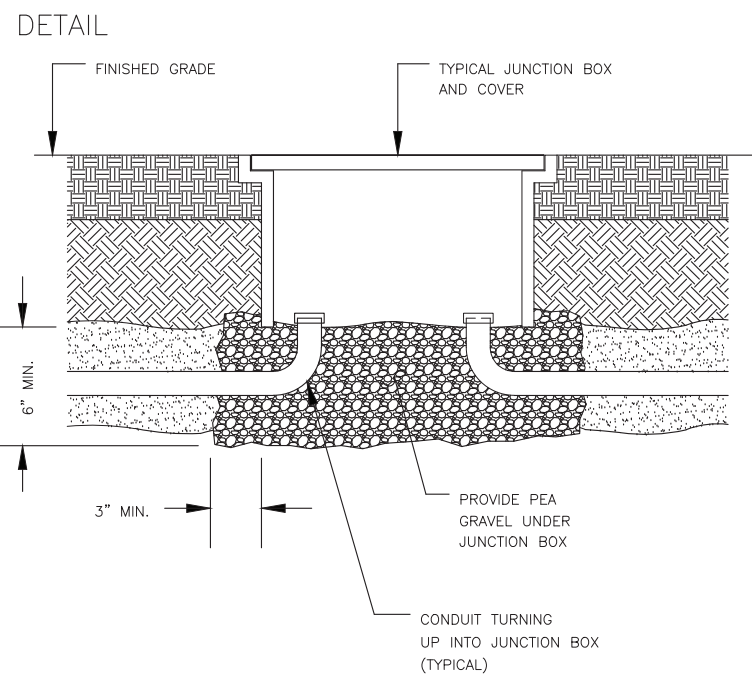
SIDE ELEVATION

**A** PANELBOARD WALL MOUNTING DETAIL  
E-502 SCALE: NTS



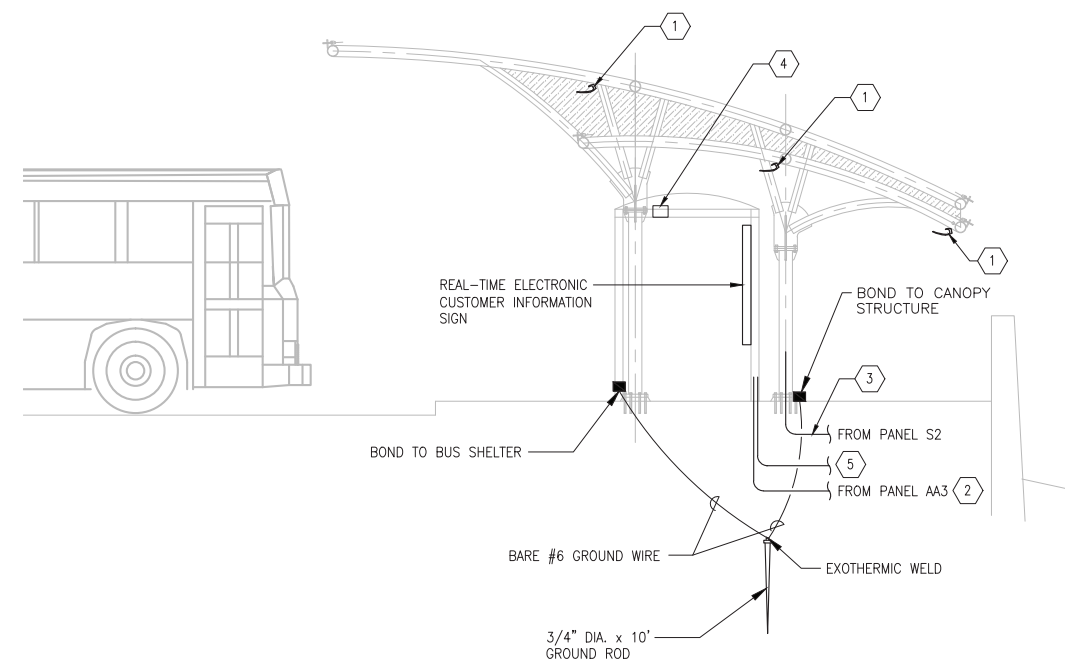
COVER

BOX



DETAIL

**B** HANDHOLE DETAIL  
E-502 SCALE: NTS



**KEYED NOTES:**

- 1 TYPICAL 4' CANOPY FIXTURE (TYPE "B"). LIGHT FIXTURES SHALL BE MOUNTED AND ORIENTED FOR INDIRECT LIGHTING WITH THE FACE OF THE LAMP FACING TOWARDS THE CANOPY CEILING. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT PLACEMENT AND ORIENTATION OF THE LIGHT FIXTURE BASED ON THE LIGHTING CALCULATIONS AND THE MANUFACTURERS RECOMMENDATIONS. PROVIDE ALL NECESSARY HARDWARE FOR INSTALLATION.
- 2 (1) 1" CONDUIT FROM PANEL "AA3" FOR CIS 120V POWER. COORDINATE WITH SHELTER MANUFACTURER FOR ROUTING AND CONNECTIONS.
- 3 1" CONDUIT FROM PANEL "S2" FOR CANOPY LIGHT FIXTURES. ALL VERTICAL CONDUIT AT CANOPY SHALL BE CONCEALED IN STRUCTURAL POSTS. HORIZONTAL CONDUIT SHALL BE TIGHT AGAINST THE STRUCTURE AND CONCEALED FROM VIEW WHENEVER POSSIBLE. COORDINATE ROUTING AND CONNECTIONS OF CONDUIT AND MOUNTING OF CANOPY FIXTURES WITH CANOPY MANUFACTURER.
- 4 LED STRIP LIGHT FIXTURE PROVIDED BY BUS SHELTER MANUFACTURER.
- 5 EXTEND EXISTING WIRING AND CONDUITS FOR 277V LIGHTING CIRCUIT RETAINED DURING DEMOLITION AND CONNECT TO NEW BUS SHELTER LIGHT FIXTURES. LIGHT FIXTURES SHALL BE CONTROLLED BY EXISTING WMATA REMOTE TELEMETRY UNIT (RTU). COORDINATE WITH SHELTER MANUFACTURER FOR ROUTING AND CONNECTIONS.

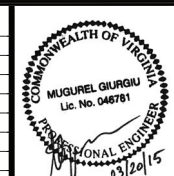
**C** SECTION THRU TWO TIER CANOPY  
E-502 SCALE: NTS

CONTRACT NO.  
**FQ15155**

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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APPROVED \_\_\_\_\_

**GFP** A Gannett Fleming/Parsons  
JOINT VENTURE

SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

**WMATA FRANCONIA SPRINGFIELD  
METRO STATION IMPROVEMENTS**  
ELECTRICAL DETAILS

SCALE  
AS NOTED

DRAWING NO.  
J03-E-502 M-1273- 58

**PANEL: AA3** **AMP: 100** **VOLT: 120/208**  
**MOUNTING: SURFACE** **MAIN: 50 MCB** **PHASE: 3** **4 WIRE + GND**  
**AIC: 10K AMPS RMS SYM**

Branch Circuit Load Description	KVA Load			Trip Poles	Circuit Wiring				Ckt. No.	Phase	Ckt. No.	Circuit Wiring				Trip Poles	KVA Load			Branch Circuit Load Description		
	A	B	C		NO	Size	GND	C				NO	Size	GND	C		A	B	C			
EXISTING LOAD	EX			30/3	EX	EX	EX	EX	1	A	2	-	-	-	-	20/1	0.00			EXISTING LOAD		
**		EX		**	**	**	**	**	3	B	4	EX	EX	EX	EX	20/1		EX		EXISTING LOAD		
**			EX	**	**	**	**	**	5	C	6	-	-	-	-	15/1		0.00		EXISTING LOAD		
EXISTING LOAD	EX			20/1	EX	EX	EX	EX	7	A	8	2	#8	#8	1*	20/1	0.90			ELECTRONIC INFO. SIGN		
EXISTING LOAD		EX		20/1	EX	EX	EX	EX	9	B	10	2	#8	#8	1*	20/1		0.90		ELECTRONIC INFO. SIGN		
EXISTING LOAD			EX	15/1	EX	EX	EX	EX	11	C	12	2	#8	#8	1*	20/1		1.20		KIOSK		
SPARE	0.00			20/1	-	-	-	-	13	A	14	-	-	-	-	20/1	0.00			SPARE		
SPARE		0.00		20/1	-	-	-	-	15	B	16	-	-	-	-	20/1	0.00			SPARE		
BUSSED SPACE				PS/1	-	-	-	-	17	C	18	-	-	-	-	PS/1				BUSSED SPACE		
0.00 0.00 0.00 << PHASE SUB-TOTALS >>																	0.90	0.90	1.20			

PHASE A  kVA  
PHASE B  kVA  
PHASE C  kVA

3.00 kVA TOTAL NEW CONNECTED LOAD      10 Amps TOTAL NEW CONNECTED LOAD

NOTES:  
PROVIDE NEW PANELBOARD IN NEMA 1 ENCLOSURE

PROVIDE THE FOLLOWING:  
PANELBOARD

**PANEL: S2 SECTION 2** **AMP: 225** **VOLT: 277/480**  
**MOUNTING: SURFACE** **MAIN: MLO** **PHASE: 3** **4 WIRE + GND**  
**AIC: 65K AMPS RMS SYM**

Branch Circuit Load Description	KVA Load			Trip Poles	Circuit Wiring				Ckt. No.	Phase	Ckt. No.	Circuit Wiring				Trip Poles	KVA Load			Branch Circuit Load Description		
	A	B	C		NO	Size	GND	C				NO	Size	GND	C		A	B	C			
EXISTING	EX			20/1	EX	EX	EX	EX	1	A	2	EX	EX	EX	EX	20/1	EX			EXISTING		
EXISTING		EX		20/1	EX	EX	EX	EX	3	B	4	EX	EX	EX	EX	20/1		EX		EXISTING		
EXISTING			EX	20/1	EX	EX	EX	EX	5	C	6	EX	EX	EX	EX	20/1			EX	EXISTING		
EXISTING	EX			20/1	EX	EX	EX	EX	7	A	8	EX	EX	EX	EX	20/1		EX		EXISTING		
EXISTING		EX		20/1	EX	EX	EX	EX	9	B	10	EX	EX	EX	EX	20/1			EX	EXISTING		
EXISTING			EX	20/1	EX	EX	EX	EX	11	C	12	EX	EX	EX	EX	20/1			EX	EXISTING		
EXISTING	EX			20/1	EX	EX	EX	EX	13	A	14	EX	EX	EX	EX	20/1	EX			EXISTING		
EXISTING		EX		20/1	EX	EX	EX	EX	15	B	16	EX	EX	EX	EX	20/1		EX		EXISTING		
EXISTING			EX	20/1	EX	EX	EX	EX	17	C	18	EX	EX	EX	EX	20/1			EX	EXISTING		
EXISTING	EX			20/1	EX	EX	EX	EX	19	A	20	2	#4	#4	1*	20/1	3.46			CANOPY LIGHTS		
EXISTING		EX		20/1	EX	EX	EX	EX	21	B	22	2	#4	#4	1*	20/1		3.78		POLE LIGHTS		
EXISTING			EX	20/1	EX	EX	EX	EX	23	C	24	2	#3	#3	1-1/4"	20/1		2.51		POLE LIGHTS		
SPARE	0.00			20/1	-	-	-	-	25	A	26	2	#4	#4	1*	20/1	3.35			CANOPY LIGHTS		
SPARE		0.00		20/1	-	-	-	-	27	B	28	-	-	-	-	20/1		0.00		SPARE		
SPARE			0.00	20/1	-	-	-	-	29	C	30	-	-	-	-	20/1			0.00	SPARE		
BUSSED SPACE				PS/1	-	-	-	-	31	A	32	-	-	-	-	PS/1				BUSSED SPACE		
BUSSED SPACE				PS/1	-	-	-	-	33	B	34	-	-	-	-	PS/1				BUSSED SPACE		
BUSSED SPACE				PS/1	-	-	-	-	35	C	36	-	-	-	-	PS/1				BUSSED SPACE		
0.00 0.00 0.00 << PHASE SUB-TOTALS >>																	6.80	3.78	2.51			

