MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF
TRANSPORTATION ENGINEERING

FOREST GLEN
PEDESTRIAN PASSAGEWAY

GEORGIA AVENUE (MD 97) AT
FOREST GLEN ROAD (MD 192)

C.I.P. CONTRACT NO. 501911

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DESIGN DESIGNATION

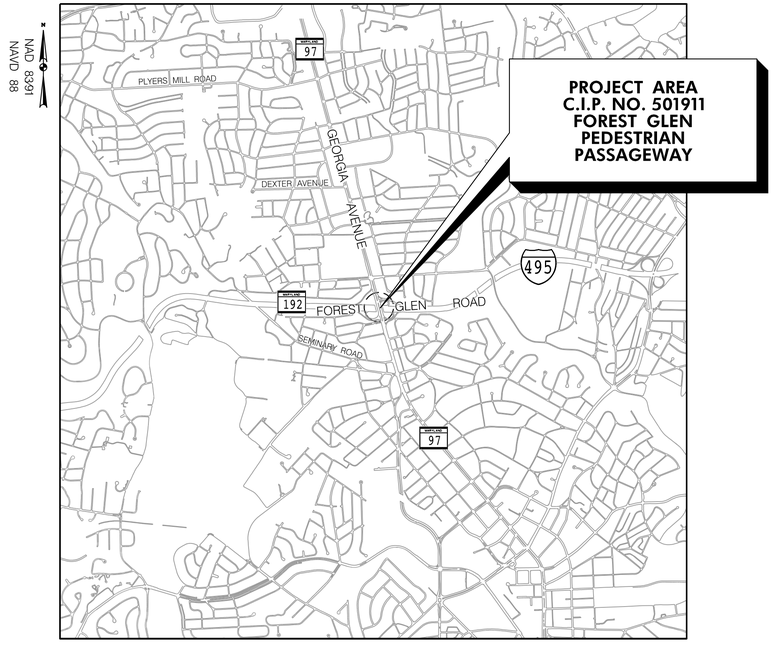
ROADWAY	MD 97		MD 192	
ROADWAY LENGTH (MILES)	-		-	
CONTROLS YEARS	2018	2040	2019	2039
AVERAGE DAILY TRAFFIC (A.D.T.)	83,650	93,350	9,200	10,100
DESIGN HOURLY VOLUME (D.H.V.)	7%	7%	11%	11%
DIRECTIONAL DISTRIBUTION	51%	51%	78%	78%
% TRUCKS (A.D.T.)	5%	5%	2%	2%
% TRUCKS (D.H.V.)	4%	4%	1%	1%
FUNCTIONAL CLASSIFICATION	URBAN OTHER PRINCIPAL ARTERIAL		URBAN COLLECTOR	
CONTROL OF ACCESS	NONE		NONE	
INTENSITY OF DEVELOPMENT	URBAN		URBAN	
TERRAIN	ROLLING		LEVEL	
DESIGN SPEED (M.P.H.)	35 MPH		30 MPH	
ANTICIPATED POSTED SPEED (M.P.H.)	30 MPH		30 MPH	
SHA CONTEXT ZONE	URBAN CENTER			

DRAINAGE STATEMENT

I understand that DPS approval of this sediment control/stormwater management plan is for demonstrated compliance with required environmental runoff treatment standards. This DPS sediment control/stormwater management plan approval does not relieve me of professional responsibility. I have analyzed the proposed design for sediment control permit no. _____ and hereby state that, based upon my background, training and experience, I have determined that the proposed improvements shown on this plan meet relevant laws and regulations. I further acknowledge that I have analyzed the post development drainage patterns for this project from the standpoint of my responsibilities under current Maryland Law and have determined that if permission is required from adjacent property owners, it has been obtained and copies of those permissions have been made available to DPS.

_____ _____
Engineer's Signature Date

_____
Printed Name



VICINITY MAP
SCALE: 1" = 2000'

HORIZONTAL DATUM	NAD 83/91
VERTICAL DATUM	NAVD 88 NGVD 29

•CIVIL/SITE VERTICAL DATUM IS NAVD 88
PASSAGEWAY VERTICAL DATUM IS NGVD29

MISS UTILITY

THE CONTRACTOR SHALL CALL "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL UNDERGROUND UTILITIES IN THE AREA OF PROPOSED WORK ARE LOCATED PRIOR TO COMMENCING CONSTRUCTION WORK. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE.

THE CONTRACTOR IS ALSO RESPONSIBLE FOR LOCATING ALL PRIVATE UTILITIES (NOT LOCATED BY MISS UTILITY) AT THEIR EXPENSE. ALL UTILITIES SHOWN ON THE PLANS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE CONSIDERED APPROXIMATE. ANY UTILITIES OR OTHER UNDERGROUND FACILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S SOLE EXPENSE.

RELATED REQUIRED PERMITS

To be completed by the consultant and placed on the first sheet of the Sediment Control/Stormwater Management plan set for all projects

IT IS THE RESPONSIBLITY OF PERMITTEE/OWNER OF THIS SITE TO OBTAIN ALL REQUIRED PERMITS PRIOR TO ISSUANCE OF THE APPROVED SEDIMENT CONTROL PERMIT:

TYPE OF PERMIT	REQ'D	NOT REQ'D	PERMIT NO.	EXPIRATION DATE	WORK RESTRICTION DATES
MCDPS Floodplain district		X			
WATERWAYS/WETLAND(S) a. Corps of Engineers		X			
b. MDE		X			
c. MDE Water Quality Certification		X			
MDE Dam Safety		X			
NPDES NOTICE OF INTENT	X		TBD		
OTHERS (Please List):					
WSSC	X		TBD		
Montgomery County Tree Canopy Construction Law Approval	X		TBD		
Historic Area Work Permit		X			
SHA Access Permit	X		TBD		
WMATA Site Specific / Work Plan Approvals	X		TBD		

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT.

_____ _____
SIGNATURE MCDOT DIV/TRANSPORATION ENGINEERING SECTION DATE

_____
PRINTED NAME AND TITLE

DESIGN CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL," MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES EXECUTIVE REGULATIONS 5-90, 7-02AM AND 36-90, AND MONTGOMERY COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION "STORM DRAIN DESIGN CRITERIA" DATED AUGUST 1988.

_____ _____
SIGNATURE DATE

_____
PRINTED NAME AND TITLE

CERTIFICATION OF THE QUANTITIES

I HEREBY CERTIFY THAT THE ESTIMATED TOTAL AMOUNT OF EXCAVATION AND FILL AS SHOWN ON THESE PLANS HAS BEEN COMPUTED TO XX CUBIC YARDS OF EXCAVATION, XX CUBIC YARDS OF FILL AND THE TOTAL AREA TO BE DISTURBED AS SHOWN ON THE PLANS HAS BEEN DETERMINED TO BE XX SQUARE FEET.

_____ _____
SIGNATURE DATE

_____
PRINTED NAME AND TITLE

35% DESIGN
OCTOBER 2024
NOT FOR CONSTRUCTION

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Engineers | Construction Managers | Planners | Scientists
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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.
EXPIRATION DATE:

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

_____ _____
Chief, Transportation Planning and Design Section Date

APPROVED

_____ _____
Chief, Division of Transportation Engineering Date

DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

TITLE SHEET

SCALE AS SHOWN DATE OCTOBER 2024

DWG. TS-01 SHEET NO. 1 OF 183

PLOTTED: 10/16/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pGN-T001_Forest Glen Passageway.dgn

PLOTTED: 10/16/2024
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ABBREVIATIONS

AASHTO	American Association of State Highway Transportation Officials
ADT.	Average Daily Traffic
AHD.	Ahead
APPROX.	Approximate
℄ or BL	Baseline
BK	Back /Book
BIT.	Bituminous
B.C.	Bituminous Concrete
B.M.	Bench Mark
BOT.	Bottom
BRL	Building Restriction Line
C.C.	Center of Curve
CAP	Corrugated Aluminum Pipe
CAPA	Corrugated Aluminum Pipe Arch
CATV	Cable Television
C.B.R.	California Bearing Ratio
CIPP	Cured – In – Place Pipe
℄ or CL	Centerline
CL.	Class
CLF	Chainlink Fence
CMP	Corrugated Metal Pipe
C.O.	Cleanout
COMB.	Combination
CONC.	Concrete
CONSTR.	Construction
COR.	Corner
CORR.	Correction
CPP–S	Corrugated Polyethylene Pipe – Type 'S'
CSP	Corrugated Steel Pipe – Aluminized Type 2
CSPA	Corrugated Steel Pipe Arch – Aluminized Type 2
DC	Degree of Curve
D.H.V.	Design Hourly Volume
D.I.	Drop Inlet
DIA.	Diameter
D.O.	Double Opening
E	East
E	Electric
E	External Distance
EA	Each
EB	Eastbound
ELEV	Elevation
ES	End Section
EX or EXIST.	Existing
FT.	Feet
F or FL	Flowline
F.B.D.	Flat Bottom Ditch
F.H.	Fire Hydrant
FWD.	Forward
G	Gas
G.V.	Gas Valve
H.B.	Handbox
HDPE	High Density Polyetheylene
HDWL.	Headwall
HERCP	Horizontal Ellipitical Reinforced Concrete Pipe
HP	High Point
IN	Inch
I.S.T.	Inlet Sediment Trap
INV.	Invert
J.B.	Junction Box
K	K Inlet
L	Length
LF	Linear Feet
L.L.	Liquid Limit
LP	Low Point
L.P.	Light Pole
LT.	Left
MAC.	Macadam
M.C.	Moisture Content
MAX.	Maximum
M.D.D.	Maximum Dry Content
MOD.	Modified
MIN.	Minimum
N	North
NB	Northbound
NE	Northeast
N.P.	Non–Plastic
O.C.	On Center
OHE	Overhead Electric
O.M.	Optimum Moisture
PAV'T.	Pavement
PC	Point of Curvature
PCC	Point of Compound Curvature
P℄	Point of Crown
P℄GE	Profile Grade Elevation
P.G.E.	Profile Ground Elevation
P.G.L.	Profile Grade Line
P℄GL	Profile Ground Line
P℄R	Point of Rotation
P.I.	Plasticity Index
PI	Point of Intersection
POC	Point On Curve
POT	Point On Tangent
PPWP	Polyvinyl Chloride Profile Wall Pipe
PROP	Proposed
PRC	Point of Reverse Curve
PT	Point
PT	Point of Tangency
PVC	Point of Vertical Curve
PVC	Polyvinyl Chloride
PVI	Point of Vertical Intersection
PVRC	Point of Vertical Reverse Curve
PVT	Point of Vertical Tangency
R	Radius
R.F.	Rock Fragments
RT	Right
RW or R/W	Right of Way
RCP	Reinforced Concrete Pipe
RCPP	Reinforced Concrete Pressure Pipe
R.Q.D.	Rock Quality Designation
R.M.	Rootmat
S	South
SAN.	Sanitary Sewer
SB or S/B	Southbound
SCE	Stabilized Construction Entrance
S.D.	Storm Drain
S.D.D.	Surface Drain Ditch
S℄E	Super Elevation
SF	Silt Fence
SF	Square Feet
SHT.	Sheet
SPP	Structural Steel Plate Pipe
SPPA	Structural Steel Plate Pipe Arch
S.P.T.	Standard Penetration Testing
SRP	Steel Spiral Rib Pipe – Aluminized Type 2
SRPA	Steel Spiral Rib Pipe Arch – Aluminized Type 2
SSD	Stopping Sight Distance
SSF	Super Silt Fence
STD.	Standard
STA.	Station
SO.	Single Opening
SY	Square Yards
SWM	Stormwater Management
T	Tangent
T	Telephone
T.C.	Top of Cover
T.G.	Top of Grate
T or TL	Traverse Line
T.M.	Top of Manhole
TRAV.	Traverse
TS	Temporary Swale
T.S.	Top of Slab
T.S.	Topsoil
TYP.	Typical
U.D.	Under Drain
U.G.	Underground
U.P.	Utility Pole
USDA	United States Department of Agriculture
VCL	Vertical Clearance
V.C.L.	Vertical Curve Length
W	Water
W	West
WB	Westbound
WB	Wetland Buffer
W.M.	Water Meter
W.S.	Wrapped Steel
WUS	Waters of the United States
W.V.	Water Valve

GENERAL NOTES

1. ALL ROADWAY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE MARYLAND STATE HIGHWAY ADMINISTRATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, MARYLAND STATE HIGHWAY ADMINISTRATION BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES AND MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION STANDARDS.
2. PASSAGEWAY SHALL BE CONSTRUCTED PER WMATA'S STANDARD SPECIFICATIONS.
3. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO PROTECT UTILITIES FROM DISTURBANCE OR DAMAGE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR UTILITY SUPPORT SYSTEM DESIGN AND CONSTRUCTION.
4. REPAIRS TO UTILITIES OR PROPERTY DAMAGE AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE OR METHOD OF OPERATION MUST BE MADE AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COST TO MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION OR TO MARYLAND STATE HIGHWAY ADMINISTRATION BEFORE PROCEEDING WITH CONSTRUCTION.
5. CALL "MISS UTILITY" AT 1–800–257–7777, 48 HOURS PRIOR TO THE START OF WORK. THE EXCAVATOR MUST NOTIFY ALL PUBLIC UTILITY COMPANIES WITH UNDERGROUND FACILITIES IN THE AREA OF PROPOSED EXCAVATION AND HAVE THOSE FACILITIES LOCATED BY THE UTILITY COMPANIES PRIOR TO COMMENCING EXCAVATION. THE EXCAVATOR IS RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 36A OF THE MONTGOMERY COUNTY CODE BOOK.
6. CLEARING IS TO BE LIMITED TO THE "LOD" LINE AS SHOWN ON THE PLANS.
7. DISTURBED AREAS SHALL BE SEEDED AND MULCHED UNLESS NOTED OTHERWISE.
8. AB CONSULTANTS PERFORMED TOPOGRAPHIC SURVEY IN 2011 WITH SUPPLEMENTAL TOPOGRAPHIC AND PROPERTY SURVEYS IN DECEMBER 2021. CIVIL/SITE DESIGN FOLLOWS HORIZONTAL DATUM MARYLAND STATE PLANE (NAD 8391) AND VERTICAL DATUM NAVD 88. PASSAGEWAY DESIGN IS BASED ON MARYLAND STATE PLANE (NAD 8391) AND VERTICAL DATUM NGVD 29. NGVD29 DATUM IS 0.712' HIGHER THAN THE NAVD88 DATUM.
9. EXISTING CONDITIONS SHOWN ON THESE PLANS ANTICIPATE THAT SHA'S MD 97(MO2245171) IMPROVEMENTS AND ADVANCED UTILITY RELOCATIONS WILL BE COMPLETED PRIOR TO THE FOREST GLEN PEDESTRIAN PASSAGEWAY IMPROVEMENTS.
10. THERE ARE NO WATERS OF THE U.S. OR STATE WETLANDS, BUFFERS, OR 100 YEAR FLOODPLAIN WITHIN THE PROJECT LIMITS.

LEGEND

STAGING AREA
EXISTING RIGHT OF WAY LINE
EXISTING STORM DRAIN
EXISTING INLET
EXISTING SIGN
EXISTING LIGHTPOST
EXISTING PROPERTY LINE
EXISTING WOODS LINE
REMOVAL OF EXISTING STRUCTURE
REMOVAL OF EXISTING TREE
EXISTING FIRE HYDRANT
EXISTING DETECTABLE WARNING SURFACE
EXISTING WATER METER
EXISTING GAS VALVE
EXISTING TELEPHONE MANHOLE
EXISTING HANDBOX
EXISTING WATER VALVE
EXISTING ELECTRIC MANHOLE
EXISTING ELECTRIC METER
EXISTING STORM MANHOLE
EXISTING MAIL BOX
EXISTING UTILITY POLE
EXISTING OVERHEAD ELECTRIC
EXISTING WATER LINE
EXISTING TELEPHONE LINE
EXISTING UNDERGROUND FIBER OPTIC LINE
EXISTING GAS LINE
EXISTING UNDERGROUND ELECTRIC (SHA)
EXISTING UNDERGROUND ELECTRIC (PEPCO)
EXISTING OVERHEAD FIBER OPTIC LINE
EXISTING UNDERGROUND CATV

TRAVERSE POINT
FENCE LINE
DRAINAGE STRUCTURE IDENTIFICATION
TREES
SIGNIFICANT/SPECIMEN TREES WITH CRZ
BORING LOCATION
PROPOSED UTILITY POLE
PROPOSED FIRE HYDRANT
PROPOSED TELEPHONE MANHOLE
PROPOSED WATER LINE
PROPOSED FIBER OPTIC LINE
PROPOSED TELEPHONE LINE
PROPOSED SANITARY FORCE MAIN
PROPOSED GAS LINE
FULL DEPTH ASPHALT PAVEMENT
FINE MILLING AND RESURFACING
4 INCH CONCRETE SIDEWALK
PROPOSED DETECTABLE WARNING SURFACE

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LICENSE NO.
EXPIRATION DATE:

OWNER/ADDRESS:
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DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
240–777–7220
DESIGN SECTION
240–777–7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY TMB CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

GENERAL NOTES, STANDARD SYMBOLS AND ABBREVIATIONS

SCALE N/A DATE OCTOBER 2024

DWG. GN-01 SHEET NO. 2 OF 183

PLOTTED: 10/16/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 – Forest Glen Pedestrian Tunnel\CADD\Plans\pGN-N000_Forest Glen Passageway.dgn

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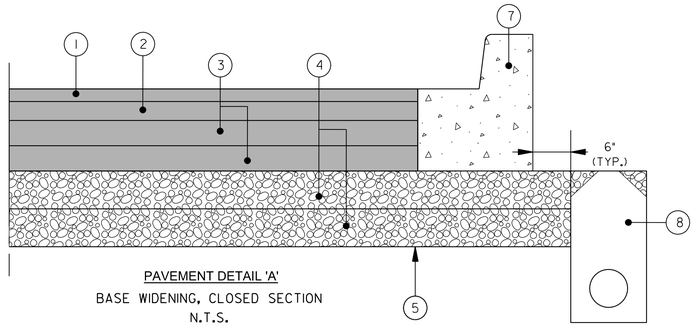
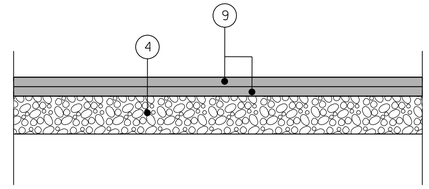
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pGN-N000_Forest Glen Passageway.dgn

PAVEMENT LEGEND

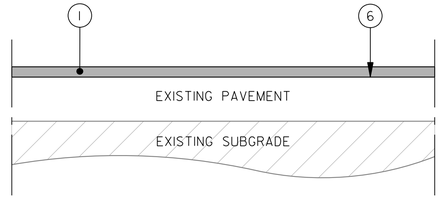
(1)	2"	GAP-GRADED ASPHALT MIX 12.5 MM FOR SURFACE, HDFV, PG 64E-22, LEVEL 5 (SEE NOTE 10)
(2)	3"	SUPERPAVE ASPHALT MIX 19.0 MM FOR BASE, PG 64S-22, LEVEL 2
(3)	4"	SUPERPAVE ASPHALT MIX 19.0 MM FOR BASE, PG 64S-22, LEVEL 2
(4)	6"	GRADED AGGREGATE BASE COURSE
(5)		TOP OF SUBGRADE AND LIMIT OF CLASS I EXCAVATION
(6)		TOP OF EXISTING PAVEMENT SURFACE AFTER 2" FINE MILLING
(7)		CURB AND GUTTER (SEE NOTE 9 AND NOTE 10)
(8)		LONGITUDINAL UNDERDRAIN (LUD) PER STANDARD NO. MD 387.11A (SEE NOTE 13)
(9)	1.5"	SUPERPAVE ASPHALT MIX 9.5 MM FOR BASE, PG 64S-22, LEVEL 2



PAVEMENT DETAIL 'A'
BASE WIDENING, CLOSED SECTION
N.T.S.



PAVEMENT DETAIL 'B'
ASPHALT PAVEMENT SECTION FOR MAINTENANCE OF TRAFFIC
N.T.S.



PAVEMENT DETAIL 'C'
FINE MILLING AND RESURFACING
N.T.S.

PAVEMENT NOTES

1. FINE MILLING SHALL BE PERFORMED AFTER PATCHING AND BASE WIDENING ARE COMPLETED.
2. INFORMATION FROM CONSTRUCTION HISTORY INDICATE THE FOLLOWING PAVEMENT STRUCTURE ON MD 97 WITHIN THE PROJECT LIMITS:

   1.5" TO 3" ASPHALT CONCRETE OVER 9" JOINTED REINFORCED CONCRETE PAVEMENT OVER 6" STONE
3. REFER TO STANDARDS NO. 578.03 AND 578.03-01 FOR PATCHING
4. USE THE FOLLOWING FOR PARTIAL-DEPTH PATCHING: 5" SUPERPAVE ASPHALT MIX 19.0 MM FOR PARTIAL-DEPTH PATCHING, PG64S-22, LEVEL 2 (MIN 2" AND MAX 4" LIFTS)(SEE NOTES 1, 2, AND 5)
5. USE THE FOLLOWING FOR FULL-DEPTH PATCHING: 9" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT TYPE 1 REPAIRS USING MIX NO. 9 (SEE NOTES 1, 2, 6, AND 7)
6. IN AREAS WHERE THE EXISTING PAVEMENT IS BEING REMOVED, THE LIMIT OF CLASS 1 EXCAVATION SHALL BE AT THE BOTTOM OF THE BOUND MATERIALS IN THE EXISTING PAVEMENT OR AT THE TOP OF SUBGRADE, WHICHEVER IS LOWER.
7. PARTIAL-DEPTH PATCHING SHALL BE TO A DEPTH OF 5" OR TO THE TOP OF CONCRETE, WHICHEVER OCCURS FIRST.
8. IF THE UNDERLYING BASE MATERIAL IS DETERIORATED, REMOVE ANY UNSUITABLE MATERIAL AND BACKFILL WITH 6" GRADED AGGERGATE BASE.
9. ALL PORTLAND CEMENT CONCRETE REPAIRS SHALL BE IN ACCORDANCE WITH STANDARD NO. MD 572.21 AND MD 577.02 THROUGH 577.08 AND SECTION 522 OF THE MDSHA STANDARD SPECIFICATIONS FOR CONSTRUCTION MATERIALS JULY 2024.
10. AS PER SECTION 506.03.03 FO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, PLACEMENT OF GAP-GRADED STONE MATRIX ASPHALT MIX WILL ONLY BE PERMITTED WHEN THE AMBIENT AND SURFACE TEMPERATURES ARE AT LEAST 50 F.
11. IF NEEDED USE ONE OF THE FOLLOWING ITEMS FOR WEDGE/LEVEL, AS DIRECTED BY THE ENGINEER:

    FOR WEDGE/LEVEL LAYER 2" THICK OR LESS: VARIABLE DEPTH SUPERPAVE ASPHALT MIX 9.5 MM FOR WEDGE/LEVEL, PG 64S-22, LEVEL 2

    (MIN 1" AND MAX 2" LIFTS)

    FOR WEDGE/LEVEL LAYER MORE THAN 2" THICK: VARIABLE DEPTH SUPERPAVE ASPHALT MIX 19.0 MM FOR WEDGE/LEVEL, PG 64S-22, LEVEL 2 (MIN 2" AND MAX 4" LIFTS)
12. REFER TO STANDARD MD 580.03 FOR CURB AND GUTTER REPLACEMENT.
13. REMOVAL OF EXISTING UNDERDRAIN PIPE AND BACKFILLING SHOULD NOT BE MEASURED BUT CONSIDERED INCIDENTAL TO ROADWAY EXCAVATION. NEW SECTIONS OF LUD SHALL BE PLACED AND CONNECTED PROPERLY TO THE EXISTING UNDERDRAINS OR OTHER DRAINAGE FACILITIES.
14. REFER TO STANDARD MD 578.01 FOR UTILITY PATCHES

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APPROVED

Chief, Division of Transportation Engineering — Date

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

PAVEMENT DETAILS

SCALE N/A DATE OCTOBER 2024

DESIGNED BY TMB DRAWN BY TMB CHECKED BY RJG

DWG. DE-01 SHEET NO. 3 OF 183

PLOTTED: 10/16/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pDE-0001_Forest Glen Passageway.dgn

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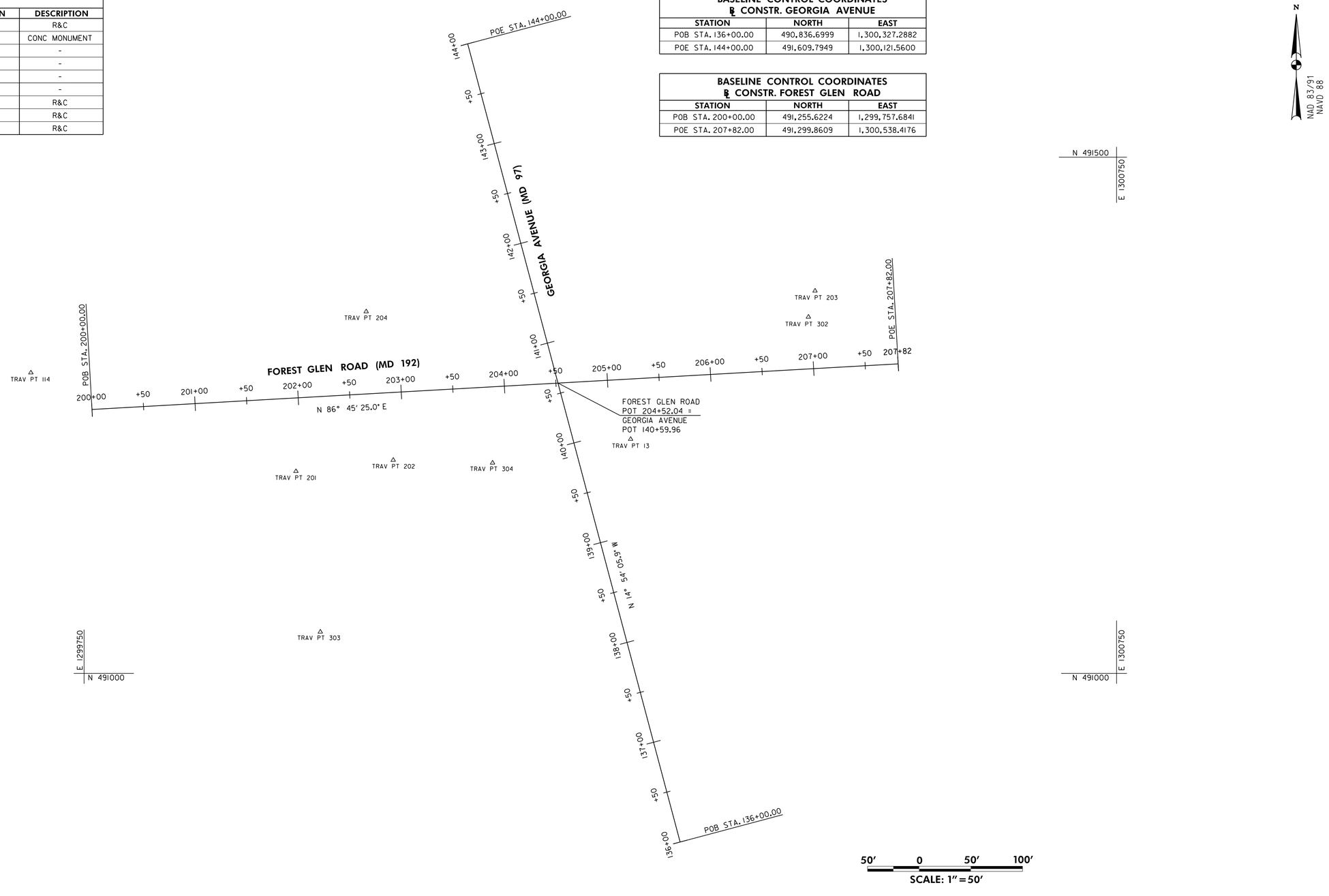
TRAVERSE POINTS				
POINT NO.	NORTH	EAST	ELEVATION	DESCRIPTION
13	491,226.8890	1,300,279.3200	366.36	R&C
114	491,291.2650	1,299,698.5190	373.18	CONC MONUMENT
201	491,195.7620	1,299,955.2240	370.97	-
202	491,206.6100	1,300,049.4150	369.89	-
203	491,370.5730	1,300,457.8950	350.59	-
204	491,350.4970	1,300,023.2360	365.61	-
302	491,345.2922	1,300,451.4906	351.66	R&C
303	491,040.2110	1,299,978.8260	367.17	R&C
304	491,203.9333	1,300,145.6140	368.68	R&C

BASELINE CONTROL COORDINATES ℄ CONSTR. GEORGIA AVENUE		
STATION	NORTH	EAST
POB STA. 136+00.00	490,836.6999	1,300,327.2882
POE STA. 144+00.00	491,609.7949	1,300,121.5600

BASELINE CONTROL COORDINATES ℄ CONSTR. FOREST GLEN ROAD		
STATION	NORTH	EAST
POB STA. 200+00.00	491,255.6224	1,299,757.6841
POE STA. 207+82.00	491,299.8609	1,300,538.4176



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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.
EXPIRATION DATE:

OWNER/ADDRESS:
MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
100 EDISON PARK DRIVE
GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY TMB CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

GEOMETRY SHEET AND SURVEY REFERENCES

SCALE 1" = 50' DATE OCTOBER 2024

DWG. GS-01 SHEET NO. 4 OF 183

PLOTTED: 10/16/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTranspi\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pGS-0001_Forest Glen Passageway.dgn

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STANDARD COMBINATION CURB AND GUTTER

210 L.F.	MD 192- 201+69.00, 48' RT TO 203+79.00, 46' RT
497 L.F.	MD 192- 200+81.00, 3' RT TO 203+30.00, 1' LT
61 L.F.	MD 192- 203+40.00, 24' LT TO 203+84.00, 59' LT
60 L.F.	MD 97- 141+21.00, 4' RT TO 141+50.00, 6' RT
174 L.F.	MD 192-204+70.00, 102' LT TO 206+04.00, 43' LT
176 L.F.	MD 192- 205+21.00, 5' RT TO 206+05.00, 4' RT

DETECTABLE WARNING SURFACE FOR CURB RAMPS

12 S.F.	
10 S.F.	MD 97- 140+92.00, 62' RT
10 S.F.	MD 97- 141+15.00, 40' RT

4" CONCRETE SIDEWALK

1,085 S.F.	MD 192- 201+69.00, 48' RT TO 203+79.00, 46' RT
76 S.F.	MD 192- 203+69.00, 55' LT TO 203+72.00, 38' LT
895 S.F.	MD 192-204+70.00, 102' LT TO 206+04.00, 43' LT

NOTES:

1. EXISTING CONDITIONS SHOWN ON THESE SITE PLANS ANTICIPATE THAT SHA'S MD 97 (MO2245171) IMPROVEMENTS AND ADVANCED UTILITY RELOCATIONS WILL BE COMPLETED PRIOR TO THE FOREST GLEN PEDESTRIAN PASSAGEWAY IMPROVEMENTS.
2. EXISTING TRAFFIC SIGNAL EQUIPMENT INSTALLED BY SHA AS PART OF THE MD 97 (MO2245171) IMPROVEMENTS WILL BE IMPACTED BY THE FOREST GLEN PEDESTRIAN PASSAGEWAY IMPROVEMENTS. SEE THE MOT PLANS FOR MORE INFORMATION REGARDING TEMPORARY TRAFFIC SIGNAL DISPLAYS REQUIRED DURING CONSTRUCTION OF THE PASSAGEWAY IMPROVEMENTS.
3. SEE UTILITY COMPOSITE PLAN FOR PRELIMINARY UTILITY IMPACTS AND PRELIMINARY LAYOUT OF ADVANCED UTILITY RELOCATIONS.
4. SEE TREE PROTECTION PLANS FOR PROTECTION MEASURES, DETAILS AND NECESSARY TREE REMOVALS.
5. TIE INTO EXISTING CONCRETE CURB AND GUTTER/SIDEWALK.

LEGEND:

- FULL DEPTH ASPHALT PAVEMENT
- FINE MILLING AND RESURFACING
- 4 INCH CONCRETE SIDEWALK
- DETECTABLE WARNING SURFACE

HD-01

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DESIGN SECTION
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ROCKVILLE, MARYLAND

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APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY TMB CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

SITE PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. HD-01 SHEET NO. 5 OF 183

PLOTTED: 10/16/2024
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TRAFFIC CONTROL PLAN – GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL STANDARDS, THE GENERAL NOTES AND STANDARDS PROVIDED IN CATEGORY "1" OF THE MDOT SHA BOOK OF STANDARDS, THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND SUBSEQUENT REVISIONS ADOPTED BY THE STATE OF MARYLAND, AND THESE PLANS.
2. NO WORK IS TO BEGIN UNTIL ADVANCE WARNING SIGNS AND DRUMS ARE IN PLACE AND OPERATIONAL.
3. THE CONTRACTOR SHALL NOTIFY ALL TRANSIT AGENCIES WITH ROUTES IMPACTED BY MOT OPERATIONS AND PROVIDE IMPACT DURATION PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
4. EXCAVATIONS SHALL BE BACKFILLED WITH GRADED AGGREGATE BASE PRIOR TO THE END OF THE WORK DAY IN CONFORMANCE WITH SHA STD. ND. MD 104.01–28.
5. FOR OFF–PEAK HOUR WORK ZONES, TYPICAL APPLICATIONS FROM CATEGORY 1 OF MDOT SHA BOOK OF STANDARDS FOR HIGHWAY AND INCIDENTAL STRUCTURES IN ADDITION TO THOSE CITED ON THESE PLANS MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER. TYPICAL APPLICATIONS TO BE USED FOR OFF–PEAK HOUR WORK MAY BE MODIFIED AS REQUIRED BASED ON FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
6. THE SUGGESTED SEQUENCE OF CONSTRUCTION LISTS ONLY MAJOR ITEMS OF WORK AS SHOWN ON THESE PLANS.
7. ALL BARRICADES, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MARYLAND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MD MUTCD) AND THE MARYLAND STANDARD SIGN BOOK.
8. DRUMS FOR MAINTENANCE OF TRAFFIC ARE SHOWN GRAPHICALLY AND DO NOT REPRESENT THE ACTUAL NUMBER OF DRUMS NEEDED. DRUM AND SIGN SPACING SHALL BE IN ACCORDANCE WITH MONTGOMERY COUNTY'S TEMPORARY TRAFFIC CONTROL STD. NO. TCP–100.01 AND MD SHA STD. NO. 104.01–02.
9. CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED OFF THE TRAVEL LANES AND PEDESTRIAN FACILITIES AT ALL TIMES.
10. EXISTING REGULATORY SIGNS IN THE WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE ENGINEER. SIGNS THAT ARE NOT APPLICABLE SHALL BE REMOVED OR COMPLETELY COVERED WITH NONTRANSPARENT MATERIAL.
11. MAINTAIN POSITIVE DRAINAGE ALONG THE ROADWAY SURFACE THROUGHOUT CONSTRUCTION.
12. ALL SIGNS ON SIDE STREETS SHALL BE PLACED 150 FEET FROM THE WORK ZONE, OR AS SHOWN ON PLANS SHALL BE 150 FEET (MIN.) FROM THE WORK ZONE, OR AS SHOWN ON THE PLAN AND AS DIRECTED BY THE ENGINEER.
13. PERMANENT MARKINGS DAMAGED SHALL BE REPAIRED AT THE DISCRETION OF THE ENGINEER.
14. WHERE TEMPORARY PAVEMENT MARKINGS ARE REQUIRED, EXISTING PAVEMENT MARKINGS SHALL BE COMPLETELY REMOVED WITHIN THE LIMITS OF RESURFACING. OUTSIDE THE LIMITS OF RESURFACING EXISTING PAVEMENT MARKINGS SHALL BE COMPLETELY COVERED WITH BLACKOUT TAPE WHERE NECESSARY.
15. LANE CLOSURES ARE PROHIBITED BETWEEN THE HOURS OF 6 AM TO 9 PM.
16. THE CONTRACTOR IS TO MAINTAIN ACCESS /EGRESS FOR ALL EMERGENCY VEHICLES AT ALL TIMES.

TEMPORARY TRAFFIC CONTROL TYPICAL APPLICATIONS (TTCTA)

THE FOLLOWING TTCTA FROM THE MDOT SHA'S BOOK OF STANDARDS ARE TO BE FOLLOWED AS APPROPRIATE:

MD 104.01–30B – CHANNELIZATION DEVICE SPACING EQLLESS THAN 40 MPH

MD 104.01–80 – TAPER LENGTH CRITERIA TABLE

MD 104.01–81 – TYPICAL APPLICATION NOTES

MD 104.04–04 – LEFT LANE CLOSURE

MD 104.04–06 – RIGHT LANE CLOSURE

MD 104.04–08 – CENTER LANE CLOSURE

SEQUENCE OF CONSTRUCTION

1. IMPLEMENT SINGLE LANE CLOSURES PER SHA STANDARD DETAILS TO PERFORM THE REQUIRED WATER MAIN RELOCATION WORK.

PHASE 1A

1. REMOVE 250 FEET OF THE EXISTING RAISED MEDIAN ON THE WESTERN LEG OF MD 192 AND REPLACE WITH TEMPORARY ASPHALT PAVEMENT. UTILIZE LEFT LANE CLOSURE PER SHA STD. NO. MD 104.04–04. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

2. IMPLEMENT RIGHT LANE CLOSURE ALONG EASTBOUND MD 192 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–02. DETOUR PEDESTRIANS TO NORTH SIDE OF FOREST GLEN ROAD PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07. CONSTRUCT SEGMENT 1 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. THE DECKOVER SYSTEM WILL BE USED TO CARRY TRAFFIC, SUPPORT UTILITIES AND ALLOW EXCAVATION BELOW THE STREET DECK TO FACILITATE CONSTRUCTION OF THE PEDESTRIAN PASSAGEWAY. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

PHASE 1B

1. IMPLEMENT CENTER LANE CLOSURE ALONG EASTBOUND MD 192 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–03. DETOUR PEDESTRIANS TO THE EAST LEG CROSSWALK AT THE INTERSECTION OF FOREST GLEN ROAD AND GEORGIA AVENUE PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07. CONSTRUCT SEGMENT 2 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

PHASE 2A

1. REMOVE EXISTING RAISED MEDIAN ON EASTERN LEG OF MD 192 AND REPLACE WITH TEMPORARY ASPHALT PAVEMENT. UTILIZE LEFT LANE CLOSURE PER SHA STD. NO. MD 104.04–04.

2. IMPLEMENT LEFT LANE CLOSURE ALONG EASTBOUND MD 192 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–04. DETOUR PEDESTRIANS TO THE EAST LEG CROSSWALK AT THE INTERSECTION OF FOREST GLEN ROAD AND GEORGIA AVENUE PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07. CONSTRUCT SEGMENT 3 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

PHASE 2B

1. IMPLEMENT LEFT LANE CLOSURE ALONG EASTBOUND MD 192 AND IMPLEMENT RIGHT LANE CLOSURES ALONG WESTBOUND MD 192 AND SOUTHBOUND MD 97 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–05. DETOUR PEDESTRIANS TO THE EAST LEG CROSSWALK AT THE INTERSECTION OF FOREST GLEN ROAD AND GEORGIA AVENUE PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07.CONSTRUCT SEGMENT 4 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

PHASE 3

1. IMPLEMENT LEFT LANE CLOSURE ALONG EASTBOUND MD 192 AND IMPLEMENT RIGHT LANE CLOSURES ALONG WESTBOUND MD 192 AND SOUTHBOUND MD 97 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–06. DETOUR PEDESTRIANS TO THE SOUTH LEG CROSSWALK AT THE INTERSECTION OF FOREST GLEN ROAD AND GEORGIA AVENUE PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07. CONSTRUCT SEGMENT 5 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

PHASE 4

1. RECONSTRUCT MEDIANS ALONG MD 192. UTILIZE LEFT LANE CLOSURE PER SHA STD. NO. MD 104.04–04.

2. IMPLEMENT LEFT LANE CLOSURE ALONG NORTHBOUND AND SOUTHBOUND MD 97 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–07. DETOUR PEDESTRIANS TO THE SOUTH LEG CROSSWALK AT THE INTERSECTION OF FOREST GLEN ROAD AND GEORGIA AVENUE PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07. CONSTRUCT SEGMENT 6 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

PHASE 5

1. IMPLEMENT RIGHT LANE CLOSURE ALONG NORTHBOUND MD 97 WITH MAINTENANCE OF TRAFFIC DEVICES AND SIGNS PER THE MAINTENANCE OF TRAFFIC PLANS. REFER TO SHEET DWG. MT–08. DETOUR PEDESTRIANS TO THE WOODLAND DRIVE INTERSECTION. PER PEDESTRIAN DETOUR SHOWN ON SHEET MT–07.CONSTRUCT SEGMENT 7 OF 7 OF THE TEMPORARY DECKOVER SYSTEM. AT THE END OF EACH WORK PERIOD, REMOVE LANE CLOSURE(S) TRAFFIC CONTROL DEVICES AND REOPEN TRAVEL LANE(S).

THESE MOT PLANS ASSUME THAT SHA'S MD 97 WIDENING (MO2245171) IMPROVEMENTS AND ADVANCED UTILITY FIELD RELOCATIONS WILL BE COMPLETED PRIOR TO THE FOREST GLEN PEDESTRIAN PASSAGEWAY IMPROVEMENTS.

NOTE: TRAFFIC SIGNAL IMPACTS DURING MAINTENANCE OF TRAFFIC SEQUENCING WILL BE ADDRESSED IN FUTURE SUBMISSIONS. IT IS ANTICIPATED THAT THE CONTRACTOR WILL NEED TO INSTALL TEMPORARY STRAIN POLES AND SPAN WIRE TO PROVIDE TEMPORARY SIGNAL DISPLAYS THROUGHOUT CONSTRUCTION. EXISTING SIGNAL EQUIPMENT TO BE INSTALLED BY SHA AS PART OF THE MD 97 WIDENING IMPROVEMENTS (MO2245171) PROJECT WILL BE IMPACTED BY THE PASSAGEWAY CONSTRUCTION.

MT–01

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CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
240–777–7220
DESIGN SECTION
240–777–7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL
Chief, Transportation Planning and Design Section — Date
APPROVED
Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY EFM CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. MT-N001 SHEET NO. 6 OF 183

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTranspi\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-N001_Forest Glen Passageway.dgn

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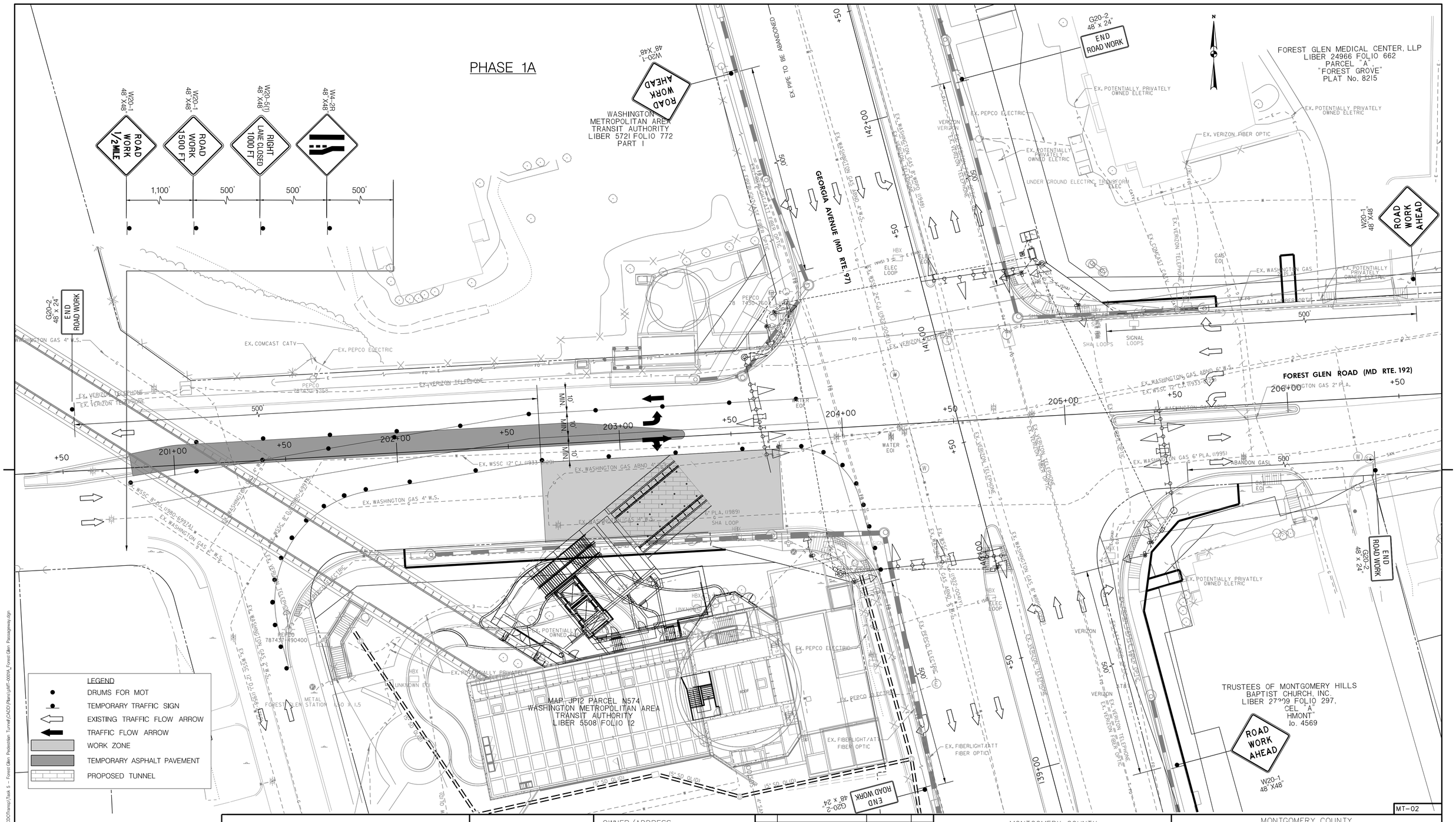
PHASE 1A



LEGEND

- DRUMS FOR MOT
- TEMPORARY TRAFFIC SIGN
- EXISTING TRAFFIC FLOW ARROW
- TRAFFIC FLOW ARROW
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED TUNNEL

MT-02

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GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 1A
MAINTENANCE OF TRAFFIC PLAN

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DWG. MT-0001A SHEET NO. 7 OF 183

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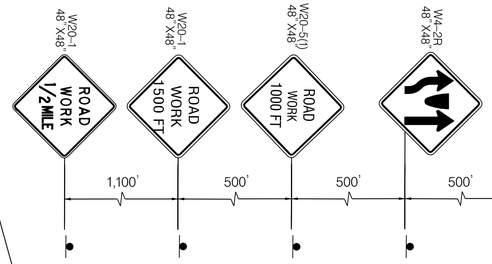
PHASE 1B



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LIBER 5721 FOLIO 772
PART I

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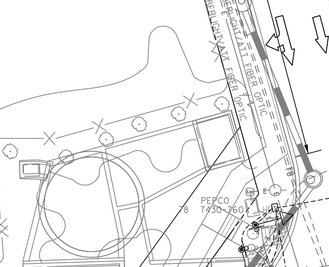

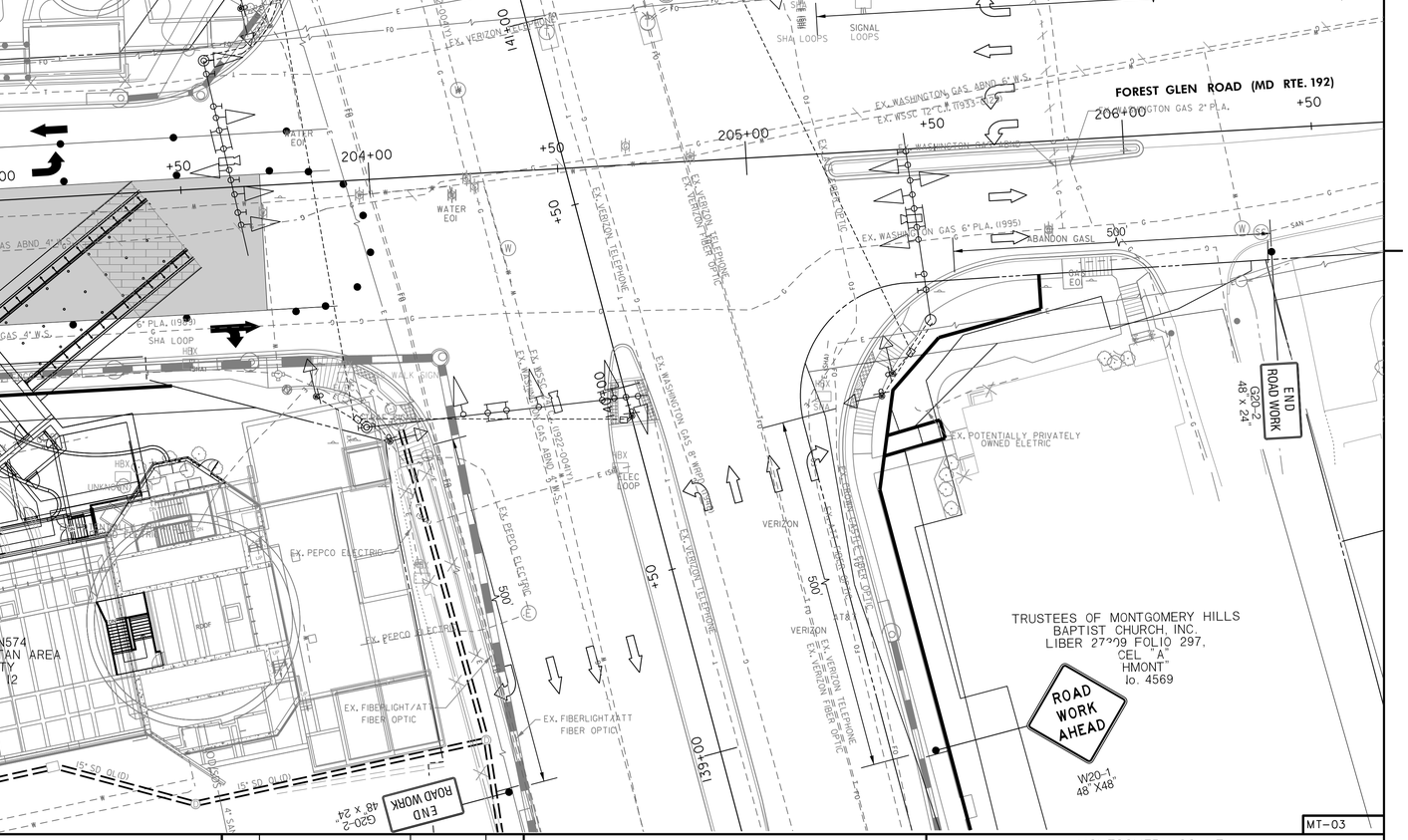

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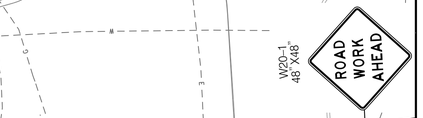
PARCEL "A"
"FOREST GROVE"
PLAT No. 8215



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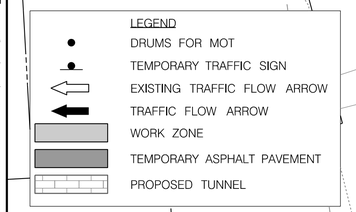
LIBER 27209 FOLIO 297,
CEL "A"
HMONT"
Io. 4569



MT-03

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GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 1B
MAINTENANCE OF TRAFFIC PLAN

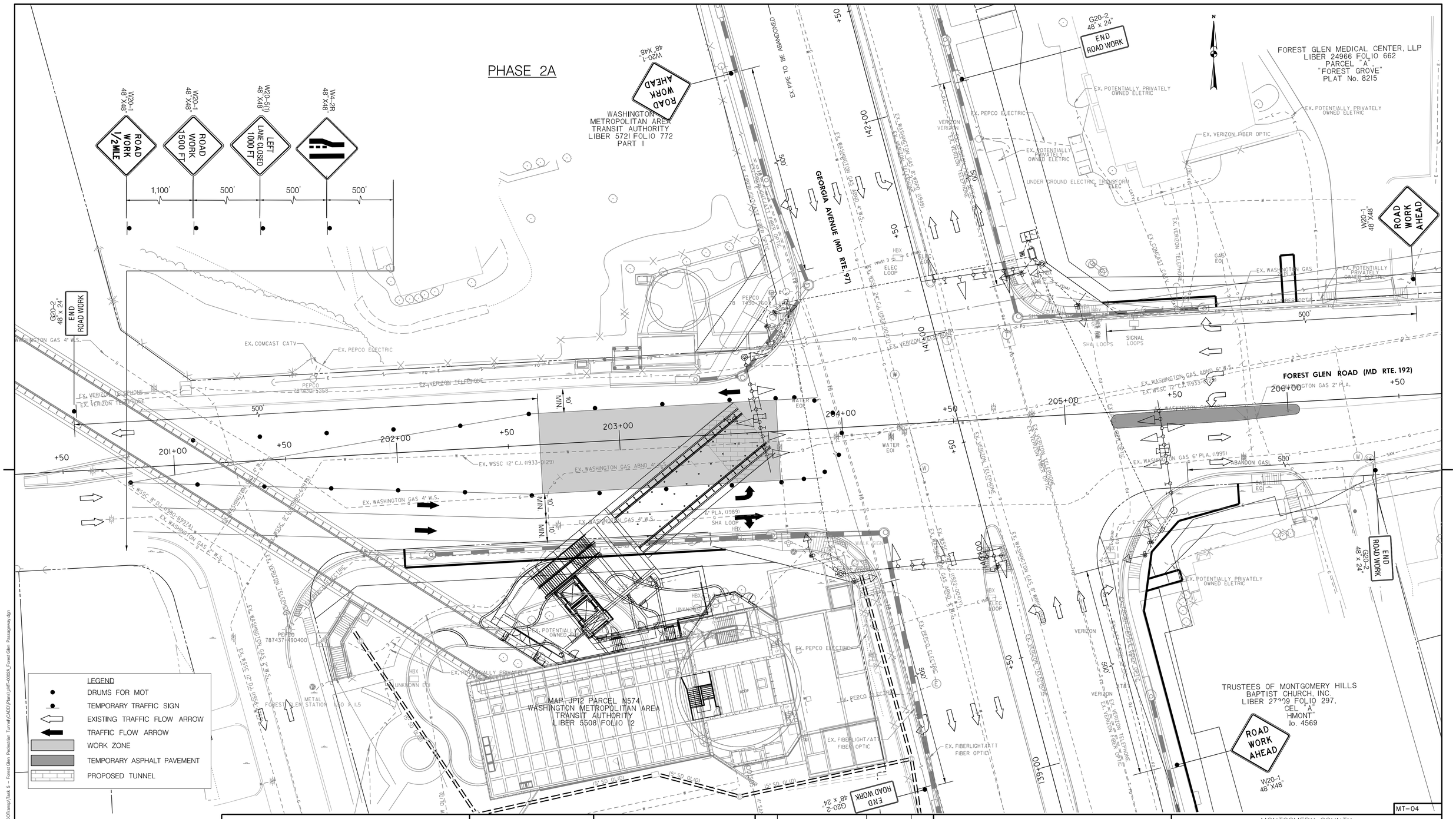
SCALE 1"=20' DATE OCTOBER 2024

DWG. MT-0001B SHEET NO. 8 OF 183

PLOTTED: 10/9/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0001B_Forest Glen Passageway.dgn

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0001B_Forest Glen Passageway.dgn

PHASE 2A



LEGEND

- DRUMS FOR MOT
- TEMPORARY TRAFFIC SIGN
- EXISTING TRAFFIC FLOW ARROW
- TRAFFIC FLOW ARROW
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED TUNNEL

MT-04

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OWNER/ADDRESS:
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GAITHERSBURG, MARYLAND

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240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY EFM CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 2A
MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. MT-0002A SHEET NO. 9 OF 183

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0002A_Forest Glen Passageway.dgn

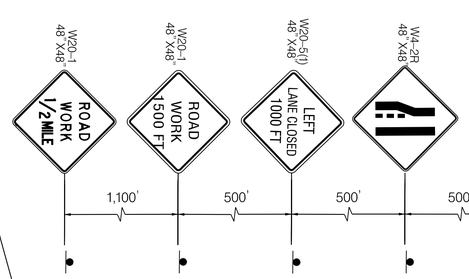
PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0002A_Forest Glen Passageway.dgn

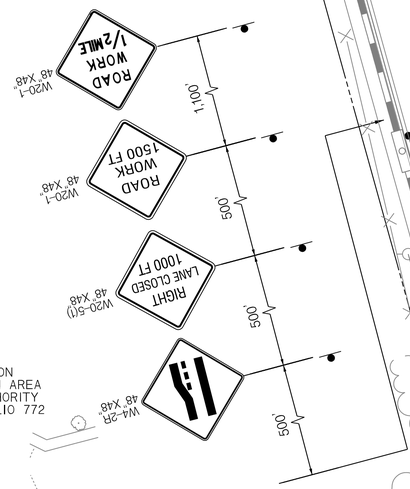
NOTES

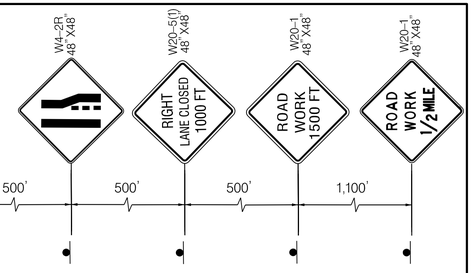
1. RIGHT LANE CLOSURE OF WESTBOUND FOREST GLEN SHALL NOT IMPACT THE INTERSECTION OF FOREST GLEN AND WOODLAND DRIVE.

2. SPEED REDUCTION SIGNAGE MAY BE REQUIRED FOR WESTBOUND APPROACH TO INTERSECTION OF FOREST GLEN ROAD AND GEORGIA AVENUE.

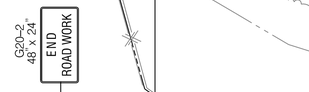
PHASE 2B

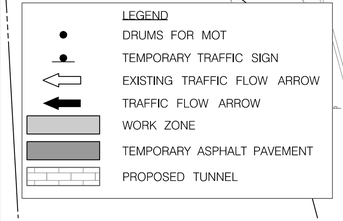






WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY LIBER 5721 FOLIO 772 PART I





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ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY EFM CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 2B
MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. MT-0002B SHEET NO. 10 OF 183

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\ls\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0002B_Forest Glen Passageway.dgn

NOTES

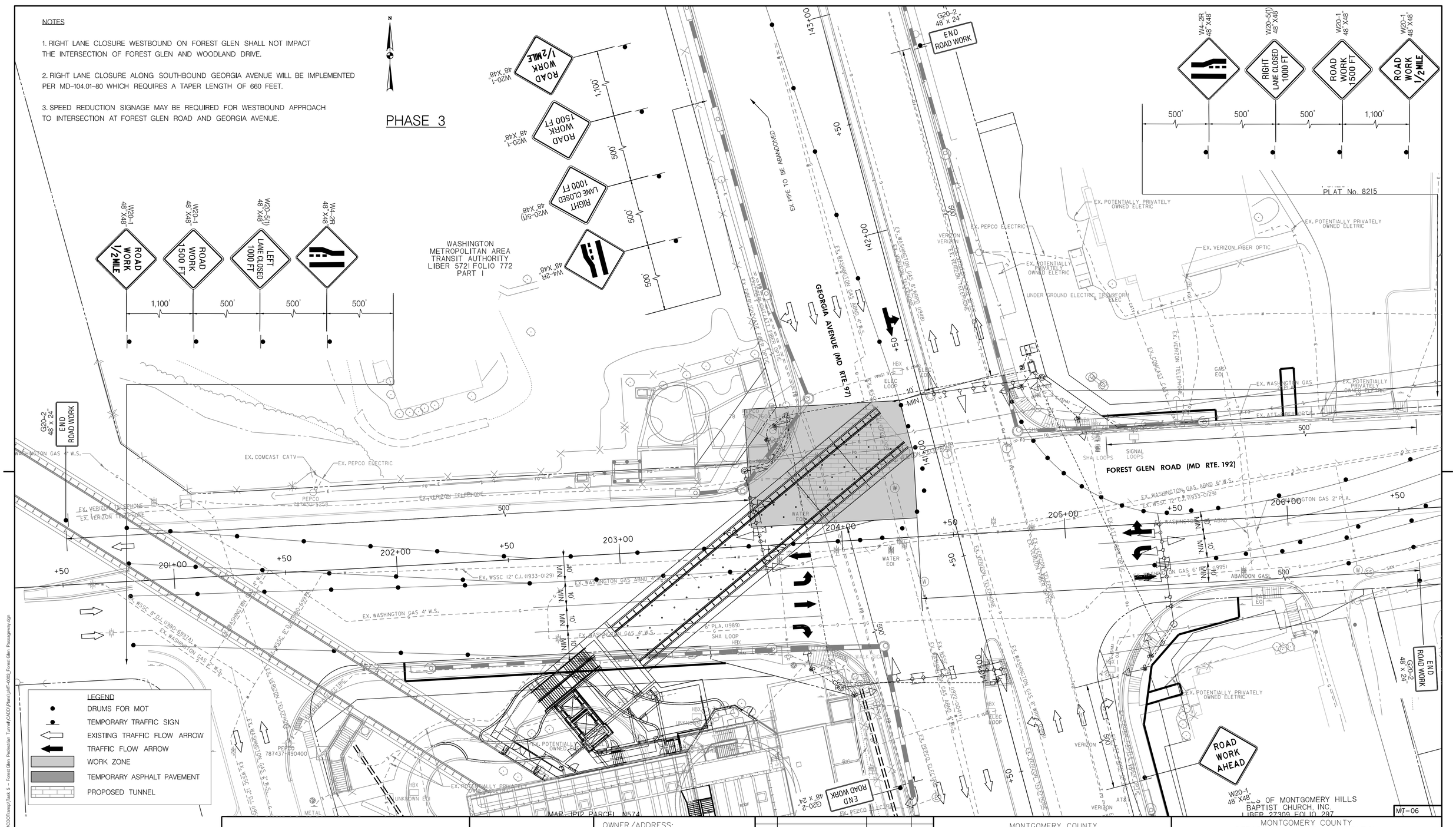
1. RIGHT LANE CLOSURE WESTBOUND ON FOREST GLEN SHALL NOT IMPACT THE INTERSECTION OF FOREST GLEN AND WOODLAND DRIVE.

2. RIGHT LANE CLOSURE ALONG SOUTHBOUND GEORGIA AVENUE WILL BE IMPLEMENTED PER MD-104.01-80 WHICH REQUIRES A TAPER LENGTH OF 660 FEET.

3. SPEED REDUCTION SIGNAGE MAY BE REQUIRED FOR WESTBOUND APPROACH TO INTERSECTION AT FOREST GLEN ROAD AND GEORGIA AVENUE.

PHASE 3

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY LIBER 5721 FOLIO 772 PART I



LEGEND

- DRUMS FOR MOT
- TEMPORARY TRAFFIC SIGN
- EXISTING TRAFFIC FLOW ARROW
- TRAFFIC FLOW ARROW
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED TUNNEL

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 3
MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. MT-0003 SHEET NO. 11 OF 183

MT-06

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTranspi\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0003_Forest Glen Passageway.dgn

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTranspi\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0003_Forest Glen Passageway.dgn

NOTES

1. LEFT LANE CLOSURE ALONG SOUTHBOUND GEORGIA AVENUE WILL BE IMPLEMENTED PER MD-104.01-80 WHICH REQUIRES A TAPER LENGTH OF 330 FEET.

2. LEFT LANE CLOSURE ALONG NORTHBOUND GEORGIA AVENUE WILL BE IMPLEMENTED PER MD-104.01-80 WHICH REQUIRES A TAPER LENGTH OF 150 FEET.

PHASE 4

FOREST GLEN MEDICAL CENTER, LLP
LIBER 24966 FOLIO 662
PARCEL "A"
"FOREST GROVE"
PLAT No. 8215

GEORGIA AVENUE (MD RTE. 97)

FOREST GLEN ROAD (MD RTE. 192)

MAP JP12 PARCEL N574
WASHINGTON METROPOLITAN AREA
TRANSIT AUTHORITY
LIBER 5508 FOLIO 12

LEGEND
- DRUMS FOR MOT
- TEMPORARY TRAFFIC SIGN
- EXISTING TRAFFIC FLOW ARROW
- TRAFFIC FLOW ARROW
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED TUNNEL

MT-07

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Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY EFM CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 4
MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. MT-0004 SHEET NO. 12 OF 183

PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0004_Forest Glen Passageway.dgn

NOTES

1. RIGHT LANE CLOSURES ALONG NORTHBOUND & SOUTHBOUND GEORGIA AVENUE WILL BE IMPLEMENTED PER MD-104.01-80 WHICH REQUIRES A TAPER LENGTH OF 330 FEET.

PHASE 5

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY LIBER 5721 FOLIO 772 PART I

FOREST GLEN MEDICAL CENTER, LLP LIBER 24966 FOLIO 662 PARCEL "A" "FOREST GROVE" PLAT No. 8215

GEORGIA AVENUE (MD RTE. 97)

FOREST GLEN ROAD (MD RTE. 192)

MAP JP12 PARCEL N574
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
LIBER 5508 FOLIO 12

FOREST GLEN STATION LOD X I.5

LEGEND

- DRUMS FOR MOT
- TEMPORARY TRAFFIC SIGN
- EXISTING TRAFFIC FLOW ARROW
- TRAFFIC FLOW ARROW
- WORK ZONE
- TEMPORARY ASPHALT PAVEMENT
- PROPOSED TUNNEL

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DESIGN SECTION
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APPROVED

Chief, Division of Transportation Engineering — Date

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

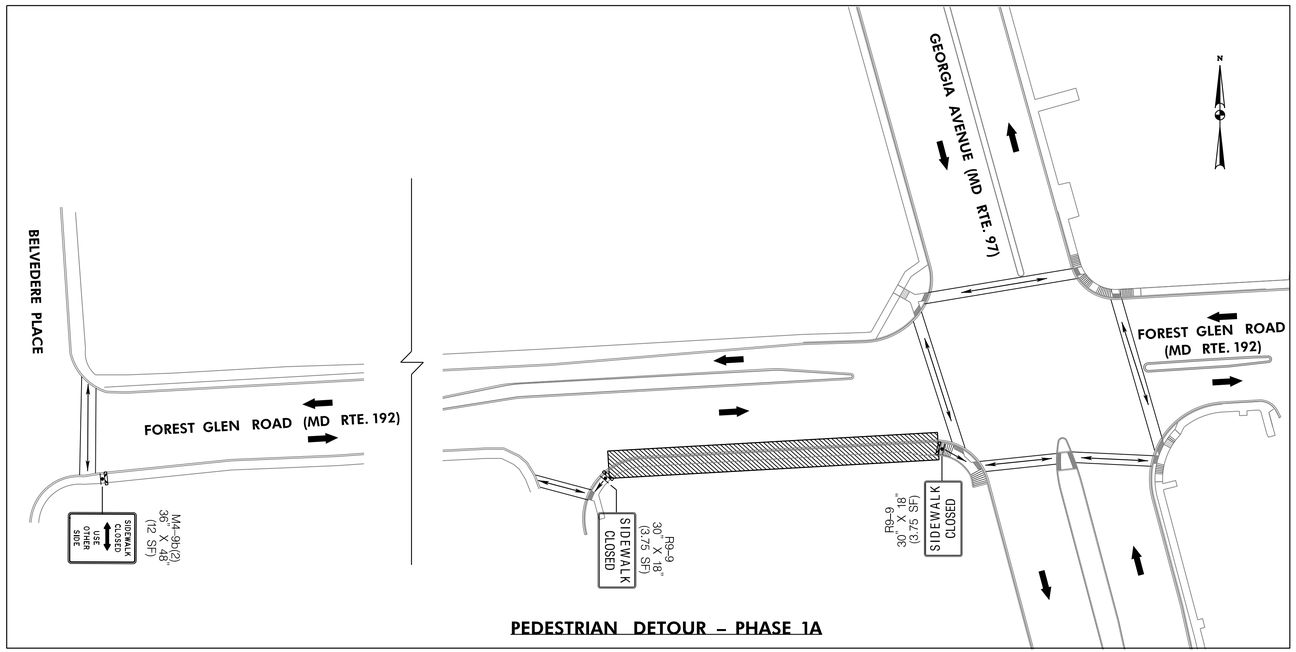
FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PHASE 5
MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

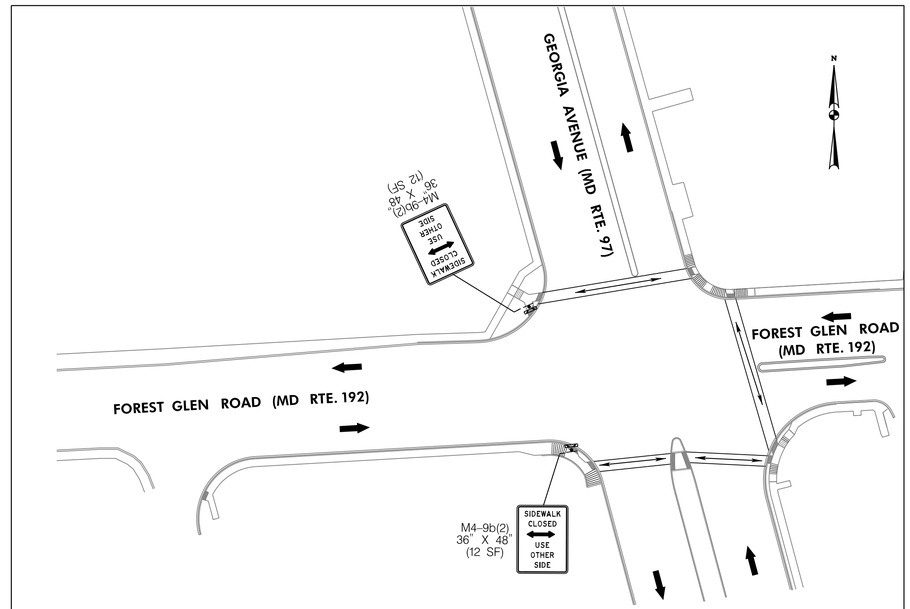
DWG. MT-0005 SHEET NO. 13 OF 183

MT-08

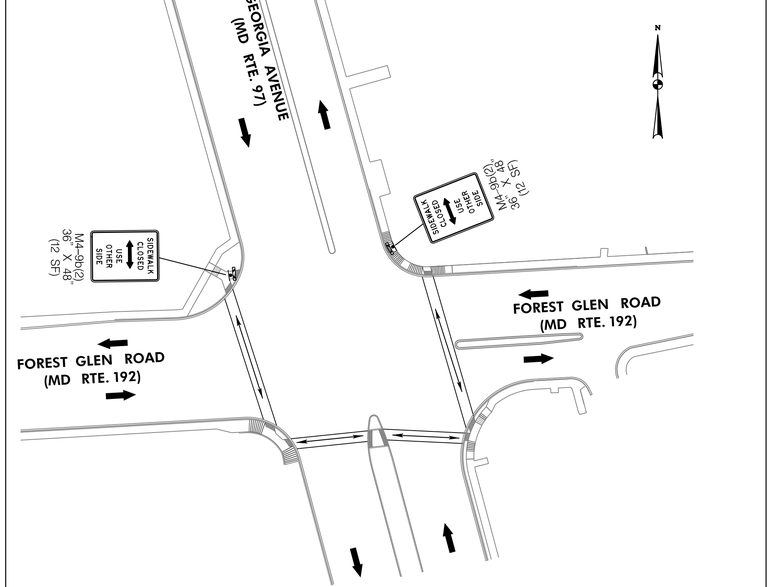
PLOTTED: 10/18/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0005_Forest Glen Passageway.dgn



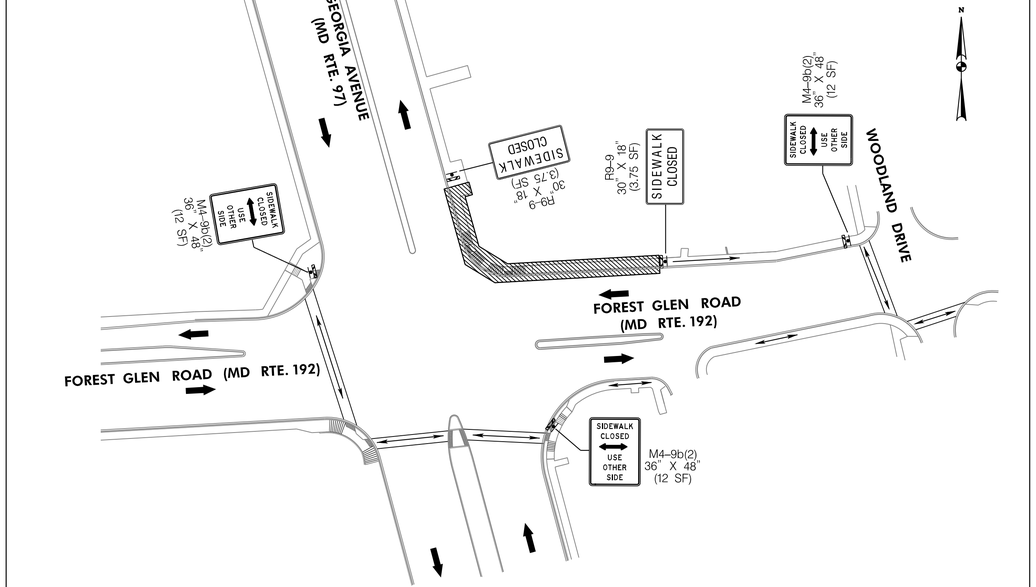
PEDESTRIAN DETOUR – PHASE 1A



PEDESTRIAN DETOUR – PHASES 1B, 2A, 2B



PEDESTRIAN DETOUR – PHASES 3 & 4



PEDESTRIAN DETOUR – PHASE 5

LEGEND

- SIGN
- DIRECTION OF TRAFFIC
- WORK AREA
- DETECTABLE BARRICADE
- PEDESTRIAN MOT

MT-09

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MONTGOMERY COUNTY
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ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY TMB DRAWN BY EFM CHECKED BY RJG

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
PEDESTRIAN DETOUR
MAINTENANCE OF TRAFFIC PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. SHEET NO. 14 OF 183

PLOTTED: 10/17/2024
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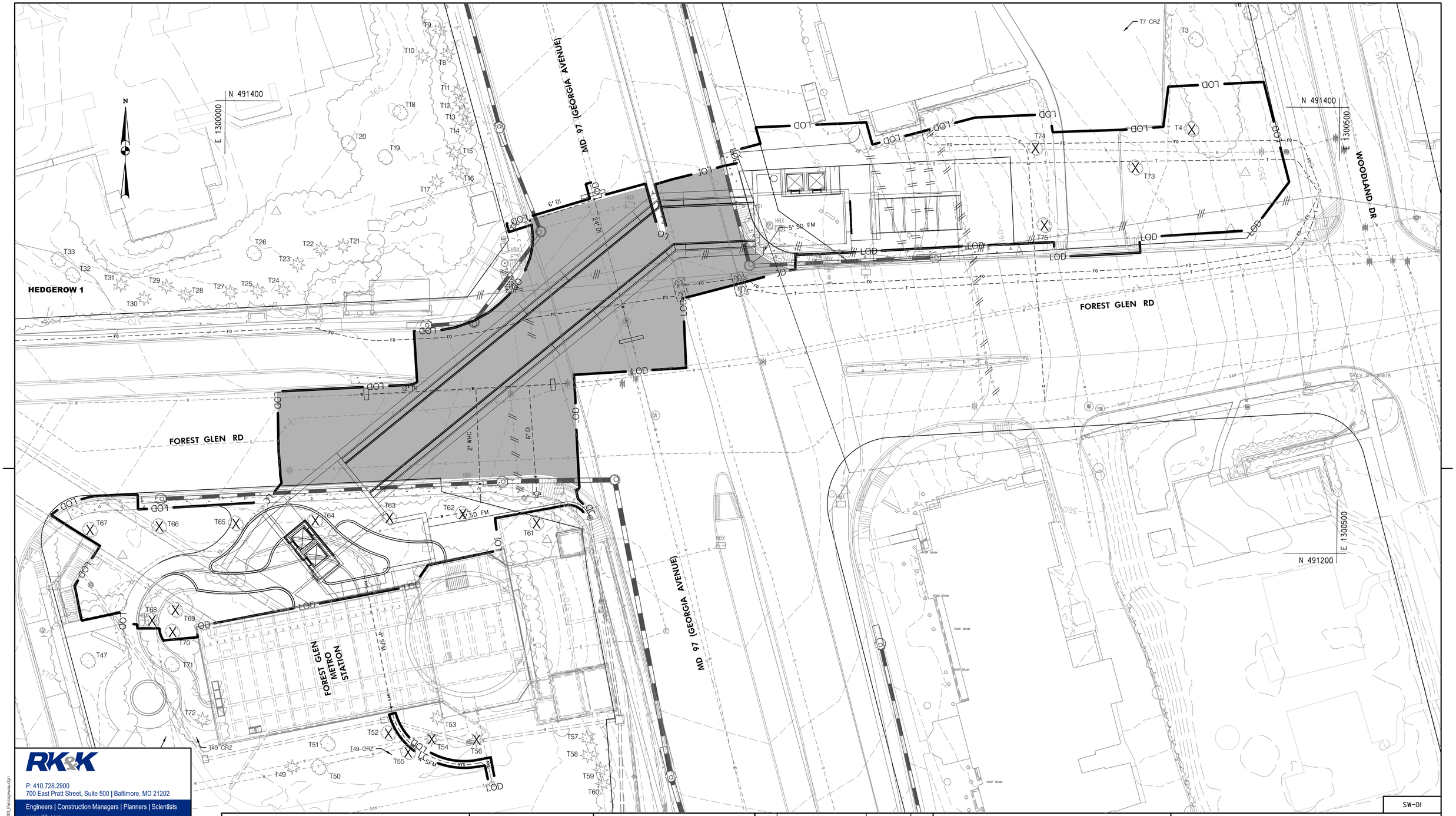
PLOTTED: 10/17/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pMT-0006_Forest Glen Passageway.dgn



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Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY FS DRAWN BY FS CHECKED BY JW

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

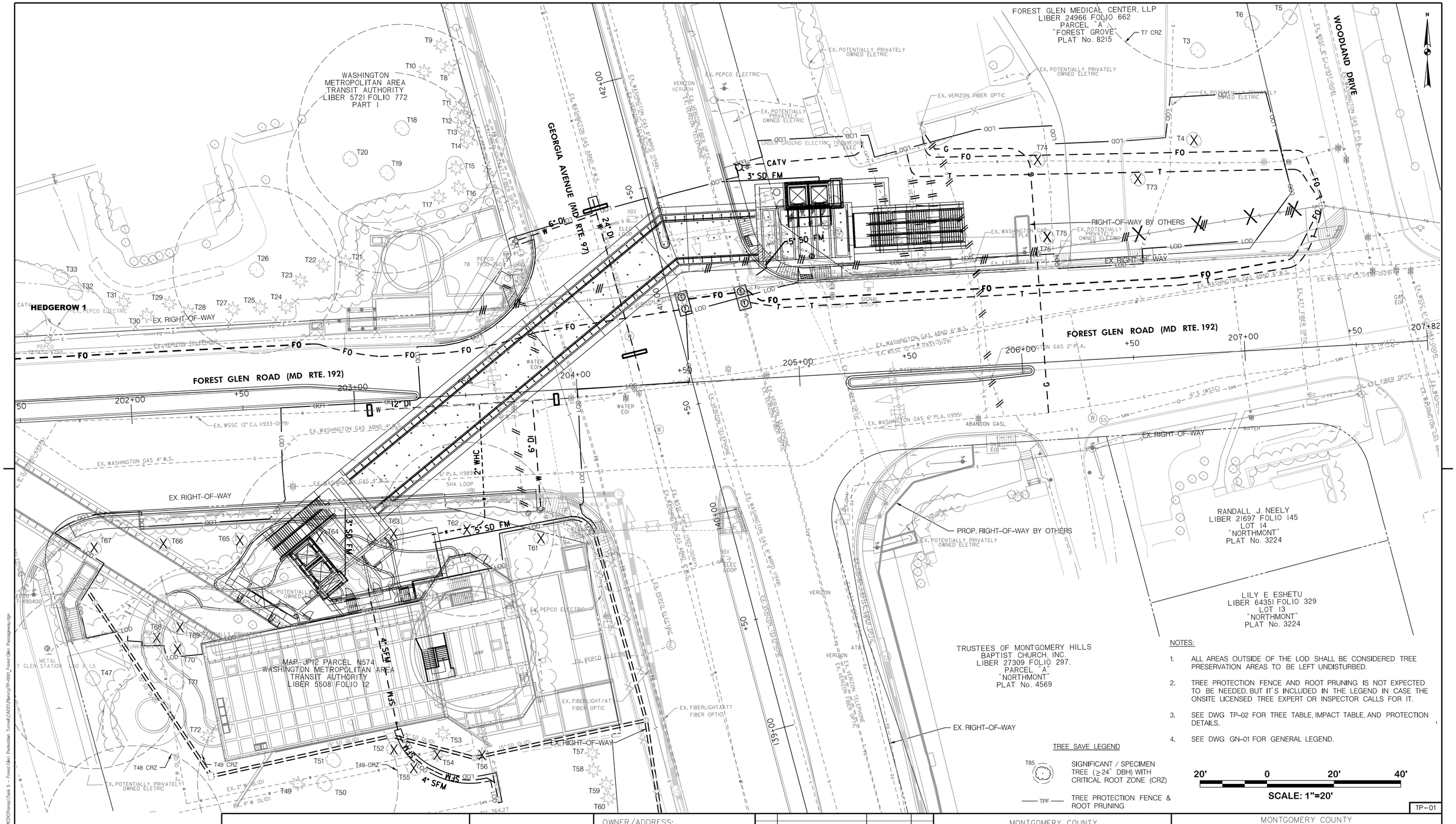
FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)
LIMIT OF DISTURBANCE

SCALE 1"=20' DATE

DWG. SW-01 SHEET NO. 15 OF 183

PLOTTED: Thursday, October 17, 2024 AT 04:05 PM
FILE: P:\MoCo\Forest Glen Passageway\CADD\pSW-P001_Passageway.dgn

PLOTTED: Thursday, October 17, 2024 AT 04:05 PM
FILE: P:\MoCo\Forest Glen Passageway\CADD\pSW-P001_Passageway.dgn



NOTES:

1. ALL AREAS OUTSIDE OF THE LOD SHALL BE CONSIDERED TREE PRESERVATION AREAS TO BE LEFT UNDISTURBED.
2. TREE PROTECTION FENCE AND ROOT PRUNING IS NOT EXPECTED TO BE NEEDED, BUT IT'S INCLUDED IN THE LEGEND IN CASE THE ONSITE LICENSED TREE EXPERT OR INSPECTOR CALLS FOR IT.
3. SEE DWG TP-02 FOR TREE TABLE, IMPACT TABLE, AND PROTECTION DETAILS.
4. SEE DWG GN-01 FOR GENERAL LEGEND.

TREE SAVE LEGEND

T85 — SIGNIFICANT / SPECIMEN TREE (≥24" DBH) WITH CRITICAL ROOT ZONE (CRZ)

TPF — TREE PROTECTION FENCE & ROOT PRUNING

20' 0 20' 40'

SCALE: 1"=20'

TP-01

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APPROVED

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DESIGNED BY SJK DRAWN BY AWG CHECKED BY MH

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

TREE PROTECTION PLAN

SCALE 1"=20' DATE JULY 2024

DWG. TP-01 SHEET NO. 16 OF 183

PLOTTED: 10/21/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pTP-0001_Forest Glen Passageway.dgn

Tree ID	Removal	Scientific Name	Common Name	DBH inches	Condition	Roadside Tree
T1	No	*Acer saccharum*	Sugar Maple	15	Good	No
T2	No	*Zelkova serrata*	Japanese Zelkova	10	Fair/Poor	No
T3	No	*Acer saccharum*	Sugar Maple	13	Good	No
T4	Yes	*Zelkova serrata*	Japanese Zelkova	17	Fair	No
T5	No	*Acer rubrum*	Red Maple	23	Poor	Yes
T6	No	*Acer rubrum*	Red Maple	21	Fair	Yes
T7**	No	*Acer saccharum*	Sugar Maple	33	Good/Fair	Yes
T8	No	*Pinus strobus*	Eastern white pine	15	Good	No
T9	No	*Thuja occidentalis*	Arborvitae	8	Fair	No
T10	No	*Cedrus deodara*	Deodar cedar	16	Good	No
T11	No	*Thuja occidentalis*	Arborvitae	7	Good	No
T12	No	*Thuja occidentalis*	Arborvitae	4	Good	No
T13	No	*Thuja occidentalis*	Arborvitae	7	Good	No
T14	No	*Thuja occidentalis*	Arborvitae	4	Good/Fair	No
T15	No	*Pinus strobus*	Eastern white pine	12	Fair	No
T16	No	*Pinus strobus*	Eastern white pine	16	Good/Fair	No
T17	No	*Pinus strobus*	Eastern white pine	12	Fair	No
T18**	No	*Styphnolobium japonicum*	Japanese pagoda tree	31	Good	No
T19**	No	*Styphnolobium japonicum*	Japanese pagoda tree	30	Good/Fair	No
T20	No	*Cornus kousa*	Kousa dogwood	3	Good	No
T21	No	*Pinus strobus*	Eastern white pine	15	Fair	No
T22	No	*Pinus strobus*	Eastern white pine	14	Good	No
T23	No	*Pinus strobus*	Eastern white pine	14	Good	No
T24	No	*Pinus strobus*	Eastern white pine	13	Fair/Poor	No
T25	No	*Pinus strobus*	Eastern white pine	11	Fair	No
T26*	No	*Quercus palustris*	Pin oak	25	Good	No
T27	No	*Thuja occidentalis*	Arborvitae	7	Good	No
T28	No	*Pinus strobus*	Eastern white pine	14	Fair	No
T29	No	*Pinus strobus*	Eastern white pine	12	Fair	No
T30	No	*Pinus strobus*	Eastern white pine	13	Fair/Poor	No
T31	No	*Pinus strobus*	Eastern white pine	13	Poor	No
T32	No	*Morus alba*	White mulberry	6	Good/Fair	No
T33	No	*Cercis canadensis*	Eastern redbud	8	Good/Fair	No
T34**	No	*Styphnolobium japonicum*	Japanese pagoda tree	35	Good	No
T35*	No	*Acer rubrum*	Red maple	25	Fair	No
T36**	No	*Quercus palustris*	Pin oak	30	Good	No
T37	No	*Quercus acutissima*	Sawtooth Oak	20	Good	Yes ***
T38	No	*Tsuga canadensis*	Eastern hemlock	10	Good	Yes ***
T39	No	*Juniperus virginiana*	Eastern red cedar	16	Good	Yes ***
T40	No	*Tsuga canadensis*	Eastern hemlock	11	Good	Yes ***
T41	No	*Juniperus virginiana*	Eastern red cedar	20	Good	Yes ***
T42	No	*Juniperus virginiana*	Eastern red cedar	15	Good/Fair	Yes ***
T43	No	*Juniperus virginiana*	Eastern red cedar	8	Dead	Yes ***
T44*	No	*Ulmus rubra*	Slippery elm	24	Fair	Yes ***
T45	No	*Juniperus virginiana*	Eastern red cedar	9	Poor	Yes ***
T46	No	*Acer rubrum*	Red maple	12	Fair	Yes ***
T47*	No	*Quercus phellos*	Willow oak	27	Good	No
T48*	No	*Quercus phellos*	Willow oak	27	Good	No
T49**	No	*Cedrus deodara*	Deodar cedar	30	Good	No
T50	No	*Malus sp.*	Crabapple sp.	5	Fair	No
T51	No	*Malus sp.*	Crabapple sp.	6	Poor	No
T52	Yes	*Malus sp.*	Crabapple sp.	8	Good	No
T53	No	*Cedrus deodara*	Deodar cedar	23	Good/Fair	No
T54	Yes	*Cedrus deodara*	Deodar cedar	20	Good	No
T55	Yes	*Malus sp.*	Crabapple sp.	5	Good	No
T56	Yes	*Cedrus deodara*	Deodar cedar	23	Good	No
T57	No	*Thuja occidentalis*	Arborvitae	12	Good	No
T58	No	*Thuja occidentalis*	Arborvitae	6	Good	No
T59	No	*Thuja occidentalis*	Arborvitae	5	Good	No
T60	No	*Thuja occidentalis*	Arborvitae	7	Good	No
T61	Yes	*Quercus phellos*	Willow oak	21	Good	No
T62*	Yes	*Quercus phellos*	Willow oak	26	Good	No
T63	Yes	*Quercus phellos*	Willow oak	23	Good	No
T64*	Yes	*Quercus phellos*	Willow oak	25	Good	No
T65	Yes	*Quercus phellos*	Willow oak	16	Good	No
T66	Yes	*Quercus phellos*	Willow oak	21	Good	No
T67	Yes	*Quercus phellos*	Willow oak	18	Good	No
T68	Yes	*Acer griseum*	Paperbark maple	8	Poor	No
T69	Yes	*Acer griseum*	Paperbark maple	10	Good/Fair	No
T70	Yes	*Acer griseum*	Paperbark maple	11	Good	No
T71	No	*Acer buergeranum*	Trident maple	11	Fair	No
T72	No	*Juniperus virginiana*	Eastern red cedar	14	Good	No
T73	Yes	*Prunus sp.*	Ornamental cherry	23	Poor	No
T74	Yes	*Prunus sp.*	Ornamental cherry	18	Fair/Poor	No
T75	Yes	*Prunus sp.*	Ornamental cherry	22	Poor	No

* Significant Tree (> or = 24" DBH)

** Specimen Tree (> or = 30" DBH)

*** In ROW for "paper" road (not built)

TREE IMPACTS	
17	Total Tree impacts
2	Significant Tree
0	Specimen Trees
0	Roadside Trees

TREE CONDITION ASESSMENT GUIDELINES:

EXCELLENT - healthy tree with exceptional growth form, no visible defects, well-formed crown; few minor dead branches acceptable; this tree condition is rare.

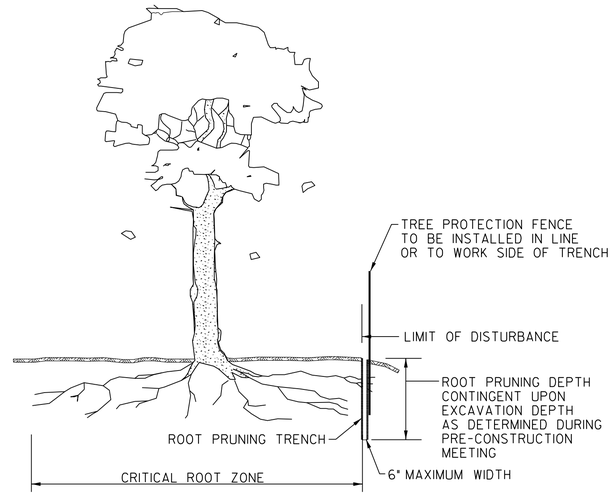
GOOD - healthy tree; very minor defects/decay acceptable with callous forming/complete; well-formed crown; minor lean and/or few minor/major dead branches acceptable; vines may be growing along trunk but not present within crown.

FAIR - health questionable/stress evident; structurally sound tree; defects present that do not affect structural integrity; moderate lean; minor/major dead branches may be present; crown not broken out but not necessarily well formed or even; vines may be growing along trunk and within crown.

EX. Fair tree could be experiencing insect damage or exhibit a growth form that makes it very susceptible to wind damage in an open setting.

POOR - significant health problems; may be structurally unsound; may be dead or dying; may contain significant decay; may have broken or missing top/crown; may have heavy lean; vines may be significantly affecting tree health.

Note: These guidelines were developed in-house based on the professional judgment of our Certified Arborists and other senior environmental staff.



NOTES:

1. RETENTION AREAS TO BE ESTABLISHED AS PART OF THE FOREST CONSERVATION PLAN REVIEW PROCESS.
2. BOUNDARIES OF RETENTION AREAS TO BE STAKED, FLAGGED AND/OR FENCED PRIOR TO TRENCHING.
3. EXACT LOCATION OF TRENCH SHOULD BE IDENTIFIED.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH SOIL REMOVED OR ORGANIC SOIL.
5. ROOTS SHOULD BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
6. IN SOME INSTANCES, IT MAY BE BENEFICIAL TO PERFORM ROOT PRUNING AT THE EDGE OF EXCAVATION RATHER THAN AT THE LOD, PROVIDED THE ROOTS BETWEEN THE EXCAVATON AND THE LOD ARE PROTECTED DURING CONSTRUCTION.