PHASE A  kVA  
PHASE B  kVA  
PHASE C  kVA

13.09 kVA TOTAL NEW CONNECTED LOAD      24.6 Amps TOTAL NEW CONNECTED LOAD

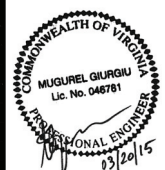

NOTES:  
PROVIDE NEW PANELBOARD IN NEMA 1 ENCLOSURE

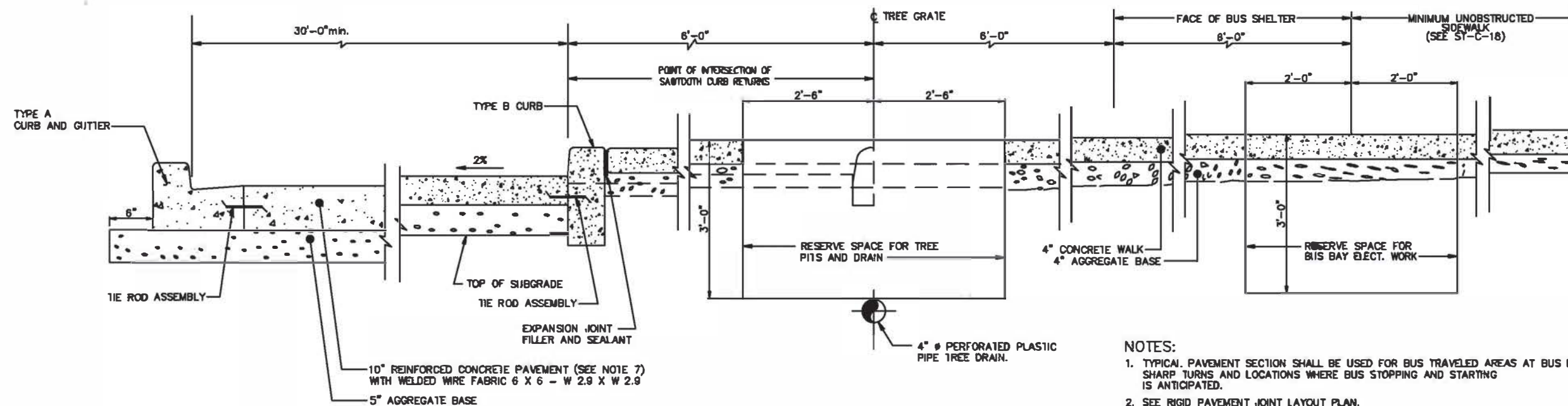
PROVIDE THE FOLLOWING:  
PANELBOARD

### POWER AND CONTROL CONDUIT SCHEDULE

CND. NO. P-	REF. DWG. NO. E-	FROM	TO	SERVING	CONDUIT			CONDUCTORS		REMARKS
					SIZE	TYPE	QNTY	SIZE	GND	
8aa	165	SWITCHGEAR ROOM	IB CABLE ROOM	SPARE	2"	GRS	0			SLEEVE
8a	114,121	IB CABLE TUNNEL	END OF CONTRACT @ H1a	SPARE	2"	PVC	0			
8b	3	END OF CONTRACT @ H1b	MANHOLE E29	SPARE	2"	PVC	0			CONDUIT BY H1a

NOTES:  
1. CONDUIT SCHEDULE SHOWN FOR REFERENCE ONLY TO PULL NEW WIRING IN EXISTING 2"  
SPARE CONDUIT FROM AC SWITCHBOARD ROOM TO MANHOLE E29 FOR NEW LIGHTING CIRCUITS.

DESIGNED <u>JER</u> 03/20/15 DATE		DRAWN <u>JER</u> 03/20/15 DATE		CHECKED <u>QAM</u> 03/20/15 DATE		APPROVED <u>MG</u> 03/20/15 DATE		<table border="1"> <thead> <tr> <th colspan="2">REFERENCE DRAWINGS</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		REFERENCE DRAWINGS		REVISIONS		NUMBER	DESCRIPTION	DATE	BY																							<b>WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY</b> DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM APPROVED _____				<b>WMATA FRANCONIA SPRINGFIELD METRO STATION IMPROVEMENTS</b> ELECTRICAL SCHEDULES SCALE AS NOTED		CONTRACT NO. <b>FQ15155</b> DRAWING NO. <b>J03-E-601 M-1273-59</b>	
REFERENCE DRAWINGS		REVISIONS																																													
NUMBER	DESCRIPTION	DATE	BY																																												



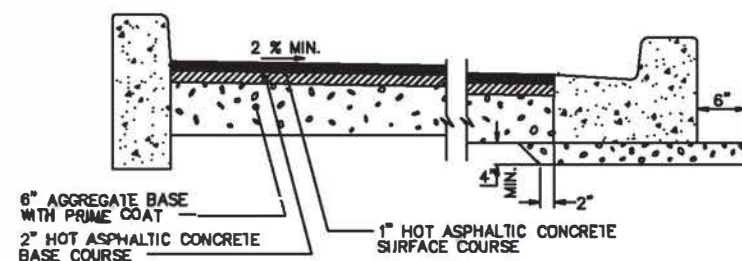
**TYPICAL PAVEMENT SECTION A  
ENTRANCE ROADWAYS AND BUS AREAS**

**NOTES:**

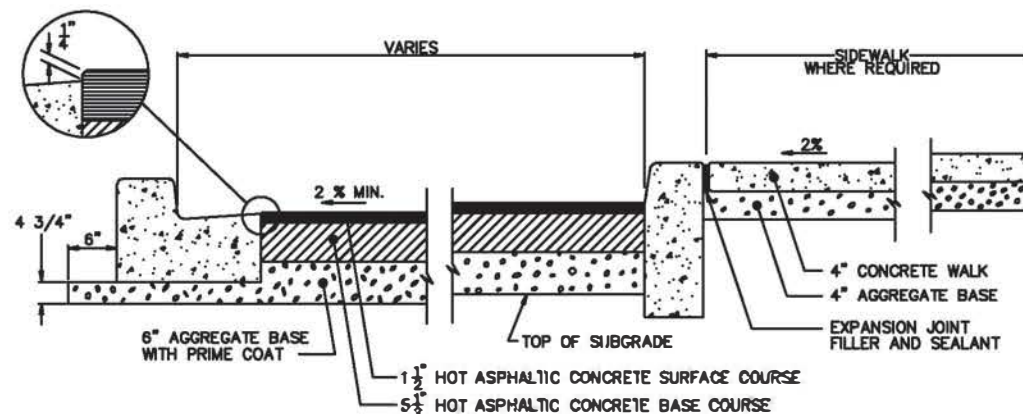
1. TYPICAL PAVEMENT SECTION SHALL BE USED FOR BUS TRAVELED AREAS AT BUS BAYS, SHARP TURNS AND LOCATIONS WHERE BUS STOPPING AND STARTING IS ANTICIPATED.
2. SEE RIGID PAVEMENT JOINT LAYOUT PLAN.
3. PROVIDE EXPANSION JOINTS AT 300' MAXIMUM INTERVALS AT UNSYMMETRICAL INTERSECTIONS, AT ABUTTING CONCRETE PAVEMENTS AND AT BRIDGE APPROACHES.

**GENERAL NOTES**

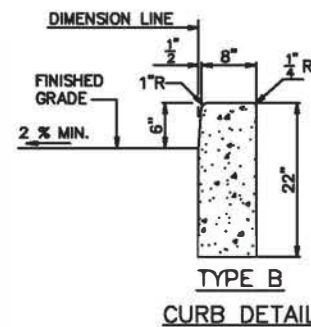
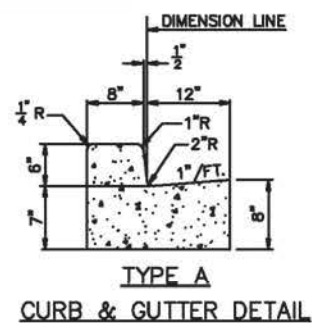
1. THIS DRAWING APPLIES TO METRO ON-SITE LOCATIONS.
2. PAVEMENTS:
  - A. ASPHALT INSTITUTE AND PORTLAND CEMENT ASSOCIATION CRITERIA APPLY.
  - B. MINIMUM SOIL STRENGTH CBR-9
  - C. DESIGN PERIOD 20 YEARS
  - D. TRAFFIC 200 BUSES PER HOUR  
1000 CARS PER DAY
  - E. LOAD (BUSES) 25,000 POUNDS EQUIVALENT  
SINGLE AXLE LOAD
3. USE TYPE A CURB AND GUTTER ON LOW SIDE AND TYPE B CURB ON HIGH SIDE OF PAVEMENT CROSS SLOPE.
4. FOR BUS TRAVELED AREAS AT BUS BAYS, SHARP TURNS AND LOCATIONS WHERE BUS STOPPING AND STARTING IS ANTICIPATED, SECTION A SHALL BE USED.
5. CROWN OR SLOPE ENTRANCE ROADWAYS AS REQUIRED, 2% MIN. DESIRABLE CROSS SLOPE.
6. MODIFIED TYPE A CURB AND GUTTER, GUTTER PAN MAINTAINS THE SAME CROSS SLOPE AS THE PAVEMENT.
7. CBR OF NATURAL SUBGRADE AND IMPROVED SOIL AREAS SHOULD BE ESTIMATED FROM THE AVAILABLE SOIL TEST DATA. THE PAVEMENT SECTIONS PRESENTED ON THE CIVIL STANDARD DRAWINGS HAVE BEEN DESIGNED FOR A SUBGRADE STRENGTH OF CBR-9. IF THE LOCAL SOIL CONDITIONS DO NOT MEET THIS STRENGTH REQUIREMENT, THE SECTION DESIGNER SHALL EITHER DEVISE A CONSTRUCTION METHOD TO IMPROVE THE SOIL SUBGRADE TO THE CBR-9 OR PROVIDE NEW PAVEMENT DESIGN.



**TYPICAL PAVEMENT SECTION B  
PARKING AREAS FOR PASSENGER CARS ONLY**



**TYPICAL PAVEMENT SECTION C  
ENTRANCE ROADWAYS**



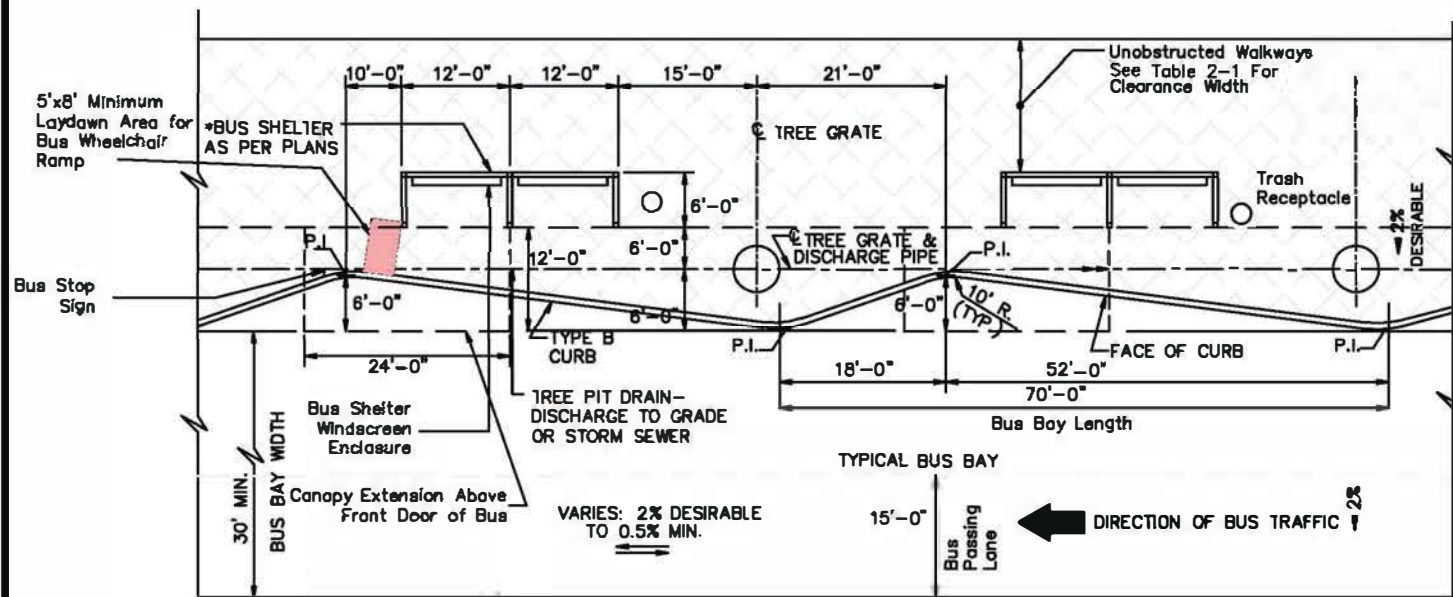
DESIGNED		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	
1		08/2007	ENGA	REVISED AND ISSUED BY THE AUTHORITY	

**WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY**  
OFFICE OF ENGINEERING SUPPORT SERVICES

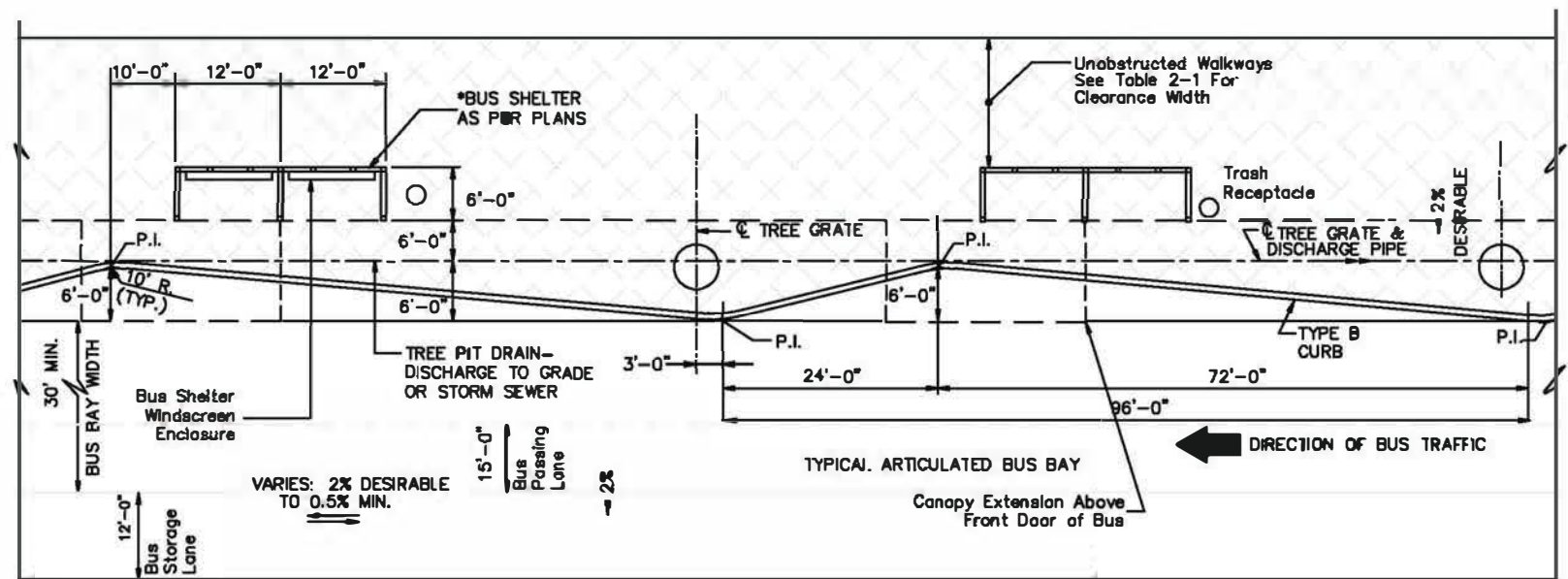
SUBMITTED *UR Padgett* 10/2007 DATE  
APPROVED *[Signature]* 10/2007 DATE

**CIVIL STANDARD DRAWING  
METRO PAVEMENT SECTIONS AND DETAILS**

SCALE: NOT TO SCALE  
DRAWING NO. ST-C-017



PLAN-BUS STALLS WITH BUS SHELTER



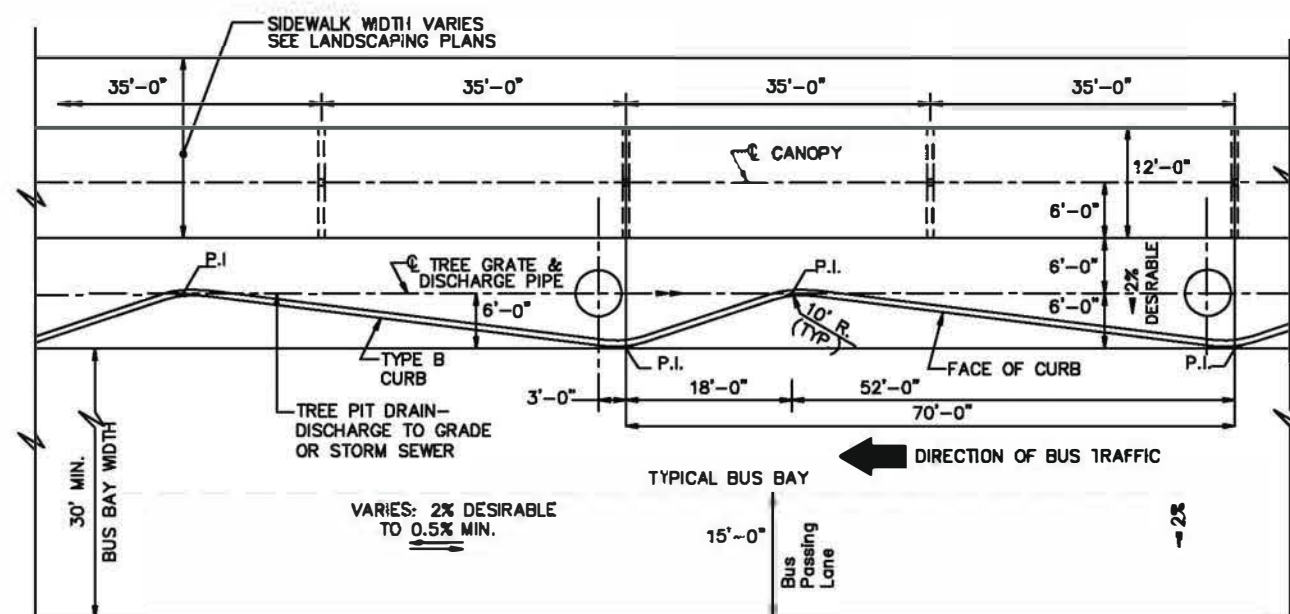
PLAN-ARTICULATED BUS STALLS WITH BUS SHELTER

TOTAL NUMBER OF BUS STALLS IN SERIES	MINIMUM UNOBSTRUCTED SIDEWALK WIDTH (FEET)*
1	6
2	6
3	6
4	8
5	10
6	12

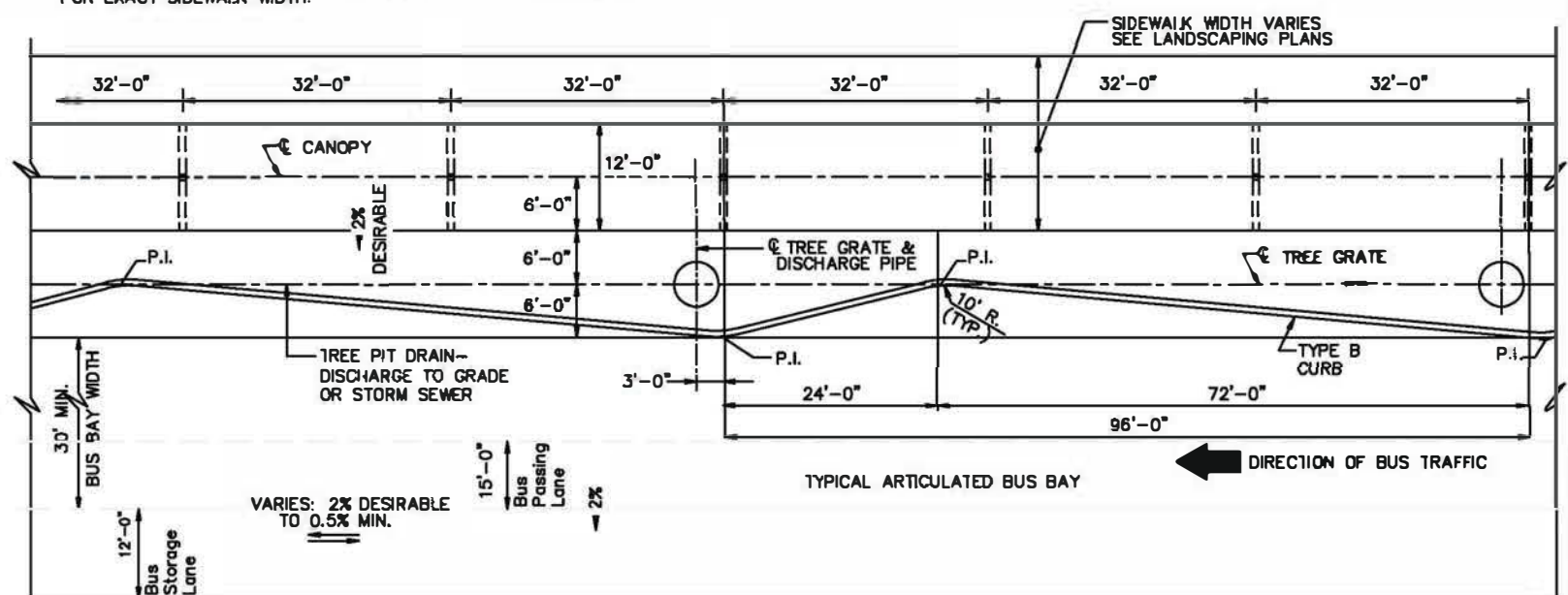
\* MINIMUM UNOBSTRUCTED SIDEWALK WIDTH IS THE CONTINUOUS SIDEWALK WIDTH CLEAR OF INTERFERENCE WITH SHELTER SUPPORTS, BENCHES, WINDSCREENS, ETC. SEE LANDSCAPE PLANS FOR EXACT SIDEWALK WIDTH.

GENERAL NOTES

- GEOMETRICS:
  - AASHTO POLICIES APPLY.
  - BUS TURNS 55' MINIMUM RADIUS AT CURB



PLAN-BUS STALLS WITH CANOPY



PLAN-ARTICULATED BUS STALLS WITH CANOPY



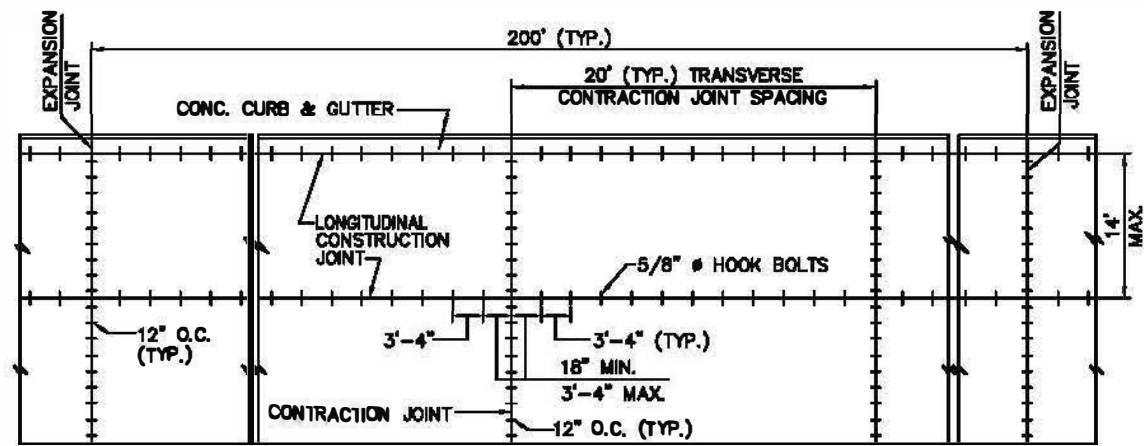
DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
T. RHODES	3/08	ST-C-017	METRO PAVEMENTS SECTIONS & DETAILS	5/08	ENSS	REVISED AND ISSUED BY THE AUTHORITY
R. WILLIAMS	5/08					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 OFFICE OF ENGINEERING SUPPORT SERVICES

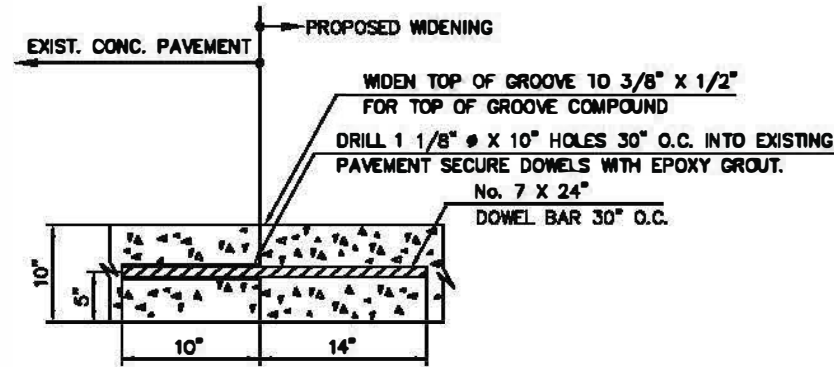
SUBMITTED *URP* 10/2007 DATE  
 APPROVED *[Signature]* 10/2007 DATE