ROOT PRUNING DETAIL

NOT TO SCALE

Source: Adapted from Steve Clark & Associates/ACRT, Inc, and Forest Conservation Manual, 1991

TP-02

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GAITHERSBURG, MARYLAND

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DESIGN SECTION
240-777-7221

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DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

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Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY SJK DRAWN BY AWG CHECKED BY MH

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

TREE PROTECTION NOTES & DETAILS

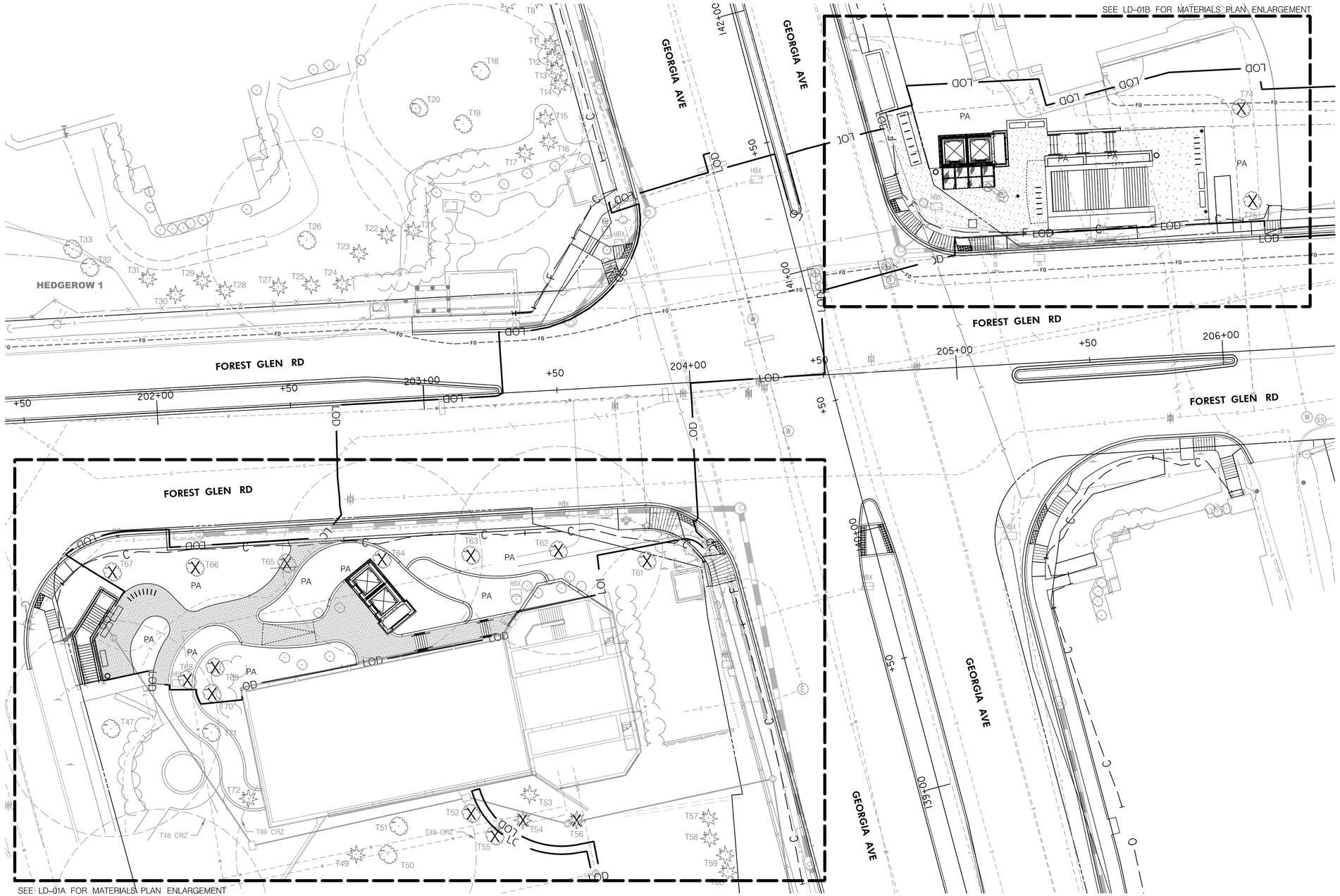
SCALE N.T.S. DATE JULY 2024

DWG. TP-02 SHEET NO. 17 OF 183

PLOTTED: 9/11/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pTP-0002_Forest Glen Passageway.dgn

PLOTTED: 9/11/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pTP-0002_Forest Glen Passageway.dgn

SEE LD-01B FOR MATERIALS PLAN ENLARGEMENT



SEE LD-01A FOR MATERIALS PLAN ENLARGEMENT

LEGEND

HARDSCAPE

- BRICK PAVING
- CONCRETE PAVING

PA PLANTING AREA

EX. TREE TO BE REMOVED

N

20' 0 20' 40'

SCALE: 1" = 20'

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

MATERIALS & LAYOUT PLAN

SCALE 1" = 20' DATE AUGUST 7, 2024

DWG. LD-01 SHEET NO. 18 OF 183

PLOTTED: Friday, October 18, 2024 AT 02:51 PM
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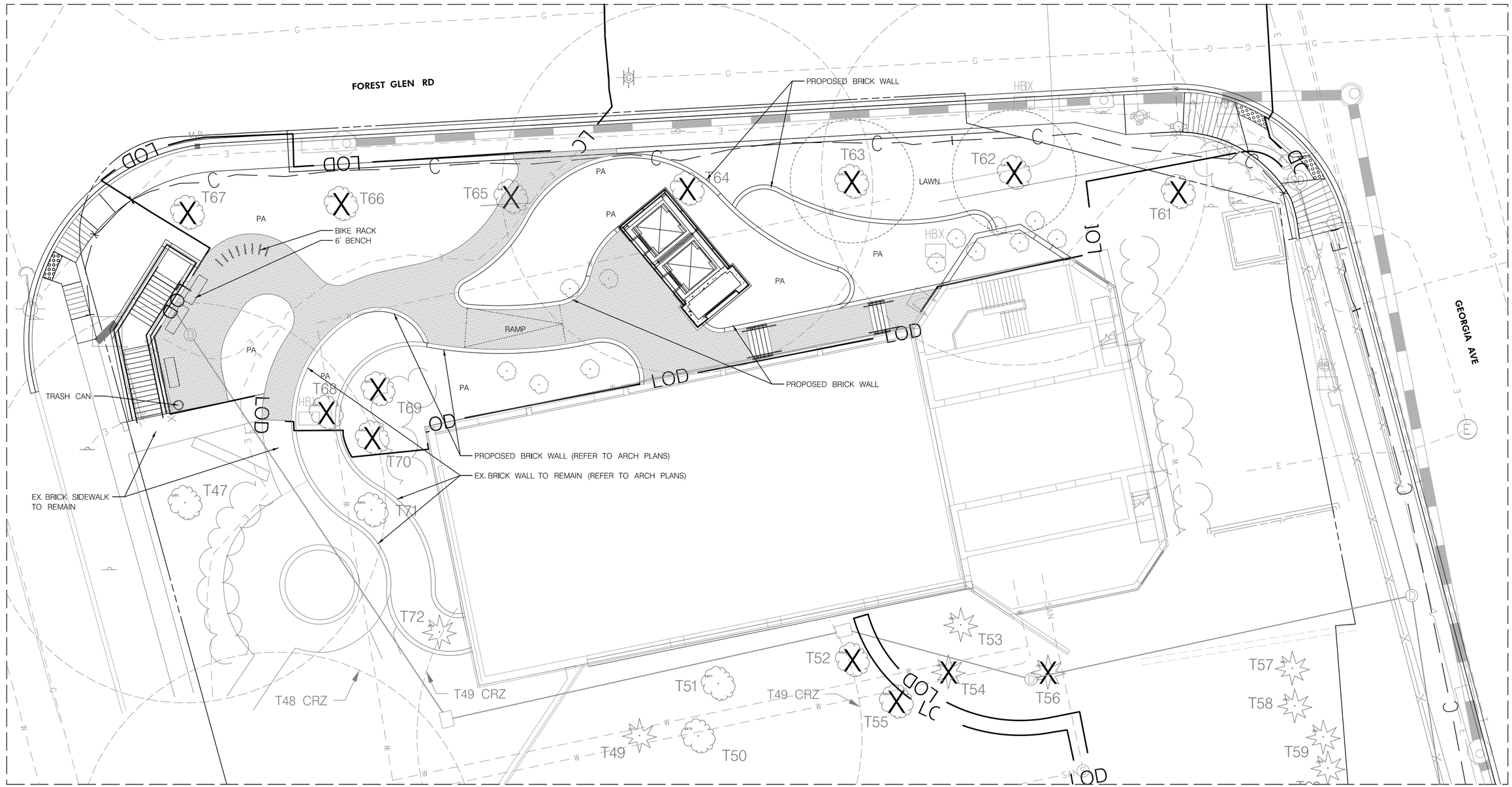

LEGEND

HARDSCAPE		PA	PLANTING AREA
	BRICK PAVING	⊗	EX. TREE TO BE REMOVED
	CONCRETE PAVING	*REFER TO ARCHITECTURAL PLANS FOR ALL RETAINING WALL PLANS	

N

10' 0 10' 20'

SCALE: 1" = 10'

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

MATERIALS PLAN ENLARGEMENT – SW

SCALE 1" = 10' DATE AUGUST 7, 2024

DWG. LD-01A SHEET NO. 19 OF 183

PLOTTED: Friday, October 18, 2024 AT 02:52 PM
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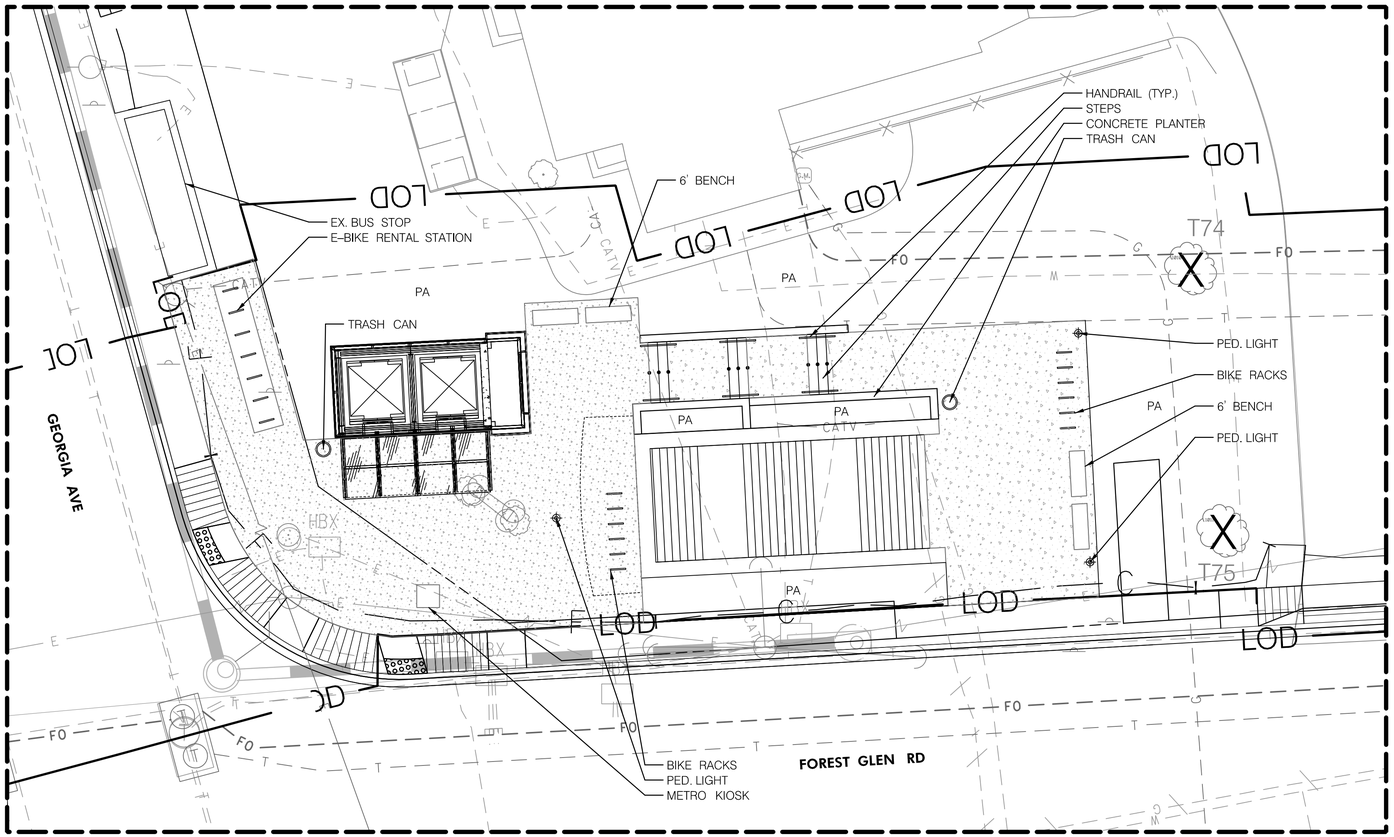

LEGEND

HARDSCAPE

BRICK PAVING

CONCRETE PAVING

PA PLANTING AREA

EX. TREE TO BE REMOVED

N

10' 0 10' 20'

SCALE: 1" = 10'

MAHAN RYKIEL
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

MATERIALS PLAN ENLARGEMENT – NE

SCALE 1" = 10' DATE AUGUST 7, 2024

DWG. LD-01B SHEET NO. 20 OF 183

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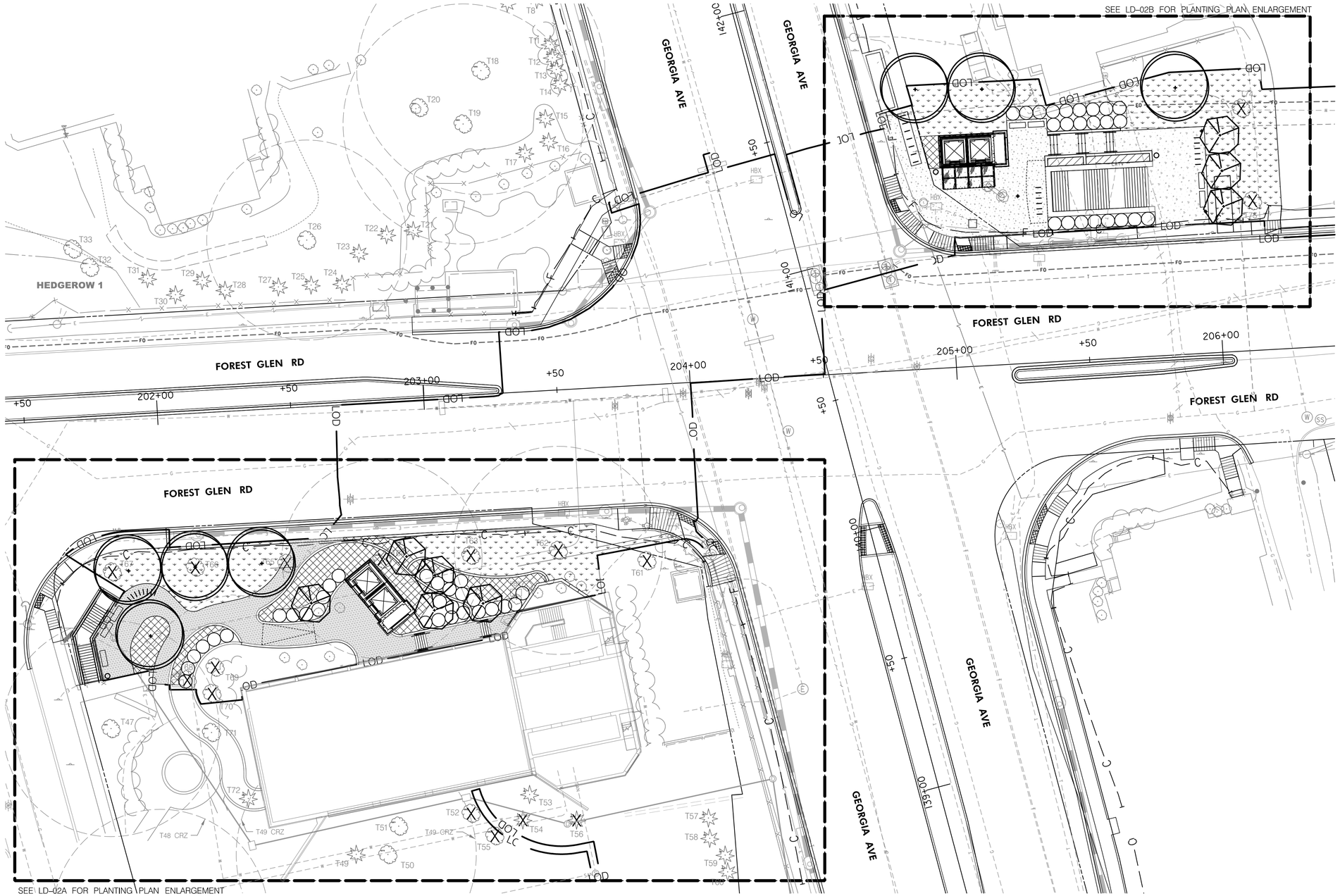

N

20' 0 20' 40'

SCALE: 1" = 20'

MAHAN **RYKIEL**
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

PLANTINIG PLAN

SCALE 1" = 20' DATE AUGUST 7, 2024

DWG. LD-02 SHEET NO. 21 OF 183

PLOTTED: Friday, October 18, 2024 AT 02:52 PM
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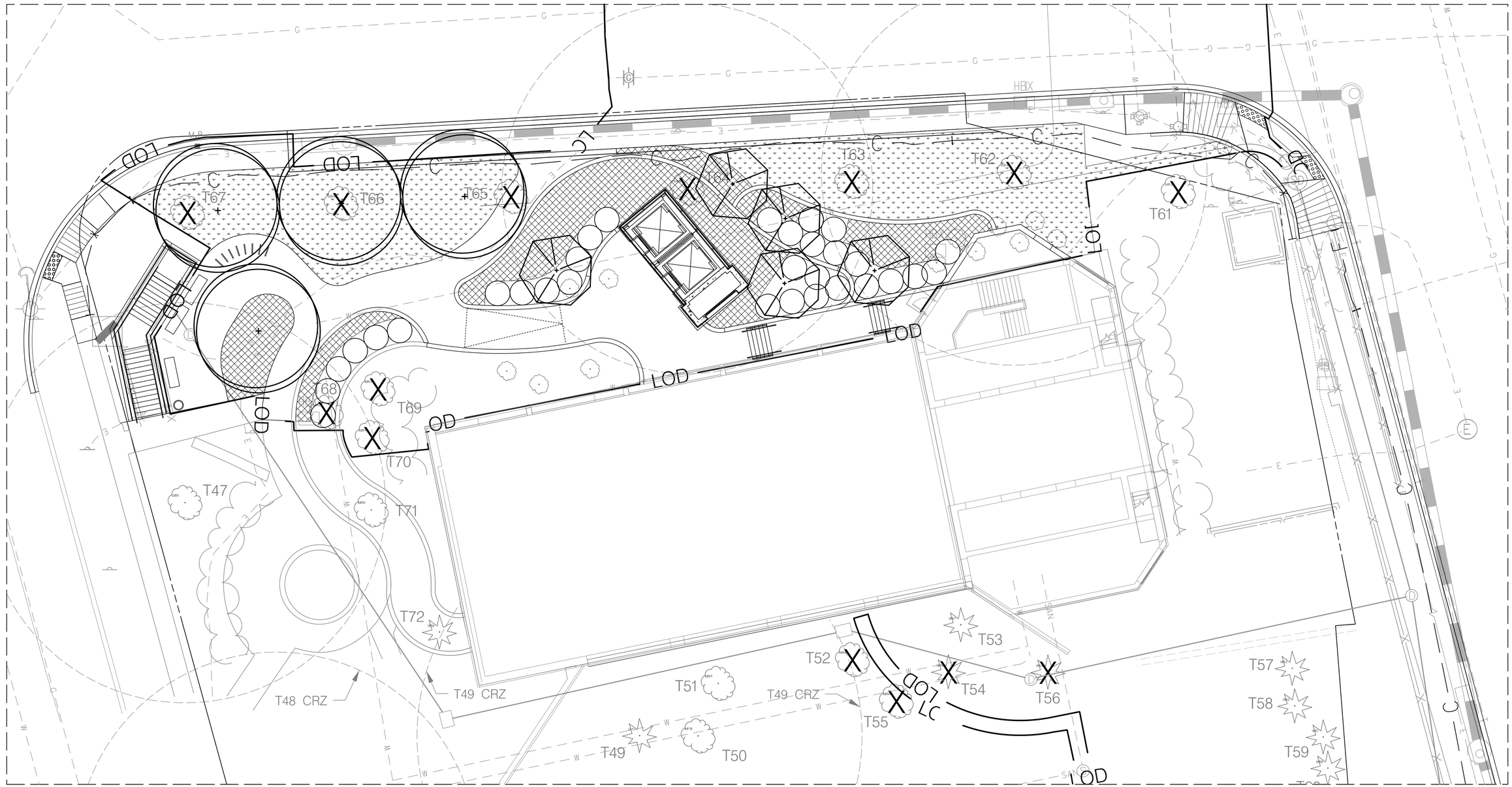

LEGEND

EX. TREE TO BE REMOVED	SHRUB	LAWN
	SHADE TREE	GROUNDCOVER
	FLOWERING TREE	ORNAMENTAL GRASS

N

10' 0 10' 20'

SCALE: 1" = 10'

MAHAN **RYKIEL**
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

PLANTINIG PLAN ENLARGEMENT – SW

SCALE 1" = 10' DATE AUGUST 7, 2024

DWG. LD-02A SHEET NO. 22 OF 183

PLOTTED: Friday, October 18, 2024 AT 02:53 PM
FILE: S:\21 Projects\21047 Forest Glen Passageway\MRA\02 35% Submission\CAD\pLD-0002A_Forest Glen Passageway.dgn

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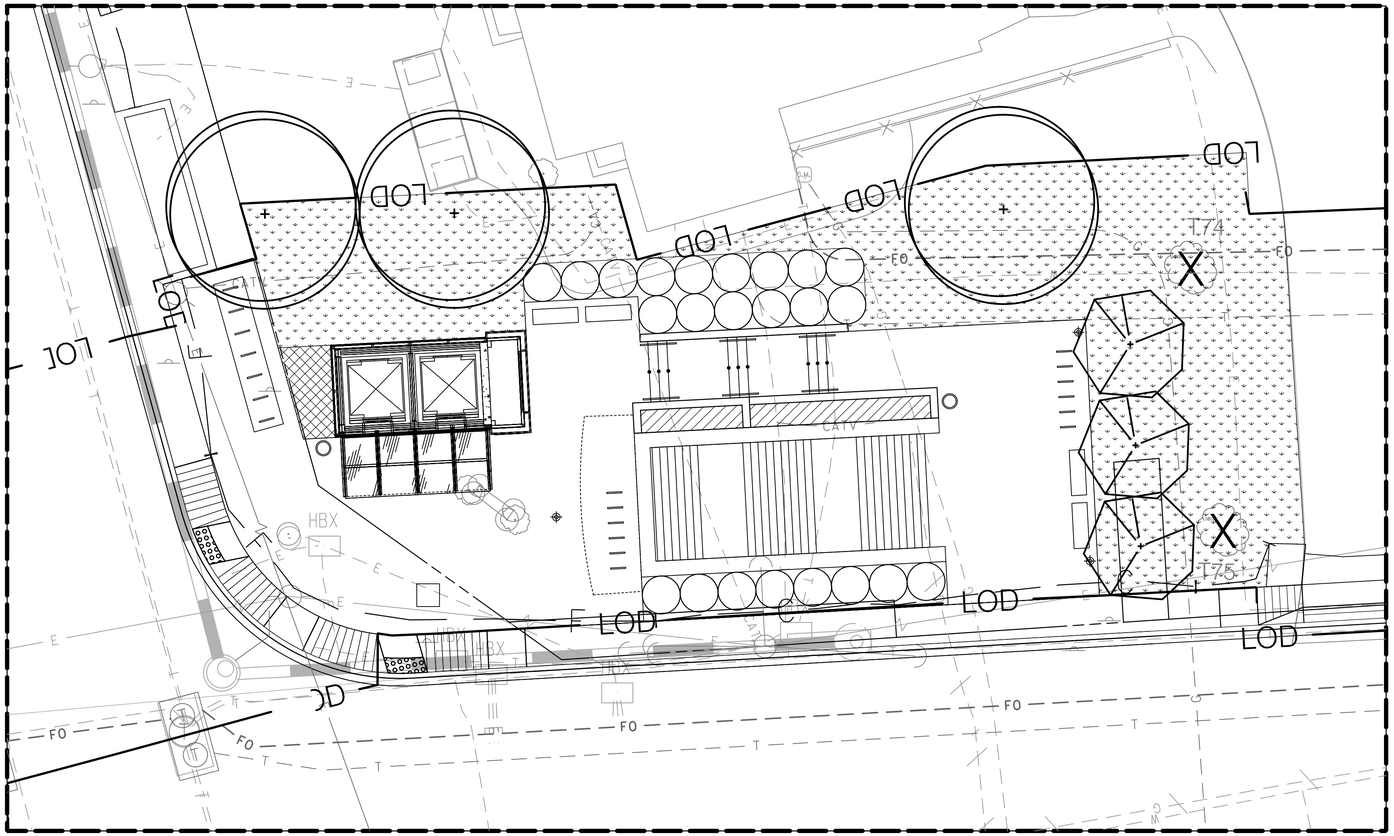

LEGEND

- EX. TREE TO BE REMOVED
- SHADE TREE
- FLOWERING TREE
- SHRUB
- GROUNDCOVER
- ORNAMENTAL GRASS
- LAWN

N

10' 0 10' 20'

SCALE: 1" = 10'

MAHAN **RYKIEL**
LANDSCAPE ARCHITECTURE
URBAN DESIGN & PLANNING

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Chief, Division of Transportation Engineering — Date

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MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

PLANTINIG PLAN ENLARGEMENT – NE

SCALE 1" = 10' DATE AUGUST 7, 2024

DWG. LD-02B SHEET NO. 23 OF 183

PLOTTED: Friday, October 18, 2024 AT 02:53 PM
FILE: S:\21 Projects\21047 Forest Glen Passageway\MRA\02 35% Submission\CAD\pLD-0002B_Forest Glen Passageway.dgn

PLOTTED: Friday, October 18, 2024 AT 02:53 PM
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Autodesk Docs://Forest Glen/Structural_1B3091_Forest Glen Station.rvt
9/26/2024 2:36:45 PM

GENERAL STRUCTURAL NOTES

1. SPECIFICATIONS:
   A. WMATA STANDARD SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION.
   B. WMATA "DESIGN DRAWINGS."
2. DESIGN CODES, MANUALS AND STANDARDS:
   A. WMATA "MANUAL OF DESIGN CRITERIA FOR MAINTAINING AND CONTINUED OPERATION OF FACILITIES AND SYSTEMS, NOVEMBER 2016."
   B. ACI 318-99 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ALTERNATE DESIGN METHOD.
   C. AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION.
   D. AMERICAN WELDING SOCIETY STANDARD D1.1.
   E. ASCE 7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
   F. INTERNATIONAL BUILDING CODE, 2021.
   G. ACI 530-16 "BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES".
   H. WMATA "ADJACENT CONSTRUCTION PROJECT MANUAL" 2015.
3. DESIGN LOADING:
   A. DEAD LOADS

- CONCRETE	150 PCF
- STEEL	490 PCF
- SOILS	130 PCF (BUOYANT WEIGHT = 68 PCF)
- ROCK	170 PCF

   B. LIVE LOADS

- STAIRWAYS	150 PSF OR CONCENTRATED LOAD OF 300 LBS. ON STAIR TREAD
- MEZZANINE	150 PSF
- PASSAGEWAYS	150 PSF
- EQUIPMENT AND SERVICE ROOMS	250 PSF (UNO)
- HORIZONTAL LOAD AT TOP OF CONCRETE PARAPET	150 PLF
- VERTICAL LOAD AT TOP OF CONCRETE PARAPET	100 PLF
- SAFETY WALKS	85 PSF
- RAILINGS	200 LBS. IN ANY DIRECTION OR 50 PLF
- GRATINGS AND HATCHES	250 PSF, OR HS 25 IF SUBJECT TO WHEEL LOADS

4. DESIGN LOADINGS FOR SURFACE ELEVATORS:
   A. SURFACE ELEVATORS

- SNOW LOAD	30 PSF
- BASIC WIND LOAD	40 PSF
- CANOPY FRAME LIVE LOAD	100 PLF FOR FREE EDGES
- END REACTION OF EACH ELEVATOR BEAM	18,000 LBS. MINIMUM
- ELEVATOR PIT SLAB	AS PER MEP AND ELEVATOR MANUFACTURER DWGS. PLUS IMPACT

   5. WIND LOADS:

- COMPONENTS AND CLADDING	IN ACCORDANCE WITH ASCE 7-16
- BASIC WIND VELOCITY	120 MPH
- EXPOSURE	C
- CATEGORY	III

6. CONCRETE:
   A. ALL CONSTRUCTION JOINTS IN EXTERIOR WALLS SHALL BE BONDED JOINTS.
   B. CONTRACTOR SHALL SUBMIT THE LOCATION OF PROPOSED CONSTRUCTION JOINTS THAT ARE NOT SHOWN ON THE DRAWINGS FOR APPROVAL. ENGINEER APPROVED ADDITIONAL CONSTRUCTION JOINTS SHALL NOT RESULT IN ADDITIONAL EXPENSE TO THE OWNER. UNLESS OTHERWISE NOTED ON THE DRAWINGS, JOINTS SHOWN SHALL BE CONSTRUCTION JOINTS.
   C. ALL CONTRACTION JOINTS SHALL HAVE A BOND BREAKER APPLIED.
   D. PROVIDE 9" PVC WATERSTOPS IN ALL EXTERIOR CONSTRUCTION, EXPANSION AND CONTRACTION JOINTS. FOR JOINT DETAILS, SEE DWG. NO. ST-S-001 AND S-602.
   E. CHAMFER ALL EXPOSED EDGES 3/4" X 3/4". CHAMFER REQUIRED UNLESS NOTED OTHERWISE IN DRAWINGS.
   F. ALLOW 48 HOURS MINIMUM CURING TIME BETWEEN PLACEMENT OF ADJACENT CONCRETE POURS.
   G. ALL CONDUITS IN THE FINAL LINER AND SLABS SHALL BE ROUTED ON THE DRY SIDE OF THE WATERSTOPS.
   I. REINFORCED CONCRETE STRUCTURES SHALL BE DETAILED AND CONSTRUCTED IN ACCORDANCE WITH THE CURRENT "ACI STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
   J. SEE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL AND SPECIAL SYSTEM DRAWINGS FOR ALL EMBEDDED ITEMS SUCH AS SCREWS, ANCHORS, ELECTRICAL CONDUITS, OPENINGS, ETC. WHICH MAY INTERFERE WITH CONCRETE CONSTRUCTION.
   K. CONCRETE STRENGTH SHALL BE AS FOLLOWS:

- WALLS, SLABS, SLABS ON GRADE, BEAMS, COLUMNS AND ALL OTHER CAST-IN-PLACE CONCRETE	f'c=4,000 PSI
- PRECAST CONCRETE	f'c=6,000 PSI

   L. CONTRACTOR SHALL COORDINATE LOCATION OF JOINTS WITH PIPE OPENINGS, EQUIPMENT, AND REINFORCING STEEL LAP REQUIREMENTS. NUMBER OF CONSTRUCTION JOINTS SHOWN IS A MINIMUM.
7. REINFORCING STEEL:
   A. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. WHERE REQUIRED FOR WELDING, REINFORCING SHALL BE ASTM A706.
   B. CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS:
   - UNFORMED CONCRETE BOTTOM BARS IN FOOTINGS AND SLABS ON EARTH, GRAVEL OR CRUSHED STONE.....3"
   - EXTERIOR UNFORMED SURFACE OF WALLS.....3"
   - BEAMS, COLUMNS, SLABS AND WALLS EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS.....2"
   - BEAMS, COLUMNS AND WALLS NOT EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS.....1 1/2"
   - SLABS NOT EXPOSED TO GROUND OR WEATHER AFTER THE REMOVAL OF FORMS.....3/4"
   C. ALL SPLICES SHALL BE CLASS B TENSION LAPS UNLESS OTHERWISE NOTED ON THE PLANS.
   D. ALL REINFORCEMENT SHALL BE MADE ELECTRICALLY CONTINUOUS. THIS INCLUDES INTERFACE WITH ADJACENT CONTRACTS; CHIP OUT EXISTING CONCRETE TO MAKE CONNECTION WHERE NECESSARY. UNLESS OTHERWISE SHOWN OR NOTED, ELECTRICALLY BONDED CIRCUMFERENTIAL CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT A MAXIMUM INTERVAL OF 50'-0" MEASURED HORIZONTALLY. FOR DETAILS OF ELECTRICAL BONDING, SEE DWG. NO. ST-S-007 AND ST-S-021.
   E. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315-99 "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES." THE CONTRACTOR SHALL SUBMIT DRAWINGS OF REINFORCING STEEL BEFORE PROCEEDING WITH FABRICATION.
   F. WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A185-06. THE FABRIC SHALL BE FURNISHED IN FLAT SHEETS.
   G. UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS, SPLICE AND EMBEDMENT LENGTHS FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH TABLE SHOWN BELOW:

REINFORCING SPLICE AND DEVELOPMENT LENGTHS (INCHES)

	BAR #3	BAR #4	BAR #5	BAR #6	BAR #7	BAR #8	BAR #9	BAR #10	BAR #11
Ld	14	19	24	29	42	48	54	61	67
TOP BAR Ld	18	25	31	37	54	62	70	79	87
Ls	18	25	31	37	54	62	70	79	87
TOP BAR Ls	23	32	40	48	70	81	91	103	113

Ld=DEVELOPMENT LENGTH
Ls=SPLICE LENGTH
NOTE: TOP BARS ARE DEFINED AS BARS IN BEAMS OR SLABS HAVING MORE THAN 12" OF FRESH CONCRETE CAST BELOW BAR.

8. STRUCTURAL STEEL:
   A. MATERIALS SHALL CONFORM TO THE FOLLOWING:

- W-, C-, AND L-SHAPES	ASTM A992 GRADE 50
- PLATES	ASTM A36
- TUBES	ASTM A500 GRADE B
- STRUCTURAL BOLTS	ASTM F3125 GRADE A325 TYPE 1
- ANCHOR BOLTS	ASTM F1554 GRADE 55

   B. THE CONTRACTOR SHALL SUBMIT ERECTION PLANS AND SHOP DETAILS BEFORE PROCEEDING WITH FABRICATION.
   C. MILL BOTTOM OF ALL COLUMNS AND FINISH TOP OF ALL BASE PLATES IN ACCORDANCE WITH AISC SPECIFICATIONS. BASE PLATES SHALL BE WELDED TO BOTTOM OF COLUMNS.
   D. 1/4" THICK LEVELING PLATES SHALL BE USED UNDER ALL BEAMS AND COLUMNS RESTING ON CONCRETE.
   E. ALL SHOP CONNECTIONS SHALL BE WELDED WITH ELECTRODES AS SPECIFIED. ALL FIELD CONNECTIONS SHALL BE HIGH STRENGTH BOLTED JOINTS, TYPE ST, EXCEPT WHERE NOTED. BOLTS SHALL BE GRADE A325 TYPE 1.
   F. ELECTRODES FOR WELDING CONNECTIONS SHALL BE AS FOLLOWS:

SHIELDED METAL ARC	E70XX
SUBMERGED ARC	F7X-EXXX

   G. CONNECTION DETAILS SHALL BE DESIGNED AND SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR AND ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS PREPARED AND SIGNED AND SEALED BY A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF MARYLAND.
   H. UNLESS NOTED OTHERWISE, ALL ANCHOR BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
   I. ALL GROUT UNDER STEEL MEMBERS SHALL BE NON-SHRINK "PRE-MIX" TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI, UNLESS OTHERWISE NOTED OR SPECIFIED.
   J. STEEL TEMPLATES SHALL BE USED TO SET ANCHOR BOLTS PLUMB AND MAINTAIN PROPER LOCATIONS WHEN PLACING CONCRETE.
9. MASONRY:
   A. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530-16/ASCE 5-13.
   B. CONTRACTOR IS RESPONSIBLE FOR LATERAL BRACING OF MASONRY WALLS DURING CONSTRUCTION.
   C. HOLLOW UNITS: MIN. 2,800 PSI AT 28-DAYS, ASTM C90, GRADE N, NORMAL WEIGHT, f'm=2,000 PSI.
   D. MORTAR: ASTM C270, TYPE S, MIN. 1,800 PSI AT 28-DAYS, 3/8" FULL BEDDING. REMOVE MORTAR PROTRUDING INTO CELL CAVITIES TO BE REINFORCED AND GROUTED.
   E. GROUT: ASTM C476, MIN. 2,000 AT 28-DAYS, 3/8" AGGREGATE MAX., 8"-10" SLUMP. CELLS TO BE GROUTED FOR FULL WALL HEIGHT.
   F. REINFORCEMENT:
   1. HORIZONTAL JOINTS: STD. DUR-O-WALL AT 16" OC, USE PREFABRICATED CORNERS AND TEES AT WALL INTERSECTIONS, OVERLAP DISCONTINUED ENDS AND EXTEND INTO COLUMNS 6" MIN.
   2. VERTICAL AND HORIZONTAL REINFORCEMENT: ASTM A615, GRADE 60, PROVIDE MINIMUM #4 BARS TYP. AT WALL INTERSECTIONS, EACH SIDE OF OPENINGS, AND AT WALL ENDS, HOOK TOP OF ALL DISCONTINUED BARS, LAP CONTINUOUS REINFORCEMENT 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
   3. USE BAR SPACERS IN EVERY 4TH COURSE WHERE CELLS ARE TO BE GROUTED.
   G. PROVIDE CLEANOUT OPENINGS FOR EACH GROUTED CELL.
   H. HIGH LIFT GROUTING SHALL BE USED WITH A MAXIMUM POUR OF 12'-0" IN 4' MAX LIFTS WITH ONE HOUR BETWEEN LIFTS. VIBRATE EACH LIFT AND RECONSOLIDATE PREVIOUS LIFT AFTER PLACING NEXT LIFT. VERTICAL CORES TO BE FILLED WITH GROUT SHALL HAVE A MINIMUM CLEAR DIMENSION OF 3"X3".
   I. PROVIDE LINTELS OVER OPENINGS LARGER THAN 1'-0", IN ACCORDANCE WITH STRUCTURAL PLANS, DETAILS AND SPECIFICATIONS.
10. GENERAL REQUIREMENTS:
   A. ELEVATIONS ARE TO BE ACTUAL FINISH ELEVATION. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL ELEVATIONS. ALL ELEVATIONS SHOWN ARE BASED ON THE NGVD 29 DATUM UNLESS NOTED OTHERWISE.
   B. SHORING REQUIRED FOR THE STABILITY OF THE UNCOMPLETED STRUCTURE OR FOR INSTALLATION OR MODIFICATION OF STRUCTURAL MEMBERS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. ANY REQUIRED MODIFICATION OF STRUCTURAL MEMBERS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
   C. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOUND IN CONTRACT DOCUMENTS AND/OR FIELD CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY THE ENGINEER WITH ALL FIELD DIMENSIONS REQUIRED TO CHECK DETAIL DRAWINGS. THE ± MARKS SHOWN WITH DIMENSIONS AND STATIONS DO NOT INDICATE ANY DEGREE OF PRECISION, MAY VARY, AND DO REQUIRE VERIFICATION BY THE CONTRACTOR.
   D. CONTRACTOR SHALL COORDINATE ALL REQUIRED OPENINGS WITH MECHANICAL, SPECIAL SYSTEM, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL COORDINATE FINAL SIZE AND LOCATION OF ALL OPENINGS WITH THE ACTUAL EQUIPMENT SUPPLIED, PROJECT REQUIREMENTS, AND WITH FIELD CONDITIONS.
   E. THE ENGINEER PERMITS NO ALTERATIONS OR OPENINGS THROUGH BEAMS OR COLUMNS, UNLESS DETAILED ON STRUCTURAL PLANS.
   F. THE SIZES AND LOCATIONS OF EQUIPMENT PADS, PEDESTALS AND FLOOR AND SLAB OPENINGS ARE DEPENDENT ON THE ACTUAL EQUIPMENT FURNISHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND VERIFY ALL SUCH ITEMS. NO DIMENSIONS INDICATED ON THESE DRAWINGS SHALL BE ALTERED WITHOUT THE ENGINEERS APPROVAL.
   G. THE STRUCTURES HAVE BEEN DESIGNED TO RESISTS DESIGN LOADS ONLY AS COMPLETED STRUCTURES, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ANY PROPOSED APPLICATION OF CONSTRUCTION LOADS WHICH EXCEED THE DESIGN LOADS, OR ANY LOADS APPLIED TO A PARTIALLY COMPLETED STRUCTURE WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
   H. ALL PLAN DIMENSIONS ON THE DRAWINGS ARE MEASURED IN A TRUE HORIZONTAL PLANE UNLESS NOTED OTHERWISE.
   I. ALL VERTICAL DIMENSIONS SHALL BE MEASURED IN A TRUE VERTICAL PLANE FOR ALL STRUCTURES UNLESS NOTED OTHERWISE.
   J. COLUMNS, WALLS, DOORS, CONSTRUCTION JOINTS AND ELEVATORS SHALL BE PLACED TRULY VERTICAL, UNLESS NOTED OTHERWISE.
   K. SUBMITTALS
   - REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
   - ALL FORMWORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE STATE OF MARYLAND. ALL SUBMISSIONS SHALL BEAR HIS SEAL AND SIGNATURE.
   - ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE STATE OF MARYLAND. ALL SUBMITTALS SHALL BEAR HIS/HER SEAL AND SIGNATURE AND MUST ACCOUNT FOR THE CONSTRUCTION SEQUENCE, DRAINAGE AND WALL THICKNESS.
   - STEEL GRATING SHALL HAVE MINIMUM DEPTH AS SHOWN ON DRAWINGS. MANUFACTURER SHALL DESIGN GRATING FOR THE LOADS SPECIFIED IN SECTION 3" DESIGN LOADING". ALL GRATING SHALL BE GALVANIZED STEEL.
   - CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS SHOWING THE LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES ON ONE PLAN FOR EACH LEVEL. CONFLICTS BETWEEN TRADES SHALL BE RESOLVED BEFORE SUBMISSION TO THE ENGINEER.
   - REVIEW OF SHOP DRAWINGS DESIGNED BY CONTRACTOR'S ENGINEERS SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.
   L. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC., FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THE CONTRACTOR SHALL NOT DISPOSE OF ANY LIQUIDS, SLURRY, SOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES OR OTHER AGENCIES HAVING JURISDICTION.
   M. THESE DESIGN STRUCTURAL DRAWINGS REPRESENT THE COMPLETED PROJECT, WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.
   N. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.
   O. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
   P. CONTRACTOR MUST ENSURE DURING ALL EXCAVATION, CONSTRUCTION, AND REPAIR PHASES NOT TO OBSTRUCT ACCESS TO WMATA FACILITIES INCLUDING STATION AND PARKING LOT.
   Q. PRECAST CONCRETE UNITS SHALL BE DESIGNED, PRODUCED, AND ERECTED IN ACCORDANCE WITH METHODS AND SPECIFICATIONS CONTAINED IN THE PCI DESIGN HANDBOOK AND ACI 318.
   R. ALL STEEL MEMBERS, STEEL HARDWARE, AND GRATING EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED.
   T. BAND ALL EDGES AND OPENINGS IN GRATINGS.

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		DATE
CHECKED	AA	MM/DD/YYYY
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APPROVED	AA	MM/DD/YYYY
		DATE

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CHIEF ENGINEER _____ DATE

B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

GENERAL NOTES

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GENERAL STRUCTURAL NOTES - CONTINUED

U. BACKFILL MATERIAL MAY NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL THE UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST 7 DAYS, AND THE WALLS AND BRACING FLOORS HAVE REACHED THE MINIMUM 28-DAY COMPRESSIVE STRENGTH. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF STRUCTURE, BACKFILL BOTH SIDES SUCH THAT THERE IS AN IMBALANCE NO GREATER THAN 3FT.

V. PROVIDE A ROUGHENED CONSTRUCTION JOINT WHERE INDICATED IN THESE DRAWINGS AND FOR SURFACES WHERE NEW CONCRETE WILL BE PLACED AGAINST EXISTING CONCRETE. CONCRETE SURFACES SHALL BE ROUGHENED TO A FULL 1/4" AMPLITUDE AND AN EPOXY BONDING COMPOUND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. ALL PVC AND HYDROPHILIC WATERSTOPS SHOWN SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

W. PLACE SLABS AND BEAMS MONOLITHICALLY UNLESS OTHERWISE INDICATED.

X. BEAM SOFFITS SHALL BE AT CONSTANT ELEVATION. SCHEDULED BEAM DEPTHS ARE MEASURED FROM THE SLAB LOW POINT. ACTUAL BEAM DEPTH VARIES WITH SLAB SURFACE SLOPES.

Y. INTENTIONALLY ROUGHEN SURFACE OF HORIZONTAL CONSTRUCTION JOINTS IN WALLS AND AT BASE OF WALL TO 1/4" AMPLITUDE.

Z. BROOM FINISH EXTERIOR CONCRETE STAIRS.

AA. PROVIDE A MINIMUM OF 8" BEARING ON EACH SIDE OF OPENING FOR ALL LINTELS, UNLESS INDICATED OTHERWISE.

BB. REINFORCING STEEL SHALL NOT PASS THROUGH WATERSTOPS.

CC. PROJECT DOCUMENTS ARE INTENDED TO BE COMPLEMENTARY. ITEMS INDICATED IN ONE PLACE OR ANOTHER AMONG THE DOCUMENTS SHALL BE INTENDED AS THOUGH SHOWN IN ALL PLACES.

DD. ANY SUPPORT REQUIRED FOR LOUVERS, GLAZING, ROOF DECKING, GRANITE OR PRECAST COMPONENTS, PLUMBING FIXTURES, MECHANICAL EQUIPMENT, CONDUITS, PIPING, ETC. NOT SHOWN SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL.

EE. PRECAST CONCRETE CONNECTIONS SHALL BE DESIGNED AND DETAILED BY THE MANUFACTURER SUCH THAT THEY EMULATE CAST-IN-PLACE CONSTRUCTION TO DEVELOP FIXED CONNECTIONS.

FF. IN ADDITION TO SUBMISSIONS AS REQUIRED BY THE SPECIFICATIONS, CONTRACTOR SHALL SUBMIT PLANS, DETAILS AND CALCULATIONS, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MARYLAND FOR ALL RAILING, HANDRAIL, GRATING, PRECAST OR PRE-FABRICATED ELEMENTS, GLAZING AND GRANITE FACADE INCLUDING THEIR CONNECTIONS.

11. EXCAVATION AND EARTHWORK:

A. REFERENCE GEOTECHNICAL REPORT FOR FOREST GLEN METRO STATION BY RK&K, INC. DATED XX FOR INFORMATION.

B. LOCATE ANY EXISTING UTILITY LINES OR APPURTENANCES AND ADVISE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES SHOWN IN PLANS PRIOR TO CONSTRUCTION. DO NOT DEMOLISH ANY EXISTING STRUCTURES WITHOUT WRITTEN AUTHORIZATION.

C. ALL EXCAVATIONS SHALL BE KEPT DRY. STANDING WATER SHALL NOT BE ALLOWED IN EXCAVATIONS.

12. WATERSTOP:

A. TERMINATE VERTICAL WATERSTOPS THREE INCHES BELOW TOP OF CONCRETE WALLS THAT ARE ABOVE FINISHED GRADE.

B. USE FACTORY-MADE CROSSES, TEES AND ELLS AT ALL CORNERS AND INTERSECTIONS.

C. INSTALL WATERSTOPS IN CONTINUOUS LENGTHS TO MINIMIZE FIELD SPLICES.

D. PROVIDE 2-INCH MINIMUM CLEARANCE BETWEEN WATERSTOPS AND REINFORCING STEEL AND OTHER EMBEDDED ITEMS.

E. SECURE WATERSTOPS IN POSITION WITH WIRE TIES TO ADJACENT REINFORCING STEEL ON BOTH SIDES, ALONG EACH EDGE AS SPECIFIED.

F. PROTECT EXPOSED WATERSTOP FROM DAMAGE.

G. PROVIDE 9" RIBBED PVC WATERSTOPS WITH CENTERBULB.

SPECIAL INSPECTION NOTES

SPECIAL INSPECTIONS, IN ACCORDANCE WITH IBC CHAPTER 17, ARE REQUIRED. THE OWNER SHALL ENGAGE A SPECIAL INSPECTIONS ENGINEER TO PERFORM THE SERVICES INDICATED. PROVIDE SPECIAL INSPECTIONS FOR THE FOLLOWING ITEMS PER SECTION 1705 OF THE 2021 IBC. THE APPROVED INDEPENDENT TESTING AGENCY'S INDIVIDUAL SPECIAL INSPECTOR SHALL DEMONSTRATE COMPETENCE FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THE SPECIAL INSPECTOR SHALL BRING NON-CONFORMING ITEMS TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR AND NOTE ALL SUCH ITEMS IN THE REPORTS. ANY UNRESOLVED ITEMS ABOUT TO BE COVERED BY THE WORK SHALL BE BROUGHT TO THE OWNER'S ATTENTION IMMEDIATELY. THE SPECIAL INSPECTOR SHALL FURNISH REPORTS, TEST AND INSPECTION DIRECTLY TO THE BUILDING OFFICIAL, ENGINEER OF RECORD AND THE OWNER'S AND CONTRACTOR'S CONSTRUCTION MANAGER. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTION AGENCY REGARDING INDIVIDUAL INSPECTIONS FOR ITEMS USED IN THE SCHEDULE AND NOTED IN THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.

1. PERIODIC SPECIAL INSPECTIONS

A. STEEL CONSTRUCTION - PER SECTION 1705.2 AND AS REQUIRED BY TABLE 1705.2.2.
B. CONCRETE CONSTRUCTION - PER SECTION 1705.3 AND AS REQUIRED BY TABLE 1705.3.
C. SOILS - PER SECTION 1705.6 AND AS REQUIRED BY TABLE 1705.6.
D. SPRAYED FIRE-RESISTANT MATERIALS - PER SECTION 1705.13.

2. CONTINUOUS SPECIAL INSPECTIONS

A. STEEL CONSTRUCTION - PER SECTION 1705.2 AND AS REQUIRED BY TABLE 1705.2.2.
B. CONCRETE CONSTRUCTION - PER SECTION 1705.3 AND AS REQUIRED BY TABLE 1705.3.
C. SOILS - PER SECTION 1705.6 AND AS REQUIRED BY TABLE 1705.6.

3. INSPECTION OF FABRICATORS: SHOP FABRICATED AND PREFABRICATED STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES SHALL BE INSPECTED AND VERIFIED PER SECTION 1704.2.

ABBREVIATIONS.

L	ANGLE
APPROX.	APPROXIMATE
@	AT
BOT.	BOTTOM
BRG.	BEARING
℄	CENTERLINE
C	CHANNEL
C.I.P.	CAST-IN-PLACE
CL.	CLEAR, CLEARANCE
CMU	CONCRETE MASONRY UNIT
CONST.	CONSTRUCTION
CONTR.	CONTRACTION
Ø	DIAMETER
D.O.	DOOR OPENING
DWG.	DRAWING
EA.	EACH
EF	EACH FACE
EW	EACH WAY
EL.	ELEVATION
EQ.	EQUAL
EXP.	EXPANSION
EXT	EXTERIOR
FIN.	FINISHED
FT.	FEET
FTG.	FOOTING
GALV.	GALVANIZED
I.B.	INBOUND
I.F.	INSIDE FACE
INT.	INTERIOR
JT.	JOINT
K.O.	KNOCK-OUT
LG.	LONG
LBS.	POUNDS
MAX.	MAXIMUM
MEZZ.	MEZZANINE
MIN.	MINIMUM
NO.	NUMBER
#	NUMBER (REINFORCING)
N.T.S.	NOT TO SCALE
O.B.	OUTBOUND
O.F.	OUTSIDE FACE
OPNG.	OPENING
PL	PLATE
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
R	RADIUS
SCH.	SCHEDULE
STA.	STATION
STRUCT.	STRUCTURAL
SYMM.	SYMMETRICAL
THK.	THICK
T/	TOP OF
T/R	TOP OF RAIL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W	WIDE FLANGE
W.P.	WORKING POINT

DESIGNED Designer DATE
DRAWN Author DATE
CHECKED Checker DATE
APPROVED Approver DATE

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

GENERAL NOTES CONT, ABBREVIATIONS, AND LEGEND

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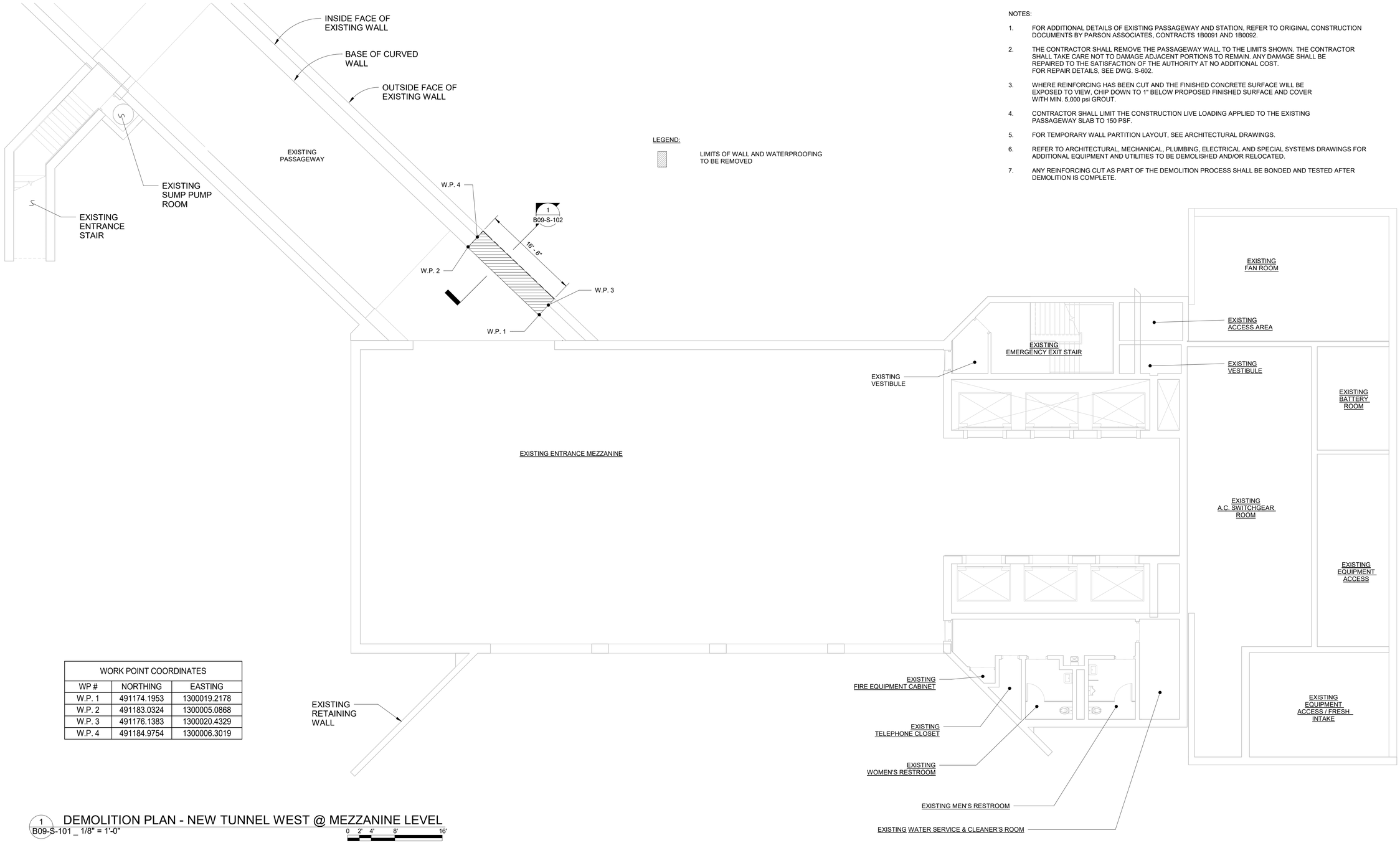

NOTES:

1. FOR ADDITIONAL DETAILS OF EXISTING PASSAGEWAY AND STATION, REFER TO ORIGINAL CONSTRUCTION DOCUMENTS BY PARSON ASSOCIATES, CONTRACTS 1B0091 AND 1B0092.
2. THE CONTRACTOR SHALL REMOVE THE PASSAGEWAY WALL TO THE LIMITS SHOWN. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ADJACENT PORTIONS TO REMAIN. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE AUTHORITY AT NO ADDITIONAL COST. FOR REPAIR DETAILS, SEE DWG. S-602.
3. WHERE REINFORCING HAS BEEN CUT AND THE FINISHED CONCRETE SURFACE WILL BE EXPOSED TO VIEW, CHIP DOWN TO 1" BELOW PROPOSED FINISHED SURFACE AND COVER WITH MIN. 5,000 psi GROUT.
4. CONTRACTOR SHALL LIMIT THE CONSTRUCTION LIVE LOADING APPLIED TO THE EXISTING PASSAGEWAY SLAB TO 150 PSF.
5. FOR TEMPORARY WALL PARTITION LAYOUT, SEE ARCHITECTURAL DRAWINGS.
6. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND SPECIAL SYSTEMS DRAWINGS FOR ADDITIONAL EQUIPMENT AND UTILITIES TO BE DEMOLISHED AND/OR RELOCATED.
7. ANY REINFORCING CUT AS PART OF THE DEMOLITION PROCESS SHALL BE BONDED AND TESTED AFTER DEMOLITION IS COMPLETE.

WORK POINT COORDINATES		
WP #	NORTHING	EASTING
W.P. 1	491174.1953	1300019.2178
W.P. 2	491183.0324	1300005.0868
W.P. 3	491176.1383	1300020.4329
W.P. 4	491184.9754	1300006.3019

1 B09-S-101 DEMOLITION PLAN - NEW TUNNEL WEST @ MEZZANINE LEVEL

1/8" = 1'-0"

0 2' 4' 8' 16'

DESIGNED	Designer	DATE
DRAWN	Author	DATE
CHECKED	Checker	DATE
APPROVED	Approver	DATE

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ENGINEERING SUPPORT SERVICES

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B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

DEMOLITION PLAN AT MEZZANINE LEVEL WEST

SCALE	DRAWING NO.	SHEET NO.
AS NOTED	B09-S-101	26 OF 183

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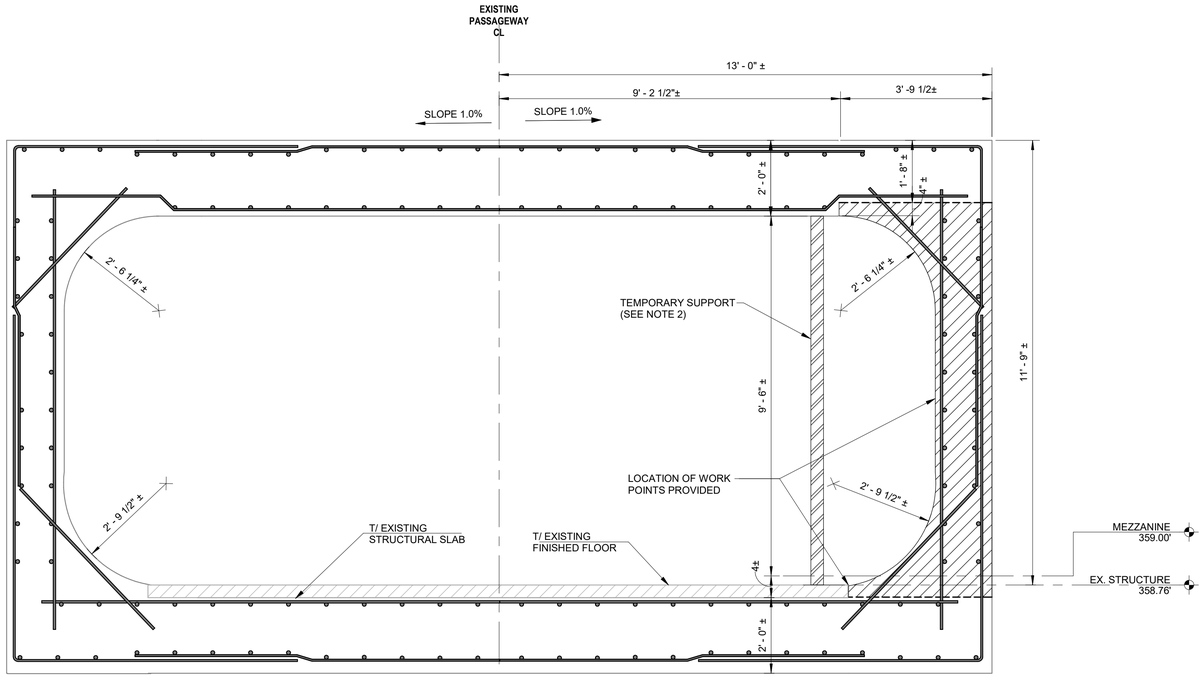

1 EXISTING PASSAGEWAY WALL DEMOLITION
B09-S-101 B09-S-102 _ 1/2" = 1'-0"

LEGEND:

LIMITS OF WALL AND WATERPROOFING TO BE REMOVED

NOTES:

1. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING WATERPROOFING SYSTEM ON ROOF OR FLOOR SLABS TO REMAIN.
2. TEMPORARY SUPPORT FOR THE ROOF SLAB SHALL BE DESIGNED AND INSTALLED BY THE CONTRACTOR. TEMPORARY SUPPORT SHALL BE POSITIONED SUCH THAT IT DOES NOT PREVENT INSTALLATION OF NEW SUPPORTING ELEMENTS. CALCULATIONS AND DETAILS OF TEMPORARY SUPPORT SYSTEM SHALL BE SUBMITTED TO THE AUTHORITY AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION.

DESIGNED Designer DATE
DRAWN Author DATE
CHECKED Checker DATE
APPROVED Approver DATE

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

STRUCTURAL DEMOLITION SECTION AND DETAILS

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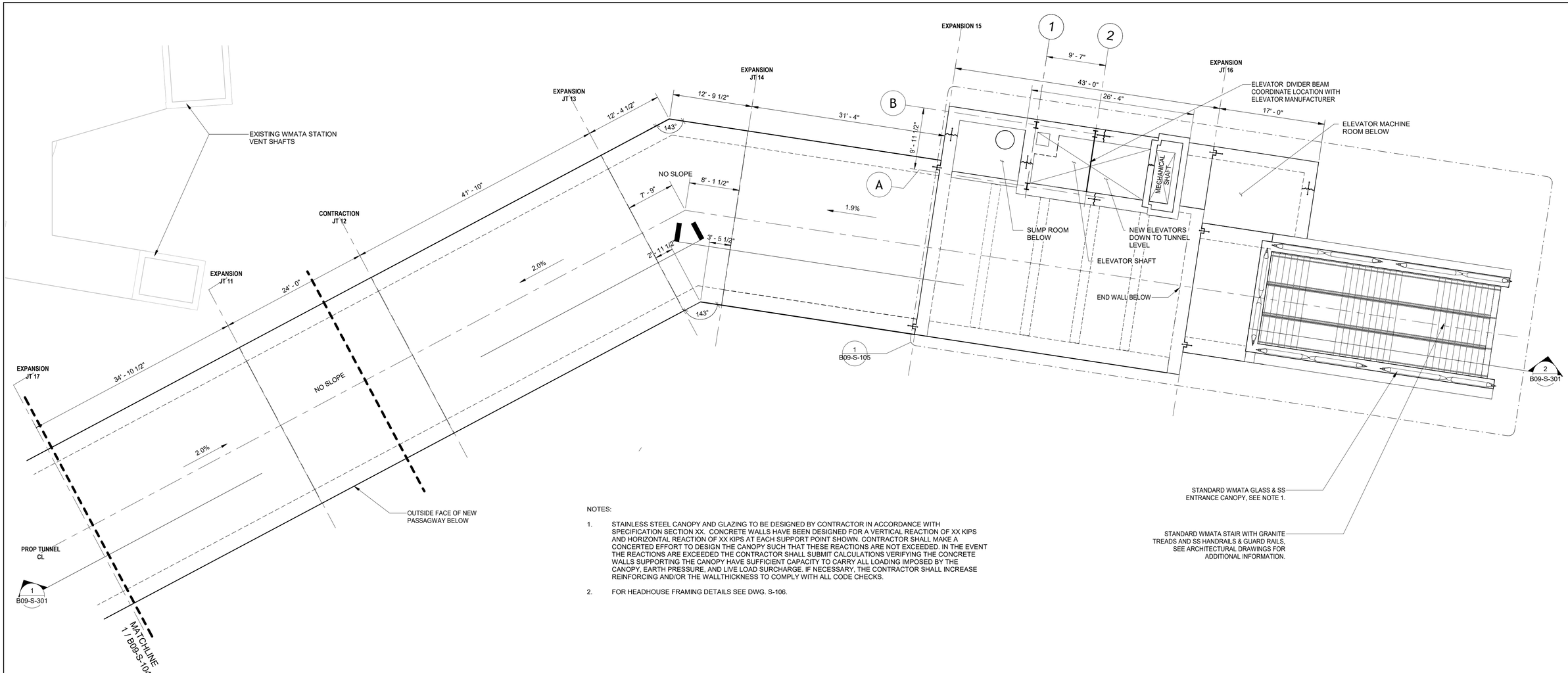

NOTES:

1. STAINLESS STEEL CANOPY AND GLAZING TO BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH SPECIFICATION SECTION XX. CONCRETE WALLS HAVE BEEN DESIGNED FOR A VERTICAL REACTION OF XX KIPS AND HORIZONTAL REACTION OF XX KIPS AT EACH SUPPORT POINT SHOWN. CONTRACTOR SHALL MAKE A CONCERTED EFFORT TO DESIGN THE CANOPY SUCH THAT THESE REACTIONS ARE NOT EXCEEDED. IN THE EVENT THE REACTIONS ARE EXCEEDED THE CONTRACTOR SHALL SUBMIT CALCULATIONS VERIFYING THE CONCRETE WALLS SUPPORTING THE CANOPY HAVE SUFFICIENT CAPACITY TO CARRY ALL LOADING IMPOSED BY THE CANOPY, EARTH PRESSURE, AND LIVE LOAD SURCHARGE. IF NECESSARY, THE CONTRACTOR SHALL INCREASE REINFORCING AND/OR THE WALLTHICKNESS TO COMPLY WITH ALL CODE CHECKS.
2. FOR HEADHOUSE FRAMING DETAILS SEE DWG. S-106.

N

1 B09-S-103 _ 1/8" = 1'-0"

PLAN AT NEW ELEVATOR HEADHOUSE AND CANOPY

0 2' 4' 8' 16'

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

PLAN AT STREET LEVEL PLAZA EAST

SCALE	DRAWING NO.	SHEET NO.
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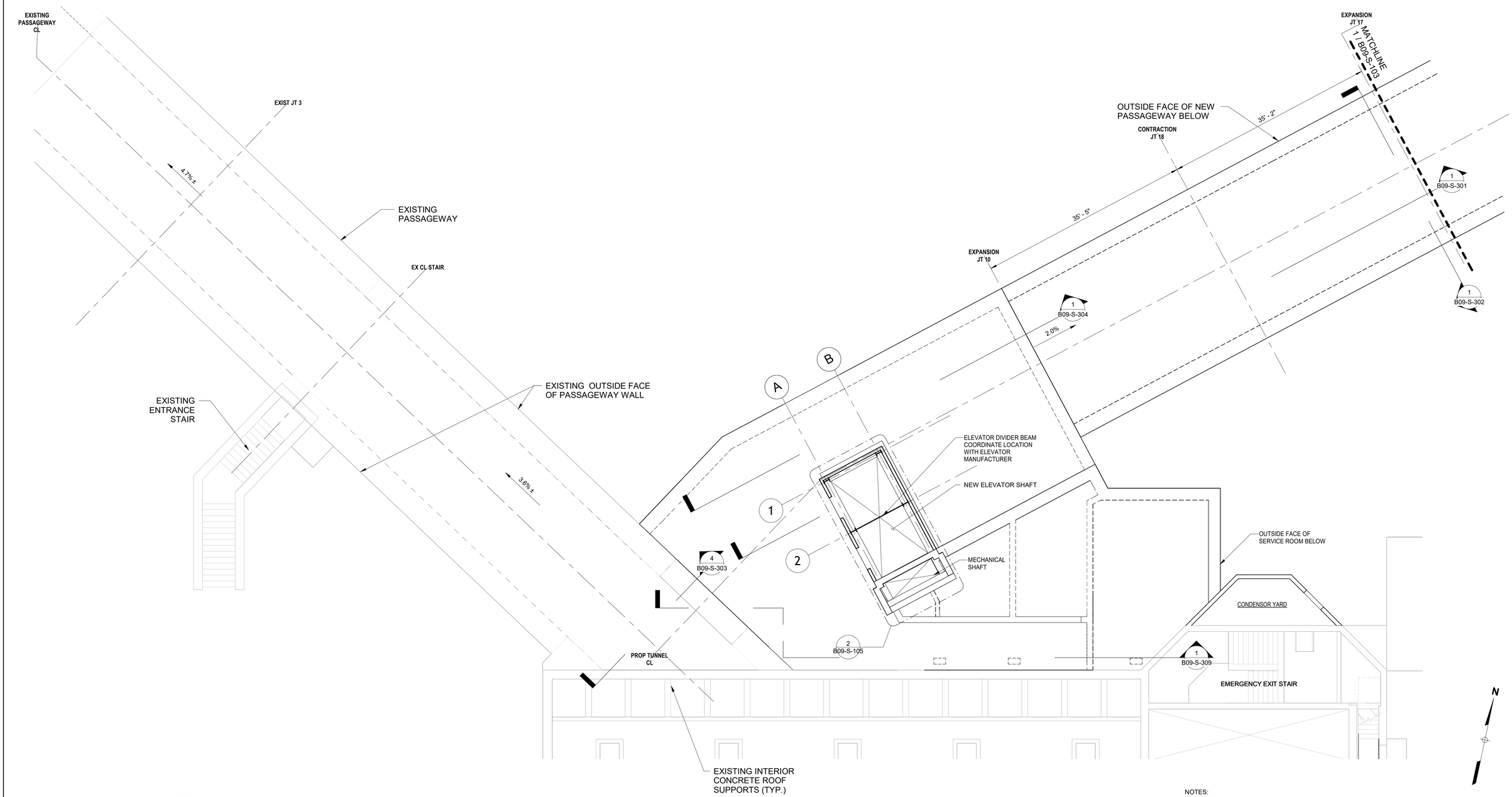

1 B09-S-104 FLOOR PLAN - STREET LEVEL PLAZA WEST
1/8" = 1'-0"
0 2' 4' 8' 16'

NOTES:

1. FOR WALLS, RAMPS, STAIRS, SIDEWALKS AND OTHER PLAZA ELEMENTS, SEE ARCHITECTURAL DRAWINGS.

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B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

PLAN AT STREET LEVEL PLAZA WEST

SCALE	DRAWING NO.	SHEET NO.
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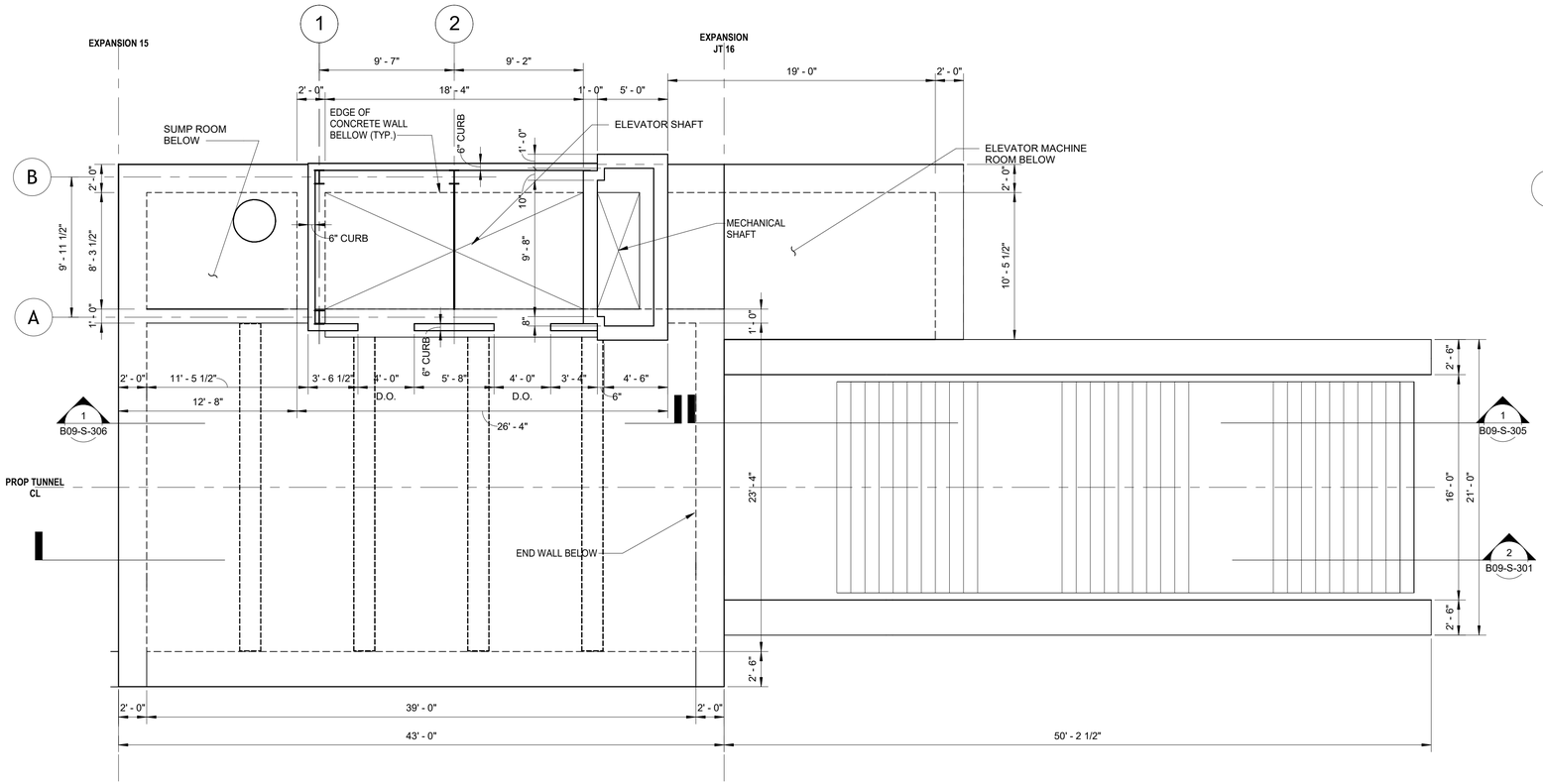
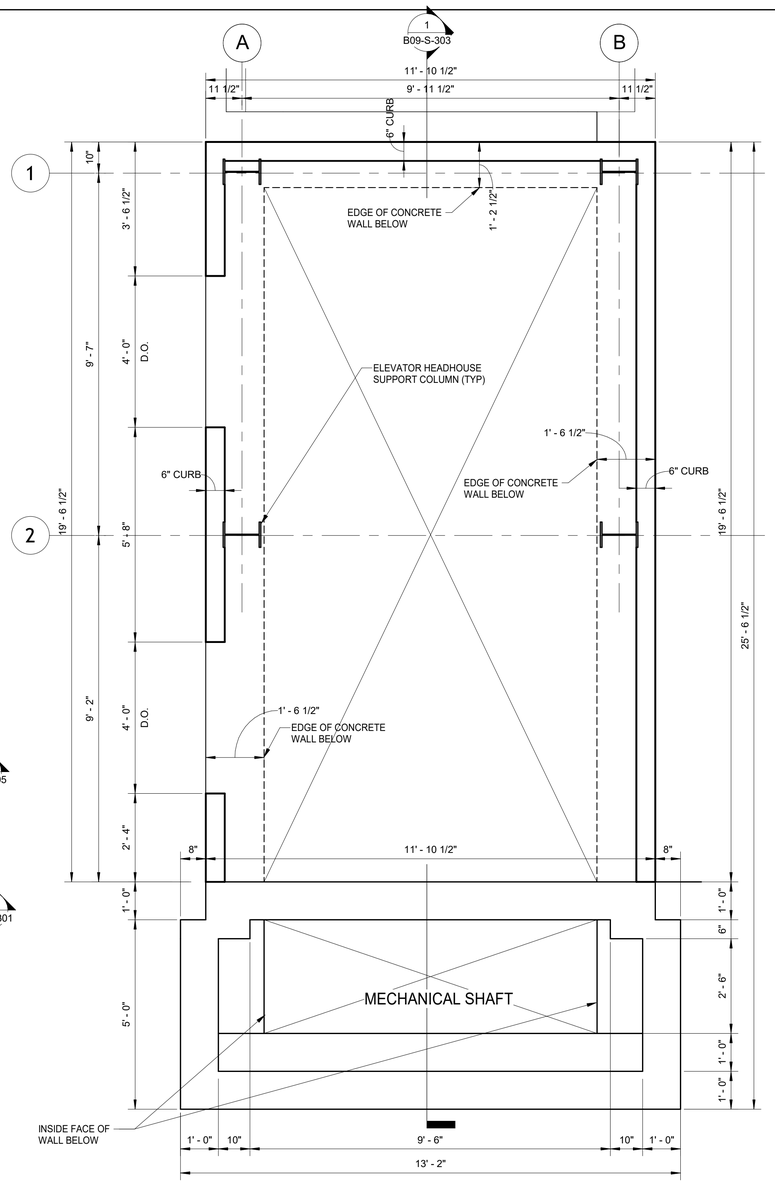


1 ENLARGED PLAN AT NEW EAST ELEVATOR HEAD HOUSE AND CANOPY
B09-S-103 B09-S-105 _ 3/16" = 1'-0"



2 ENLARGED PLAN AT NEW WEST ELEVATOR HEAD HOUSE
B09-S-104 B09-S-105 _ 1/2" = 1'-0"

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

ELEVATOR PLAN AT STREET LEVEL PLAZA EAST/WEST

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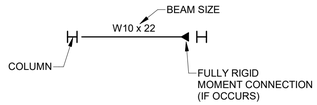
NOTES:

1. STRUCTURAL STEEL FRAMING KEY:



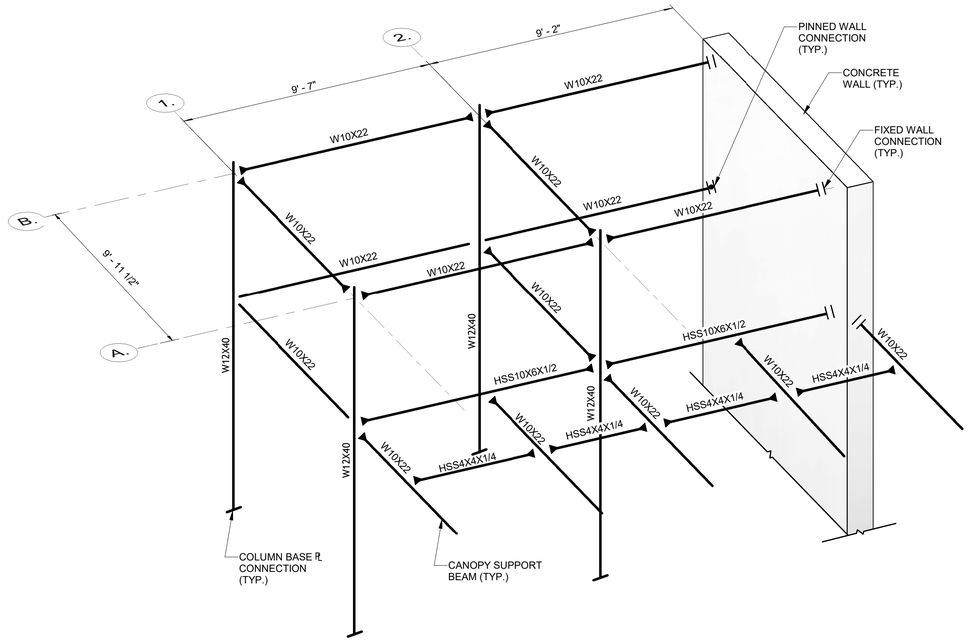
PINNED WALL CONNECTION

FIXED WALL CONNECTION

2. ALL BEAMS ARE SPACED EQUALLY BETWEEN COLUMN LINES, UNLESS NOTED OTHERWISE.

3. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

4. STRUCTURAL STEEL FRAMING CONNECTIONS SHALL BE DESIGNED BY THE CONTRACTOR FOR THE UNFACTORED LOADS IN THE "CONNECTION DESIGN FORCES" TABLE ON THIS SHEET. CALCULATIONS AND DETAILS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MARYLAND AND SUBMITTED TO THE AUTHORITY AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.



1 B09-S-106 ELEVATOR HOUSE ISOMETRIC FRAMING PLAN
NOT TO SCALE

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

ELEVATOR HEADHOUSE FRAMING PLAN AND DETAILS

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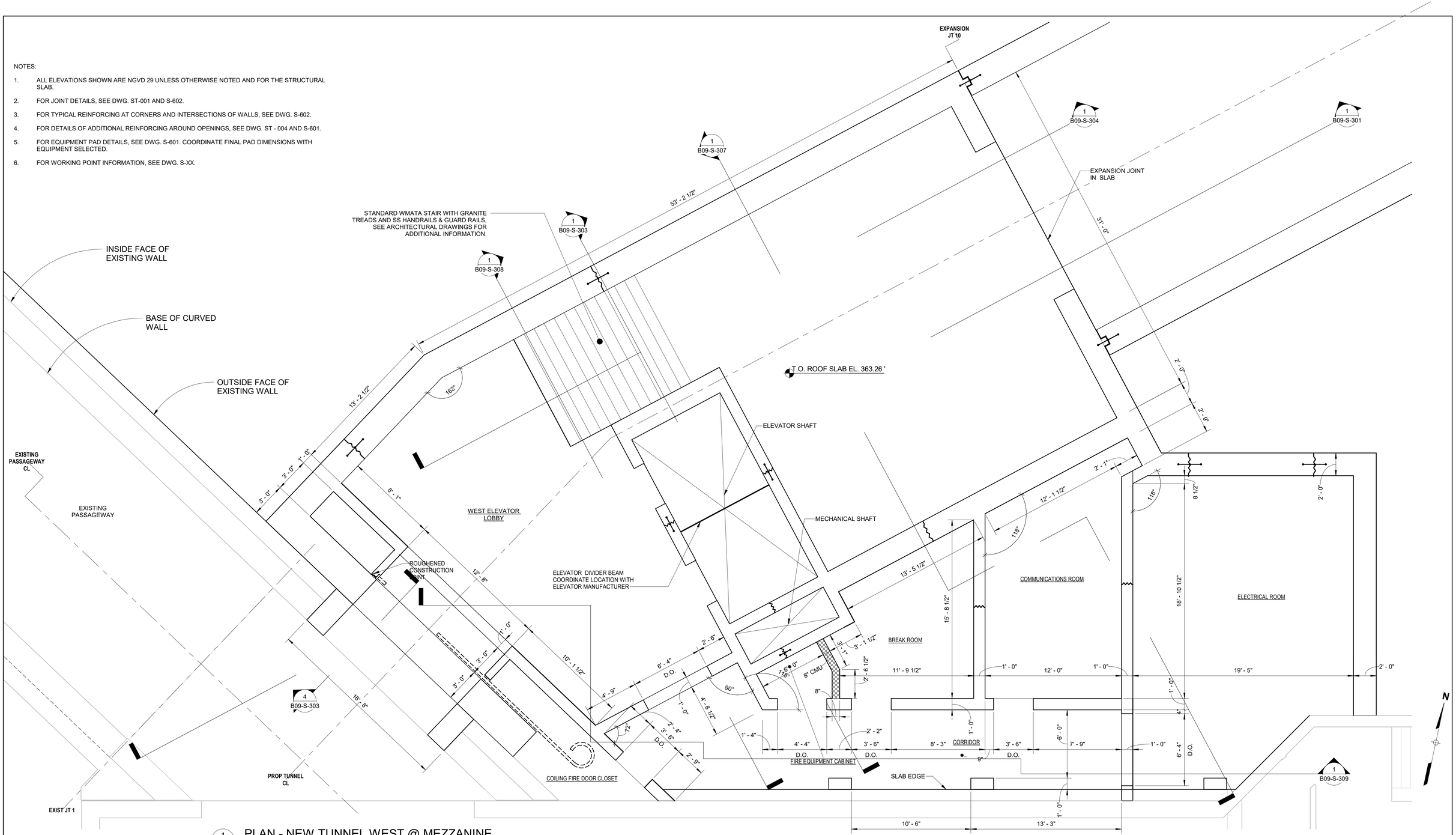
NOTES:

1. ALL ELEVATIONS SHOWN ARE NGVD 29 UNLESS OTHERWISE NOTED AND FOR THE STRUCTURAL SLAB.
2. FOR JOINT DETAILS, SEE DWG. ST-001 AND S-602.
3. FOR TYPICAL REINFORCING AT CORNERS AND INTERSECTIONS OF WALLS, SEE DWG. S-602.
4. FOR DETAILS OF ADDITIONAL REINFORCING AROUND OPENINGS, SEE DWG. ST - 004 AND S-601.
5. FOR EQUIPMENT PAD DETAILS, SEE DWG. S-601. COORDINATE FINAL PAD DIMENSIONS WITH EQUIPMENT SELECTED.
6. FOR WORKING POINT INFORMATION, SEE DWG. S-XX.



1 B09-S-107 PLAN - NEW TUNNEL WEST @ MEZZANINE
_ 1/4" = 1'-0"
0 2' 4' 8' 16'

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B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

PLAN AT MEZZANINE LEVEL WEST

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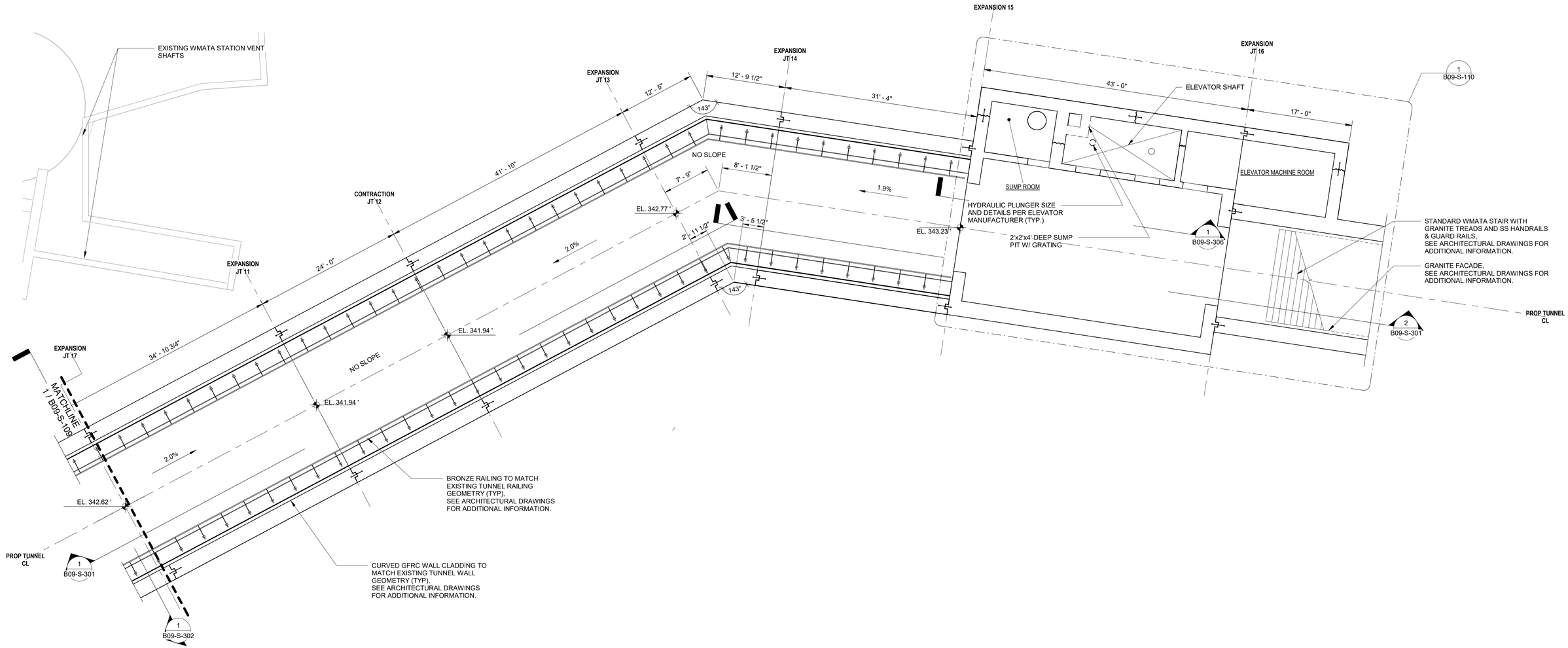

NOTES:

1. ALL ELEVATIONS SHOWN ARE NGVD 29 UNLESS OTHERWISE NOTED AND FOR THE STRUCTURAL SLAB.
2. FOR JOINT DETAILS, SEE DWG. ST-001 AND S-602.
3. FOR TYPICAL REINFORCING AT CORNERS AND INTERSECTIONS OF WALLS, SEE DWG. S-602.
4. FOR DETAILS OF ADDITIONAL REINFORCING AROUND OPENINGS, SEE DWG. ST - 004 AND S-601.
5. FOR EQUIPMENT PAD DETAILS, SEE DWG. S-601. COORDINATE FINAL PAD DIMENSIONS WITH EQUIPMENT SELECTED.
6. FOR WORKING POINT INFORMATION, SEE DWG. S-XX.

1 B09-S-108 _ 1/8" = 1'-0"

PLAN - STREET LEVEL PLAZA EAST

0 2' 4' 8' 16'

N

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

PLAN AT TUNNEL LEVEL EAST

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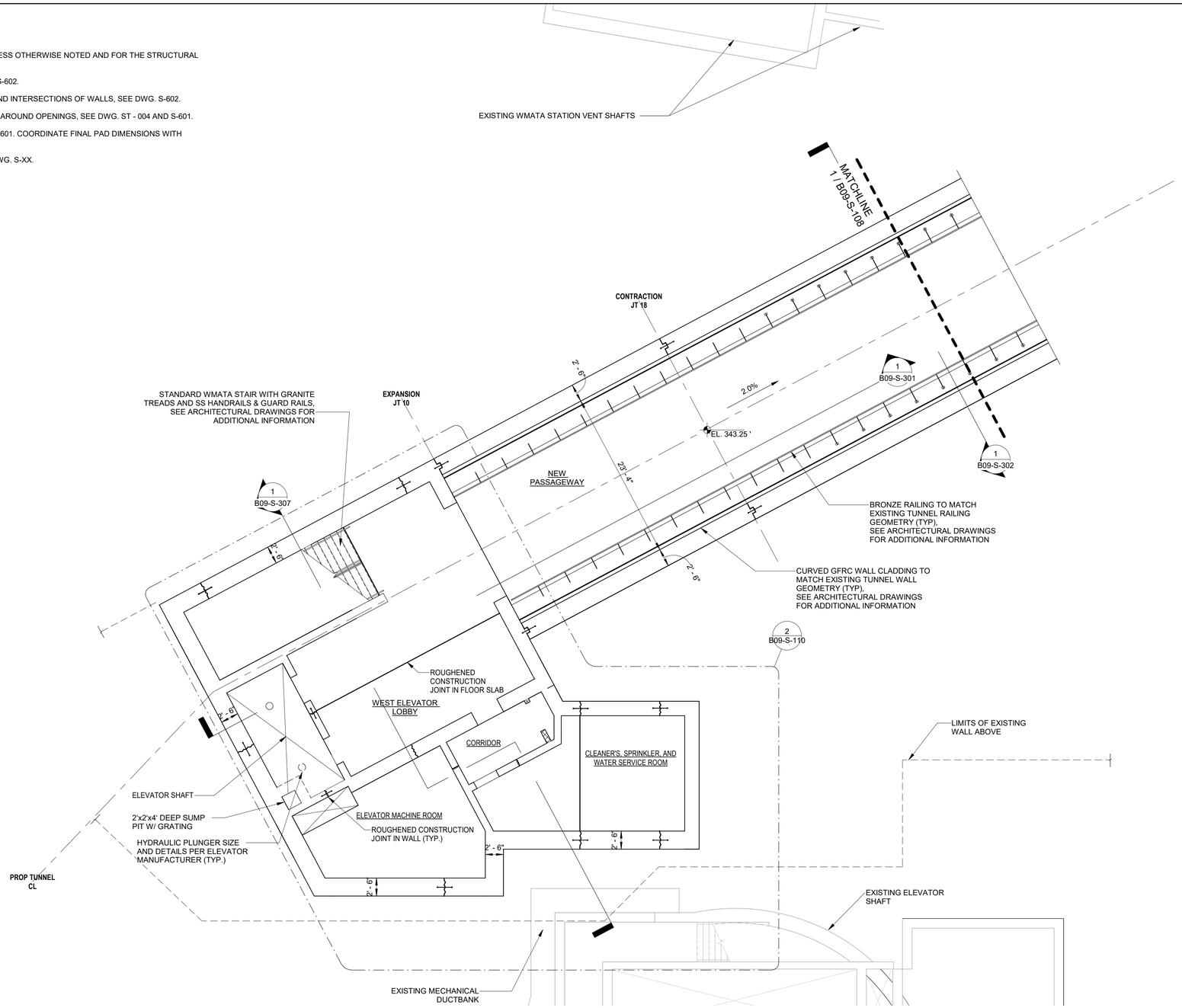
NOTES:

1. ALL ELEVATIONS SHOWN ARE NGVD 29 UNLESS OTHERWISE NOTED AND FOR THE STRUCTURAL SLAB.
2. FOR JOINT DETAILS, SEE DWG. ST-001 AND S-602.
3. FOR TYPICAL REINFORCING AT CORNERS AND INTERSECTIONS OF WALLS, SEE DWG. S-602.
4. FOR DETAILS OF ADDITIONAL REINFORCING AROUND OPENINGS, SEE DWG. ST - 004 AND S-601.
5. FOR EQUIPMENT PAD DETAILS, SEE DWG. S-601. COORDINATE FINAL PAD DIMENSIONS WITH EQUIPMENT SELECTED.
6. FOR WORKING POINT INFORMATION, SEE DWG. S-XX.