CIVIL STANDARD DRAWING  
 METRO PAVEMENT BUS STALL PLANS

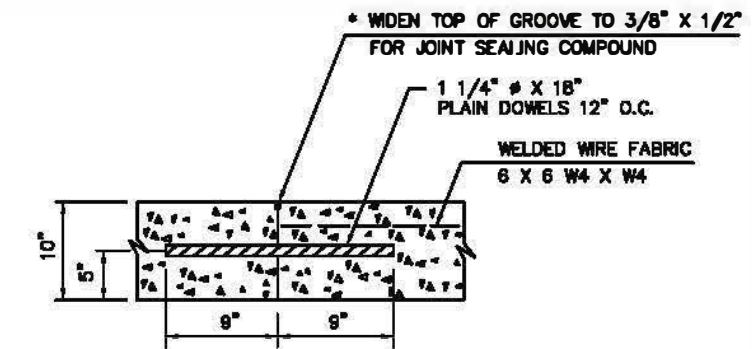
SCALE \_\_\_\_\_ DRAWING NO. ST-C-018



TYPICAL JOINT PLAN FOR LOAD TRANSFER DEVICES  
DETAIL-1

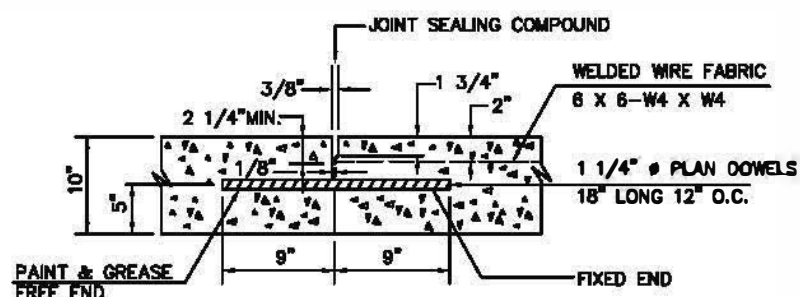


METHOD OF WIDENING CONC. PAVEMENT  
DETAIL-4

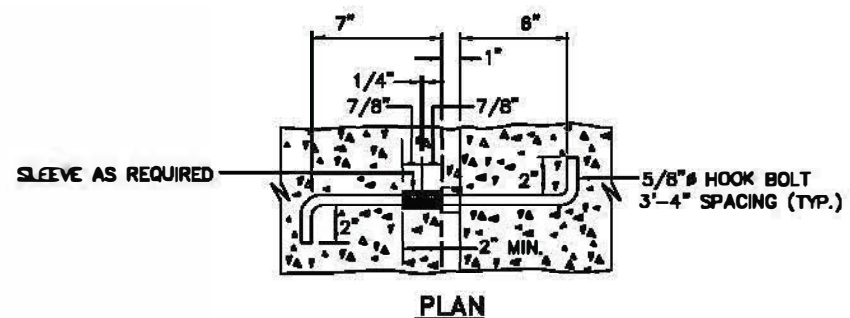


TRANSVERSE CONSTRUCTION (BUTT) JOINT  
DETAIL-6

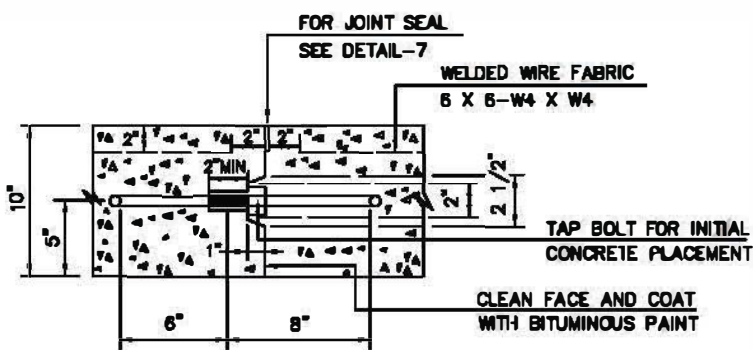
\* IF JOINT COINCIDES WITH SPECIFIED JOINT, CONSTRUCT IN ACCORDANCE WITH DETAIL SHOWN.



CONTRACTION JOINT  
DETAIL-2

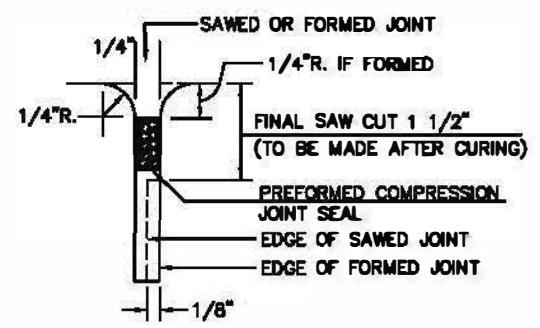


PLAN

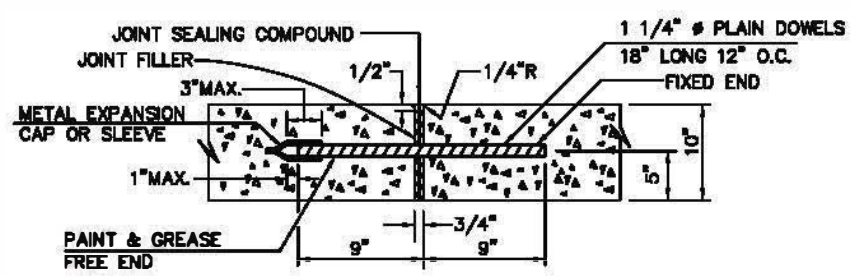


SECTION

TIE ROD ASSEMBLY & LONGITUDINAL CONSTRUCTION JOINT  
DETAIL-5



JOINT SEAL  
DETAIL-7

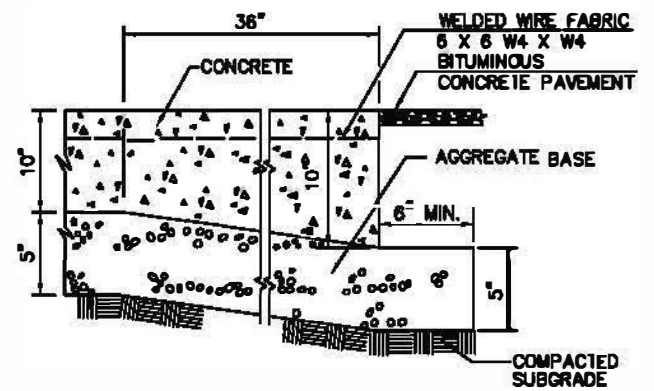
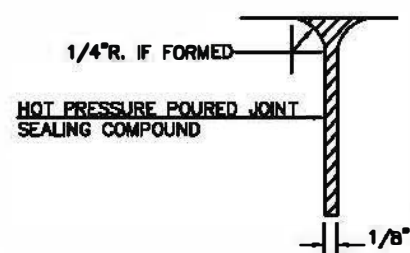


TRANSVERSE EXPANSION JOINT  
DETAIL-3

NOTE:  
A BOND BREAKING MATERIAL IS TO BE PROVIDED BETWEEN THE JOINT FILLER AND JOINT SEALING COMPOUND.

GENERAL NOTES

1. ALL LONGITUDINAL AND TRANSVERSE JOINTS SHALL HAVE LOAD TRANSFER DEVICES AS SHOWN.
2. PROVIDE BOND BREAKER COMPOUND AROUND FIXED STRUCTURES (MANHOLES, INLETS, ETC.) BEFORE PLACING THE CONCRETE PAVEMENT.



CONC. PAVEMENT THICKENED EDGE  
DETAIL-8

DESIGNED		DRAWN		CHECKED		APPROVED	
AA	RZM	AM	BUSD	REIN	PROBCK	EY	LIU
4-01	50%	4-01	50%	4-01	50%	4-01	50%

REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	DESCRIPTION
		06/2007	ENGA REVISED AND ISSUED BY THE AUTHORITY

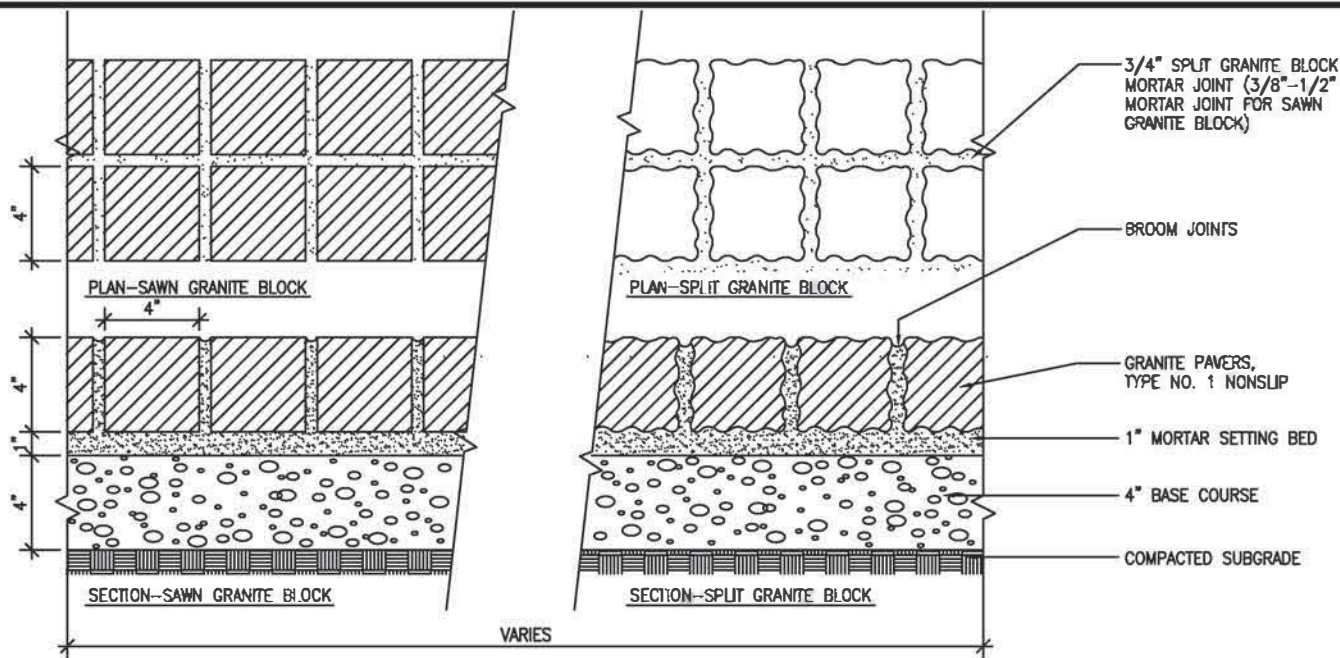
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
OFFICE OF ENGINEERING SUPPORT SERVICES

SUBMITTED *VR Padgett* 10/2007 DATE  
APPROVED *[Signature]* 10/2007 DATE

CIVIL STANDARD DRAWING  
JOINT DETAILS FOR CONCRETE PAVEMENT

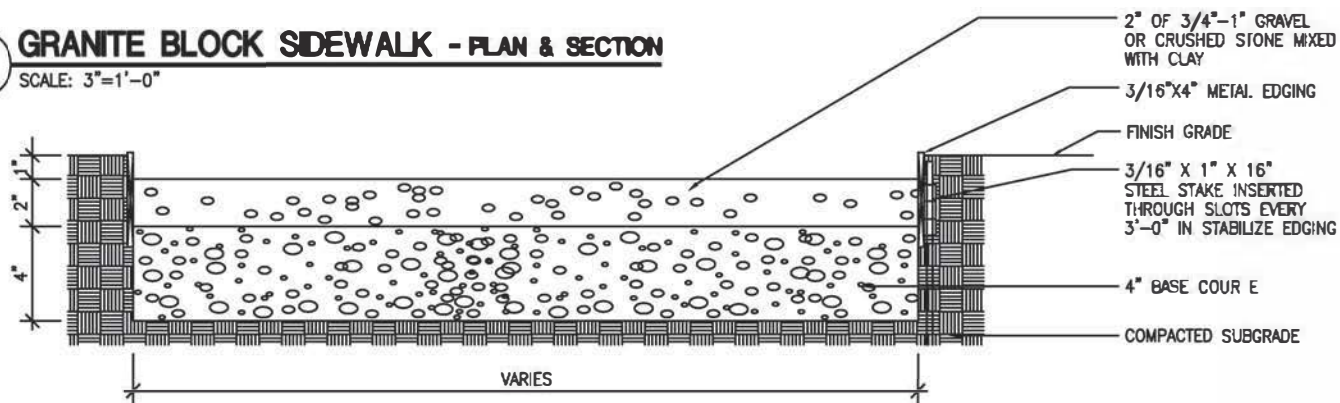
SCALE: NOT TO SCALE  
DRAWING NO.: ST-C-072





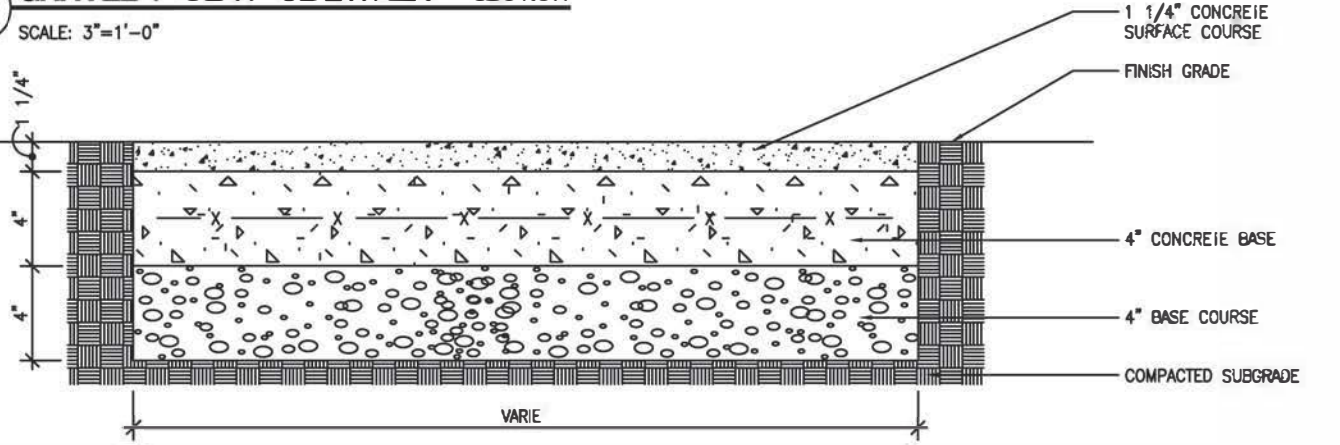
**1 GRANITE BLOCK SIDEWALK - PLAN & SECTION**

SCALE: 3"=1'-0"



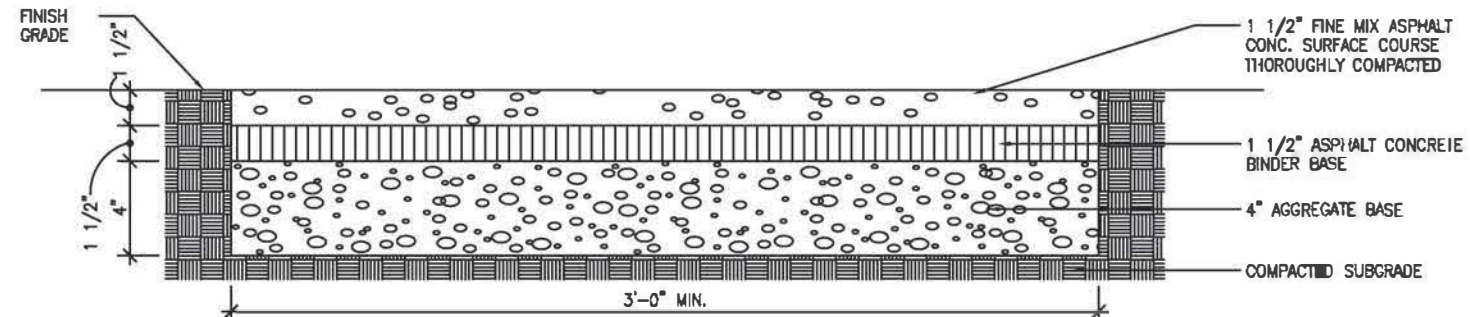
**2 GRAVEL / CLAY SIDEWALK - SECTION**

SCALE: 3"=1'-0"



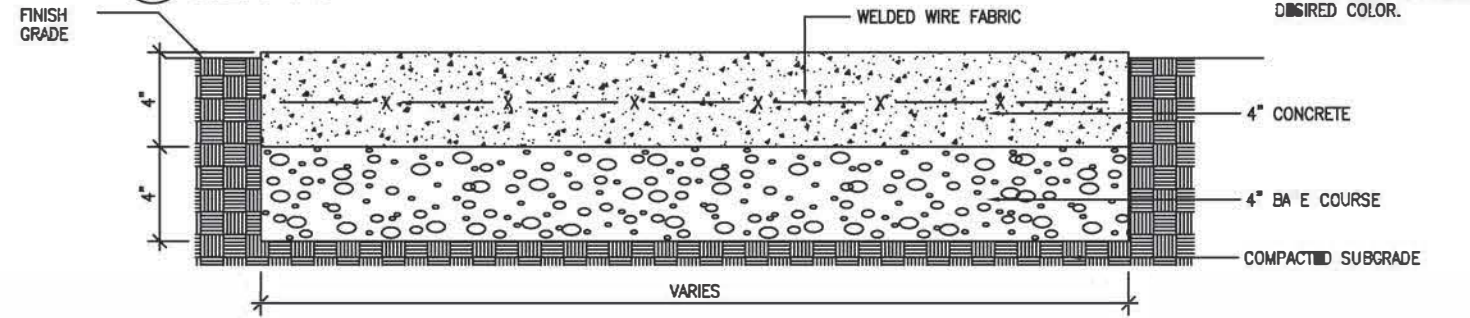
**3 EXPOSED AGGREGATE SIDEWALK - SECTION**

SCALE: 3"=1'-0"



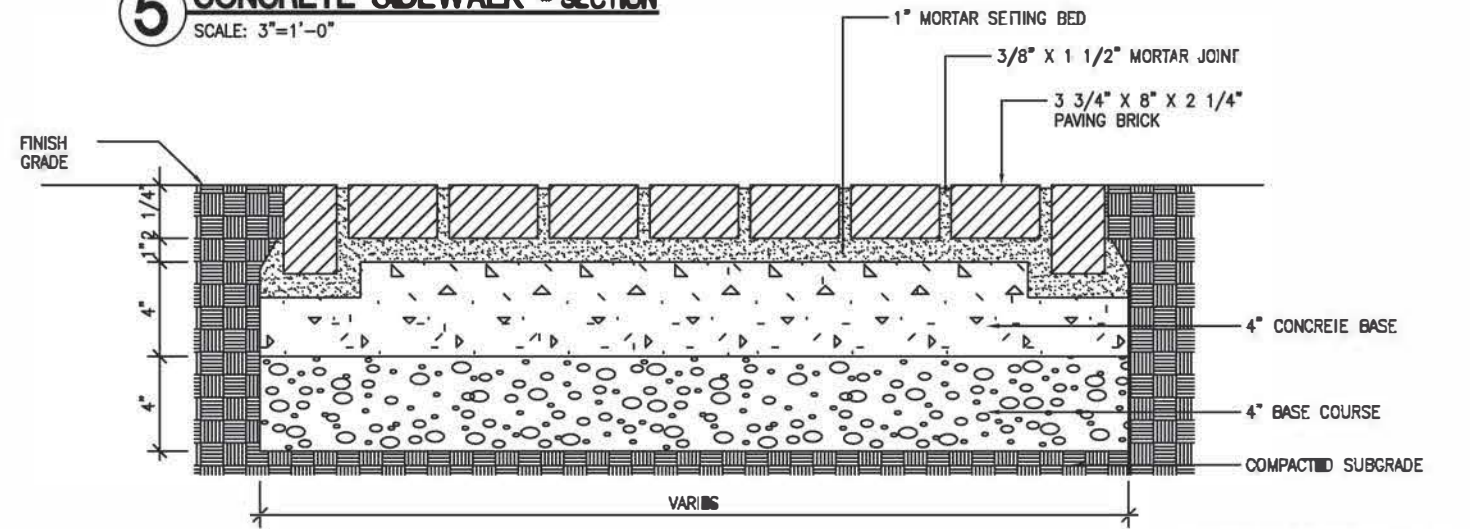
**4 ASPHALT SIDEWALK - SECTION**

SCALE: 3"=1'-0"



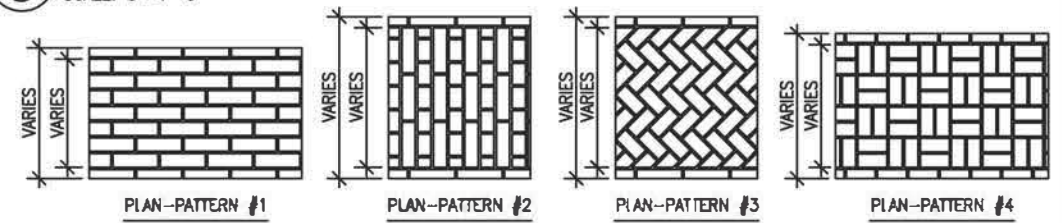
**5 CONCRETE SIDEWALK - SECTION**

SCALE: 3"=1'-0"



**6 BRICK SIDEWALK - SECTION**

SCALE: 3"=1'-0"



**7 BRICK PATTERN - PLANS**

SCALE: 1 1/2"=1'-0"