1 PLAN - NEW TUNNEL WEST @ TUNNEL LEVEL
B09-S-301 B09-S-109 _ 1/8" = 1'-0"
0 2' 4' 8' 16'

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B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

PLAN AT TUNNEL LEVEL WEST

SCALE	DRAWING NO.	SHEET NO.
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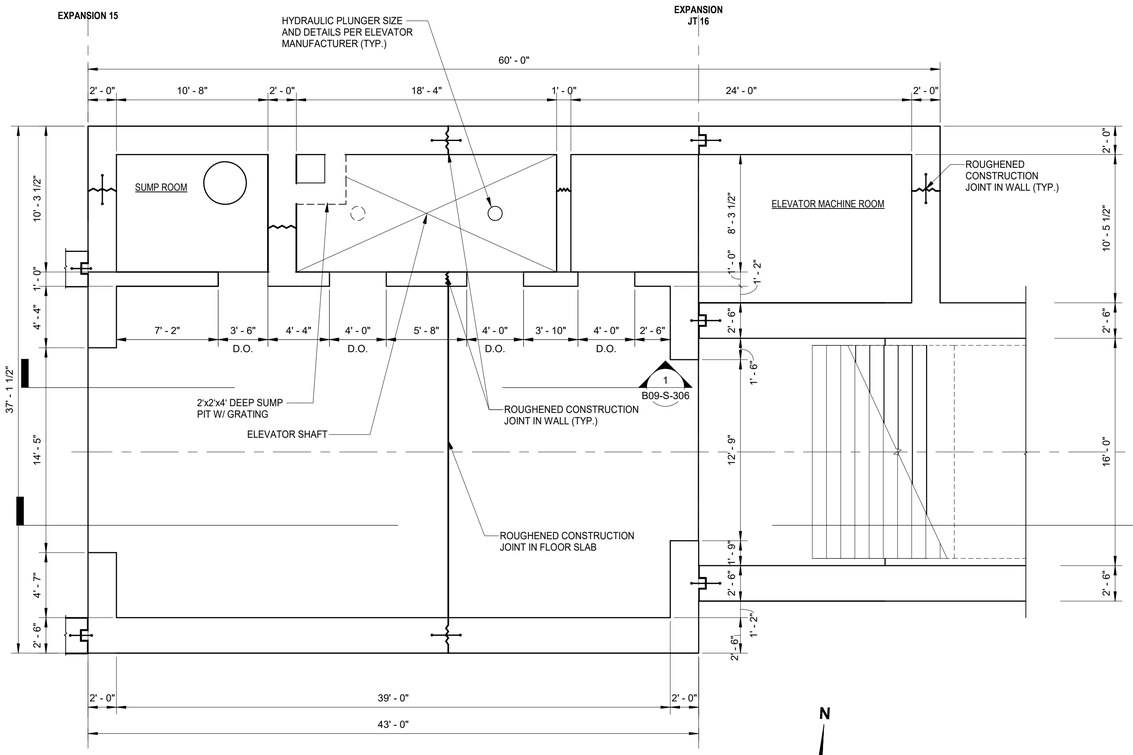
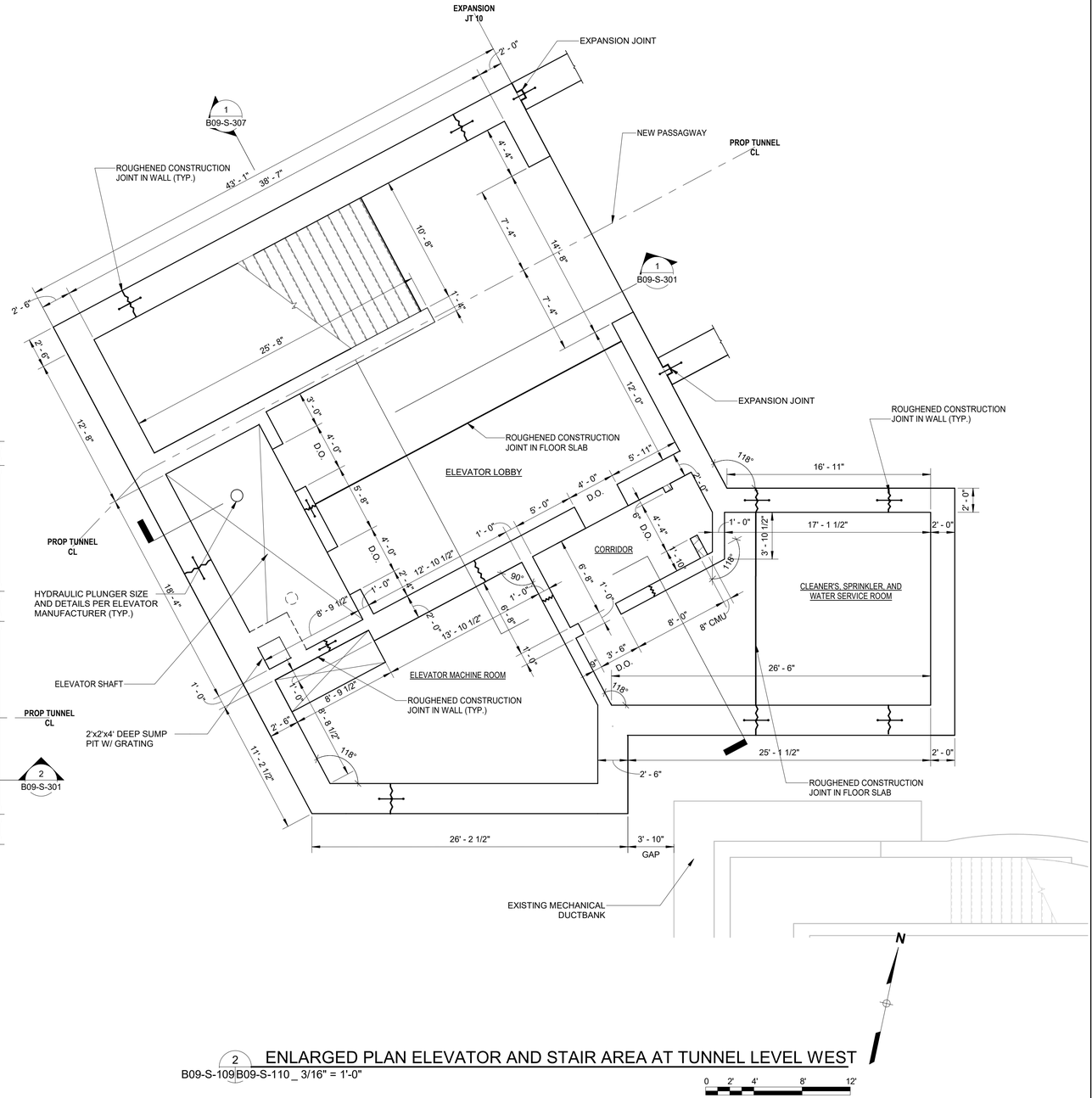


1 ENLARGED PLAN ELEVATOR AND STAIR AREA AT TUNNEL LEVEL EAST
B09-S-110 _ 3/16" = 1'-0"



2 ENLARGED PLAN ELEVATOR AND STAIR AREA AT TUNNEL LEVEL WEST
B09-S-109 B09-S-110 _ 3/16" = 1'-0"

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B09 PEDESTRIAN PASSAGEWAY
FOREST GLEN STATION

ELEVATOR PLAN AT STREET LEVEL TUNNEL EAST/WEST

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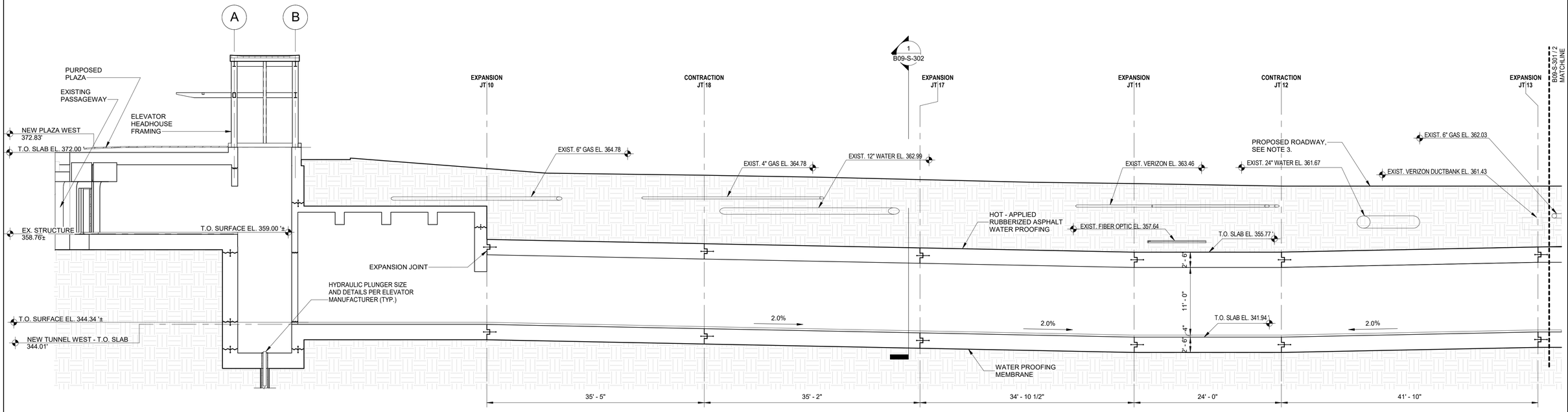
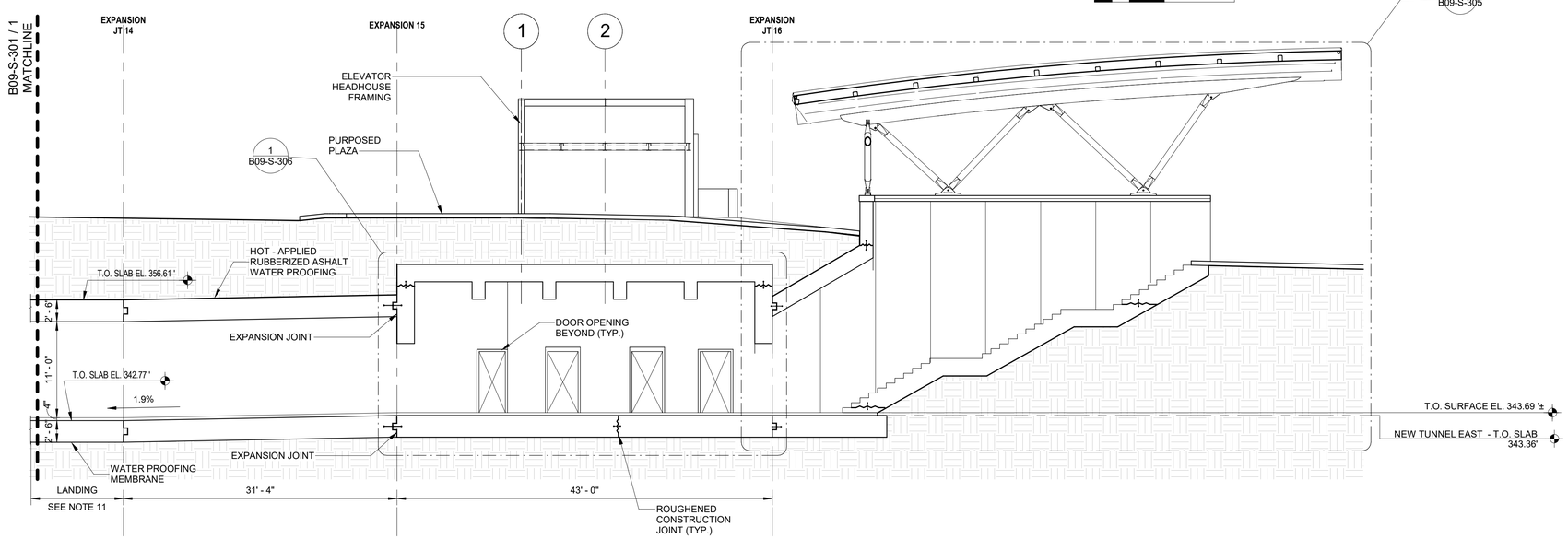


1 SECTION THRU TUNNEL
B09-S-103 B09-S-301 _ 1/8" = 1'-0"
0 2' 4' 8' 16'



2 SECTION THRU PASSAGEWAY ENTRANCE
B09-S-103 B09-S-301 _ 1/8" = 1'-0"
0 2' 4' 8' 16'

NOTES:

1. FOR ADDITIONAL FLOOR AND STAIR DETAILS, SEE ARCHITECTURAL DRAWINGS.
2. FOR JOINT DETAILS, SEE DWG, NO. S-60X
3. FOR ROADWAY PAVEMENT AND PLAZA DETAILS, SEE CIVIL DRAWINGS.
4. FOR ADDITIONAL REINFORING AROUND OPENINGS SEE DETAILS ON DWG. S-XXX
5. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
6. FOR SLOPE AND FINISH DETAILS FOR NEW PASSAGEWAY, SEE ARCHITECTURAL DRAWINGS.
7. FOR ELEVATOR HEADHOUSE FRAMING DETAILS, SEE DWG, S-106
8. CURVED GFRC PANELS, FALSE CEILING, RAILINGS AND FINISHED FLOOR NOT SHOWN FOR CLARITY. FOR DETAILS, SEE ARCHITECTURAL DRAWINGS.
9. FOR LIGHTING DETAILS, SEE ELECTRICAL DRAWINGS.
10. FOR REINFORCING DETAILS REFER TO SECTIONS THAT FOLOW.
11. LANDING DIMENSION VARIES.

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B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

SECTIONS

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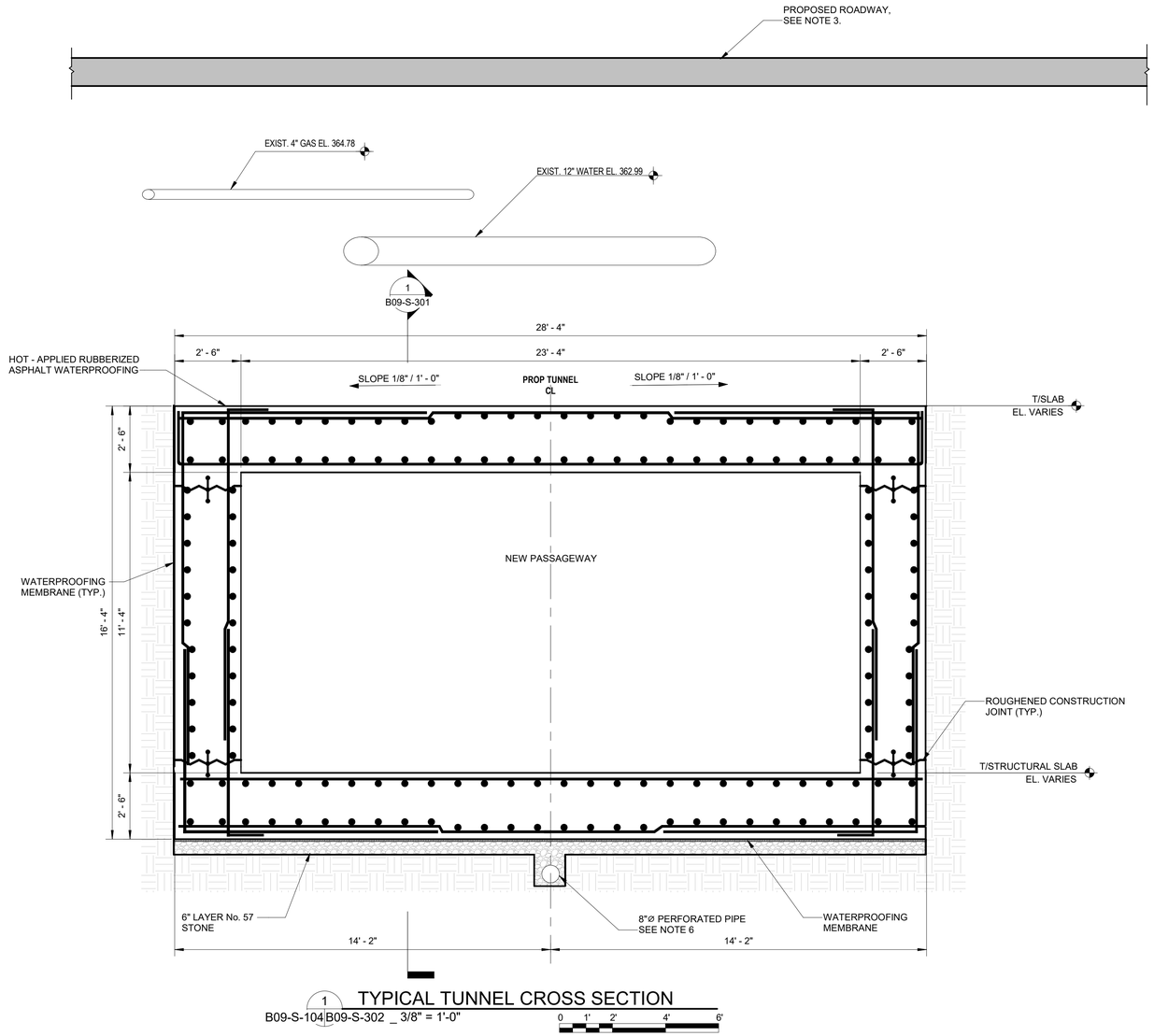

1 TYPICAL TUNNEL CROSS SECTION
B09-S-104 B09-S-302 _ 3/8" = 1'-0"
0 1' 2' 4' 6'

NOTES:

1. FOR LIGHTING DETAILS, SEE ELECTRICAL DRAWINGS.
2. FOR JOINT DETAILS, SEE DWG, NO. S-60X.
3. FOR ROADWAY PAVEMENT AND PLAZA DETAILS, SEE CIVIL DRAWINGS.
4. FOR ADDITIONAL REINFORING AROUND OPENINGS SEE DETAILS ON DWG. S-60X.
5. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
6. FOR ADDITIONAL UNDERSLAB DRAINAGE SYSTEM INFORMATION, SEE PLUMBING DRAWINGS.
7. FOR ADDITIONAL FLOOR, CURBED WALL, RAILING AND CEILING DETAILS, SEE ARCHITECTURAL DRAWING.

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FOREST GLEN STATION

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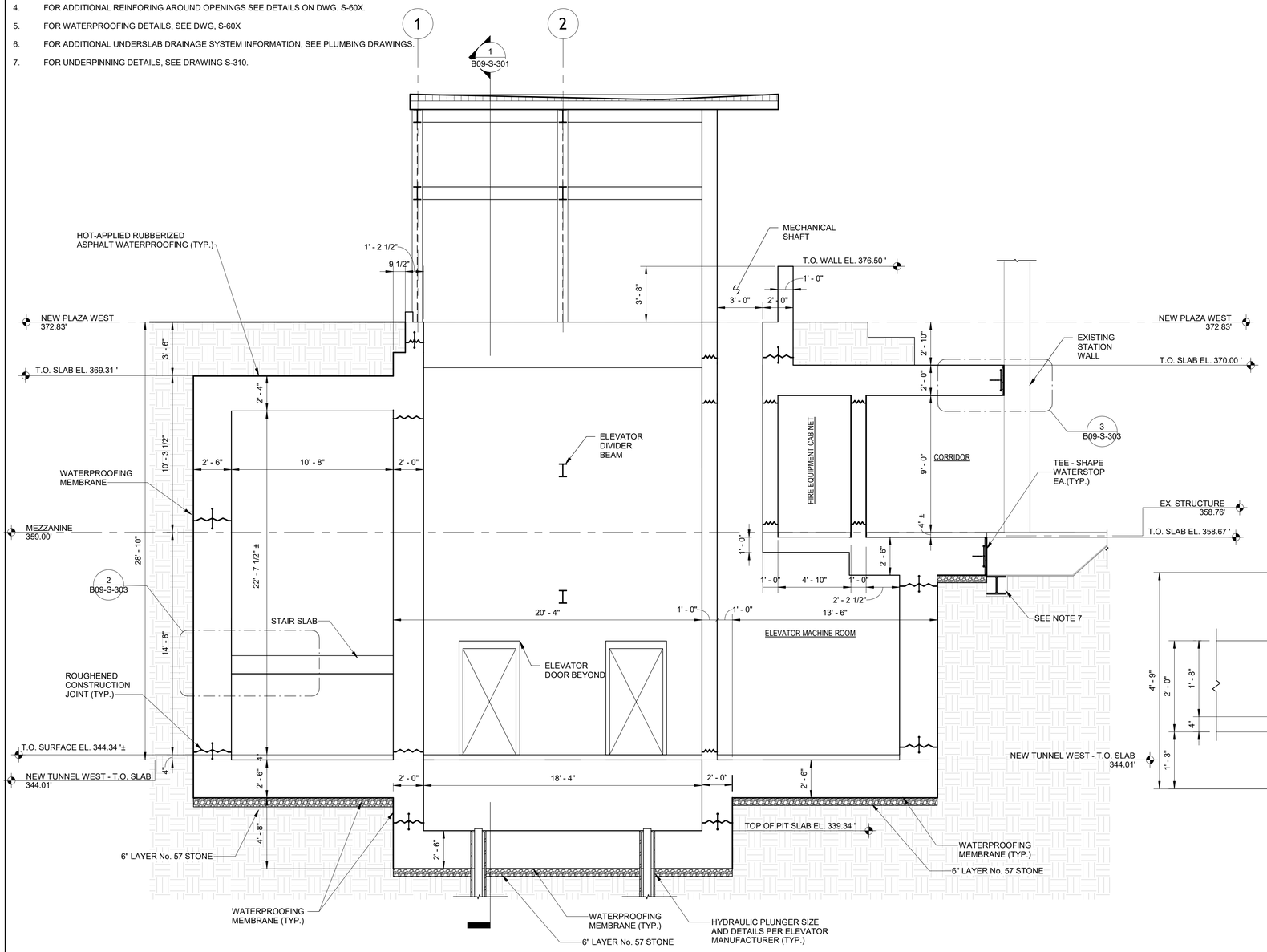
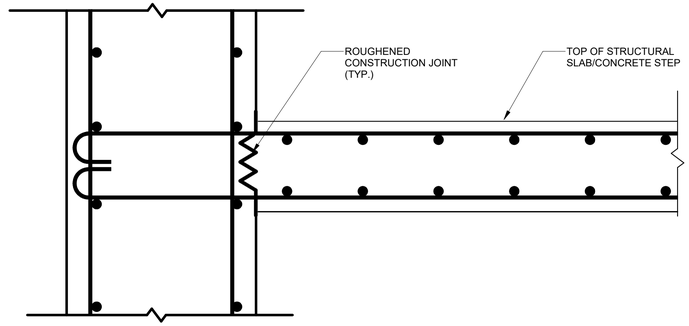
NOTES:

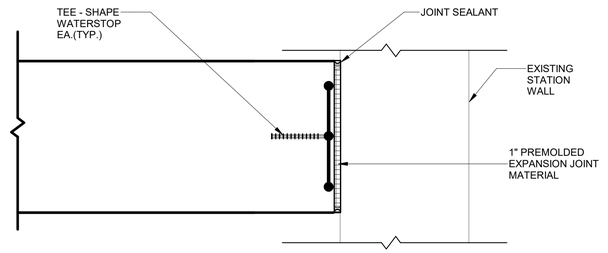
1. FOR ELEVATOR HEADHOUSE FRAMING DETAILS, SEE DWG, S-106
2. FOR LIGHTING DETAILS, SEE ELECTRICAL DRAWINGS.
3. FOR JOINT DETAILS, SEE DWG, NO. S-60X.
4. FOR ADDITIONAL REINFORING AROUND OPENINGS SEE DETAILS ON DWG. S-60X.
5. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
6. FOR ADDITIONAL UNDERSLAB DRAINAGE SYSTEM INFORMATION, SEE PLUMBING DRAWINGS.
7. FOR UNDERPINNING DETAILS, SEE DRAWING S-310.



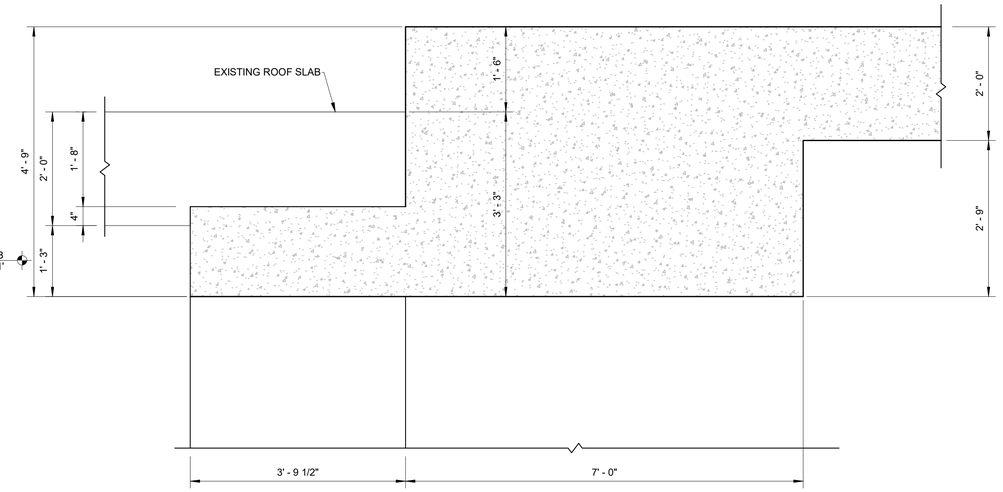
1 CROSS SECTION THRU WEST PASSAGEWAY ELEVATOR
B09-S-105 B09-S-303 _ 1/4" = 1'-0"
0 1' 2' 4' 8'



2 DETAIL AT STAIR SLAB WALL JOINT
B09-S-303 _ 1" = 1'-0"
0 6" 1' 2' 4'



3 DETAIL AT CEILING SLAB WALL JOINT
B09-S-303 _ 1" = 1'-0"
0 3" 6" 1' 2'



4 ENLARGED SECTION THRU EXISTING TUNNEL TO NEW PASSAGWAY
B09-S-104 B09-S-303 _ 3/4" = 1'-0"
0 6" 1' 2' 4'

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APPROVED	Approver		DATE

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B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

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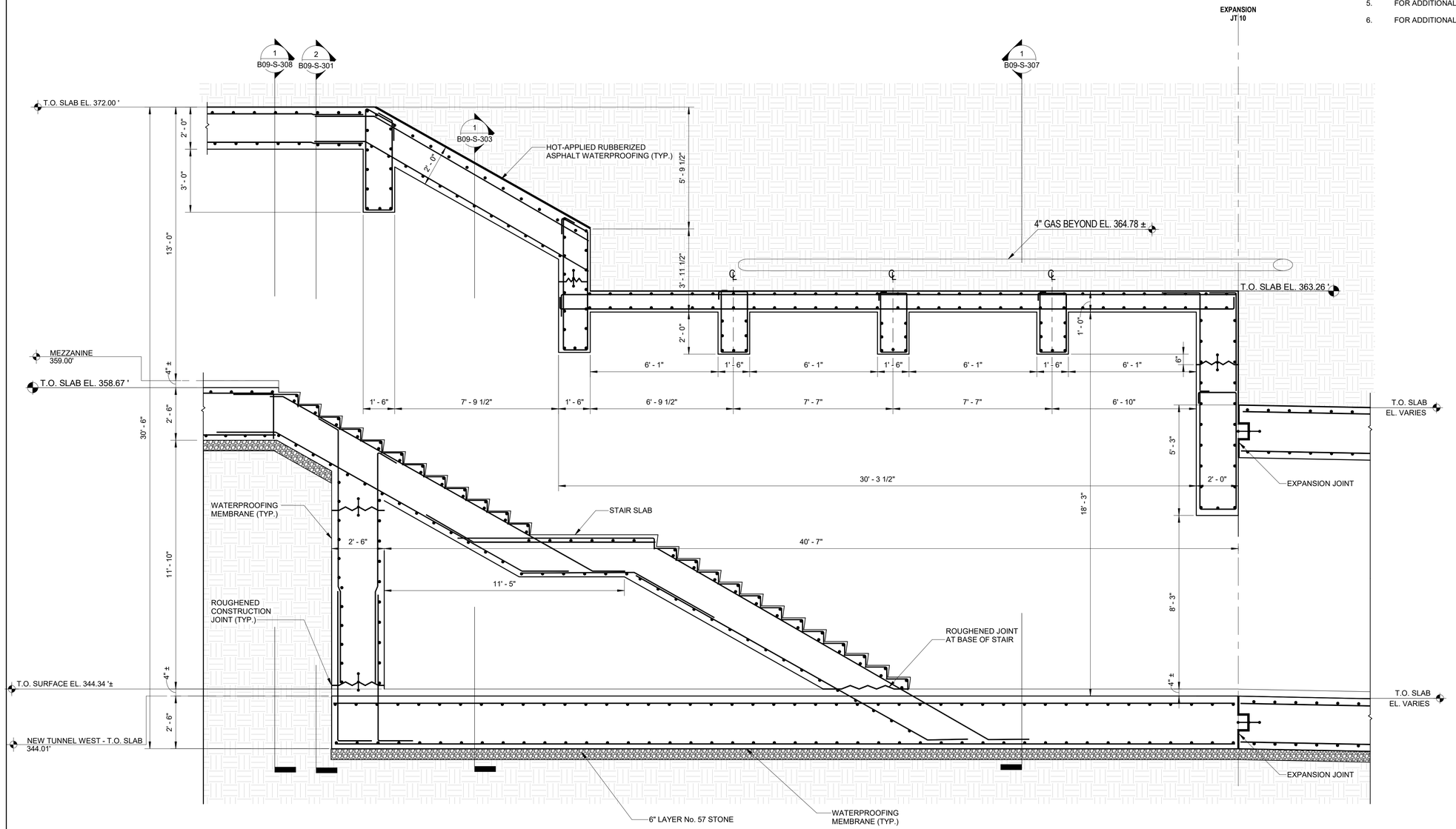
NOTES:

1. FOR LIGHTING DETAILS, SEE ELECTRICAL DRAWINGS.
2. FOR JOINT DETAILS, SEE DWG, NO. S-60X.
3. FOR ADDITIONAL REINFORING AROUND OPENINGS SEE DETAILS ON DWG. S-60X.
4. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
5. FOR ADDITIONAL UNDERSLAB DRAINAGE SYSTEM INFORMATION, SEE PLUMBING DRAWINGS.
6. FOR ADDITIONAL FLOOR, STAIR AND RAILING DETAILS, SEE ARCHITECTURAL DRAWINGS.



1 B09-S-104 1 B09-S-304 SECTION THRU WEST PASSAGEWAY STAIR WALL SIDE
_ 3/8" = 1'-0"
0 1' 2' 4' 6'

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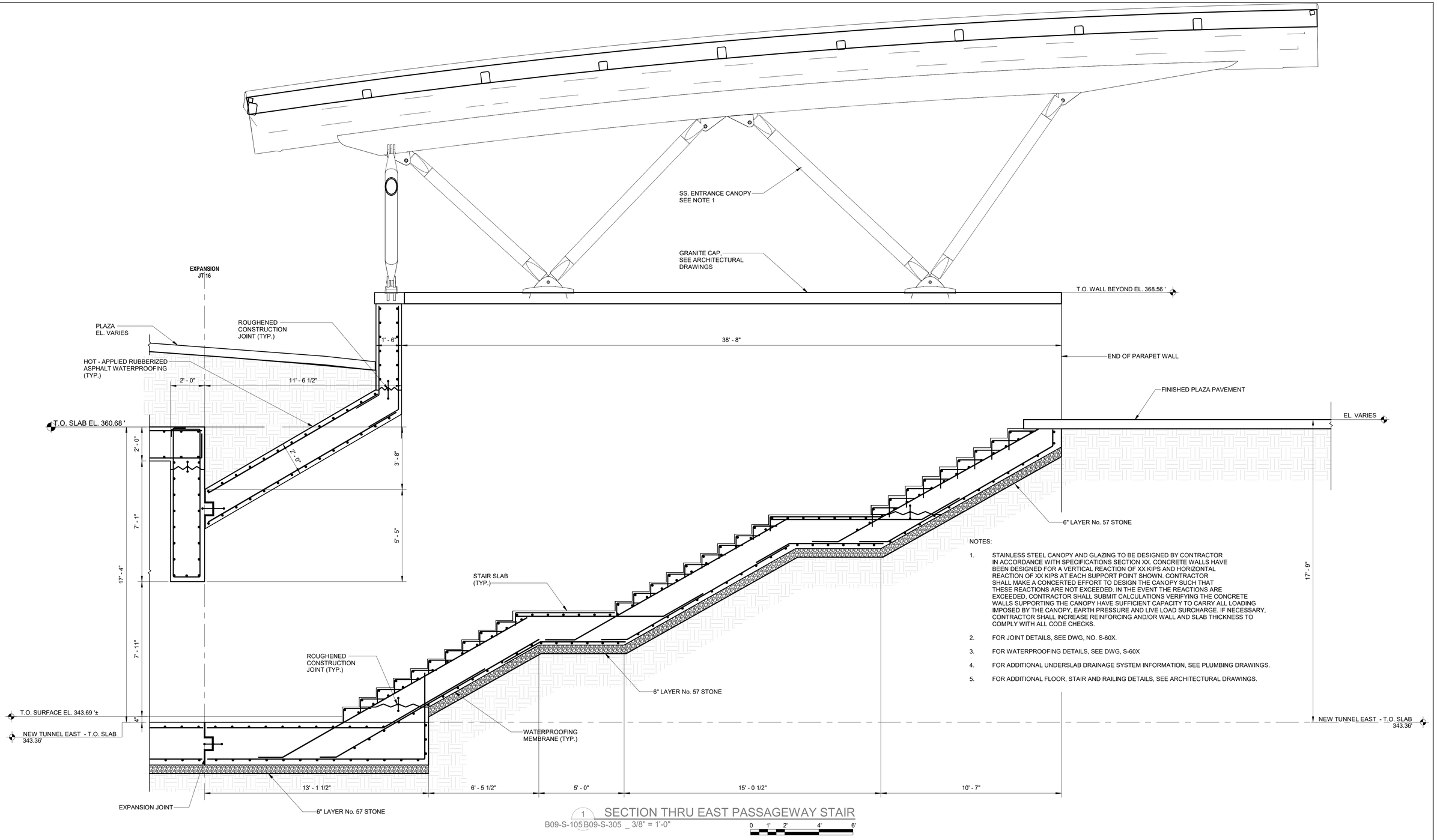

NOTES:

1. STAINLESS STEEL CANOPY AND GLAZING TO BE DESIGNED BY CONTRACTOR IN ACCORDANCE WITH SPECIFICATIONS SECTION XX. CONCRETE WALLS HAVE BEEN DESIGNED FOR A VERTICAL REACTION OF XX KIPS AND HORIZONTAL REACTION OF XX KIPS AT EACH SUPPORT POINT SHOWN. CONTRACTOR SHALL MAKE A CONCERTED EFFORT TO DESIGN THE CANOPY SUCH THAT THESE REACTIONS ARE NOT EXCEEDED. IN THE EVENT THE REACTIONS ARE EXCEEDED, CONTRACTOR SHALL SUBMIT CALCULATIONS VERIFYING THE CONCRETE WALLS SUPPORTING THE CANOPY HAVE SUFFICIENT CAPACITY TO CARRY ALL LOADING IMPOSED BY THE CANOPY, EARTH PRESSURE AND LIVE LOAD SURCHARGE. IF NECESSARY, CONTRACTOR SHALL INCREASE REINFORCING AND/OR WALL AND SLAB THICKNESS TO COMPLY WITH ALL CODE CHECKS.
2. FOR JOINT DETAILS, SEE DWG, NO. S-60X.
3. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
4. FOR ADDITIONAL UNDERSLAB DRAINAGE SYSTEM INFORMATION, SEE PLUMBING DRAWINGS.
5. FOR ADDITIONAL FLOOR, STAIR AND RAILING DETAILS, SEE ARCHITECTURAL DRAWINGS.

1 SECTION THRU EAST PASSAGEWAY STAIR
B09-S-105 B09-S-305 _ 3/8" = 1'-0"

0 1' 2' 4' 6'

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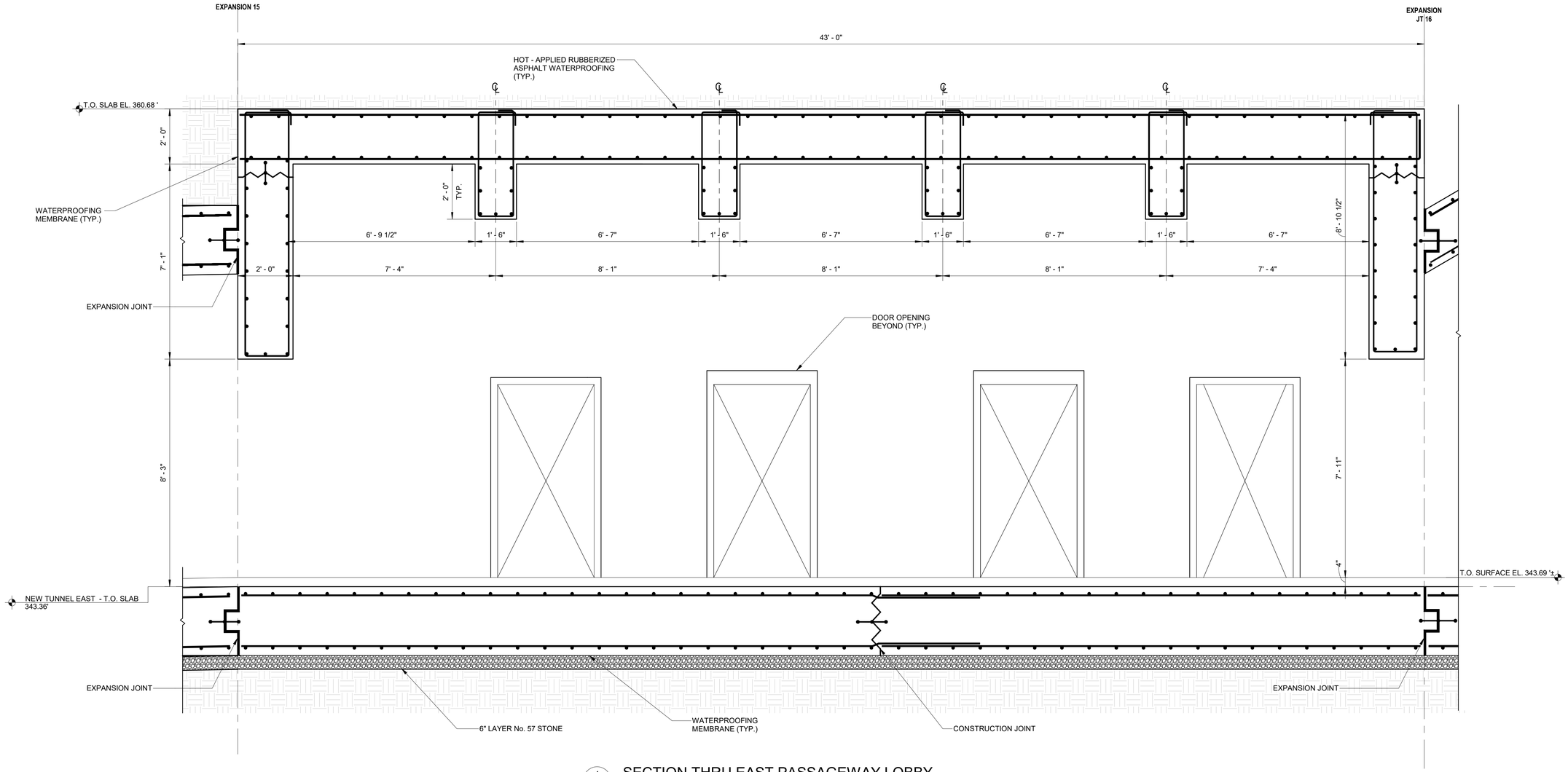

1 SECTION THRU EAST PASSAGEWAY LOBBY
B09-S-105 B09-S-306 _ 1/2" = 1'-0"
0 1' 2' 4' 6'

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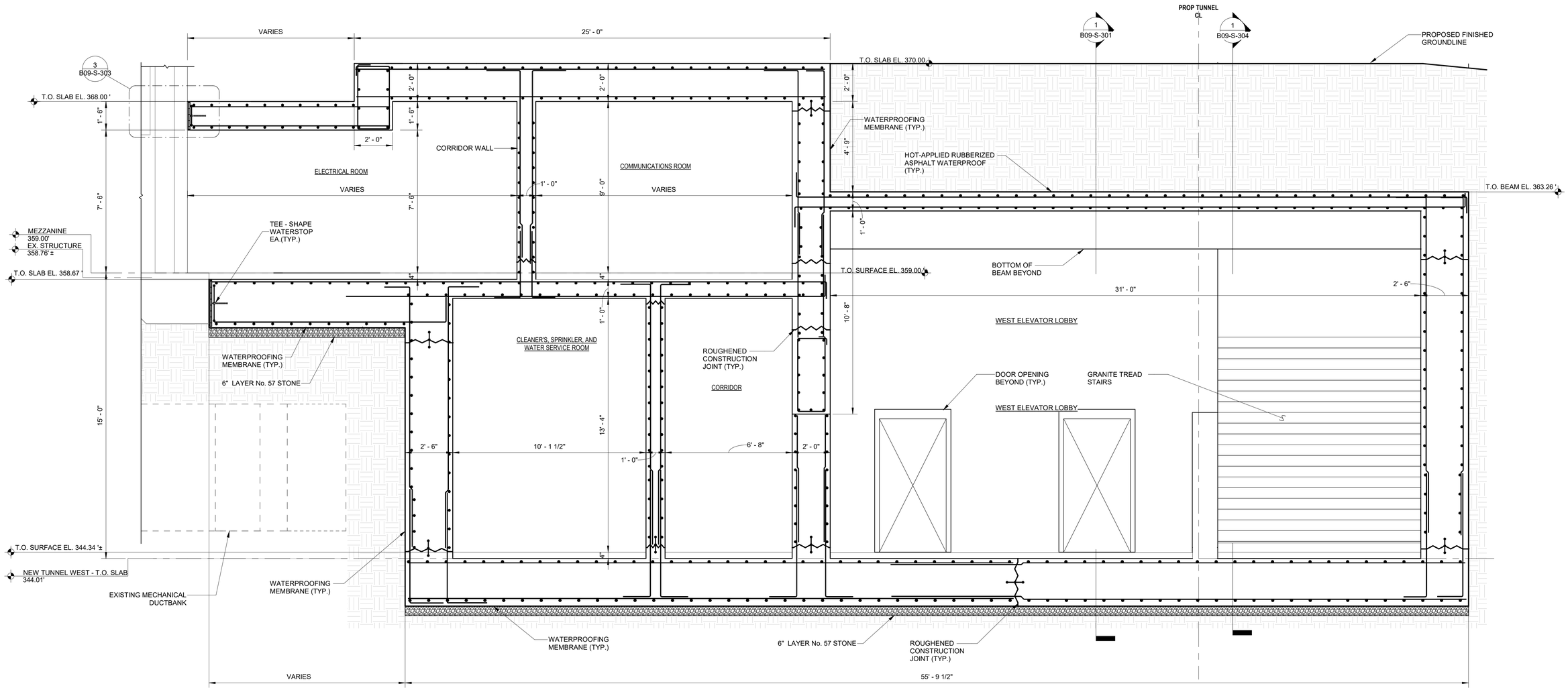

1 SECTION THRU WEST PASSAGEWAY ELEVATOR LOBBY TUNNEL LEVEL

B09-S-107 B09-S-307 _ 3/8" = 1'-0"

0 1' 2' 4' 6'

NOTES:

1. FOR JOINT DETAILS, SEE DWG, NO. S-60X.
2. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
3. FOR ADDITIONAL UNDERSLAB DRAINAGE SYSTEM INFORMATION, SEE PLUMBING DRAWINGS.
4. FOR ADDITIONAL FLOOR, STAIR AND RAILING DETAILS, SEE ARCHITECTURAL DRAWINGS.
5. FOR ADDITIONAL REINFORING AROUND OPENINGS SEE DETAILS ON DWG. S-60X.

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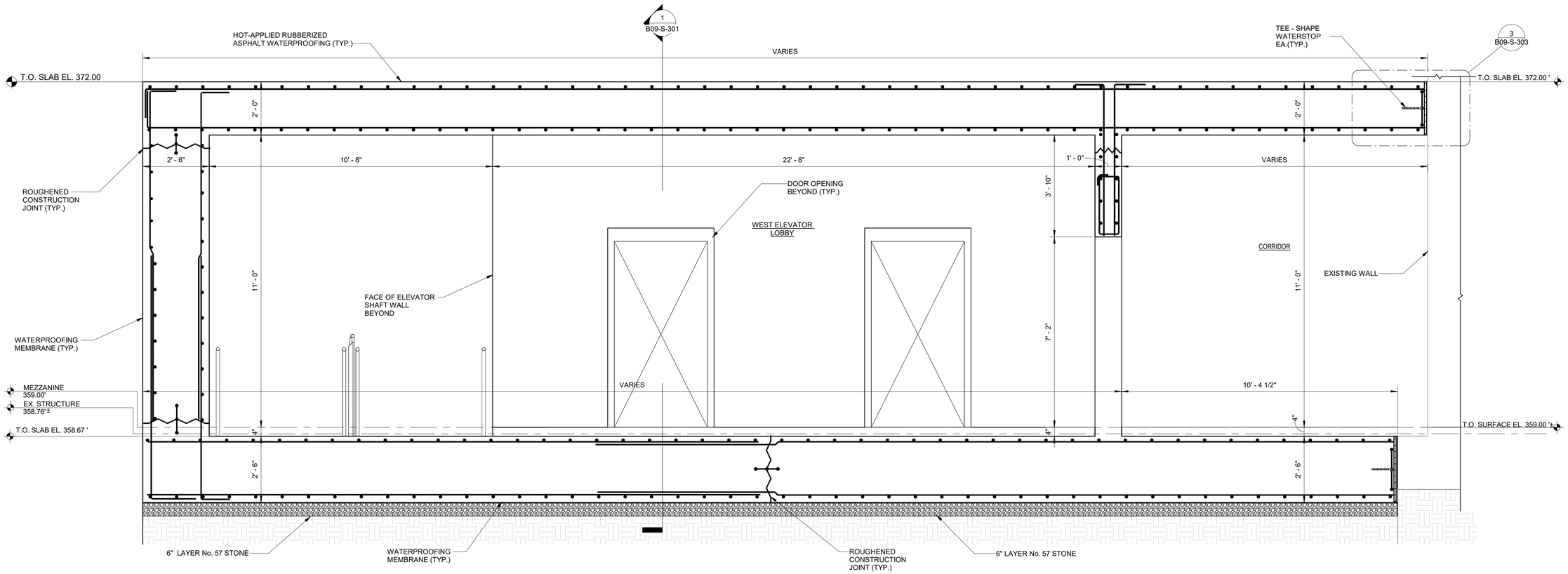

1 CROSS SECTION THRU WEST PASSAGEWAY ELEVATOR LOBBY
B09-S-107 B09-S-308 _ 1/2" = 1'-0"

0 6" 1' 2' 4'

NOTES:

1. FOR JOINT DETAILS, SEE DWG, NO. S-60X.
2. FOR WATERPROOFING DETAILS, SEE DWG, S-60X
3. FOR ADDITIONAL UNDERSLAB DRAINAGE SYSTEM INFORMATION, SEE PLUMBING DRAWINGS.
4. FOR ADDITIONAL FLOOR, STAIR AND RAILING DETAILS, SEE ARCHITECTURAL DRAWINGS.
5. FOR ADDITIONAL REINFORING AROUND OPENINGS SEE DETAILS ON DWG. S-60X.

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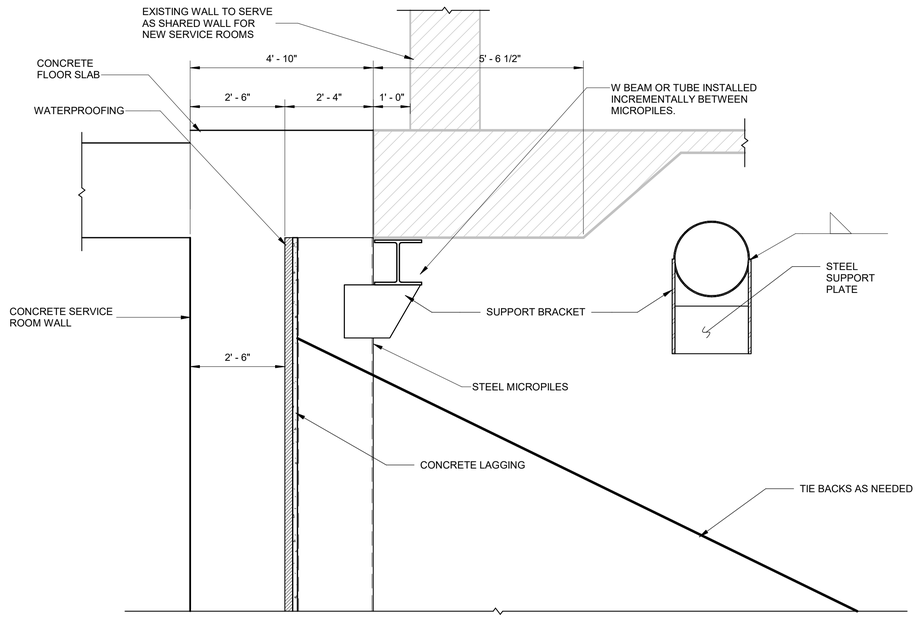

SUGGESTED SEQUENCE OF INSTALLATION:

1. INSTALL MICROPILES ALONG EDGE OF EXISTING FOOTING FROM EXISTING GROUND SURFACE.
2. EXCAVATE FOR SERVICE ROOMS DOWN TO BOTTOM OF EXISTING FOOTING.
3. INCREMENTALLY EXCAVATE BELOW EXISTING FOOTING TO INSTALL STEEL SUPPORT BRACKETS AND W BEAMS/TUBES TO SUPPORT EXISTING WALL AND FOOTING.
4. SHIM/GROUT ANY VOIDS BETWEEN EXISTING FOOTING AND SUPPORT BEAMS.
5. CONTINUE EXCAVATION FOR LOWER - LEVEL SERVICE ROOMS INSTALLING TIE - BACKS AND CONCRETE LAGGING AS EXCAVATION PROGRESSES.
6. UNSPIN/REMOVE/ CUT OFF SECTIONS OF MICROPILES ABOVE EXISTING FOOTING.
7. INSTALL WATER PROOFING ON CONCRETE LAGGING.
8. POUR SERVICE ROOM SLABS AND WALLS AGAINST LAGGING.

1 EXISTING STATION UNDERPINNING DETAIL
B09-S-311 _ 1/2" = 1'-0"

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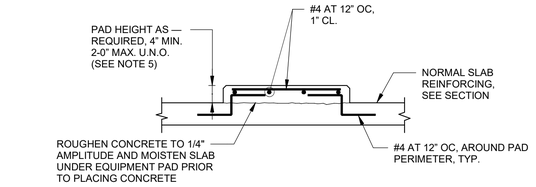
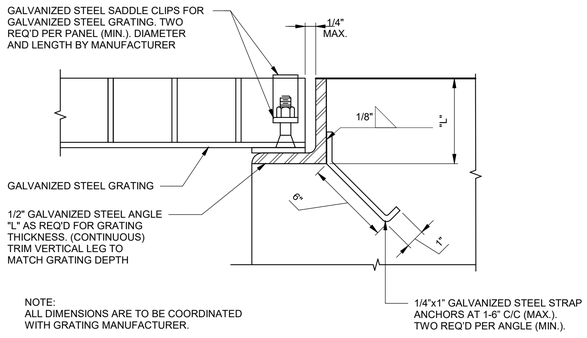


1 EQUIPMENT SUPPORT PAD DETAILS
B09-S-601 NOT TO SCALE

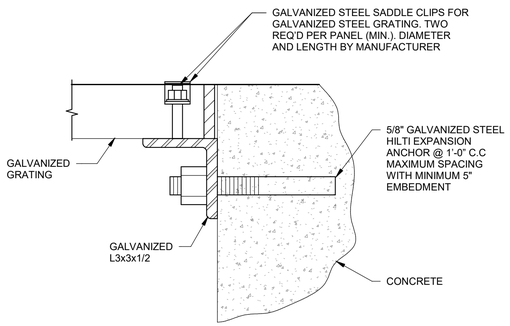
EQUIPMENT SUPPORT PAD NOTES

1. THE MINIMUM PAD SIZE SHALL BE AS INDICATED OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER.
2. THE SIZE, NUMBER, TYPE, LOCATION AND THE THREAD PROJECTION OF THE ANCHOR BOLTS SHALL BE DETERMINED BY THE EQUIPMENT MANUFACTURER. HOLD CONCRETE ANCHOR BOLTS IN POSITION WITH A TEMPLATE WHILE PAD IS BEING PLACED.
3. DRILL AND GROUT THREADED ANCHOR BARS WITH AN APPROVED CHEMICAL ANCHORAGE SYSTEM.
4. EQUIPMENT BASES SHALL BE INSTALLED LEVEL UNLESS NOTED OTHERWISE ON THE PLANS.
5. FOR EQUIPMENT PADS WITH HEIGHT GREATER THAN 2'-0", THE CONTRACTOR SHALL SUBMIT THE DETAIL TO THE ENGINEER FOR APPROVAL.
6. IF INSTALLING PAD ON EXISTING CONCRETE, DRILL AND GROUT #4 AS SHOWN WITH HILTI HIT RE 500 SD INJECTION SYSTEM OR APPROVED EQUAL WITH EMBEDMENT EQUAL TO SLAB THICKNESS MINUS 3" OR 8" MAX. TOP OF EXISTING CONCRETE SHALL BE ROUGHENED WITH A COARSE WIRE BRUSH TO A FULL 1/4" AMPLITUDE TO REMOVE ALL LAITANCE AND TO PROVIDE A ROUGHENED SURFACE FOR BONDING NEW CONCRETE TO EXISTING CONCRETE. APPLY BONDING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. FILL INSIDE OF EQUIPMENT BASE WITH 10,000 PSI NON-SHRINK GROUT. SLOPE FROM CENTER TO EDGES TO DRAIN.

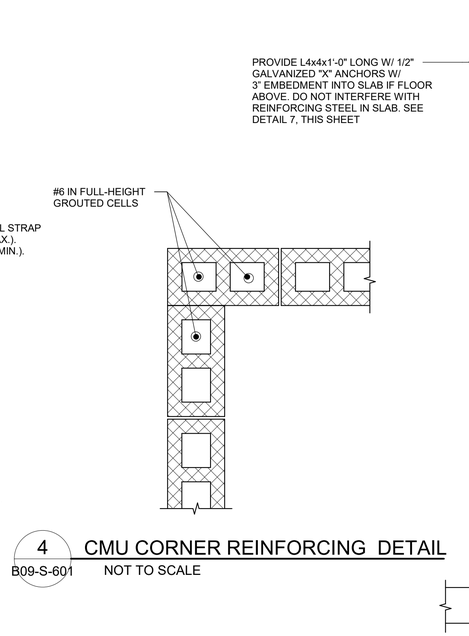


NOTE:
ALL DIMENSIONS ARE TO BE COORDINATED WITH GRATING MANUFACTURER.

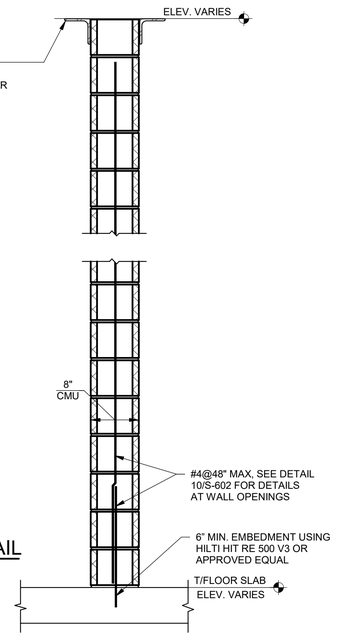
3 GRATING EDGE DETAIL
B09-S-601 NOT TO SCALE



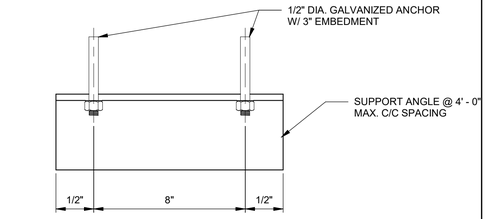
11 GRATING SUPPORT DETAIL
B09-S-601 NOT TO SCALE



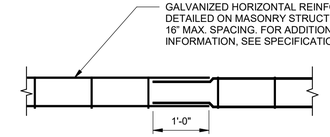
4 CMU CORNER REINFORCING DETAIL
B09-S-601 NOT TO SCALE



5 INTERIOR MASONRY WALL DETAIL
B09-S-601 NOT TO SCALE

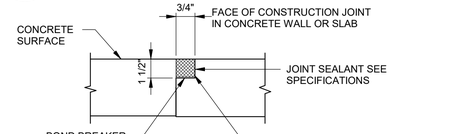


6 ANCHOR DETAIL
B09-S-601 NOT TO SCALE



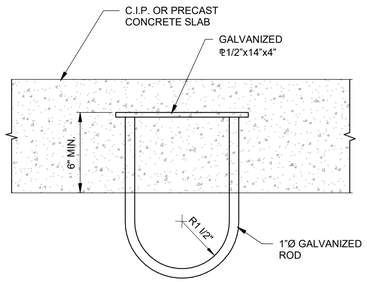
NOTE:
MASONRY NOT SHOWN FOR CLARITY.

7 LADDER REINFORCING SPLICE DETAIL
B09-S-601 NOT TO SCALE



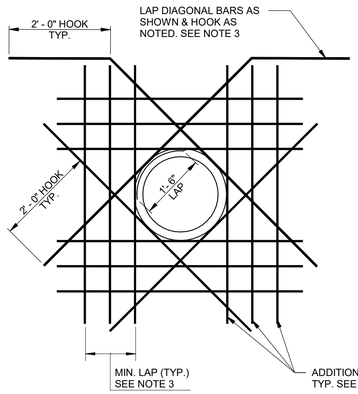
NOTE:
SEALANT TO BE LOCATED ON WEATHER SIDE OF WALL IF ABOVE GRADE.

8 CONSTRUCTION JOINT SEALANT
B09-S-601 NOT TO SCALE

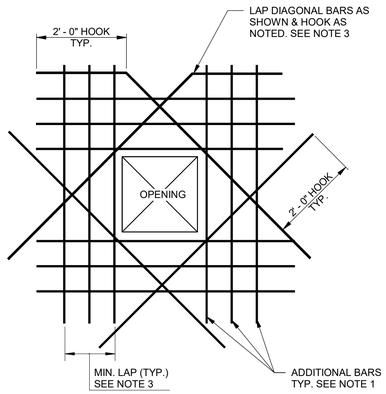


LIFTING HOOKS ARE 2 1/2 TON CAPACITY

2 TYPICAL LIFTING HOOK DETAIL
B09-S-601 NOT TO SCALE



NOTES:
1. NUMBER OF ADDITIONAL REINFORCING BARS AT EACH SIDE OF OPENING SHALL EQUAL HALF THE NUMBER OF INTERRUPTED BARS IN EACH LAYER OF REINFORCING.
2. SIZE OF ADDITIONAL REINFORCING BARS TO EQUAL SIZE OF INTERRUPTED REINFORCING BARS.
3. PROVIDE STANDARD HOOK BARS IF LAP LENGTH EXTENSION CANNOT BE OBTAINED AT JOINTS OR OTHER OBSTRUCTIONS. PLACE ADDITIONAL BARS IN SAME PLANES AS INTERRUPTED REINFORCING.
4. SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT, UNLESS OTHERWISE NOTED. LOCATE DIAGONALS IN EACH LAYER OF REINFORCING.
5. PLACE DIAGONAL BARS INSIDE NORMAL REINFORCING.
6. ALL REINFORCING TO CLEAR OPENING OR FLANGE COLLARS BY 2".
7. ADDITIONAL REINFORCING BARS ARE REQUIRED AT ALL LOCATIONS WHERE THE REINFORCING IS INTERRUPTED BY AN OPENING.



9 ADDITIONAL REINFORCING BAR DETAILS FOR OPENINGS LARGER THAN 18"
B09-S-601 NOT TO SCALE

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STRUCUTURAL STANDARD DETAILS - 1

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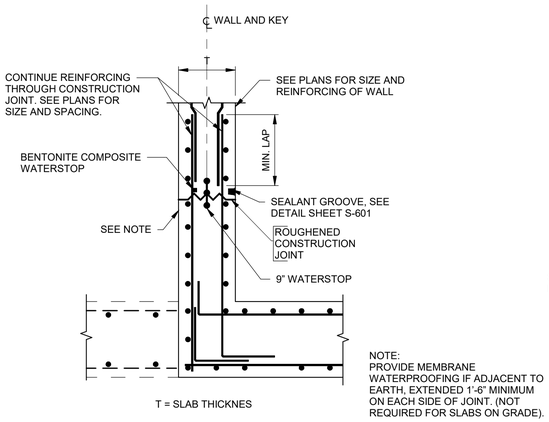
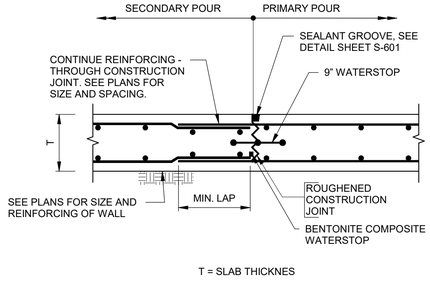
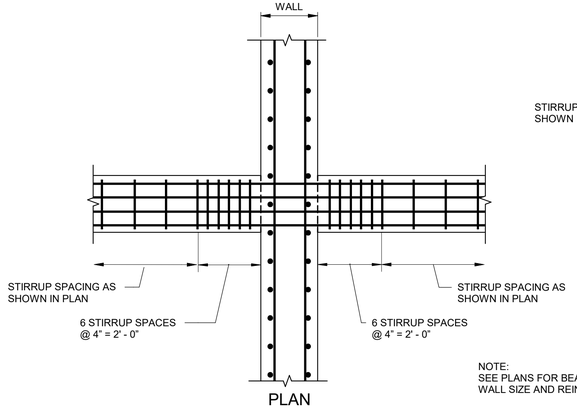
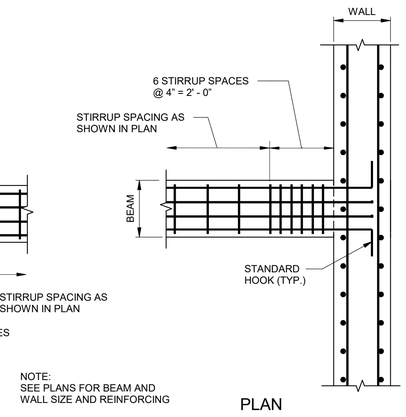


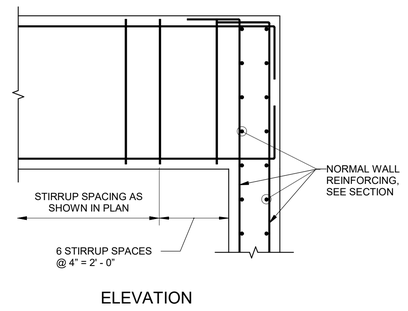
1 B09-S-602 CONSTRUCTION JOINT - WALL TO WALL
NOT TO SCALE



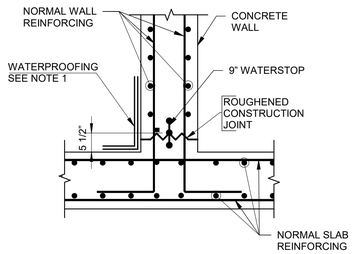
2 B09-S-602 FOUNDATION CONSTRUCTION JOINT
NOT TO SCALE



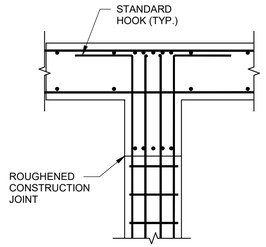




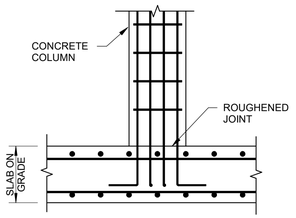
8 B09-S-602 TYPICAL BEAM TO WALL CONNECTIONS (COLUMN ELEVATION SIMILAR)
NOT TO SCALE



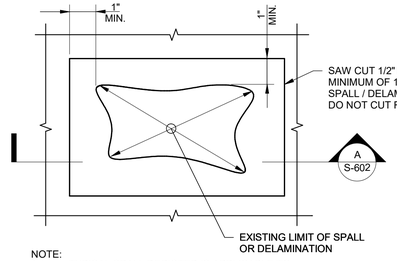
NOTE: 1
PROVIDE MEMBRANE WATERPROOFING IF ADJACENT TO EARTH, EXTENDED 1'-6" MINIMUM ON EACH SIDE OF JOINT. (NOT REQUIRED FOR SLABS ON GRADE).



NOTE:
SEE PLANS FOR SIZE AND SPACING OF REINFORCEMENT.



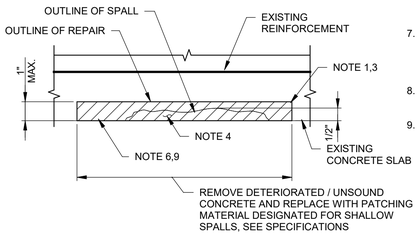
NOTE:
SEE PLANS FOR SIZE AND SPACING OF REINFORCEMENT.



NOTE:
1. TYPICAL SPALL DEPICTED IS APPLICABLE TO HORIZONTAL AND OVERHEAD SURFACE OF CONCRETE.

PLAN VIEW OF SPALL REPAIR

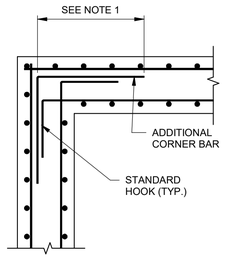
NOTES SUGGESTED SLAB SPALL REPAIR PROCEDURE:
1. SAW CUT MINIMUM 1" BEYOND PERIMETER OF PATCH TO DEPTH OF 1/2" OR TO THE DEPTH OF THE REINFORCING STEEL, WHICHEVER IS LESS.
2. CHIP OUT AND REMOVE DETERIORATED AND DELAMINATED CONCRETE TO LINE OF SAW-CUT.
3. REMOVE ALL LOOSE MATERIAL, DUST AND ALL CONTAMINANTS BY BLOWING OUT WITH OIL-FREE COMPRESSED AIR.
4. CLEAN EXISTING CONCRETE AND REBAR TO REMOVE RUST, OXIDES AND SCALE.
5. AT THE TIME OF APPLICATION OF PATCHING MATERIAL, SATURATE SUBSTRATE SURFACE WITH BONDING AGENT.
6. IMMEDIATELY FOLLOWING THE BONDING AGENT, PLACE THE APPROPRIATE PATCHING MATERIAL. USE CEMENTITIOUS OR POLYMER MODIFIED PATCHING MATERIAL IN CONFORMANCE WITH SPECIFICATIONS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF PATCHING MATERIALS. EXTEND MORTAR WHEN REPAIR THICKNESS OF LIFT IS GREATER THAN 3/4" PER MANUFACTURER REQUIREMENTS.
7. WHEN REPAIR MORTAR IS PLACED IN MULTIPLE LIFTS, CONTRACTOR SHALL SCORE SURFACE OF MORTAR FOR ADDITIONAL LIFTS AND APPLY A BONDING AGENT BEFORE APPLYING NEW LIFT, UNLESS OTHERWISE REQUIRED BY MANUFACTURER'S REPAIR MATERIALS.
8. ALL REPAIRED AREAS SHALL BE CURED BY UTILIZING PLASTIC SHEETING TAPED ALL AROUND. SHEETING SHALL REMAIN IN PLACE FOR A MINIMUM OF THREE (3) DAYS.
9. ALL SPALL REPAIR LOCATIONS AND DETAILS SHALL BE SUBMITTED TO THE AUTHORITY FOR REVIEW AND APPROVAL.

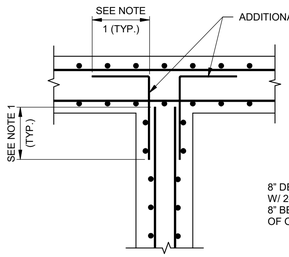


A S-602 SECTION
NO SCALE

9 B09-S-602 TYPICAL SHALLOW CONCRETE SPALL REPAIR
NOT TO SCALE

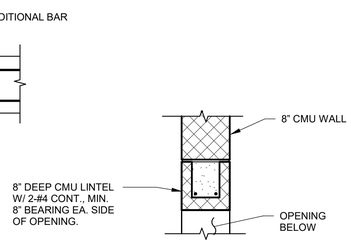
3 B09-S-602 TYPICAL WALL - SLAB CONSTRUCTION JOINT
NOT TO SCALE





NOTES:
1. UNLESS OTHERWISE NOTED ON THE DRAWING PROVIDE MINIMUM LAP AS REQUIRED. IF BAR SIZES DIFFER, USE THE MIN. LAP LENGTH AS REQUIRED FOR THE SMALLER OF THE TWO BARS BEING SPLICED.
2. UNLESS OTHERWISE NOTED ON THE DRAWING, THE ADDITIONAL BARS SHALL BE THE SAME SIZE AND AT THE SAME SPACING AS THE HORIZONTAL BARS.

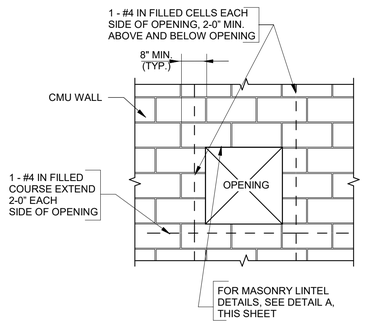
4 B09-S-602 TYPICAL COLUMN TO BEAM CONNECTION
NOT TO SCALE



NOTE:
LINTELS REQUIRED ABOVE ALL MASONRY OPENINGS

A B09-S-602 TYPICAL CMU LINTEL DETAIL
NOT TO SCALE

5 B09-S-602 TYPICAL CONCRETE COLUMN TO SLAB ON GRADE CONNECTION
NOT TO SCALE



NOTE:
REFER TO APPROPRIATE PROCESS, ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR SIZES AND LOCATIONS OF OPENINGS.

6 B09-S-602 CORNER REINFORCING DETAIL
NOT TO SCALE

7 B09-S-602 WALL INTERSECTION DETAIL
NOT TO SCALE

10 B09-S-602 TYPICAL REINFORCING AT MASONRY WALL OPENING
NOT TO SCALE

DESIGNED	Designer	DATE
DRAWN	Author	DATE
CHECKED	Checker	DATE
APPROVED	Approver	DATE

REVISIONS

DATE	BY	DESCRIPTION

RK&K
Engineers I Construction Managers I Planners I Scientists

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF OPERATIONS SERVICES
ENGINEERING SUPPORT SERVICES

SUBMITTED BY: DATE

APPROVED
CHIEF ENGINEER DATE

B09 PEDESTRIAN PASSAGEWAY FOREST GLEN STATION

STRUCTURAL STANDARD DETAILS - 2

SCALE	DRAWING NO.	SHEET NO.
AS NOTED	B09-S-602	46 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

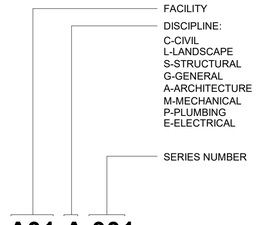
DRAWING ABBREVIATIONS

A	
AB	Anchor Bolt
ADD	Addendum
ADJ	Adjacent
AFF	Above Finished Floor
AGGR	Aggregate
ALUM	Aluminum
ALT	Alternate
ANOD	Anodized
APPROX	Approximate
ARCH	Architectural
B	
BLK'G	Blocking
B.M.	Bench Mark
BD	Board
BF	Backface
BL	Building Line
BLDG	Building
BM	Beam
BOH	Back of House
BRG	Bearing
BRL	Building Restriction Line
BTM	Bottom
BTWN	Between
C	
CEM	Cement
CIP	Cast In Place
CJ	Control Joint
CNJT	Construction Joint
CL	Center Line
CLG	Ceiling
CLR	Clear
CMU	Concrete Masonry Unit
COL	Column
CONC	Concrete
CONN	Connection
CONST	Construction
CONT	Continuous
COORD	Coordinate
CORR	Corrugated
CSK	Countersunk
CTD	Centered
CTR	Center
D	
D	Depth
DTLS	Details
DTL	Detail
DIA	Diameter
DIM	Dimension
DL	Dead Load
DN	Down
DS	Down Spout
DWGS	Drawings
DWLS	Dowels
E	
EA	Each
EJ	Expansion Joint
EL	Elevation
ELEV	Elevator
EMBDMT	Embedment
EOS	Edge of Slab
EPOXY'D	Epoxyed
EQ	Equal
EQUIP	Equipment
EW	Each Way
EXIST	Existing
EXP BLT	Expansion Bolt
EXT	Exterior
ETR	Existing to remain
F	
FD	Floor Drain
FDN	Foundation
FF	Finish Floor
FHC	Fire Hose Cabinet
FIN	Finish
FLR	Floor
F.R.	Fire Rated
FT	Foot
FTG	Footing
FV	Field Verify
G	
GA	Gauge
GALV	Galvanized
GB	Grade Beam
GEN	General
GI	Galvanized Iron
GLS	Glass
GMU	Glazed Masonry Unit
GND	Ground
GR	Grade
GSM	Galvinized Sheet Metal
GYP BD	Gypsum Board
H	
H.	High
HDW	Hardware
HDR	Header
HORIZ	Horizontal
HP	High Point
HR	Hour
HT	Height
HWD	Hardwood
I	
IBC	International Building Code
ID	Inside Diameter
INFO	Information
INSUL	Insulation
INT	Interior

J	
K	
L	
LDGR	Ledger
LG	Long
LOC	Location
LP	Low Point
LSL	Laminated Strand Lumber
LT	Light
LWC	Lightweight Concrete
M	
MANUF	Manufacturer
MAS	Masonry
MATL	Material
MAX	Maximum
MDO	Medium Density Overlay
MDF	Medium Density Fiber
MECH	Mechanical
MEMB	Membrane
MEP	Mechanical, Electrical and Plumbing
MEZZ	Mezzanine
MFR	Manufacturer
MIL	Thickness
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MOD	Modified
MTL	Metal
N	
N/A	Not Available/Applicable
NEC	Necessary
NIC	Not in Contract
NOM	Nominal
NTS	Not to Scale
NWC	Normal Weight Concrete
O	
OA	Over All
OC	On Center
OD	Outside Diameter
OD	Overflow Drain
OH	Opposite Hand
OPNG	Opening
OPP	Opposite
P	
PERF	Perforated
PL	Property Line
PLT	Plate
PLTFM	Platform
PLYWD	Plywood
PR	Pair
PREFAB	Prefabricated
PREP	Prepare
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Point
PTD	Painted
PT	Pressure Treated
PVDS	Polyvinylidene Fluoride
R	
R	Riser
RAD	Radius
RCP	Reflected Ceiling Plan
RD	Roof Drain
REBAR	Reinforcing Bar
REF	Reference
REFURB	Refurbish
REINF	Reinforcing
RELOC	Relocate/Relocated
REQD	Required
RM	Room
RO	Rough Opening
RR	Restroom
S	
S.A.B.	Sound Attenuation Board
SCHED	Schedule
SECT	Section
SF	Square Feet
SHT'G	Sheathing
SHT	Sheet
SIM	Similar
SISTER'D	Sistered
SO	Structural Opening
SOG	Slab on Grade
SPEC	Specification
SQ	Square
S.S.	SS
SSF	Solid Surface
SSG	Structural Silicone Glazing
STD	Standard
STIFF	Stiffener
STIR	Stirrup
STC	Sound Transmission Class
STL	Steel
STRUCT	Structural
SYM	Symmetrical
SYS	System

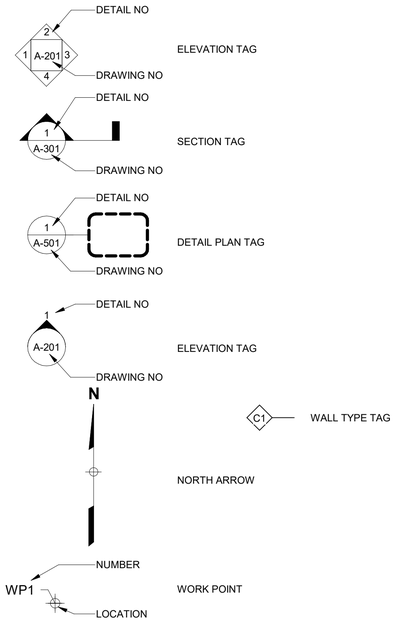
T	
T	Tread
TAPER'D	Tapered
TB	Towel Bar
T&B	Top and Bottom
T&G	Tongue and Groove
THK	Thick
THRU	Through
TJI'S	Trus Joist I Joist
TO	Top of
TOB	Top of Beam
TOC	Top of Concrete
TOCB	Top of Curb
TOF	Top of Footing
TOM	Top of Mullion
TOS	Top of Slab
TOSTL	Top of Steel
TP	Toilet Paper Holder
TR	Towel Ring
TW	Top of Wall
TYP	Typical
U	
U/C	Under counter
U/G	Underground
U.L.	Underwriters Laboratory
U.N.O.	Unless Noted Otherwise
UP,NS	Unprotected, Non sprinklered
V	
VAR	Varies
VERT	Vertical
V.I.F.	Verify In Field
W	
W/	With
W/O	Without
W	Width
WPFG	Waterproof(ing)
WD	Wood
WF	Wide Flange
WL	Wind Load
WP	Work Point
WP0	Work Point - Point of Origin
WP1	Work Point - numbered
W.R.	Weather/Water Resistant
WWF	Welded Wire Fabric

SHEET NUMBERING SYSTEM



MATERIALS LEGEND

ARCHITECTURAL SYMBOLS



GENERAL ARCHITECTURAL NOTES

1. ALL PROJECT DRAWINGS AND THE SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS.

2. ITEMS MARKED "N.I.C." ARE "NOT IN CONTRACT." SUCH ITEMS ARE INCLUDED IN THE DOCUMENTS AND REQUIRE CONTRACTORS COORDINATION FOR CONSTRUCTION.

3. DIMENSIONS:

A) IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON DRAWINGS.

B) ALL DIMENSIONS TO FACE OF CONCRETE OR CMU STUD UNLESS OTHERWISE NOTED.

C) CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FINISH FACE OF CEILING.

D) ALL INTERIOR ELEVATIONS ARE REFERENCED FROM TOP OF FINISH FLOOR BEING EQUAL TO +0' - 0".

E) ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

F) DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF AUTHORIZED REPRESENTATIVE IN WRITING.

G) MINIMUM CLEARANCE AND OTHER DISABLED ACCESS DIMENSIONAL REQUIREMENTS SHALL TAKE PRECEDENCE IN ALL CASES. NOTIFY AUTHORIZED REPRESENTATIVE OF ANY DISCREPANCIES.

H) DIMENSIONS AND GRAPHIC REPRESENTATIONS OCCURRING IN LARGE SCALED DRAWINGS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

I) DIMENSION STRING TOLERANCES MAY VARY IN PRECISION. 1/8" TOLERANCE TAKES PRECEDENCE IN ALL CASES.

4. DETAILS MARKED "TYPICAL" (TYP) SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.

5. WHERE NO SPECIFIC DETAIL IS SHOWN, THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THE PROJECT.

6. DETAILS MARKED AS "SIMILAR" (SIM) MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITION NOTED. VERIFY SIMILAR DIMENSIONS OR NOTES ON THE PLANS.

7. FOLLOW ALL MANUFACTURER'S RECOMMENDED SPECIFICATIONS AND INSTALLATION PROCEDURES UNLESS OTHERWISE DIRECTED.

8. ROOF COVERINGS AND ROOFING MATERIAL SHALL BE FIRE RETARDANT AND COMPLY WITH THE UNDERWRITERS LABORATORIES, INC., CLASS "A" U.L. FIRE HAZARD.

9. FIRE RATED WALLS SHALL EXTEND FROM RATED FLOOR AND TERMINATE AT A RATED CEILING ASSEMBLY.

10. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONS LOCATING FIXTURES.

11. PROVIDE ADEQUATE ANCHORAGE, BLOCKING, BACKING AND FRAMING FOR SPRINKLERS, PIPING, LIGHT FIXTURES, ELECTRICAL UNITS, HVAC EQUIPMENT, CEILING AND WALL MOUNTED EQUIPMENT (E.G. CABINETS, HANDRAILS & GUARDRAILS, AND LIGHT FIXTURES) ETC., AS REQUIRED FOR A COMPLETE INSTALLATION.

12. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITION ON THE JOBSITE AND AUTHORIZED REPRESENTATIVE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITION.

13. FOR ALL QUARRY TILE REPAIR AND REPLACEMENT DETAILS SEE WMATA STANDARD DRAWING SHEET ST-A-SW-001.

14. BIRD PROTECTION SYSTEMS ARE REQUIRED TO BE INSTALLED PER WMATA CRITERIA.

CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL EXAMINE THE PROJECT DRAWINGS AND PROJECT SPECIFICATIONS AND SHALL NOTIFY THE AUTHORIZED REPRESENTATIVE OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING WITH THE WORK.

2. THE CONTRACTOR SHALL VERIFY CONDITION AT THE SITE AND REPORT ANY DISCREPANCIES TO THE AUTHORIZED REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AND OPERATIONS OF ALL TRADES AND DISCIPLINES. THE CONTRACTOR SHALL:

A) SCHEDULE CONSTRUCTION OPERATION IN SEQUENCE TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS INSTALLATION.

B) COORDINATE INSTALLATION OF DIFFERENT COMPONENTS WITH OTHER CONTRACTORS TO ENSURE MAXIMUM ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE AND REPAIR.

C) MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.

4. FLOOR AND WALL OPENINGS, SLEEVES, VARIATIONS IN THE STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREAS, AND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND / OR CIVIL REQUIREMENTS MUST BE COORDINATED BY THE CONTRACTOR BEFORE THE CONTRACTOR PROCEEDS WITH CONSTRUCTION.

5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES BELOW GRADE AND RELATED SERVICE CONNECTIONS WITH THE RESPECTIVE UTILITY COMPANY PRIOR TO CONSTRUCTION.

6. THE CONTRACTOR SHALL NOTIFY MISS UTILITY PRIOR TO ANY EXCAVATION.

7. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT AND / OR RELOCATION OF EXISTING UTILITIES ABOVE OR BELOW GRADE WITH THE RESPECTIVE UTILITY COMPANY.

8. THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN STREET RIGHT-OF-WAYS ACCORDING TO THE APPROVED CITY STANDARD PLANS AND SPECIFICATIONS.

9. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACES AND SHORES REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURES AND COMPONENTS, ADJACENT SOILS AND STRUCTURES, UTILITIES AND RIGHT-OF-WAYS MAY BE SUBJECT DURING CONSTRUCTION.

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

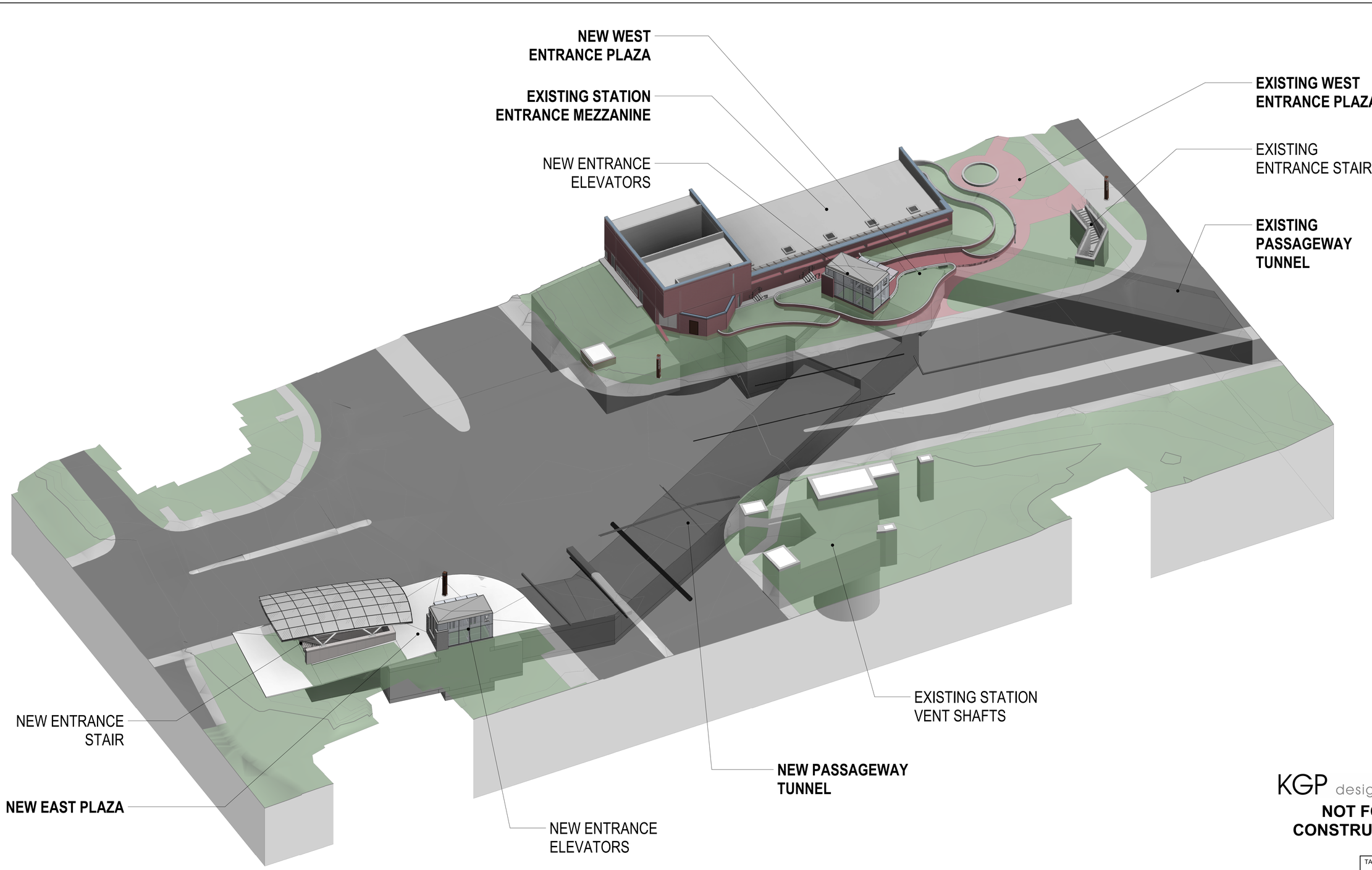
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-A-001	47 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



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DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
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		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

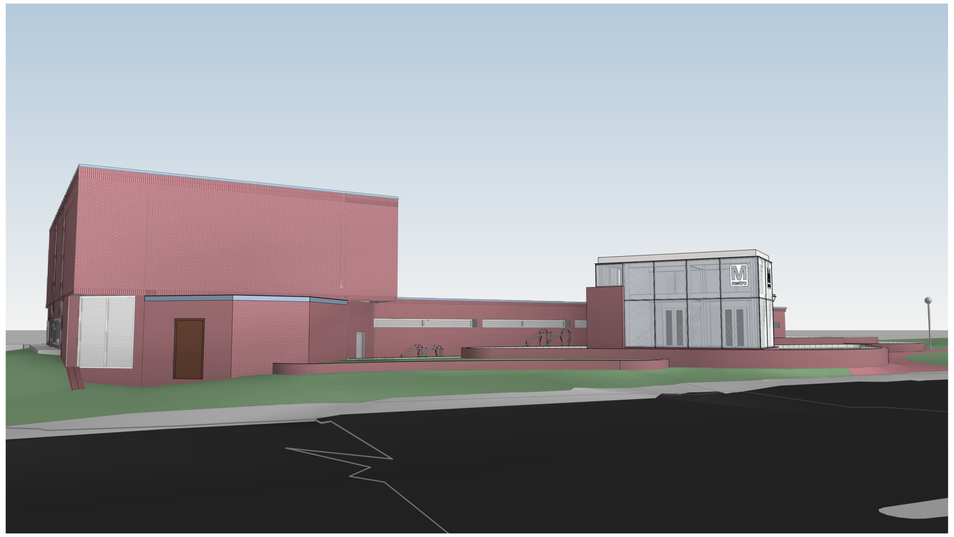
SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
3D VIEW - OVERVIEW

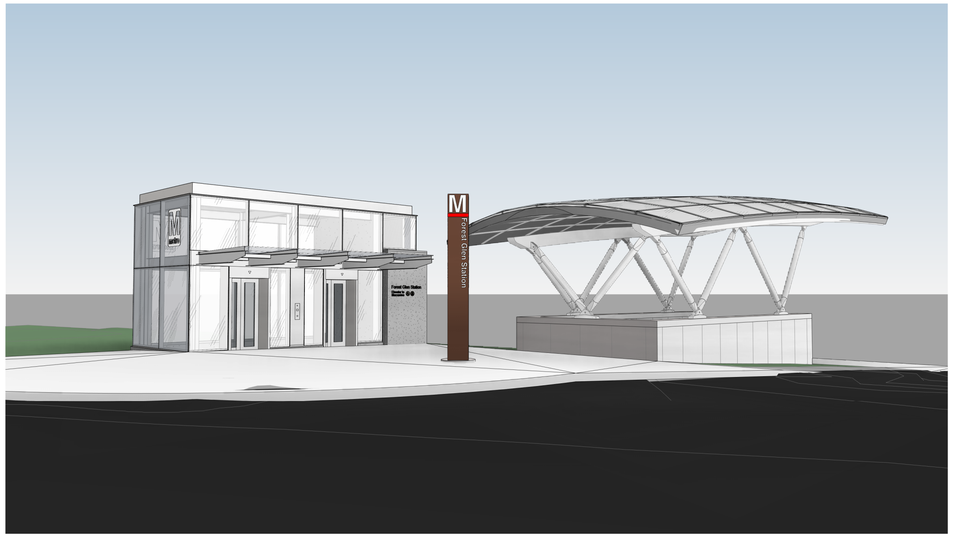
SCALE	DRAWING NO.	SHEET NO.
	B09-A-010	48 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

1 B09-A-011
3D VIEW - WEST PLAZA



2 B09-A-011
3D VIEW - WEST PLAZA FROM STREET



3 B09-A-011
3D VIEW - EAST PLAZA FROM STREET

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

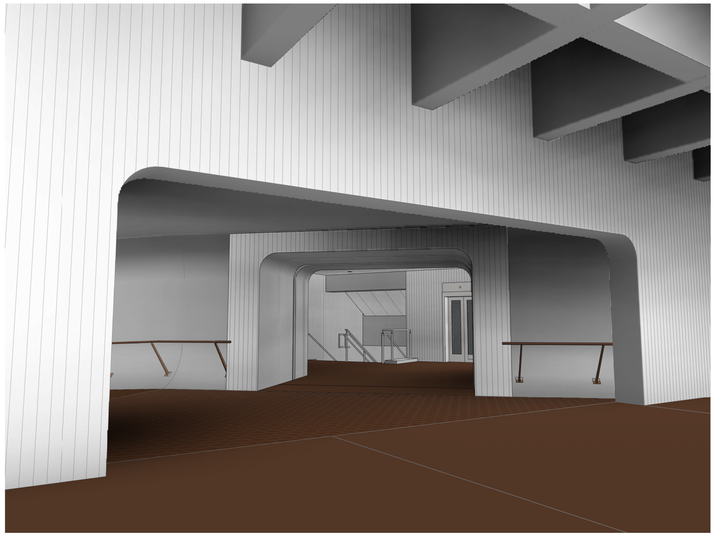
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

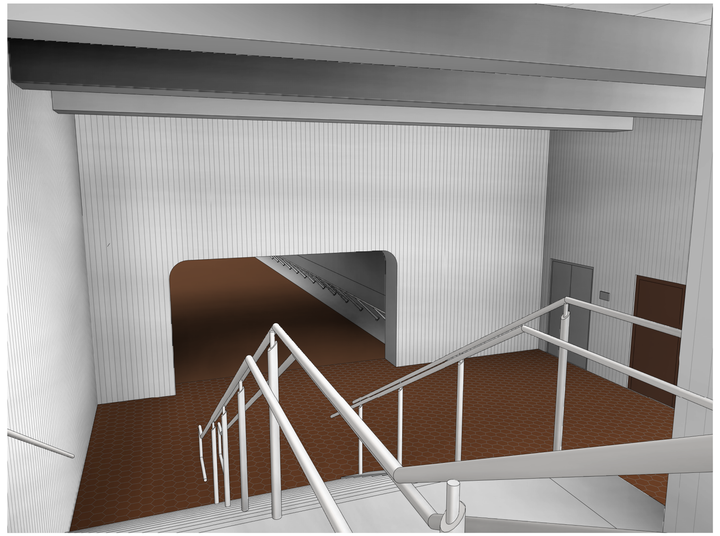
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
3D VIEWS - EXTERIOR

SCALE	DRAWING NO.	SHEET NO.
	B09-A-011	49 OF 183

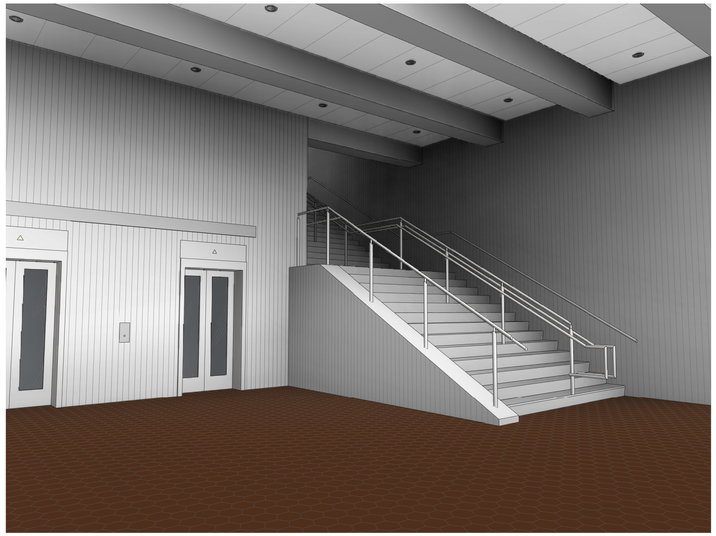
Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



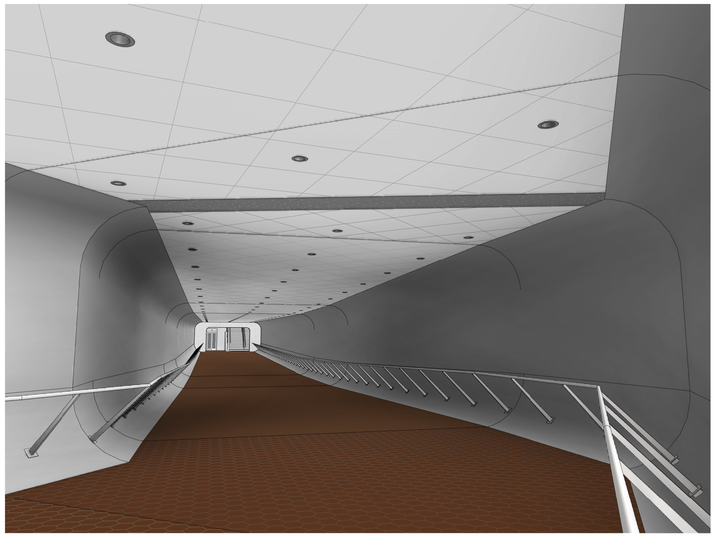
4 3D VIEW - WEST ELEV. LOBBY MEZZ. EXIT
B09-A-012



6 3D VIEW - WEST ELEVATOR LOBBY EXIT
B09-A-012

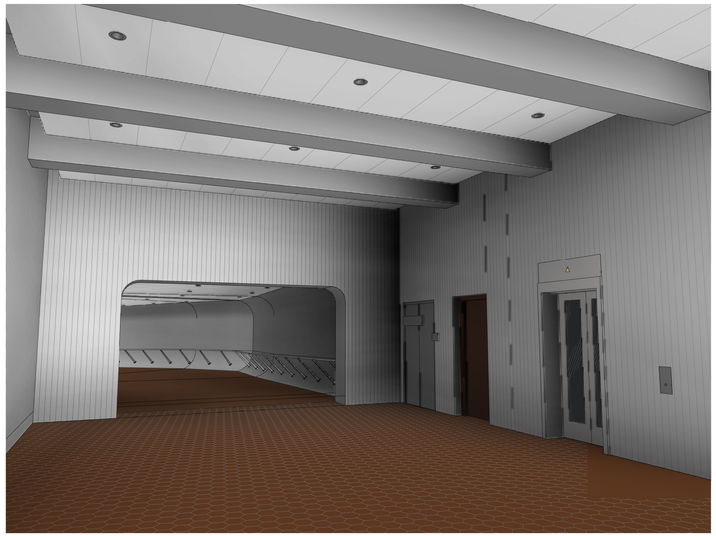


5 3D VIEW - WEST ELEVATOR LOBBY
B09-A-012



3 3D VIEW - TUNNEL
B09-A-012

1 3D VIEW - EAST ELEVATOR LOBBY
B09-A-012



2 3D VIEW - EAST ELEVATOR LOBBY EXIT
B09-A-012

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
3D VIEWS - EAST PLAZA & ELEVATOR LOBBY

SCALE	DRAWING NO.	SHEET NO.
	B09-A-012	50 OF 183

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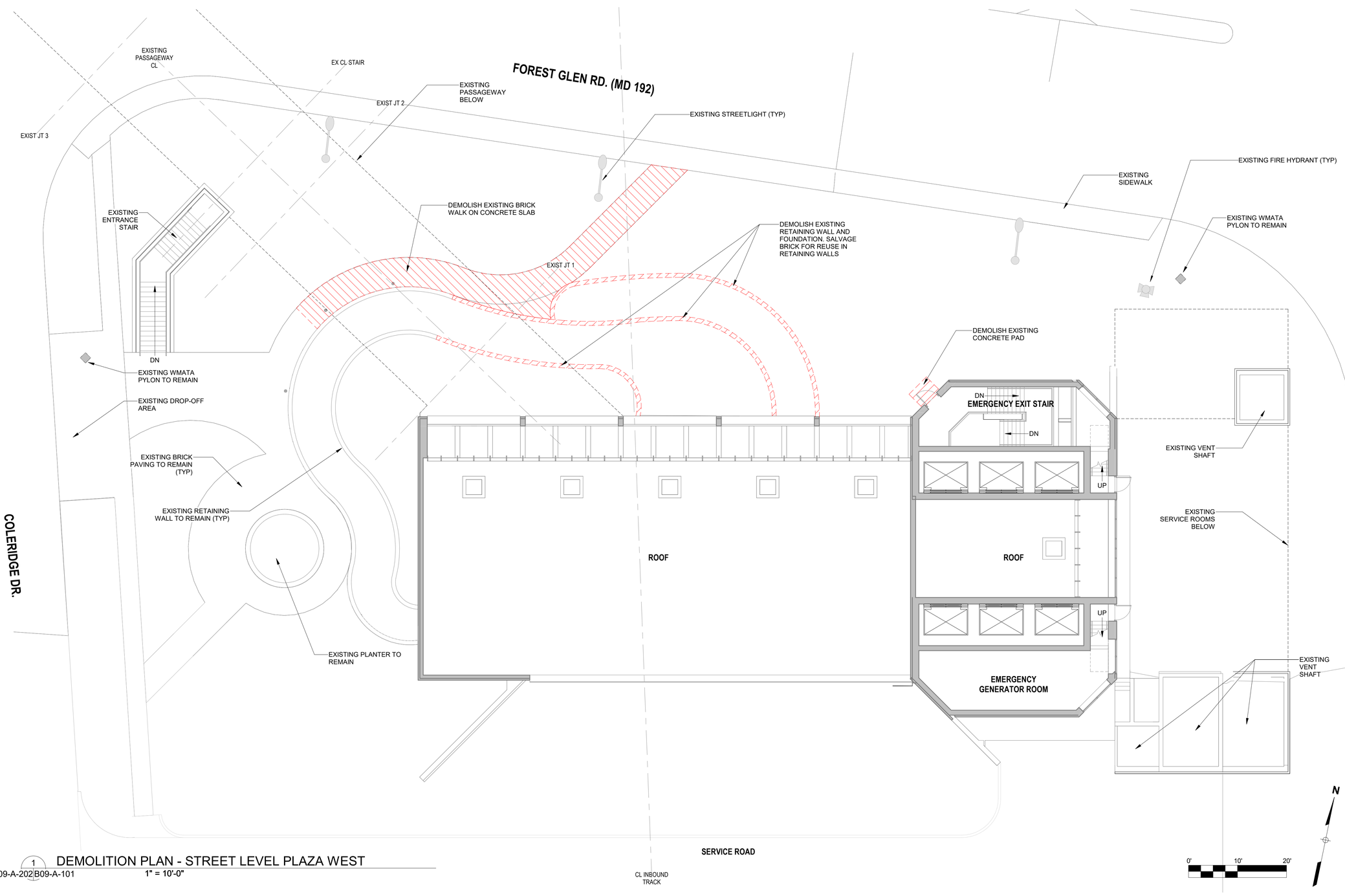


1 DEMOLITION PLAN - STREET LEVEL PLAZA WEST
B09-A-202 B09-A-101 1" = 10'-0"

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

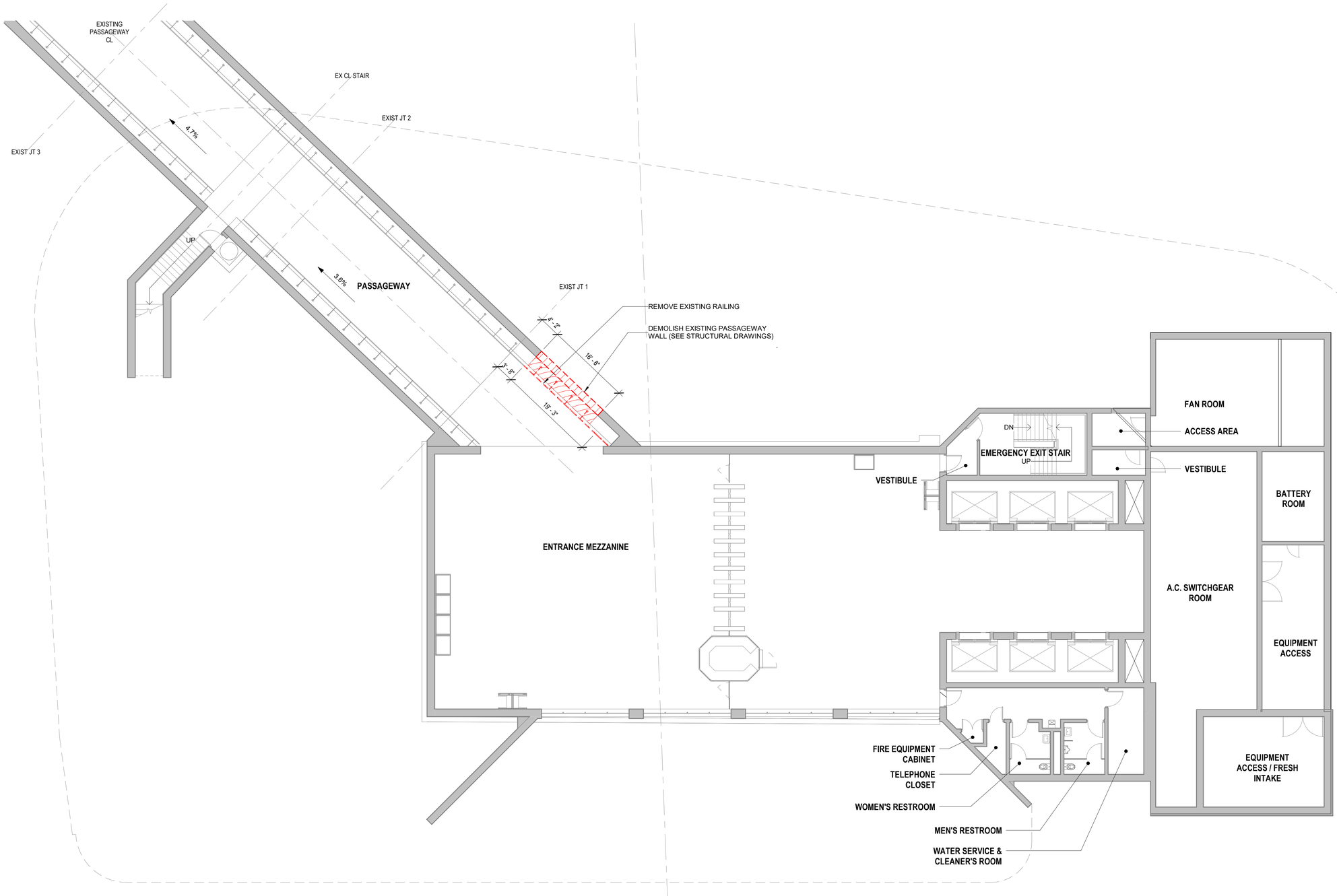
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
DEMOLITION PLAN - STREET LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-101	51 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 DEMOLITION PLAN - NEW TUNNEL WEST @ MEZZANINE LEVEL
B09-A-202 B09-A-102 1" = 10'-0"

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

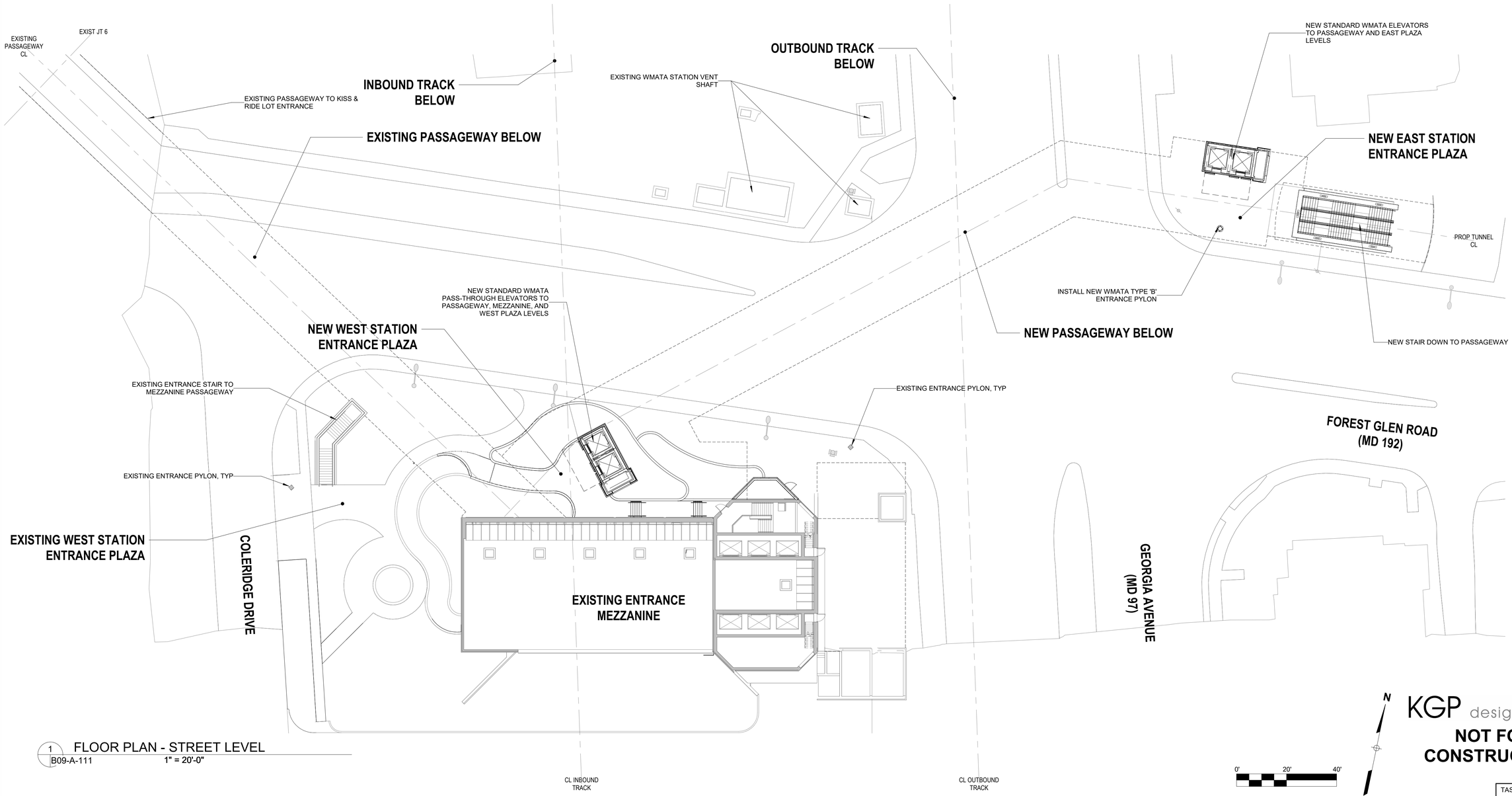
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
DEMOLITION PLAN - MEZZANINE

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-102	52 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - STREET LEVEL
B09-A-111 1" = 20'-0"

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NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
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		DATE
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		DATE
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		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

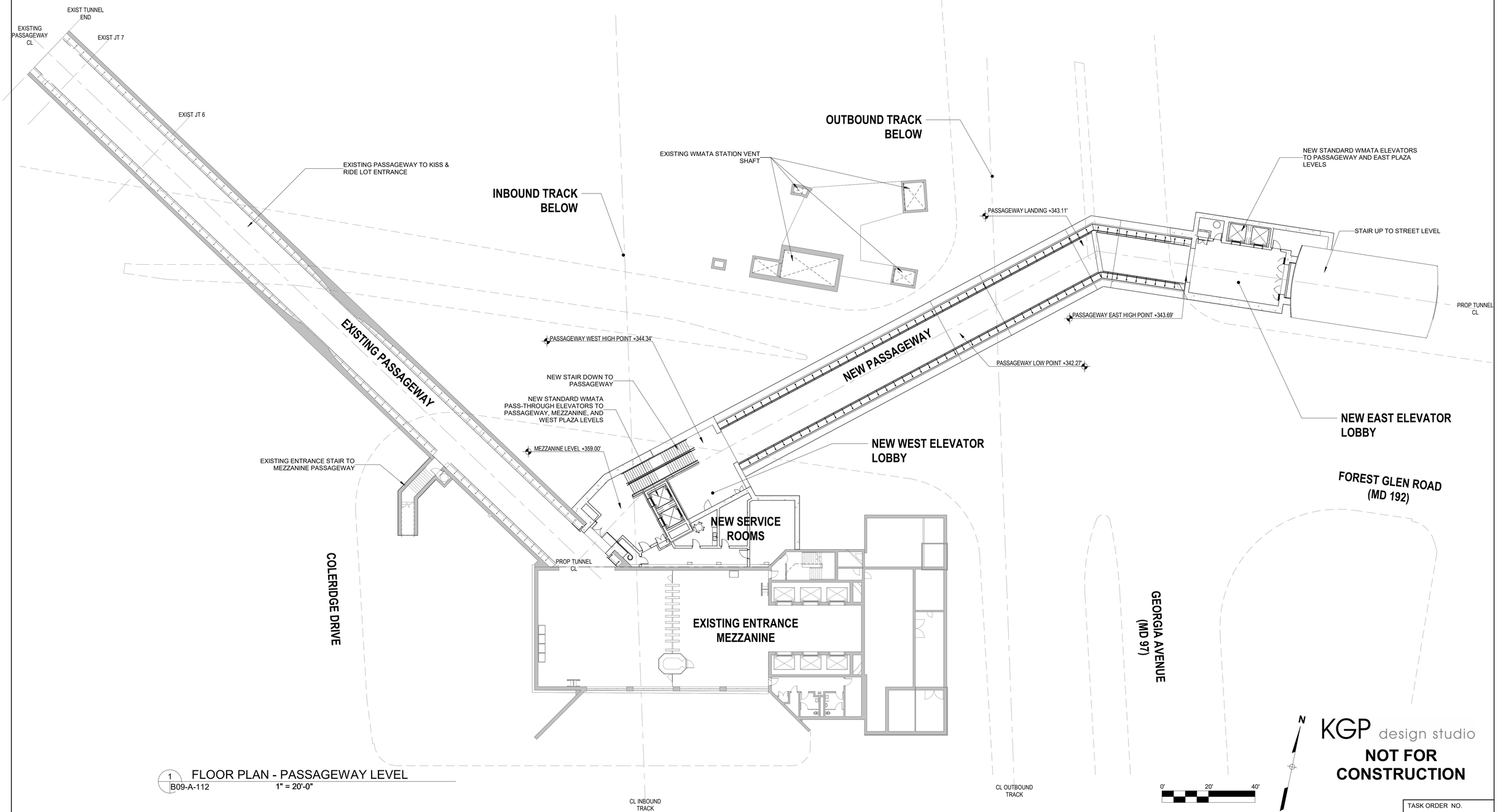
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - STREET LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 20'-0"	B09-A-111	53 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - PASSAGEWAY LEVEL
B09-A-112 1" = 20'-0"

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
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		DATE
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		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

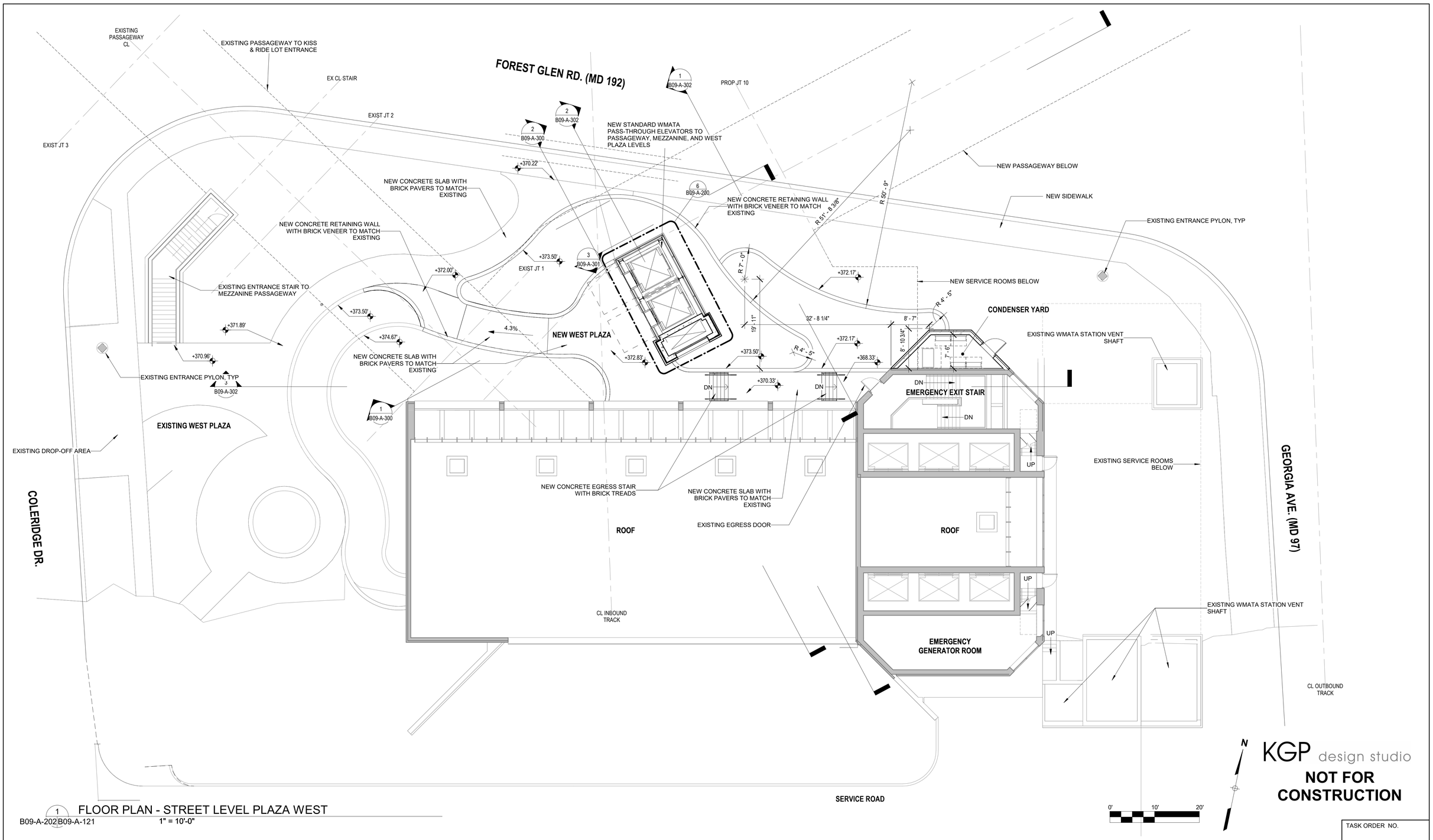
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - PASSAGEWAY LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 20'-0"	B09-A-112	54 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - STREET LEVEL PLAZA WEST
B09-A-202 B09-A-121 1" = 10'-0"

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
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		DATE
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		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

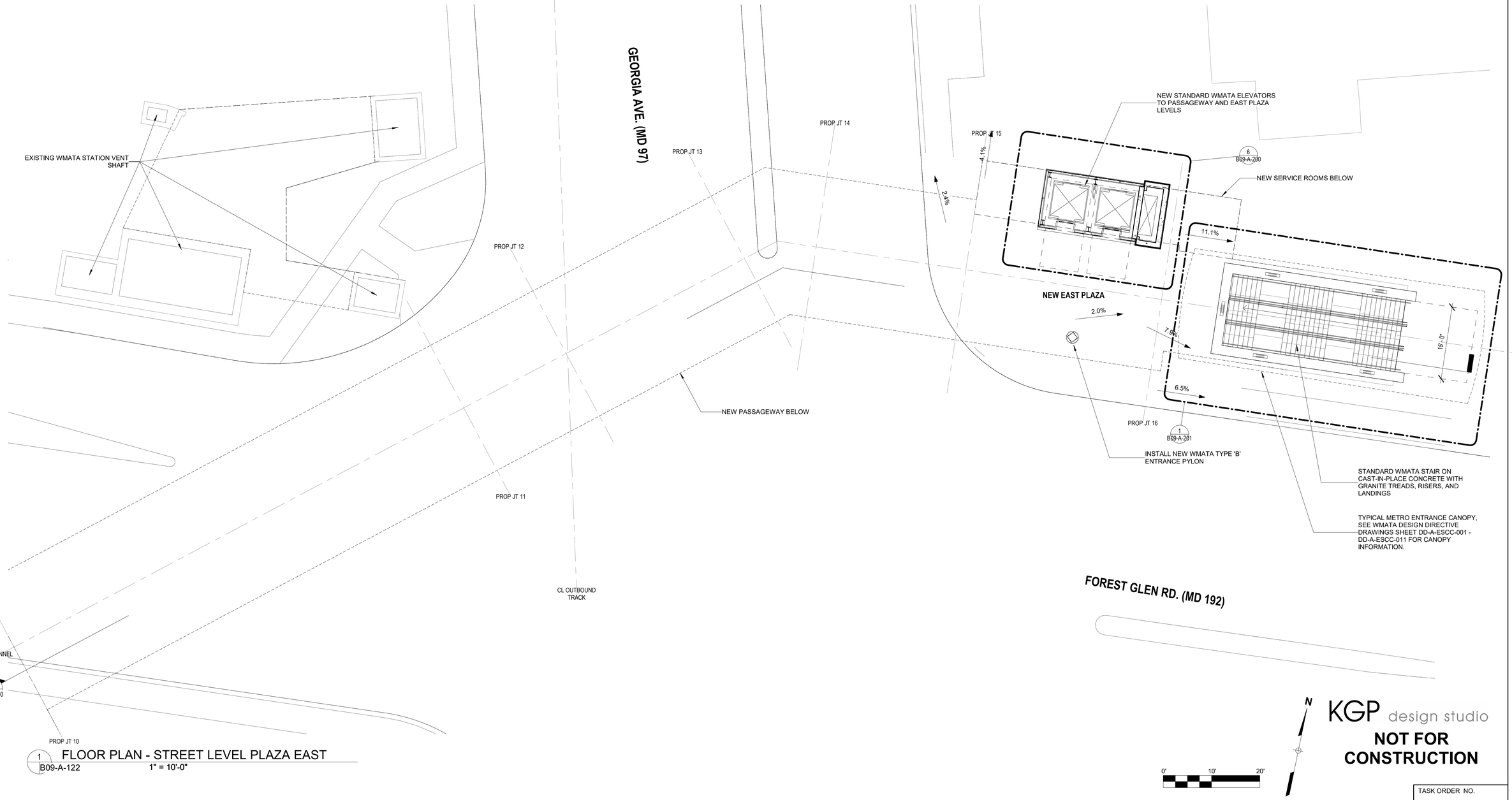
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - STREET LEVEL PLAZA WEST

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-121	55 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - STREET LEVEL PLAZA EAST
B09-A-122 1" = 10'-0"

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NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
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		DATE
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		DATE
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		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

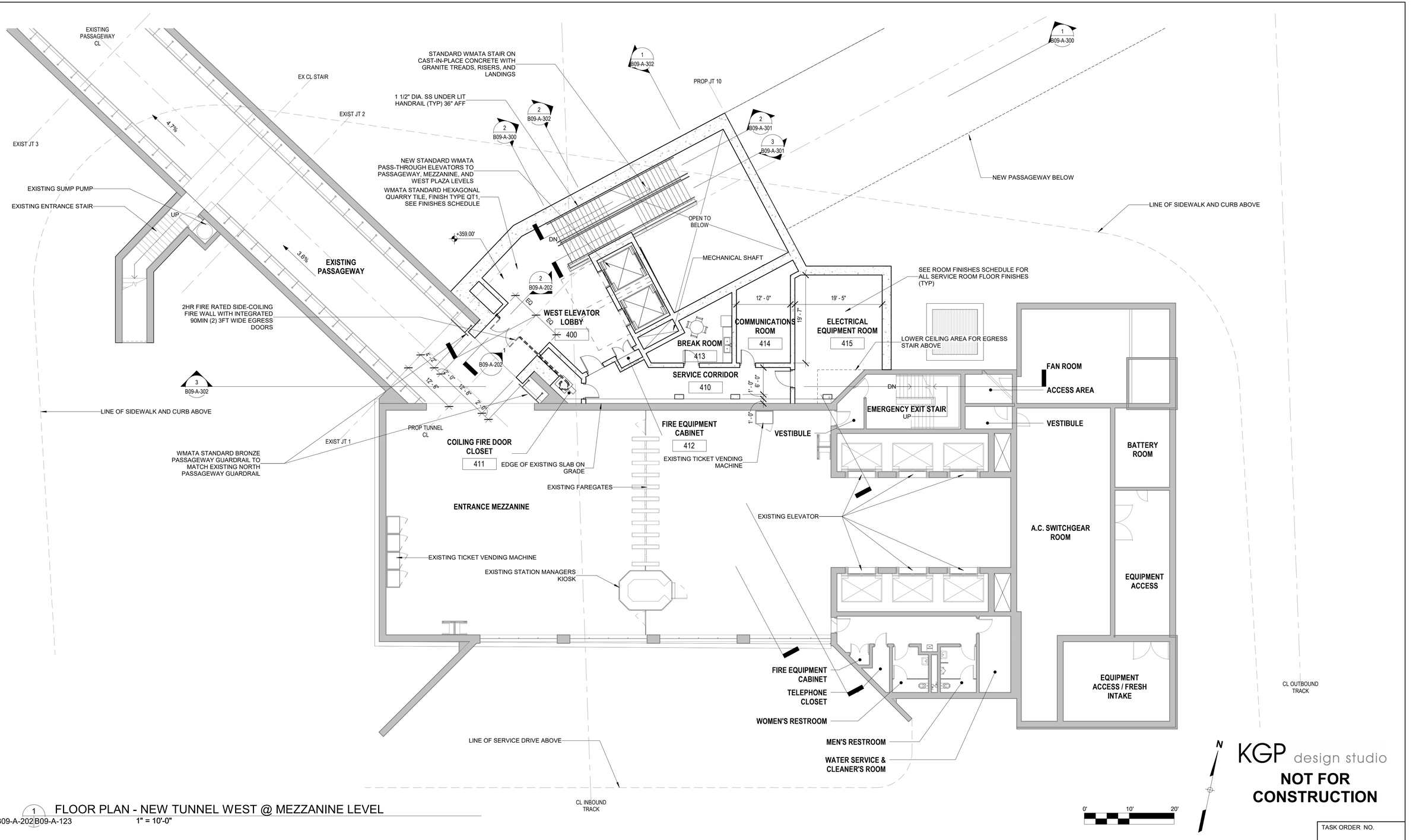
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - STREET LEVEL PLAZA EAST

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-122	56 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - NEW TUNNEL WEST @ MEZZANINE LEVEL
B09-A-202 B09-A-123 1" = 10'-0"

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
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		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

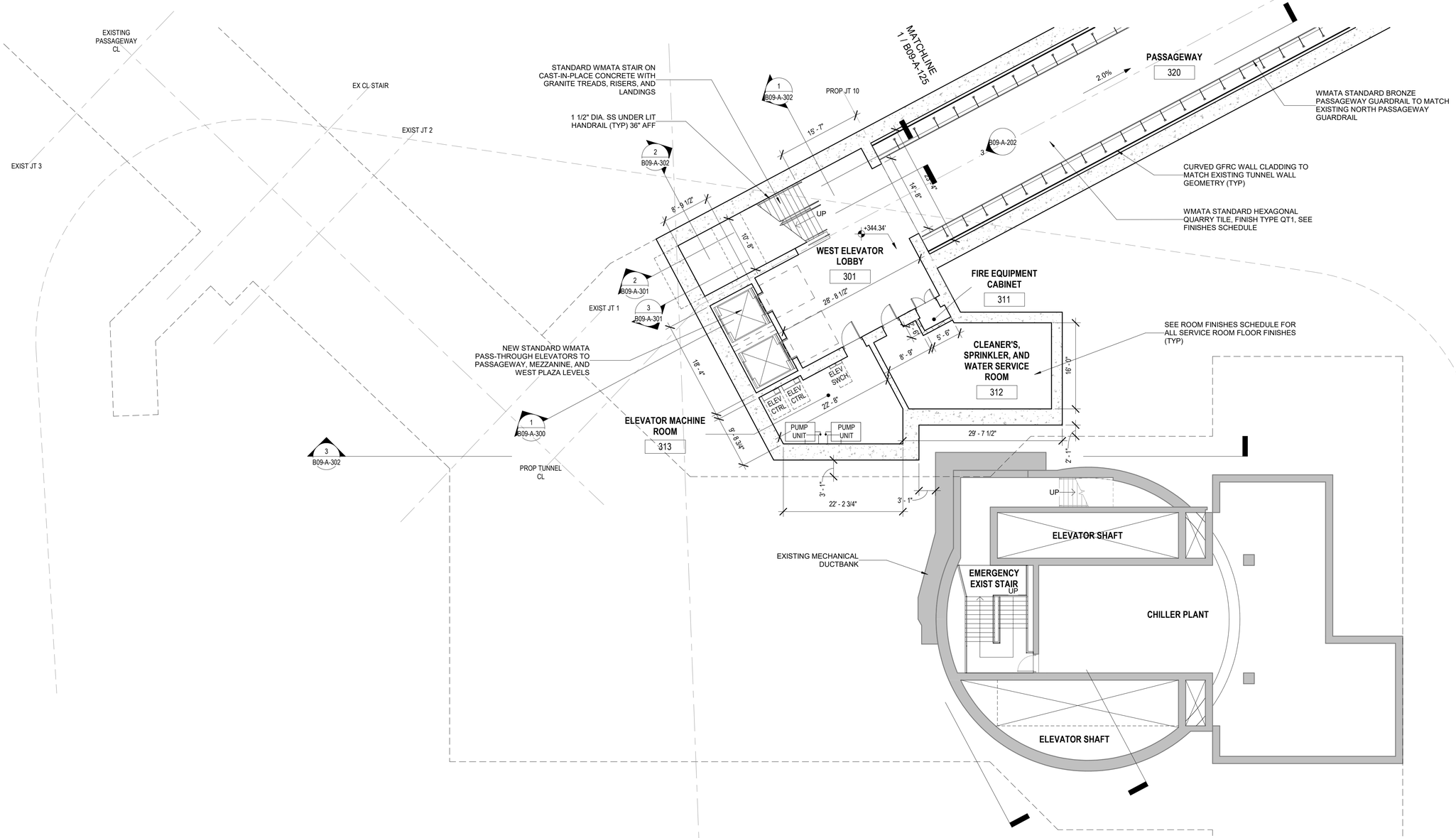
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - NEW TUNNEL WEST @ MEZZANINE

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-123	57 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - NEW TUNNEL WEST @ TUNNEL LEVEL
B09-A-202 B09-A-124 1" = 10'-0"

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

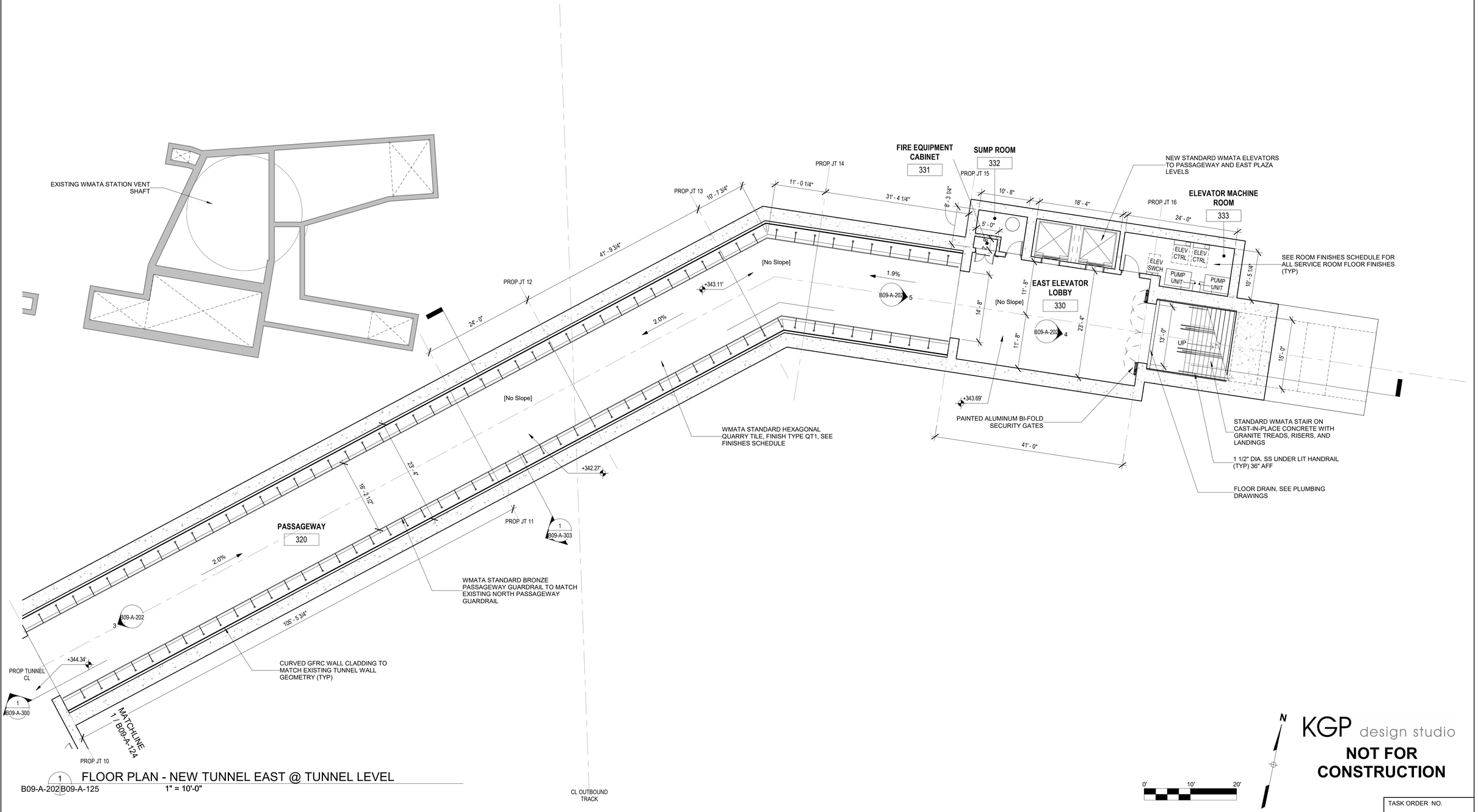
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - NEW TUNNEL WEST @ TUNNEL LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-124	58 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 FLOOR PLAN - NEW TUNNEL EAST @ TUNNEL LEVEL
B09-A-202 B09-A-125 1" = 10'-0"

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NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
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		DATE
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		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

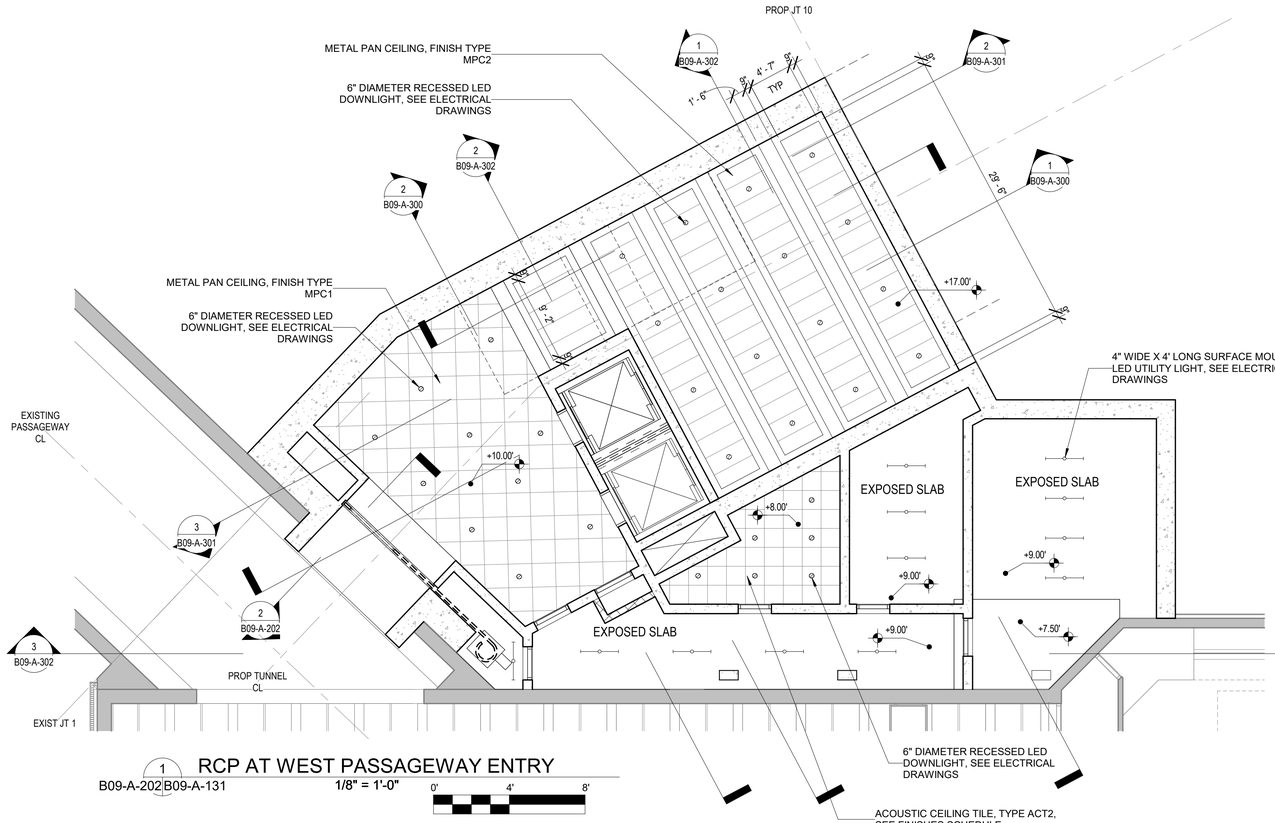
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

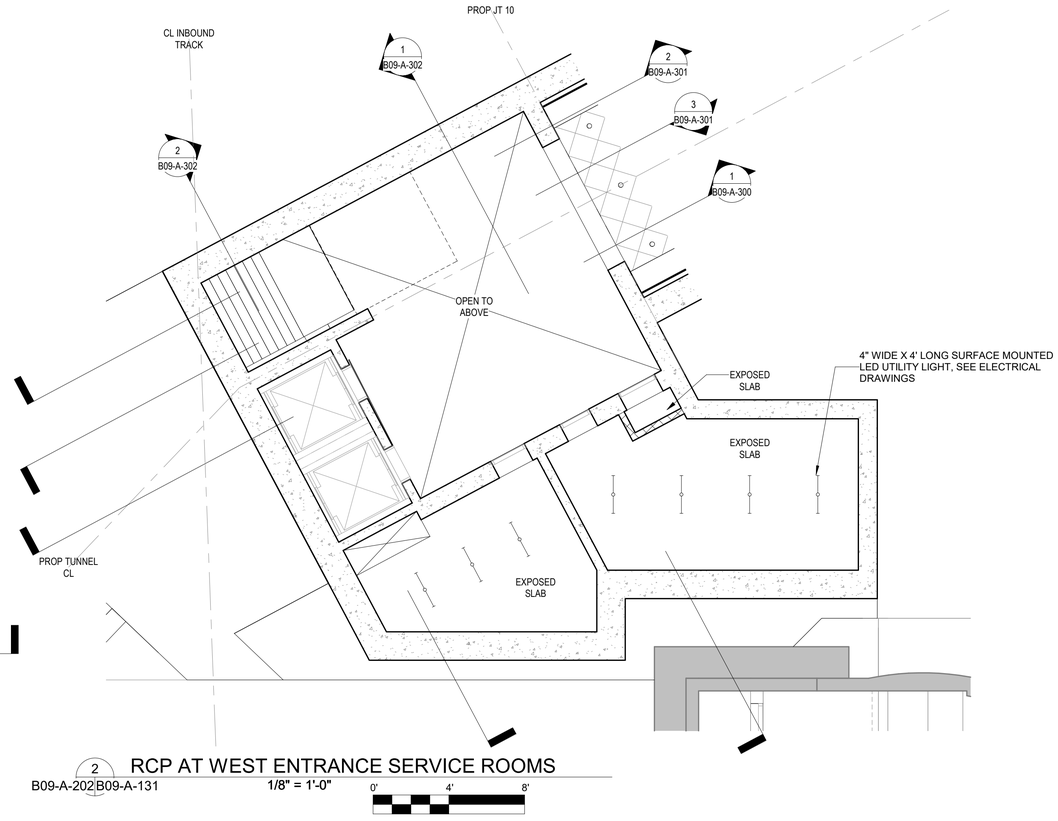
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
FLOOR PLAN - NEW TUNNEL EAST @ TUNNEL LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-125	59 OF 183

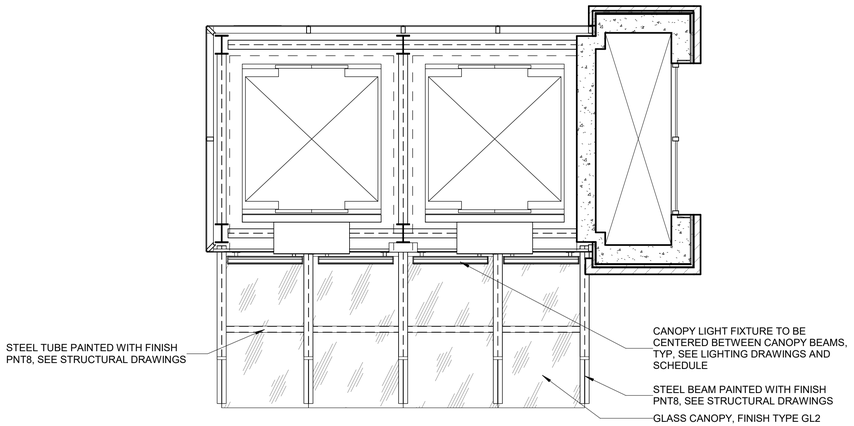
Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 RCP AT WEST PASSAGEWAY ENTRY
B09-A-202 B09-A-131 1/8" = 1'-0"



2 RCP AT WEST ENTRANCE SERVICE ROOMS
B09-A-202 B09-A-131 1/8" = 1'-0"



3 RCP AT TYPICAL EAST AND WEST ELEVATORS
B09-A-202 B09-A-131 1/4" = 1'-0"

GENERAL RCP NOTES:

1. ALL RECESSED LIGHTS ARE TO BE CENTERED ON CEILING TILES.
2. ALL CEILING HEIGHTS ARE ABOVE FINISHED FLOOR.

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TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
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		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

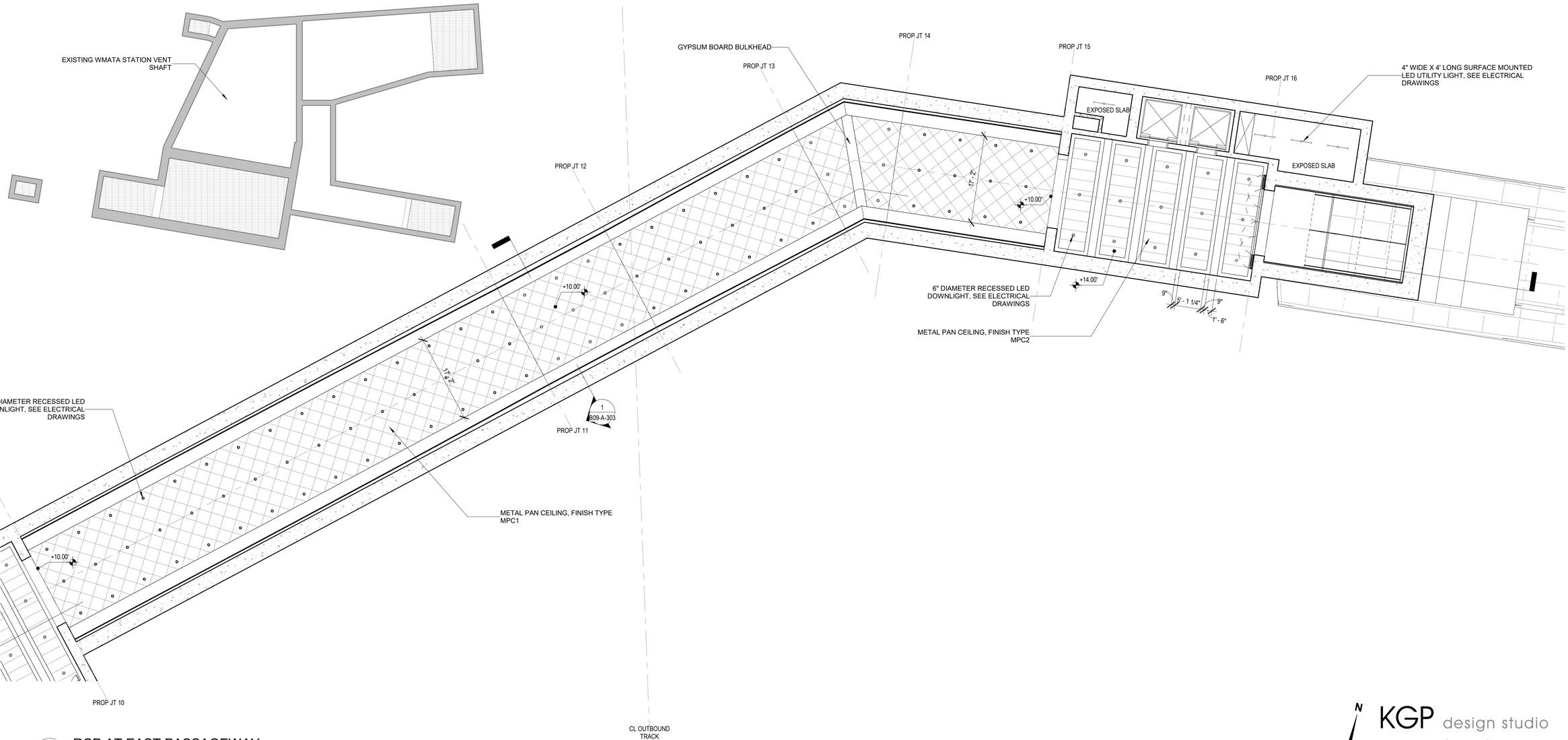
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
RCP AT WEST ENTRY

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-A-131	60 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 RCP AT EAST PASSAGEWAY
B09-A-202 B09-A-132 1" = 10'-0"

GENERAL RCP NOTES:

1. ALL RECESSED LIGHTS ARE TO BE CENTERED ON CEILING TILES.
2. ALL CEILING HEIGHTS ARE ABOVE FINISHED FLOOR.

0' 10' 20'

N

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TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

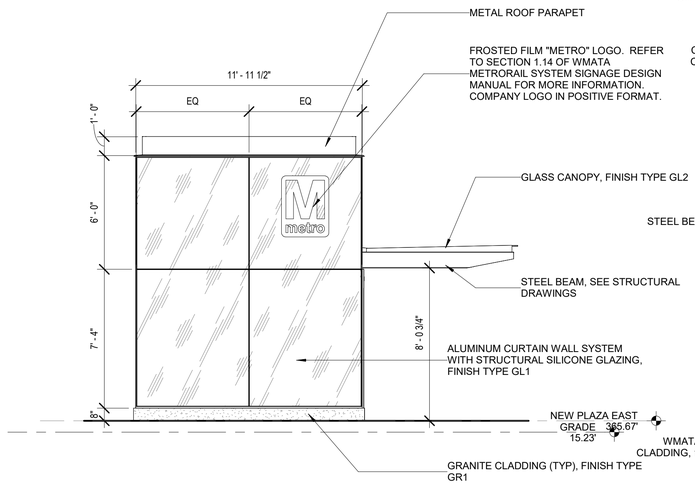
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

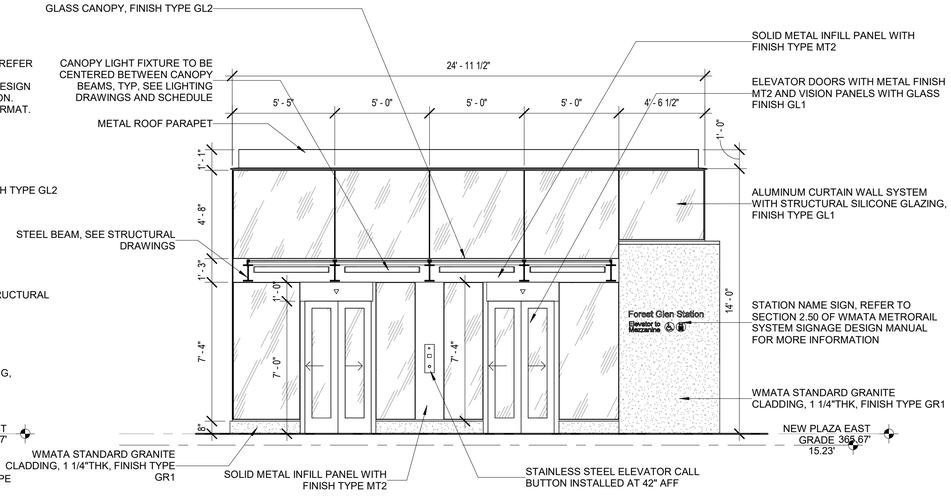
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
RCP AT EAST ENTRY

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-A-132	61 OF 183

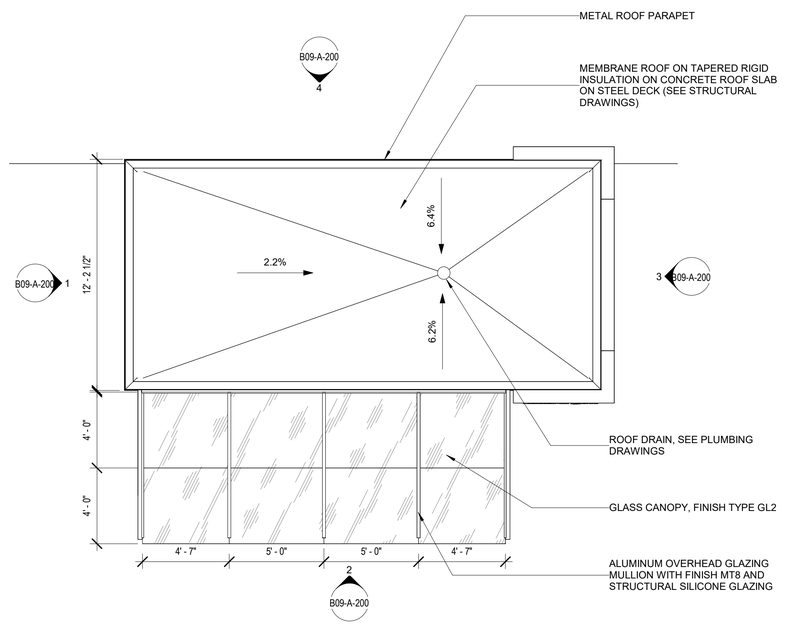
Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



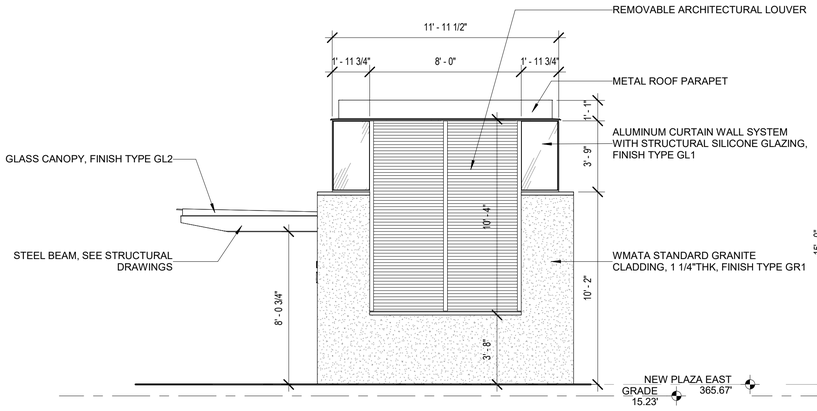
1 ELEVATION AT NEW ELEVATOR - LEFT SIDE
B09-A-200 B09-A-200 1/4" = 1'-0"



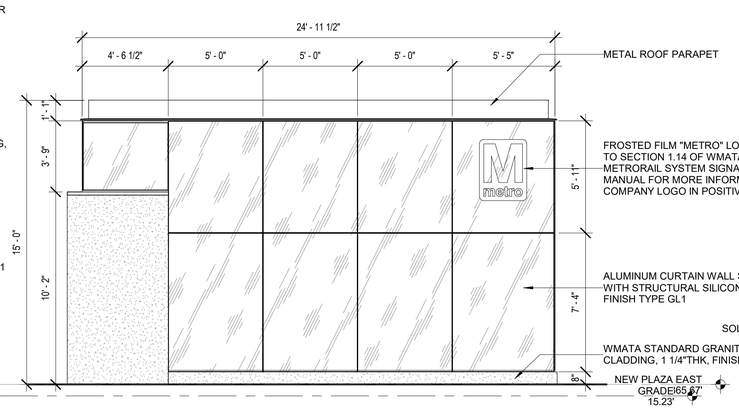
2 ELEVATION AT NEW ELEVATOR - FRONT
B09-A-200 B09-A-200 1/4" = 1'-0"



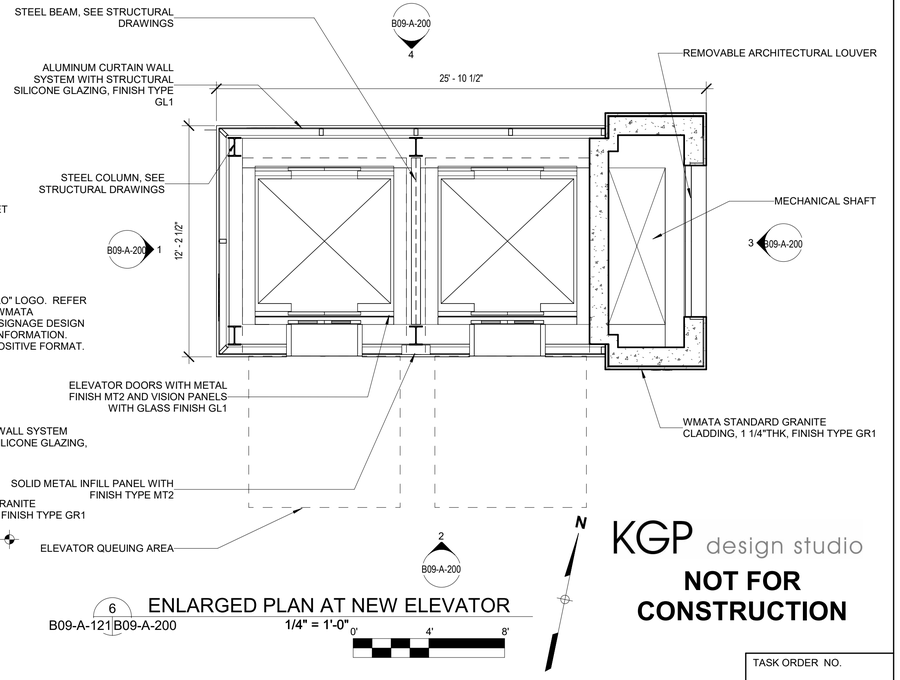
5 ENLARGED ROOF PLAN AT ELEVATOR
B09-A-200 1/4" = 1'-0"



3 ELEVATION AT NEW ELEVATOR - RIGHT SIDE
B09-A-200 B09-A-200 1/4" = 1'-0"



4 ELEVATION AT NEW ELEVATOR - BACK
B09-A-200 B09-A-200 1/4" = 1'-0"



6 ENLARGED PLAN AT NEW ELEVATOR
B09-A-121 B09-A-200 1/4" = 1'-0"

N

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TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

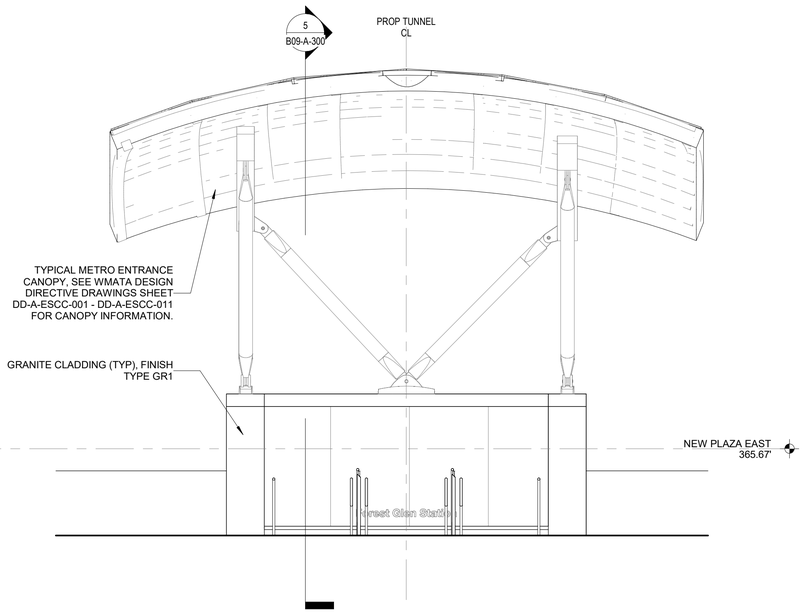
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

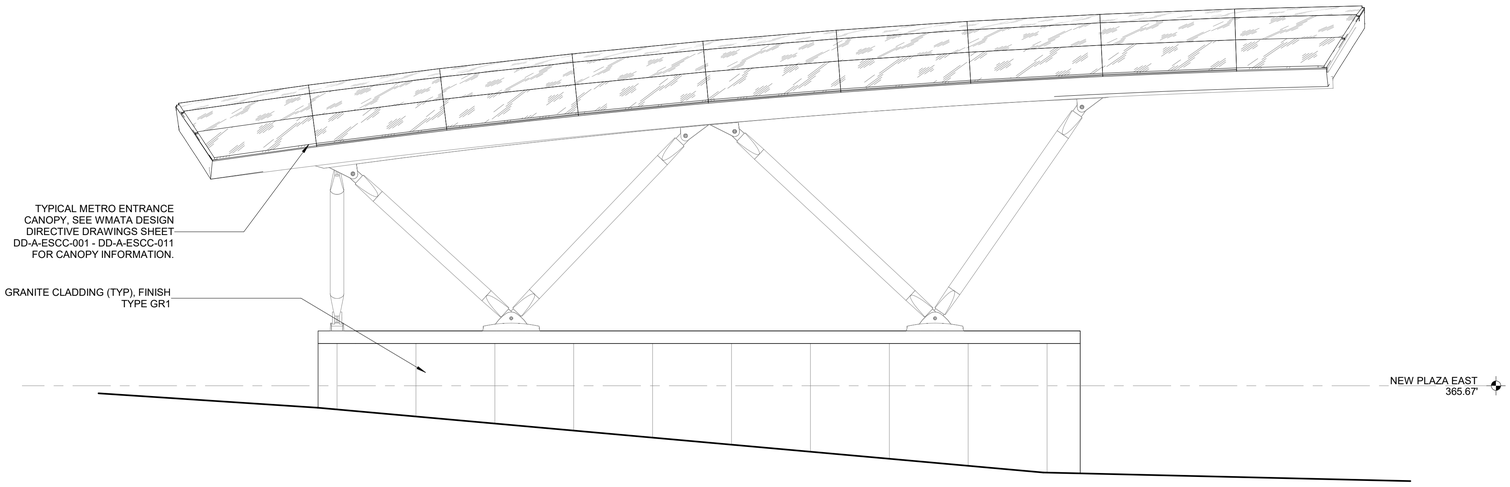
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
ELEVATIONS AT NEW ELEVATOR

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-A-200	62 OF 183

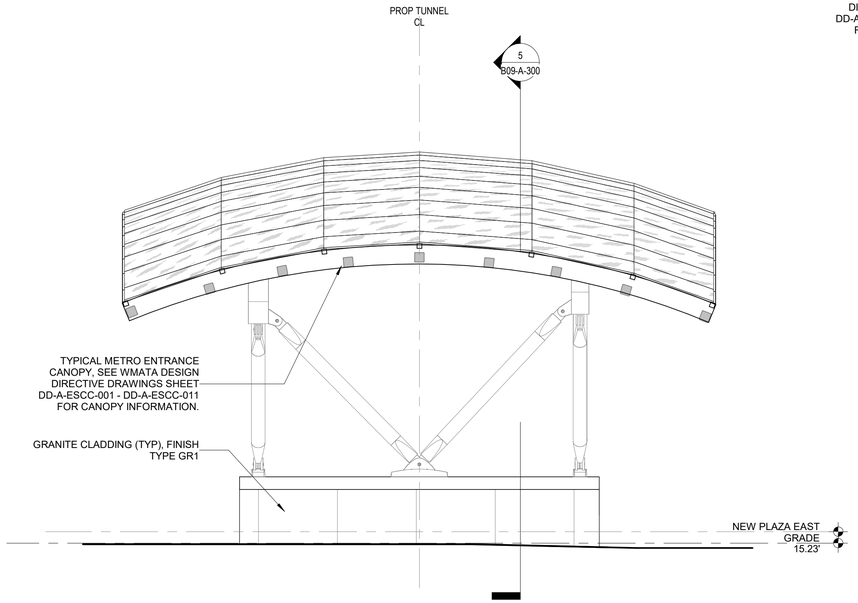
Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



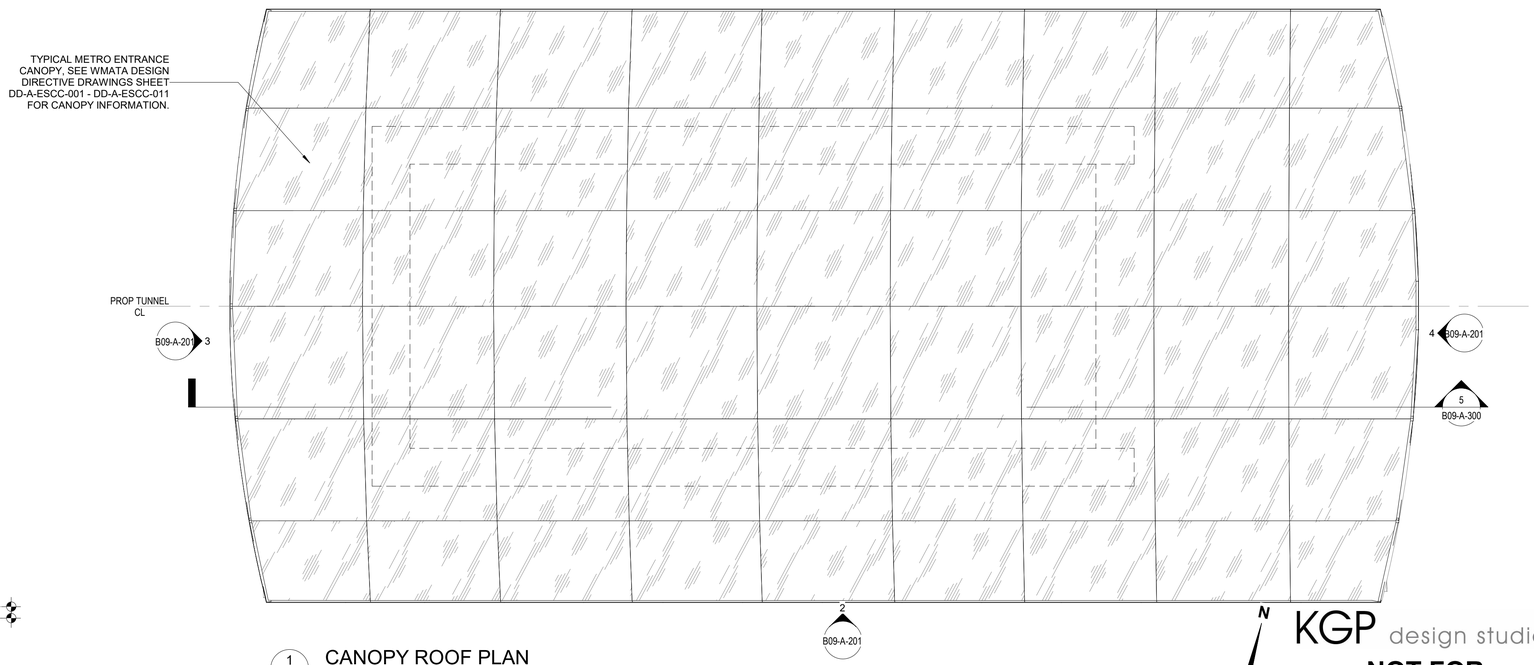
4 ELEVATION AT CANOPY FRONT
B09-A-201 B09-A-201 1/4" = 1'-0"



2 SIDE ELEVATION AT CANOPY
B09-A-201 B09-A-201 1/4" = 1'-0"



3 ELEVATION AT CANOPY BACK
B09-A-201 B09-A-201 1/4" = 1'-0"



1 CANOPY ROOF PLAN
B09-A-122 B09-A-201 1/4" = 1'-0"

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NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
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		DATE
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APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

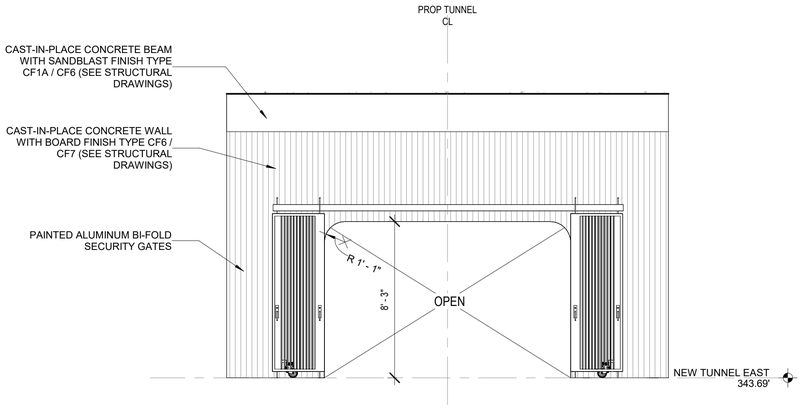
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

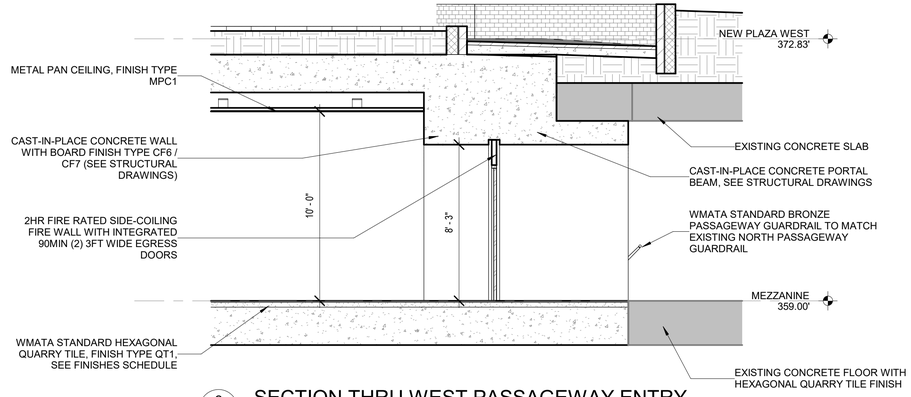
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
CANOPY ROOF PLAN & ELEVATIONS

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-A-201	63 OF 183

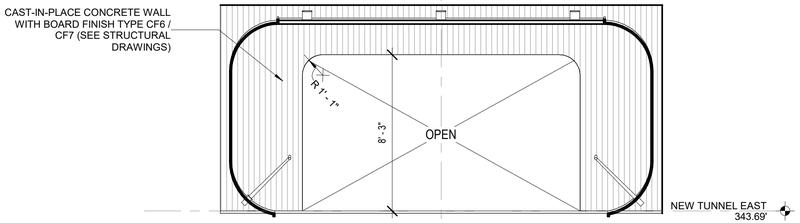
Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



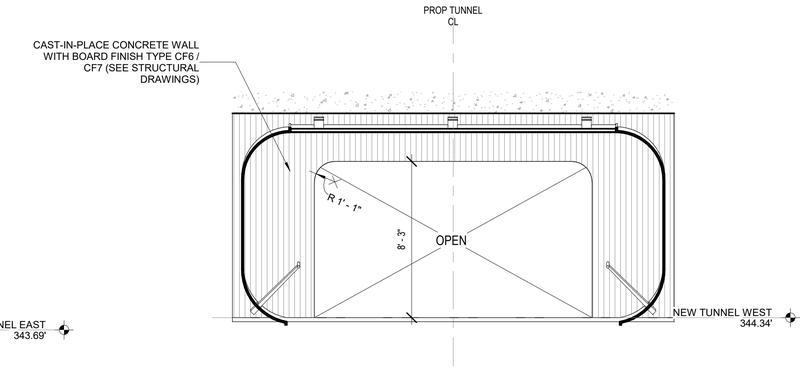
4 ELEVATION AT EAST ENTRANCE STAIR PORTAL
B09-A-125 B09-A-202 1/4" = 1'-0"



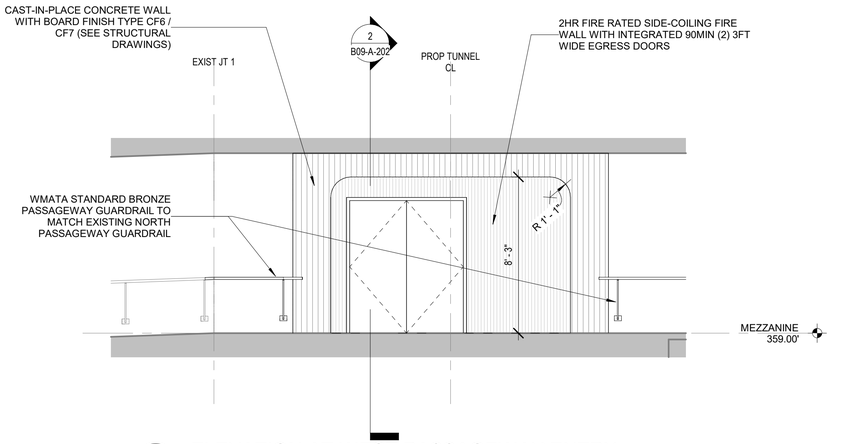
2 SECTION THRU WEST PASSAGEWAY ENTRY
B09-A-123 B09-A-202 1/4" = 1'-0"



5 ELEVATION AT EAST TUNNEL ENTRY PORTAL
B09-A-125 B09-A-202 1/4" = 1'-0"



3 ELEVATION AT WEST TUNNEL PORTAL
B09-A-124 B09-A-202 1/4" = 1'-0"



1 ELEVATION AT WEST PASSAGEWAY ENTRY
B09-A-123 B09-A-202 1/4" = 1'-0"

KGP design studio

NOT FOR CONSTRUCTION

0' 4' 8'

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

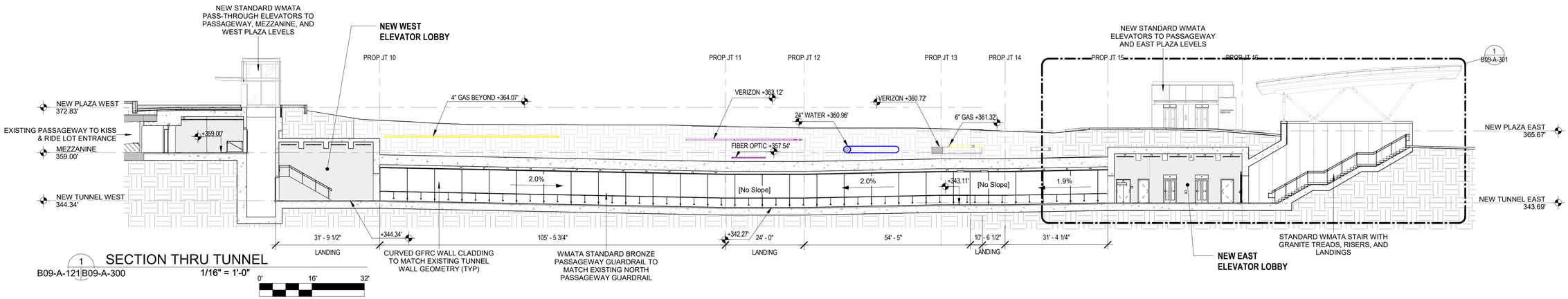
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
INTERIOR ELEVATIONS

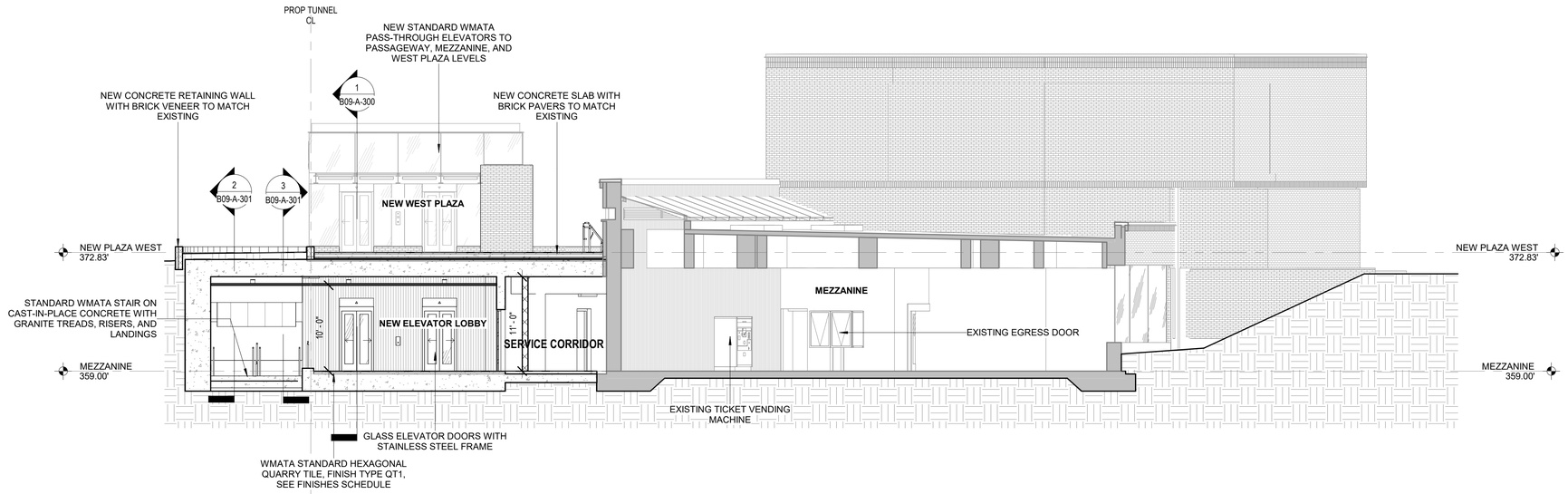
SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-A-202	64 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



1 SECTION THRU TUNNEL
B09-A-121 B09-A-300 1/16" = 1'-0"

0' 16' 32'



2 CROSS SECTION THRU WEST PASSAGEWAY ELEVATOR LOBBY
B09-A-121 B09-A-300 1/8" = 1'-0"

0' 8' 16'

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DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
SECTIONS

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-A-300	65 OF 183

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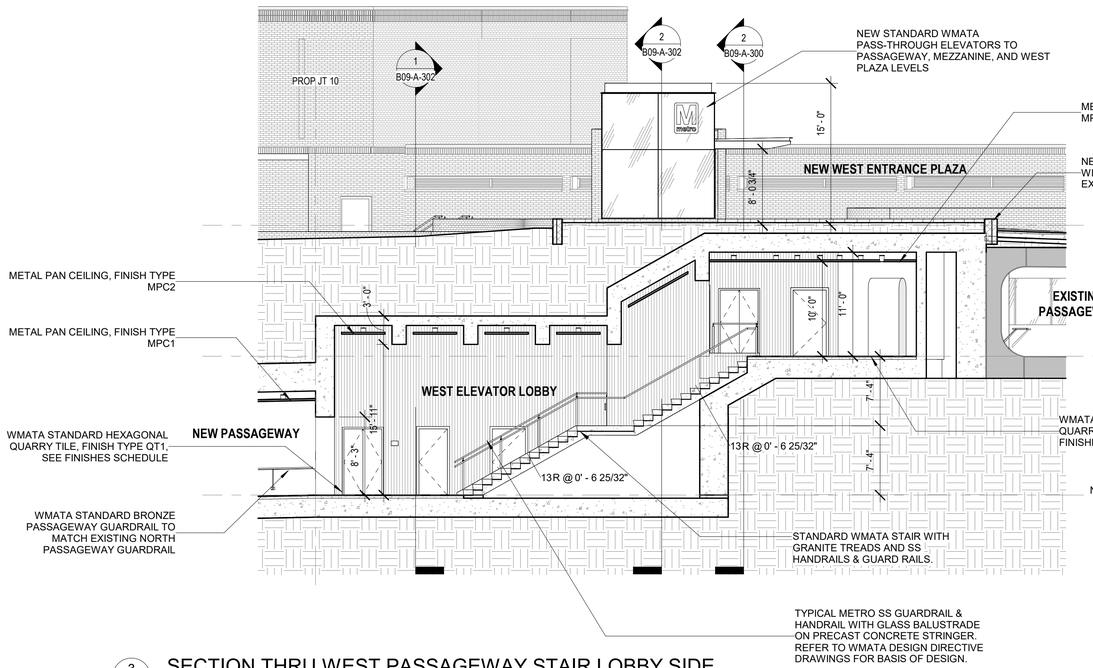
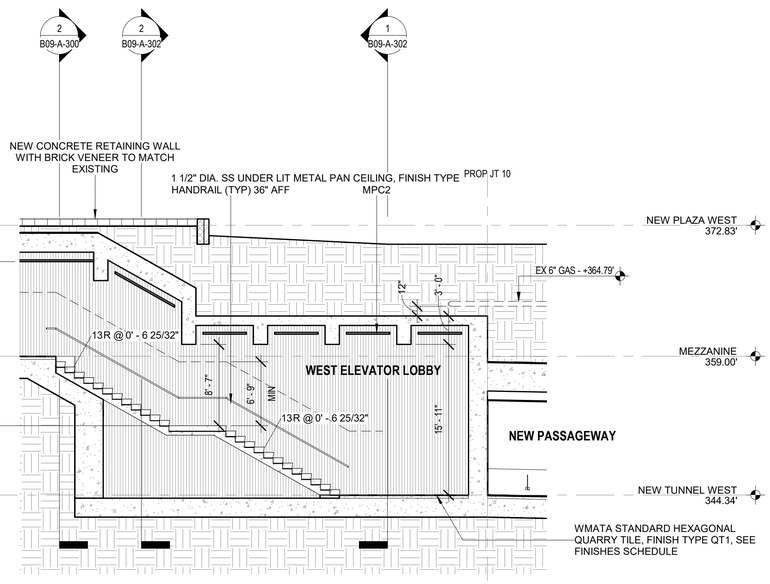
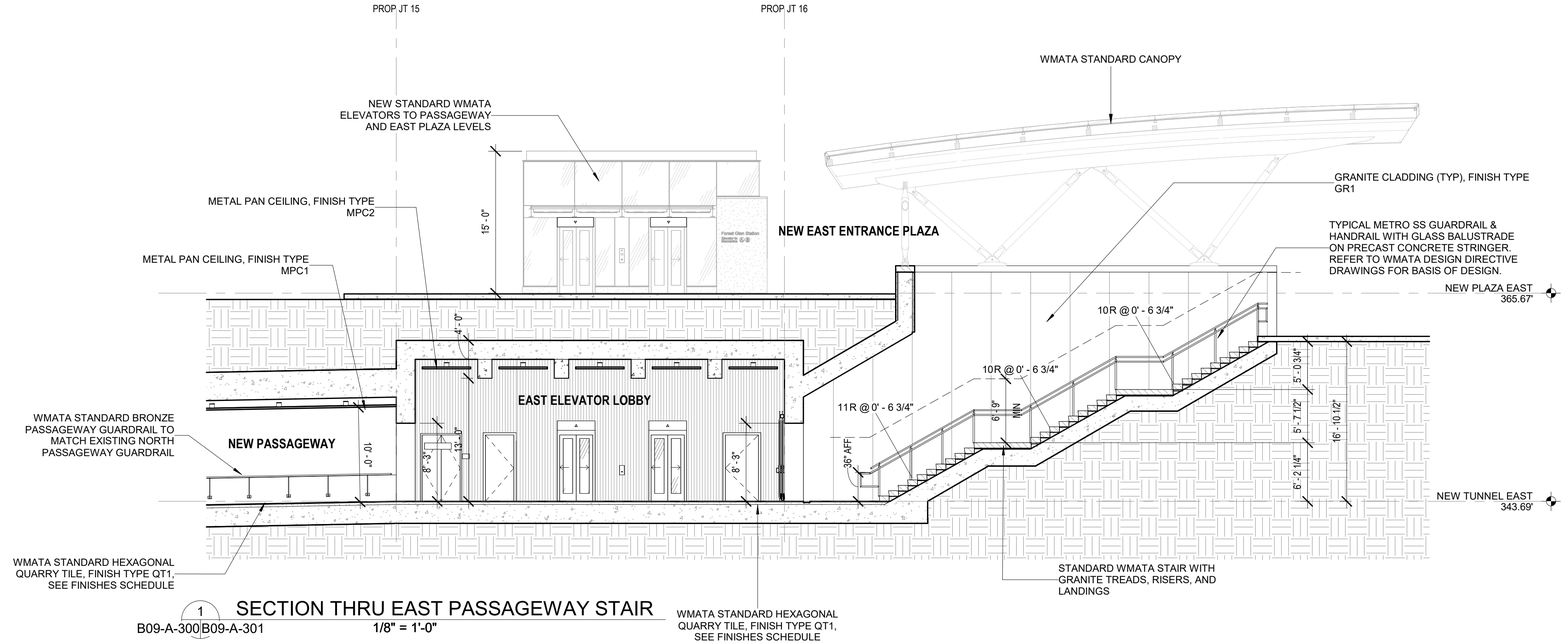


3 SECTION THRU WEST PASSAGEWAY STAIR LOBBY SIDE
B09-A-121 B09-A-301 1/8" = 1'-0"



2 SECTION THRU WEST PASSAGEWAY STAIR WALL SIDE
B09-A-123 B09-A-301 1/8" = 1'-0"



1 SECTION THRU EAST PASSAGEWAY STAIR
B09-A-300 B09-A-301 1/8" = 1'-0"

KGP design studio

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0' 8' 16'

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
SECTIONS

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-A-301	66 OF 183

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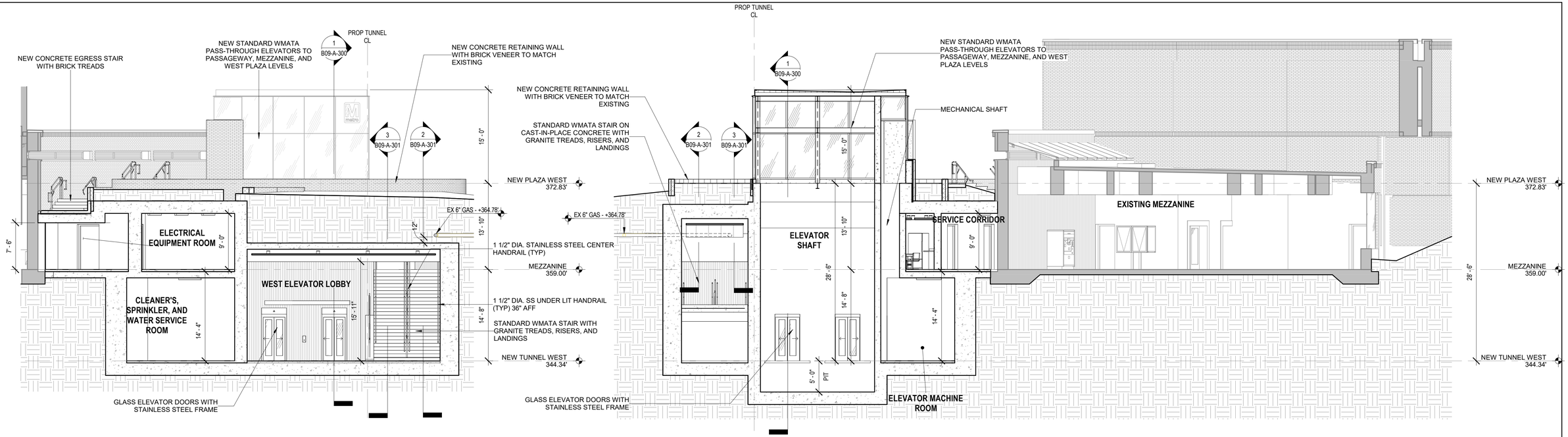
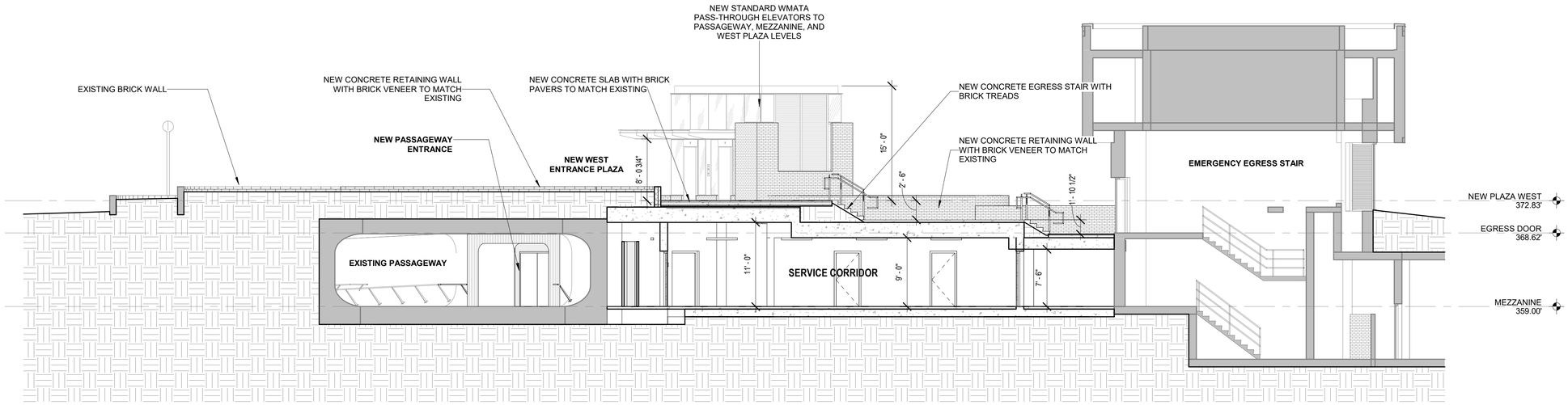


1 SECTION THRU WEST PASSAGEWAY ELEVATOR LOBBY TUNNEL LEVEL
B09-A-121 B09-A-302 1/8" = 1'-0"

2 CROSS SECTION THRU WEST PASSAGEWAY ELEVATOR
B09-A-121 B09-A-302 1/8" = 1'-0"



3 SECTION THRU STAIR AT PLAZA EGRESS
B09-A-121 B09-A-302 1/8" = 1'-0"

KGP design studio

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NUMBER	TITLE

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DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN ARCHITECTURAL SECTIONS

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-A-302	67 OF 183

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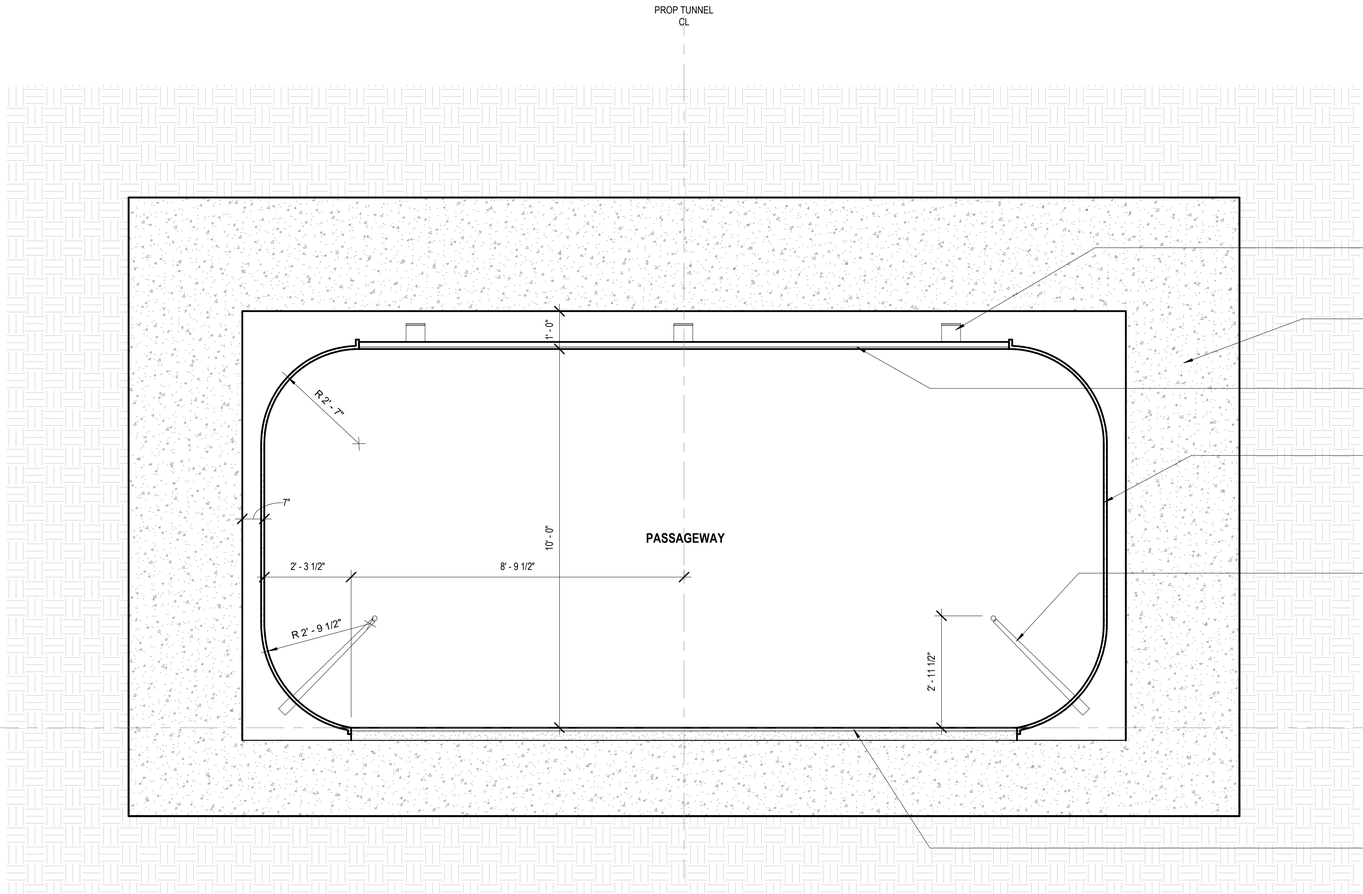

1 TYPICAL TUNNEL CROSS SECTION
B09-A-125 B09-A-303 1/2" = 1'-0"

0' 2' 4'

KGP design studio

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REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN ARCHITECTURAL SECTIONS

SCALE	DRAWING NO.	SHEET NO.
1/2" = 1'-0"	B09-A-303	68 OF 183

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ROOM FINISHES SCHEDULE

ROOM			FINISHES				
NUMBER	NAME	LEVEL	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISHES	COMMENTS
301	WEST ELEVATOR LOBBY	NEW TUNNEL WEST	QT1	CBR1	CF6 / CF7	CF1A / MPC2	CEILING HAS EXPOSED CONCRETE BEAMS
311	FIRE EQUIPMENT CABINET	NEW TUNNEL WEST	CF4C	-	-	-	
312	CLEANER'S, SPRINKLER, AND WATER SERVICE ROOM	NEW TUNNEL WEST	CF4B	-	-	-	
313	ELEVATOR MACHINE ROOM	NEW TUNNEL WEST	CF4A	-	-	-	
320	PASSAGEWAY	NEW TUNNEL WEST	QT1	-	CF1A / CF6	MPC1	
330	EAST ELEVATOR LOBBY	NEW TUNNEL EAST	QT1	-	CF6 / CF7	CF1A / MPC2	
331	FIRE EQUIPMENT CABINET	NEW TUNNEL EAST	CF4B	-	-	-	
332	SUMP ROOM	NEW TUNNEL EAST	CF4B	-	-	-	
333	ELEVATOR MACHINE ROOM	NEW TUNNEL EAST	CF4A	-	-	-	
333	CONDENSER YARD	NEW PLAZA WEST	CF4C	-	-	-	
400	WEST ELEVATOR LOBBY	MEZZANINE	QT1	-	CF6 / CF7	MPC1	
410	SERVICE CORRIDOR	MEZZANINE	CF4C	-	-	-	CEILING TO BE PAINT OF GYPSUM BOARD
411	COILING FIRE DOOR CLOSET	MEZZANINE	CF4C	-	-	-	
412	FIRE EQUIPMENT CABINET	MEZZANINE	CF4C	-	-	-	
413	BREAK ROOM	MEZZANINE	VCT1	RB1	WC1 / PNT3	ACT2	
414	COMMUNICATIONS ROOM	MEZZANINE	VCT2	RB1	PNT2	PNT2	FLOOR TO BE STATIC-DISSIPATIVE TILE, CEILING TO BE PAINT ON CONCRETE
415	ELECTRICAL EQUIPMENT ROOM	MEZZANINE	CF4A	-	-	-	

GENERAL ROOM FINISHES NOTES:

1. SEE WMATA DESIGN DIRECTIVE DRAWINGS SHEET DD-A-FIN-003 FOR ROOM FINISH INFORMATION.

MATERIALS & FINISHES SCHEDULE

FINISH	COMMENTS
ACOUSTIC CEILING TILE (ACT)	
ACT2	CERAMAGUARD, PRELUDE PLUS XL FIRE GUARD 15/16" EXPOSED TEE GRID, ARMSTRONG FLOORING, WHITE
CERAMIC TILE (CT)	
CT1	UNGLAZED QUARRY TILE, #507 PURITAN GRAY, METROPOLITAN CERAMICS
CTT1	CERAMIC TRANSITION TILE, #507 PURITAN GRAY (Q8485), METROPOLITAN CERAMICS
CERAMIC TILE BASE (CTB)	
CTB1	FLORIDA TILE, CONTINENT, DELTA HAZE #29914, COVE BASE
CERAMIC TILE WALL (CTW)	
CTW1	FLORIDA TILE, CONTINENT, DELTA HAZE #29914, 12" X 24", RUNNING BOND PATTERN
CONCRETE BASE REVEAL (CBR)	
CBR1	CONCRETE BASE REVEAL, SEE DRAWING
CONCRETE FINISHES (CF)	
CF1A	FORM FINISH - SMOOTH (FIBERGLASS, PLASTIC, COATED PLYWOOD, STEEL, OR HARDBOARD FORMS)
CF1B	FORM FINISH - ROUGH (UNCOATED PLYWOOD)
CF2	WET RUBBED FINISH
CF3	BROOMED FINISH
CF4A	STEEL TROWELED FINISH
CF4B	STEEL TROWELED FINISH W/ EPOXY COAT
CF4C	STEEL TROWELED FINISH W/ SEALER
CF5	WOOD FLOAT FINISH
CF6	SANDBLAST SEALER FINISH
CF7	BOARD FORMED - NATURAL BOARD FINISH (4" VERTICAL BOARD FORMS, SEE DETAIL 1)
CF8	ABRASIVE AGGREGATE FINISH
GLASS (GL)	
GL1	LAMINATED HEAT-STRENGTHENED FLOAT GLASS, MIN. 9/16" THK, CLEAR
GL2	LAMINATED HEAT-STRENGTHENED FLOAT GLASS, MIN. 9/16" THK, CLEAR WITH FRITT ON INNER GLASS LAYER

MATERIALS & FINISHES SCHEDULE

FINISH	COMMENTS
GRANITE (GR)	
GR1	MT. AIRY WHITE - THERMAL FINISH
GR3	MT. AIRY WHITE - HONED DULL SHEEN
LAMINATE PANELS (LP)	
LP1	FACADE / CEILING INTERIOR FACES - HIGH-PRESSURE LAMINATE PANELS (TBD)
LP2	FACADE EXTERIOR FACES - HIGH-PRESSURE LAMINATE PANELS (TBD) - COLOR 1
LP3	FACADE EXTERIOR FACES - HIGH-PRESSURE LAMINATE PANELS (TBD) - COLOR 2
METAL (MT)	
MT1	STAINLESS STEEL WITH #4 BRUSHED FINISH
MT2	STAINLESS STEEL WITH #4 BRUSHED FINISH (FOR ELEVATOR CLADDING)
MT3	GALVANIZED STEEL
MT4	DARK BRONZE
MT5	TRAIN ROOM ELEVATOR - STEEL WITH FINISH TO MATCH EXISTING ELEVATOR
MT6	CURTAIN WALL MULLIONS - ALUMINUM WITH DURANAR SUNSTORM ARCADIA SILVER (UC70123F)
MT7	HEADHOUSE MISC. METALS - ALUMINUM WITH DURANAR SUNSTORM ARCADIA SILVER (UC70123F)
MT8	METAL COLUMN COVER, COLOR TBD
METAL PAN CEILING (MPC)	
MPC1	30" X 30" METAL PAN CEILING WITH CONCEALED METALWORKS TORSION SPRINT AND METAL SUSPENSION SYSTEM, WHITE
MPC2	2'-WIDE METAL PAN CEILING WITH CONCEALED TORSION SPRING AND METAL SUSPENSION SYSTEM AND PERIMETER TRIM, LENGTH TO FOLLOW DRAWINGS, WHITE
PAINT (PNT)	
PNT1	METRO BROWN (FEDERAL STANDARD COLOR #20040)
PNT2	WHITE EGGSHELL
PNT3	SHERWIN WILLIAMS (SW7551) GREEK VILLA (BREAKROOM INTERIOR)
PNT4	SHERWIN WILLIAMS (SW7015) REPOSE GRAY (MEDICAL CENTER EGRESS DOORS)
PNT5	SHERWIN WILLIAMS (SW7067) CITYSCAPE (ELEVATOR HEADHOUSE STEEL PAINT)
PNT6	SHERWIN WILLIAMS (SW7643) PUSSY WILLOW (POTOMAC YARD COLUMN PAINT)
PNT7	BENJAMIN MOORE (HC-171) WICKHAM GRAY (POTOMAC YARD ROOF INTERIOR PAINT)

MATERIALS & FINISHES SCHEDULE

FINISH	COMMENTS
PNT8	WMATA CANOPY PAINT TO MATCH MT6 (MEDICAL CENTER ELEVATOR HEADHOUSE DOORS - BONDPLEX ALUMINUM B71S200)
PNT9	BLACK
PNT10	SHERWIN WILLIAMS (SW4081) SAFETY RED
PNT11	SHERWIN WILLIAMS (SW4084) SAFETY YELLOW
PLASTIC LAMIATE (PLAM)	
PLAM1	ASTRO STRANDZ 4940K-18, WILSONART
QUARRY TILE (QT)	
QT1	WMATA STANDARD HEXAGONAL QUARRY TILE WITH WIRE-CUT FINISH, TILE SIZE TO MATCH EXISTING
ROOFING (RF)	
RF1	STANDING SEAM METAL ROOFING - MORIN SLR 16" 22GA GALVALUME STEEL WITH FINISH (TBD)
RUBBER BASE (RB)	
RB1	#174 SMOKE PINNACLE SERIES TS 4", ROPPE
SOLID SURFACE COUNTERTOP (SSC)	
SSC1	HI-MACS, COLOR G101 CRYSTAL BEIGE, LG HAUSYS
VINYL COMPOSITION TILE (VCT)	
VCT1	MIGRATIONS BBT 12"X12", T3501 PLATINUM GRAY, ARMSTRONG
VCT2	EXCELON SDT 12"X12", 51956 FOSSIL GRAY, ARMSTRONG
WAINSCOTT (WC)	
WC1	IRISH LINEN COLOR #262 DRIFTWOOD, CS/ACROVYN
WOVEN METAL MESH (WM)	
WM1	ELLIPSE 2
WM2	ELLIPSE 14
WM3	DELTA 1

GENERAL MATERIALS & FINISHES NOTES:

1. SEE WMATA DESIGN DIRECTIVE DRAWINGS SHEET DD-A-FIN-002 FOR CONCRETE FINISH INFORMATION.
2. FOR CONCRETE FINISH CF7, MATCH EXISTING BOARD FORMED PATTERN WALL RIBS PATTERN FOR LOCATION, SIZE, AND SPACING.