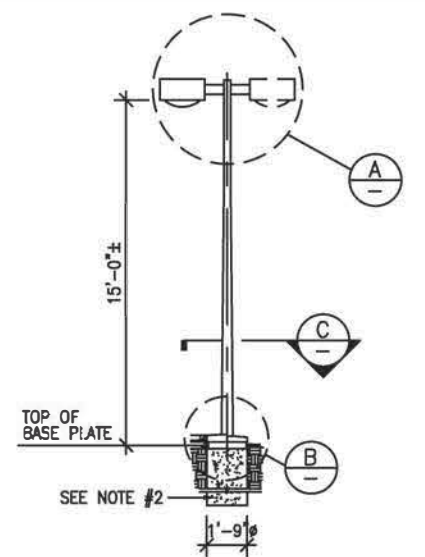
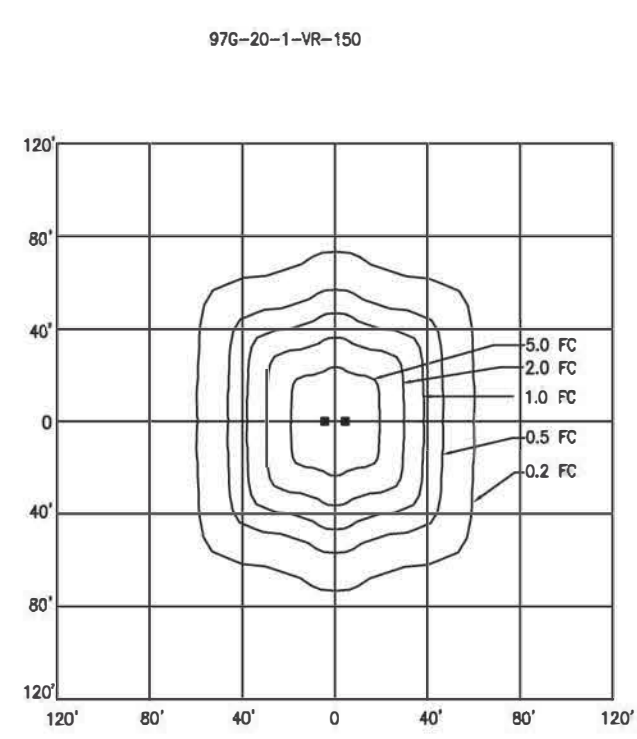
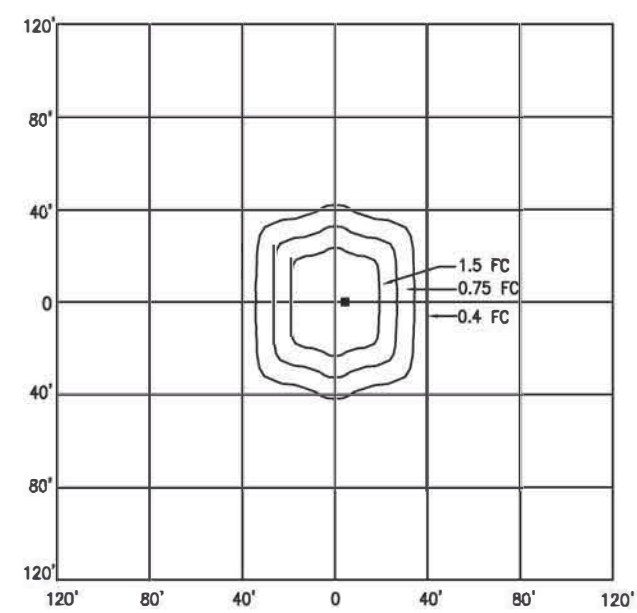
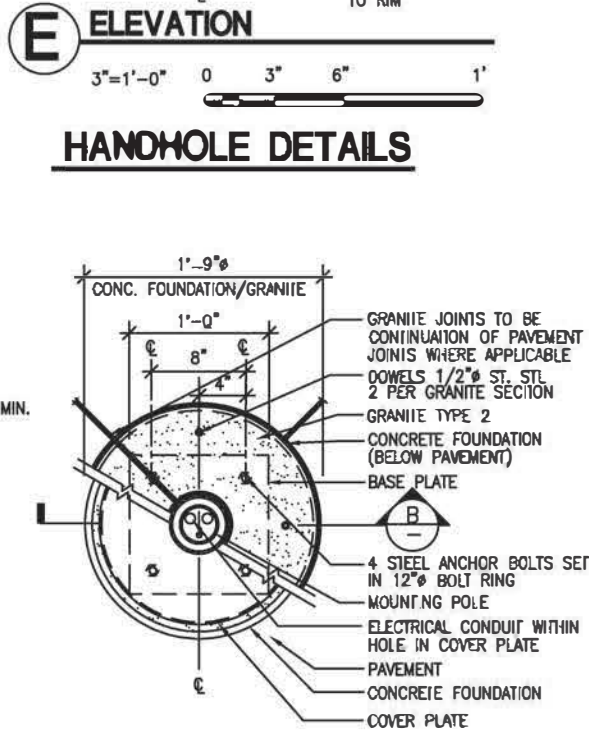
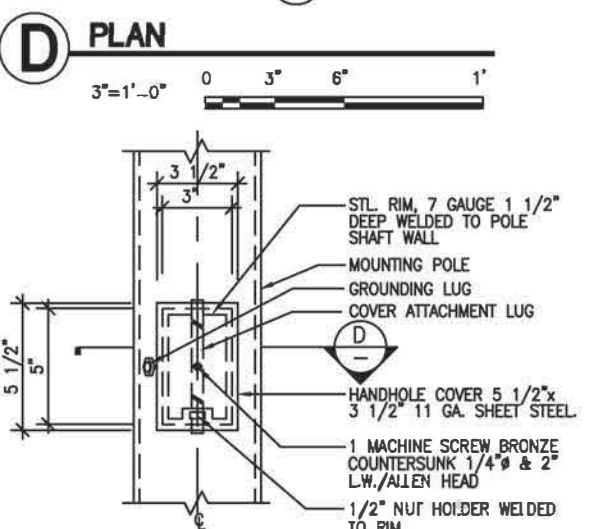
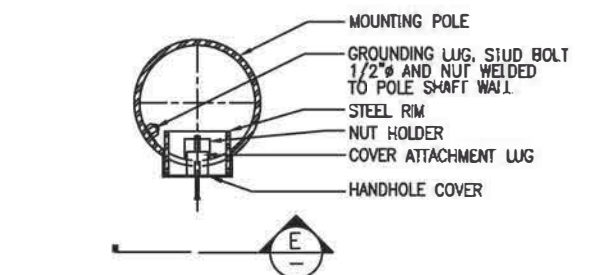
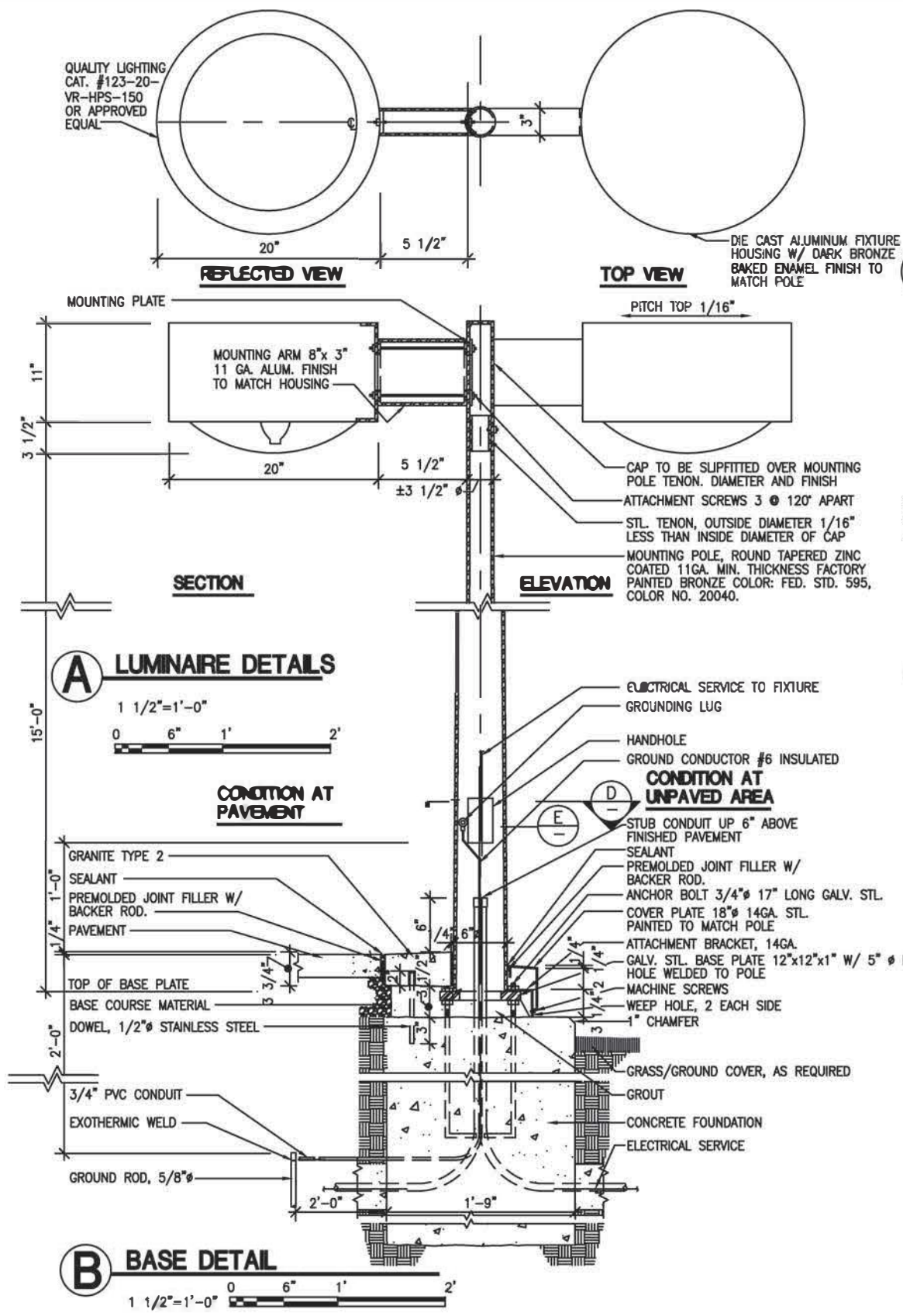
NOTE: 1. PAVEMENT TO HAVE 2%-3% CROSS SLOPE.  
2. PIGMENTED ASPHALT MASTIC MAY BE USED TO ACQUIRE DESIRED COLOR.

NOTE: PAVING PATTERN MAY VARY ACCORDING TO DESIGN.

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
DESIGNED	D. MUNSON	1998					
DRAWN	M. GREY	1998					
CHECKED	A. DICKINSON	1998					
APPROVED	J. CORLEY	1998					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
 DEPARTMENT OF TRANSIT SYSTEM DEVELOPMENT  
 OFFICE OF ENGINEERING AND ARCHITECTURE  
 SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_ APPROVED \_\_\_\_\_ DIRECTOR \_\_\_\_\_ May 3, 2001 DATE \_\_\_\_\_

LANDSCAPE DESIGN DRAWING  
 SIDEWALK DETAILS  
 SCALE: 1 1/2"=1'-0"  
 3"=1'-0"  
 DRAWING NO. DD-A-LA-002



**FIXTURE ELEVATION**  
1/4"=1'-0"  
0 3' 6' 12'

- NOTES:**
- U.L. CERTIFICATION: PROVIDE FIXTURES CONFORMING TO N.E.C. REQUIREMENTS FOR WET LOCATIONS.
  - WHEN CONDUIT IS ROUGHED-IN PROVIDE TEMPORARY CONDUIT CAPS TO INSURE THE EXCLUSION OF DIRT DURING SUBSEQUENT CONSTRUCTION AND UNTIL INSTALLATION OF LIGHTING FIXTURE.
  - SEE STRUCTURAL DWG'S. FOR FOOTING DEPTH AND REINFORCEMENT.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
D. MUNSON	1998			08/2001	ENG A Revised and issued by the Authority
N. OEBELE	1998				
K. LAMDESZ	1998				
J. CORLEY	1998				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY  
DEPARTMENT OF TRANSIT SYSTEM DEVELOPMENT  
OFFICE OF ENGINEERING AND ARCHITECTURE

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_ APPROVED \_\_\_\_\_ DIRECTOR \_\_\_\_\_ May 3, 2001 DATE