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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL
ROOM, MATERIALS & FINISHES SCHEDULE

SCALE	DRAWING NO.	SHEET NO.
	B09-A-601	69 OF 183

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SIGNAGE TYPE KEY

SIGN LOCATION NUMBER	XXX-01		
SIGN TYPE	A04-01		
ILLUMINATED/ NON-ILLUMINATED	N	W	MOUNTINGS

LOCATION NAME

EP1	EAST PASSAGEWAY LEVEL 1
S	SURFACE
WP1	WEST PASSAGEWAY LEVEL 1
WP2	WEST PASSAGEWAY LEVEL 2

SIGN TYPE

ADA.02	ELEVATOR DIRECTIONAL SIGN WITH BRAILLE
ADA.03	STATION ENTRANCE PYLON TACTILE AND BRAILLE SIDE
D01	HAZARD SIGNS
P.B.	SITE PYLON SIGNS
RW-ADA.03	DOOR IDENTIFICATION SIGNS WITH BRAILLE
RWD.01	DOOR IDENTIFICATION SIGN - STATION ANCILLARY DOORS
W.04	DIRECTIONAL SIGN
W.05	ELEVATOR SIGN (ABOVE DOOR)

ILLUMINATION

N	NO
Y	YES

MOUNTING

C	CEILING
D	DOOR
F	FLOOR
W	WALL

SIGNAGE GENERAL NOTES

1	SIGNS ARE TO FOLLOW "MANUAL OF DESIGN CRITERIA (RELEASE 9)" BY WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY (WMATA)
2	SIGN LAYOUTS ARE TO FOLLOW WMATA "SIGNAGE STANDARDS MANUAL: STATION SIGNS", DRAFT 2008 UNLESS SUPERCEDED BY "WMATA METRORAIL SYSTEM, SIGNAGE DESIGN MANUAL", FEBRUARY 2014
3	SIGN LAYOUTS ARE TO FOLLOW 2010 AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES (ADAAG)

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NUMBER	TITLE

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
SIGNAGE KEY NOTES

SCALE	DRAWING NO.	SHEET NO.
	B09-AG-000	70 OF 183

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abcdefghijklmnopqrstuvxyz

1234567890 !@#”$%’&*();-:+,$

1 HELVETICA MEDIUM CHARACTERS
B09-AG-001 12" = 1'-0"

Metro Center Station

NORMAL TRACKING - ACCEPTABLE

Metro Center Station

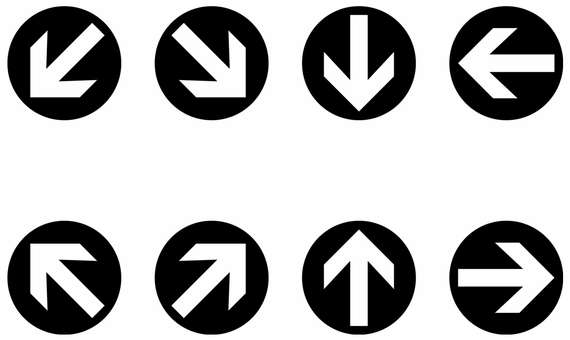
KERNING -NOT ACCEPTABLE

Metro Center Station

LETTER SPACING - NOT ACCEPTABLE

2 TYPE SPACING
B09-AG-001 12" = 1'-0"

3 STANDARD SYMBOLS
B09-AG-001 12" = 1'-0"



4 STD. METRO ARROW TEMPLATE
B09-AG-001 12" = 1'-0"

POSITIVE FORMAT

NEGATIVE FORMAT

5 WMATA METRO LOGO
B09-AG-001 6" = 1'-0"

Color	Name	PMS #	Federal Spec No.	Munsell No.	Opaque Vinyl	Reflective Vinyl	Transluscent Vinyl
	Metro Brown		Federal Spec No. 20040	Munsell No. 1.0Y 2.85/1.2			
	White			Munsell No. N9.5	3M 7725-10 Gloss White	3M 680-10 White	3M 3632 GPS-20 White
	Black			Munsell No. N 1.25	3M 7725-12 Black		
	Regulatory Red	PMS 185C		Munsell No. 7.5 R 3.75/14	3M- 7725-25 Red		
	Silver Line	PMS 443C					
	Yellow	PMS 109C		Munsell No. 5Y 8/12			
	Stonington Gray Structure paint		Benjamin Moore HC-170				
	OSHA Blue	PMS 2925C					

6 COLOR CHART
B09-AG-001 3" = 1'-0"

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B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
WMATA STANDARDS TEMPLATES & SYMBOLS

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-AG-001	71 OF 183

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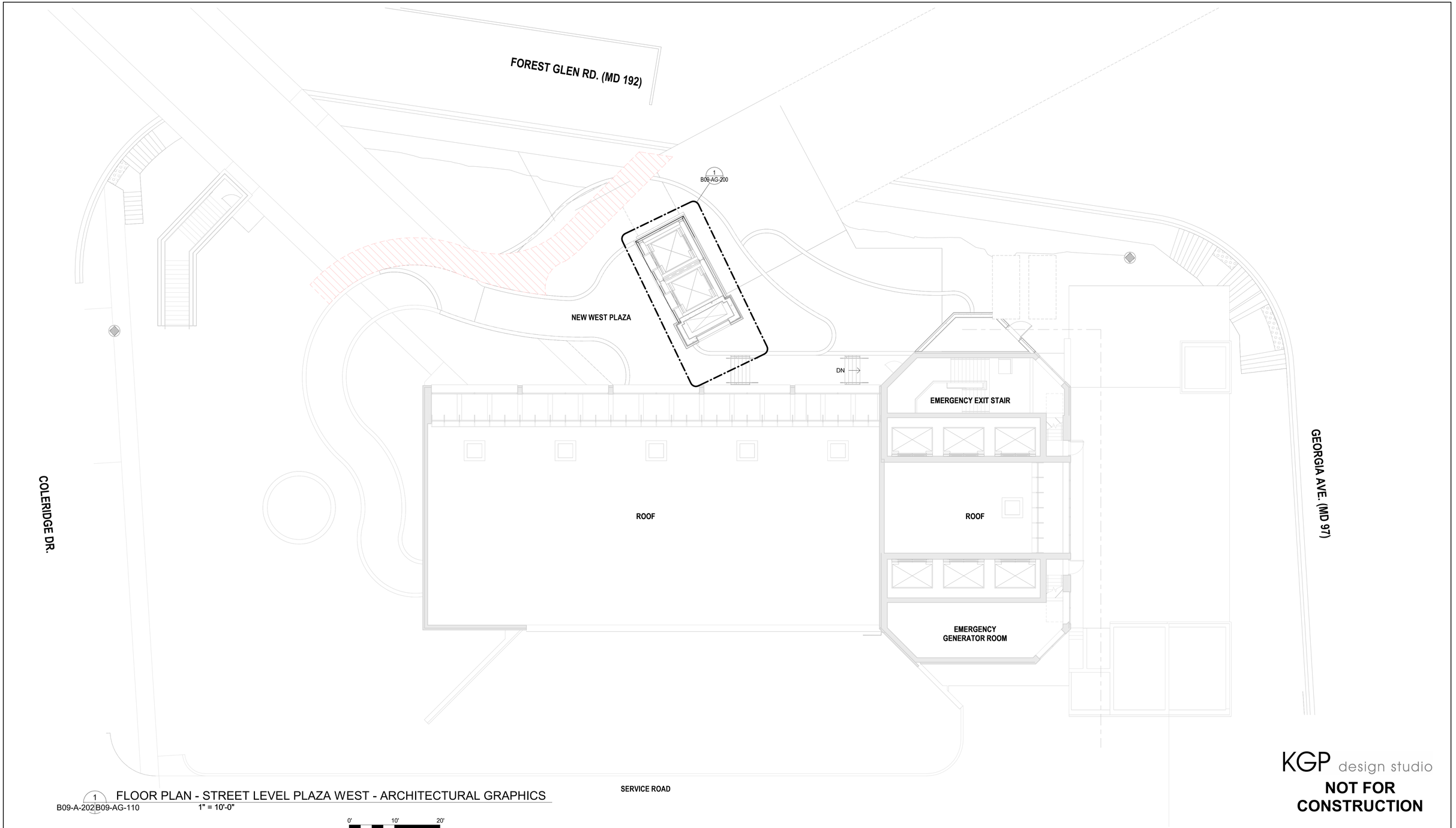

1 FLOOR PLAN - STREET LEVEL PLAZA WEST - ARCHITECTURAL GRAPHICS
B09-A-202 B09-AG-110 1" = 10'-0"

0' 10' 20'

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
PLAN - STREET LEVEL PLAZA WEST

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-AG-110	72 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

GEORGIA AVE. (MD 97)

FOREST GLEN RD. (MD 192)

ACCESSIBLE ENTRANCE AT FOREST GLEN RD

RED LINE FOREST GLEN STATION

SIGN TYPE ADA.03

SIGN TYPE ADA.02

M

Forest Glen Station

SIGN TYPE P.B

1 B09-AG-200

S-04 | ADA.03 | N W

S-03 | P.B | Y F

S-06 | ADA.02 | N W

S-05 | AL.01 | N W

NEW EAST PLAZA

17' - 0"

2 B09-AG-111

PROP TUNNEL CL

EQ EQ

5'-6"

Forest Glen Station

1 B09-AG-111 FLOOR PLAN - STREET LEVEL PLAZA EAST - ARCHITECTURAL GRAPHICS

1" = 10'-0"

0' 10' 20'

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

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REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
PLAN - STREET LEVEL PLAZA EAST

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-AG-111	73 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

Passageway to East Entrance

SIGN TYPE - W.04 - WP1-01

Please let persons with disabilities and seniors board first – Thank you

IN CASE OF FIRE ELEVATORS ARE OUT OF SERVICE

USE EXIT

Elevator Info: 202 962-1212

Shuttle Info: 202 962-1825

For immediate assistance press intercom button

SIGN TYPE - E.04

Forest Glen Station Kiss and Ride

SIGN TYPE - W.04 - WP1-15

4.7%

3.6%

PASSAGEWAY

Passageway to East Entrance

SIGN TYPE - W.04 - WP1-14

221
To Upper Level
Service Rooms

SIGN TYPE RW-ADA.03

100
To Upper Level
Service Rooms

SIGN TYPE - RWD.01

WP1-01 W.04 N C

WP1-15 W.04 N C

WP1-14 W.04 N C

WP1-16 E.04 N W

WP1-02 RW-ADA.03 N W

WP1-18 W.05 N W

WP1-02 ADA.02 N W

WP1-10 RWD.01 N D

WP1-11 RW-ADA.03 N W

WP1-13 RWD.01 N D

WP1-12 RW-ADA.03 N W

WP1-04 RW-ADA.03 N W

WP1-05 RWD.01 N D

WP1-03 RWD.01 N D

WP1-06 RW-ADA.03 N W

WP1-07 RWD.01 N D

WP1-08 RWD.01 N D

WP1-09 RW-ADA.03 N W

WP1-17 RWT.10 N D

DN

NEW PASSAGEWAY

BREAK ROOM

COMMUNICATIONS ROOM

ELECTRICAL EQUIPMENT ROOM

SERVICE CORRIDOR

COILING FIRE DOOR CLOSET

ENTRANCE MEZZANINE

DANGER

HIGH VOLTAGE

DANGER - HIGH VOLTAGE

DO NOT TOUCH
HIGH VOLTAGE EQUIPMENT

MAY SHOCK, BURN
OR CAUSE DEATH

SIGN TYPE - RWT.10

EMERGENCY EXIT STAIR

UP

VESTIBULE

FAN ROOM

ACCESS AREA

VESTIBULE

BATTERY ROOM

A.C. SWITCHGEAR ROOM

EQUIPMENT ACCESS

EQUIPMENT ACCESS / FRESH INTAKE

FIRE EQUIPMENT CABINET

TELEPHONE CLOSET

WOMEN'S RESTROOM

MEN'S RESTROOM

WATER SERVICE & CLEANER'S ROOM

KGP design studio

NOT FOR CONSTRUCTION

FLOOR PLAN - NEW TUNNEL WEST @ MEZZANINE LEVEL - ARCHITECTURAL GRAPHICS

1
B09-A-202 B09-AG-112

1" = 10'-0"

0' 10' 20'

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
PLAN - NEW TUNNEL WEST @ MEZZANINE

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-AG-112	74 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

Forest Glen Station

SIGN TYPE - W.04

WP1-09
W.04
N C

MATCHLINE 1 / B09-A-125

2.0%

WP2-11
CIS.04
N W
WP2-17
CIS.04
N W

WP2-10
CIS.02
N W

8' - 9 1/2"

UP

23' - 4"

EP1-01
ADA.02
N W

NEW PASSAGEWAY

WP2-07
RWD.01
N D

WP2-08
RW-ADA.03
N W

FIRE EQUIPMENT CABINET

Elevators to Forest Glen Rd

SIGN TYPE - W.05

WP1-16
E.04
N W

WP2-13	WP2-12
RW-ADA.03	RWD.01
N W	N D

CLEANER'S, SPRINKLER, AND WATER SERVICE ROOM

WP2-06	WP2-05
RW-ADA.03	RWD.01
N W	N D

ELEVATOR MACHINE ROOM

The following are strictly prohibited in the Metrorail system

No Smoking | No Eating or Drinking | No Dangerous or Flammable Items

No Audio/Video (without earphones) | No Animals (except service animals) | No Littering

It's the law. Violation is punishable by fine and/or jail.

SIGN TYPE - CIS.02

Report crime, emergencies or suspicious activity to the Metro Transit Police 202-962-2121

Reporte cualquier crimen, emergencia o actividad sospechosa a

SIGN TYPE - CIS.04

Please let persons with disabilities and seniors board first – Thank you

IN CASE OF FIRE ELEVATORS ARE OUT OF SERVICE

USE EXIT

Elevator Info: 202 962-1212

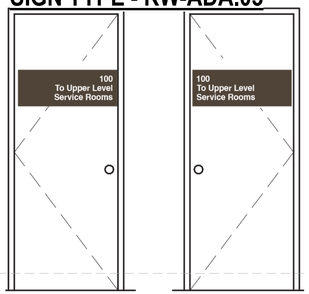
Shuttle Info: 202 962-1825

For immediate assistance press intercom button

SIGN TYPE - E.04

221
To Upper Level
Service Rooms

SIGN TYPE - RW-ADA.03



SIGN TYPE - RWD.01

3' - 1"

2' - 1"

UP

ELEVATOR SHAFT

EMERGENCY EXIST STAIR UP

CHILLER PLANT

ELEVATOR SHAFT

KGP design studio

NOT FOR CONSTRUCTION

1 B09-A-202 B09-AG-113

FLOOR PLAN - NEW TUNNEL WEST @ TUNNEL LEVEL - ARCHITECTURAL GRAPHICS

1" = 10'-0"

0' 10' 20'

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
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		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
PLAN - NEW TUNNEL WEST @ TUNNEL LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-AG-113	75 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

NEW PASSAGEWAY

Please let persons with disabilities and seniors board first – Thank you

IN CASE OF FIRE ELEVATORS ARE OUT OF SERVICE

USE EXIT

Elevator Info: 202 962-1212

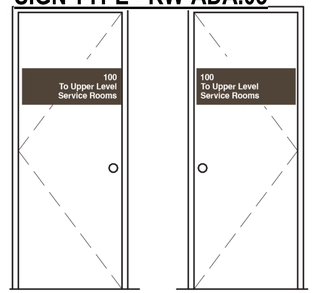
Shuttle Info: 202 962-1825

For immediate assistance press intercom button

SIGN TYPE - E.04

221
To Upper Level
Service Rooms

SIGN TYPE - RW-ADA.03



SIGN TYPE - RWD.01

Forest Glen Station

WP1-01 | W.04 | N | C

SIGN TYPE - W.04

Elevators to Forest Glen Rd

SIGN TYPE - W.05

Exit to Forest Glen Rd

WP1-06 | W.04 | N | C

SIGN TYPE - W.04

EP2-07 | RWD.01 | N | D

EP2-06 | RW-ADA.03 | N | W

EP2-03 | RWD.01 | N | D

EP2-02 | RW-ADA.03 | N | W

EP1-09 | E.04 | N | W

WP1-08 | ADA.02 | N | W

EP1-09 | E.04 | N | W

EP2-04 | RWD.01 | N | D

EP2-05 | RW-ADA.03 | N | W

UP

WP1-07 | CIS.02 | N | W

WP1-10 | CIS.04 | N | W

CIS.02

CIS.04

KGP design studio

NOT FOR CONSTRUCTION

1
B09-A-202

FLOOR PLAN - NEW TUNNEL EAST @ TUNNEL LEVEL - ARCHITECTURAL GRAPHICS

B09-AG-114

1" = 10'-0"

0' 10' 20'

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

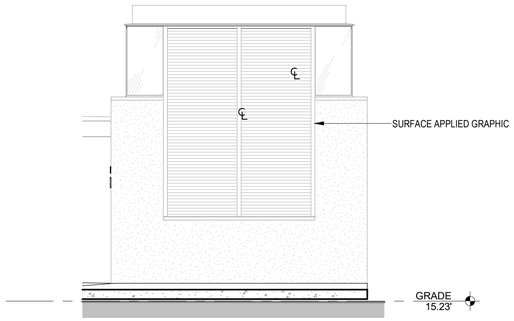
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
PLAN - NEW TUNNEL EAST @ TUNNEL LEVEL

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-AG-114	76 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

2 ELEVATION AT NEW ELEVATOR - FRONT - ARCH GRAPHICS
B09-AG-200 1/4" = 1'-0"

0' 4' 8'

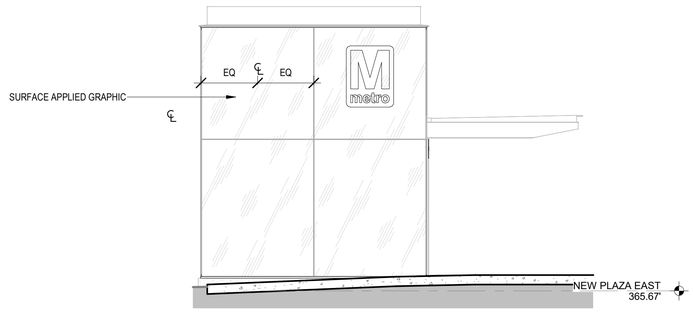


4 ELEVATION AT NEW ELEVATOR - RIGHT SIDE - ARCH GRAPHICS
B09-AG-200 1/4" = 1'-0"

0' 4' 8'

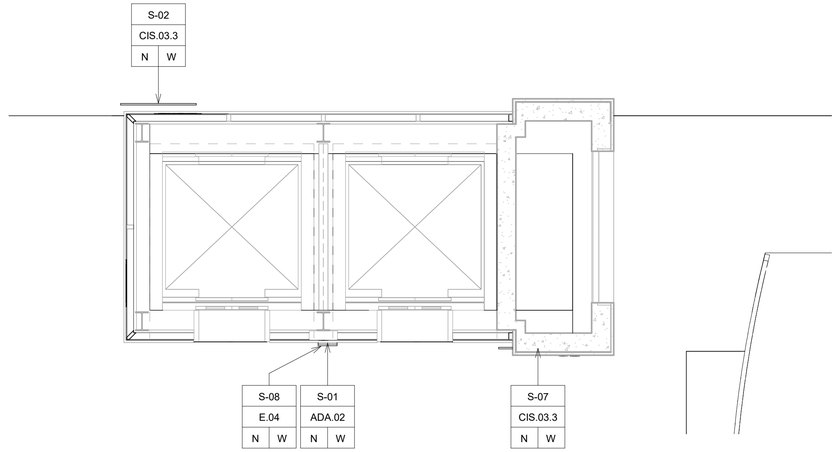
3 ELEVATION AT NEW ELEVATOR - BACK - ARCH GRAPHICS
B09-AG-200 1/4" = 1'-0"

0' 4' 8'



5 ELEVATION AT NEW ELEVATOR - LEFT SIDE - ARCH GRAPHICS
B09-AG-200 1/4" = 1'-0"

0' 4' 8'



1 ENLARGED PLAN AT NEW ELEVATOR - ARCH GRAPHICS
B09-AG-110 B09-AG-200 1/4" = 1'-0"

0' 4' 8'

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

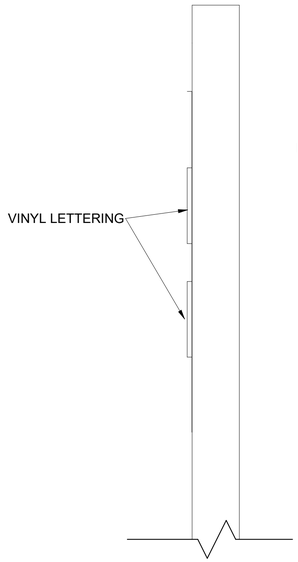
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

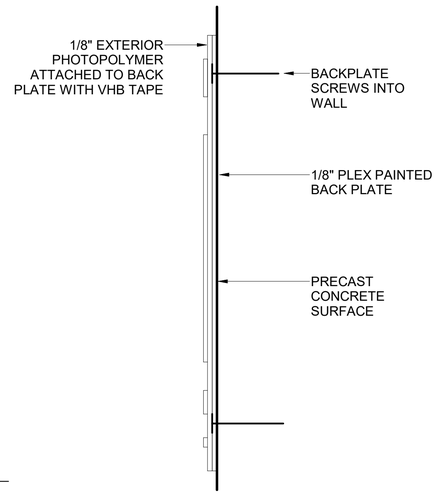
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
ARCH GRAPHICS AT TYP ELEVATOR HEADHOUSE

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-AG-200	77 OF 183

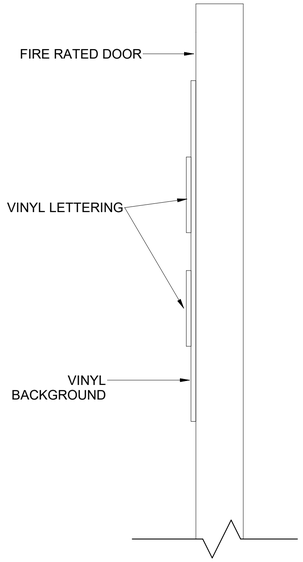
Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt



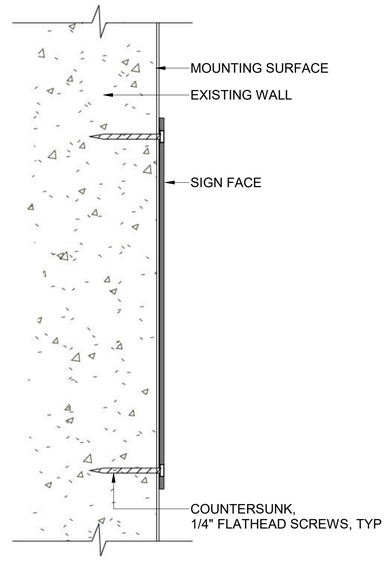
8 VINYL MOUNTING ON DOOR
B09-AG-401 6" = 1'-0"



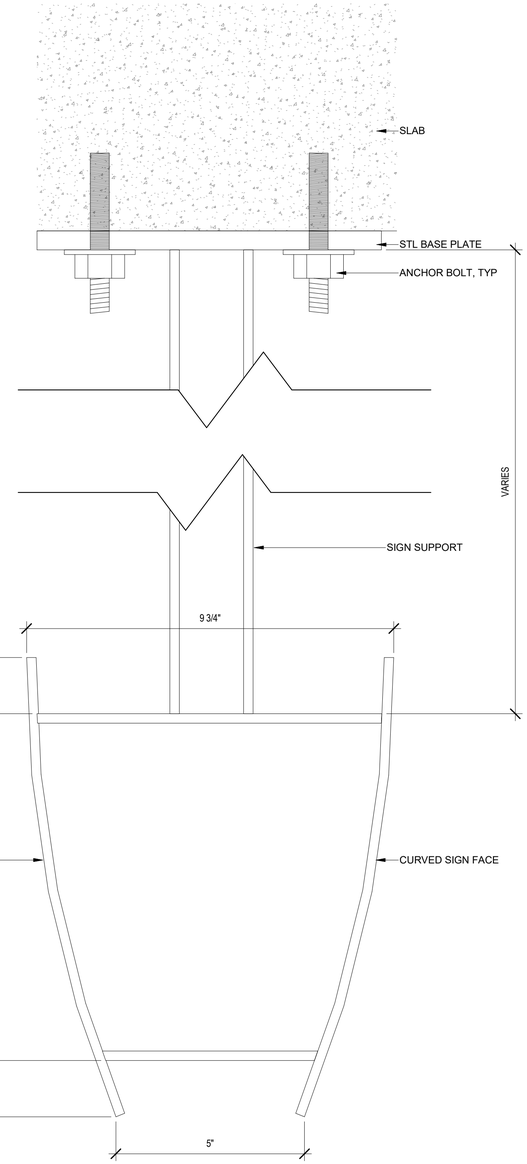
6 MOUNTING TO RIDGED WALL
B09-AG-401 6" = 1'-0"



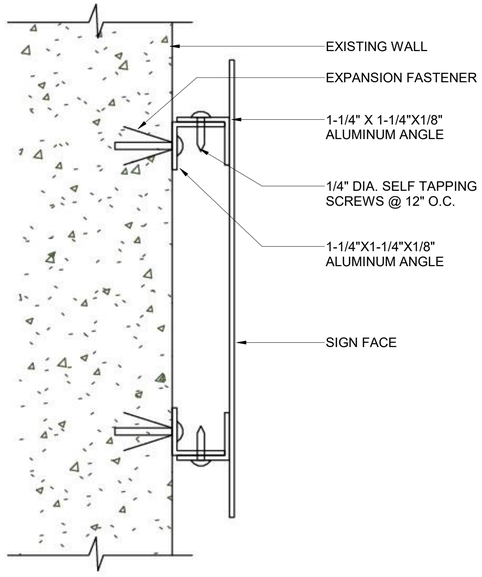
4 MOUNTING FIRE RATED DOOR
B09-AG-401 6" = 1'-0"



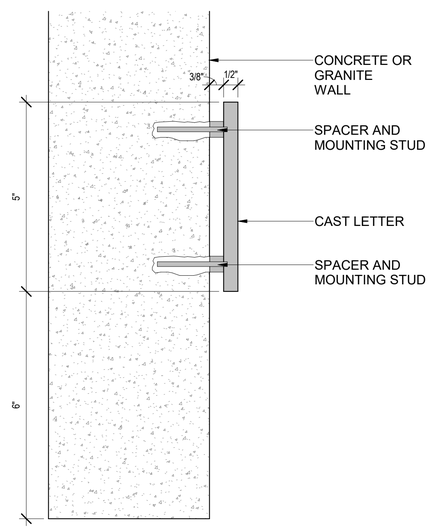
2 MOUNTING WITH SCREWS
B09-AG-401 6" = 1'-0"



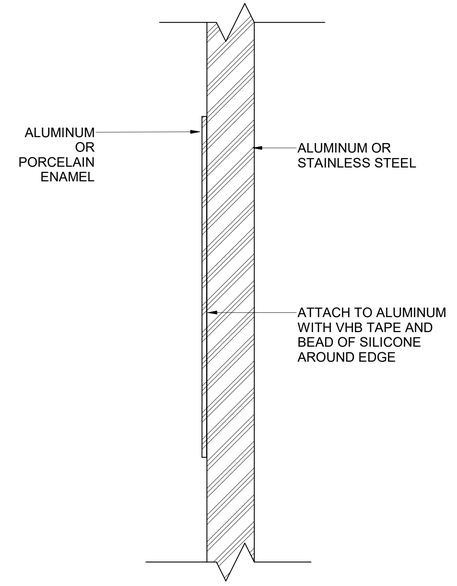
7 CEILING MOUNTED SIGN
B09-AG-401 6" = 1'-0"



5 OFFSET PANEL MOUNTING
B09-AG-401 6" = 1'-0"



3 MOUNTING TO CONCRETE
B09-AG-401 6" = 1'-0"



1 MOUNTING TO METAL
B09-AG-401 6" = 1'-0"

KGP design studio

NOT FOR CONSTRUCTION

0' 2" 4"

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
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		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
MOUNTING DETAILS

SCALE	DRAWING NO.	SHEET NO.
6" = 1'-0"	B09-AG-401	78 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station.rvt

SIGN MESSAGE SCHEDULE

SIGN NUMBER	TYPE	MESSAGE	ILLUMINATION	MOUNTING	REFERENCING PLAN	MOUNTING DETAIL
S-01	ADA.02	FOREST GLEN STATION Elevator to Mezzanine {ADA}{ELEVATOR} {DIRECTIONAL ARROW}	N	W	B09-AG-111	1/B09-AG-401
S-02	CIS.03.3	FOREST GLEN STATION Elevator to Mezzanine {ADA}{ELEVATOR} {DIRECTIONAL ARROW}	N	W	B09-AG-111	1/B09-AG-401
S-03	P.B	FOREST GLEN STATION	Y	F	B09-AG-111	-
S-04	ADA.03	{ADA}{ELEVATOR} ACCESSIBLE ENTRANCE AT FOREST GLEN RD	N	W	B09-AG-111	1/B09-AG-401
S-05	AL.01	Forest Glen Station	N	W	B09-AG-111	3/B09-AG-401
S-06	ADA.02	RED LINE FOREST GLEN STATION {BRAILLE}	N	W	B09-AG-111	1/B09-AG-401
S-07	CIS.03.3	FOREST GLEN STATION Elevator to Mezzanine {ADA}{ELEVATOR} {DIRECTIONAL ARROW}	N	W	B09-AG-111	1/B09-AG-401
S-08	E.04	FOREST GLEN STATION Elevator to Mezzanine {ADA}{ELEVATOR} {DIRECTIONAL ARROW}	N	W	B09-AG-111	1/B09-AG-401
WP1-15	W.04	{DIRECTIONAL} Forest Glen Station Kiss and Ride {DIRECTIONAL}	N	C	B09-AG-111	7/B09-AG-401
WP1-01	W.04	Passageway to East Entrance {DIRECTIONAL ARROW}	N	C	B09-AG-112	7/B09-AG-401
WP1-02	ADA.02	ELEVATOR TO PASSAGEWAY {BRAILLE}	N	W	B09-AG-112	6/B09-AG-401
WP1-14	W.04	Passageway to East Entrance {ADA}{ELEVATOR}{DIRECTIONAL ARROW}	N	C	B09-AG-112	7/B09-AG-401
WP1-16	E.04	Please let persons with disabilites and seniors board first - Thank you Elevator info, Shuttle info, For immediate assistance press intercom button	N	W	B09-AG-112	1/B09-AG-401
WP1-18	W.05	Elevator to Passageway	N	W	B09-AG-112	5/B09-AG-401
WP2-11	CIS.04	Report crime, emergencies or suspicious activity to th Metro Transit Police 202-962-2121 [SPANISH]	N	W	B09-AG-112	5/B09-AG-401
WP2-17	CIS.04	Report crime, emergencies or suspicious activity to th Metro Transit Police 202-962-2121 [SPANISH]	N	W	B09-AG-112	5/B09-AG-401
EP1-01	ADA.02	RED LINE FOREST GLEN STATION {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
EP2-02	RW-ADA.03	SUMP PUMP {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
EP2-03	RWD.01	Sump Pump Room	N	D	B09-AG-113	8/B09-AG-401
EP2-04	RWD.01	Elevator Machine Room	N	D	B09-AG-113	8/B09-AG-401
EP2-05	RW-ADA.03	ELEVATOR MACHINE ROOM {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
EP2-06	RW-ADA.03	FIRE EQUIPMENT CABINET {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
EP2-07	RWD.01	Fire Equipment Cabinet	N	D	B09-AG-113	8/B09-AG-401
EP2-08	W.05	Elevator to Forest Glen Rd {ADA}{ELEVATOR}	N	W	B09-AG-113	7/B09-AG-401
EP2-10	W.05	Elevator to Forest Glen Rd {ADA}{ELEVATOR}	N	W	B09-AG-113	6/B09-AG-401
WP1-01	W.04	Forest Glen Station {ADA}{ELEVATOR} {DIRECTIONAL ARROW}	N	C	B09-AG-113	5/B09-AG-401
WP1-02	RW-ADA.03	CORRIDOR {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP1-03	RWD.01	Corridor	N	D	B09-AG-113	8/B09-AG-401
WP1-04	RW-ADA.03	COILING FIRE DOOR CLOSET {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP1-05	RWD.01	Coiling Fire Door Closet	N	D	B09-AG-113	8/B09-AG-401
WP1-06	RW-ADA.03	FIRE EQUIPMENT CABINET {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP1-06	W.04	Exit to Forest Glen Rd	N	C	B09-AG-113	5/B09-AG-401
WP1-07	RWD.01	Fire Equipment Cabinet	N	D	B09-AG-113	8/B09-AG-401
WP1-08	RWD.01	Break Room	N	D	B09-AG-113	8/B09-AG-401
WP1-09	RW-ADA.03	BREAK ROOM {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP1-09	W.04	Forest Glen Station {ADA}{ELEVATOR} {DIRECTIONAL ARROW}	N	C	B09-AG-113	7/B09-AG-401
WP1-10	RWD.01	Communications Room	N	D	B09-AG-113	8/B09-AG-401
WP1-11	RW-ADA.03	COMMUNICATIONS ROOM {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP1-12	RW-ADA.03	ELECTRICAL ROOM {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP1-13	RWD.01	Electrical Room	N	D	B09-AG-113	8/B09-AG-401
WP1-16	E.04	Please let persons with disabilites and seniors board first - Thank you Elevator info, Shuttle info, For immediate assistance press intercom button	N	W	B09-AG-113	1/B09-AG-401
WP1-17	RWT.10	Electrical Room	N	D	B09-AG-113	8/B09-AG-401
WP2-05	RWD.01	Elevator Machine Room	N	D	B09-AG-113	8/B09-AG-401
WP2-06	RW-ADA.03	ELEVATOR MACHINE ROOM {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP2-07	RWD.01	Cleaner's Room	N	D	B09-AG-113	8/B09-AG-401
WP2-08	RW-ADA.03	CLEANER'S ROOM {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
WP2-10	CIS.02	The following are strictly prohibited in the Metrorail system {RESTRICTIVE SIGNS} It's the law. Violation is punishable by fine and/or jail.	N	W	B09-AG-113	5/B09-AG-401
WP2-12	RWD.01	Fire Equipment Cabinet	N	D	B09-AG-113	8/B09-AG-401
WP2-13	RW-ADA.03	FIRE EQUIPMENT CABINET {BRAILLE}	N	W	B09-AG-113	6/B09-AG-401
EP1-09	E.04	Please let persons with disabilites and seniors board first - Thank you Elevator info, Shuttle info, For immediate assistance press intercom button	N	W	B09-AG-114	1/B09-AG-401
EP1-09	E.04	Please let persons with disabilites and seniors board first - Thank you Elevator info, Shuttle info, For immediate assistance press intercom button	N	W	B09-AG-114	1/B09-AG-401
WP1-07	CIS.02	The following are strictly prohibited in the Metrorail system {RESTRICTIVE SIGNS} It's the law. Violation is punishable by fine and/or jail.	N	W	B09-AG-114	1/B09-AG-401
WP1-07	CIS.04	The following are strictly prohibited in the Metrorail system {RESTRICTIVE SIGNS} It's the law. Violation is punishable by fine and/or jail.	N	W	B09-AG-114	1/B09-AG-401
WP1-08	ADA.02	ELEVATOR TO STREET LEVEL {BRAILLE}	N	W	B09-AG-114	6/B09-AG-401
WP1-10	CIS.04	The following are strictly prohibited in the Metrorail system {RESTRICTIVE SIGNS} It's the law. Violation is punishable by fine and/or jail.	N	W	B09-AG-114	1/B09-AG-401

KGP design studio

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	KGP	10/2024
		DATE
DRAWN	B. BLOUNT	10/2024
		DATE
CHECKED	E. MARSH	10/2024
		DATE
APPROVED	B. GALLAGHER	10/2024
		DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

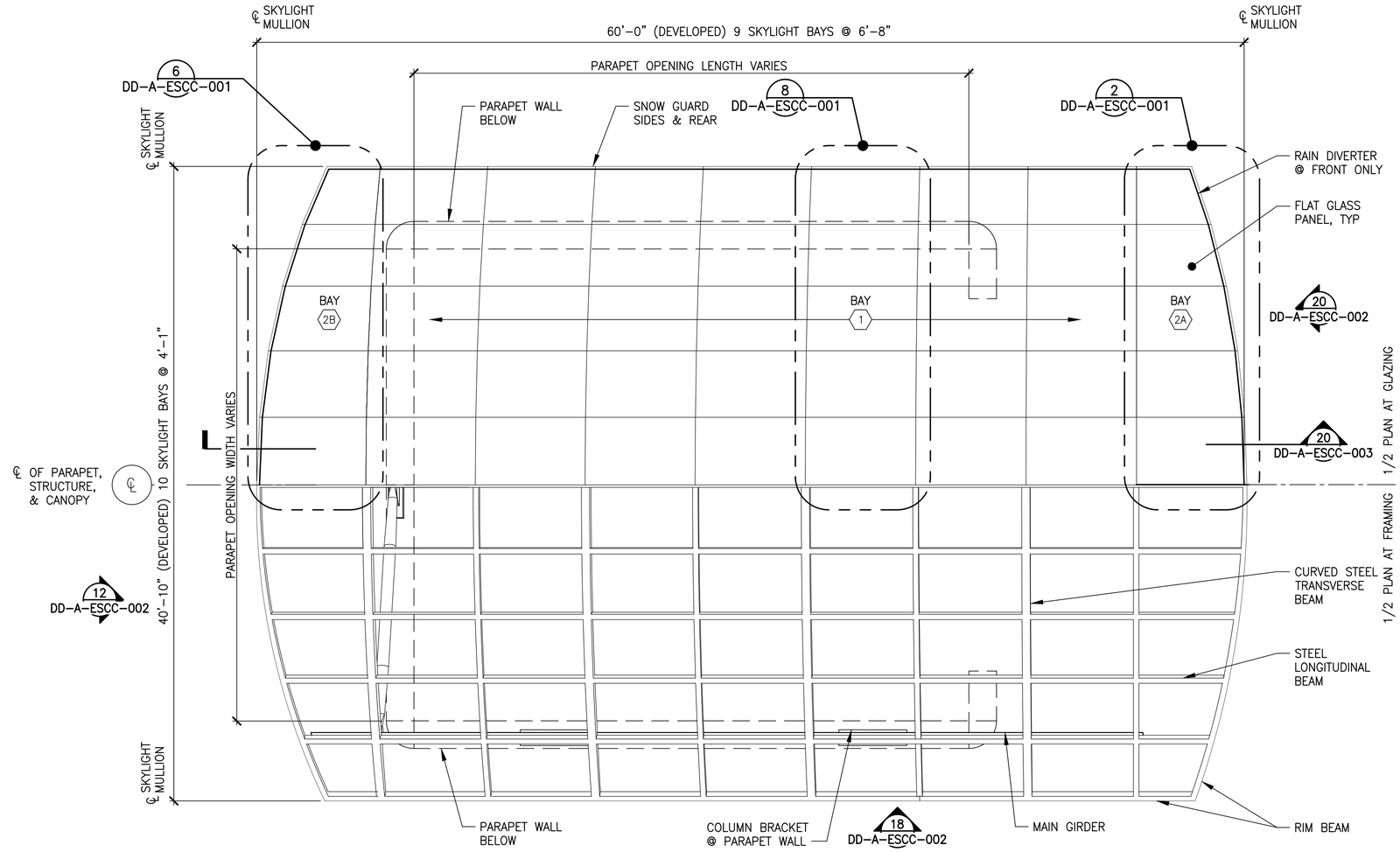
SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ARCHITECTURAL GRAPHICS
SIGN MESSAGE SCHEDULE

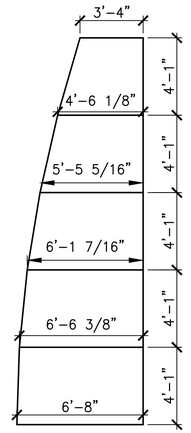
SCALE	DRAWING NO.	SHEET NO.
	B09-AG-801	79 OF 183

GENERAL NOTES:

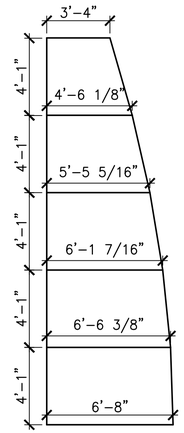
1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.
2. TRANSVERSE MODULE SIZE AND THE NUMBER OF LONGITUDINAL CANOPY BAYS VARIES DEPENDING ON SIZE OF PARAPET.
3. FOR THIS PARTICULAR ARRANGEMENT, THE ROOF PLANE DEFINES THE SURFACE OF A TORUS, WITH A MAJOR AXIS OF 318'-4" AND A SECONDARY RADIUS OF 42'-1/2".



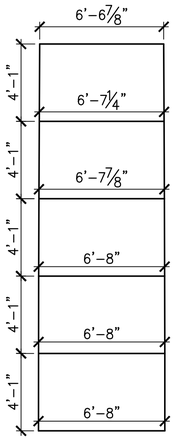
20 CANOPY PLAN
DD-A-ESCC-001 SCALE: 1/4"=1'-0"



6 SKYLIGHT BAY TYPE 2B
DD-A-ESCC-001 SCALE: 1/4"=1'-0"



2 SKYLIGHT BAY TYPE 2A
DD-A-ESCC-001 SCALE: 1/4"=1'-0"



8 SKYLIGHT BAY TYPE 1
DD-A-ESCC-001 SCALE: 1/4"=1'-0"

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

DESIGNED LOURIE & CHENOWETH LLC 08/2006 DATE
DRAWN P FANFULIK 08/2016 DATE
CHECKED I KARADIMOV 10/2016 DATE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

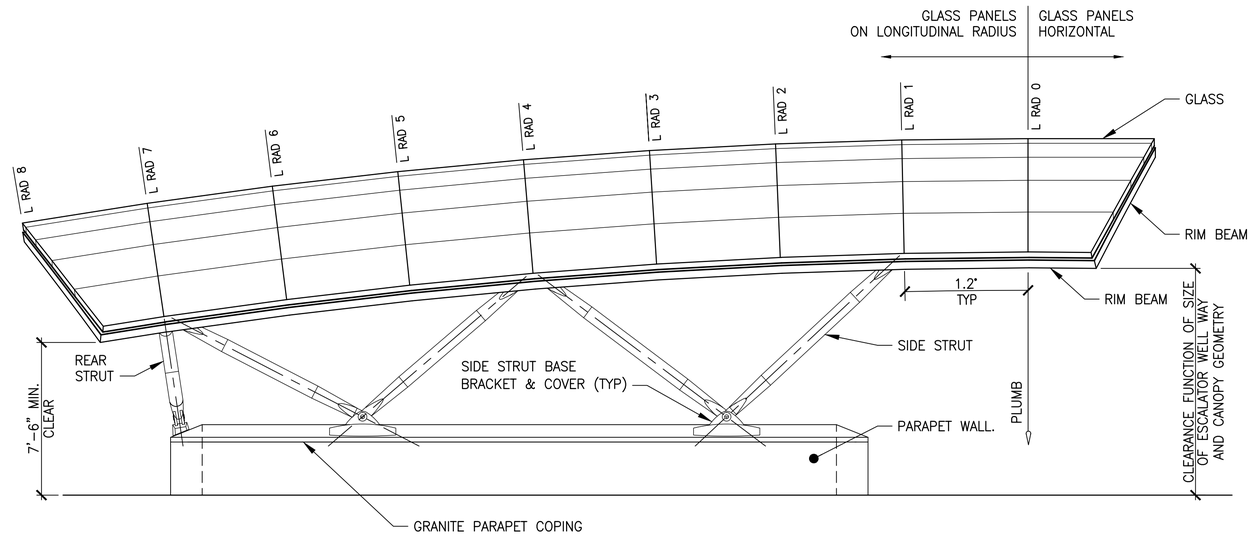
APPROVED PERRILYN FANFULIK, SENIOR DESIGN ARCHITECT 11/28/17 DATE
APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE 11/28/17 DATE

ARCHITECTURAL DESIGN DRAWINGS
TYPICAL ESCALATOR CANOPY PLAN
4'-1" TRANSVERSE MODULE, 9 LONGITUDINAL BAYS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-001	80 OF 183

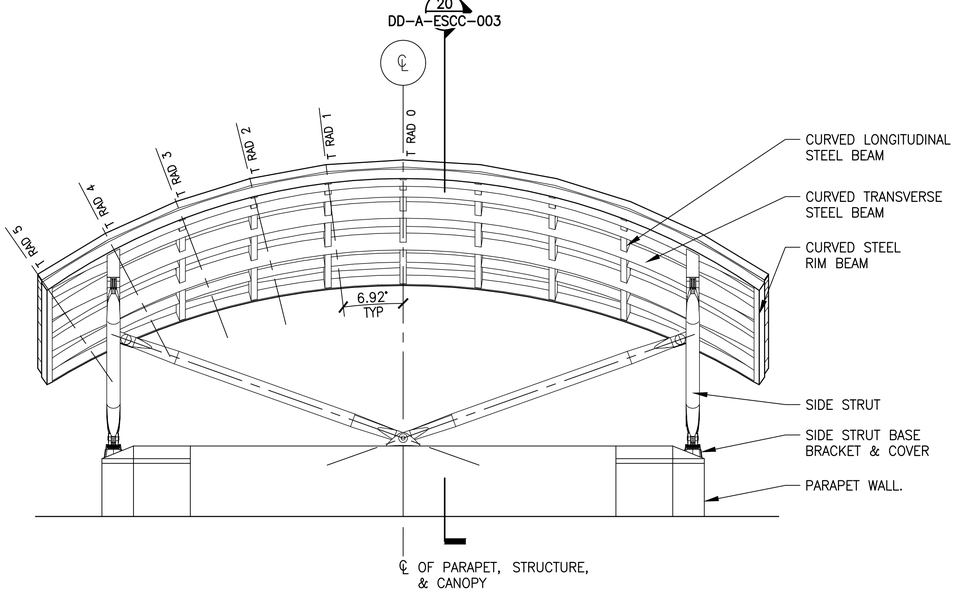
GENERAL NOTES:

1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.
2. TRANSVERSE MODULE SIZE AND THE NUMBER OF LONGITUDINAL CANOPY BAYS VARIES DEPENDING ON SIZE OF PARAPET.
3. FOR THIS PARTICULAR ARRANGEMENT, THE ROOF PLANE DEFINES THE SURFACE OF A TORUS, WITH A MAJOR AXIS OF 318'-4" AND A SECONDARY RADIUS OF 25'-8".



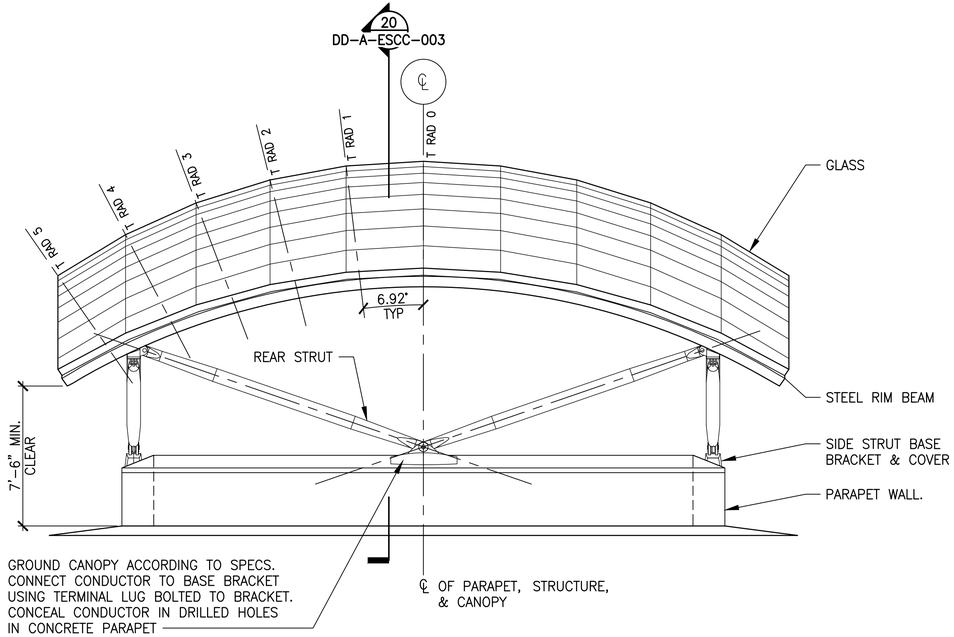
18 TYPICAL SOUTH ELEVATION
DD-A-ESCC-002

SCALE: 1/4"=1'-0"



20 TYPICAL EAST ELEVATION
DD-A-ESCC-002

SCALE: 1/4"=1'-0"



12 TYPICAL WEST ELEVATION
DD-A-ESCC-002

SCALE: 1/4"=1'-0"

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 11/28/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

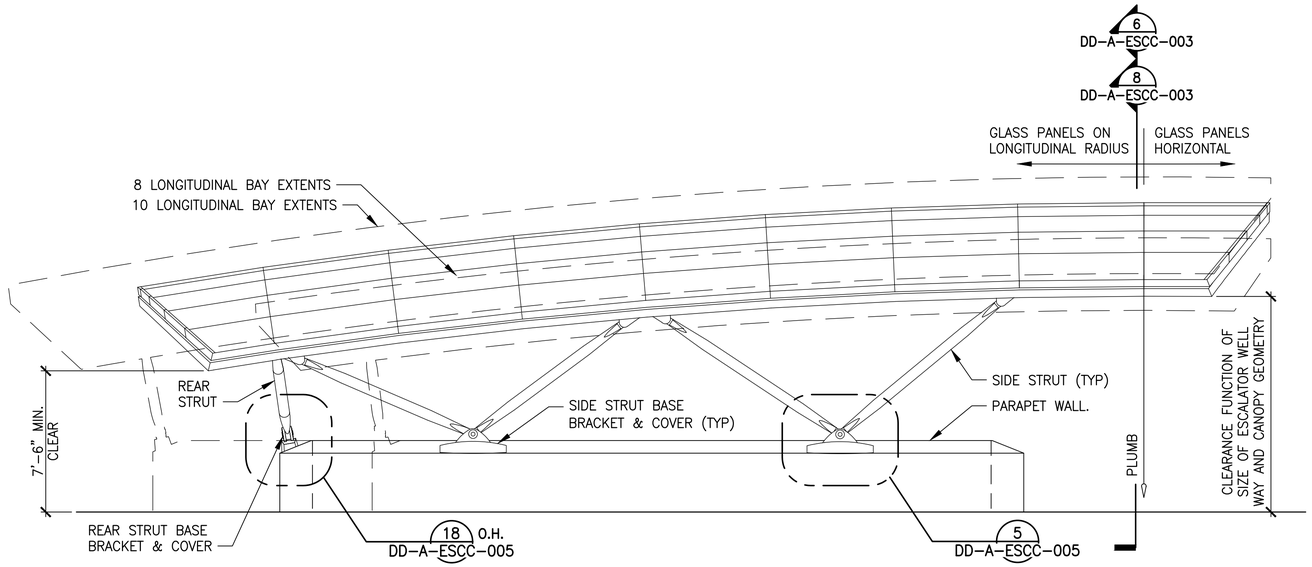
APPROVED 11/28/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
TYPICAL ESCALATOR CANOPY ELEVATIONS
4'-1" TRANSVERSE MODULE, 9 LONGITUDINAL BAYS

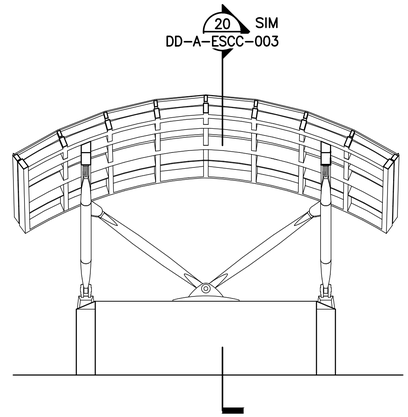
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-002	81 OF 183

GENERAL NOTES:

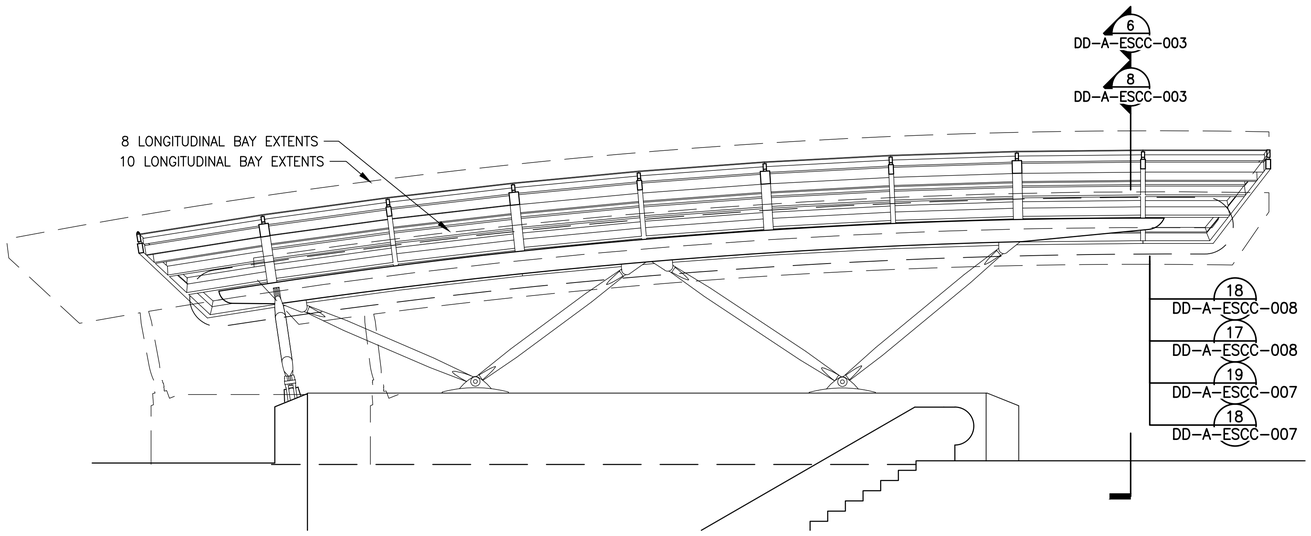
1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.



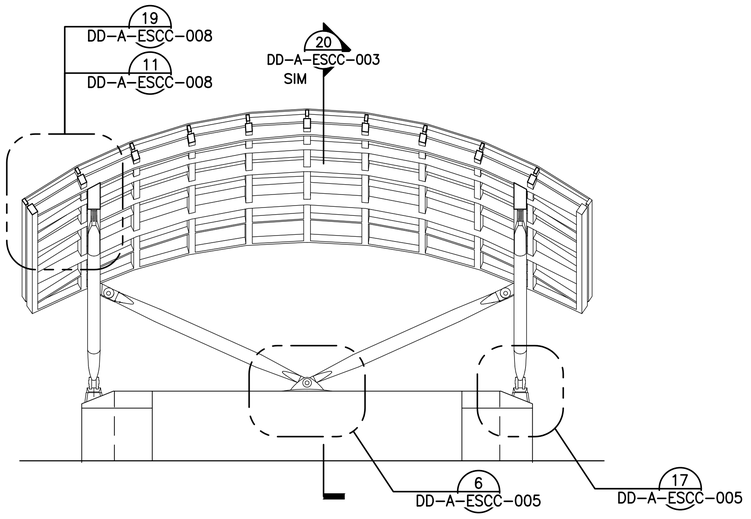
18 TYPICAL LONGITUDINAL ELEVATION (9 BAY SHOWN)
DD-A-ESCC-003
SCALE: 1/4"=1'-0"



6 TYPICAL TRANSVERSE SECTION @ 8 BAY CANOPY
DD-A-ESCC-003
SCALE: 1/4"=1'-0"



20 TYPICAL LONGITUDINAL SECTION (9 BAY SHOWN)
DD-A-ESCC-003
SCALE: 1/4"=1'-0"



8 TYPICAL TRANSVERSE SECTION @ 10 BAY CANOPY
DD-A-ESCC-003
SCALE: 1/4"=1'-0"

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

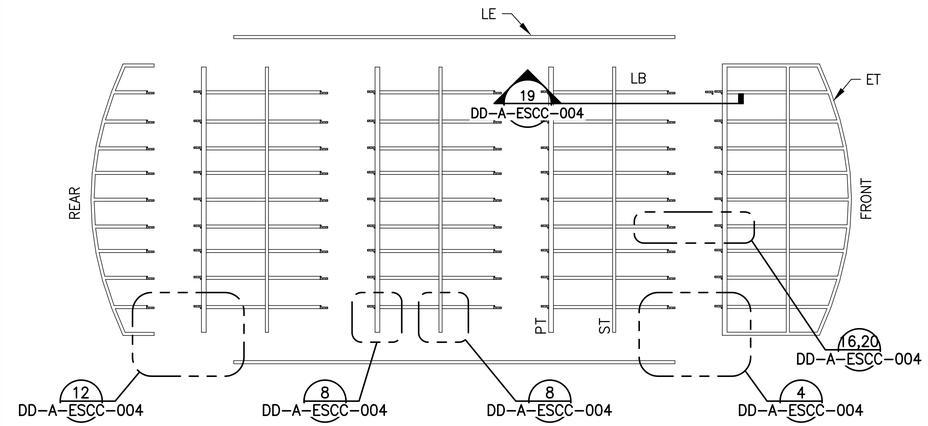
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 11/28/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

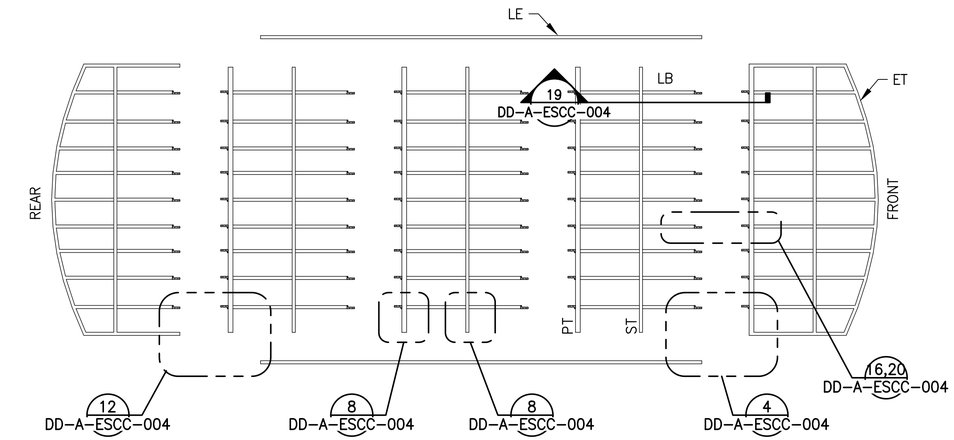
APPROVED 11/28/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
TYPICAL ESCALATOR CANOPY ELEVATION & SECTIONS
TRANSVERSE MODULE, 8+10 LONGITUDINAL BAYS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-003	82 OF 183



17 TYPICAL ODD BAY ASSEMBLY
DD-A-ESCC-004 SCALE: 1/8"=1'-0"



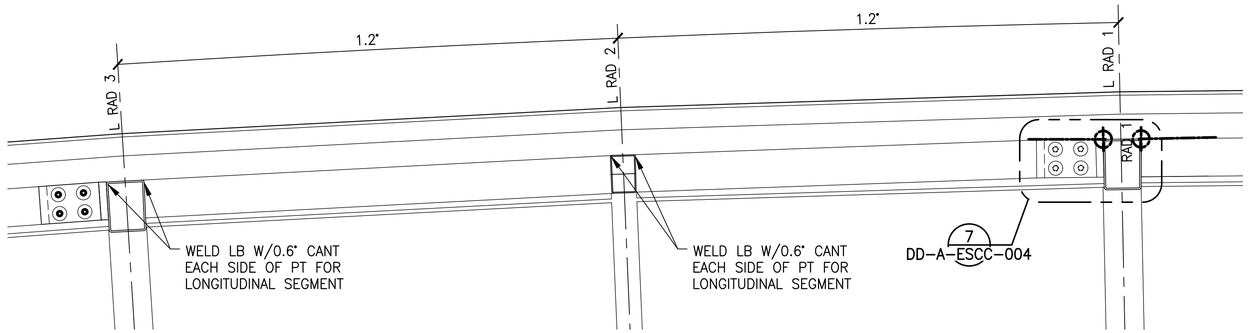
9 TYPICAL EVEN BAY ASSEMBLY
DD-A-ESCC-004 SCALE: 1/8"=1'-0"

GENERAL NOTES:

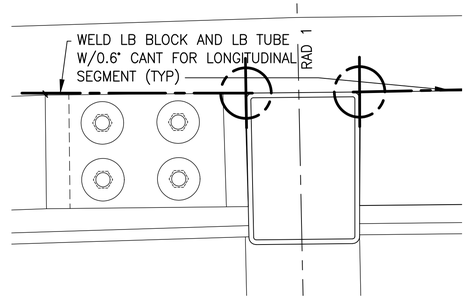
1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.

ABBREVIATIONS:

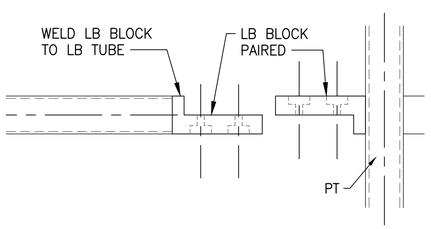
LE	LONGITUDINAL END
LB	LONGITUDINAL BAY
PT	PRIMARY TRANSVERSE
ST	SECONDARY TRANSVERSE
ET	EYEBROW TRANSVERSE



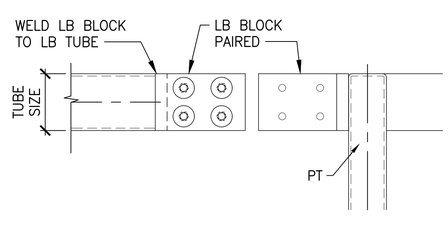
19 MODULE DETAIL
DD-A-ESCC-004 SCALE: 1"=1'-0"



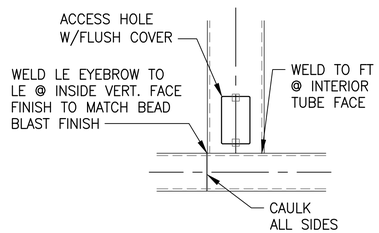
7 MOD. CONNECTION DETAIL
DD-A-ESCC-004 SCALE: 1-1/2"=1'-0"



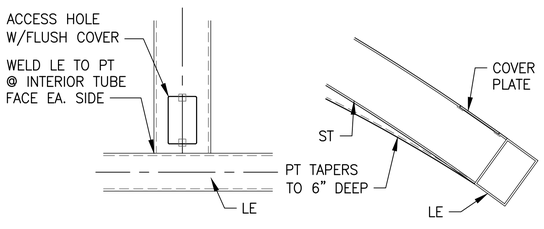
20 MOD. CONNECTION PLAN
DD-A-ESCC-004 SCALE: 1-1/2"=1'-0"



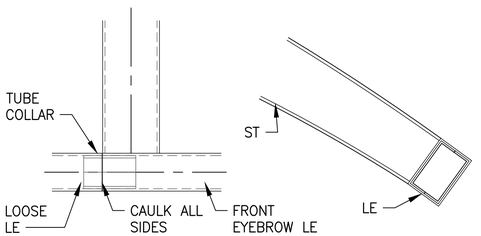
16 MOD. CONNECTION ELEVATION
DD-A-ESCC-004 SCALE: 1-1/2"=1'-0"



12 REAR ET TO LE DETAIL
DD-A-ESCC-004 SCALE: 1-1/2"=1'-0"



8 TYP TRANSVERSE TO LE DETAIL
DD-A-ESCC-004 SCALE: 1-1/2"=1'-0"



4 FRONT ET TO LE DETAIL
DD-A-ESCC-004 SCALE: 1-1/2"=1'-0"

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
DRAWN	P.FANFULIK	08/2016 DATE
CHECKED	I.KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

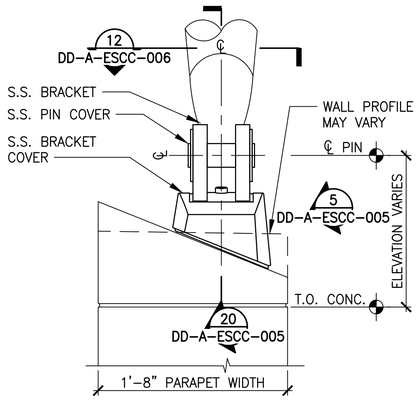
APPROVED PERRILYN FANFULIK, SENIOR DESIGN ARCHITECT 11/28/17 DATE

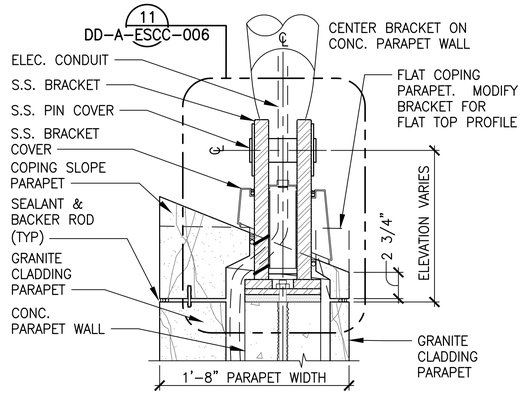
APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE 11/28/17 DATE

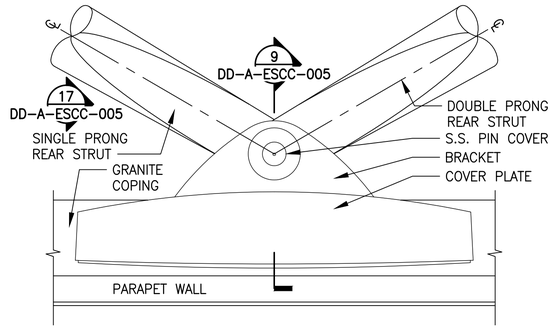
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

TYPICAL ESCALATOR CANOPY ASSEMBLY AND JOINT DETAILS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-004	83 OF 183

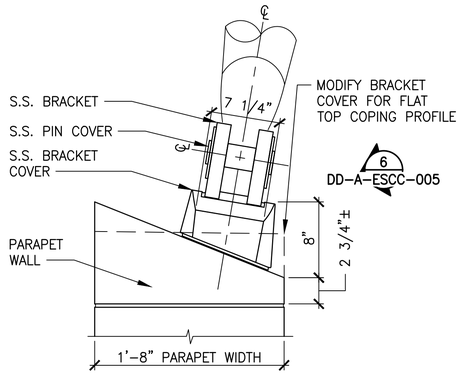


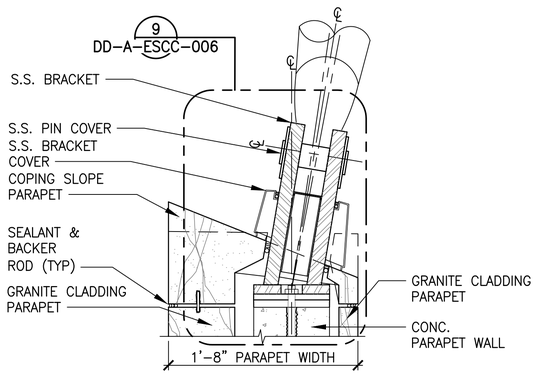


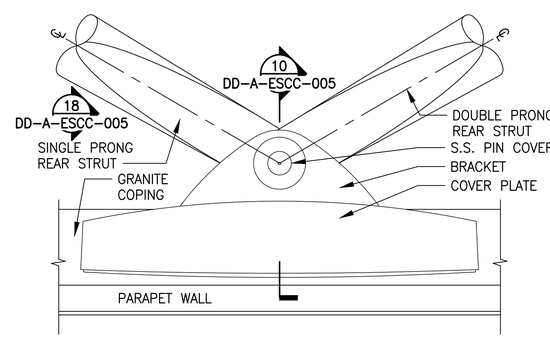


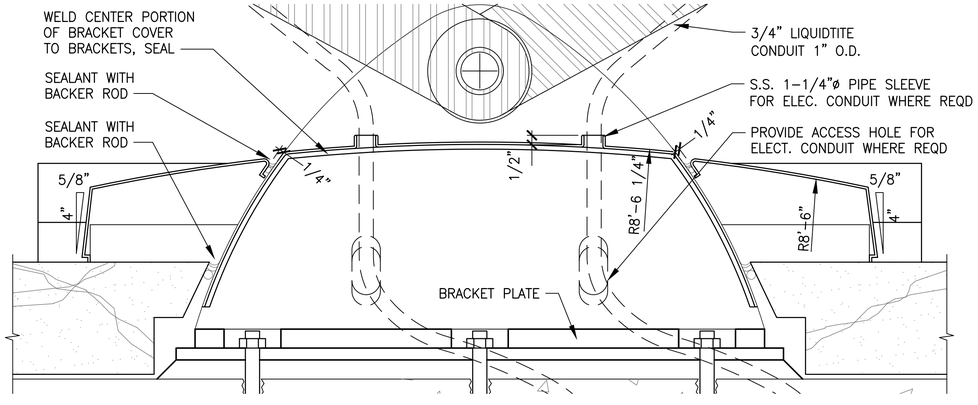
GENERAL NOTES:

1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.









DESIGNED	LOURIE & CHENOWETH LLC	08/2006	DATE
DRAWN	P FANFULIK	08/2016	DATE
CHECKED	I KARADIMOV	10/2016	DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

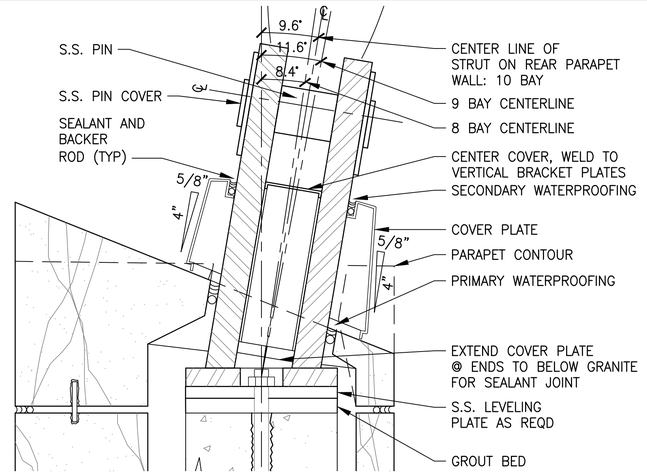
APPROVED PERRILYN FANFULIK, SENIOR DESIGN ARCHITECT — 11/28/17 DATE

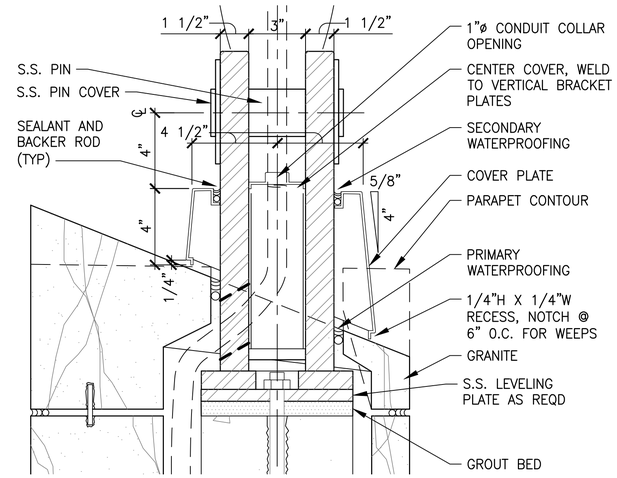
APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE — 11/28/17 DATE

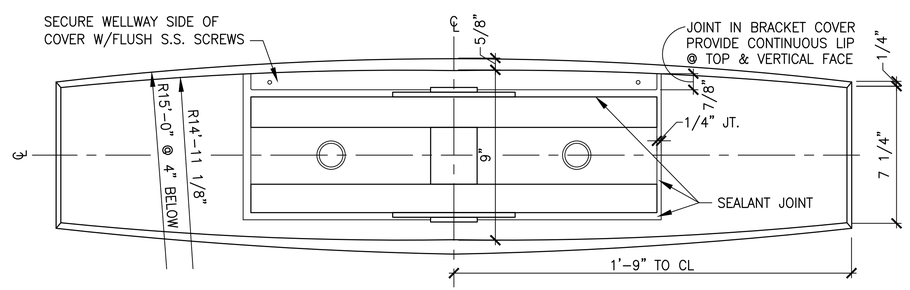
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

TYPICAL ESCALATOR CANOPY BRACKET DETAILS
SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-005	84 OF 183







GENERAL NOTES:

1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION

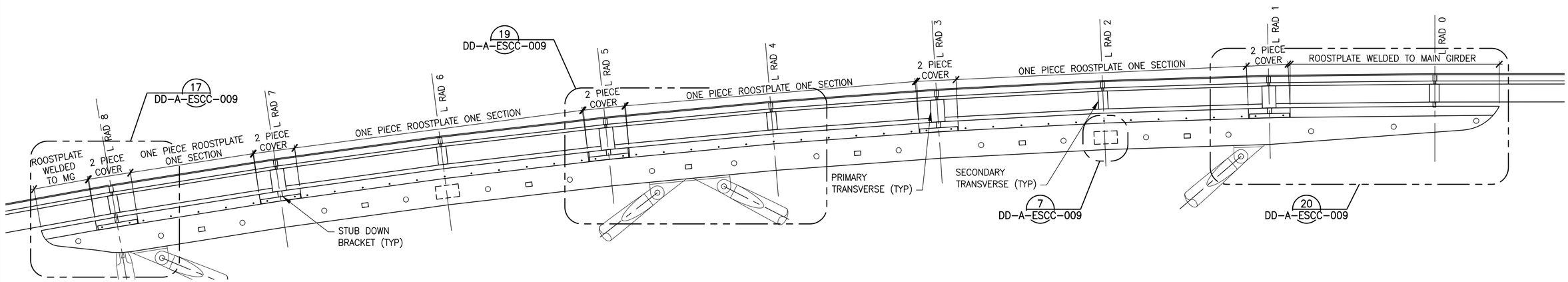
ENGA - ARCHITECTURE

APPROVED 11/28/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 11/28/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

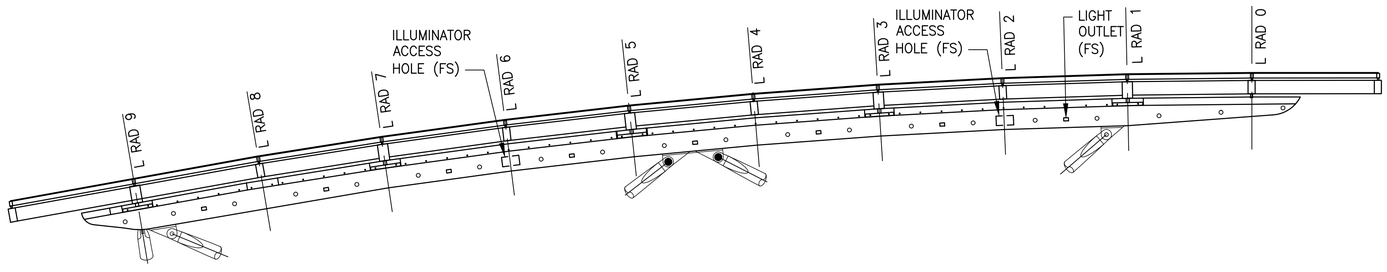
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
TYPICAL ESCALATOR CANOPY BRACKET DETAILS
SHEET 2 OF 2

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-006	85 OF 183



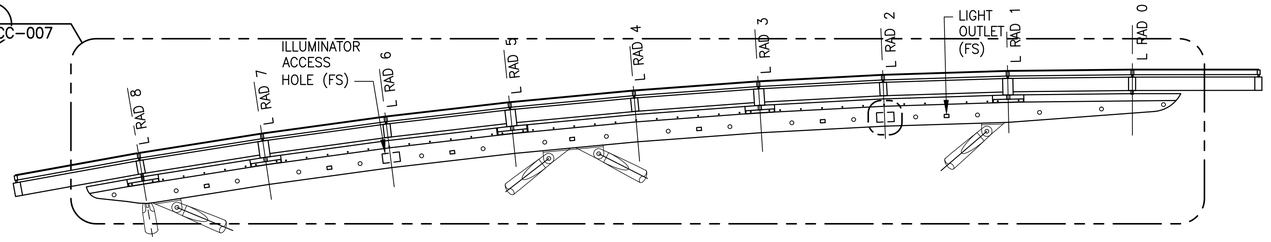
17 MAIN GIRDER ELEVATION 10 BAY-DETAIL
DD-A-ESCC-007

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



18 MAIN GIRDER ELEVATION 11 BAY
DD-A-ESCC-007

SCALE: 1/4"=1'-0"



19 MAIN GIRDER ELEVATION 10 BAY
DD-A-ESCC-007

SCALE: 1/4"=1'-0"

GENERAL NOTES:

1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.
2. TRANSVERSE MODULE SIZE AND THE NUMBER OF LONGITUDINAL CANOPY BAYS VARIES DEPENDING ON SIZE OF PARAPET.
3. FOR THIS PARTICULAR ARRANGEMENT, THE ROOF PLANE DEFINES THE SURFACE OF A TORUS, WITH A MAJOR AXIS OF 318'-4" AND A SECONDARY RADIUS OF 25'-8".

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

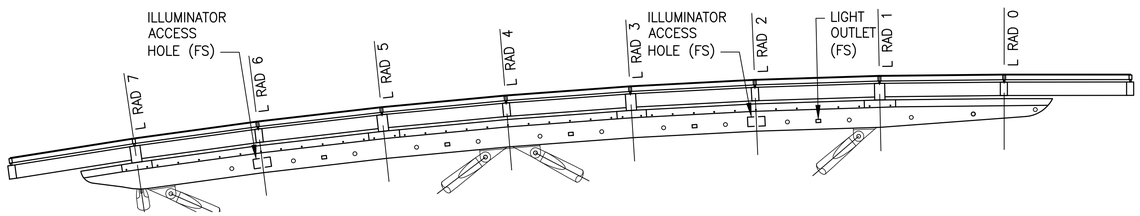
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 11/28/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 11/28/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
TYPICAL ESCALATOR CANOPY MAIN GIRDER TAPERS
AND ROOSTPLATES FOR 8" STRUTS
SHEET 1 OF 2

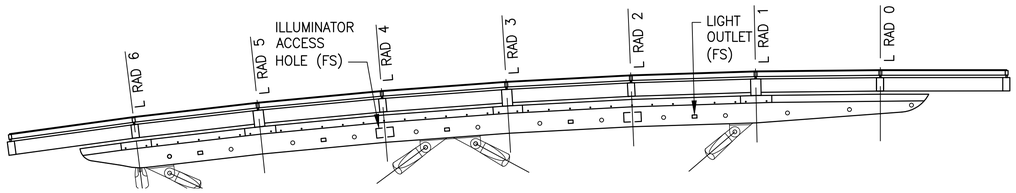
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-007	86 OF 183



17 MAIN GIRDER ELEVATION 9 BAY

DD–A–ESCC–008

SCALE: 1/4"=1'–0"



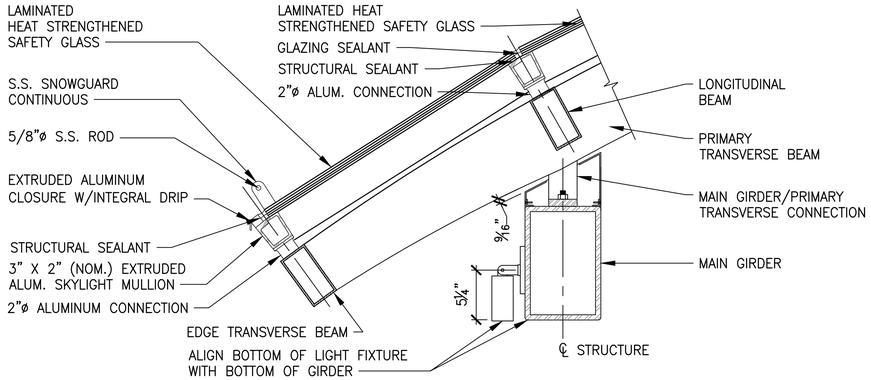
18 MAIN GIRDER ELEVATION 8 BAY

DD–A–ESCC–008

SCALE: 1/4"=1'–0"

GENERAL NOTES:

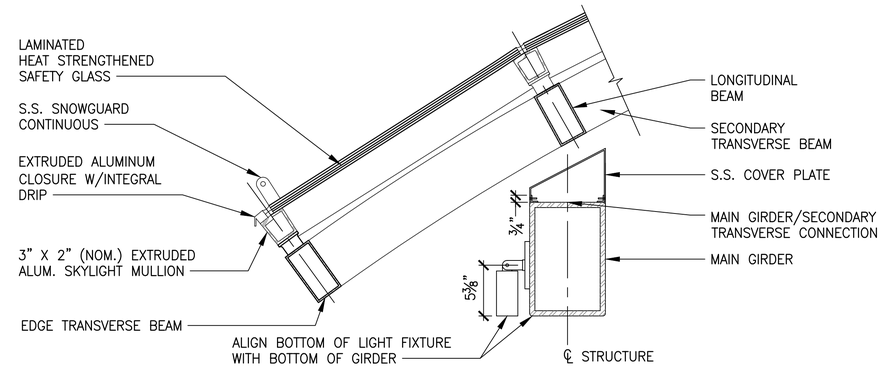
1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.
2. TRANSVERSE MODULE SIZE AND THE NUMBER OF LONGITUDINAL CANOPY BAYS VARIES DEPENDING ON SIZE OF PARAPET.
3. FOR THIS PARTICULAR ARRANGEMENT, THE ROOF PLANE DEFINES THE SURFACE OF A TORUS, WITH A MAJOR AXIS OF 318'–4" AND A SECONDARY RADIUS OF 25'–8".



19 TYPICAL SECTION DETAIL - PRIMARY TRANSVERSE BRACKET

DD–A–ESCC–008

SCALE: 1–1/2"=1'–0"



11 TYPICAL SECTION DETAIL - PRIMARY TRANSVERSE BRACKET

DD–A–ESCC–008

SCALE: 1–1/2"=1'–0"

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ENGA - ARCHITECTURE

APPROVED PERRILYN FANFULIK, SENIOR DESIGN ARCHITECT 11/28/17 DATE

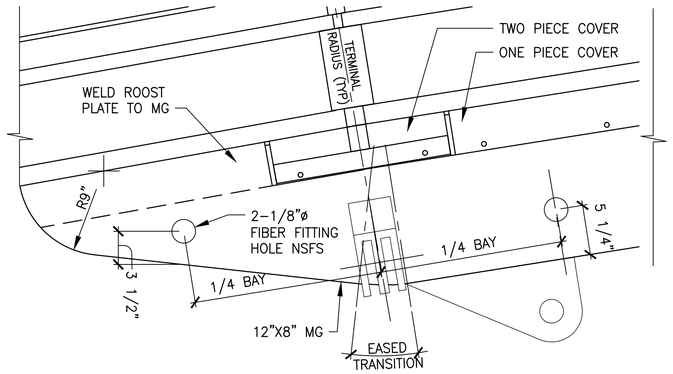
APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE 11/28/17 DATE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
TYPICAL ESCALATOR CANOPY MAIN GIRDER TAPERS AND ROOSTPLATES FOR 8" STRUTS
SHEET 2 OF 2

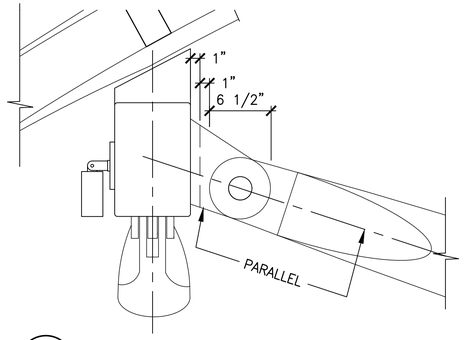
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-008	87 OF 183

GENERAL NOTES:

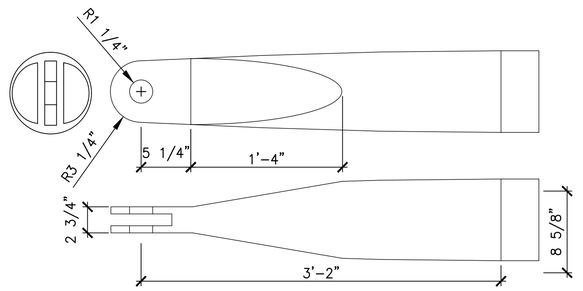
1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.



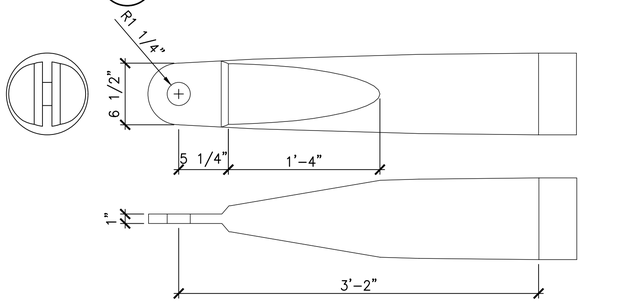
17 REAR TEARDROP DETAIL AND TAPER 8" STRUTS
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"



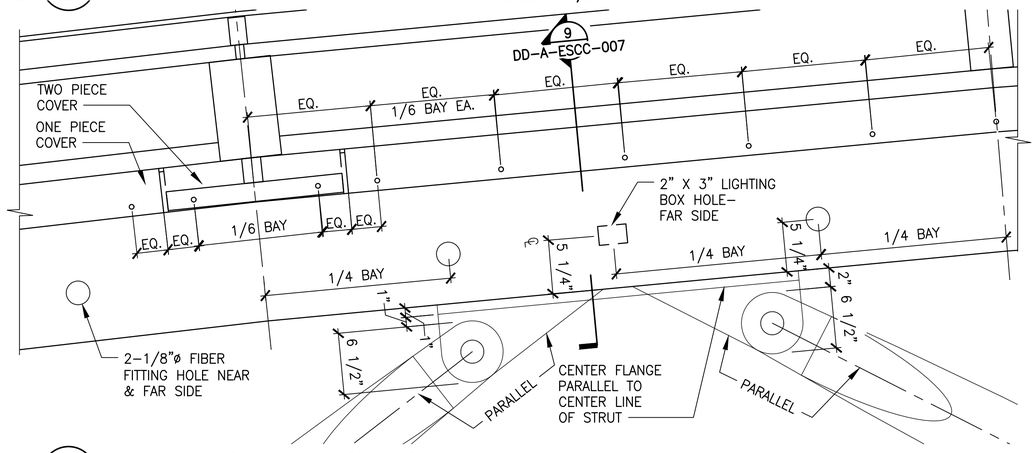
9 REAR TEARDROP DETAIL
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"



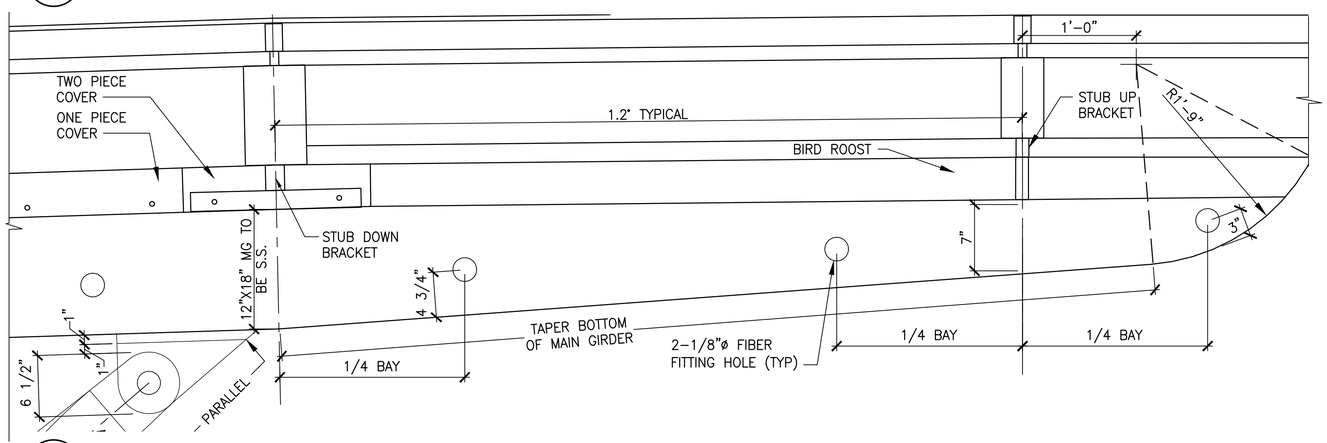
5 8" STRUT - DOUBLE PRONG
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"



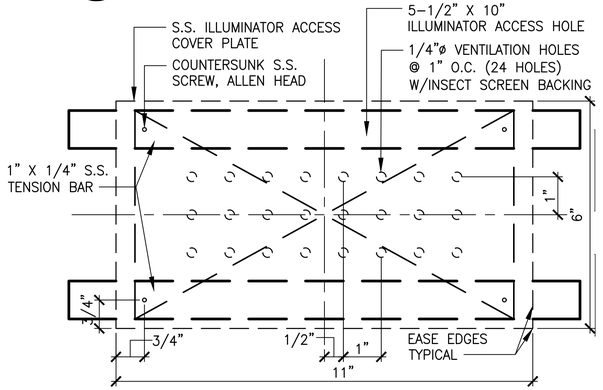
6 8" STRUT - SINGLE PRONG
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"



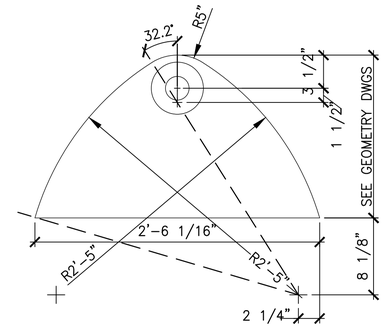
19 MID TEARDROP DETAIL 8" STRUTS
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"



20 FRONT TEARDROP AND TAPER 8" STRUTS
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"



7 TYPICAL ILLUMINATOR COVER
DD-A-ESCC-009 SCALE: 6"=1'-0"



3 8" STRUT BRACKET GEOMETRY
DD-A-ESCC-009 SCALE: 1-1/2"=1'-0"

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
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CHECKED	I KARADIMOV	10/2016 DATE

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 11/28/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 11/28/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

TYPICAL TEARDROP DETAILS FOR 8" STRUTS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-009	88 OF 183

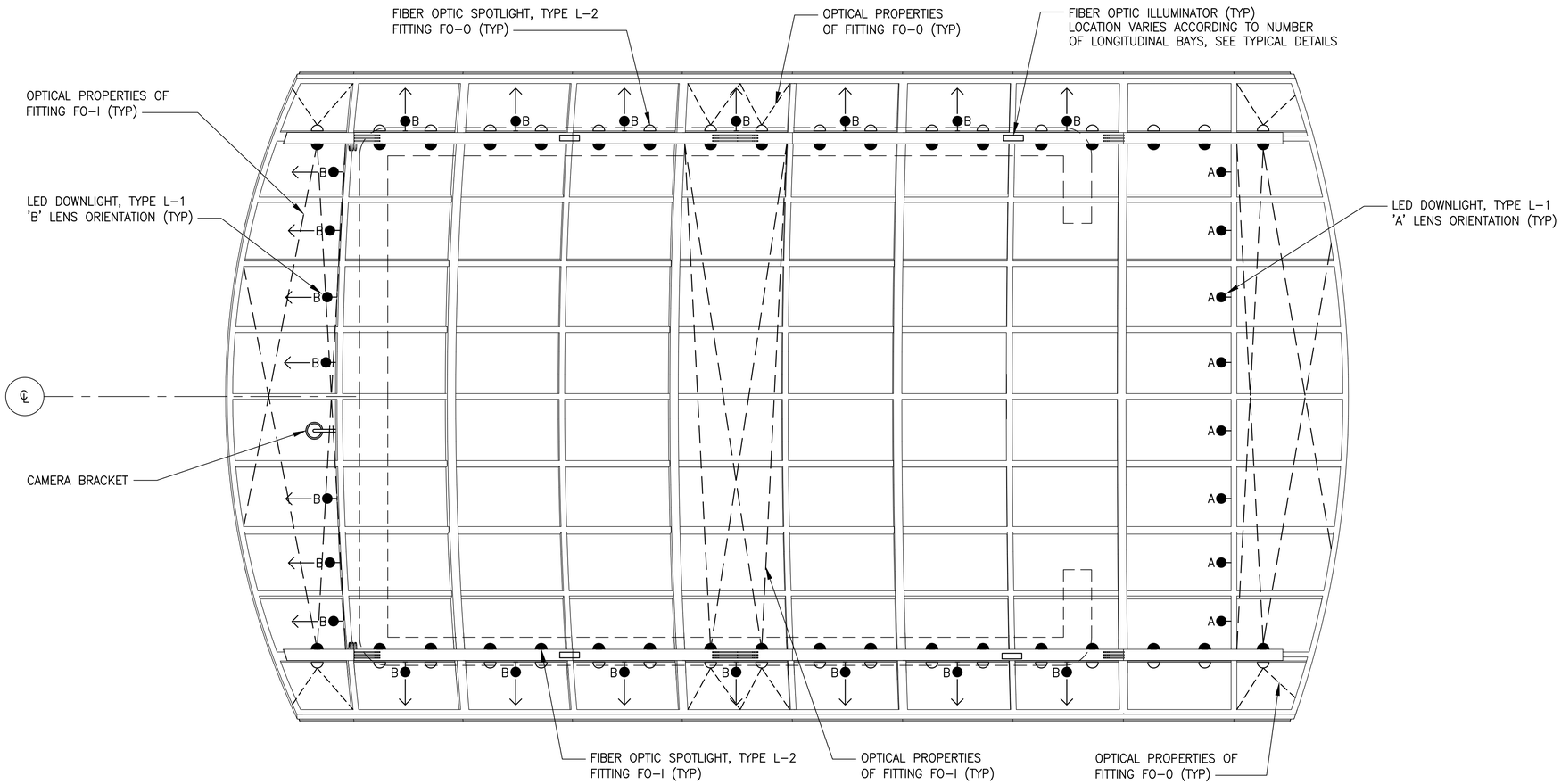
GENERAL NOTES:

1. ESCALATOR CANOPY SIZES VARY BY LOCATION. EXAMPLES SHOWN ARE FOR REFERENCE ONLY TO ILLUSTRATE STANDARD DESIGN GEOMETRY, MATERIALS AND DETAILS.

LEGEND:

- TYPE L–1 LED DOWNLIGHT 'A' LENS ORIENTATION 'B' LENS ORIENTATION
- TYPE L–2 FIBER OPTIC LIGHTING SYSTEM ILLUMINATOR
- FO–1 FIBER OPTIC INWARD FITTING
- FO–0 FIBER OPTIC OUTWARD FITTING

REFER TO DWG DD–A–ESCC–011 FOR LIGHTING FIXTURE DETAILS



20 CANOPY LIGHTING PLAN
DD–A–ESCC–010

SCALE: 1/4"=1'–0"

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
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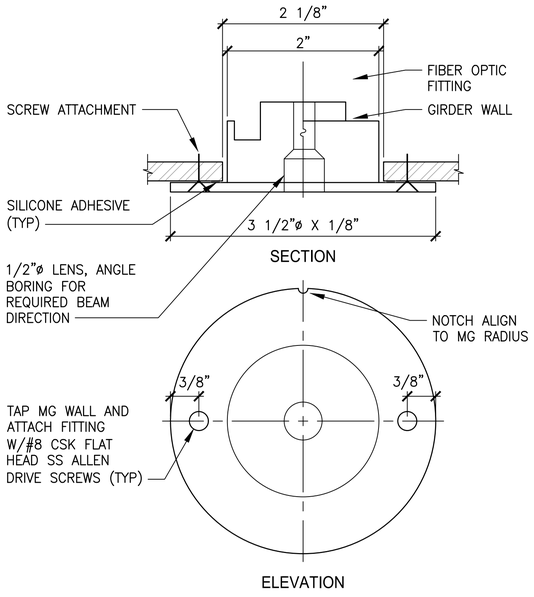
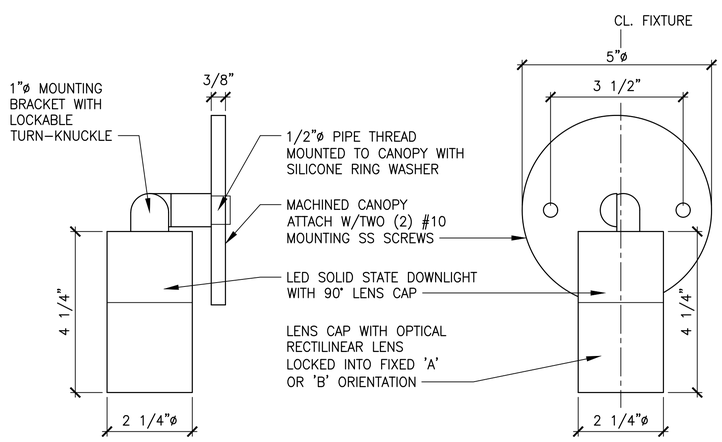
TYPICAL ESCALATOR CANOPY LIGHTING PLAN

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-010	89 OF 183



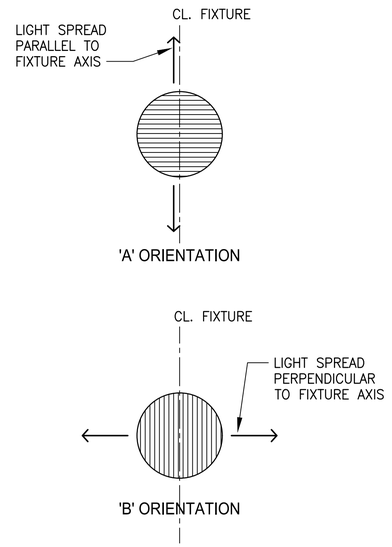
18 TYPE L-2 FIXTURE FIBER OPTIC RECESSED FO-1 FITTING

DD-A-ESCC-011 SCALE: 1'-0"=1'-0"



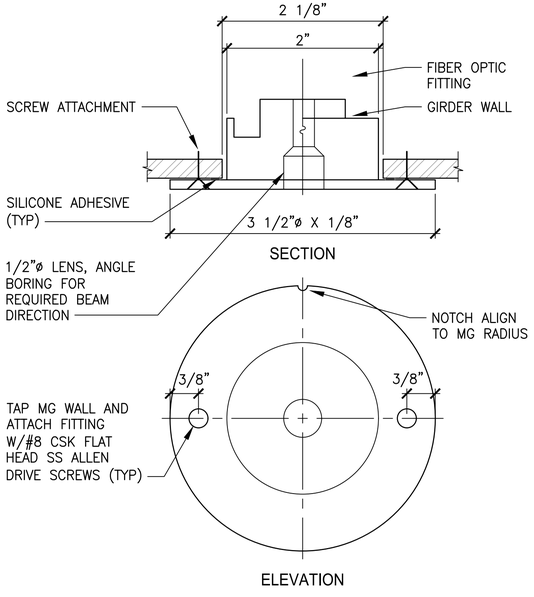
14 TYPE L-1 FIXTURE LED DOWNLIGHT

DD-A-ESCC-011 SCALE: 6"=1'-0"



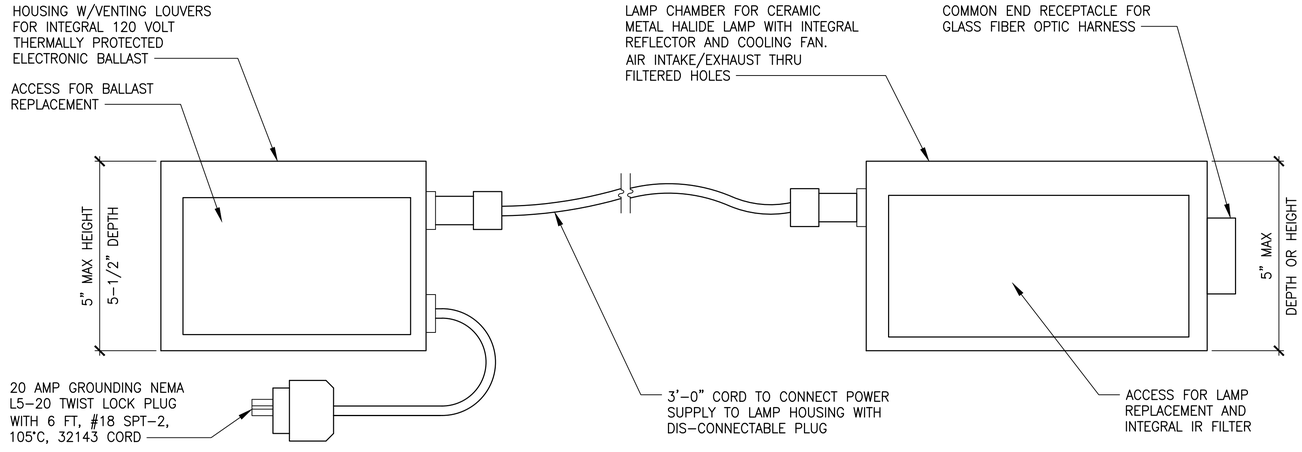
6 TYPE L-1 FIXTURE LED DOWNLIGHT CAP ORIENTATION PLANS

DD-A-ESCC-011 SCALE: 6"=1'-0"



20 TYPE L-2 FIXTURE FIBER OPTIC RECESSED FO-0 FITTING

DD-A-ESCC-011 SCALE: 1'-0"=1'-0"



16 TYPE L-2 FIXTURE FIBER OPTIC ILLUMINATOR FIXTURE SCHEMATIC

DD-A-ESCC-011 SCALE: 6"=1'-0"

LIGHTING NOTES:

1. INSTALLATION OF ALL FIBER OPTIC LIGHTING SYSTEMS IS TO BE PROVIDED BY A QUALIFIED FIBER OPTIC INSTALLER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FIBER OPTIC INSTALLER QUALIFICATIONS TO THE MANUFACTURER AND THE AUTHORITY BEFORE FIBER OPTIC EQUIPMENT IS INSTALLED. THE MANUFACTURER, THE AUTHORITY AND THE CONTRACTOR'S LIGHTING DESIGNER RESERVES THE RIGHT TO REJECT THE PROPOSED FIBER OPTIC INSTALLER IF THEY DEEM THAT PERSON'S RELEVANT EXPERIENCE IS INSUFFICIENT.

2. LIGHT FIXTURES SHALL COMPLY WITH THE GENERAL CONDITIONS AND REQUIREMENTS OF THE GENERAL LIGHTING SPECIFICATION SECTION. FIXTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH APPROPRIATE AND CURRENT REQUIREMENTS OF THE UNDERWRITERS LABORATORIES, INC., "STANDARDS FOR SAFETY" AND SHALL CARRY THE APPROPRIATE LABEL OR LABELS. THE MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH CURRENT FEDERAL, STATE, AND LOCAL ELECTRICAL CODES.

TYPE L-1 LED DOWNLIGHT
LAMP: LED SOLID STATE
FIXTURE WATTAGE/VOLTAGE: 8W/12V

NOTES: LED SOLID STATE ADJUSTABLE SPOTLIGHT WITH FIXTURE CANOPY, SUITABLE FOR EXTERIOR USE, SURFACE MOUNTED ON MAIN GIRDER AND CROSS STRUCTURAL MEMBERS; FOR USE WITH REMOTE TRANSFORMER. LIGHTING FIXTURE COMPONENTS TO INCLUDE AN INTEGRAL LED BOARD, INTERCHANGEABLE OPTIC MODULES WITH PRECISE BEAM SPREAD AND LIGHT OUTPUT [(SP (18 DEGREE) FOR EACH FIXTURE, PLUS (8 QTY) NSP (14 DEGREE)], TO PERMIT FIELD CHANGES TO OPTICAL DISTRIBUTION; CLEAR GLASS LENS AND LINEAR LENS ACCESSORY TO ELONGATE OPTICAL DISTRIBUTION IN DIRECTION PARALLEL TO PARAPET WALLS ('B') AND PERPENDICULAR TO TOP OF ESCALATOR PLATFORM AT ENTRY ('A'). FIXTURE HOUSING, LENS CAP, LED BOARD, OPTIC MODULE AND LENS ACCESSORY TO BE PROVIDED WITH NATURAL PHYSICAL 'STOP'/LOCKING DEVICES TO OBTAIN/ENSURE OPTIMUM LIGHT OUTPUT/FOCUS.

TYPE L-2 FIBER OPTIC LIGHTING SYSTEMS
LAMP: METAL HALIDE
FIXTURE WATTAGE/VOLTAGE: 150W/240V

NOTES: FIBER OPTIC LIGHTING SYSTEM MOUNTED INSIDE CANOPY STEEL STRUCTURE. LIGHTING SYSTEM COMPONENTS TO INCLUDE AN ILLUMINATOR EQUIPPED WITH A METAL HALIDE SOURCE AND INTEGRAL FAN; GLASS FIBER TAILS TO TRANSMIT LIGHT; AND A FIXTURE/LENS ASSEMBLY THAT IS ADJUSTABLE IN TILT AND ROTATION, WITH OPTIONS FOR PRECISE BEAM SPREAD AND LIGHT OUTPUT. ILLUMINATOR SHALL BE COMPOSED OF A SEPARATE LAMP HOUSING COMPONENT AND BALLAST COMPONENT, WHICH CAN BE DISCONNECTED FROM EACH OTHER FOR MAINTENANCE. BALLAST COMPONENT SHALL BE CONNECTED TO POWER SUPPLY VIA 20 AMP GROUNDING NEMA 15-20 TWIST LOCK PLUG. FITTINGS TO BE ALUMINUM, NATURAL FINISH. FIBER OPTIC LIGHTING SYSTEM SHALL BE SUITABLE FOR EXTERIOR USE.

ILLUMINATOR
MHI-METAL HALIDE ILLUMINATOR (MODIFIED TO "FIT" WITHIN THE LONGITUDINAL GIRDERS AND BE COMPLETELY ACCESSIBLE)

FIBER BUNDLES
FIBER BUNDLES MUST BE SIZED/COORDINATED WITH ILLUMINATOR AND FITTING SPECIFICATION TO MAINTAIN LIGHT LEVEL CRITERIA

FITTINGS
FO-I: CIRCULAR PLATE WITH TIGHT BEAM (RECESSED) FO-I FITTING SHALL BE RECESSED IN LONGITUDINAL GIRDER, ADJUSTED TO OPPOSITE GIRDER WITH OPTICAL PROPERTIES AS DEPICTED IN LIGHTING PLAN; DELIVERING AN EVEN MINIMUM/MAINTAINED LIGHT LEVEL OF 10 FOOTCANDLES ON THE OPPOSITE GIRDER.
FO-O: CIRCULAR PLATE WITH SPREAD LENS (RECESSED) FO-O FITTING SHALL BE RECESSED IN LONGITUDINAL GIRDER, ADJUSTED OUTWARD WITH OPTICAL PROPERTIES AS DEPICTED IN LIGHTING PLAN; DELIVERING AN EVEN MINIMUM/MAINTAINED LIGHT LEVEL OF 5 FOOTCADLES ON PERIMETER BEAM.

DESIGNED	LOURIE & CHENOWETH LLC	08/2006 DATE
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IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

TYPICAL ESCALATOR CANOPY LIGHTING DETAILS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-ESCC-011	90 OF 183

ABBREVIATIONS

AC	ACOUSTIC
A/C	AIR CONDITION
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
∠	ANGLE
AOR	AREA OF REFUGE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
@	AT
AVE	AVENUE
AVG	AVERAGE
ADJ	ADJUSTABLE
BET	BETWEEN
BD	BOARD
BTM	BOTTOM
BLVD	BOULEVARD
BLDG	BUILDING
BIT	BITUMINOUS
CIP	CAST–IN–PLACE
CLG	CEILING
℄	CENTER LINE
CT	CERAMIC TILE
CIR	CIRCLE
CL or CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CMU	CONCRETE MASONRY UNIT
CONST	CONSTRUCTION
CSK	COUNTERSUNK
DMPFG	DAMPPROOFING
DEG or °	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EA	EACH
ELEC	ELECTRIC
EL	ELEVATION
ENT	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST or EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
ETEC	EMERGENCY TUNNEL EVACUATION CART
FT	FEET
FIN	FINISH
FIX	FIXTURE
FL or FLR	FLOOR
FLUOR	FLUORESCENT
FDN	FOUNDATION
GALV	GALVANIZED
GL	GLASS
GOVT	GOVERNMENT
GYP	GYPSUM
HT	HEIGHT
HEX	HEXAGONAL
HORIZ or HOR	HORIZONTAL
HR	HOUR
IN	INCH
INFOR	INFORMATION
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JT	JOINT
KO	KNOCK OUT
LAV	LAVATORY
LT	LIGHT
MACH	MACHINE
MFR	MANUFACTURER
MAT	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
MET	METAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO. or #	NUMBER
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OH	OPPOSITE HAND
OD	OUTSIDE DIAMETER
PTD	PAINTED
±	PLUS/MINUS
PLYWD	PLYWOOD
PT	POINT
POL	POLISH
LB	POUND
PSI	POUNDS PER SQUARE INCH
PC	PRECAST
PREFAB	PREFABRICATION
PREP	PREPARATION
PROP	PROPERTY
P PL	PLATE/PROPERTY LINE
R	RADIUS
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REG	REGULAR
REINF	REINFORCING
REV	REVISED
RM	ROOM
RO	ROUGH OPENING
SEAL	SEALANT
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
ST	STREET/STAINLESS
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICK
THRU	THROUGH
T/R	TOP OF RAIL
TYP	TYPICAL
TO	TOP OF
UNFIN	UNFINISHED
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VENT	VENTILATION
WPFG	WATERPROOFING
WT	WEIGHT
W/	WITH
W/O	WITHOUT
WP	WORKING POINT

MATERIALS

- BRICK
- CEMENT/MORTAR/SAND
- CONCRETE–PRECAST–CAST IN PLACE
- CONCRETE MASONRY UNIT
- GRAVEL
- CRUSHED STONE
- EARTH
- INSULATION – BATT/BLANKET
- INSULATION – RIGID
- STEEL
- ALUMINUM
- PLASTER
- PLYWOOD
- CERAMIC TILE
- FINISHED WOOD
- WOOD BLOCKING

SYMBOLS

NORTH ARROW
(SYMBOL DIA: 3/4")

GRAPHIC SCALE
(TEXT HT: 1/8")

0 6' 1' 2'

TITLE –
DETAIL/SECTION/ELEVATION

3 DETAIL
DD–A–PF–026 MISC INFO
SCALE: NOT TO SCALE

DETAIL NUMBER
(TEXT HT: 3/16" WIDTH: .9)
TITLE
(TEXT HT: 3/16" WIDTH: .9)
MISCELLANEOUS INFORMATION
(TEXT HT: 1/8" WIDTH: .9)
SCALE OF DRAWING
(TEXT HT: 1/8" WIDTH: .9)
DRAWING NUMBER
(TEXT HT: 1/8" WIDTH: .9)

DETAIL
REFERENCE
(BUBBLE DIA: 9/16")

2 / A102

DETAIL NUMBER
(TEXT HT: 1/8" WIDTH: .9)
CURRENT SHEET
(TEXT HT: 1/8" WIDTH: .9)

DETAIL SECTION
(BUBBLE DIA: 9/16")
(SECTION TAIL – LINE WIDTH:1/16")

8 / A106

DETAIL NUMBER
(TEXT HT: 1/8" WIDTH: .9)
DETAIL LOCATION
(TEXT HT: 1/8" WIDTH: .9)

ELEVATION (BUBBLE
DIA: 7/16")

A / A103 / B

ELEVATION LETTER W/ FILL
AT NOTED ELEVATIONS ONLY
(TEXT HT: 1/8" WIDTH: .9)
ELEVATION LOCATION
(TEXT HT: 1/8" WIDTH: .75)

COLUMN LINE
(BUBBLE DIA: 7/16")

ROOM DESIGNATION
(TEXT BOX: 9/16" x 3/16")
(TEXT HT: 1/8" WIDTH: 1)

ROOM NAME
110

DOOR NUMBER
(TEXT BOX: 9/16" x 3/16")
(TEXT HT: 1/8" WIDTH: 1)

110

WINDOW, LOUVER TYPE
(TEXT BOX: 9/16" x 3/16")
(TEXT HT: 1/8" WIDTH: 1)

W–1 L–1

DIMENSION
(DIMTICK: 1/16")

DIMENSION/DIRECTION POINT
(ARROW HEAD: 1/8")

EXISTING CONTOUR
(TEXT HT: 1/8" WIDTH: .8)

30

NEW CONTOUR
(TEXT HT: 1/8" WIDTH: .8)

30

ELEVATION – EXISTING GRADE
(TEXT HT: 9/64" WIDTH: .8)

18.5

ELEVATION – NEW GRADE
(TEXT HT: 9/64" WIDTH: .8)

18.5

ELEVATION –
DETAIL/SECTION/ELEVATION
(TEXT HT: 9/64" WIDTH: .8)
(SYMBOL DIA: 1/8")

18'–5"

DESIGNED	P FANFULIK	09/2016 DATE
DRAWN	P FANFULIK	09/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

ABBREVIATIONS, MATERIALS, AND SYMBOLS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	NOT TO SCALE	DD-A-FIN-001	91 OF 183

FACILITY	STRUCTURE	CONCRETE		FORM TYPE			FINISH TYPES								REMARKS
		POURED IN PLACE	PRECAST	FIBERGLASS, PLASTIC, COATED PLYWD, STEEL, OR HARDBOARD	UNCOATED PLYWOOD	4" VERTICAL WOOD BOARD FORMS	NO. 1 FORM FINISH	NO. 2 WET RUBBED FINISH	NO. 3 BROOMED FINISH	NO. 4 STEEL TROWELLED FINISH	NO. 5 WOOD FLOAT FINISH	NO. 6 SANDBLAST SEALER FINISH	NO. 7 NATURAL BOARD FINISH	NO. 8 ABRASIVE AGGREGATE FINISH	
BELOW GROUND STATIONS	ENTRANCE ESCALATORWAY – SLOPING CEILINGS	●		●			●					●			DESIGNER INDICATES FINISH ON WORKING DRAWINGS
	ENTRANCE ESCALATORWAY – CONCRETE WALLS	●				●						●	●		DESIGNER INDICATES FINISH ON WORKING DRAWINGS
	PASSAGEWAY – WALLS & COVE @ CEILINGS & BASE	●		●			●					●			
	COLUMNS & SOFFITS UNDER MEZZANINE	●		●			●					●			ORIENT COLUMN VERTICAL FORM JOINT PARALLEL TO LONG AXIS OF STATION
	STATION VAULT	●	WHERE REQD. BY STA DESIGN	●			●					●			NO SANDBLAST REQUIRED WHERE CONCRETE IS COVERED BY ACOUSTIC PANELS
	STATION END WALLS	●				●						●	●		
	PLATFORM & MEZZANINE PARAPETS		●	●								●			
	LIGHT TROUGH CURBS	●			●		●								
	ANCILLARY ROOM WALLS, CEILINGS & COLUMNS	●			●		●								ANCILLARY ROOM WALL OPENINGS THAT ARE REMOVABLE SHALL BE CMU KNOCKOUT PANELS
	ANCILLARY ROOM FLOORS	●								●	●				NO. 4 FINISH WHERE EXPOSED NO. 5 FINISH WHERE COVERED BY OTHER MATERIAL
	TRACKBED	●									●				
	SAFETY WALK & STAIRS	●							●					●	PROVIDE NO. 8 FINISH ONLY ON STAIR TREADS
	100 FT. OF TUNNEL WALLS, CEILINGS & COLUMNS BEYOND END OF STATION PLATFORM	●			●		●								
ABOVE GROUND STATIONS OPEN CUT STATIONS ON-GRADE STATIONS AERIAL STATIONS	ENTRANCE ESCALATORWAY – WALLS	●		●		●						●	●		
	ENTRANCE ESCALATORWAY – SLOPED CEILINGS	●		●			●					●			
	PASSAGEWAY – WALLS & COVE @ CEILINGS	●		●			●					●			
	MEZZANINE – WALLS	●				●						●	●		
	MEZZANINE – CEILINGS	●		●			●					●			
	STRUCTURE WITHIN STATION AREA	●		●			●					●			
	CANOPIES	●		●			●					●			
	PLATFORM END WALLS	●				●						●	●		
	SIDEWALKS, STAIRS & RAMPS	●							●					●	PROVIDE NO. 8 FINISH ONLY ON STAIR TREADS
	CURBS & GUTTERS	●		●						●					
	ANCILLARY ROOM FLOORS	●								●	●				NO. 4 FINISH WHERE EXPOSED NO. 5 FINISH WHERE COVERED BY OTHER MATERIAL
	ANCILLARY ROOM INTERIOR WALLS, CEILINGS & COLUMNS	●			●		●								
	ANCILLARY ROOM EXTERIOR WALLS	●		●		●						●			
AERIAL AND SURFACE TRACK LINE STRUCTURES	RETAINING WALLS, PORTAL & ABUTMENT WALLS	●			●		●					●			USE 4" VERT WD BOARDFORMS & NO. 7 FINISH AT LOCATIONS SHOWN IN GENERAL PLANS
	SUBSTATION EXTERIOR WALLS	●	WHERE REQD. BY STA DESIGN	●								●			ONLY APPLICABLE WHERE MASONRY CONSTRUCTION IS NOT USED
	TRACKBEDS	●									●				
	AERIAL TRACK PIERS, COLUMNS & BENTS	●		●			●					●			
	AERIAL TRACKBED GIRDERS	●	WHERE REQD. BY STA DESIGN	●			●					●			

GENERAL NOTES

1. WHERE FORM TIES OCCUR IN FINISHED WALLS USE TIE CONES WITH SYMMETRICAL SPACING. FILL TIE HOLES WITH SAME CONCRETE AS SURROUNDING AREA TO WITHIN 1/4" OF SURFACE BEFORE FINISHING.
2. LOCATE FORM PANEL JOINTS AT REVEALS.
3. CONCRETE SURFACES COVERED BY ACOUSTIC PANELS TO HAVE UNCOATED PLYWOOD FORMS AND NO.1 FORM FINISH.

DESIGNED P FANFULIK 09/2016 DATE
DRAWN P FANFULIK 09/2016 DATE
CHECKED I KARADIMOV 10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

STATION EXPOSED CONCRETE FINISHES

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	NOT TO SCALE	DD-A-FIN-002	92 OF 183

STATION ANCILLARY AREAS FINISH SCHEDULE

ROOM NO.	AREA NAME	FLOOR MATERIALS	FLOOR FINISH	BASE MATERIALS	BASE FINISH	WALL MATERIALS	WALL FINISH	CEILING MATERIALS	CEILING FINISH	CEILING HEIGHT	REMARKS
1	MECHANICAL ROOM	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	EPOXY COAT TO 4'-0" AFF	EXPOSED	----------	----------	
2	A/C SWITCHBOARD ROOM	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
3	BATTERY ROOM	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
4	COMMUNICATIONS ROOM	STATIC-DISSIPATIVE TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	EXPOSED	----------	----------	1 HR FIRE-RATED ENCLOSURE
5	TRAIN CONTROL ROOM	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	EXPOSED	----------	8'-0" MINIMUM	
6	OPERATIONS ROOM	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	EXPOSED	----------	----------	
7	TELECOM ROOM	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	EXPOSED	----------	----------	
8	FIRE EQUIPMENT CABINET	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
9	CLEANERS' ROOM	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
10	CLEANERS' ROOM WITH EJECTOR	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
11	WOMEN'S WASHROOM	QUARRY TILE	UNGLAZED	QUARRY TILE	UNGLAZED	CERAMIC TILE	GLAZED	GYPSUM BOARD	PAINTED	8'-0"	
12	MEN'S WASHROOM	QUARRY TILE	UNGLAZED	QUARRY TILE	UNGLAZED	CERAMIC TILE	GLAZED	GYPSUM BOARD	PAINTED	8'-0"	
13	WATER SERVICE ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
14	D.C. TIE BREAKER ROOM	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
15	BUS DRIVERS' WASHROOM	QUARRY TILE	UNGLAZED	QUARRY TILE	UNGLAZED	CERAMIC TILE	GLAZED	GYPSUM BOARD	PAINTED	8'-0"	
16	DISPATCHER ROOM	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	ACT	----------	----------	
17	TRAIN OPERATORS' ROOM/BREAKROOM	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	ACT	----------	----------	
18	TRAIN OPERATORS' WASHROOMS (MEN'S AND WOMEN'S)	QUARRY TILE	UNGLAZED	QUARRY TILE	UNGLAZED	CERAMIC TILE	GLAZED	GYPSUM BOARD	PAINTED	8'-0"	
19	MAINTENANCE ROOM	CONCRETE	STEEL TROWELED W/SEALER	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
20	TRAIN OPERATORS' LOCKER ROOMS (MEN'S AND WOMEN'S)	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	ACT	----------	8'-0"	
21	TRANSFORMER ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
22	ELEVATOR MACHINE ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	7'-0" CLEAR MINIMUM	HYDRAULIC – 220 SF MINIMUM TRACTION – 224 SF MINIMUM
23	SEWAGE EJECTOR ROOM	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
24	CART STORAGE	CONCRETE	STEEL TROWELED W/SEALER	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
25	ELECTRICAL CABINET ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
26	POLICE SERVICE ROOM	VINYL COMPOSITION TILE	FACTORY FINISH	4" HIGH RUBBER	FACTORY FINISH	CMU/CONCRETE	PAINTED	ACT	----------	8'-0"	
27	EMERGENCY TUNNEL EXCAVATION CART STORAGE ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
28	AREA OF REFUGE	CONCRETE	STEEL TROWELED W/SEALER	----------	----------	CMU/CONCRETE	PAINTED	EXPOSED	----------	8'-0" MINIMUM	
29	SERVICE CORRIDORS	CONCRETE	STEEL TROWELED W/SEALER	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	8'-0" MINIMUM	
30	SERVICE/EMERGENCY STAIRS	CONCRETE/STEEL	STEEL TROWELED W/SEALER	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	HOT-DIPPED GALVANIZED HANDRAILS/GUARDRAILS CAST ALUMINUM NOSING IN CONCRETE TREADS
31	CHASE/CABLE SPACE	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
32	ESCALATOR CONTROL ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	7'-0" CLEAR MINIMUM	168 SF MINIMUM
33	YARD STORAGE ROOM	CONCRETE	STEEL TROWELED	----------	----------	CMU/CONCRETE	----------	EXPOSED	----------	----------	
34	DRAINAGE PUMPING STATIONS INCLUDING WET & DRY PITS	CONCRETE	STEEL TROWELED W/EPOXY COAT	----------	----------	CONCRETE	EPOXY	CONCRETE	EPOXY	----------	

NOTES

1. FOR ANCILLARY AREAS NOT LISTED IN THIS SCHEDULE USE FINISH MATERIALS FOR ROOM NO. 1.

DESIGNED P FANFULIK 09/2016 DATE
DRAWN P FANFULIK 10/2016 DATE
CHECKED I KARADIMOV 10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

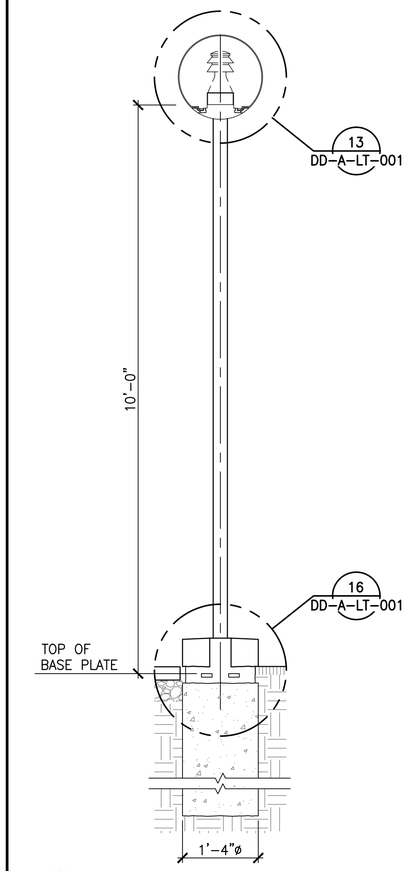
APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

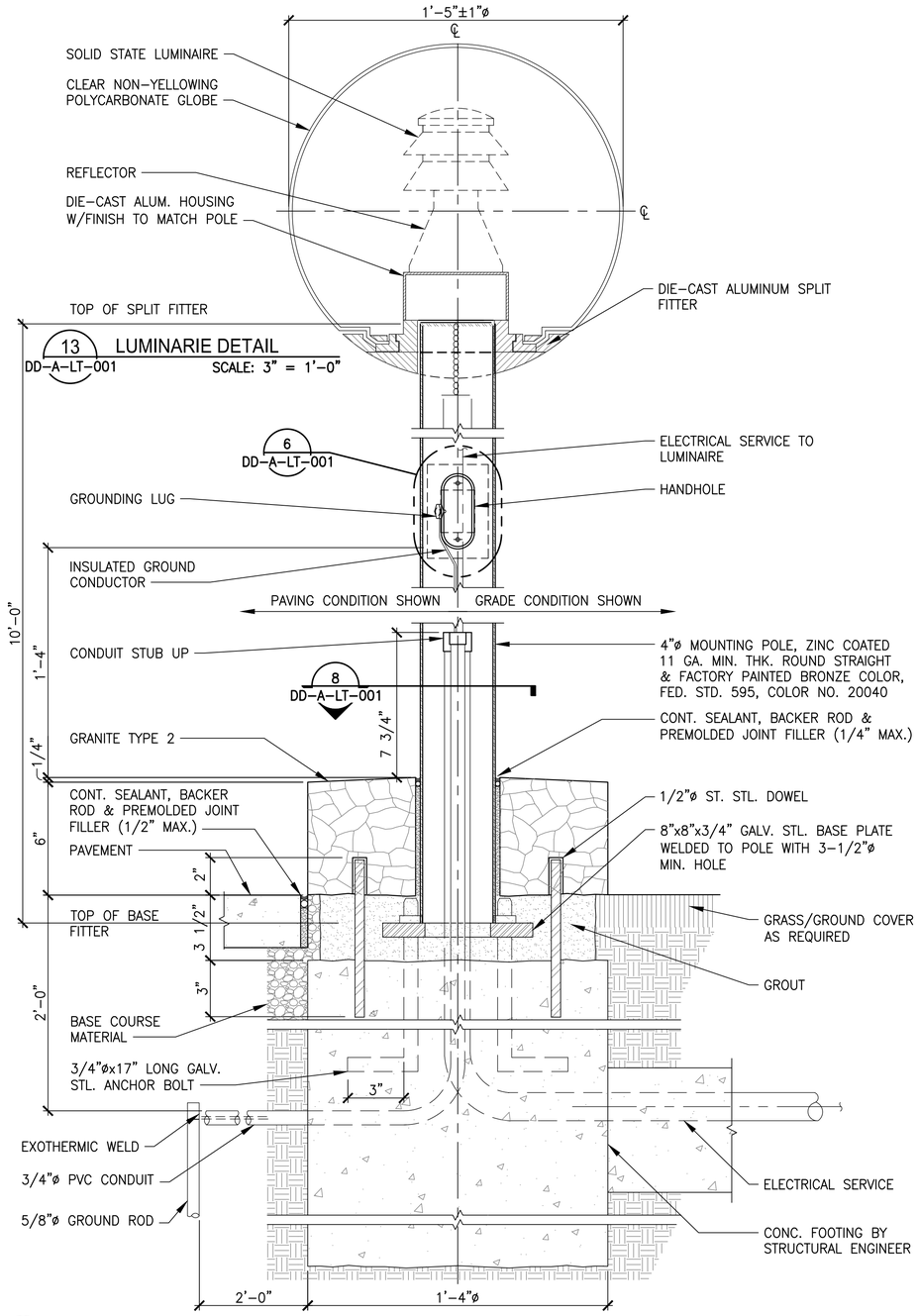
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

STATION ANCILLARY AREAS FINISH SCHEDULE

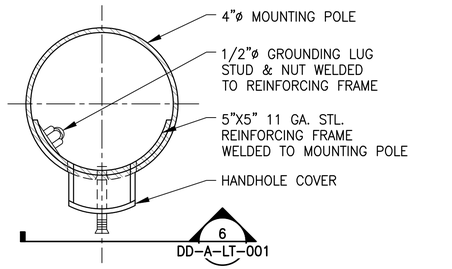
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	NOT TO SCALE	DD-A-FIN-003	93 OF 183



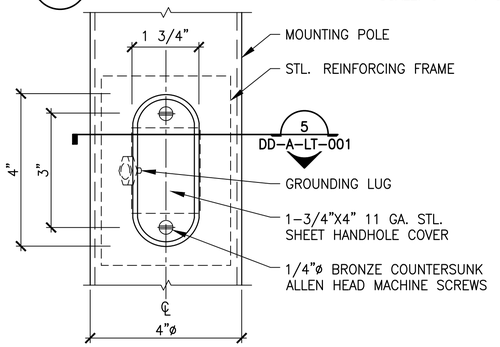
20 ELEVATION / SECTION 97G-10
DD-A-LT-001 SCALE: 3/4" = 1'-0"



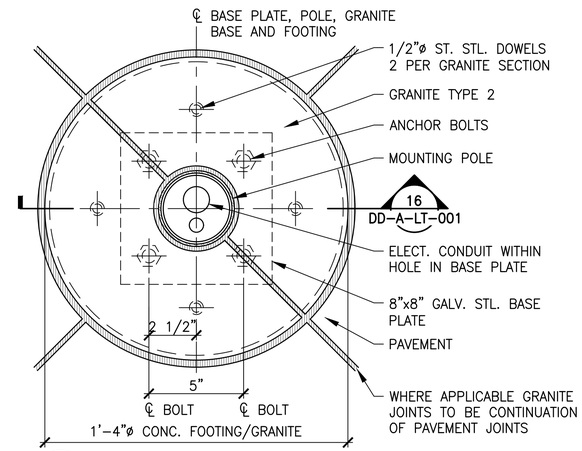
16 BASE PLAN 97G-10
DD-A-LT-001 SCALE: 3" = 1'-0"



5 HANDHOLE / POLE SECTION
DD-A-LT-001 SCALE: 6" = 1'-0"



6 HANDHOLE ELEVATION
DD-A-LT-001 SCALE: 6" = 1'-0"



8 FOOTING SECTION 97G-10
DD-A-LT-001 SCALE: 3" = 1'-0"

GENERAL NOTES:

1. U.L. CERTIFICATION: PROVIDE FIXTURES CONFORMING TO N.E.C. REQUIREMENTS FOR WET LOCATIONS.
2. TYPE 5 DISTRIBUTION.
3. PROVIDE TEMPORARY CONDUIT CAPS DURING CONDUIT ROUGH-IN TO ENSURE THE EXCLUSION OF DIRT DURING SUBSEQUENT CONSTRUCTION & UNTIL INSTALLATION OF LUMINAIRE.
4. CONCRETE FOOTING BY STRUCTURAL ENGINEER.

DESIGNED	T. LOCKART	06/13/16 DATE
DRAWN	D. CHASE	06/13/16 DATE
CHECKED	I. KARADIMOV	10/20/16 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

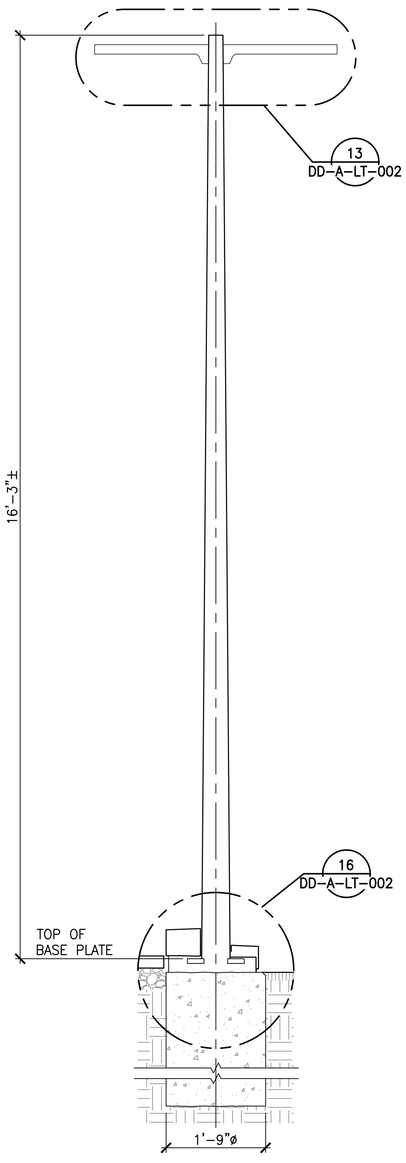
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED TIFFANY LOCKHART DESIGN COORDINATOR 08/24/17 DATE

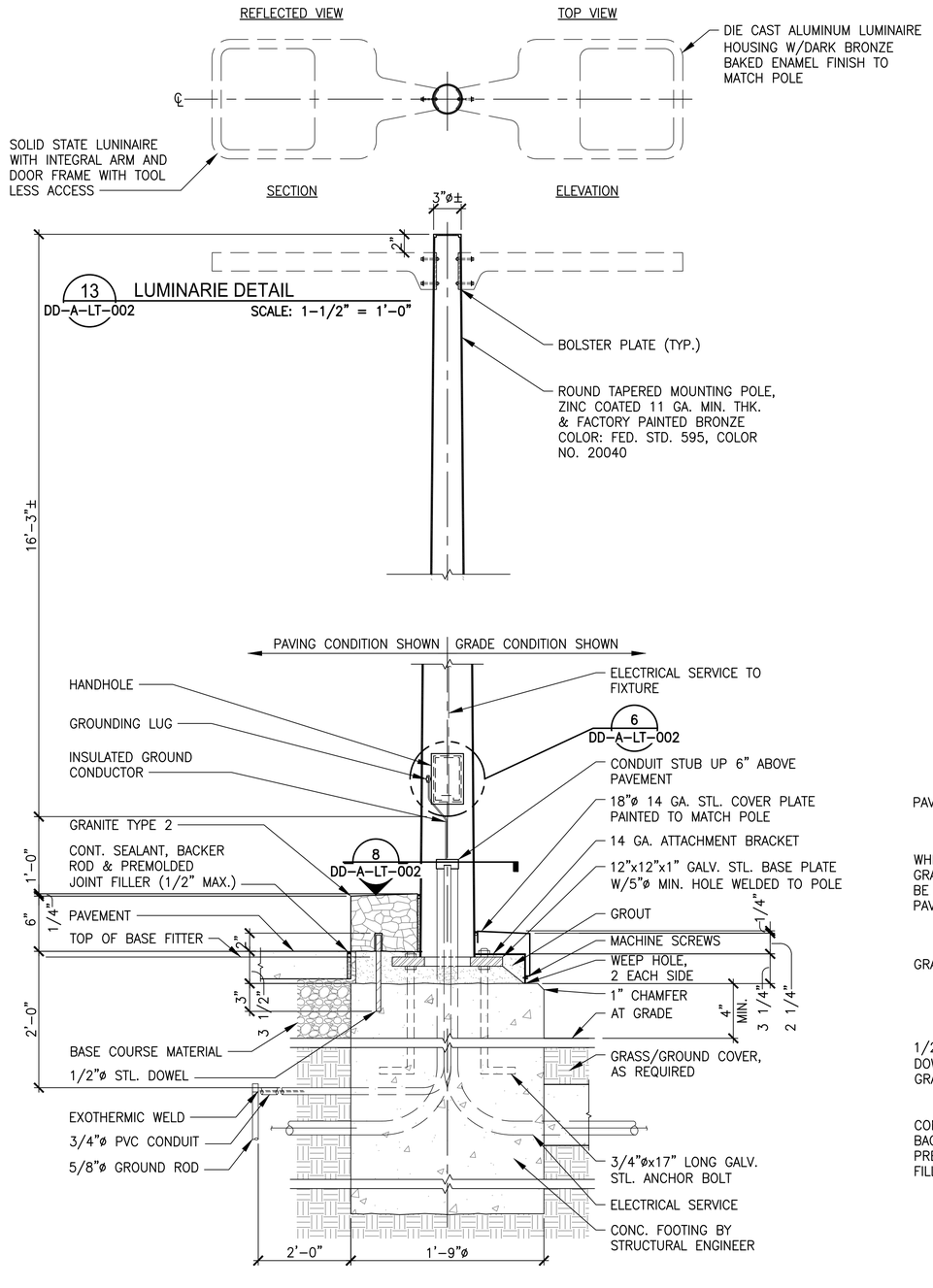
APPROVED IVAILO KARADIMOV MANAGER OF ARCHITECTURE 08/24/17 DATE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS EXTERIOR LUMINAIRE 97G-10 ELEVATIONS, SECTIONS AND DETAILS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-LT-001	94 OF 183

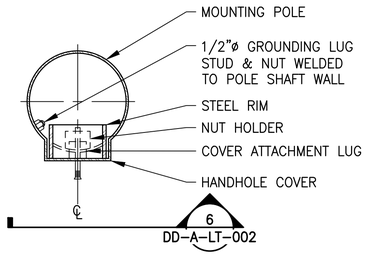


20 ELEVATION / SECTION 97G-15
DD-A-LT-002 SCALE: 3/4" = 1'-0"

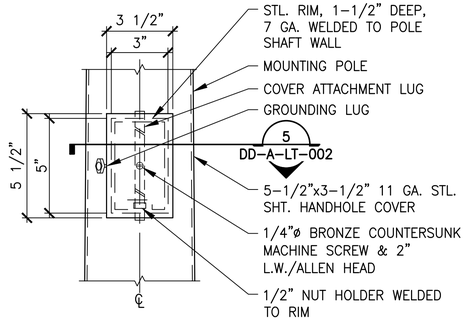


16 BASE PLAN 97G-15
DD-A-LT-002 SCALE: 1-1/2" = 1'-0"

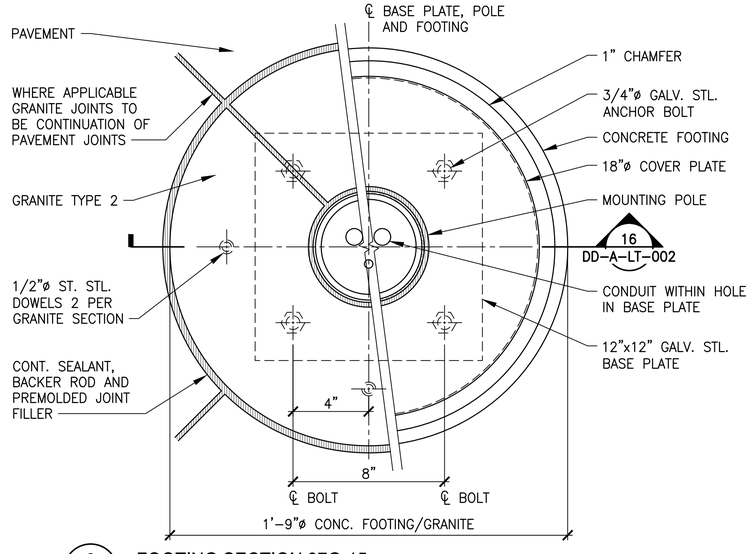
13 LUMINARIE DETAIL
DD-A-LT-002 SCALE: 1-1/2" = 1'-0"



5 HANDHOLE / POLE SECTION
DD-A-LT-002 SCALE: 3" = 1'-0"



6 HANDHOLE ELEVATION
DD-A-LT-002 SCALE: 3" = 1'-0"



8 FOOTING SECTION 97G-15
DD-A-LT-002 SCALE: 3" = 1'-0"

GENERAL NOTES:

1. U.L. CERTIFICATION: PROVIDE LUMINAIRE CONFORMING TO N.E.C. REQUIREMENTS FOR WET LOCATIONS.
2. PROVIDE TEMPORARY CONDUIT CAPS DURING CONDUIT ROUGH-IN TO ENSURE THE EXCLUSION OF DIRT DURING SUBSEQUENT CONSTRUCTION & UNTIL INSTALLATION OF LUMINAIRE.
3. CONCRETE FOOTING BY STRUCTURAL ENGINEER.

DESIGNED	T. LOCKHART	06/13/16 DATE
DRAWN	D. CHASE	06/13/16 DATE
CHECKED	I. KARADIMOV	10/20/16 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

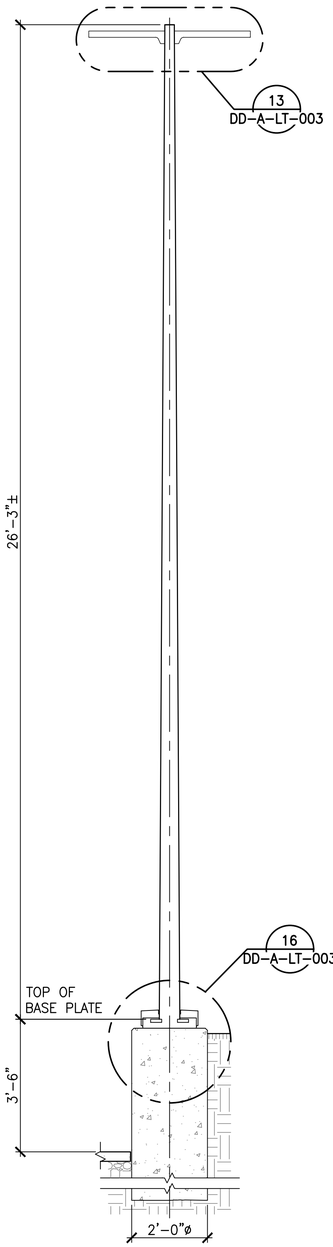
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED TIFFANY LOCKHART, DESIGN COORDINATOR 08/24/17 DATE

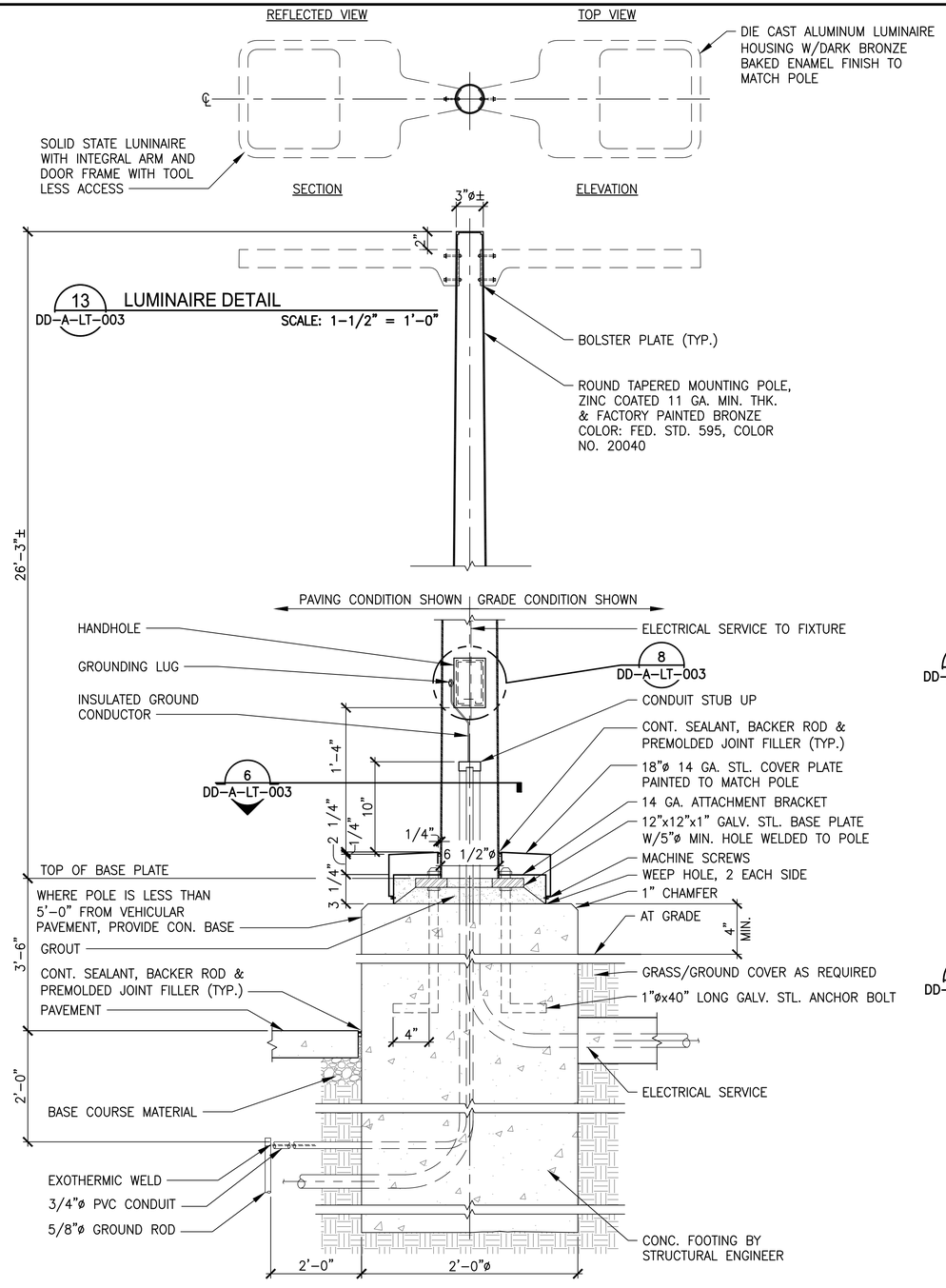
APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE 08/24/17 DATE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
EXTERIOR LUMINAIRE 97G-15
ELEVATIONS, SECTIONS AND DETAILS

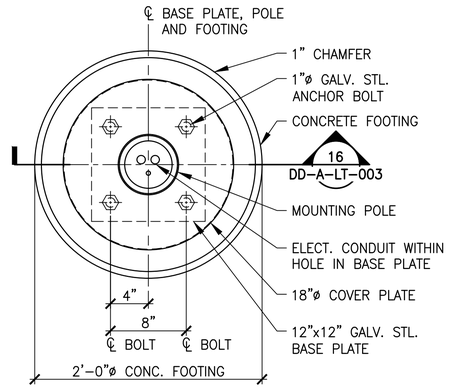
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-LT-002	95 OF 183



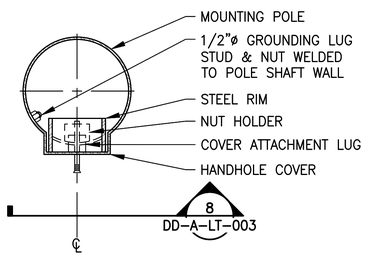
20 ELEVATION / SECTION 97G-25
DD-A-LT-003 SCALE: 1/2" = 1'-0"



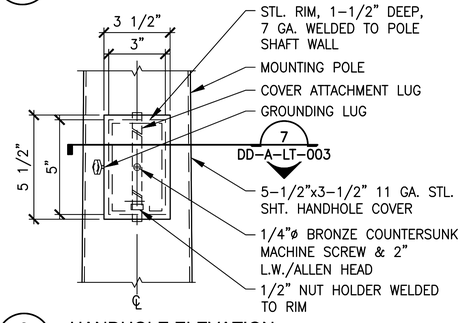
16 BASE PLAN 97G-25
DD-A-LT-003 SCALE: 1-1/2" = 1'-0"



6 FOOTING SECTION 97G-25
DD-A-LT-003 SCALE: 1-1/2" = 1'-0"



7 HANDHOLE / POLE SECTION
DD-A-LT-003 SCALE: 3" = 1'-0"



8 HANDHOLE ELEVATION
DD-A-LT-003 SCALE: 3" = 1'-0"

GENERAL NOTES:

1. U.L. CERTIFICATION: PROVIDE LUMINAIRE CONFORMING TO N.E.C. REQUIREMENTS FOR WET LOCATIONS.
2. PROVIDE TEMPORARY CONDUIT CAPS DURING CONDUIT ROUGH-IN TO ENSURE THE EXCLUSION OF DIRT DURING SUBSEQUENT CONSTRUCTION & UNTIL INSTALLATION OF LUMINAIRE.
3. CONCRETE FOOTING BY STRUCTURAL ENGINEER.

DESIGNED	T. LOCKHART	06/13/16 DATE
DRAWN	D. CHASE	06/13/16 DATE
CHECKED	I. KARADIMOV	10/20/16 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

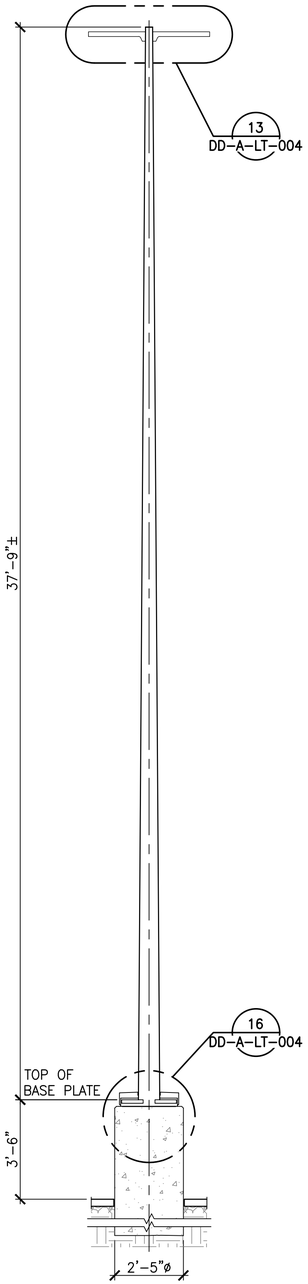
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 09/08/17 DATE
TIFFANY LOCKHART
DESIGN COORDINATOR

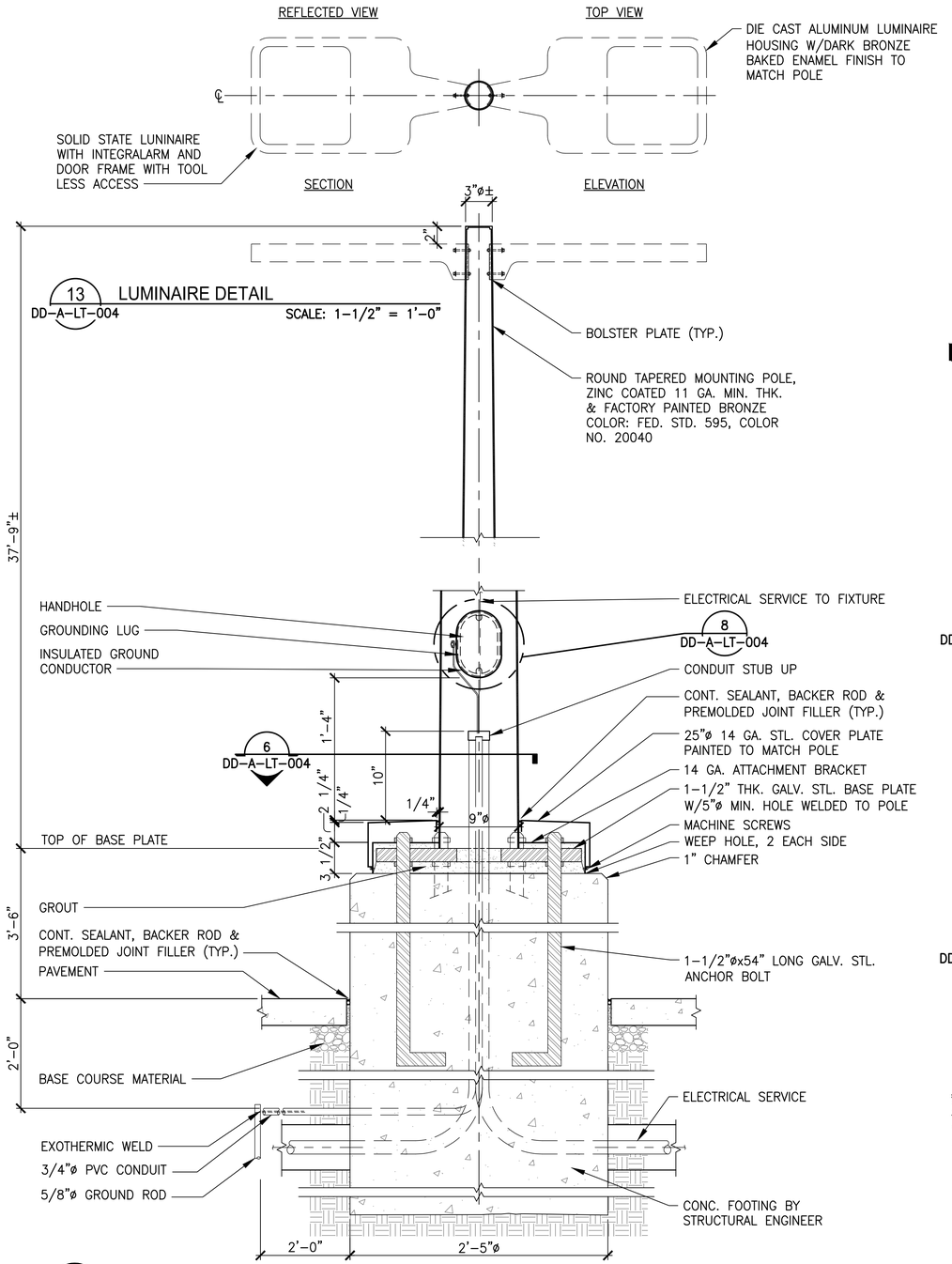
APPROVED 09/08/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
EXTERIOR LUMINAIRE 97G-25
ELEVATIONS, SECTIONS AND DETAILS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-LT-003	96 OF 183

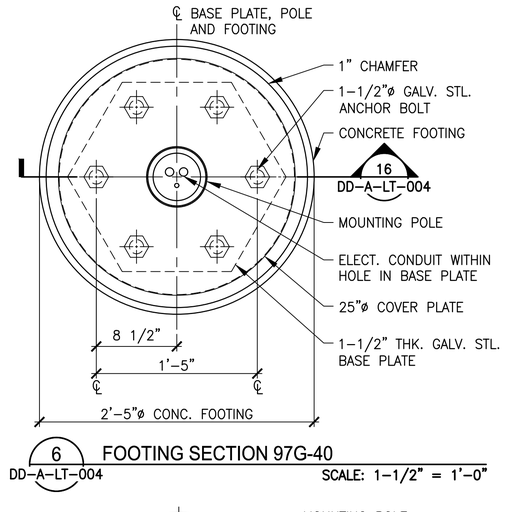


20 ELEVATION / SECTION 97G-40
DD-A-LT-004 SCALE: 3/8" = 1'-0"



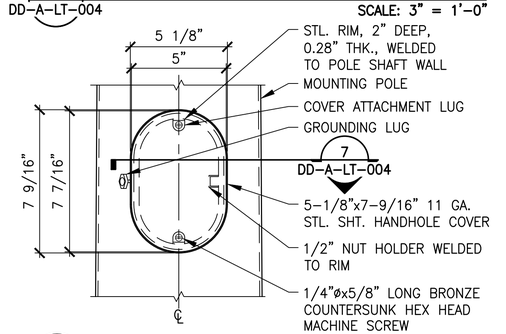
13 LUMINAIRE DETAIL
DD-A-LT-004 SCALE: 1-1/2" = 1'-0"

16 BASE PLAN 97G-40
DD-A-LT-004 SCALE: 1-1/2" = 1'-0"



6 FOOTING SECTION 97G-40
DD-A-LT-004 SCALE: 1-1/2" = 1'-0"

7 HANDHOLE / POLE SECTION
DD-A-LT-004 SCALE: 3" = 1'-0"



8 HANDHOLE ELEVATION
DD-A-LT-004 SCALE: 3" = 1'-0"

GENERAL NOTES:

1. U.L. CERTIFICATION: PROVIDE LUMINAIRE CONFORMING TO N.E.C. REQUIREMENTS FOR WET LOCATIONS.
2. PROVIDE TEMPORARY CONDUIT CAPS DURING CONDUIT ROUGH-IN TO ENSURE THE EXCLUSION OF DIRT DURING SUBSEQUENT CONSTRUCTION & UNTIL INSTALLATION OF LUMINAIRE.
3. CONCRETE FOOTING BY STRUCTURAL ENGINEER.

DESIGNED	T. LOCKHART	06/13/16 DATE
DRAWN	D. CHASE	06/13/16 DATE
CHECKED	I. KARADIMOV	10/20/16 DATE

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
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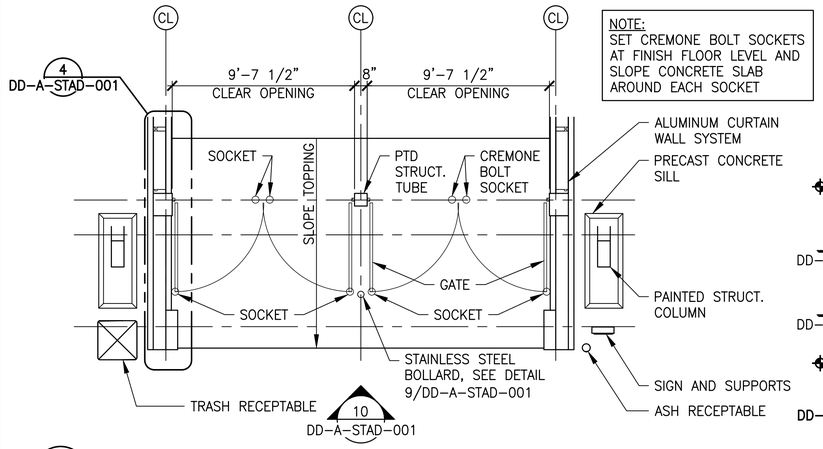
APPROVED 09/08/17 DATE
TIFFANY LOCKHART
DESIGN COORDINATOR

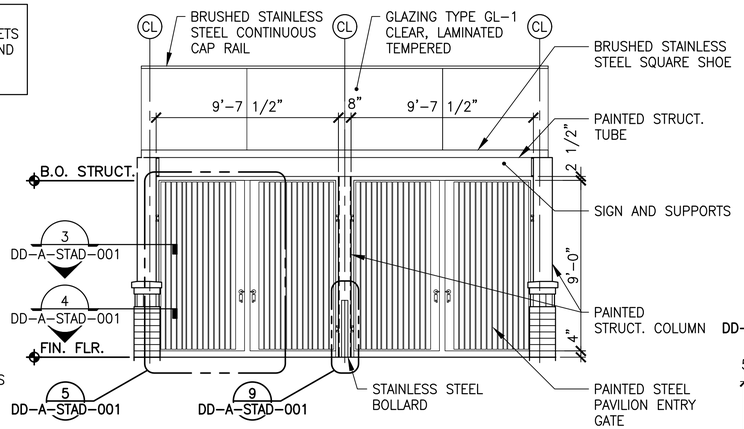
APPROVED 09/08/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
EXTERIOR LUMINAIRE 97G-40
ELEVATIONS, SECTIONS AND DETAILS

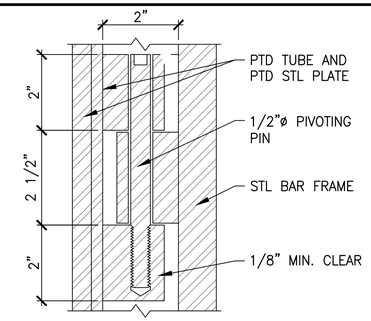
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-LT-004	97 OF 183



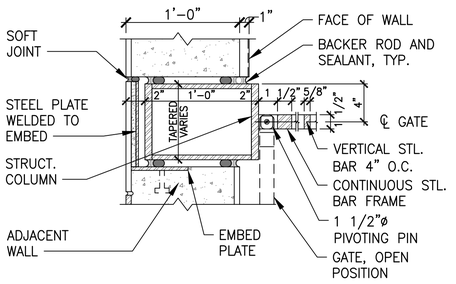
11 ENTRY PLAN
DD-A-STAD-001
SCALE: 1/4"=1'-0"



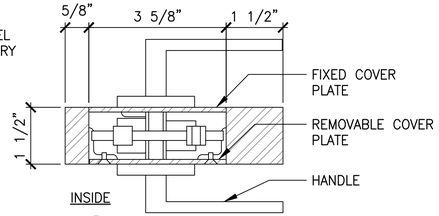
10 ENTRY ELEVATION
DD-A-STAD-001
SCALE: 1/4"=1'-0"



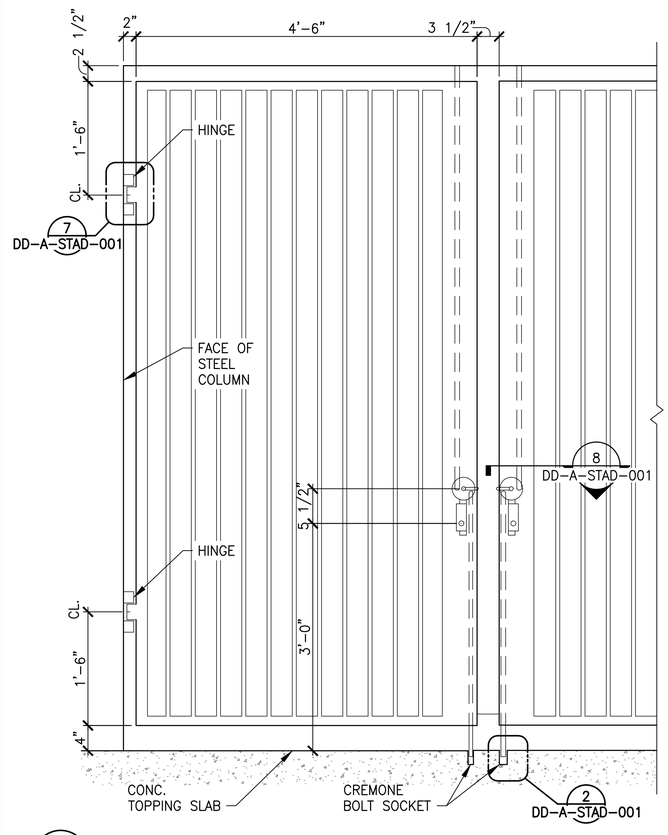
7 HINGE DETAIL
DD-A-STAD-001
SCALE: 6"=1'-0"



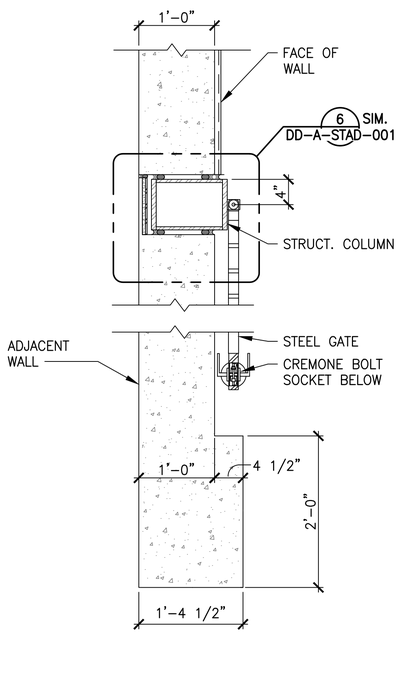
6 GATE DETAIL
DD-A-STAD-001
SCALE: 1 1/2"=1'-0"



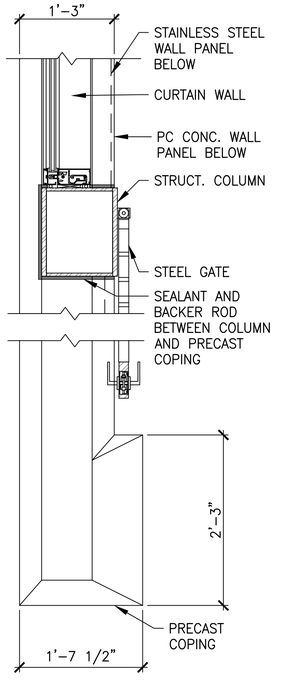
8 HANDLE DETAIL
DD-A-STAD-001
SCALE: 6"=1'-0"



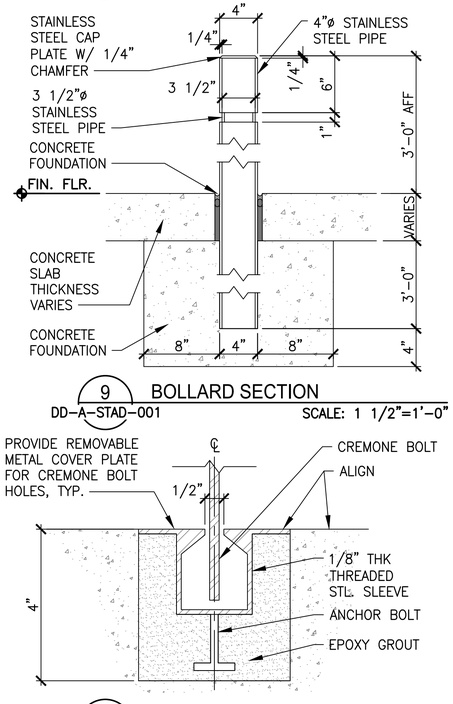
5 GATE ELEVATION
DD-A-STAD-001
SCALE: 1"=1'-0"



4 PLAN DETAIL
DD-A-STAD-001
SCALE: 1"=1'-0"

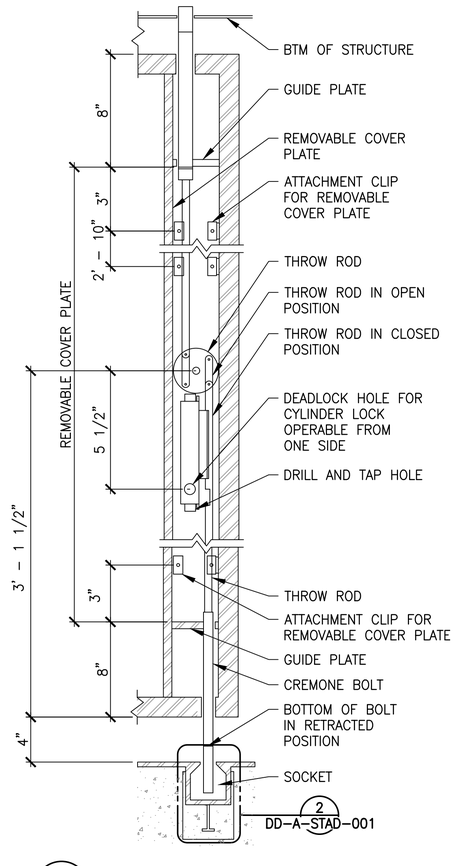


3 PLAN DETAIL
DD-A-STAD-001
SCALE: 1"=1'-0"



9 BOLLARD SECTION
DD-A-STAD-001
SCALE: 1 1/2"=1'-0"

2 SOCKET DETAIL
DD-A-STAD-001
SCALE: 6"=1'-0"



1 CREMONE BOLT DETAIL
DD-A-STAD-001
SCALE: 6"=1'-0"

DESIGNED	P. FANFULIK	06/13/16 DATE
DRAWN	D. CHASE	06/13/16 DATE
CHECKED	I. KARADIMOV	10/20/16 DATE

REFERENCE DRAWINGS

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REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

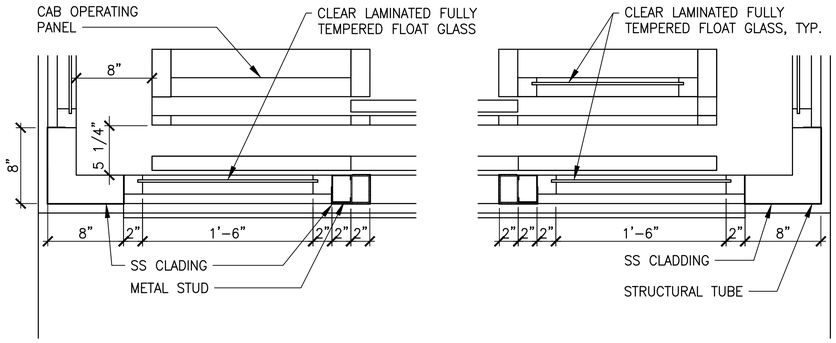
APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

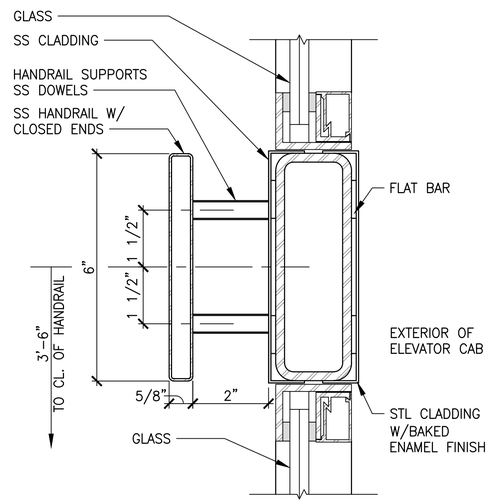
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

STATION ENTRANCE GATE DETAILS

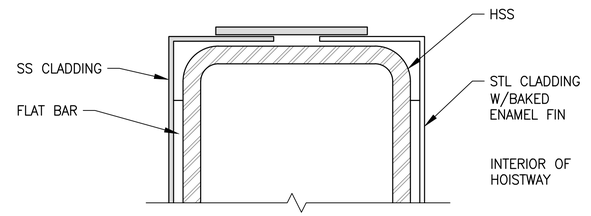
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-STAD-001	98 OF 183



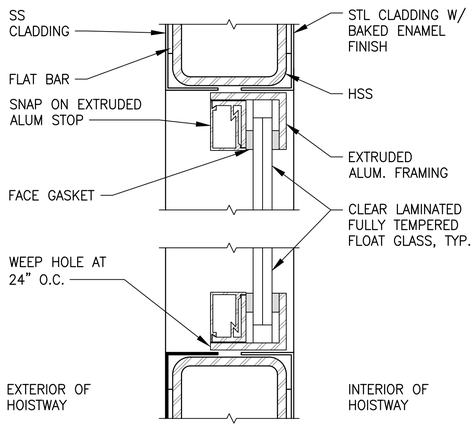
8 ELEVATOR DETAIL
DD-A-VTEL-003
SCALE: 1 1/2"=1'-0"



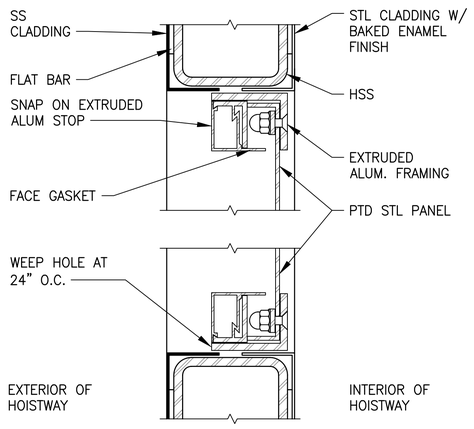
7 CAB HANDRAIL DETAIL
DD-A-VTEL-003
SCALE: 6"=1'-0"



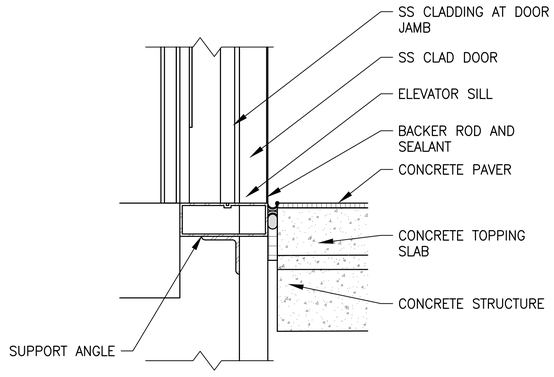
3 TOP OF HOISTWAY DETAIL
DD-A-VTEL-003
SCALE: 1'-0"=1'-0"



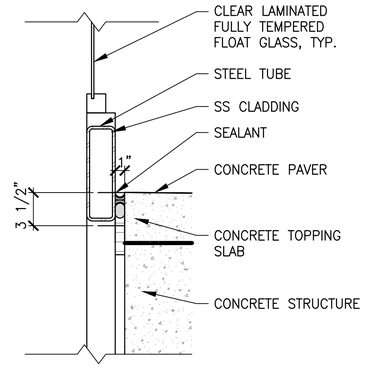
5 HOISTWAY - GLAZING HEAD AND JAMB
DD-A-VTEL-003
SCALE: 6"=1'-0"



4 HOISTWAY - MTL PANEL HEAD AND JAMB
DD-A-VTEL-003
SCALE: 6"=1'-0"



2 ELEVATOR DETAIL - THRESHOLD
DD-A-VTEL-003
SCALE: 1 1/2"=1'-0"



1 ELEVATOR DETAIL
DD-A-VTEL-003
SCALE: 1 1/2"=1'-0"

DESIGNED		DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

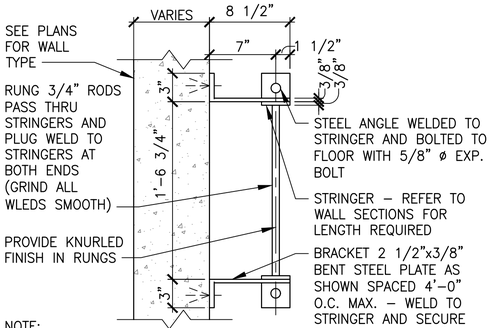
APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

ELEVATOR DETAILS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-VTEL-003	99 OF 183

NOTE:
PROVIDE LADDER EXTENSION BRACKETS AS REQUIRED

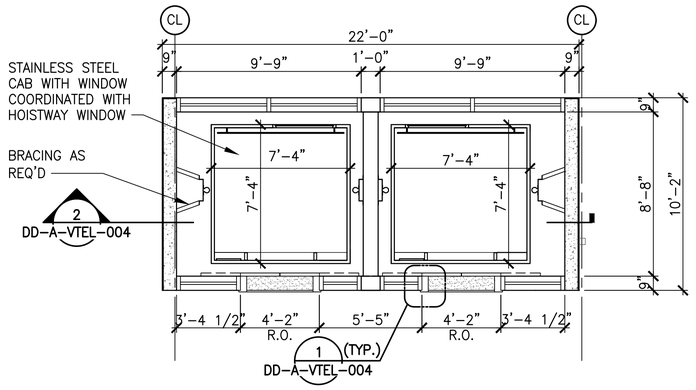


NOTE:
STEEL LADDER SHALL BE GALVANIZED STEEL. SUBMIT SHOP DRAWINGS FOR ALL LOCATIONS.

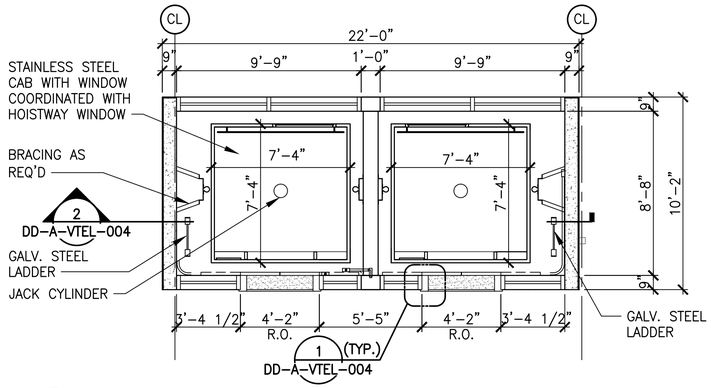
9 PIT LADDER
DD-A-VTEL-004 SCALE: 1 1/2"=1'-0"

NOTE:
PROVIDE LADDER EXTENSION BRACKETS AS REQUIRED

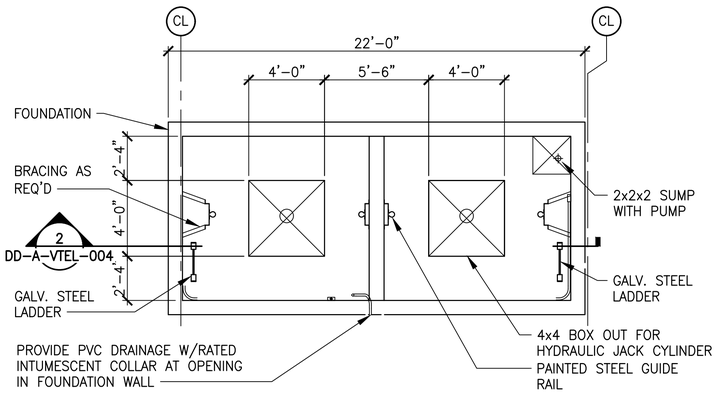
8 PIT LADDER
DD-A-VTEL-004 SCALE: 1 1/2"=1'-0"



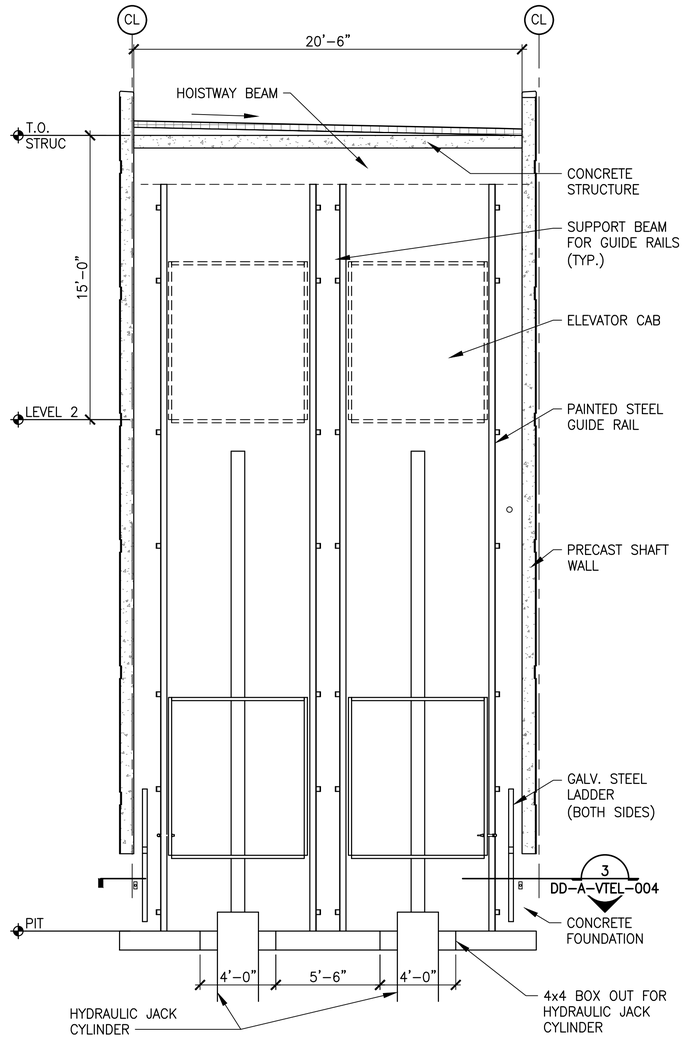
5 ELEVATOR LEVEL 2
DD-A-VTEL-004 SCALE: 1/4"=1'-0"



4 ELEVATOR LEVEL 1
DD-A-VTEL-004 SCALE: 1/4"=1'-0"



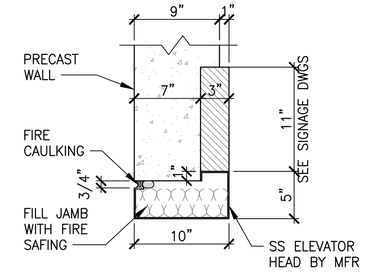
3 PLAN - ELEVATOR PIT
DD-A-VTEL-004 SCALE: 1/4"=1'-0"



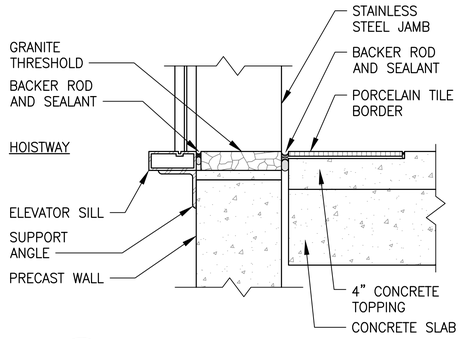
2 ELEVATOR SECTION
DD-A-VTEL-004 SCALE: 1/4"=1'-0"

GENERAL NOTES:

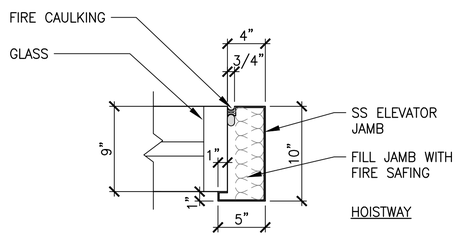
1. ELEVATOR CAB CONTROLS, SIGNAGE, ETC., SHALL BE DESIGNED AND CONSTRUCTED TO COMPLY WITH APPLICABLE ACCESSIBILITY REQUIREMENTS.
2. ELEVATOR HOISTWAY & CAB GLAZING SHALL BE CLEAR LAMINATED FULLY TEMPERED FLOAT GLASS WITH SAFETY GLAZING LABELING.
3. HATCHED AREAS REPRESENT ENCLOSED LOCATIONS FOR VERTICAL CONDUIT RISERS WITHIN HOISTWAY.



6 ELEVATOR HEAD DETAIL
DD-A-VTEL-004 SCALE: 1 1/2"=1'-0"



7 ELEVATOR SILL - PAVILION
DD-A-VTEL-004 SCALE: 1 1/2"=1'-0"



1 ELEVATOR JAMB DETAIL
DD-A-VTEL-004 SCALE: 1 1/2"=1'-0"

DESIGNED _____ DATE
DRAWN P FANFULIK 08/2016 DATE
CHECKED I KARADIMOV 10/2016 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

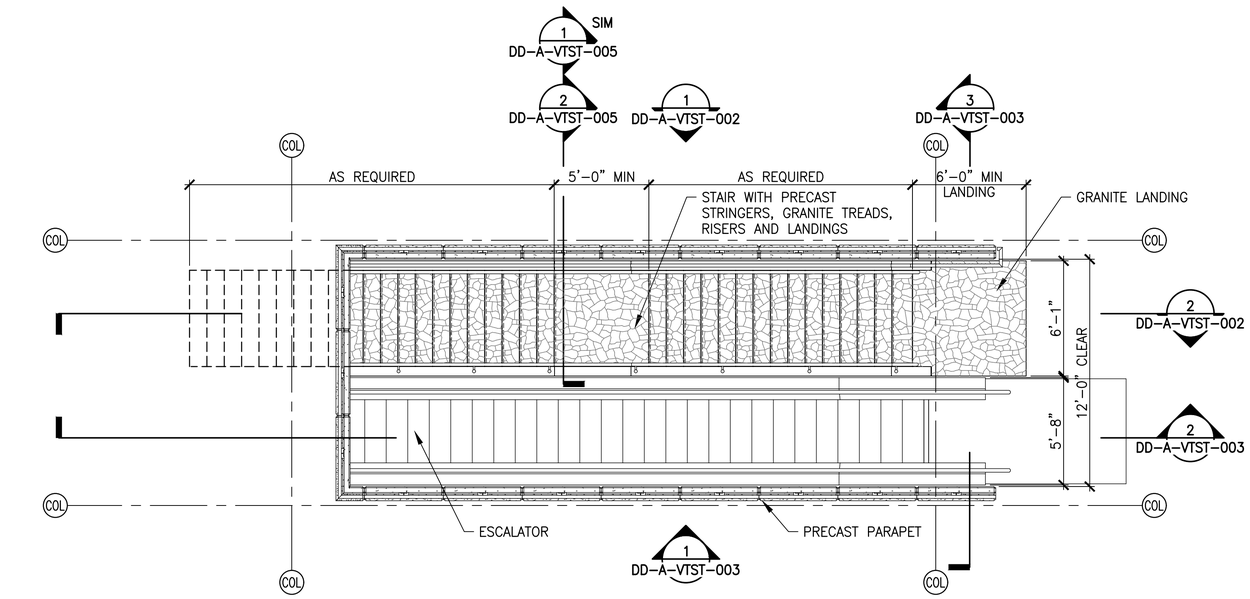
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED PERRILYN FANFULIK, SENIOR DESIGN ARCHITECT 09/08/17 DATE

APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE 09/13/17 DATE

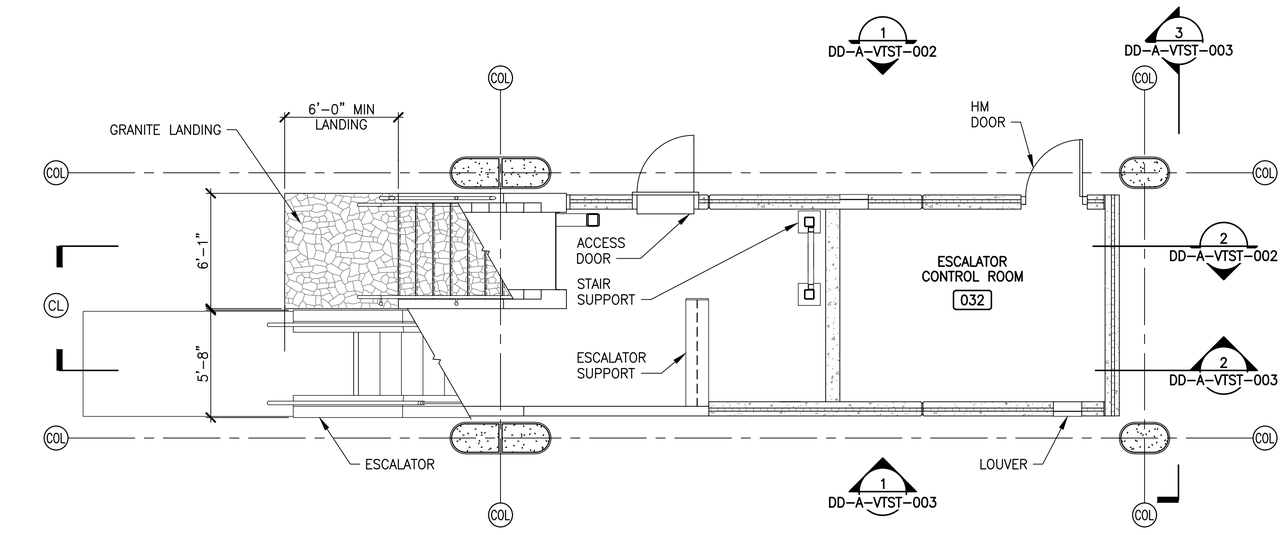
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
ABOVE GROUND STATIONS
ENTRANCE PAVILION
ELEVATOR PLANS, SECTIONS AND DETAILS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-VTEL-004	100 OF 183



1 DD-A-VTST-001 TYPICAL MEZZANINE STAIR/ESCALATOR - PLAN

SCALE: 1/4" = 1'-0"



2 DD-A-VTST-001 TYPICAL PLATFORM STAIR/ESCALATOR - PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. MINIMUM WIDTH OF STAND ALONE STAIR SHALL BE 8'-4". MINIMUM WIDTH OF STAIR ADJACENT TO ESCALATOR SHALL BE 5'-8". WIDTH SHALL BE AS REQUIRED PER NFPA 130 EGRESS REQUIREMENTS.
2. DEPTH OF TREADS AND HEIGHT OF RISERS SHALL BE EQUAL THROUGHOUT RUN OF STAIR. STAIR TREADS AND RISERS PER RUN OF STAIRS SHALL NOT VARY, EXCEPT AS PERMITTED BY CODE.
3. STAINLESS STEEL (SS) WOVEN MESH SHALL ONLY BE PLACED ON OPEN SIDE OF STAIR.
4. STAINLESS STEEL (SS) HANDRAILS SHALL BE SCHEDULE 40 AND POSTS SHALL BE SCHEDULE 80.
5. PROVIDE STAINLESS STEEL CLADDING AROUND ESCALATOR AND BETWEEN STAIR STRINGERS WHERE EXPOSED TO PUBLIC VIEW.
6. PROVIDE DRAIN PAN FOR FULL LENGTH OF UNDERSIDE OF ESCALATOR TRUSS.
7. GUARDRAIL POST EMBED LOCATIONS SHALL BE COORDINATED W/APPROVED LIGHTED HANDRAIL SHOP DRAWINGS PRIOR TO FABRICATION OF PRECAST STRINGERS.

DESIGNED	P FANFULIK	08/2016 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

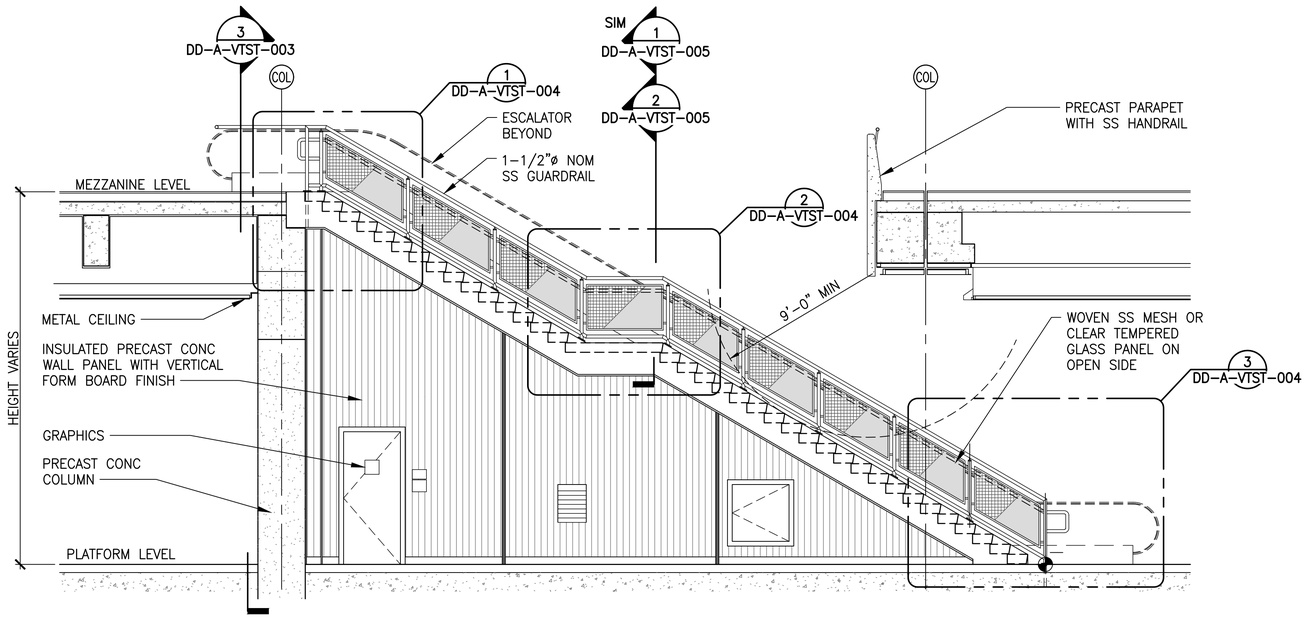
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

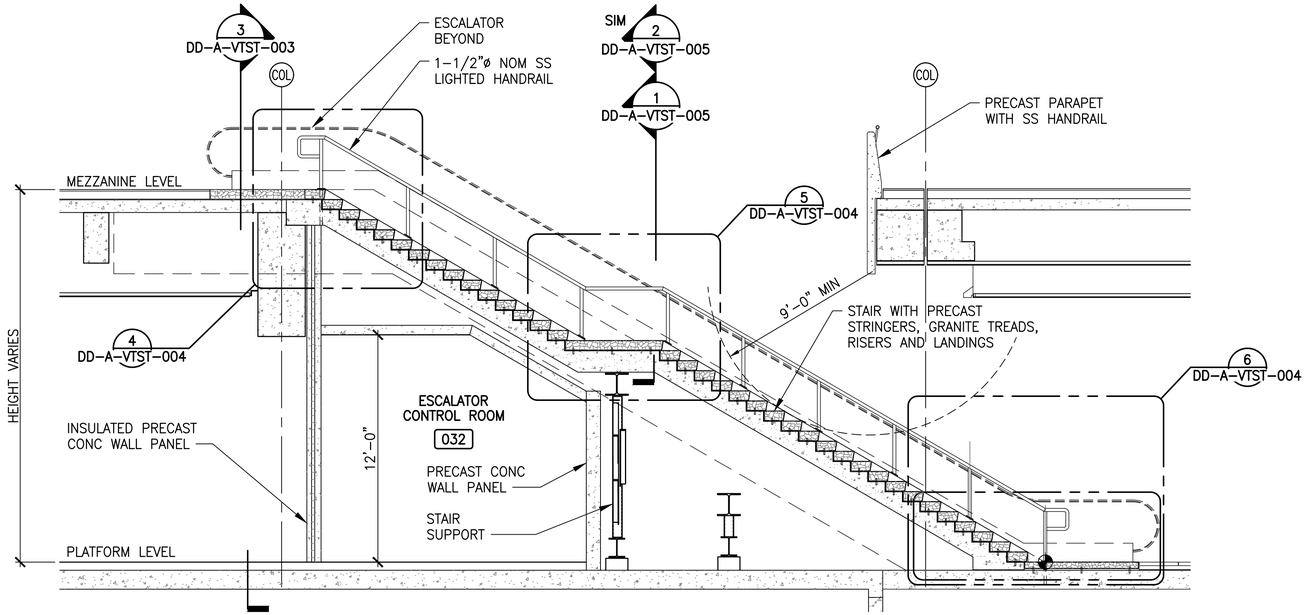
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
MEZZANINE AND PLATFORM
TYPICAL STAIR AND ESCALATOR PLANS

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	1/4" = 1'-0"	DD-A-VTST-001	101 OF 183



1 DD-A-VTST-002 TYPICAL STAIR - ELEVATION

SCALE: 1/4" = 1'-0"



2 DD-A-VTST-002 TYPICAL STAIR - SECTION

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. MINIMUM WIDTH OF STAND ALONE STAIR SHALL BE 8'-4". MINIMUM WIDTH FOR STAIR ADJACENT TO ESCALATOR SHALL BE 5'-8". WIDTH SHALL BE AS REQUIRED PER NFPA 130 EGRESS REQUIREMENTS.
2. DEPTH OF TREADS AND HEIGHT OF RISERS SHALL BE EQUAL THROUGHOUT RUN OF STAIR. STAIR TREADS AND RISERS PER RUN OF STAIRS SHALL NOT VARY, EXCEPT AS PERMITTED BY CODE.
3. STAINLESS STEEL (SS) WOVEN MESH SHALL ONLY BE PLACED ON OPEN SIDE OF STAIR.
4. HANDRAILS SHALL BE SCHEDULE 40 AND POSTS SHALL BE SCHEDULE 80.
5. PROVIDE STAINLESS STEEL CLADDING AROUND ESCALATOR AND BETWENN STAIR STRINGERS WHERE EXPOSED TO PUBLIC VIEW.
6. PROVIDE DRAIN PAN FOR FULL LENGTH OF UNDERSIDE OF ESCALATOR TRUSS.