ARCHITECTURAL STANDARD DRAWING  
STANDARD EXTERIOR LIGHTING  
FIXTURE 97G-15

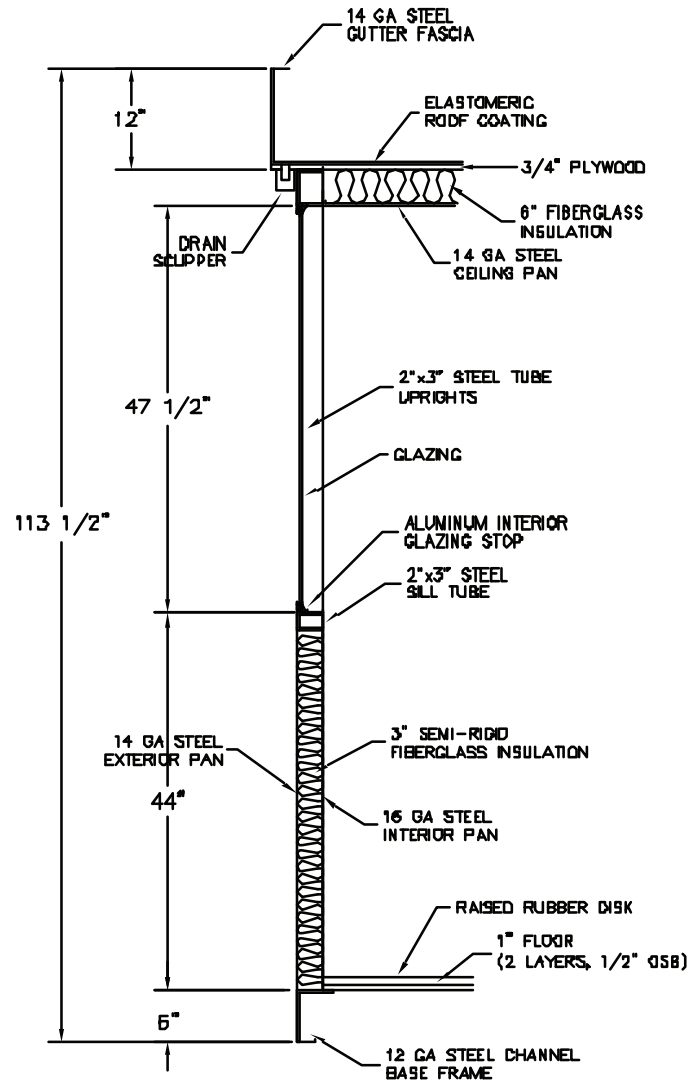
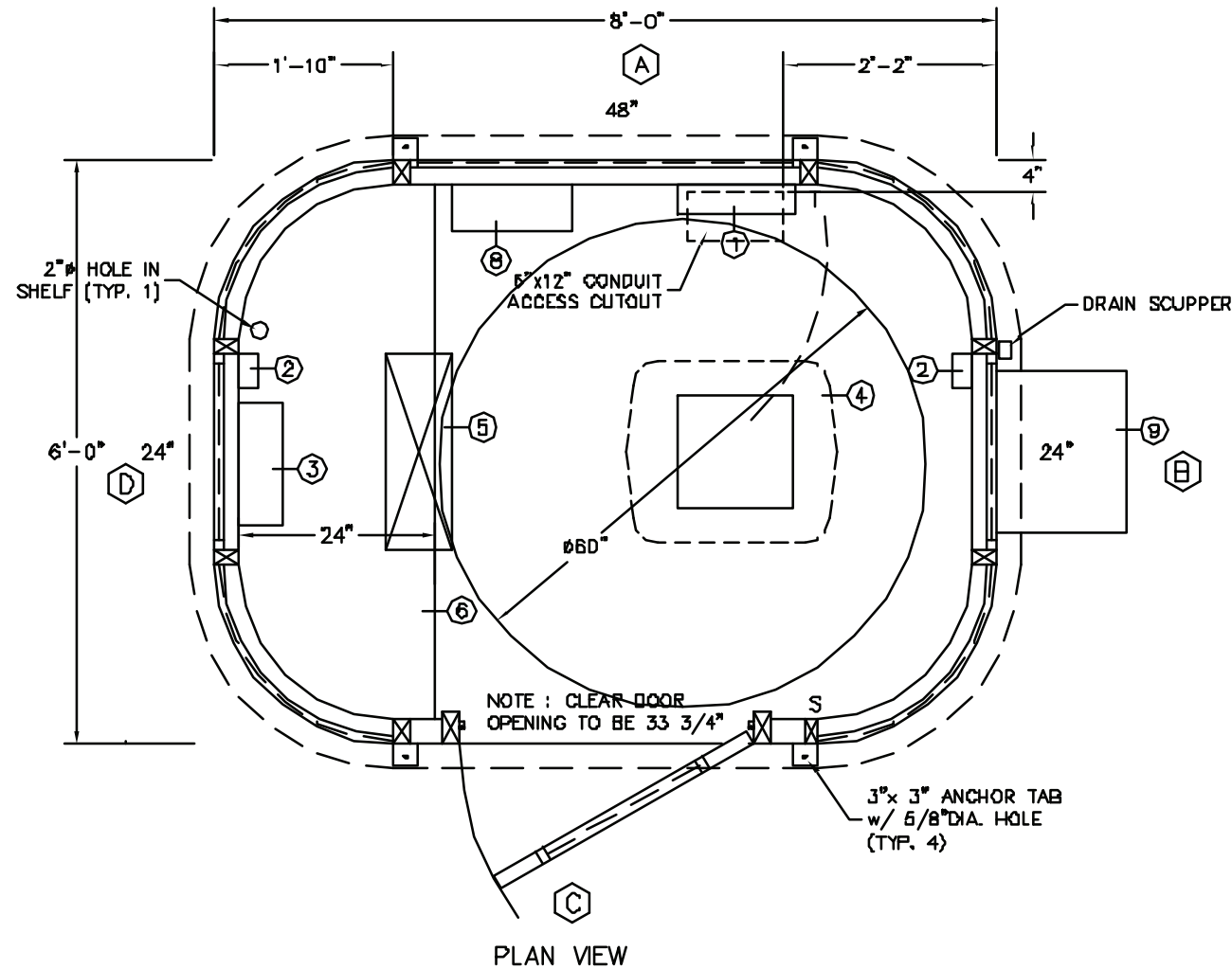
SCALE AS SHOWN DRAWING NO. ST-A-LT-010

**Appendix # 1**  
**Manager's Kiosk**

THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PRODUCED IN ACCORDANCE WITH PORTA-KING'S PROPOSAL AND THE PROJECT DESIGN. THE PROJECT WILL BE MANUFACTURED IN ACCORDANCE TO THIS INFORMATION AS SUBMITTED. THE SECURING OF BUILDING PERMITS AND COMPLIANCE WITH APPROPRIATE BUILDING CODES IS NOT THE RESPONSIBILITY OF PORTA-KING, BUT IS THE RESPONSIBILITY OF THE PURCHASER OF THE BUILDING.

- APPROVED AS SUBMITTED, RELEASE FOR MANUFACTURING
- APPROVED AS NOTED, RELEASE FOR MANUFACTURING
- REVISE AND RESUBMIT

SIGN : \_\_\_\_\_ DATE : \_\_\_\_\_



WALL SECTION DETAIL

**DURASTEEL RAD86SW BUILDING NOTES :**

- ①— 100 AMP, 120/240V SINGLE PHASE, 12 CIRCUIT LOAD CENTER W/MAIN BKR.
  - ②— 115V QUAD OUTLET
  - ③— 230V 4000 WATT WALL MTD. HEATER (16.7 AMPS, WIRED DIRECT)
  - ④— 115V 13500 BTU ROOF MTD. A/C (15.3 AMPS) W/T-STAT
  - ⑤— 34 WATT SURFACE MTD. FLUORESCENT LIGHT (.3 AMPS) W/SWITCH
  - ⑥— 24" DEEP 14GA STEEL, PAINTED SHELF, 32" A.F.F.
  - ⑦— J-BOX W/CONDUIT AND PULL WIRE (ADVISE LOCATION)
  - ⑧— 100 AMP, SINGLE PHASE DISCONNECT SWITCH AND ENCLOSURE, HDL26100 AND J250R
  - ⑨— 277V PRIMARY, 120/240V SEC., SINGLE PHASE, 15 KVA TRANSFORMER EE15S61H W/WS363 WEATHERSHIELD AND WMB361362 WALL MTD. BRACKET
- \* 3" OVERHANG EXTERIOR ROOF W/12"H FASCIA
  - \* 90 1/2" INTERIOR HEIGHT
  - \* 4- 22" RADIUS CORNERS W/ 1/8" TINTED POLYCARBONATE
  - \* 1- STEEL DOOR 3068 W/SLIDE WDW, DOUBLE KEY DEADBOLT, 10"x34" SS KICKPLATES, AND LEVER LOCKSET
  - \* GLAZING- 3/16" TINTED TEMPERED GLASS, EXCEPT RADIUS WDWs
  - \* 4- 1" ALUMINUM MINI BLINDS, ON SOUTH AND WEST FACING SIDES (ADVISE)
  - \* INSULATION- WALLS R-12, CEILING R-19
  - \* RAISED RUBBER DISK FLOOR
  - \* TAMPERPROOF FASTENERS FOR ELECTRICAL ITEMS
  - \* BUILDING PAINTED- ADVISE COLOR
  - \* UL CERTIFICATION FOR COMPLIANCE WITH THE NEC

**PORTA-KING BUILDING SYSTEMS**

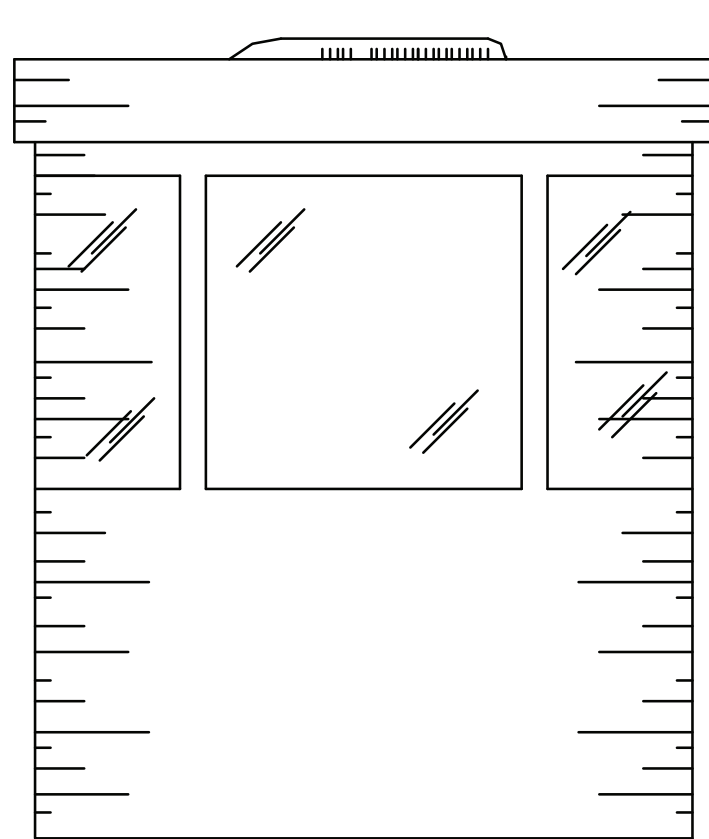
4133 SHORELINE DRIVE EARTH CITY, MISSOURI 63045  
1-800-BUILDING 314-291-4200 FAX 314-291-2857

TITLE WMATA KIOSK FAIRFAX, VA		ALLIED METAL GROUP MODEL RAD86SW	
JOB NO. (BD09801)	DRAWN BY KCD	SHEET 1 OF 2	
SCALE	DATE 4-19-13 REVISED 8-1-13		

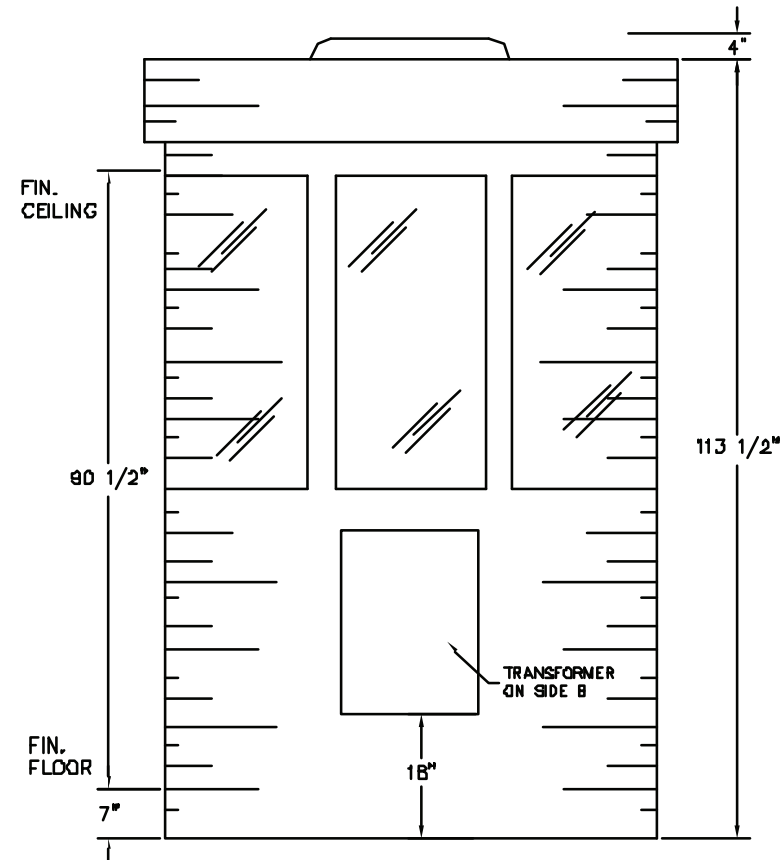
THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PRODUCED IN ACCORDANCE WITH PORTA-KING'S PROPOSAL AND THE PROJECT DESIGN. THE PROJECT WILL BE MANUFACTURED IN ACCORDANCE TO THIS INFORMATION AS SUBMITTED. THE SECURING OF BUILDING PERMITS AND COMPLIANCE WITH APPROPRIATE BUILDING CODES IS NOT THE RESPONSIBILITY OF PORTA-KING, BUT IS THE RESPONSIBILITY OF THE PURCHASER OF THE BUILDING.