DESIGNED	P FANFULIK	08/2016 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF DESIGN AND CONSTRUCTION

ENGA - ARCHITECTURE

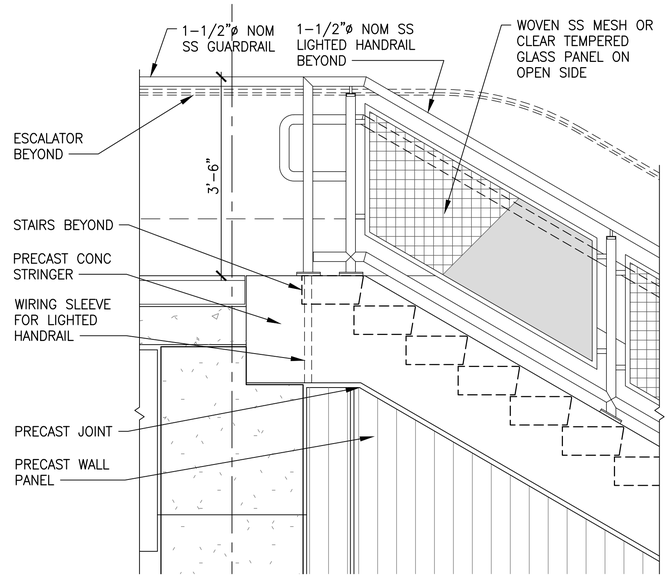
APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

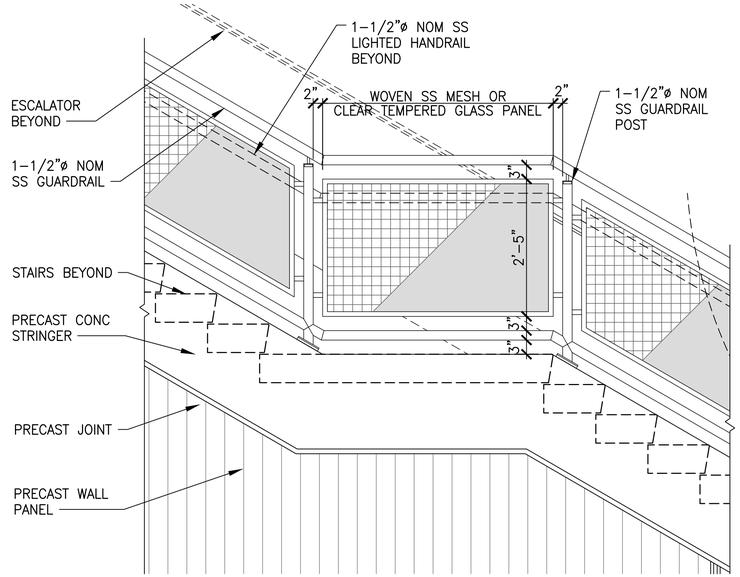
ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS

TYPICAL STAIR ELEVATION AND SECTION

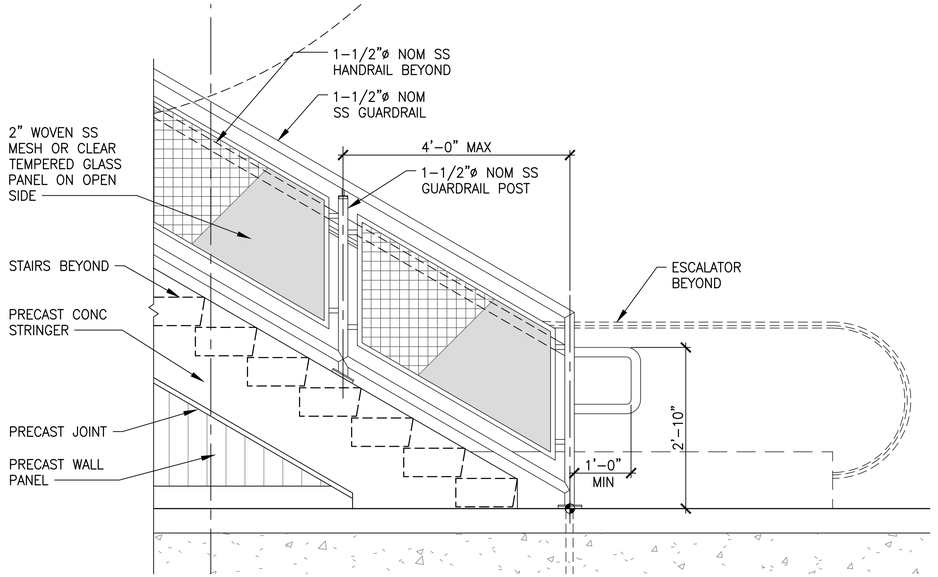
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	1/4" = 1'-0"	DD-A-VTST-002	102 OF 183



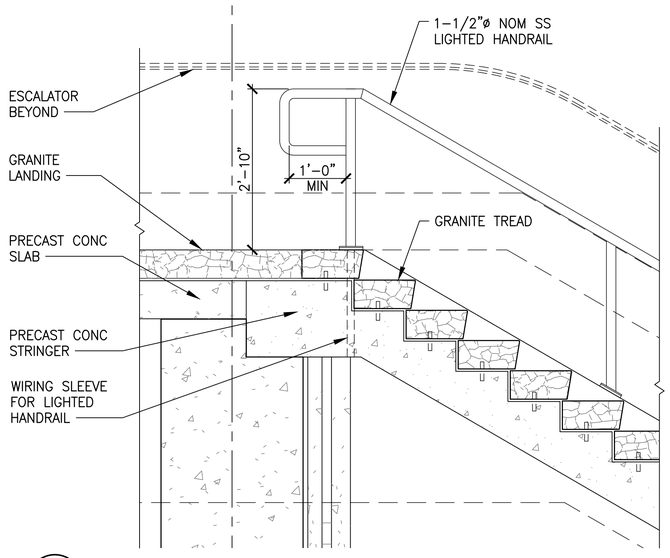
1 TYP. MESH GUARDRAIL PANEL @ UPPER LANDING
DD–A–VTST–004 SCALE: 3/4" = 1'–0"



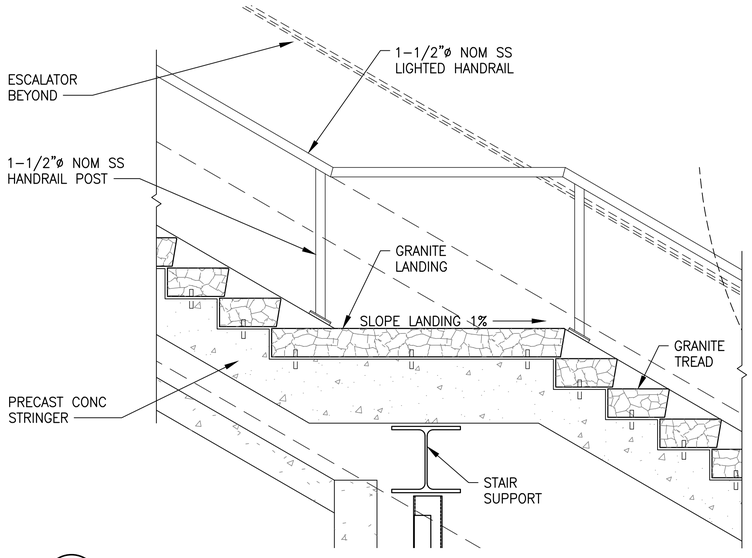
2 TYP. MESH GUARDRAIL PANEL @ INTERMEDIATE LANDING
DD–A–VTST–004 SCALE: 3/4" = 1'–0"



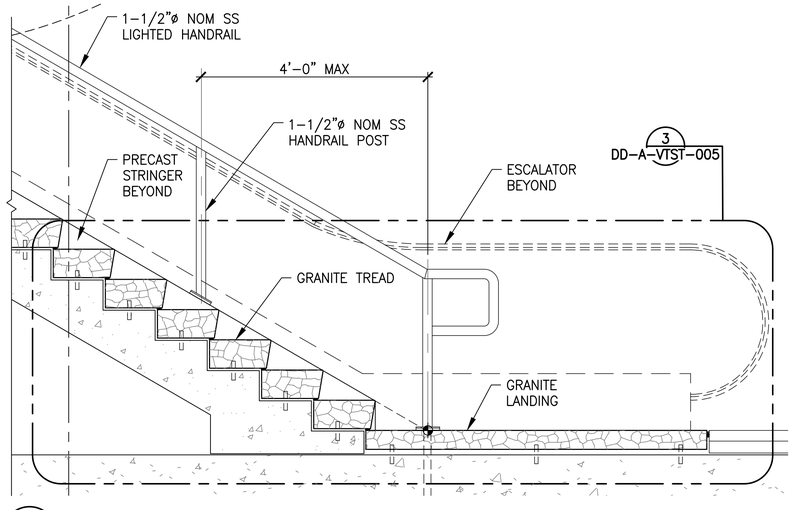
3 TYP. MESH GUARDRAIL PANEL @ LOWER LANDING
DD–A–VTST–004 SCALE: 3/4" = 1'–0"



4 TYPICAL UPPER LANDING
DD–A–VTST–004 SCALE: 3/4" = 1'–0"



5 TYPICAL INTERMEDIATE LANDING
DD–A–VTST–004 SCALE: 3/4" = 1'–0"



6 TYPICAL LOWER LANDING
DD–A–VTST–004 SCALE: 3/4" = 1'–0"

DESIGNED	P FANFULIK	08/2016 DATE
DRAWN	P FANFULIK	08/2016 DATE
CHECKED	I KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

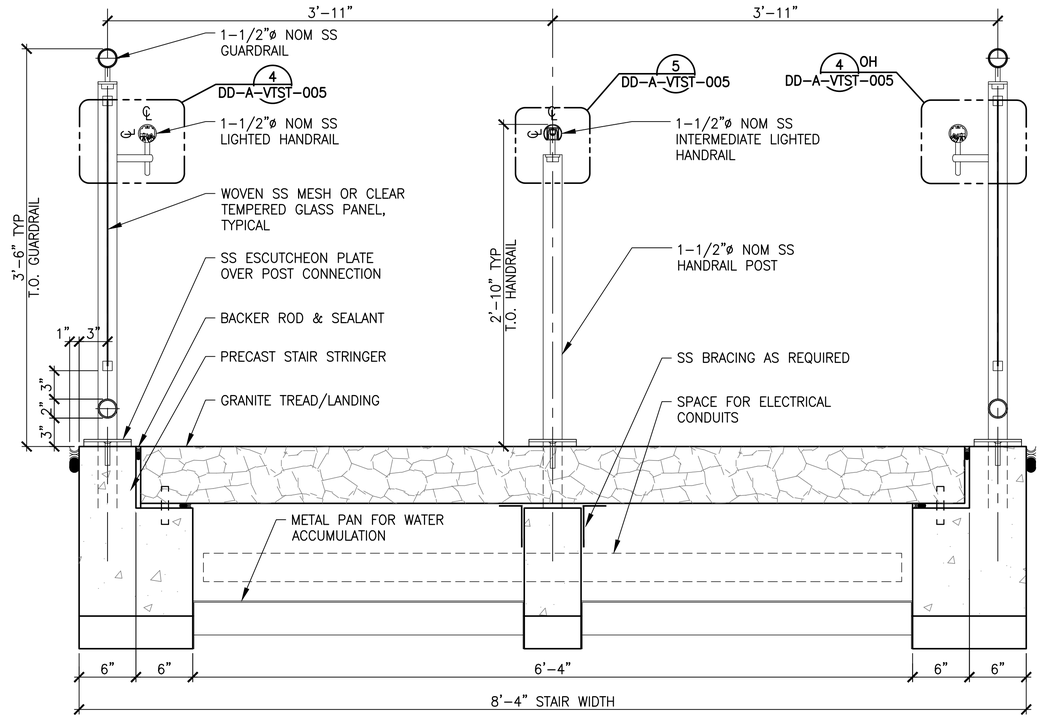
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED 09/08/17 DATE
PERRILYN FANFULIK
SENIOR DESIGN ARCHITECT

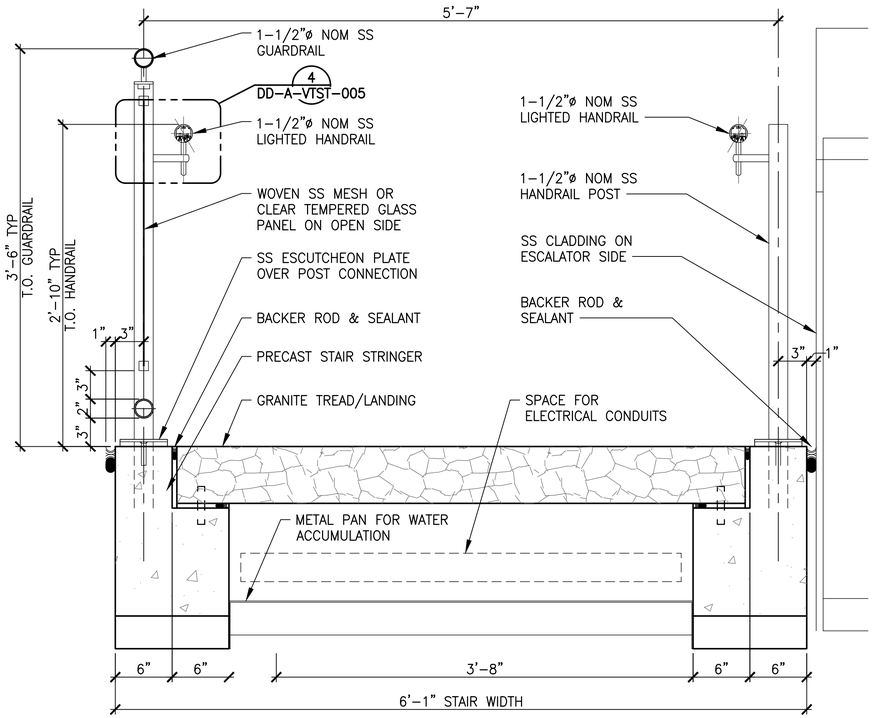
APPROVED 09/13/17 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
STAIR AND RAILING
SECTIONS AND DETAILS - SHEET 1 OF 2

M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	3/4" = 1'-0"	DD-A-VTST-004	103 OF 183



1 TYPICAL STAIR SECTION WITH INTERMEDIATE HANDRAIL
DD-A-VTST-005 SCALE: 1-1/2" = 1'-0"



2 TYPICAL STAIR SECTION
DD-A-VTST-005 SCALE: 1-1/2" = 1'-0"

GENERAL NOTES:

1. MINIMUM WIDTH OF STAND ALONE STAIR SHALL BE 8'-4". MINIMUM WIDTH OF STAIR ADJACENT TO ESCALATOR SHALL BE 5'-8". WIDTH SHALL BE AS REQUIRED PER NFPA 130 EGRESS REQUIREMENTS.
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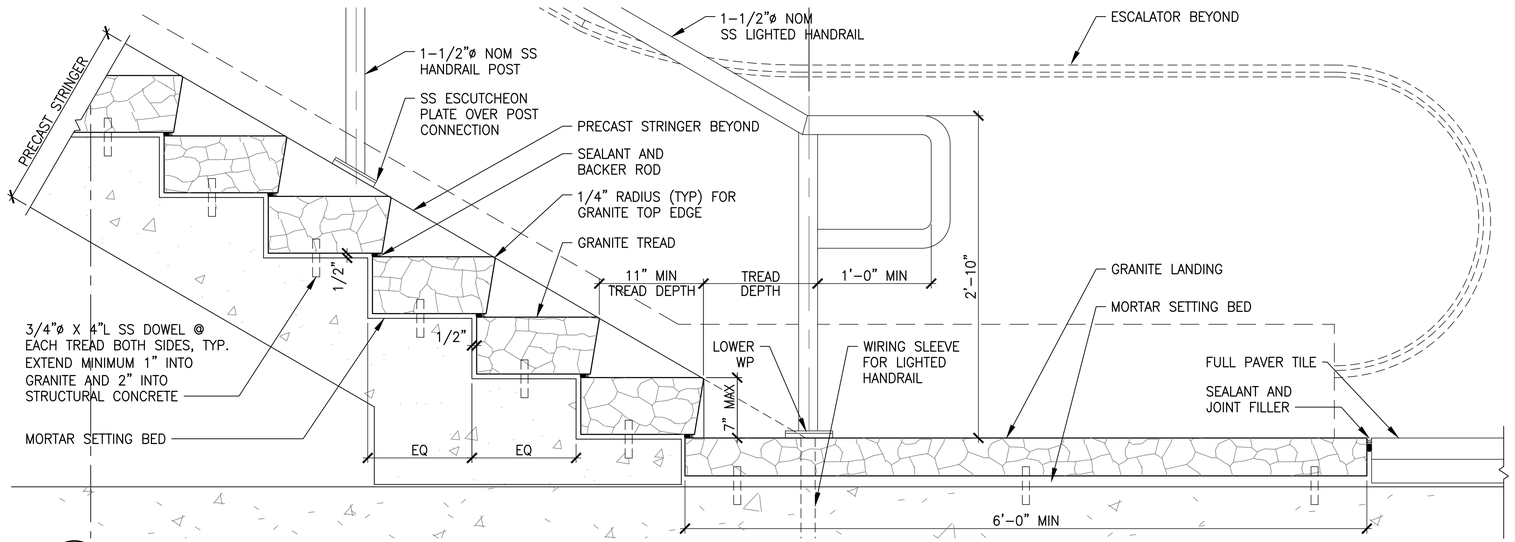
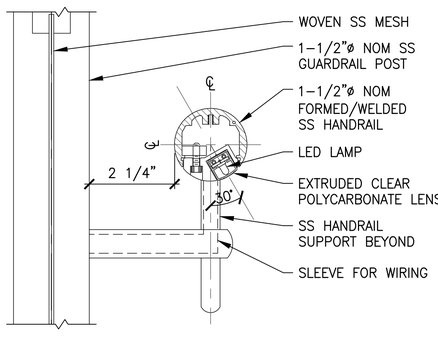
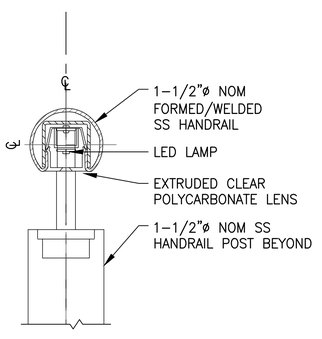
5. PROVIDE STAINLESS STEEL CLADDING AROUND ESCALATOR AND BETWEEN STAIR STRINGERS WHERE EXPOSED TO PUBLIC VIEW.
6. PROVIDE DRAIN PAN FOR FULL LENGTH OF UNDERSIDE OF ESCALATOR TRUSS.
7. GUARDRAIL POST EMBED LOCATIONS SHALL BE COORDINATED W/APPROVED LIGHTED HANDRAIL SHOP DRAWINGS PRIOR TO FABRICATION OF PRECAST STRINGERS.



3 DETAILS AT STAIR LANDING
DD-A-VTST-005 SCALE: 1-1/2" = 1'-0"



4 TYPICAL LIGHTED HANDRAIL
DD-A-VTST-005 SCALE: 6" = 1'-0"



5 INTERMEDIATE LIGHTED HANDRAIL
DD-A-VTST-005 SCALE: 6" = 1'-0"

DESIGNED	P.FANFULIK	08/2016 DATE
DRAWN	P.FANFULIK	08/2016 DATE
CHECKED	I.KARADIMOV	10/2016 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

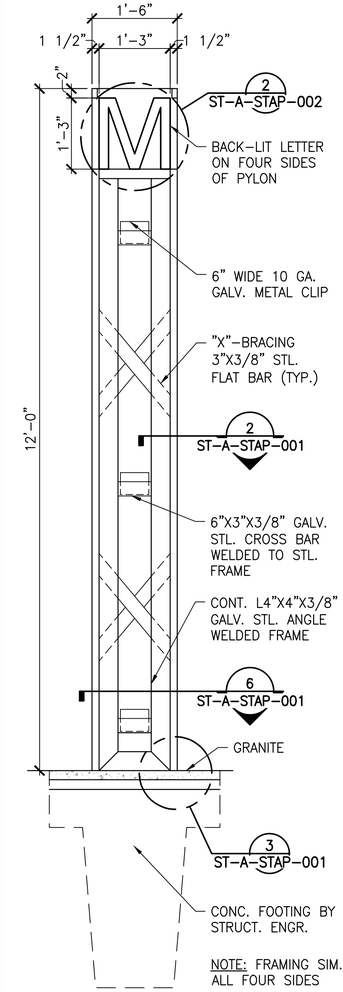
OFFICE OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED PERRILYN FANFULIK, SENIOR DESIGN ARCHITECT 09/08/17 DATE

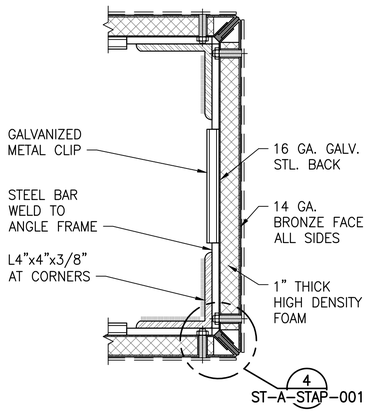
APPROVED IVAILO KARADIMOV, MANAGER OF ARCHITECTURE 09/13/17 DATE

ARCHITECTURAL DESIGN DIRECTIVE DRAWINGS
STAIR AND RAILING
SECTIONS AND DETAILS - SHEET 2 OF 2

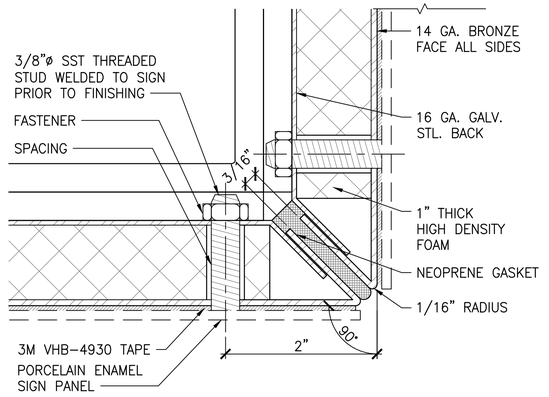
M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
M-	FQ-	AS NOTED	DD-A-VTST-005	104 OF 183



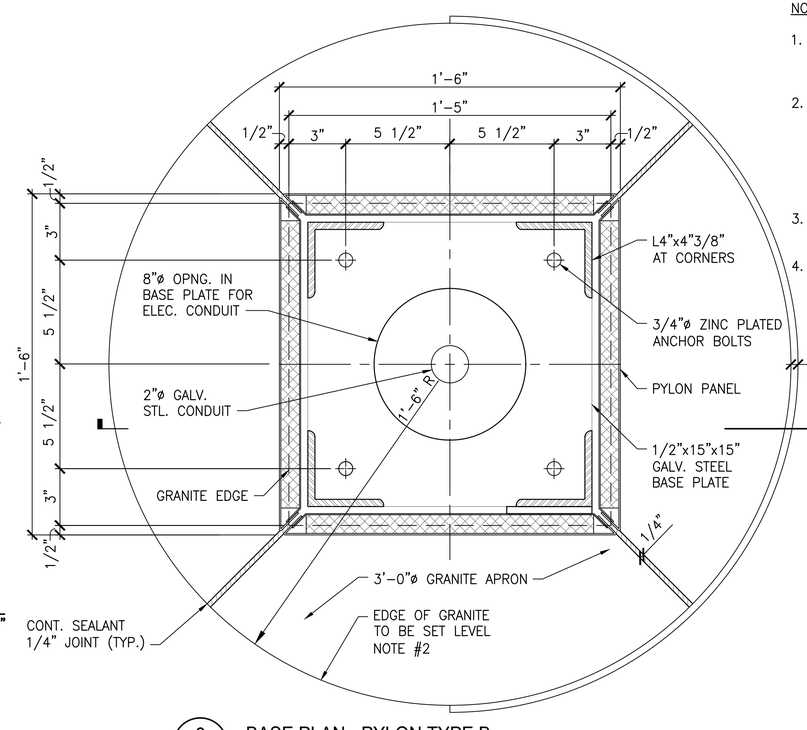
1 ELEV / SECT - PYLON TYPE B
ST-A-STAP-001 3/4"=1'-0"



2 PLAN DETAIL
ST-A-STAP-001 3"=1'-0"



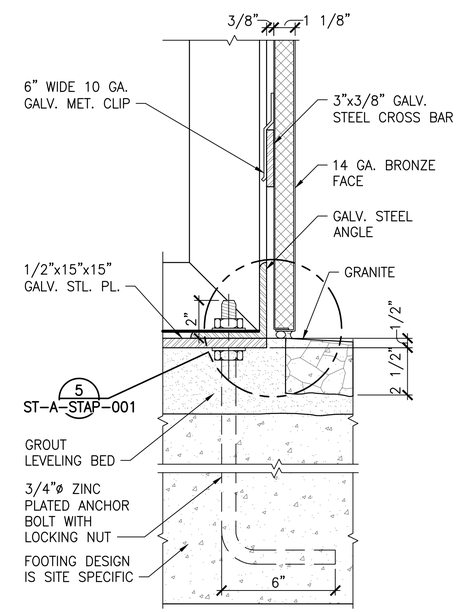
4 CORNER DETAIL
ST-A-STAP-001 1'-0"=1'-0"



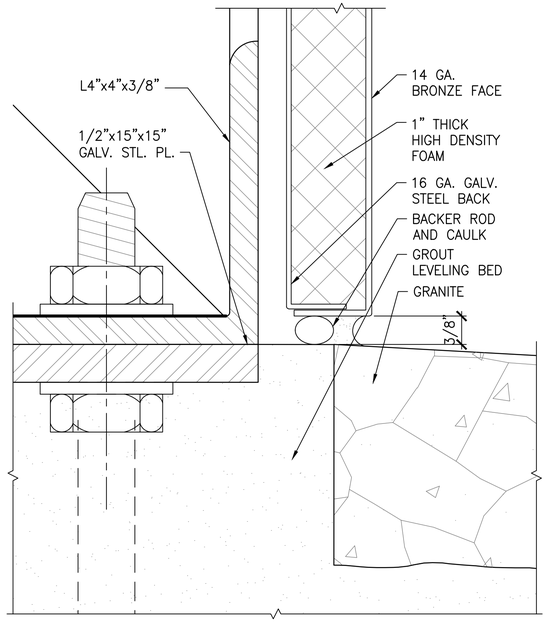
6 BASE PLAN - PYLON TYPE B
ST-A-STAP-001 3"=1'-0"

NOTES:

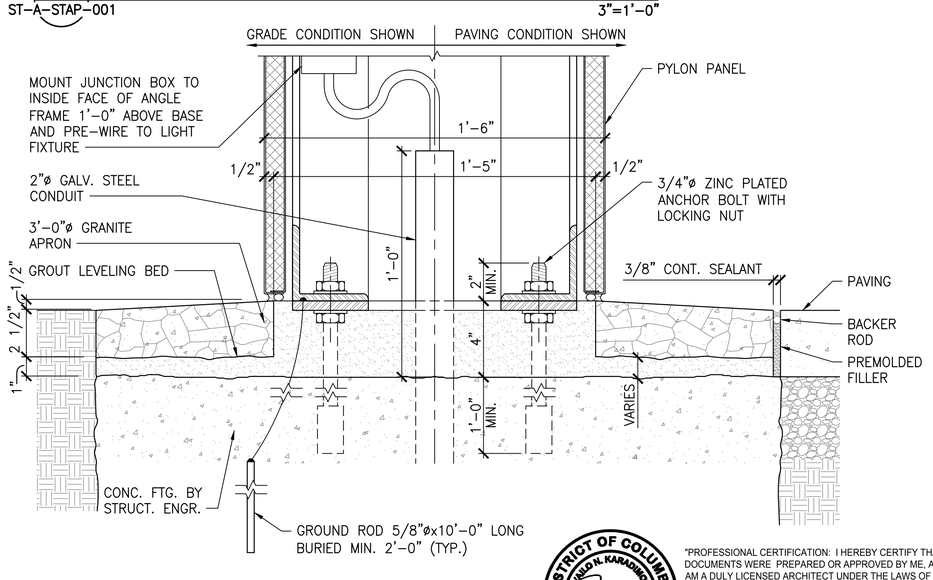
1. REFER TO WMATA METRORAIL SYSTEM SIGNAGE DESIGN MANUAL FOR PYLON LOCATION AND GRAPHICS.
2. WHERE CONCRETE PAVING SURROUNDS PYLON, WARP CONC. (MAX. 1/4" PER FT.) TO MEET FLUSH W/EDGE OF GRANITE. WHERE EXIST. CONC. PAVING SURROUNDS PYLON, SET GRANITE LEVEL FLUSH W/THE HIGH POINT ALONG EDGE OF SURROUNDING PAVING.
3. GROUND ENCLOSURE BY RUNNING A SEPARATE GROUND WIRE.
4. STRUCT. ENGR. TO DESIGN FOOTING.



3 BASE SECTION
ST-A-STAP-001 3"=1'-0"



5 BASE DETAIL
ST-A-STAP-001 1'-0"=1'-0"



7 FOOTING SECTION - PYLON TYPE B
ST-A-STAP-001 3"=1'-0"

DISTRICT OF COLUMBIA IVAILO N. KARADIMOV ARC 101356 LICENSED ARCHITECT

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE DISTRICT OF COLUMBIA."

LICENSE No. ARC 101356

EXPIRATION DATE: 2018-07-31

- DC REGISTER SECTION 3413

DESIGNED	P. FANFULIK	06/13/16 DATE
DRAWN	D. CHASE	6/13/16 DATE
CHECKED	T. KEAN	10/20/16 DATE

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

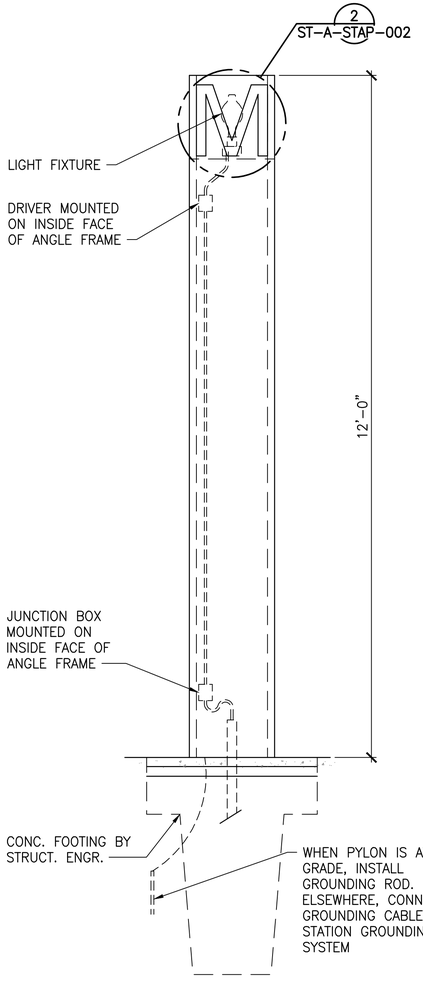
DEPARTMENT OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED Terrance M Kean 06/06/18 DATE
TERRANCE KEAN
ARCHITECT

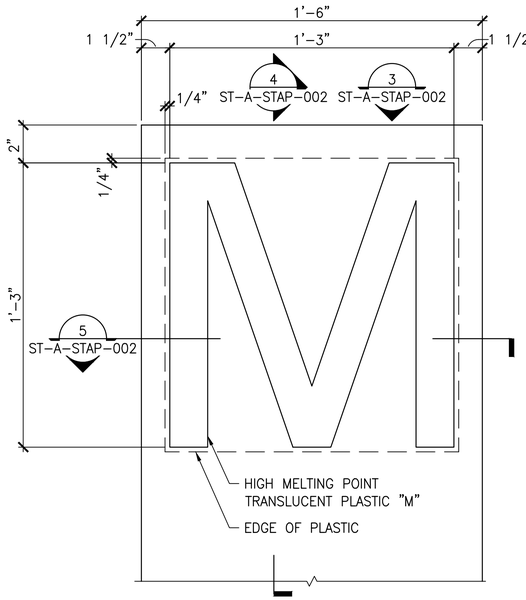
APPROVED 06/07/18 DATE
IVAILO KARADIMOV
MANAGER OF ARCHITECTURE

ARCHITECTURAL STANDARD DRAWINGS
PYLON TYPE B
ELEVATION, SECTION AND DETAILS

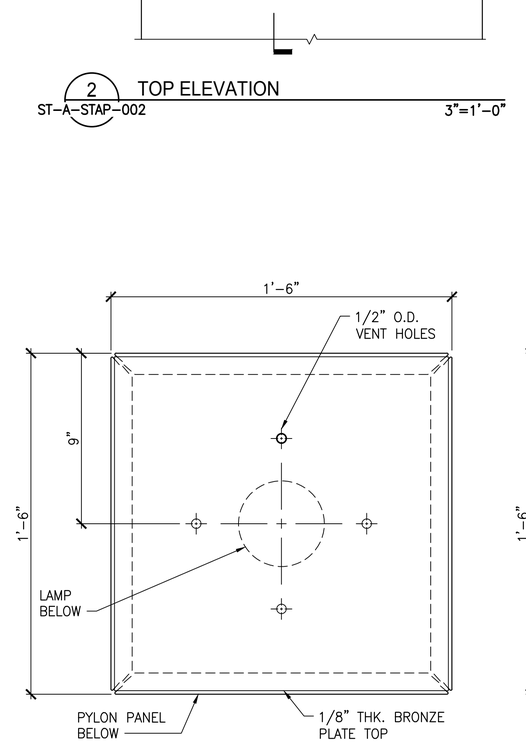
CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
FQ-	AS NOTED	ST-A-STAP-001	105 OF 183



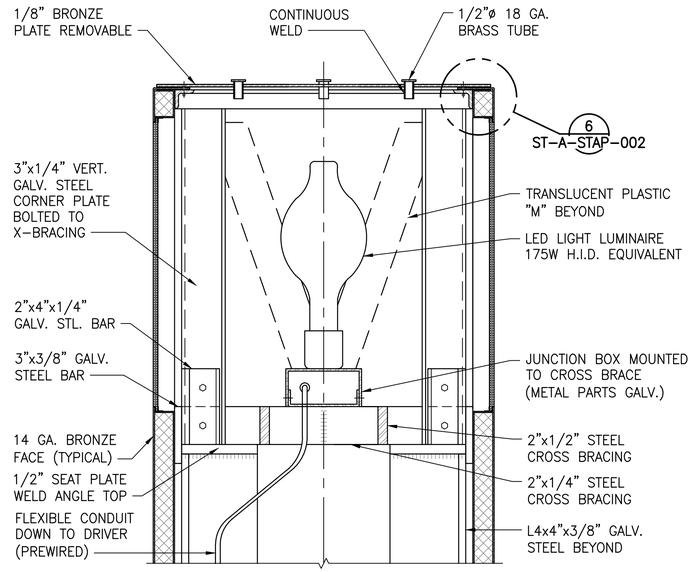
1 ELECT. DIAGRAM - PYLON TYPE "B"
ST-A-STAP-002 3/4"=1'-0"



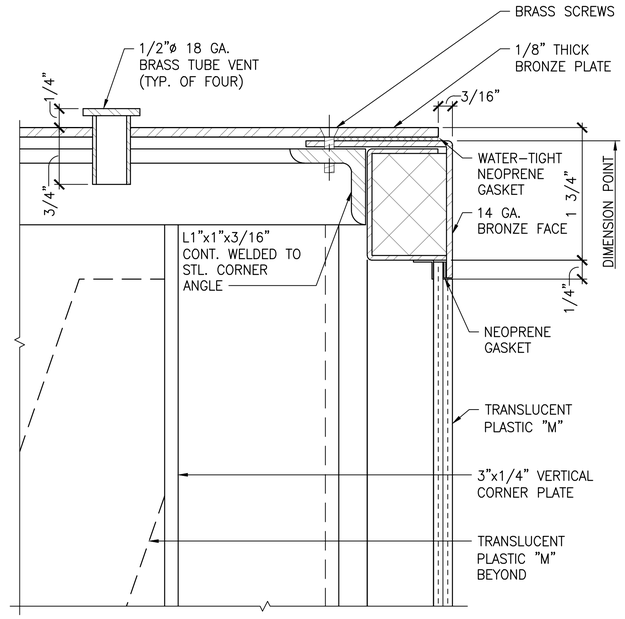
2 TOP ELEVATION
ST-A-STAP-002 3"=1'-0"



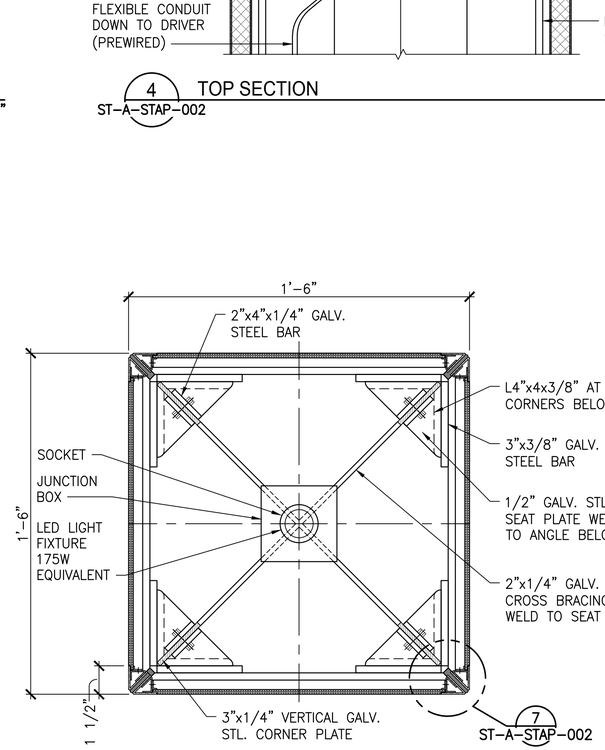
3 PLAN AT TOP
ST-A-STAP-002 3"=1'-0"



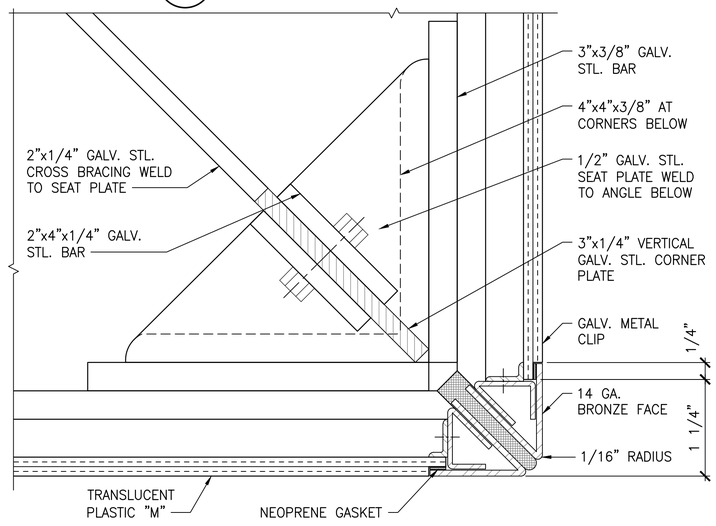
4 TOP SECTION
ST-A-STAP-002 3"=1'-0"



6 TOP DETAIL
ST-A-STAP-002 1'-0"=1'-0"



5 PLAN AT "M"
ST-A-STAP-002 3"=1'-0"



7 CORNER DETAIL
ST-A-STAP-002 1'-0"=1'-0"

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE DISTRICT OF COLUMBIA."

DISTRICT OF COLUMBIA · IVAILO N. KARADIMOV · ARC 101356 · LICENSED ARCHITECT

LICENSE No. ARC 101356

EXPIRATION DATE: 2018-07-31

- DC REGISTER SECTION 3413

DESIGNED	P. FANFULIK	06/13/16 DATE
DRAWN	D. CHASE	6/13/16 DATE
CHECKED	T. KEAN	10/20/16 DATE

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF DESIGN AND CONSTRUCTION
ENGA - ARCHITECTURE

APPROVED Terrance M Kean 06/06/18
TERRANCE KEAN DATE
ARCHITECT

APPROVED 06/07/18
IVAILO KARADIMOV DATE
MANAGER OF ARCHITECTURE

ARCHITECTURAL STANDARD DRAWINGS
PYLON TYPE B
LIGHT FIXTURE DETAILS

CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
FQ-	AS NOTED	ST-A-STAP-002	106 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

MECHANICAL SYMBOLS

- KEYNOTE
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- POINT WHERE NEW CONNECTS TO EXISTING
- POINT OF DEMOLITION
- REVISION NUMBER - SHOWN ON PLANS
- CONTINUATION SYMBOL
- Room 5 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- NEW WORK
- (E) - EXISTING TO REMAIN
- (D) - TO BE DEMOLISHED

ABBREVIATIONS

Ø	ROUND OR DIAMETER	LB/HR	POUNDS PER HOUR
ABV	ABOVE	LAT	LEAVING AIR TEMPERATURE
AC	AIR CONDITIONING	LP	LOW PRESSURE
AC	AIR CONDITIONING UNIT	LVL	LEVEL
ACCU	AIR COOLING CONDENSING UNIT	LVR	LOUVER
AD	AREA DRAIN	LWT	LEAVING WATER TEMPERATURE
ADD	ADDENDUM	M/A	MIXED AIR
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MBH	ONE THOUSAND BTU PER HOUR
AHU	AIR HANDLING UNIT	MCF	ONE THOUSAND CUBIC FEET
ALT	ALTERNATE	MD	MOTORIZED DAMPER
AS	AIR SEPARATOR	MECH	MECHANICAL
AP	ACCESS PANEL	MEZZ	MEZZANINE
ARCH	ARCHITECT/ARCHITECTURAL	MFR	MANUFACTURER
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BLW	BELOW	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNITS	MTR	MOTOR
BTUH	BRITISH THERMAL UNITS PER HOUR	MU/A	MAKE-UP/AIR
CAP	CAPACITY	NC	NOISE CRITERIA
CB	CATCH BASIN	N.C.	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CH	CHILLER	NG	NATURAL GAS
CHWP	CHILLED WATER PUMP	NO.	NUMBER
CLG	CEILING	N.O.	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	O/A	OUTSIDE AIR
CW	COLD WATER	PD	PRESSURE DROP
D	DEGREE	PLBG	PLUMBING
DB	DRY BULB	PRESS	PRESSURE
DC	DUCT MOUNTED COIL	PRV	PRESSURE REDUCING VALVE
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DN	DOWN	PSIG	POUNDS PER SQUARE INCH GAUGE
EA	EACH	PWR	POWER
EAT	ENTERING AIR TEMPERATURE	R	DUCT RISER
EDC	ELECTRIC DUCT COIL	R/A	RETURN AIR
EF	EXHAUST FAN	RCP	RADIANT CEILING PANEL
ELEC	ELECTRICAL	RD	ROOF DRAIN
EQUIP	EQUIPMENT	RE	RETURN/EXHAUST FAN
ET	EXPANSION TANK	REC	RECESSED
EWH	ELECTRIC WATER HEATER	RED	REDUCER
EWT	ENTERING WATER TEMPERATURE	RG	REFRIGERANT GAS
E/A	EXHAUST AIR	RH	RELATIVE HUMIDITY
EXIST	EXISTING	RL	REFRIGERANT LIQUID
F	DEGREES FAHRENHEIT	RL/A	RELIEF AIR
FCO	FLOOR CLEAN OUT	RM	ROOM
FCU	FAN COIL UNIT	RPM	REVOLUTIONS PER MINUTE
FD	FLOOR DRAIN, FIRE DAMPER	RTU	ROOFTOP UNIT
FDC	FIRE DEPARTMENT CONNECTION	RW	RAIN WATER
FL	FLOOR	SF	SQUARE FOOT
FP	FIRE PUMP	S/A	SUPPLY AIR
FPM	FEET PER MINUTE	SAN	SANITARY
FS	FLOOR SINK	SF	SQUARE FOOT
FT	FOOT/FEET	SD	STORM DRAIN OR SMOKE DAMPER
FTR	FIN TUBE RADIATION	SM	SURFACE MOUNT
GAL	GALLON	SP	STATIC PRESSURE
GC	GENERAL CONTRACTOR	ST	STORAGE TANK
GF	GAS-FIRED	STM	STEAM
GPM	GALLONS PER MINUTE	T	THERMOSTAT
GRV	GRAVITY ROOF VENTILATOR	TD	TEMPERATURE DROP
HB	HOSE BIB	TEMP	TEMPERATURE
HP	HORSE POWER	TYP	TYPICAL
HRU	HEAT RECOVERY UNIT	UG	UNDERGROUND
HTG	HEATING	UH	UNIT HEATER
HTR	HEATER	V	VENT
HW	HOT WATER	VAV	VARIABLE AIR VOLUME
HWP	HEATING WATER PUMP	VENT	VENTILATION
HYD	HYDRANT	VFD	VARIABLE FREQUENCY DRIVE
ID	INDIRECT	VTR	VENT THROUGH ROOF
IN	INCH	W/	WITH
INV	INVERT	WB	WET BULB
LB	POUND	WCO	WALL CLEAN OUT
		W.G.	WATER GAUGE

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

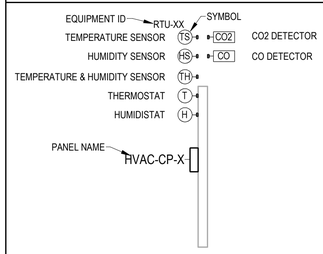
MECHANICAL SYMBOLS

- 18"x12" — SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
- 18"/12" — OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
- 18"Ø — ROUND DUCT SIZE TAG (DIAMETER)
- 18"x18" S/A — SUPPLY AIR
- 18"x18" O/A — OUTSIDE AIR
- 18"x18" T/A — TRANSFER AIR
- 18"x18" E/A — EXHAUST AIR
- 18"x18" L/A — RELIEF AIR
- 18"x18" SE/A — SMOKE EXHAUST AIR
- 6"Ø FLUE — EXHAUST GAS FLUE
- DROP — RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — ROUND SUPPLY/OUTSIDE AIR DUCT RISE
- DROP — RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
- DROP — ROUND RETURN/TRANSFER AIR DUCT RISE
- DROP — RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
- DROP — ROUND EXHAUST/RELIEF AIR DUCT RISE

GRILLES, REGISTERS & DIFFUSERS TAG

	TYPE (SEE SCHEDULE)
1-WAY - SUPPLY DIFFUSER	SD3 (300)
2-WAY - SUPPLY DIFFUSER	SD3 (300)
4-WAY - SUPPLY DIFFUSER	SD3 (300)
RETURN GRILLE	RG11 (300)
EXHAUST GRILLE	EG11 (300)

DATA DEVICES TAGS



MECHANICAL PIPING SYMBOLS

PIPING LEGEND	SYSTEM NAME	ABBREVIATION
	CONDENSATE DRAINAGE	CD
	CONDENSER WATER RETURN	CWR
	NATURAL GAS	G
	REFRIGERANT-LIQUID	RL
	REFRIGERANT-GAS	RG

PIPE ACCESSORY TAGS

- BALL VALVE
- BALANCING VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- (ALTERNATE CHECK VALVE SYMBOL)
- GLOBE VALVE
- LOCK SHIELD VALVE
- PRESS REDUCING
- QUICK OPENING
- STRAINER
- EMERG. GAS SHUTOFF
- PLUG VALVE
- GAS SHUTOFF COCK
- PRESS REGULATOR

DAMPER TAGS

- SD — SMOKE DAMPER
- FD — FIRE DAMPER
- FSD — COMB. FIRE/SMOKE DAMPER
- VD — MANUAL VOLUME DAMPER
- MD — MOTORIZED DAMPER
- BDD — BACKDRAFT DAMPER

MECHANICAL NOTES

A CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.

B REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.

C CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.

D ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.

E COORDINATE THE EXACT LOCATION OF ALL DUCTWORK, HANGERS SUPPORTS, REGISTERS, DIRECTION OF AIRFLOW, ETC. WITH NEW LIGHTING.

F ALL SUPPLY AND RETURN REGISTERS SHALL BE SIDE DUCT MOUNTED AND HAVE A BALANCING DAMPER TO ACHIEVE TESTING AND BALANCING. ALL SUPPLY REGISTERS SHALL BE TWO-WAY THROW/ ADJUSTABLE BLADES.

G PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.

H THE CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

I REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

J THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN EXISTING SPACE AND WITHIN CLOSE PROXIMITY OF EXISTING SPACE.

K WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

L COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

M THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

N FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

O ALL ROOF MOUNTED EQUIPMENT SHALL BE COORDINATED WITH ARCHITECTURAL PLANS AND MAINTAIN PROPER PROTECTIONS AS REQUIRED BY CODE.

P LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

Q PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

R PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

S MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

T ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

U PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

V FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

W INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

X LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.

Y INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.

Y.1 THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

Y.2 PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT,PIPING, VALVES, HANGERS AND SUPPORTS, CONTROLS, AND DIFFUSERS.

Y.3 CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

Y.4 PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

APPLICABLE CODES

INTERNATIONAL BUILDING CODE, 2018 WITH MARYLAND AMMENDMENTS
INTERNATIONAL EXISTING BUILDING CODE, 2018 WITH MARYLAND AMMENDMENTS
INTERNATIONAL PLUMBING CODE, 2021 WITH WSSC AMMENDMENTS
INTERNATIONAL FUEL GAS CODE, 2021 WITH WSSC AMMENDMENTS
INTERNATIONAL MECHANICAL CODE, 2018 WITH LOCAL AMMENDMENTS
NFPA 1-2015, FIRE CODE
MONTGOMERY COUNTY MARYLAND CODE CHAPTER 8 (MECHANICAL)
MONTGOMERY COUNTY MARYLAND CODE CHAPTER 17 (ELECTRICAL)
NFPA 13-2013. STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 70-2017. NATIONAL ELECTRIC CODE
NFPA 72-2013. NATIONAL FIRE ALARM AND SIGNALING CODE
NFPA 90A-2018. STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
NFPA 101-2015. LIFE SAFETY CODE
NFPA 110-2016. EDITION, STANDARD FOR EMERGENCY AND SANDBY POWER SYSTEMS
NFPA 241-2019. STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS
INTERNATIONAL ENERGY CONSERVATION CODE, 2018 (IECC)

MECHANICAL SHEET INDEX

B09-M-00 1 TITLE SHEET
B09-M-10 0.1 STREET LEVEL PLAN - WEST END
B09-M-10 0.2 STREET LEVEL PLAN - EAST END
B09-M-10 1 MEZZANINE LEVEL PLAN
B09-M-10 2.1 PASSAGEWAY LEVEL MECHANICAL PLAN - WEST END
B09-M-10 2.2 PASSAGEWAY LEVEL PLAN - EAST END
B09-M-10 3.3 STREET LEVEL PLAN - EAST END
B09-M-30 1 SECTION VIEWS
B09-M-50 1 INSTALLATION DETAILS
B09-M-50 2 INSTALLATION DETAILS
B09-M-60 1 SCHEDULES

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
TITLE SHEET

SCALE	DRAWING NO.	SHEET NO.
NO SCALE	B09-M-001	107 OF 183

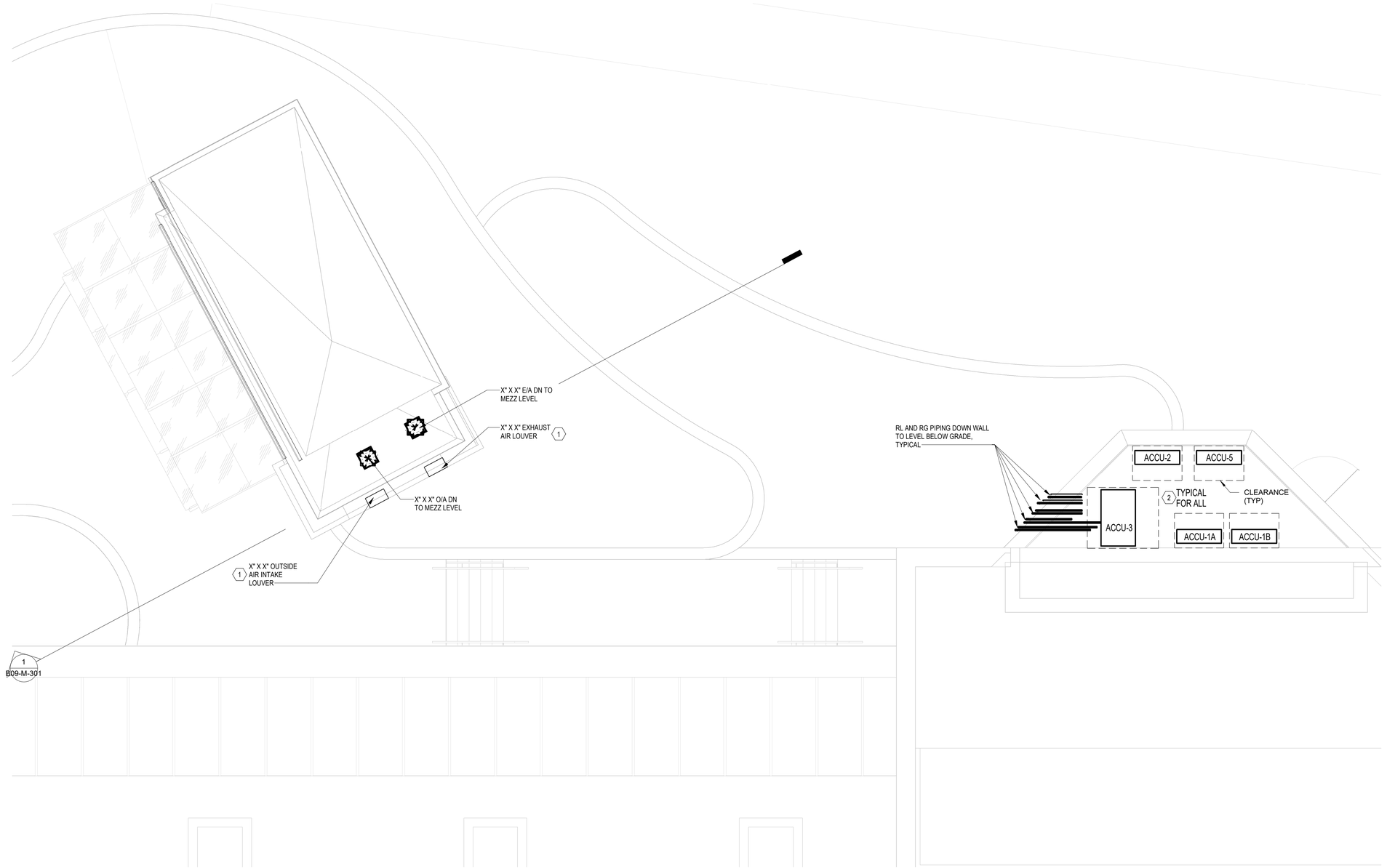
Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

SHEET NOTES:

1) SEE M.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES

KEYNOTES:

1. FURNISH AND INSTALL BLANK OFF PANEL FOR EACH LOUVER FOR THE INACTIVE PORTIONS NOT BEING UTILIZED BY THE FANS LOCATED WITHIN THE SHAFT.
2. COORDINATE THE FINAL LOCATION OF THE CONDENSING UNIT SO THAT ALL THE REQUIRED CLEARANCES REQUIRED BY CODE AND SUGGESTED BY THE MANUFACTURER ARE PROVIDED.



1 B09-M-100.1 STREET LEVEL PLAN - WEST END
1/4" = 1'-0"

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

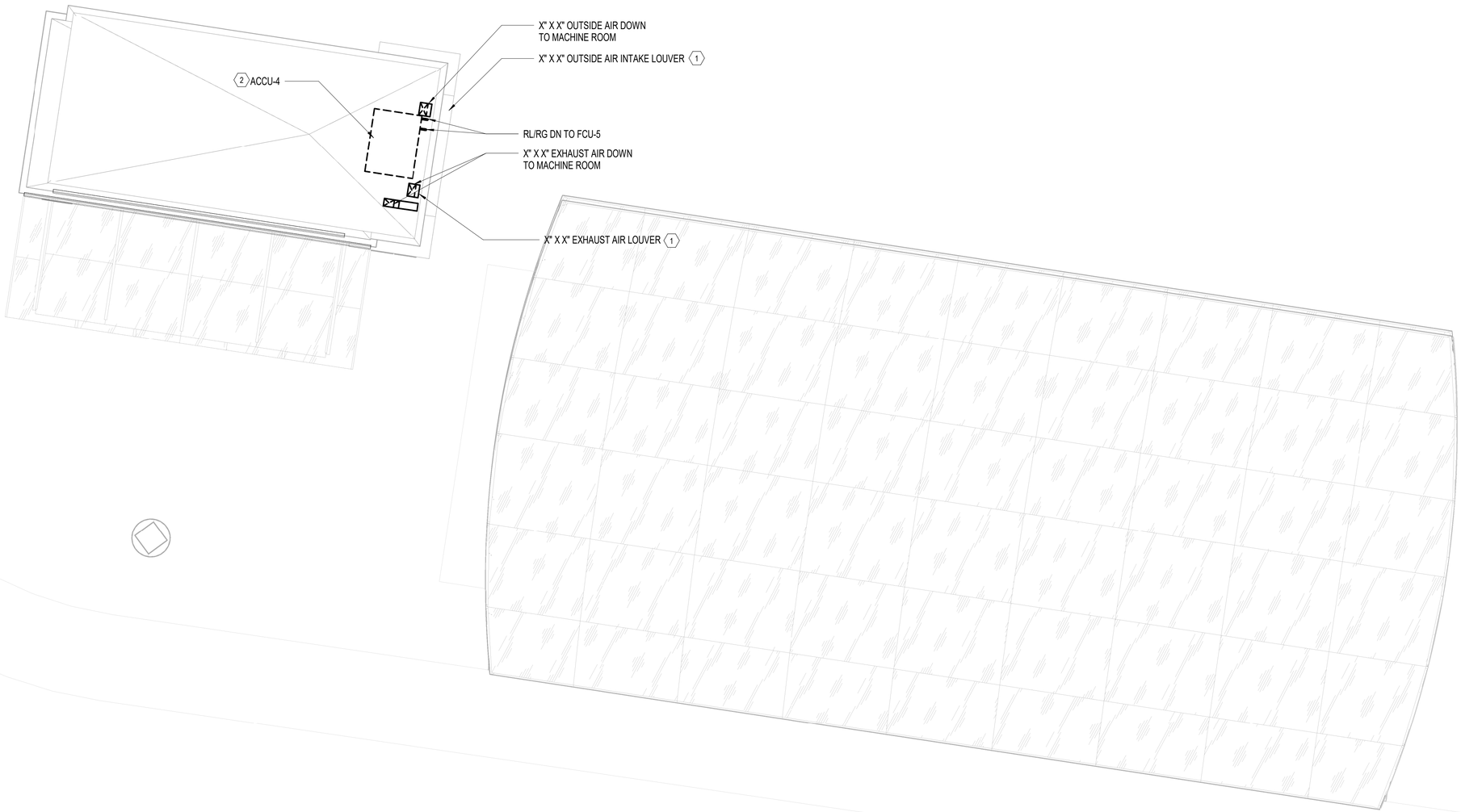
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
STREET LEVEL PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-M-100.1	108 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



1 B09-M-100.2 STREET LEVEL PLAN - EAST END
1/4" = 1'-0"

SHEET NOTES:

1) SEE M.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES

KEYNOTES:

1. FURNISH AND INSTALL BLANK OFF PANEL FOR EACH LOUVER FOR THE INACTIVE PORTIONS NOT BEING UTILIZED BY THE FANS LOCATED WITHIN THE SHAFT.
2. COORDINATE THE FINAL LOCATION OF THE CONDENSING UNIT SO THAT ALL THE REQUIRED CLEARANCES REQUIRED BY CODE AND SUGGESTED BY THE MANUFACTURER ARE PROVIDED. COORDINATE SUPPORTS WITH THE VENT SHAFT WALL CONSTRUCTION AND LOUVER SUPPORTS SO EQUIPMENT IS SERVICEABLE AND ACCESSIBLE THROUGH THE LOUVERS.

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
STREET LEVEL PLAN - EAST END

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-M-100.2	109 OF 183

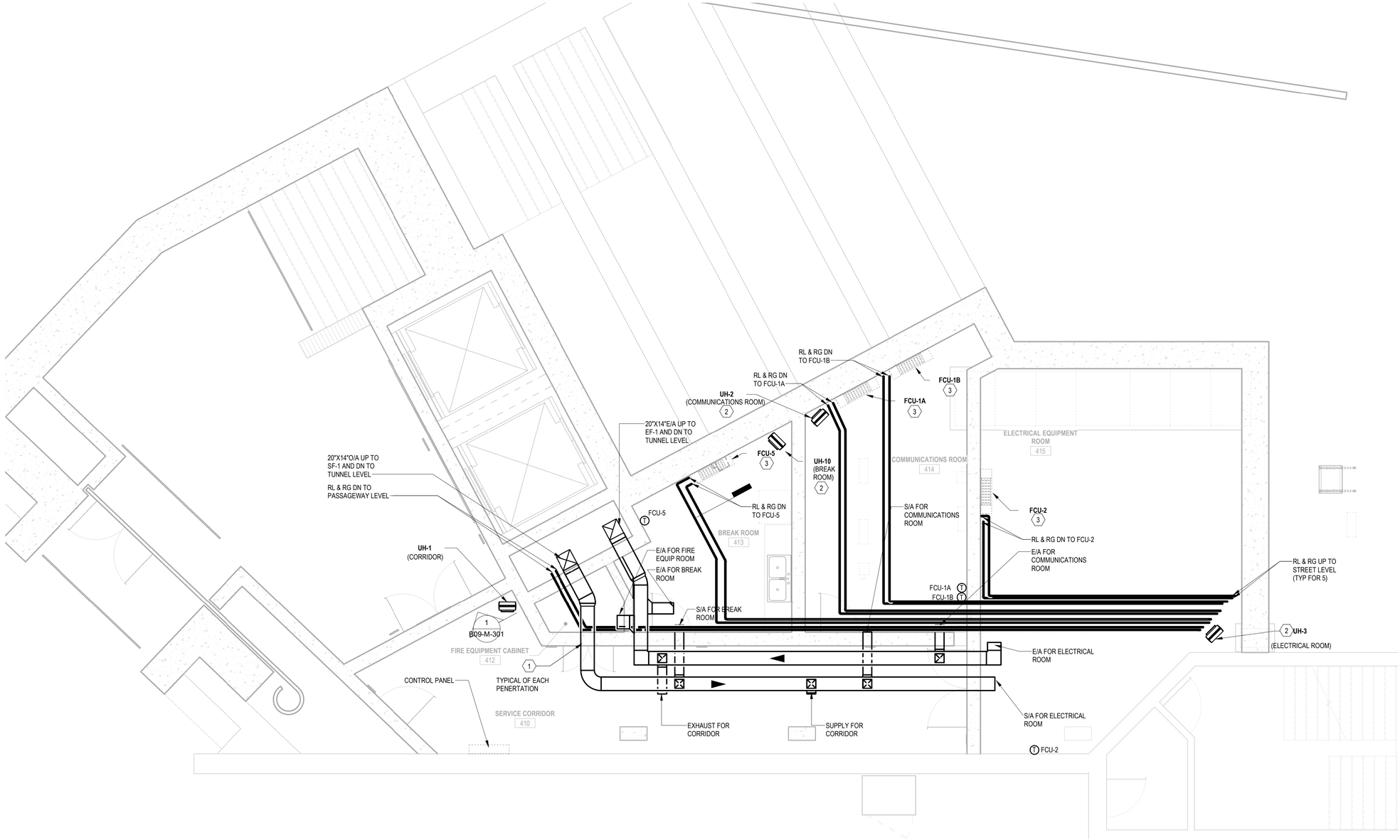
Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

SHEET NOTES:

1) SEE M.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES

KEYNOTES:

1. FURNISH AND INSTALL FIRE DAMPER AT WALL PENETRATION. PROVIDE ACCESS DOOR FOR INSPECTION. REFER TO ARCHITECTURAL PLANS FOR FIRE RATING.
2. FURNISH AND INSTALL A GRILLE WITH OPPOSED BLADE DAMPER AT EACH SUPPLY AND EXHAUST POINT, AND PROVIDE OPPOSED BLADE VOLUME DAMPER FOR BALANCING PURPOSES.
3. ROUTE CONDENSATE PIPING DOWN TO FLOOR BELOW. CONDENSATE SHALL TERMINATE AT THE MOP RECEPTOR LOCATED ON THE PEDESTRIAN PASSAGE LEVEL



1 B09-M-101 MEZZANINE LEVEL PLAN - WEST END
1/4" = 1'-0"

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

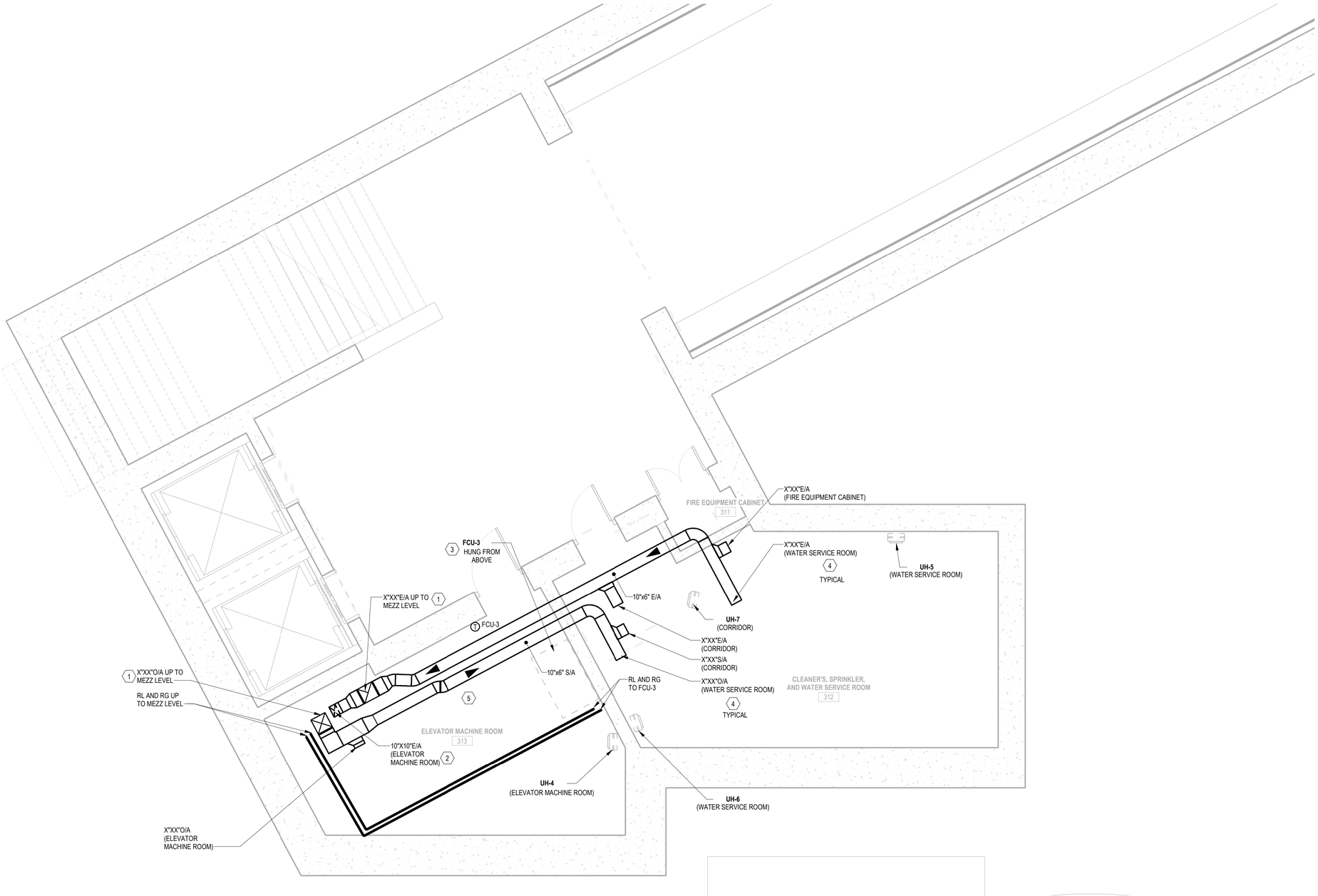
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
MEZZANINE LEVEL PLAN

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-M-101	110 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



1 PASSAGEWAY LEVEL PLAN - WEST END
B09-M-102.1 1/4" = 1'-0"

SHEET NOTES:

1) SEE M.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES

KEYNOTES:

1. FURNISH AND INSTALL FIRE DAMPER AT WALL/FLOOR PENETRATION. PROVIDE ACCESS DOOR FOR INSPECTION. REFER TO ARCHITECTURAL PLANS FOR FIRE RATING.
2. FURNISH AND INSTALL VOLUME DAMPER AND GRILL WITHIN CEILING OF ELEVATOR MACHINE ROOM. PROVIDE ACCESS DOOR FOR BALANCING AND FIRE INSPECTION PURPOSES. MAINTAIN FIRE RATINGS AS INDICATED ON THE ARCHITECRUAL CONTRACT DRAWINGS.
3. ROUTE CONDENSATE FROM THE FAN COIL UNIT TO THE MOP SINK LOCATED IN THE WATER SERVICE ROOM. CONNECT PIPING FROM LEVEL ABOVE AND TERMINATE PER THE PLUMBING CODE.
4. FURNISH AND INSTALL A GRILLE WITH OPPOSED BLADE DAMPER AT EACH SUPPLY AND EXHAUST POINT, AND PROVIDE OPPOSED BLADE VOLUME DAMPER FOR BALANCING PURPOSES.
5. ALL DUCTWORK AND PIPING IN THIS AREA NOT SPECIFICALLY SERVING THE ELVATOR WILL NEED TO BE INSTALLED IN A FIRE RATED SOFFIT. SEE ARCHITECURE PLANS FOR MORE DETAIL.

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

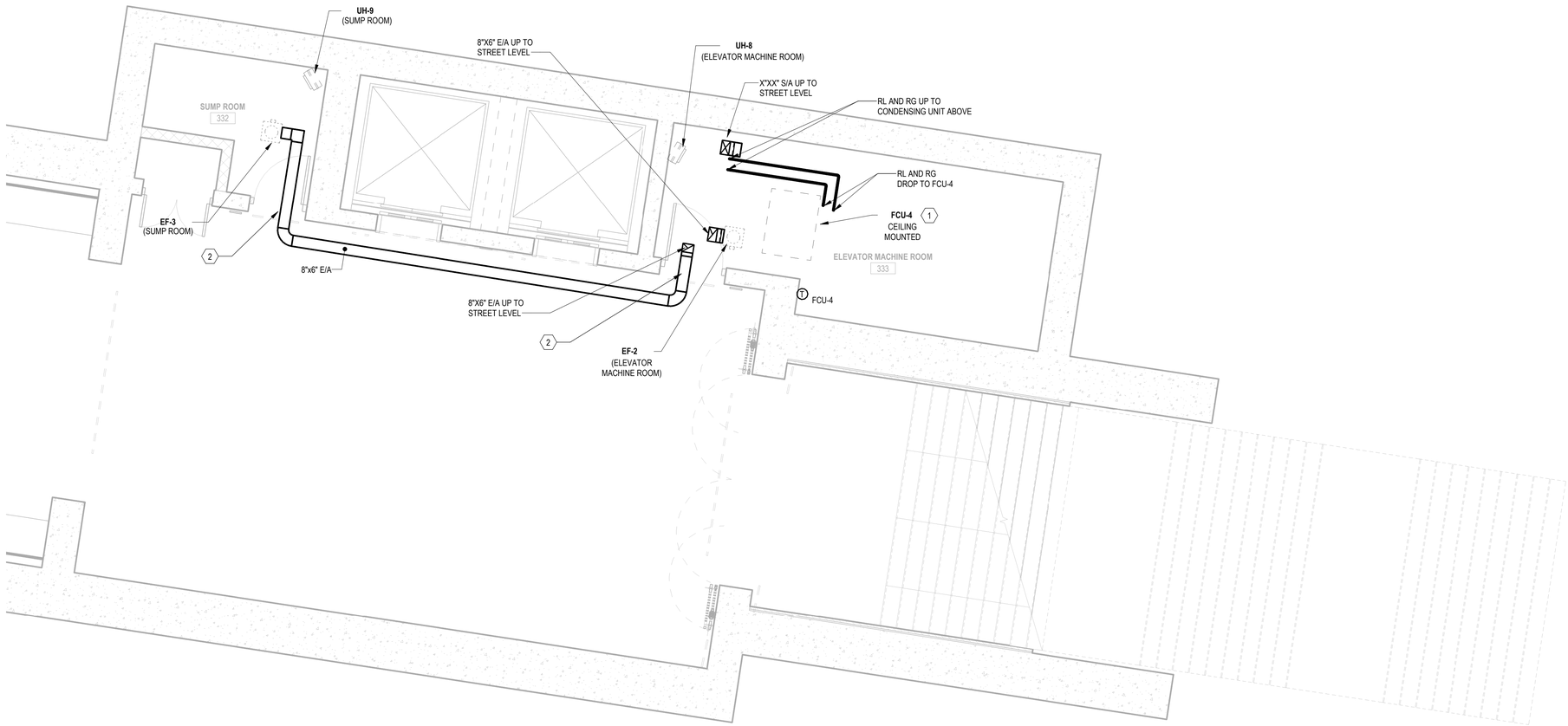
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
PASSAGEWAY LEVEL MECHANICAL PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-M-102.1	111 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



1 PASSAGEWAY LEVEL PLAN - EAST END
B09-M-102.2 1/4" = 1'-0"

SHEET NOTES:

1) SEE M.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES

KEYNOTES:

1. ROUTE CONDENSATE ADJACENT TO THE EXHAUST DUCTWORK THAT SERVES THE SUMP PUMP ROOM. CONDENSATE SHALL TERMINATE AT WITHIN THE SUMP PUMP ROOM VIA AN INDIRECT WASTE RECPTACLE. SEE PLUMBING DRAWINGS FOR CONNECTION POINT
2. FURNISH AND INSTALL FIRE DAMPER AT WALL PENETRATION. UTILIZE GRILLE FOR ACCESS TO INSPECT FIRE DAMPER AS REQUIRED. DUCT SHALL BE ROUTED SO IT IS CONCEALED ABOVE THE CEILING. COORDINATE THE CORING OF THE BEAM WITH THE STRUCUTRAL DESIGN DOCUMENTS.

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

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B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
PASSAGEWAY LEVEL PLAN - EAST END

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-M-102.2	112 OF 183

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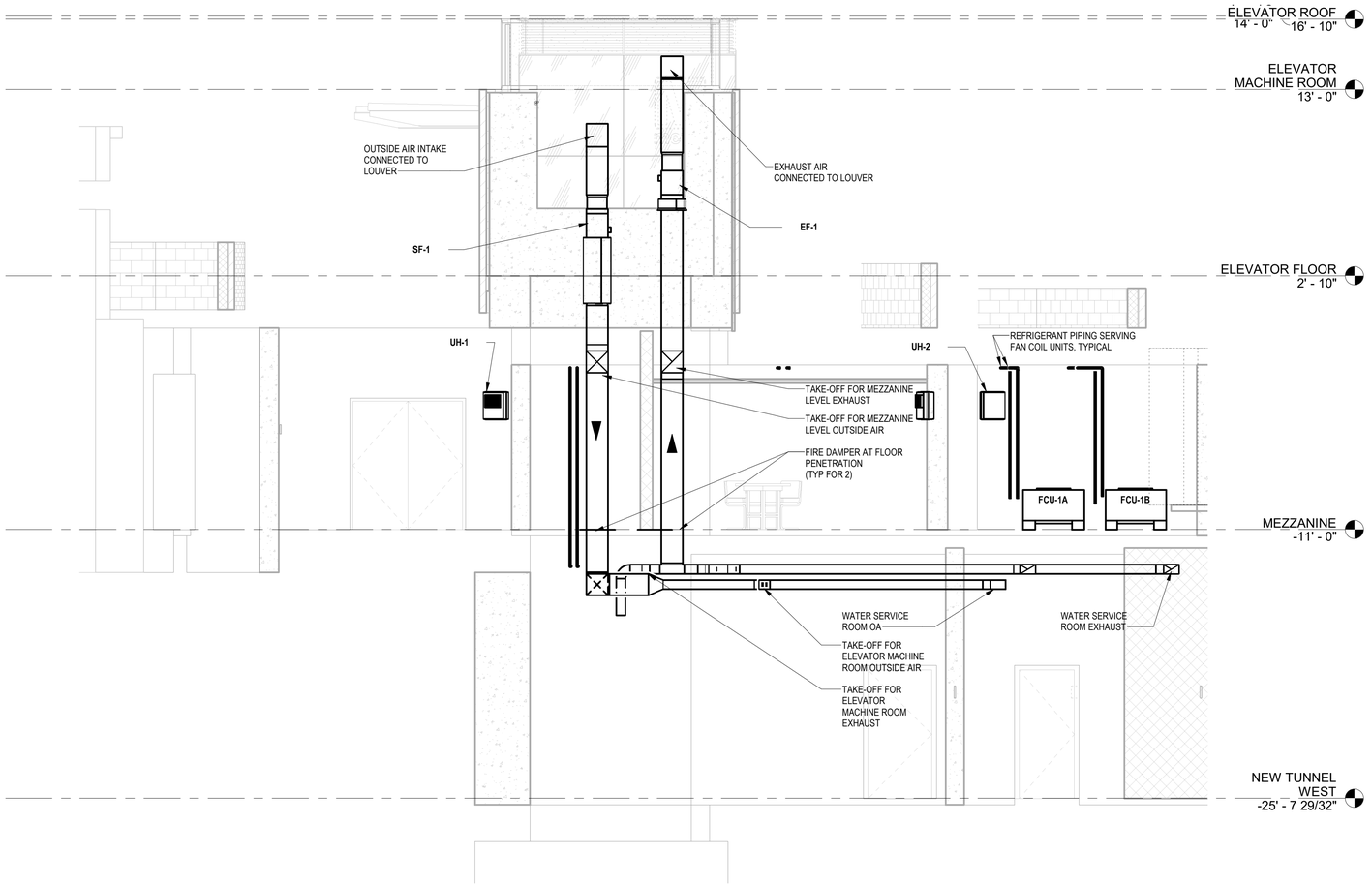


1 B09-M-301 HVAC SECTION - WEST END DUCT RISERS
1/4" = 1'-0"

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS			
DRAWN	DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
CHECKED	DATE						
APPROVED	DATE						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

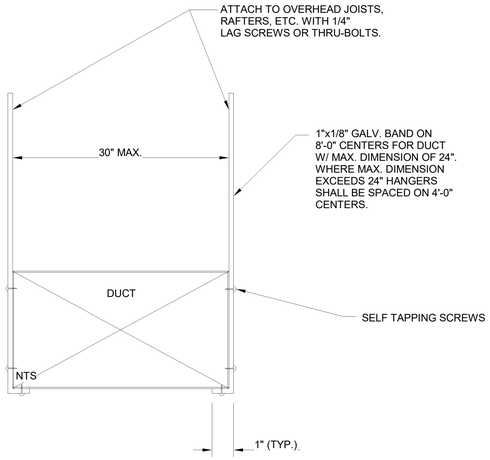
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

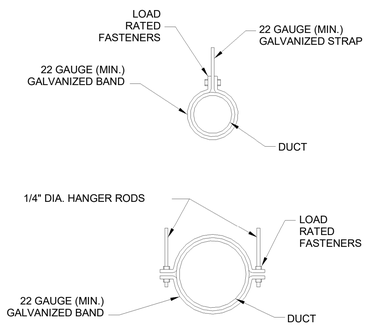
SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
SECTION VIEWS

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	B09-M-301	113 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

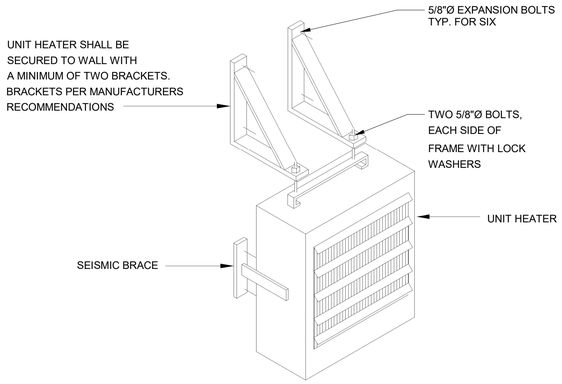




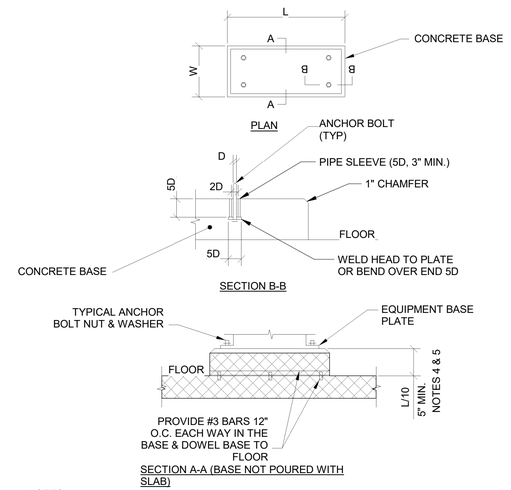
NOTES:

1. APPLICABLE UP TO 26" DIA. DUCT ONLY.

1 B09-M-501 DUCT HANGER DETAILS
NOT TO SCALE



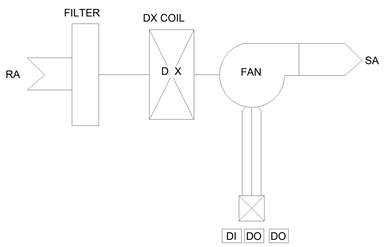
2 B09-M-501 ELECTRIC UNIT HEATER DETAIL
NOT TO SCALE



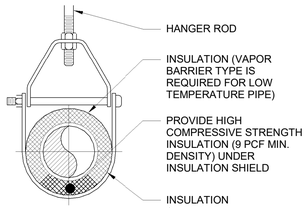
NOTES:

1. L & W DIMENSIONS SHALL BE 6" GREATER THAN THE EQUIPMENT BASE PLATE.
2. REMOVE EXISTING BASE AND INSTALL NEW BASE AS SHOWN ON THIS DETAIL.
3. MAINTAIN HEIGHT OF THE NEW BASE THE SAME HEIGHT AS THE EXISTING BASE.
4. HEIGHT OF THE BASE MAY BE ADJUSTED AS REQUIRED TO MINIMIZE EXISTING PIPING REWORK.

3 B09-M-501 CONCRETE EQUIPMENT PAD
NOT TO SCALE



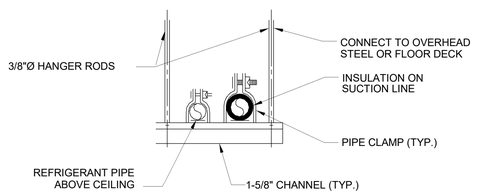
4 B09-M-501 FAN COIL UNIT CONTROL DETAIL
NOT TO SCALE



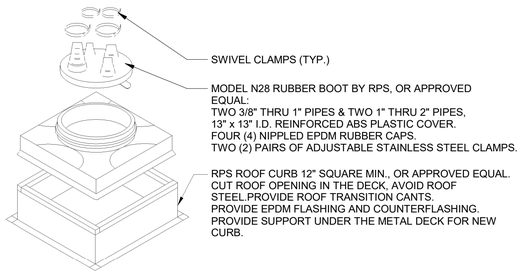
NOTES:

1. USE PVC JACKETING FOR ALL PIPING IN EXPOSED AREAS SUCH AS MECHANICAL ROOMS, TUNNEL, ETC.

5 B09-M-501 TYPICAL PIPE HANGER DETAIL
NOT TO SCALE



6 B09-M-501 REFRIGERANT PIPING RACK DETAIL
NOT TO SCALE



7 B09-M-501 REFRIGERANT PIPING ROOF PENETRATION DETAIL
NOT TO SCALE

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN MECHANICAL INSTALLATION DETAILS

SCALE	DRAWING NO.	SHEET NO.
NOT TO SCALE	B09-M-501	114 OF 183

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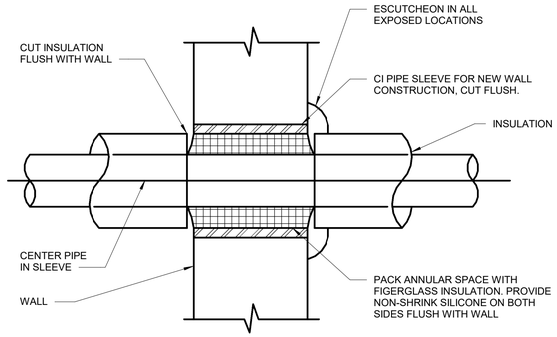
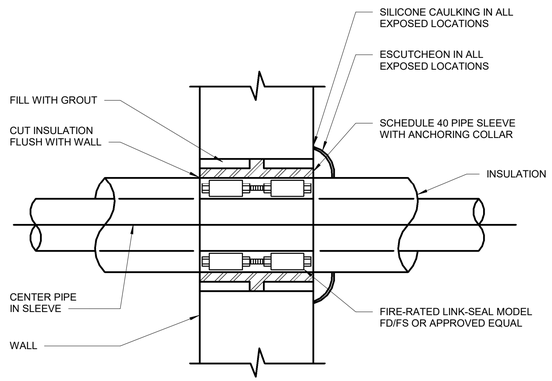


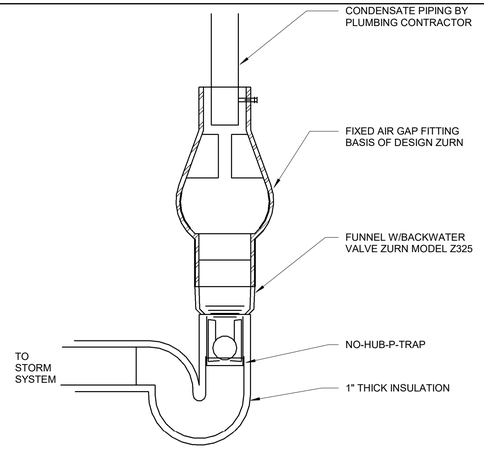
NOTES:
1) CORE DRILL ONE PIPE SIZE LARGER FOR EXISTING MASONRY OR CONCRETE CONSTRUCTION
2) CIRCLE OUT FOR STUD CONSTRUCTION. PROVIDE GALVANIZED TUBE SLEEVE.

1 B09-M-502 PIPE PENETRATION THROUGH NON-RATED WALL
NOT TO SCALE

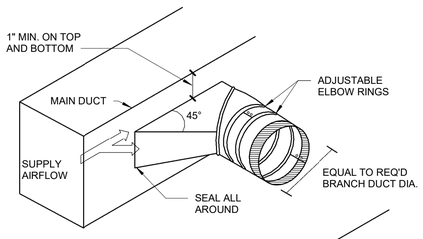


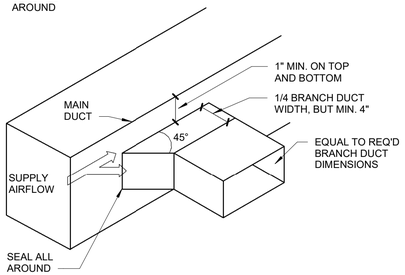
NOTES:
1) ONE-HOUR FM APPROVED. LISTING #J.I.OH4A5.AC

2 B09-M-502 PIPE PENETRATION THROUGH RATED WALL
NOT TO SCALE

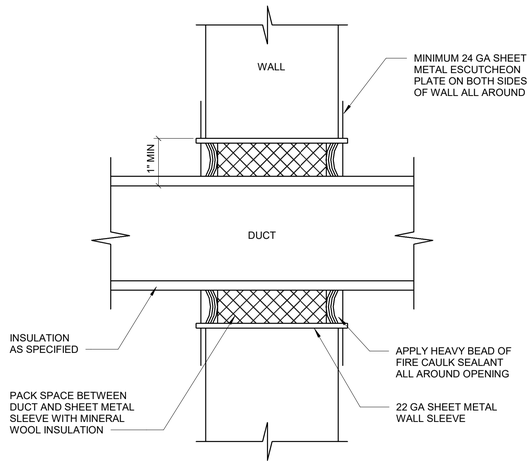


3 B09-M-502 CONDENSATE PIPING CONNECTION
NOT TO SCALE





4 B09-M-502 DUCT TAKEOFFS
NOT TO SCALE



5 B09-M-502 DUCT WALL PENETRATION
NOT TO SCALE

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN MECHANICAL INSTALLATION DETAILS

SCALE	DRAWING NO.	SHEET NO.
NOT TO SCALE	B09-M-502	115 OF 183

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FAN COIL UNIT

TAG	LOCATION	TYPE	AIRFLOW (MAX)	TOTAL COOLING CAPACITY (MBH)	SENSIBLE	EAT (°F)	LAT (°F)	SOUND PRESSURE	LIQUID	GAS	MFA	MCA	V	PH	Hz	LENGTH	DEPTH	HEIGHT	WEIGHT (LBS)	MANUFACTURER	MODEL	MATCH CU	NOTES
FCU-1A	COMMUNICATIONS ROOM	WALL MOUNTED	635	36.0	22.9	85	55	-	3/8	5/8	25	19.5	208	1	60	47"	9-1/2"	13-1/2"	38	DAIKIN	FTXS36LVJU	CU-1A	1, 2, 3, 4
FCU-1B	COMMUNICATIONS ROOM	WALL MOUNTED	635	36.0	22.9	85	55	-	3/8	5/8	25	19.5	208	1	60	47"	9-1/2"	13-1/2"	38	DAIKIN	FTXS36LVJU	CU-1B	1, 2, 3, 4
FCU-2	ELECTRICAL ROOM	WALL MOUNTED	611	30.0	19.9	85	55	-	3/8	5/8	20	19.5	208	1	60	47"	9-1/2"	13-1/2"	38	DAIKIN	FTXS30LVJU	CU-2	1, 2, 3, 4
FCU-3	WEST END ELEVATOR MACHINE ROOM	DECK HUNG	2,541	96.0	71.0	85	55	49	3/8	7/8	15	10.7	208	1	60	54"	43"	18"	302	DAIKIN	FXMQ96MVJU	CU-3	1, 2, 3, 4
FCU-4	EAST END ELEVATOR MACHINE ROOM	DECK HUNG	2,541	96.0	71.0	85	55	49	3/8	7/8	15	10.7	208	1	60	54"	43"	18"	302	DAIKIN	FXMQ96MVJU	CU-4	1, 2, 3, 4
FCU-5	BREAK ROOM	WALL MOUNTED	200	8	5	85	70		3/8	5/8			208	1	60					DAIKIN		CU-5	1, 2, 3, 4

NOTES:
1) FURNISH AND INSTALL WALL MOUNTED SUPPORTS AND INSTALL ALL COMPONENTS PER THE INSTALLATION AND OPERATION MANUAL
2) COORDINATE WITH ELECTRICAL CONTRACT DRAWINGS FOR LOCATION OF DISCONNECT.
3) FURNISH AND INSTALL CONDENSATE PUMP AND ROUTE PIPING TO NEAREST DRAIN
4) FINAL EQUIPMENT SELECTIONS SHALL BE COORDINATED AND FINALIZED DURING THE DESIGN DEVELOPMENT PHASE.

FAN SCHEDULE

TAG	AREA SERVED	LOCATION	CFM	FAN RPM	ESP(IN. WC.)	HP	V	PH	Hz	FAN TYPE	DRIVE	L X W / DIAMETER	HEIGHT	WEIGHT (LBS)	MANUFACTURER	MODEL	NOTES
EF-1	BACK OF HOUSE AREAS	MECHCANICAL SHAFT	650	1933	1	1/2	120	1	60	IN-LINE	DIRECT	20"X16"	17-1/2"	161	COOK	SQN-D-VF SIZE 120	1, 2
EF-2	EAST END MACHINE ROOM	MACHINE ROOM	100	852	0.6	<1/10	120	1	60	CENTRIFUGAL	DIRECT	12X15	6-1/2"	19	COOK	GC-186	2, 3
EF-3	EAST SUMP PIT ROOM	SUMP PIT ROOM	100	852	0.6	<1/10	120	1	60	CENTRIFUGAL	DIRECT	12X15	6-1/2"	19	COOK	GC-186	2, 3
SF-1	BACK OF HOUSE AREAS	MECHCANICAL SHAFT	650	1933	1	1/2	120	1	60	IN-LINE	DIRECT	20"X16"	17-1/2"	161	COOK	SQN-D-VF SIZE 120	1, 2

NOTES:
1) FURNISH AND INSTALL SUPPLEMENTAL STEEL WITHIN SHAFT ADJACENT TO THE ELEVATOR TO PROPERLY SUPPORT THE EQUIPMENT PER THE INSTALLATION AND OPERATION MANUAL
2) COORDINATE WITH ELECTRICAL CONTRACT DRAWINGS FOR LOCATION OF DISCONNECT.
3) FURNISH AND INSTALL ANCHORS, THREADED RODS, AND UNISTRUT TO PROVIDE A SUPPORT FOR THE FAN HOUSING.

UNIT HEATER

TAG	LOCATION	TYPE	CFM	MBH	KW	MAX FLA	MOTOR RPM	VOLTAGE	PHASE	HZ	MANUFACTURER	MODEL	NOTES
UH-1	MEZZANINE CORRIDOR	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-2	COMMUNICATIONS ROOM	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-3	ELECTRICAL ROOM	WALL HUNG, HORIZONTAL THROW	530	17.1	5.0	6.6	1550	480	3	60	MODINE	HER50	1, 2
UH-4	WEST ELEVATOR MACHINE ROOM	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-5	WATER SERVICE ROOM	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-6	WATER SERVICE ROOM	WALL HUNG, HORIZONTAL THROW	530	17.1	5.0	6.6	1550	480	3	60	MODINE	HER50	1, 2
UH-7	PASSAGE LEVEL CORRIDOR	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-8	EAST ELEVATOR MACHINE ROOM	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-9	EAST END SUMP PUMP ROOM	WALL HUNG, HORIZONTAL THROW	530	25.6	7.5	9.6	1550	480	3	60	MODINE	HER75	1, 2
UH-10	BREAK ROOM	WALL HUNG, HORIZONTAL THROW	530	17.1	5.0	6.6	1550	480	3	60	MODINE	HER75	

NOTES:
1) FURNISH AND INSTALL WALL MOUNTED SUPPORTS UNLESS OTHERWISE NOTED.
2) COORDINATE WITH ELECTRICAL CONTRACT DRAWINGS FOR LOCATION OF DISCONNECT.