- APPROVED AS SUBMITTED, RELEASE FOR MANUFACTURING
- APPROVED AS NOTED, RELEASE FOR MANUFACTURING
- REVISE AND RESUBMIT

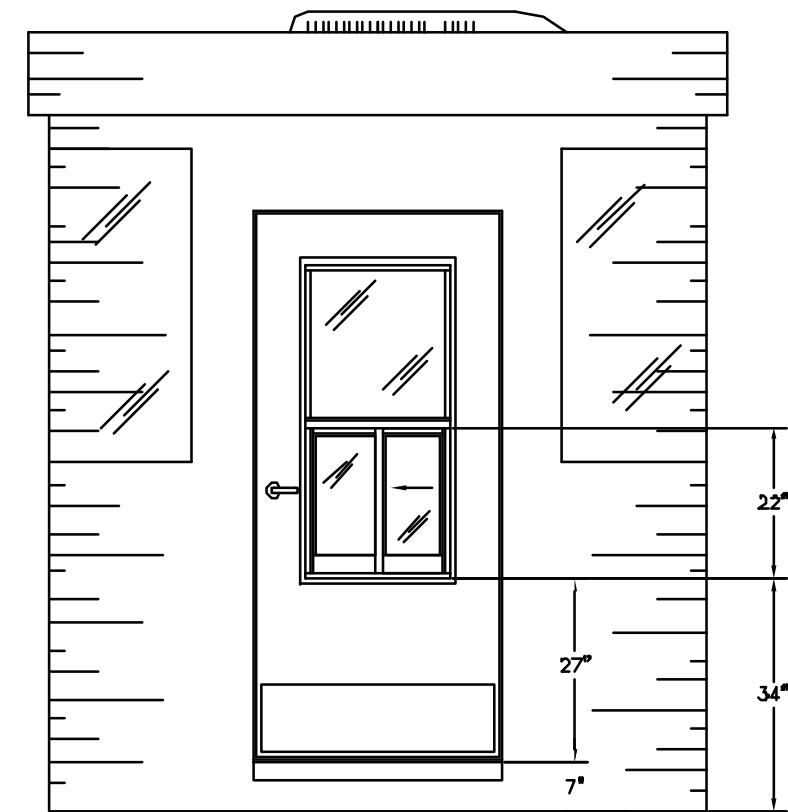
SIGN : \_\_\_\_\_ DATE : \_\_\_\_\_



ELEVATION A



ELEVATION B AND D



ELEVATION C

**PORTA-KING BUILDING SYSTEMS**

4133 SHORELINE DRIVE EARTH CITY, MISSOURI 63045  
 1-800-BUILDING 314-291-4200 FAX 314-291-2857

TITLE WMATA KIOSK FAIRFAX, VA		ALLIED METAL GROUP MODEL RAD86SW	
JOB NO. (BD09801)	DRAWN BY KCD	SHEET 2 OF 2	
SCALE	DATE 4-19-13 REVISED 8-1-13		

Product data sheet  
Characteristics

EE15S61H  
15KVA TP1 277V-120/240V

Product availability: Non-Stock - Not normally stocked in distribution facility  
Price\*: 4506.00 USD

Main	
Commercial Status	Commercialised
Product or component type	Energy Efficient Transformer
Box number	17D
NEMA degree of protection	NEMA 2
Insulation temperature	428 °F (220 °C)
Network number of phases	1 phase
Primary voltage	277 V
Rated power in VA	15 kVA
Secondary voltage	120/240 V
Number of tap-offs	2.5 % FCBN
Temperature rise	150 °C
Material	Aluminium

Ordering and shipping details

Category	16284 - 1 PH EE/TP1 LVGP XFMR
Discount Schedule	PE2E
GTIN	00785901609889
Nbr. of units in pkg.	1
Package weight(Lbs)	215.00
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N

Contractual warranty

Period	18 months
--------	-----------

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. \*Prices are indicative



Style A—NEMA 3R Rated      Style B—NEMA 3R Rated



Style C—NEMA 3R Rated



Styles D and H—NEMA 2 Rated  
Converts to NEMA 3R with Weathershield



Style E—IP55 Rated



Style F—NEMA 1 Rated

14 TRANSFORMERS

Enclosures and Accessories

Table 14.23: Enclosure Dimensions and Accessories ▲

Enclosure Number/Style		Height		Width		Depth		Mounting	Weathershield	Wall Mounting Bracket	Ceiling Mounting Bracket	Insulation Class °C
		In.	mm	In.	mm	In.	mm					
1	A	5.00	127	4.47	114	3.44	87	Wall	■	◆	—	105
2	A	5.50	140	4.47	114	3.44	87	Wall	■	◆	—	105
3	A	5.00	127	4.85	123	3.75	95	Wall	■	◆	—	105
4	A	5.50	140	5.23	133	4.06	103	Wall	■	◆	—	130
5	A	6.19	157	6.19	157	4.69	119	Wall	■	◆	—	130
6	A	6.69	170	6.19	157	4.69	119	Wall	■	◆	—	180
7	A	8.13	207	6.94	176	5.31	135	Wall	■	◆	—	180
8	A	8.25	210	8.68	220	6.56	167	Wall	■	◆	—	180
9	A	9.56	243	8.68	220	6.56	167	Wall	■	◆	—	180
10	A	10.50	267	8.62	219	6.50	165	Wall	■	◆	—	180
11	A	12.56	319	8.62	219	6.50	165	Wall	■	◆	—	180
12	C	13.50	343	14.75	375	9.00	229	Wall	■	◆	—	180
13	B	14.75	375	9.75	248	11.75	298	Wall	■	◆	—	180
14	C	14.75	375	19.10	485	12.25	311	Wall	■	◆	—	180
15	B	20.00	508	15.00	381	13.50	343	Wall	■	◆	—	180
16	C	22.00	559	25.00	635	13.50	343	Wall	■	◆	—	180
17	D	27.00	686	20.00	508	16.00	406	Floor	WS363	WMB361362	CMB363	220
	E	27.00	686	20.00	508	16.00	406	Floor	▼	WMB361362	CMB363	220
	H	37.00	940	20.00	508	16.00	406	Floor	WS363	WMB361362	CMB363	220
18	D	30.00	762	20.00	508	20.00	508	Floor	WS363	WMB363364	CMB363	220
	H	37.00	940	20.00	508	20.00	508	Floor	WS363	WMB363364	CMB363	220
19	D	30.00	762	30.00	762	20.00	508	Floor	WS364	WMB363364	CMB364	220
	E	30.00	762	30.00	762	20.00	508	Floor	▼	WMB363364	CMB364	220
20	D	37.00	940	30.00	762	20.00	508	Floor	WS364	WMB363364	CMB364	220
	E	37.00	940	30.00	762	20.00	508	Floor	▼	WMB363364	CMB364	220
21	D	37.00	940	30.00	762	24.00	610	Floor	WS364	—	CMB364	220
	E	37.00	940	30.00	762	24.00	610	Floor	▼	—	CMB364	220
22	D	43.75	1111	32.00	813	27.00	686	Floor	WS380	—	CMB380	220
	E	43.75	1111	32.00	813	27.00	686	Floor	▼	—	CMB380	220
23	E	48	1219	48	1219	29.5	749	Floor	▼	—	—	220
	D	49.5	1257	35	889	28.5	724	Floor	WS381	—	CMB381	220
24	E	49.5	1257	35	889	28.5	724	Floor	Note 5	—	CMB381	220
	D	49.5	1257	41	1041	32	813	Floor	WS382	—	—	220
25	E	49.5	1257	41	1041	32	813	Floor	▼	—	—	220
	D	57.5	1461	41	1041	32	813	Floor	WS382	—	—	220
28	D	60	1524	56	1422	36	914	Floor	WS370A	—	—	220
	E	60	1524	56	1422	36	914	Floor	▼	—	—	220
29	D	68	1727	56	1422	36	914	Floor	WS370A	—	—	220
30	D	71	1803	48	1219	36	914	Floor	WS383	—	—	220
31	D	74	1880	56	1422	40.5	1029	Floor	WS384	—	—	220
31	E	60	1524	56	1422	36	914	Floor	▼	—	—	220
32	F	91.5	2388	56	1422	54	1372	Floor	★	—	—	220
33	F	94	2388	72	1829	54	1372	Floor	★	—	—	220
34	F	94	2388	84	2134	54	1372	Floor	★	—	—	220
35	F	94	2388	96	2438	54	1372	Floor	★	—	—	220
36	D	40.5	1031	36	916	21.75	553	Floor	★	—	—	220
37	D	51.5	1310	40.5	1031	26.5	674	Floor	★	—	—	220
38	D	66	1679	50.5	1285	32	814	Floor	★	—	—	220
39	F	90	2290	80	2036	50	1272	Floor	★	—	—	220
40	F	90	2290	90	2290	50	1272	Floor	★	—	—	220
41	F	100	2545	100	2545	60	1527	Floor	★	—	—	220
42	F	108	2748	108	2748	60	1527	Floor	★	—	—	220
43	F	90	2290	64	1628	44	1120	Floor	★	—	—	220
44	F	90	2290	72	1832	50	1272	Floor	★	—	—	220

- ▲ These dimensions are not for construction. Contact your local Schneider Electric sales office for certified prints.
- Transformer is NEMA 3R Standard. Weathershield not required for outdoor use.
- ◆ Wall mounting brackets are a standard part of transformer enclosure. Accessory not required.
- ★ Special outdoor construction required for NEMA 3R applications. Contact your local Schneider Electric sales office for details.
- ▼ Indoor/outdoor enclosure standard. Weathershield not required.

**NOTE:** Wall mounting brackets can only be used with units weighing no more than 700 lbs.  
Ceiling mounting brackets can only be used with units weighing no more than 1200 lbs.  
Weathershields are only available for units 600 Volts and below. For 2.4 kV, 5 kV, and 15 kV units suitable for outdoor use, contact the factory.

Product data sheet  
Characteristics

WS363  
WEATHERSHIELD

Product availability: Stock - Normally stocked in distribution facility  
Price\*: 299.00 USD

Main

Commercial Status	Commercialised
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Ordering and shipping details

Category	16270 - LVGP PARTS
Discount Schedule	PE2
GTIN	00785901357001
Nbr. of units in pkg.	1
Package weight(Lbs)	4.90
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	US

Contractual warranty

Period	18 months
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The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein. \*Prices are indicative



# WS363

Transformer Weathershield, Provides protection for outdoor usage



List Price \$460.00 USD

Availability **Stock Item: This item is normally stocked in our distribution facility.**

## Technical Characteristics

Application	Provides protection for outdoor usage
Catalog Reference Number	7400CT9601

## Shipping and Ordering

Category	16270 -
Discount Schedule	PE2
Article Number	785901357001
Package Quantity	1
Weight	5.26 lbs.
Availability Code	Stock Item: This item is normally stocked in our distribution facility.
Returnability	Y

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this document.

Product data sheet  
Characteristics

HDL36100  
Molded Case Circuit Breaker



by Schneider Electric

Product availability: Stock - Normally stocked in distribution facility  
Price\*: 1328.00 USD

Main

Commercial Status	Commercialised
Product or component type	Molded Case Circuit Breaker
Range of product	PowerPact H
[In] rated current	100 A
Poles description	3P
Breaking capacity	20 kA 250 V DC 14 kA 600 V AC 18 kA 480 V AC 25 kA 240 V AC
[Ue] rated operational voltage	250 V DC 600 V AC
[Ics] rated service short-circuit breaking capacity	80 %
Trip unit technology	Thermal-magnetic
Product certifications	CSA IEC UL listed
Mounting mode	Unit mount
Breaking capacity code	D
Electrical connection	Lugs line Lugs load
AWG gauge	14...3/0 AWG aluminium/copper
Magnetic hold current	900 A
Magnetic tripping current	1700 A

Ordering and shipping details

Category	01110 - HD,JD UNIT MT BREAKER/SWITCH
Discount Schedule	DE2
GTIN	00785901839934
Nbr. of units in pkg.	1
Package weight(Lbs)	4.19
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	US

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0832 -  Schneider Electric declaration of conformity

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Contractual warranty

Period

18 months

**Technical Characteristics**

Approvals	UL Listed - CSA Certified - IEC Rated
Catalog Reference Number	0611CT0401
Circuit Breaker Type	Standard
For Use With	Industrial Enclosures and Switchboards
General Application	Provides overload and short circuit protection
AC Magnetic Trip Setting	900A - 1700A Adjustable Trip
Ampere Rating	100A
Frame Type	H-Frame
HACR Rated	Yes
Marketing Trade Name	Powerpact
Voltage Rating	600VAC/250VDC
Mounting Type	Unit Mount
Number of Poles	3-Pole
Weight	5 Pounds
Short Circuit Current Rating	25kA@240VAC - 18kA@480VAC - 14kA@600VAC
Terminal Type	Line: Lug - Load: Lug
Type	HD
Wire Size	#14-3/0 AWG(Al/Cu)
Height	6.40 Inches
Width	4.12 Inches
Depth	4.36 Inches

**Shipping and Ordering**

Category	01110 -
Discount Schedule	DE2
Article Number	785901839934
Package Quantity	1
Weight	4.19 lbs.
Availability Code	Non-Stock Item: This item is not normally stocked in our distribution facility.
Returnability	Y

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this document.

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Product data sheet  
Characteristics

J250R  
CIRCUIT BREAKER ENCLOSURE



by Schneider Electric

Product availability: Stock - Normally stocked in distribution facility  
Price\*: 840.00 USD

Main

Commercial Status Commercialised

Ordering and shipping details

Category	00030 - IND CB ENCL NEMA 1,3R
Discount Schedule	DE1
GTIN	00785901607861
Nbr. of units in pkg.	1
Package weight(Lbs)	33.92
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	MX

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Will be Compliant on 3Q2014
REACH	Reference not containing SVHC above the threshold

Contractual warranty

Period	18 months
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