AIR COOLED CONDENSING UNIT SCHEDULE

TAG	LOCATION	TOTAL COOLING (MBH)	CONDENSER FAN QUANTITY	CONDENSER FAN CFM	COMPRESSOR QUANTITY	REFRIGERANT TYPE	GAS LINE SIZE	LIQUID LINE SIZE	SEER	MCA	MOCP	V/PH/HZ	LXWXH	MANUFACTURER	MODEL	NOTES
ACCU-1A	MECHANICAL YARD	36.0	1	2,627	1	R-410A	5/8"	3/8"	17.9	19.5	20	208/1/60	39"X37"X12-1/2"	DAIKIN	RKS36LVJU	1, 2, 3
ACCU-1B	MECHANICAL YARD	36.0	1	2,627	1	R-410A	5/8"	3/8"	17.9	19.5	20	208/1/60	39"X37"X12-1/2"	DAIKIN	RKS36LVJU	1, 2, 3
ACCU-2	MECHANICAL YARD	30.0	1	2,627	1	R-410A	5/8"	3/8"	19.3	19.5	20	208/1/60	38"X37"X12-1/2"	DAIKIN	RKS30LVJU	1, 2, 3
ACCU-3	MECHANICAL YARD	92.0	2	5,827	1	R-410A	7/8"	3/8"	22	20.6	25	460/3/60	48"X30"X66"	DAIKIN	RXYQ96TYDN	1, 2, 3
ACCU-4	NEW HEADHOUSE VENT SHAFT	92.0	2	5,827	1	R-410A	7/8"	3/8"	22	20.6	25	460/3/60	48"X30"X66"	DAIKIN	RXYQ96TYDN	1, 2, 3

NOTES:
1) FURNISH AND INSTALL ROOF CURB TO MOUNT CONDENSING UNIT. COORDINATE WITH THE ARCHITECTURAL CONTRACT DRAWINGS FOR ROOFING INFORMATION AND REPAIR DETAILS.
2) COORDINATE WITH ELECTRICAL CONTRACT DRAWINGS FOR LOCATION OF DISCONNECT.
3) MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR SYSTEM START UP.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
MECHANICAL
SCHEDULES

SCALE | DRAWING NO. B09-M-601 | SHEET NO. 116 OF 183

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GENERAL PLUMBING SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- Room 4 — ROOM NAME AND NUMBER
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- NEW WORK
- (E) - EXISTING TO REMAIN
- (D) - TO BE DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BEL	BELOW	MISC	MISCELLANEOUS
BFF	BELOW FINISHED FLOOR	MR	MOP RECEPTOR
BFP	BACKFLOW PREVENTER	MTR	MOTOR
BLW	BELOW	MU/A	MAKE-UP/AIR
BTU	BRITISH THERMAL UNITS	NC	NORMALLY CLOSED
BTUH	BRITISH THERMAL UNITS PER HOUR	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO.	NUMBER
CB	CATCH BASIN	N.O.	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CLG	CEILING	O/A	OUTSIDE AIR
CO	CLEAN OUT	PD	PUMPED DRAINAGE
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PLBG	PLUMBING
DB	DRY BULB	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
(E)	EXISTING	PSIG	POUNDS PER SQUARE INCH GAUGE
EA	EACH	PWR	POWER
EAT	ENTERING AIR TEMPERATURE	R/A	RETURN AIR
ELEC	ELECTRICAL	RD	ROOF DRAIN
EQUIP	EQUIPMENT	REC	RECESSED
EWC	ELECTRIC WATER COOLER	RED	REDUCER
EWT	ENTERING WATER TEMPERATURE	RG	REFRIGERANT GAS
E/A	EXHAUST AIR	RH	RELATIVE HUMIDITY
ESP	ELEVATOR SUMP PUMP	RL	REGRIGERANT LIQUID
EWH	ELECTRIC WATER HEATER	RL/A	RELIEF AIR
F	DEGREES FAHRENHEIT	RM	ROOM
FCO	FLOOR CLEAN OUT	RPM	REVOLUTIONS PER MINUTE
FD	FLOOR DRAIN	RPZ	REDUCED PRESSURE ZONE
FDC	FIRE DEPARTMENT CONNECTION	RW	RAIN WATER
FL	FLOOR	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
GAL	GALLON	SD	STORM DRAIN
GF	GAS-FIRED	SK	SINK
GC	GENERAL CONTRACTOR	SM	SURFACE MOUNT
GPM	GALLONS PER MINUTE	SP	SUMP PUMP
HB	HOSE BIB	T	THERMOSTAT
HP	HORSE POWER	TD	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TP	TRAP PRIMER
HW	HOT WATER	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INDIRECT	VAC	VACUUM
IN	INCH	V	VENT
INV	INVERT	VAV	VARIABLE AIR VOLUME
LB	POUND	VENT	VENTILATION
LB/HR	POUNDS PER HOUR	VTR	VENT THROUGH ROOF
LP	LOW PRESSURE	W/	WITH
LVL	LEVEL	W	WASTE
		WB	WET BULB
		WCO	WALL CLEAN OUT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
CUH	CABINET UNIT HEATER	GI	GREASE INTERCEPTOR
DBP	DOMESTIC WATER BOOSTER PUMP	GRV	GRAVITY ROOF VENTILATOR
DC	DUCT MOUNTED COIL	PRV	POWER ROOF VENTILATOR
DCP	DOMESTIC WATER CIRCULATING PUMP	RTU	ROOFTOP UNIT
EF	EXHAUST FAN	SP	SUMP PUMP
EDC	ELECTRIC DUCT COIL	UH	UNIT HEATER
		WH	WATER HEATER

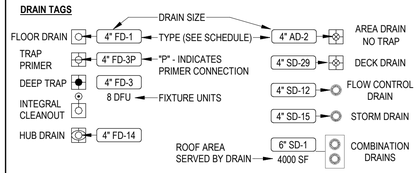
PLUMBING SYMBOLS AND ABBREVIATIONS

PIPING LEGEND	SYSTEM NAME	ABBREVIATION
	CONDENSATE DRAINAGE	CD
	NATURAL GAS	G
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	PUMP DISCHARGE	PD
	SANITARY VENT	V
	SANITARY SEWER	SAN
	STORM DRAINAGE	SD
	OVERFLOW STORM DRAINAGE	OSD

PIPE ACCESSORY TAGS

- CLEANOUT
- SWING CHECK
- CHECK VALVE
- (ALTERNATE CHECK VALVE SYMBOL)
- RECIRC. VALVE
- GATE VALVE
- QUICK OPENING
- BALL VALVE
- STRAINER
- TRAP PRIMER
- ELEC. CONTROL
- THERMOSTATIC MIXING
- PRESS REDUCING
- DOM. WATER METER
- EMERG. GAS SHUTOFF
- PLUG VALVE
- GAS SHUTOFF COCK
- PRESS REGULATOR
- DOUBLE CHECK VALVE
- REDUCED PRESSURE ZONE

DRAIN TAGS



* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING GENERAL NOTES

1. BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION, SIZE, AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS, AND WATER PRESSURE.
2. THESE PLANS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
4. ALL VENTS THRU ROOF SHALL BE MINIMUM OF TEN FEET FROM ANY FRESH AIR INTAKES.
5. CLEANOUTS SHALL BE INSTALLED PER 2021 INTERNATIONAL PLUMBING CODE.
6. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN STATE. FIRE MARSHALL STANDARD 43-1, AND SHALL BE U.L. LISTED.
7. COORDINATE WITH ELECTRICAL SECTION PRIOR TO ORDERING EQUIPMENT FOR AVAILABLE VOLTAGE AT EQUIPMENT LOCATIONS.
8. ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
9. ALL HOSE BIBBS SHALL HAVE AN APPROVED VACUUM BREAKER.
10. PROVIDE FLASHING AND/OR COUNTER FLASHING OF ALL EXTERIOR PENETRATIONS.
11. UNLESS SPECIFICALLY SHOWN ON THESE PLANS, NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOTCHED OR WELDED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
12. DRAINAGE PIPING SHALL BE INSTALLED PER SECTION 704 OF THE 2021 INTERNATIONAL PLUMBING CODE
13. HANGERS, CLAMPS AND GUIDES FURNISHED FOR SUPPORT OF NON-METALLIC PIPES SHALL BE PADDED WITH 1/8" THICK RUBBER, NEOPRENE, OR SOFT RESILIENT CLOTH.
14. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS TO ENSURE PROPER CLEARANCE ABOVE ELECTRICAL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, AND MOTOR CONTROL CENTERS WHERE REQUIRED BY NATIONAL ELECTRICAL CODE AND PROVIDE DRIP PANS OVER ELECTRICAL SERVICE EQUIPMENT, SWITCH GEAR, AND INDUSTRIAL CONTROL ASSEMBLIES WHERE REQUIRED BY REQUIRED BY THE NATIONAL ELECTRICAL CODE.
15. WASTE & VENT:

15.1 A WATER TEST, IN SECTIONS OR IN ITS ENTIRETY, SHALL BE PERFORMED ON THE SANITARY AND SANITARY VENT IN ACCORDANCE TO THE 2021 INTERNATIONAL PLUMBING CODE SECTION 312.2. AN AIR TEST, EXCEPT FOR PLASTIC PIPING, MAY BE SUBSTITUTED IN ACCORDANCE TO SECTION 312.3.

15.2 SLOPE SANITARY & SEWER PIPING 2-1/2" AND SMALLER AT 1/4" PER 1'-0" GRADE. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER 1'-0" UNLESS OTHERWISE NOTED.

16. UPON COMPLETION OF A SECTION OR OF THE ENTIRE HOT AND COLD WATER SUPPLY SYSTEM, IT SHALL BE TESTED AND PROVED TIGHT UNDER A WATER PRESSURE NOT LESS THAN THE WORKING PRESSURE UNDER WHICH IT IS TO BE USED. THE WATER USED FOR TESTS SHALL BE OBTAINED FROM A POTABLE SOURCE OF SUPPLY. EXCEPT FOR PLASTIC PIPING, A FIFTY PSI AIR PRESSURE SHALL BE PERMITTED TO BE SUBSTITUTED FOR THE WATER TEST. IN EITHER METHOD OF TEST, THE PIPING SHALL WITHSTAND THE TEST WITHOUT LEAKING FOR A PERIOD OF NOT LESS THAN FIFTEEN MINUTES. THE REQUIRED TESTS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 312.5 AND 112 OF THE 2021 INTERNATIONAL PLUMBING CODE.
17. STORM PIPING SHALL BE SLOPED AT 1/8" PER 1'-0" UNLESS OTHERWISE NOTED.
18. DO NOT INSTALL DRAINAGE OR SUPPLY PIPING IN ELECTRICAL ROOMS, ELEVATOR MACHINE ROOMS, COMMUNICATION ROOMS, TRANSFORMER VAULTS, ELECTRICAL CLOSETS, OR SIMILAR AREAS.
19. ALL COLD WATER, HOT WATER, STORM PIPING, AND SANITARY VENT PIPING ARE LOCATED ABOVE CEILING UNLESS OTHERWISE NOTED. ALL SANITARY AND WASTE PIPING ARE LOCATED BELOW THE FLOOR UNLESS OTHERWISE NOTED.
20. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
21. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS OTHERWISE NOTED. REFER TO CIVIL PLANS.
22. BELOW GRADE SANITARY PIPING SHALL BE A MINIMUM OF 2".
23. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL SANITARY AND STORM RISERS.
26. THE PLUMBING CONTRACTOR SHALL PAY ALL FEES, GIVE NOTICE, FILE NECESSARY DRAWINGS, OBTAIN PERMITS AND CERTIFICATES OF APPROVAL REQUIRED FOR ALL WORK UNDER THIS CONTRACT. THE AUTHORITY HAVING JURISDICTION IS THE WASHINGTON SUBURBAN SANITARY COMMISSION (WSSC). THE PLUMBING WORK SHALL ADHERE TO THE WSSC 2021 PLUMBING AND FUEL GAS CODE.

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PLUMBING SHEET INDEX

B09-P-001	TITLE SHEET
B09-P-100. 1	STREET LEVEL PLAN - WEST END
B09-P-100. 2	STREET LEVEL PLAN - EAST END
B09-P-101	MEZZANINE LEVEL PLAN - WEST END
B09-P-102. 1D	PASSAGEWAY LEVEL DRAINAGE PLAN - WEST END
B09-P-102. 1S	PASSAGEWAY LEVEL SUPPLY PLAN - WEST END
B09-P-102. 2D	PASSAGEWAY LEVEL DRAINAGE PLAN - EAST END
B09-P-301	SANITARY AND STORM RISER DIAGRAM
B09-P-501	INSTALLATION DETAILS
B09-P-601	SCHEDULES

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____

DRAWN _____ DATE _____

CHECKED _____ DATE _____

APPROVED _____ DATE _____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
TITLE SHEET

SCALE	DRAWING NO.	SHEET NO.
NO SCALE	B09-P-001	117 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

SHEET NOTES:

1) SEE P.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES.

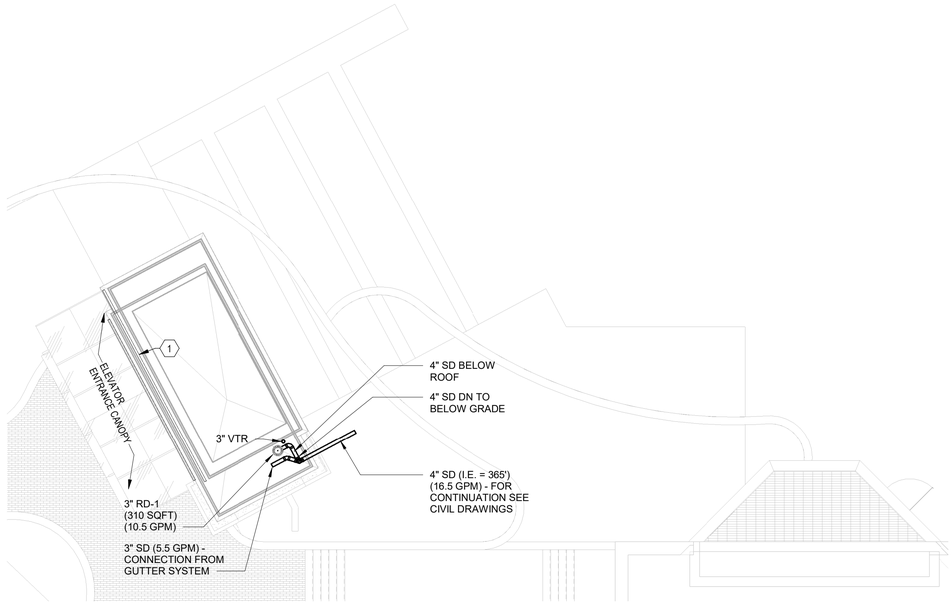
2) EQUIPMENT AND FIXTURE TAGS LOCATED ON THE DRAINAGE/PLUMBING PLANS.

3) ALL SANITARY AND WASTE PIPING IS SHOWN BELOW THE FLOOR UNLESS OTHERWISE NOTED. ALL OTHER PIPING IS SHOWN ABOVE CEILING UNLESS OTHERWISE NOTED.

4) FLOOR DRAINS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLANS.

KEYNOTES:

1. GUTTER TO BE INSTALLED BY OTHERS. SEE ARCHITECTURAL PLANS FOR MORE DETAIL. PROVIDE 3 INCH STORM DRAIN IN GUTTER AND CONNECT TO STORM RISER FROM RD-1.



1 / B09-P-100.1 STREET LEVEL PLUMBING PLAN - WEST END
1/8" = 1'-0"

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
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APPROVED ____ DATE ____

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
STREET LEVEL PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-P-100.1	118 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

SHEET NOTES:

1) SEE P.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES.

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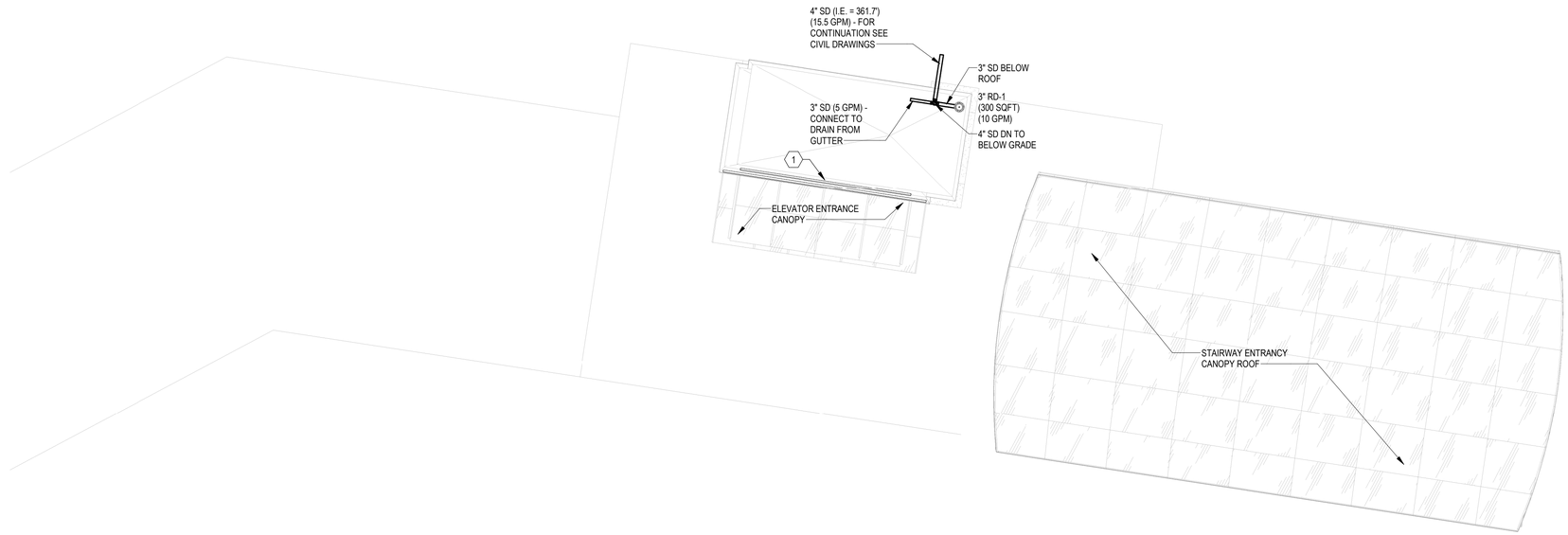
4) FLOOR DRAINS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLANS.

KEYNOTES:

1 GUTTER TO BE INSTALLED BY OTHERS. SEE ARCHITECTURAL PLANS FOR MORE DETAIL. PROVIDE 3 INCH STORM DRAIN IN GUTTER AND CONNECT TO STORM RISER FROM RD-1.



1 B09-P-100.2 STREET LEVEL PLUMBING PLAN - EAST END
1/8" = 1'-0"

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
STREET LEVEL PLAN - EAST END

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-P-100.2	119 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

SHEET NOTES:

1) SEE P.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES.

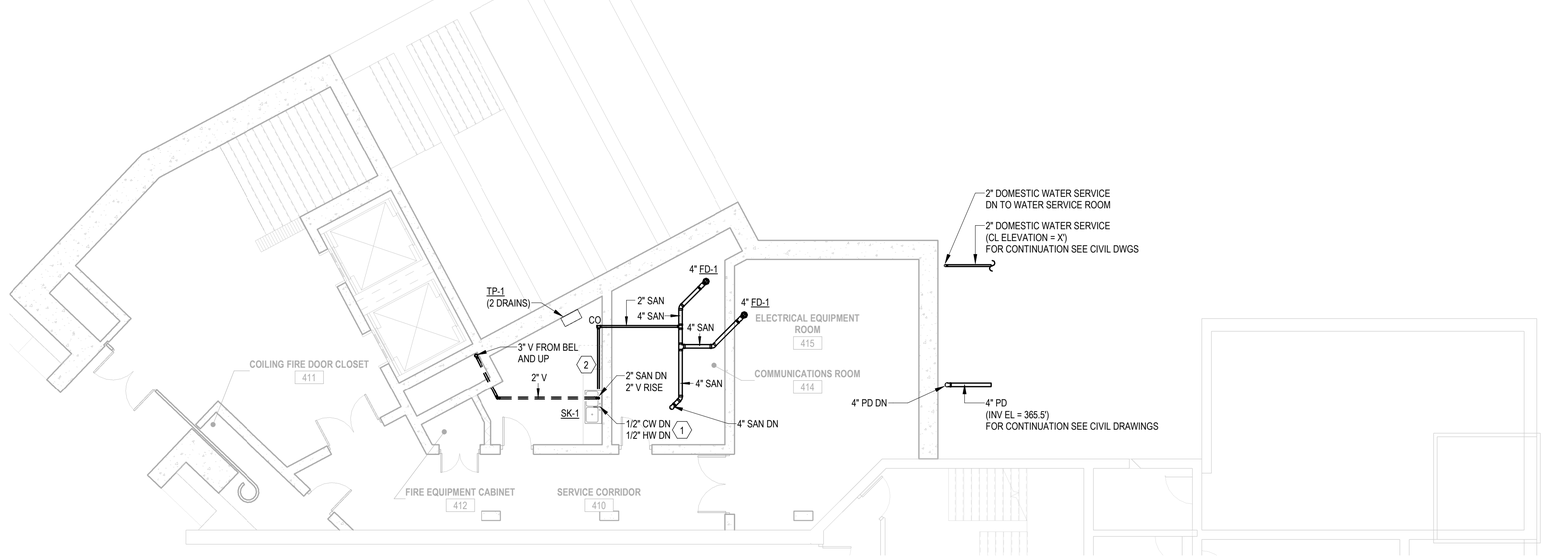
2) EQUIPMENT AND FIXTURE TAGS LOCATED ON THE DRAINAGE/PLUMBING PLANS.

3) ALL SANITARY AND WASTE PIPING IS SHOWN BELOW THE FLOOR UNLESS OTHERWISE NOTED. ALL OTHER PIPING IS SHOWN ABOVE CEILING UNLESS OTHERWISE NOTED.

4) FLOOR DRAINS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLANS.

KEYNOTES:

1. HOT AND COLD WATER TO BE SUPPLIED TO SK-1 FROM BELOW.
2. PIPING INSTALLED IN THIS AREA (ABOVE ELEVATOR MACHINE ROOM) WILL BE INSTALLED IN A FIRE RATED SOFFIT. SEE ARCHITECTURAL DRAWINGS FOR MORE DETAIL.



1 B09-P-101 MEZZANINE LEVEL PLUMBING - WEST END
1/8" = 1'-0"

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

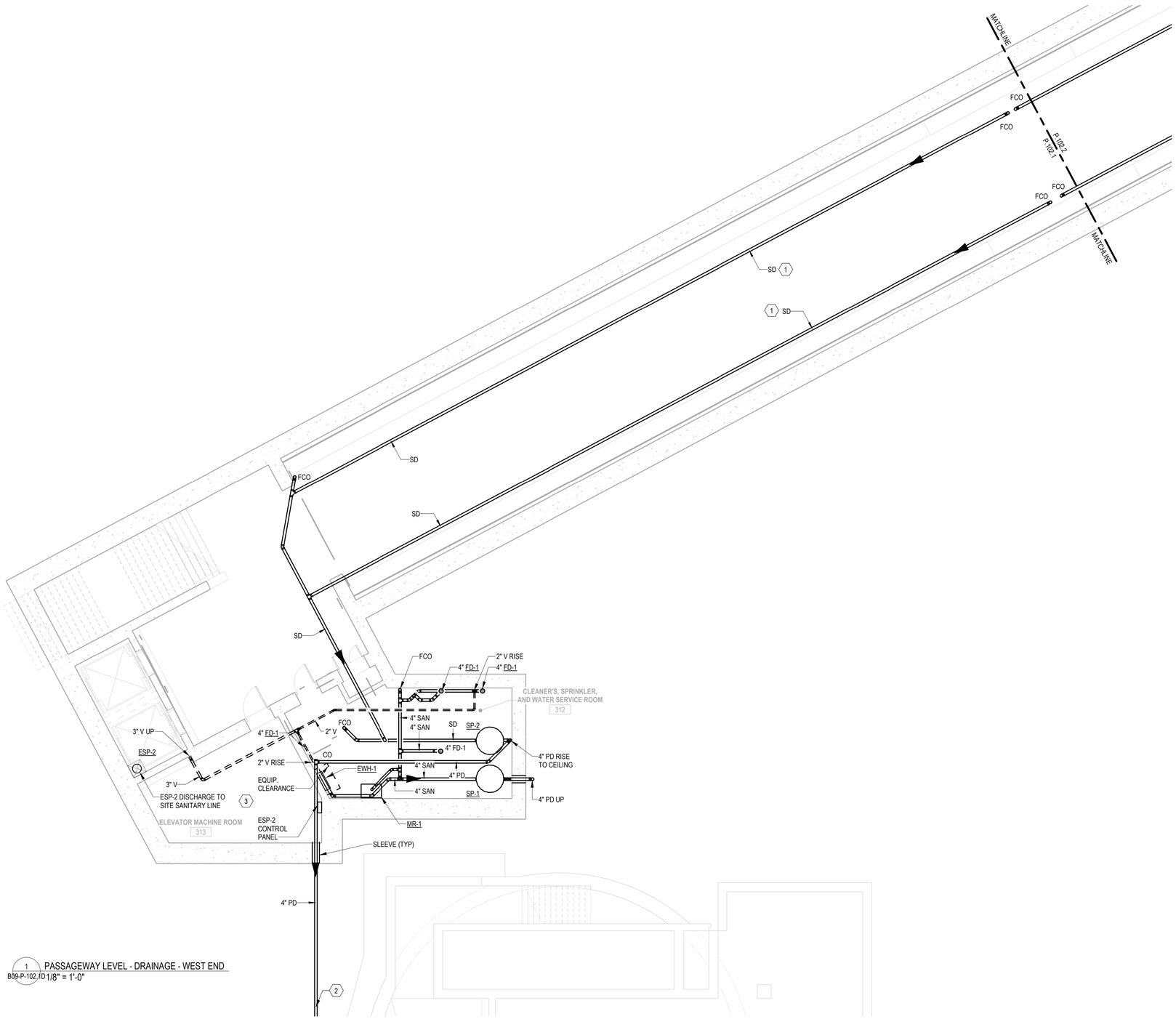
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
MEZZANINE LEVEL PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-P-101	120 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



1 PASSAGEWAY LEVEL - DRAINAGE - WEST END
B09-P-102.1D 1/8" = 1'-0"

SHEET NOTES:

1) SEE P.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES.

2) EQUIPMENT AND FIXTURE TAGS LOCATED ON THE DRAINAGE/PLUMBING PLANS.

3) ALL SANITARY AND WASTE PIPING IS SHOWN BELOW THE FLOOR UNLESS OTHERWISE NOTED. ALL OTHER PIPING IS SHOWN ABOVE CEILING UNLESS OTHERWISE NOTED.

4) FLOOR DRAINS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLANS.

KEY NOTES

1. PROVIDE MINIMUM 8" UNDERSLAB DRAINAGE PIPE WITH FLOOR CLEANOUTS AND CONNECTION INTO STORM SUMP PIT
2. PIPING INSTALLED UNDER EXISTING BUILDING SLAB. TRENCHING WORK OF EXISTING STATION FLOOW TO BE DONE WHILE ALLOWING STATION TO REMAIN OPEN AND OPERATIONAL. COORDINATE ALL WORK AND PHASING WITH WMATA AND SEE FINAL CONNECTION TO SITE DRAIN ON CIVIL DRAWINGS.
3. PIPING INSTALLED IN CEILING OF ELEVATOR MACHINE ROOM SHALL BE INSTALLED IN A 2 HOUR SOFFIT. SEE ARCHITECTURE PLANS FOR MORE DETAIL. PROVIDE A DRIP PAN WITH LEAK DETECTION UNDER SANITARY AND SUPPLY PIPING.

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
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APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

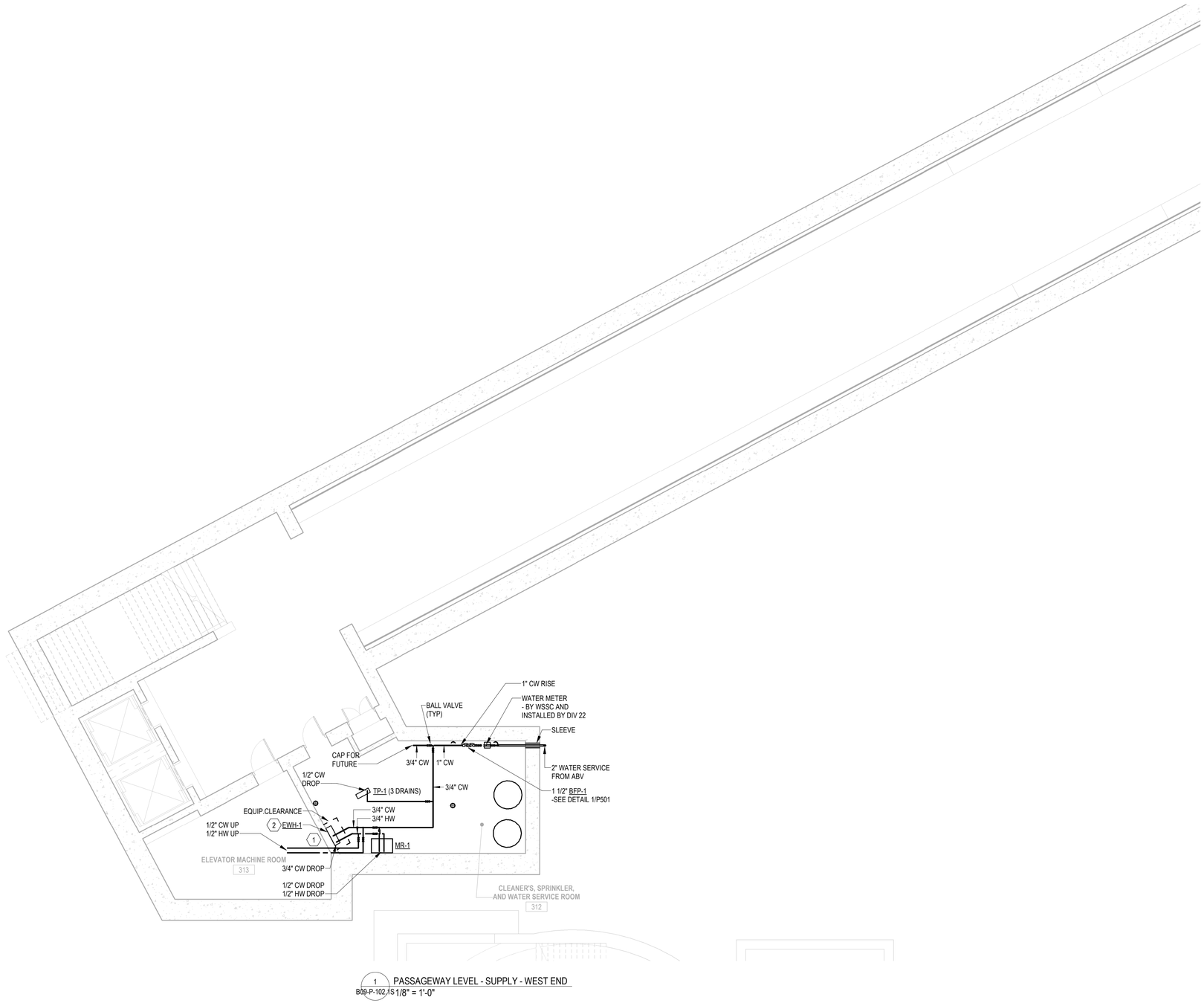
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
PASSAGEWAY LEVEL DRAINAGE PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-P-102.1D	121 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



1 PASSAGEWAY LEVEL - SUPPLY - WEST END
B09-P-102.1S 1/8" = 1'-0"

SHEET NOTES:

1) SEE P.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES.

2) EQUIPMENT AND FIXTURE TAGS LOCATED ON THE DRAINAGE/PLUMBING PLANS.

3) ALL SANITARY AND WASTE PIPING IS SHOWN BELOW THE FLOOR UNLESS OTHERWISE NOTED. ALL OTHER PIPING IS SHOWN ABOVE CEILING UNLESS OTHERWISE NOTED.

4) FLOOR DRAINS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLANS.

KEY NOTES

1. PIPING INSTALLED IN CEILING OF ELEVATOR MACHINE ROOM SHALL BE INSTALLED IN A 2 HOUR SOFFIT WITH DRIP PAN. SEE ARCHITECTURE PLANS FOR MORE DETAIL.
2. FURNISH AND INSTALL WALL MOUNTED ELECTRIC WATER HEATER, PIPING, INSULATION, SHUT OFF VALVES, AND ALL ASSOCIATED APPURTENANCES. ENSURE SERVICE CLEARANCE IS PROVIDED.

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
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REFERENCE DRAWINGS	
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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
PASSAGEWAY LEVEL SUPPLY PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-P-102.1S	122 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt

SHEET NOTES:

1) SEE P.001 FOR GENERAL NOTES, SYMBOLS, ABBREVIATIONS, AND SCOPE OF WORK NOTES.

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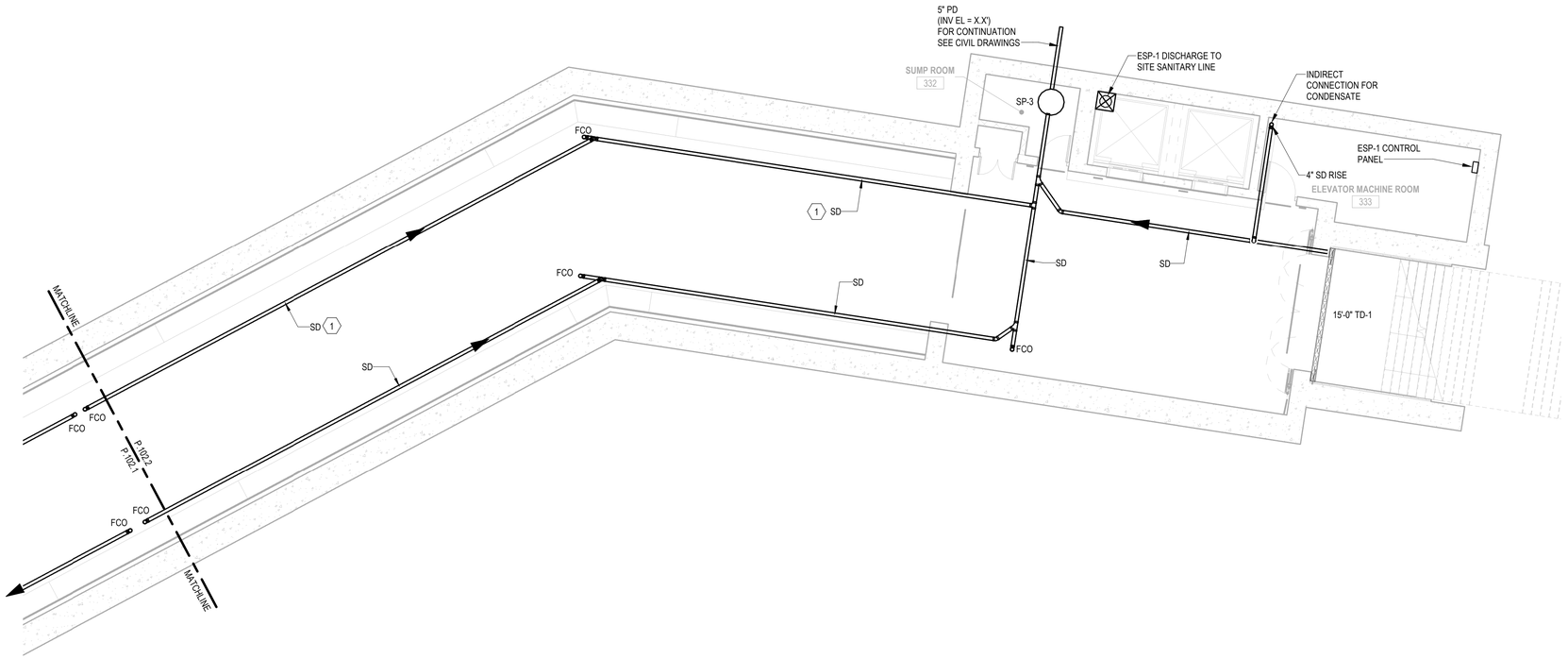
3) ALL SANITARY AND WASTE PIPING IS SHOWN BELOW THE FLOOR UNLESS OTHERWISE NOTED. ALL OTHER PIPING IS SHOWN ABOVE CEILING UNLESS OTHERWISE NOTED.

4) FLOOR DRAINS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLANS.

KEY NOTES

1 PROVIDE 8" UNDERSLAB DRAINAGE WITH FLOOR CLEANOUTS AND CONNECTION INTO STORM SUMP PIT



1 PASSAGEWAY LEVEL DRAINAGE PLAN - EAST END
B09-P-102.2D 1/8" = 1'-0"

N

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
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CHECKED	DATE		
APPROVED	DATE		

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

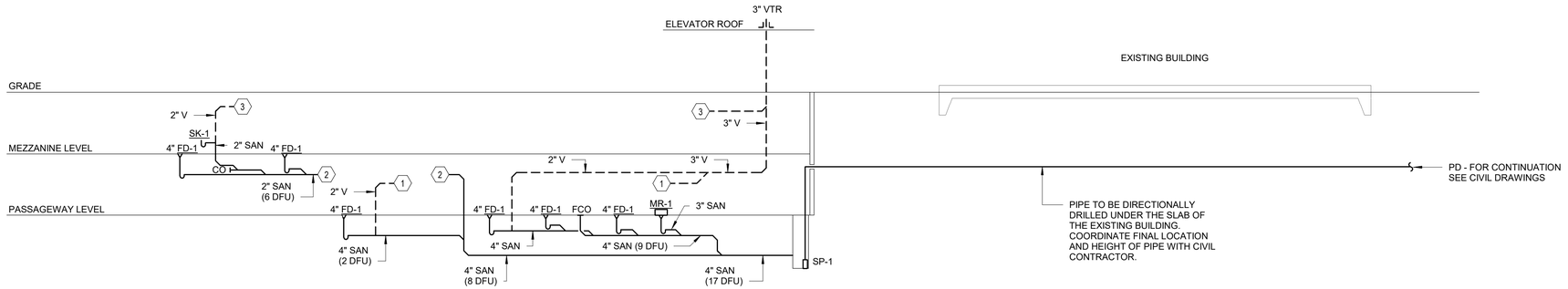
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

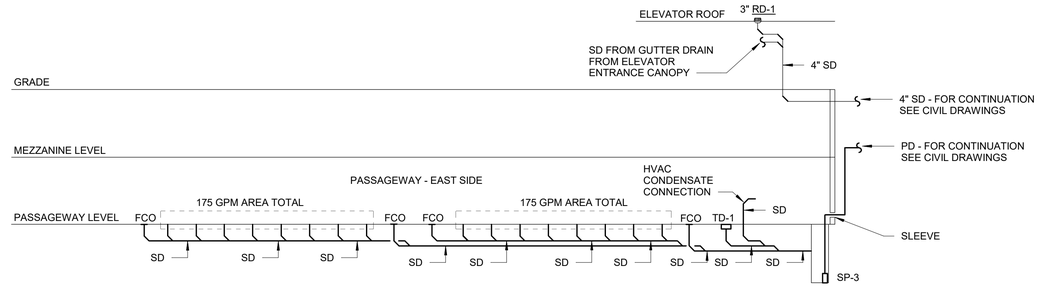
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
PASSAGEWAY LEVEL DRAINAGE PLAN - EAST END

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-P-102.2D	123 OF 183

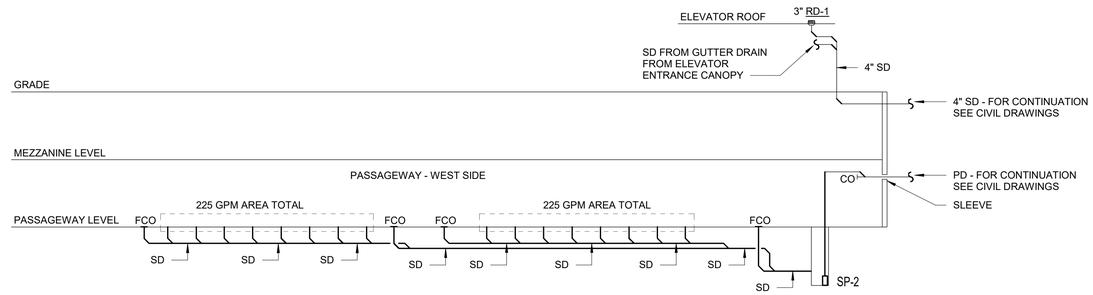
Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



1 B09-P-301 Sanitary Riser Diagram
NO SCALE



2 B09-P-301 Storm Riser Diagram - EAST
NO SCALE



3 B09-P-301 Storm Riser Diagram - WEST
NO SCALE

NOT FOR CONSTRUCTION

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DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

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NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

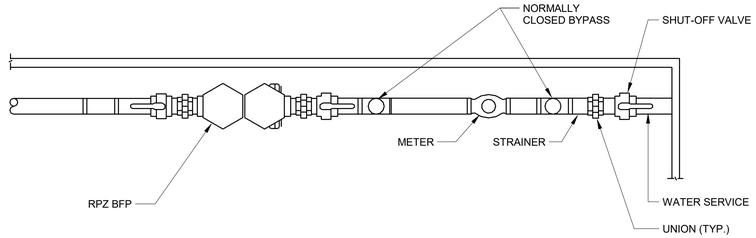
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

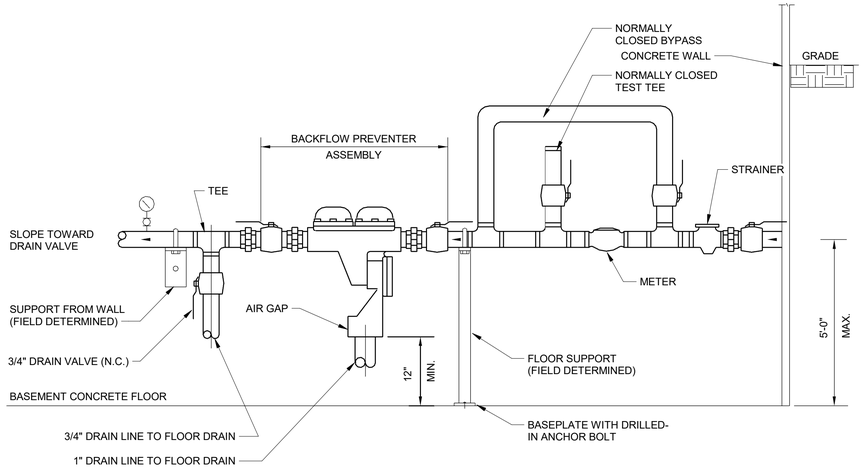
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN PLUMBING SANITARY AND STORM RISER DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NO SCALE	B09-P-301	124 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_MEP.rvt



PLAN

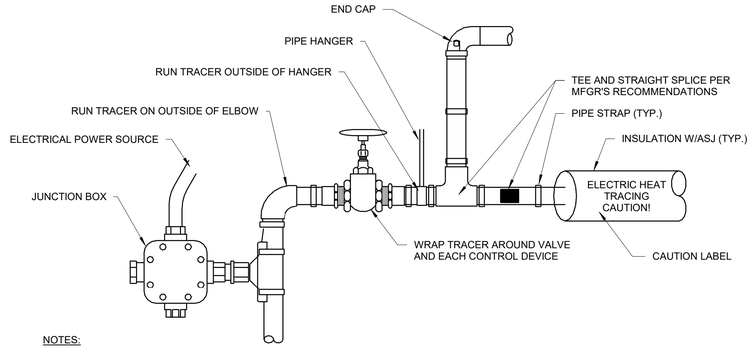


ELEVATION

NOTES:

1. COORDINATE INSTALLATION WITH REQUIREMENTS OF LOCAL WATER AUTHORITY AND AUTHORITY HAVING JURISDICTION.

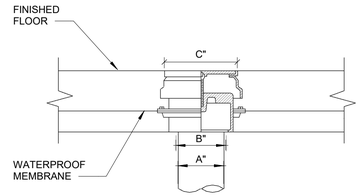
1 B09-P-501 BACKFLOW PREVENTER AND WATER METER INSTALLATION
NOT TO SCALE



NOTES:

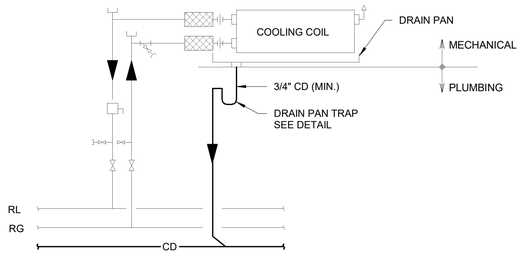
1. PROVIDE SELF-REGULATING ELECTRIC HEATING CABLE, CATALOG NO. SRF 3-1C BY CHROMALOX, OR APPROVED EQUAL
2. PROVIDE MANUFACTURER'S STANDARD END CAPS, TEES, STRAIGHT SPLICES AND JUNCTION BOXES.
3. ELECTRIC TRACING CABLE SHALL BE POWERED BY 120V/1 PH/60 HZ, 20A SERVICE.
4. ELECTRIC TRACING CABLE SHALL BE CONTINUOUS AND NOT EXCEED 30 L.F. POWER CONSUMPTION SHALL BE 3 W/L.F.
5. INSTALL ELECTRICAL HEAT TRACING TO PROTECT INCOMING WATER SERVICE, EXISTING SHUT-OFF VALVE, NEW APPURTENANCES INCLUDING BUT NOW LIMITED TO: RPZ BFP, WATER METER, STRAINER, DRAIN VALVE, ETC.
6. DRAIN LINES TO FLOOR DRAIN MAY BE WITHOUT INSULATION.
7. HEAT TRACING INSTALLATION SHALL BE COMPLETE AND INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: STAINLESS STEEL PIPE STRAPS, END SEAL KIT, POWER CONNECTION KIT, CAUTION LABELS, ETC.
8. INSTALL ALL ITEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
9. ALL WATER SERVICE PIPING AND APPURTENANCES SHALL BE BE COVERED W/ 1/2" THICK FIBERGLASS INSULATION AND ALL SERVICE JACKET

2 B09-P-501 ELECTRIC HEAT TRACE DETAIL
NOT TO SCALE



CLEANOUT SIZES		
PIPE SIZE "A"	CAST IRON CO. SIZE "B"	CAST IRON TOP SIZE "C"
2"	2"	4-1/2"
3"	2"	5-3/4"
4"	2"	6-1/2"
6"	4"	6-1/2"
8"	4"	6-1/2"

3 B09-P-501 FLOOR CLEAN OUT DETAIL
NOT TO SCALE



4 B09-P-501 FAN COIL CONDENSATE DRAINAGE PIPING
NOT TO SCALE

NOT FOR CONSTRUCTION

TASK ORDER NO.

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

DESIGNED _____ DATE _____
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APPROVED _____ DATE _____

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
INSTALLATION DETAILS

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-P-501	125 OF 183

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PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	CHARACTERISTICS	BASIS OF DESIGN					COLOR	ELECTRICAL CHARACTERISTICS			ROUGH IN				FIXTURE UNITS			NOTES
			FIXTURE MFR	NAME AND/OR MODEL NUMBER	FAUCET OR FLUSH VALVE	CARRIER OR SUPPORT	TRIM		AMP	VOLTS	EP	CW	HW	SAN	VANT	CW	HW	SAN	
MR-1	MOP RECEPTOR	MOLDED STONE, ONE PIECE, FLAT CHROME STRAINER, NO SEAMS, 24"X36" MOP RECEPTOR	FIAT	MSB-3624	CHICAGO FAUCETS 445-PVBCP	-	5' LONG 5/8" HOSE, MOP HANGER, STAINLESS STEEL RIM GUARDS, PANELS	-	-	-	-	1/2"	1/2"	3"	1-1/2"	2-1/4"	2-1/4"	3	-
SK-1	BREAKROOM SINK	2-COMPARTMENT, STAINLESS STEEL, DROP IN, 33"X22"X10-1/8"	ELKAY	DLR332210	CHICAGO FAUCETS 434-ABCP	-	LK99 DRAIN FITTING, MCGUIRE 171 SUPPLIES & 8912 TRAP	-				1/2"	1/2"	2"	2"	1-1/2	1-1/2	2	-

ELECTRIC INSTANTANEOUS WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION	CHARACTERISTICS	BASIS OF DESIGN		DESIGN CAPACITY				ELECTRICAL CHARACTERISTICS			LOCAL DISCONNECT		STARTER		CONTROLS	NOTES
			MANUFACTURER	MODEL NUMBER	WATTS	TEMP IN	TEMP OUT	FLOW RATE (GPM)	AMPS	VAC/PH	EP	TYPE	BY	TYPE	BY		
EWH-1	DOMESTIC WATER HEATER	WALL MOUNTED, ELECTRIC INSTANTANEOUS WATER HEATER	HUBBELL	TXA	42KW	50	125	3.5	-	240	YES	CIRCUIT BREAKER	DIV 26	-	-	-	PROVIDE WALL MOUNTING KIT. PRESSURE RELIEF VALVE TO DRAIN TO MR

SUMP PUMP SCHEDULE

SYMBOL	DESCRIPTION	CHARACTERISTICS	BASIS OF DESIGN		DESIGN CAPACITY				ELECTRICAL CHARACTERISTICS					NOTES
			MANUFACTURER	MODEL NUMBER	HEAD (FT)	FLOW (GPM)	RPM	SPLIT SYSTEM	HP	VAC/PH	FLA	EP	DISCONNECT	
ESP-1	ELEVATOR SUMP PUMP	DUPLEX SUBMERSIBLE SUMP PUMP WITH OIL MINDER CONTROL PANEL	STANCOR	SV-200	40	100	3450	NONE	2	460/3	3	YES	DIV 26	PROVIDE OIL MINDER CONTROL PANEL, JUNCTION BOX, AND DISCONNECT FOR 3-PHASE APPLIATION
ESP-2	ELEVATOR SUMP PUMP	DUPLEX SUBMERSIBLE SUMP PUMP WITH OIL MINDER CONTROL PANEL	STANCOR	SV-200	40	100	3450	NONE	2	460/3	3	YES	DIV 26	PROVIDE OIL MINDER CONTROL PANEL, JUNCTION BOX, AND DISCONNECT FOR 3-PHASE APPLIATION
SP-1	SANITARY SUMP PUMP	DUPLEX SUMP PUMP	FLYGHT	NP-3069	50	50			3.8	460/3	12	YES	DIV 26	DISCONNECT FOR 3-PHASE APPLIATION
SP-2	STORM SUMP PUMP	DUPLEX SUMP PUMP	FLYGHT	NP-6020	50	450			10	460/3	14	YES	DIV 26	DISCONNECT FOR 3-PHASE APPLIATION
SP-3	STORM SUMP PUMP	DUPLEX SUMP PUMP	FLYGHT	NP-6020	50	350			10	460/3	14	YES	DIV 26	DISCONNECT FOR 3-PHASE APPLICATION

PLUMBING SPECIALTY SCHEDULE

SYMBOL	DESCRIPTION	CHARACTERISTICS	BASIS OF DESIGN		SERVICE	APPURTENANCES	NOTES
			MANUFACTURER	MODEL NUMBER			
BFP-1	REDUCED ZONE BACKFLOW PREVENTION	FDA APPROVED	WATTS	LF009	CW	BALL VALVES, AIR GAS DEVICE, STRAINER	DRAIN TO INDIRECT WASTE RECEPTOR
FD-1	FLOOR DRAIN	FLOOR DRAIN WITH ADJUSTABLE STRAINER HEAD	BLUCHER	BFD-130-R-LG-B	SAN	STAINLESS STEEL BODY, MEMBRANE CLAMP WITH STAINLESS STEEL GRATE, SEDIMENT BUCKET, LADDER GRATE, P-TRAP	FOR USE INMECHANICAL ROOMS AND OTHER UNFINISHED AREAS. TRAP PRIMER CONNECTION ON TAILPIECE
TP-1	TRAP PRIMER	ELECTRONIC TIMER CONTROLLED TRAP PRIIMER	PRECISION PLUMBING PRODUCTS	MPB-500	CW, SAN	ATMOSPHERIC VACUUM BREAKER, 24 HOUR CLOCK, SOLENOID SHUTOFF VALVES, AND DISTRIBUTION UNIT	-
RD-1	ROOF DRAIN	ROOF DRAIN WITH ADJUSTABLE EXTENSION	JAY R. SMITH	1015	SD	CAST IRON DOME	GENERAL PURPOSE ROOF DRAIN FOR USE IN PRIMARY SYSTEM
TD-1	TRENCH DRAIN	PRE-SLOPED TRENCH DRAIN WITH UV STABALIZED POLYPROPYLENE CHANNEL	WATTS	DEAD LEVEL P-SS-VP	SD	VANDAL PROOF GRATE LOCKDOWNS, STAINLESS STEEL SLOTTED GRATE	LOAD CLASS B

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TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
PLUMBING
SCHEDULES

SCALE

DRAWING NO. B09-P-601

SHEET NO. 126 OF 183

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FIRE SUPPRESSION SYSTEM PROJECT NOTES:

1. PROVIDE NEW MANUAL DRY STANDPIPE AND DRY SPRINKLER SYSTEM TO PROTECT NEW PEDESTRIAN TUNNEL AND SUPPORT AREAS WITHIN THIS SCOPE OF WORK..
2. PROVIDE ALL NECESSARY MATERIALS AND LABOR TO FURNISH AND INSTALL THE SYSTEM EXTENSION AS DESCRIBED IN THE PROJECT SPECIFICATIONS AND CONTRACT DRAWINGS.
3. ALL REFERENCE TO THE AUTHORITY HAVING JURISDICTION (AHJ) SHALL MEAN THE WMATA FIRE MARSHAL.
4. ALL REFERENCE TO THE ENGINEER SHALL MEAN KOFFEL ASSOCIATES, INC.
5. ALL REFERENCE TO THE OWNER SHALL MEAN WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY (WMATA).
6. INSTALLATION OF THE NEW PORTIONS OF STANDPIPE, DRY SPRINKLER SYSTEM AND ASSOCIATED COMPONENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

   • NFPA 13 "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS", 2019 EDITION
   • NFPA 14 "STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS", 2019 EDITION
   • NFPA 130 "STANDARD FOR FIXED GUIDEWAY TRANSIT AND PASSENGER RAIL SYSTEMS", 2020 EDITION
   • WMATA DESIGN SPECIFICATIONS
7. THE MONTGOMERY COUNTY FIRE DEPARTMENT SHALL PROVIDE THE WATER SUPPLY TO THE DRY MANUAL STANDPIPE AS CURRENTLY DESIGNED.
8. ALL WORK SHALL BE COORDINATED WITH WMATA, MONTGOMERY COUNTY CODE OFFICIALS AND THEIR DESIGNATED PROJECT MANAGERS.
9. ALL STANDPIPE AND SPRINKLER WORK SHALL BE INSPECTED BY THE AHJ AND WITNESSED BY WMATA FIRE MARSHAL OFFICE.
10. SPRINKLER TYPES SHALL BE AS DESCRIBED IN THE SPECIFICATIONS. PER NFPA 13, QUICK RESPONSE AND STANDARD RESPONSE CANNOT BE USED TOGETHER WITHIN A SINGLE FIRE COMPARTMENT. ALL SPRINKLERS WITHIN 8 FT OF THE FINISHED FLOOR SHALL BE PROVIDED PROTECTIVE CAGES.
11. NEW SPRINKLER PIPE SHALL MEET THE FOLLOWING CRITERIA:
    • PIPE SIZES 2" AND SMALLER: SCHEDULE 40, BLACK STEEL, MEETING ASTM A53 (TYPE E GRADE B) OR A795 (TYPE E GRADE A) SPECIFICATIONS, CONNECTED WITH THREADED FITTINGS.
    • PIPE SIZES 2½" AND LARGER: SCHEDULE 40, BLACK STEEL, MEETING ASTM A53 TYPE E GRADE B OR A795 TYPE E GRADE A SPECIFICATIONS, CONNECTED WITH THREADED FITTINGS OR LISTED GROOVED COUPLINGS.
    • ALL DRY PIPE PORTIONS OF THE SPRINKLER SYSTEM AND STANDPIPE SYSTEM SHALL BE SCHEDULE 40 GALVANIZED STEEL REGARDLESS OF SIZE.

    NEW PIPE FITTINGS SHALL INCLUDE:
    • THREADED FITTINGS FOR SCHEDULE 40 PIPE SHALL CONFORM TO SECTION 5.4 OF NFPA 13.
    • ROLL GROOVED FITTINGS FOR SCHEDULE 40 PIPE SHALL BE UL LISTED, COUPLINGS SHALL COMPLY WITH ASTM A536, AND A183 SPECIFICATIONS WITH GRADE E, TYPE A GASKETS. ALL COMPONENTS SHALL BE FROM A SINGLE MANUFACTURER.
    • ALL DRY PIPE PORTIONS OF THE SPRINKLER AND STANDPIPE SYSTEM SHALL BE SCHEDULE 40 GALVANIZED REGARDLESS OF SIZE.

    GROOVED FIRE SUPPRESSION PIPING AND FITTINGS SHALL BE BONDED.
12. PROVIDE LABELING OF THE STANDPIPES AND SPRINKLER PIPING PER WMATA STANDARDS WHICH INCLUDES AN ARROW FOR FLOW DIRECTION AND LABELING OF THE SHAFT THAT SERVES IT.
13. ALL HANGERS SHALL BE U.L. LISTED FOR USE WITH FIRE SPRINKLER SYSTEMS. HANGER INSTALLATION AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13. SEISMIC BRACING OF ALL PIPING AND EQUIPMENT SHALL BE PROVIDED.
14. PROVIDE AUTOMATIC AIR VENTS AS REQUIRED TO MAINTAIN AIR VENTS AT THE HIGH POINT OF EACH STANDPIPE RUN. LOCATIONS OF VENTS SHALL BE IN ACCORDANCE WITH NFPA 14 AND WMATA DESIGN CRITERIA.
15. ALL MATERIALS SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC (U.L.) FOR USE ON COMMERCIAL FIRE PROTECTION SYSTEMS.
16. ALL HANGERS SHALL BE U.L. LISTED FOR USE WITH STANDPIPE AND SPRINKLER SYSTEMS PER NFPA 13, NFPA 14, AND WMATA STANDARDS.
17. DO NOT SUPPORT PIPE FROM BOTTOM CHORD OF BAR JOISTS. SUPPORT OF STANDPIPE FROM TOP CHORD OF A BAR JOIST OR I-BEAM IS ACCEPTABLE.
18. AUXILIARY DRAINS SHALL BE PROVIDED WHERE ANY NEW PIPE CHANGE IN DIRECTION PREVENTS DRAINAGE OF THE SYSTEM.
19. THE SPRINKLER SYSTEM SHALL BE SIZED PER HYDRAULIC CALCULATIONS YIELDING A MINIMUM OF A 20% SAFETY FACTOR AS REQUIRED BY MONTGOMERY COUNTY.
20. PENETRATION OF FIRE RATED ASSEMBLIES SHALL BE SEALED WITH U.L. LISTED THROUGH-PENETRATION SYSTEM APPROPRIATE FOR THE RATING OF THE WALL PENETRATED AND MATERIALS USED. REFER TO CODE COMPLIANCE DRAWINGS FOR WALL RATINGS.
21. ALL NECESSARY CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE MADE BY AND COORDINATED WITH THE FIRE ALARM CONTRACTOR. SYSTEM ACCEPTANCE TESTS SHALL BE COORDINATED WITH THE FIRE ALARM CONTRACTOR AND WITNESSED BY THE OWNER AND/ OR AHJ.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT OF SHOP DRAWINGS, HYDRAULIC CALCULATIONS, PERMIT FEES, APPROVAL OF SHOP DRAWINGS AND ACCEPTANCE OF THE SYSTEM BY THE AHJ.
23. UPON COMPLETION OF WORK, TESTING INCLUDING HYDROSTATIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13 AND NFPA 25 REQUIREMENTS, ALL TESTING SHALL BE WITNESSED BY THE AHJ AND WMATA FIRE MARSHAL.
24. DRAIN LOCATIONS ARE NOT INDICATED ON THE DRAWINGS. CONTRACTOR SHALL PROVIDE ALL DRAINS AS REQUIRED BY NFPA 13 AND WMATA. DRAINS SHALL BE PIPED TO THE EXTERIOR OR THE SUMP PUMP PIT. CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS AT ALL SYSTEM LOW POINTS AND AT ALL TRAPPED PIPING.
25. CONTRACTOR SHALL FIELD-COORDINATE WITH OTHER TRADES AND PROVIDE SPRINKLERS UNDER ALL OBSTRUCTIONS AND OVERHANGS AS REQUIRED BY NFPA 13, INCLUDING UNDER DUCTS.
26. PROVIDE A WALL MOUNTED SPARE SPRINKLER CABINET ON THE WALL NEXT TO THE INCOMING SPRINKLER WATER RISER ALONG WITH ALL THE REQUIRED SPARE SPRINKLERS AND SPRINKLER TOOLS.
27. ALL STANDPIPE HOSE VALVES SHALL BE PROVIDED WITH WMATA APPROVED FIRE EQUIPMENT CABINETS.

FIRE SUPPRESSION SYSTEM SYMBOLS

- NEW SYSTEM PIPING (XX DENOTES SYSTEM TYPE)
- EXISTING PIPING TO REMAIN
- DEMO EXISTING PIPING
- POINT OF CONNECTION
- MECHANICAL COUPLING
- PIPE HANGER
- LATERAL BRACE; TWO WAY
- LATERAL BRACE; FOUR WAY
- SYSTEM RISER
- HOSE VALVE
- HOSE REEL STATION
- AGENT STORAGE CONTAINER (XX DENOTES SYSTEM TYPE)
- PIPE ELBOW DOWN
- PIPE ELBOW UP
- PIPE TEE DOWN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- FLUSHING CONNECTION OR CAP
- CONTROL VALVE
- ANGLE VALVE
- CHECK VALVE
- OS&Y GATE VALVE
- BUTTERFLY VALVE
- NON-INDICATING CONTROL VALVE
- BACKFLOW PREVENTER; DOUBLE CHECK TYPE
- BACKFLOW PREVENTER; REDUCED PRESSURE ZONE TYPE
- POST-INDICATING VALVE
- ZONE CONTROL ASSEMBLY
- PRESSURE REGULATING VALVE
- PRESSURE RELIEF VALVE
- PRESSURE GAUGE
- ALARM CHECK VALVE
- DRY PIPE VALVE
- DRY PIPE VALVE WITH QUICK OPENING DEVICE
- DELUGE VALVE
- PRE-ACTION VALVE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- FIRE DEPARTMENT CONNECTION; FREE STANDING
- DRY SIDEWALL SPRINKLER
- SIDEWALL SPRINKLER
- UPRIGHT SPRINKLER
- DRY-TYPE PENDENT SPRINKLER
- PENDENT SPRINKLER; ON DROP NIPPLE
- SPRINKLER GUARD; SHOWN ON UPRIGHT SPRINKLER
- OPEN SPRINKLER/DISCHARGE NOZZLE
- WATER SPRAY NOZZLE
- WINDOW SPRINKLER
- HYDRAULIC REFERENCE NODE
- HEIGHT INDICATOR
- NON-SPRINKLERED AREA
- FULLY SPRINKLERED AREA
- PARTIALLY SPRINKLERED AREA
- AREA NOT IN CONTRACT
- CALCULATED REMOTE AREA
- SPRINKLER ZONE BOUNDARY

FIRE SUPPRESSION ABBREVIATIONS

ABD	AUTOMATIC BALL DRIP
ACT	ACOUSTICAL CEILING TILE
AFF	ABOVE FINISHED FLOOR
AS	AUTOMATIC SPRINKLER
ATR	ALL THREAD ROD
BFP	BACKFLOW PREVENTER
BOB	BOTTOM OF BEAM
CB	CONCRETE BEAM
COL	COLUMN
CONC	CONCRETE
DI	DUCTILE IRON
DN	DOWN
DP	DRY PENDENT (SPRINKLER)
DS	DRY SIDEWALL (SPRINKLER)
EC	EXTENDED COVERAGE (SPRINKLER)
EXP	EXPOSED (NO CEILING)
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FS	FLOW SWITCH
GALV	GALVANIZED
GYP	GYPSUM WALL BOARD (SHEETROCK)
HT	HIGH TEMPERATURE (SPRINKLER)
ITC	INSPECTORS TEST CONNECTION
MAX	MAXIMUM
MIN	MINIMUM
MT	METAL TILE
NIC	NOT IN CONTRACT
NS	NON-SPRINKLERED
NTS	NOT TO SCALE
OSJ	OPEN STEEL JOIST
PL	PLASTER (CEILING)
POC	POINT OF CONNECTION
PRV	PRESSURE RELIEF VALVE
QR	QUICK RESPONSE (SPRINKLER)
SCH	SCHEDULE
SPL	HIDDEN SPLINE (CEILING)
STL	STEEL
TYP	TYPICAL
TS	TAMPER SWITCH
UNO	UNLESS NOTED OTHERWISE

HAZARD CLASSIFICATIONS

- FM HAZARD AS NOTED IN BOD
- HC-2 — FM HAZARD CLASSIFICATION 2
- HC-3 — FM HAZARD CLASSIFICATION 3

WMATA COORDINATION NOTE:

WMATA HAS PROVIDED A REQUEST FOR THE NEW DRY STANDPIPE SYSTEM TO BE TIED INTO THE EXISTING TUNNEL DRY STANDPIPE SYSTEM. THE ORIGINAL DESIGN INTENT WAS TO ADD AN INDEPENDENT DRY STANDPIPE SYSTEM TO SERVE THE NEW PEDESTRIAN TUNNEL, WHICH IS SEPARATED FROM THE EXISTING STATION BY A 2-HR FIRE RATED SEPARATION. THIS IS WHAT IS SHOWN WITHIN THIS DRAWING SET.

CURRENTLY THERE ARE TWO SEPARATE STANDPIPE SYSTEMS WITHIN THE STATION: (1) A MANUAL DRY SYSTEM FOR EMERGENCY/ VENT SHAFT AND TUNNELS; (2) A MANUAL WET SYSTEM WITHIN STATION.

IT IS TYPICAL FOR AHJ'S TO ALLOW SEPARATE STANDPIPE SYSTEMS AND ASSOCIATED FDC'S AS LONG AS CLEAR LABELING IS PROVIDED. KEEPING THE NEW DRY MANUAL STANDPIPE WITHIN THE NEW CONSTRUCTION ZONE HELPS TO REDUCE COST AND TIME IN EXPANDING THE SYSTEM INTO THE EXISTING STATION TO CONNECT TO THE EXISTING WET PIPE SYSTEM.

WMATA'S PREFERENCE IS TO INTERCONNECT THE NEW STANDPIPE PROTECTING THE PEDESTRIAN PASSAGEWAY WITH THE EXISTING WET STANDPIPE PROTECTING THE FOREST GLEN STATION. THE NEW DRY STANDPIPE SYSTEM WOULD BE REQUIRED TO BE REVISED TO A WET STANDPIPE AND FREEZE PROTECTION MEASURES MUST BE IMPLEMENTED. WMATA'S PREFERRED METHOD OF FREEZE PROTECTION IS TO ENCLOSE THE PIPES WITHIN A CONDITIONED SPACE (PIPE CHASE). FINAL FIRE PROTECTION DESIGN AND REQUIREMENTS ARE BEING COORDINATED WITH MCDOT AND WMATA. THE DESIGN TEAM SHALL AWAIT FUTURE COMMENTS AND RFI TO DETERMINE IF THIS EXPANDED SCOPE IS NECESSARY PER MCDOT.

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REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE SUPPRESSION
GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

SCALE	DRAWING NO.	SHEET NO.
12" = 1'-0"	B09-FS-001	127 OF 183

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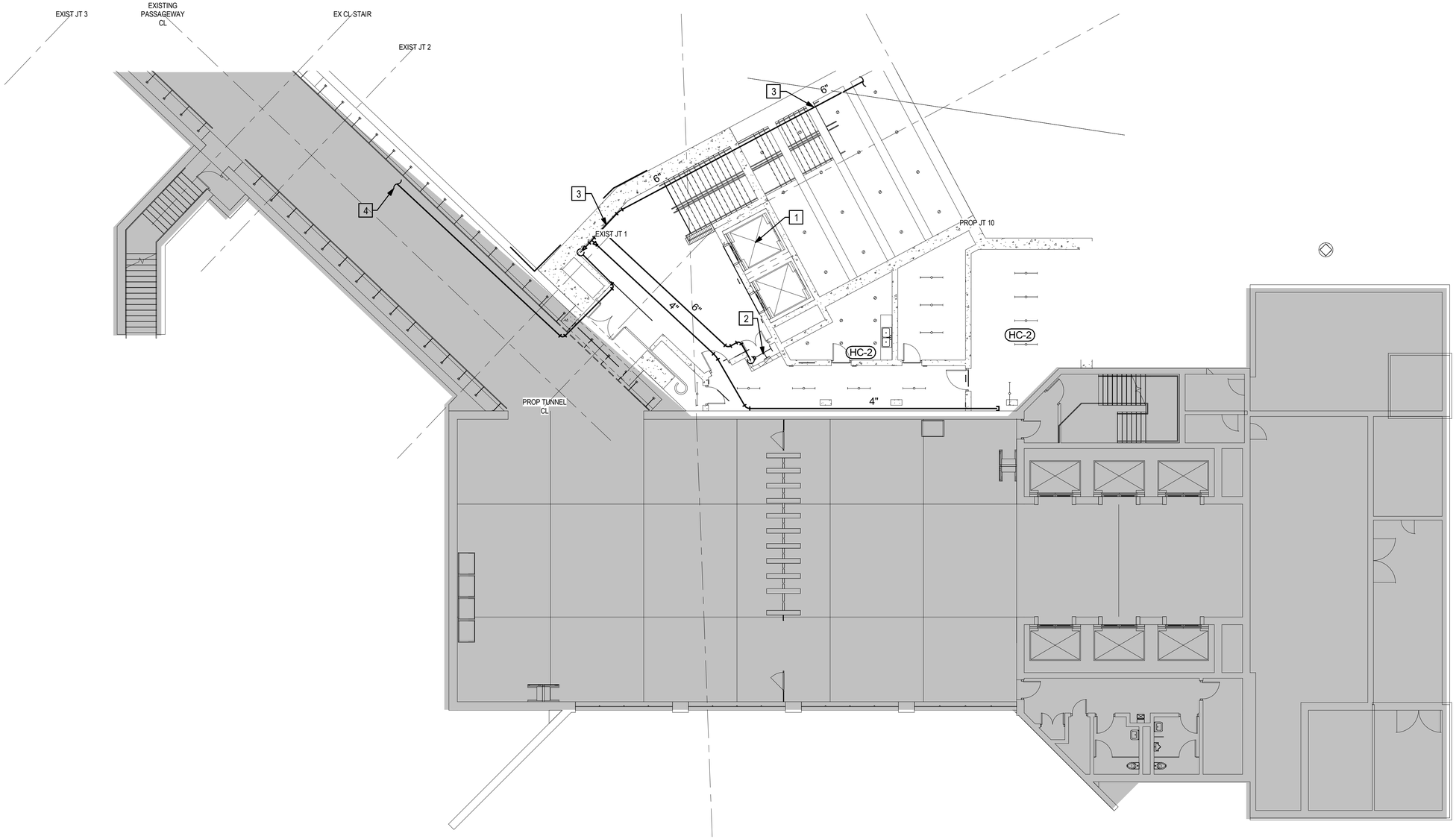

1 FLOOR PLAN - NEW TUNNEL WEST AT MEZZANINE LEVEL
B09-FS-101 1" = 10'-0"

GENERAL NOTES:

1. COORDINATE ROUTING OF SPRINKLER PIPE WITH ALL OTHER TRADES AND EXISTING BUILDING CONDITIONS.
2. DESIGN THE NEW PORTION OF THE SPRINKLER SYSTEM USING HYDRAULIC CALCULATIONS.
3. PIPING IS SHOWN FOR SUGGESTIVE AND ILLUSTRATIVE PURPOSES ONLY AND SHALL BE VERIFIED BY INSTALLING CONTRACTOR. NOT ALL SPRINKLERS AND PIPING ARE SHOWN ON THIS DRAWING.
4. PROVIDE SPRINKLER PROTECTION UNDER ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. OBSTRUCTIONS INCLUDE PLATFORMS, MECHANICAL DUCTWORK, ETC.
5. DRY PIPE SPRINKLER SYSTEMS SHALL BE UTILIZED THROUGHOUT ALL PORTIONS OF TUNNEL WITHIN THIS SCOPE OF WORK SUBJECT TO TEMPERATURES BELOW 40 F.
6. THIS ENTIRE SCOPE OF WORK SHALL BE PROVIDED A SUPPRESSION SYSTEM.

KEY NOTES:

1. PROVIDE SPRINKLER PROTECTION WITHIN ELEVATOR PIT AND SHAFT AS REQUIRED BY NFPA 13.
2. HOSE VALVE CABINET HOUSING DRY MANUAL STANDPIPE HOSE VALVE.
3. 6 " MANUAL DRY STANDPIPE MAIN STACKED TO RUN ABOVE 4" DRY SPRINKLER MAIN. MANUAL DRY STANDPIPE IS A SEPARATE SYSTEM THAN THE DRY PIPE SPRINKLER SYSTEM.
4. FDC CONNECTION FOR 6" MANUAL DRY STANDPIPE SYSTEM. FINAL LOCATION TO BE APPROVED BY FIRE MARSHAL.

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NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE SUPPRESSION
FLOOR PLAN - NEW TUNNEL WEST AT MEZZANINE LEVEL

SCALE	DRAWING NO.	SHEET NO.
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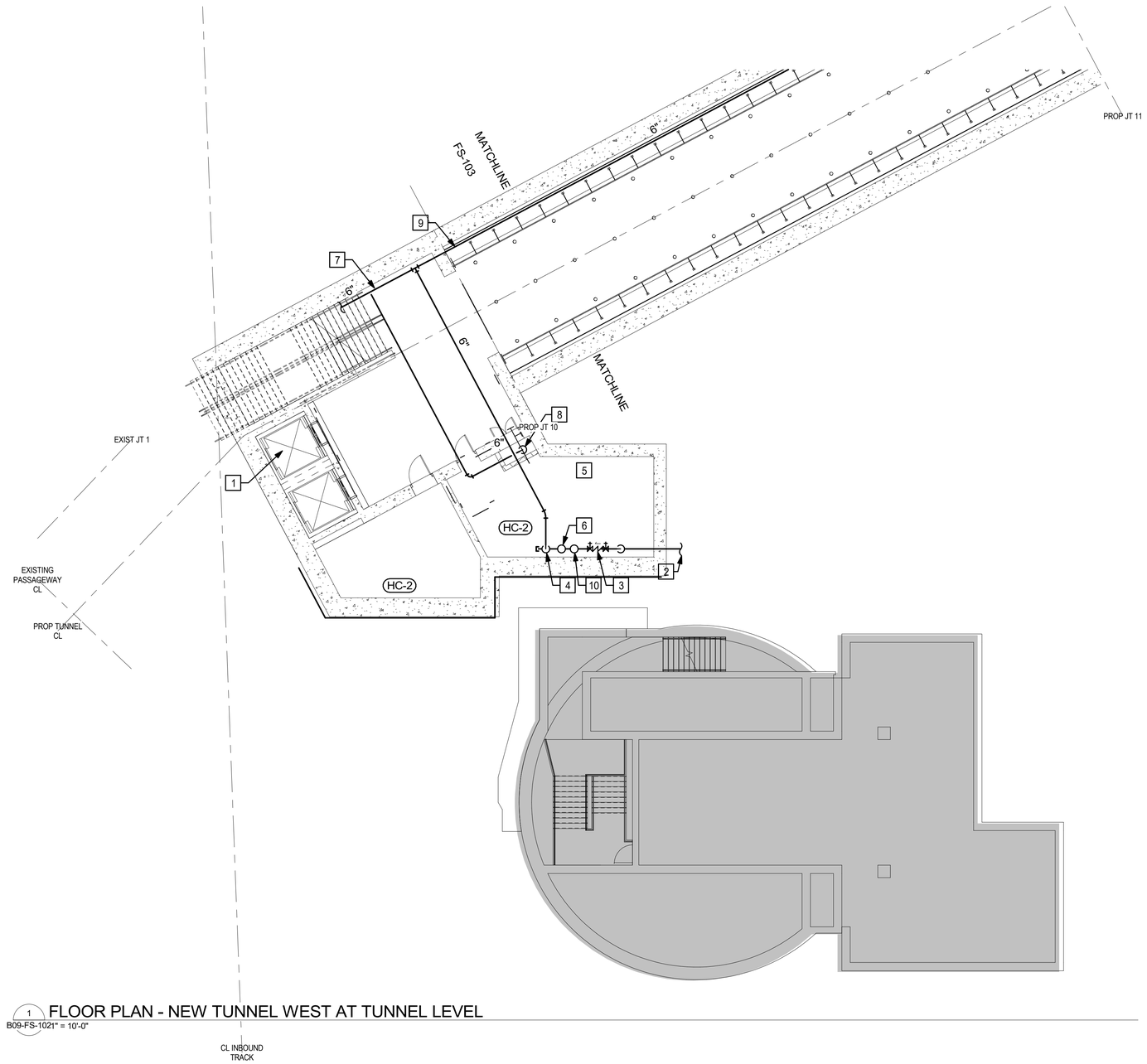

1 FLOOR PLAN - NEW TUNNEL WEST AT TUNNEL LEVEL
B09-FS-1021" = 10'-0"

GENERAL NOTES:

1. COORDINATE ROUTING OF SPRINKLER PIPE WITH ALL OTHER TRADES AND EXISTING BUILDING CONDITIONS.
2. DESIGN THE NEW PORTION OF THE SPRINKLER SYSTEM USING HYDRAULIC CALCULATIONS.
3. PIPING IS SHOWN FOR SUGGESTIVE AND ILLUSTRATIVE PURPOSES ONLY AND SHALL BE VERIFIED BY INSTALLING CONTRACTOR. NOT ALL SPRINKLERS AND PIPING ARE SHOWN ON THIS DRAWING.
4. PROVIDE SPRINKLER PROTECTION UNDER ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. OBSTRUCTIONS INCLUDE PLATFORMS, MECHANICAL DUCTWORK, ETC.
5. DRY PIPE SPRINKLER SYSTEMS SHALL BE UTILIZED THROUGHOUT ALL PORTIONS OF TUNNEL WITHIN THIS SCOPE OF WORK SUBJECT TO TEMPERATURES BELOW 40 F.
6. THIS ENTIRE SCOPE OF WORK SHALL BE PROVIDED A SUPPRESSION SYSTEM.

KEY NOTES:

1. PROVIDE SPRINKLER PROTECTION WITHIN ELEVATOR PIT AND SHAFT AS REQUIRED BY NFPA 13.
2. INCOMING 6 INCH FIRE LINE.
3. 6 INCH BACKFLOW PREVENTER
4. DRY PIPE VALVE WITH RISER MOUNTED COMPRESSOR
5. INCOMING WATER SUPPLY ROOM TO BE PROVIDED HEAT AND DRAIN.
6. RISER TO SERVE WET PIPE SPRINKLERS WITHIN HEATED ROOM.
7. PIPING RUN CONCEALED ABOVE DROP CEILING THROUGHOUT TUNNEL
8. HOSE VALVE CABINET HOUSING DRY MANUAL STANDPIPE HOSE VALVE.
9. 6 " MANUAL DRY STANDPIPE MAIN STACKED TO RUN ABOVE 4" DRY SPRINKLER MAIN. MANUAL DRY STANDPIPE IS A SEPARATE SYSTEM THAN THE DRY PIPE SPRINKLER SYSTEM.
10. FDC RISER WITH CHECK VALVE TO FDC CONNECTION. LOCATION TO BE COORDINATED WITH FIRE MARSHAL.

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REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE SUPPRESSION
FLOOR PLAN - NEW TUNNEL WEST AT TUNNEL LEVEL

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-FS-102	129 OF 183

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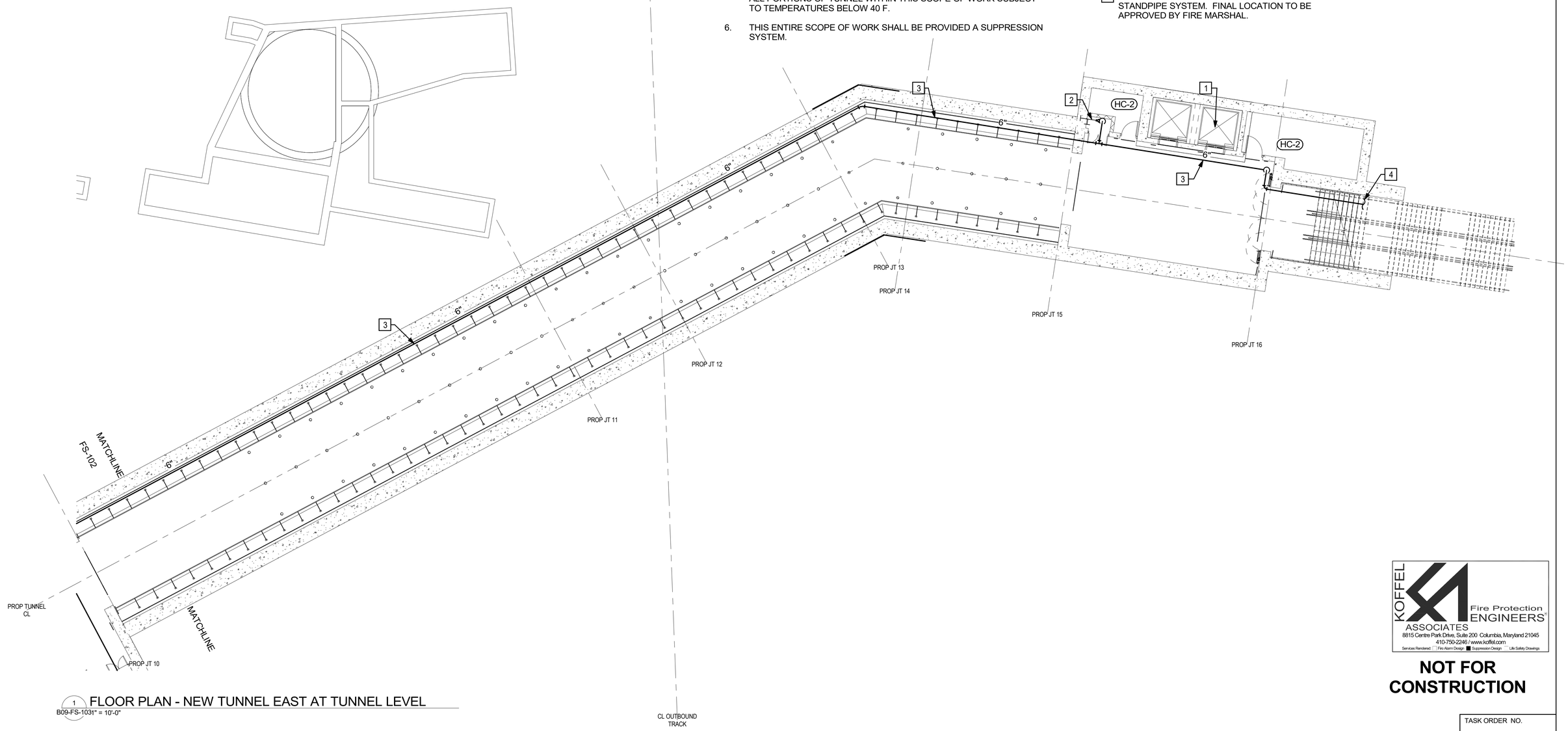
GENERAL NOTES:

1. COORDINATE ROUTING OF SPRINKLER PIPE WITH ALL OTHER TRADES AND EXISTING BUILDING CONDITIONS.
2. DESIGN THE NEW PORTION OF THE SPRINKLER SYSTEM USING HYDRAULIC CALCULATIONS.
3. PIPING IS SHOWN FOR SUGGESTIVE AND ILLUSTRATIVE PURPOSES ONLY AND SHALL BE VERIFIED BY INSTALLING CONTRACTOR. NOT ALL SPRINKLERS AND PIPING ARE SHOWN ON THIS DRAWING.
4. PROVIDE SPRINKLER PROTECTION UNDER ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13 REQUIREMENTS. OBSTRUCTIONS INCLUDE PLATFORMS, MECHANICAL DUCTWORK, ETC.
5. DRY PIPE SPRINKLER SYSTEMS SHALL BE UTILIZED THROUGHOUT ALL PORTIONS OF TUNNEL WITHIN THIS SCOPE OF WORK SUBJECT TO TEMPERATURES BELOW 40 F.
6. THIS ENTIRE SCOPE OF WORK SHALL BE PROVIDED A SUPPRESSION SYSTEM.

KEY NOTES:

1. PROVIDE SPRINKLER PROTECTION WITHIN ELEVATOR PIT AND SHAFT AS REQUIRED BY NFPA 13.
2. STAINLESS STEEL HOSE VALVE CABINET HOUSING DRY MANUAL STANDPIPE HOSE VALVE SHALL BE PROVIDED KEYED TO WMATA KEY SYSTEM.
3. 6 " MANUAL DRY STANDPIPE MAIN STACKED TO RUN ABOVE 4" DRY SPRINKLER MAIN. MANUAL DRY STANDPIPE IS A SEPARATE SYSTEM THAN THE DRY PIPE SPRINKLER SYSTEM.
4. FDC CONNECTION FOR 6" MANUAL DRY STANDPIPE SYSTEM. FINAL LOCATION TO BE APPROVED BY FIRE MARSHAL.



1 FLOOR PLAN - NEW TUNNEL EAST AT TUNNEL LEVEL
B09-FS-103 1" = 10'-0"

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OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE SUPPRESSION
FLOOR PLAN - NEW TUNNEL EAST AT TUNNEL LEVEL

SCALE	DRAWING NO.	SHEET NO.
As indicated	B09-FS-103	130 OF 183

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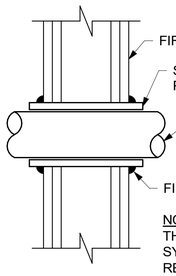
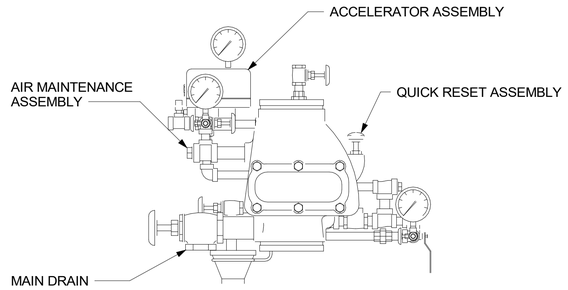


NOTE: PROVIDE U.L. LISTED THROUGH-PENETRATION FIRESTOP SYSTEM AT ALL RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.

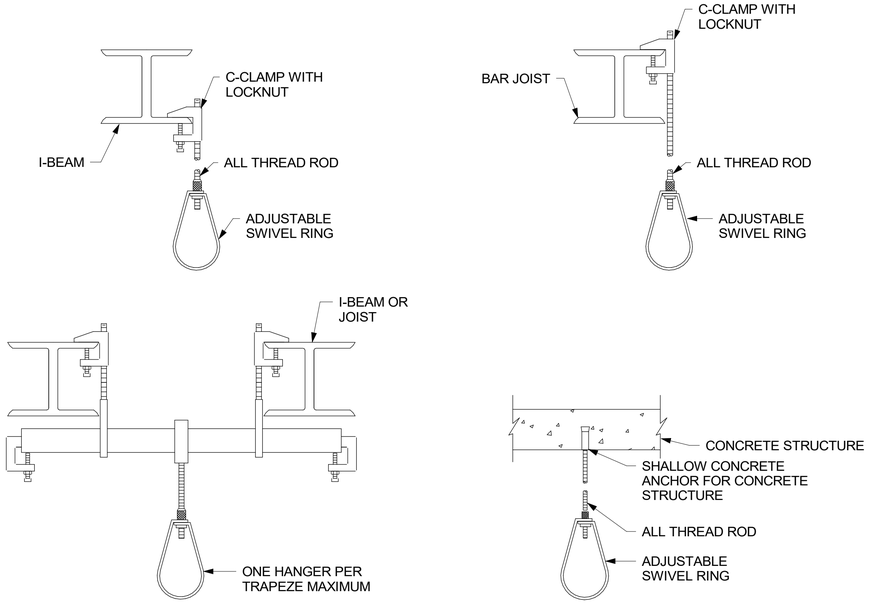
THROUGH PENETRANT: ONE PIPE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

FILL MATERIAL: SEALANT - FILL MATERIAL (NOT SHOWN) APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. BEAD OF FILL MATERIAL SHALL ALSO BE APPLIED AT THE PIPE/WALL INTERFACE.

1 FS501 THROUGH WALL PENETRATION DETAIL
NTS



2 FS501 DRY PIPE VALVE DETAIL
12" = 1'-0"



3 FS501 TYPICAL HANGER PLACEMENT DETAIL
NTS

HANGER NOTES

1. MAXIMUM UNSUPPORTED ARMOVER LENGTH SHALL NOT BE GREATER THAN 24". WHERE SYSTEM PRESSURES EXCEED 100 PSI, MAXIMUM UNSUPPORTED LENGTH SHALL NOT EXCEED 12".
2. MIN 3/8" ALL THREAD ROD FOR PIPE DIAMETERS 4" AND SMALLER.
3. DO NOT SUPPORT SPRINKLER PIPE FROM BOTTOM CHORDS OF BAR JOISTS OR FROM ROOF DECKING.
4. WHERE TRAPEZE HANGERS ARE USED, THEY SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13: 9.1.1.7.

	MAX. DISTANCE BETWEEN HANGERS			
DIAMETER	1"	12'-0"	2"	15'-0"
	1 1/4"	12'-0"	2 1/2"	15'-0"
	1 1/2"	15'-0"	≥ 3"	15'-0"

KOFFEL ASSOCIATES Fire Protection ENGINEERS
8815 Centre Park Drive, Suite 200 Columbia, Maryland 21045
410-750-2246 / www.koffel.com
Services Rendered: Fire Alarm Design, Suppression Design, Life Safety Drawings

NOT FOR CONSTRUCTION

TASK ORDER NO.

	REFERENCE DRAWINGS		REVISIONS		
	NUMBER	TITLE	DATE	NUM	DESCRIPTION

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE SUPPRESSION
FIRE SUPPRESSION DETAILS

SCALE	DRAWING NO.	SHEET NO.
12" = 1'-0"	B09-FS-501	131 OF 183

BIM 360://Forest Glen/183091_Forest Glen Station_Electrical.rvt

ELECTRICAL SYMBOLS LIST

CONDUIT TURNED UP

CONDUIT TURNED DOWN

PANELBOARD 480V OR 208V
SEE PANELBOARD SCHEDULE
FOR RATING

MOTOR

MOTORIZED FIRE/SMOKE DAMPER

TRANSFORMER, RATING AS INDICATED

FUSED SWITCH
100AF - INDICATES FUSE SIZE
100AS- INDICATES SWITCH RATING

LOW VOLTAGE, DRAW OUT CIRCUIT BREAKER
100AT - INDICATES TRIP SIZE
100AF - INDICATES FRAME SIZE

LOW VOLTAGE, CIRCUIT BREAKER
100AT - INDICATES TRIP SIZE
100AF - INDICATES FRAME SIZE

AUTOMATIC TRANSFER SWITCH

MOTOR CONTROLLER

COMBINATION MOTOR STARTER

FUSED DISCONNECT SWITCH
COORDINATE FUSE RATING WITH EQUIPMENT BEING SERVED.

SURGE PROTECTION DEVICE

LED FIXTURE TYPE "M" OR "A3"

LED FIXTURE TYPE "M" OR "A3" CONNECTED TO
"E" INDICATES FIXTURE CONNECTED TO EMERGENCY CKT

LED FIXTURE TYPE "I" OR "A"

LED FIXTURE TYPE "I" OR "A"
"E" INDICATES FIXTURE CONNECTED TO EMERGENCY CKT

2 ADJUSTABLE HEADS WALL
MOUNTED EMERGENCY LIGHTING
UNIT, 7'-6" AFF, UNO

ADJUSTABLE REMOTE HEAD OF
EMERGENCY LIGHTING UNIT,
7'-6" AFF, UNO

EXTERIOR WALL MOUNTED LED LIGHT FIXTURE
"Q" OR "R" FIXTURE TYPE

WALL MOUNTED FIXTURE
E INDICATES CONNECTED TO EMERGENCY CIRCUIT

EQUIPMENT OR MOTOR CONNECTED,
NUMBER INDICATES CONNECTION NUMBER

5/8" DIAMETER x 10' LONG COPPER CLAD STEEL GROUND ROD

#4/0 BARE COPPER GROUND
(DASH LINE DENOTES UNDERGROUND)

EXOTHERMIC WELD CONNECTION

PHASE

LIGHTING CONTROL SWITCH, SINGLE POLE, SINGLE THROW, 20 AMPERE, 277 V, MTD +42" AFF (CENTER OF SWITCH)

LIGHTING CONTROL SWITCH, 3 WAY, 20 AMPERE 277V

LIGHTING CONTROL SWITCH, 4 WAY, 20 AMPERE 277V

LOW VOLTAGE LIGHTING CONTROL SWITCH,
"a" DENOTES FIXTURE BEING CONTROLLED BY
SWITCH "a" IF INDICATED

LOW VOLTAGE LIGHTING DIMMING SWITCH

SINGLE POLE MOTOR SWITCH WITH
THERMAL OVERLOAD PROTECTION

EXIT LIGHT, SIDE, BACK OR TOP MOUNTED
AS SHOWN ON PLANS, LIGHTING FIXTURE
SCHEDULE, AND AS REQUIRED.

GROUNDING BUSBAR

GROUND CONNECTION

CONDUIT DESIGNATION, "P" DENOTES
POWER; "1" DENOTES CONDUIT NUMBER

DUAL-TECH OCCUPANCY SENSOR, SMALL MOTION (CEILING MOUNTED)

OCCUPANCY SENSOR, LARGE MOTION (CEILING MOUNTED)

PHOTOCELL FOR LIGHTING CONTROL

DENOTES WEATHERPROOF

MONITOR

JUNCTION BOX - FLOOR

JUNCTION BOX - CEILING / WALL

NOT IN CONTRACT, EQUIPMENT FOR REFERENCE ONLY. EQUIPMENT AND INSTALLATION BY OTHERS.

PULL BOX, NEMA 4X OUTDOORS, NEMA 12 INDOORS U.O.N.

ENCLOSED CIRCUIT BREAKER

EQUIPMENT OR MOTOR CONNECTED, ### INDICATES CONNECTION NUMBER

TEST SWITCH

POTENTIAL TRANSFORMER, X - DENOTES NUMBER OF PTS

CURRENT TRANSFORMER, X - DENOTES NUMBER OF CTS

DRAWOUT FUSE, NUMBER SUBSCRIPT INDICATES QUANTITY

GROUND FAULT PROTECTION

CODED NOTE

120V VAC DUPLEX RECEPTACLE. WP DENOTES WEATHERPROOF.
120 VAC, 20A. MOUNT 18" AFF IN OFFICE/FINISHED AREAS,
ELECT/MECH ROOMS, OTHER AREAS, (CENTER OF RECEPTACLE)
NUMBER SUBSCRIPTS DENOTES CIRCUIT NUMBER WHERE INDICATED.

DUPLEX RECEPTACLE WITH
GROUND FAULT INTERRUPTER

ELECTRIC WATER COOLER OUTLET 18" AFF, 20A, 125V
COORDINATE OUTLET MOUNTING HT WITH EQUIPMENT.
RECEPTACLE SHALL BE ACCESSIBLE.

SINGLE OUTLET, RATING AS SHOWN

120 V, DUPLEX RECEPTACLE

120 V, TWO NEMA L5-20R RECEPTACLE ON EACH RACK
MOUNT ON CABLE TRAY OVER THE RACK.

WORK SPACE/CLEARANCE

WYE-GROUNDED

DELTA

DETAIL FOR PLANS

SECTION CUT

NOT FOR CONSTRUCTION

10/08/2024

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER
CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
ELECTRICAL SYMBOLS

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-001	132 OF 183

BIM 360://Forest Glen/183091_Forest Glen Station_Electrical.rvt

1. ALL MATERIALS PROVIDED SHALL BE NEW AND CONFORM TO CONTRACT SPECIFICATIONS, DRAWINGS AND ALL THE APPLICABLE CODES.

2. ALL WORK SHALL COMPLY WITH NATIONAL ELECTRICAL CODE, NFPA 70 2020, REQUIREMENTS OF ALL LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.

3. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED. IN AS MUCH AS THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND BECAUSE OF THE SMALL SCALE OF THE DRAWINGS IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED. FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS SHALL BE AT NO ADDITIONAL COST.

4. CONTRACTOR SHALL FIELD COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH MECHANICAL WORK AND AVOID INTERFERENCES WITH ALL OTHER WORK.

5. PROVIDE A NYLON OR POLYESTER PULL STRING IN ALL EMPTY CONDUITS.

6. CONNECT INDIVIDUAL SINGLE-PHASE LOADS SUPPLIED BY SINGLE PHASE, FOUR-WIRE CIRCUITS ON ALTERNATING PHASES.

7. CONDUIT ROUTING SHOWN ON DWGS IS DIAGRAMMATICAL ONLY AND SHALL BE COORDINATED WITH OTHER TRADES.

8. PROVIDE AND SIZE ALL PULL BOXES TO MEET CODE AND SHOW SIZE OF PULL BOXES ON AS BUILT DWGS.

9. CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF ALL THE EQUIPMENTS BEING SUPPLIED ON THE PROJECT FOR ELECTRICAL/SYSTEM CONNECTION WITH ALL THE OTHER TRADES.

10. PROVIDE HOUSE KEEPING PAD 4 INCH HIGH CONCRETE FOR FLOOR MOUNTED TRANSFORMERS, EXTEND PAD 4" ALL AROUND. CHAMFER THE EDGE OF THE PADS.

11. PROVIDE FIRE STOPPING AT ALL CONDUIT WALL / FLOOR PENETRATIONS COMPATIBLE WITH THE FIRE RATING OF FLOOR / WALL.

12. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT, EXCEPT MOTOR CIRCUITS AND TRANSFORMER PRIMARIES.

13. INSTALL ALL THE RECEPTACLES 18" AFF (CENTER OF RECEPTACLE 18" AFF) UON.

14. ALL CONDUITS SERVING EXTERIOR WALL MTD FIXTURES SHALL BE INSTALLED INSIDE THE BUILDING. IN FINISHED AREAS INSTALL CONDUITS FROM VIEW. NO SURFACE MOUNTED CONDUITS ON THE EXTERIOR WALLS.

15. ALL THE NUMBER OF WIRES ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE TO PROVIDE NUMBER OF WIRES AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM. MINIMUM WIRE SIZE #12, MINIMUM CONDUIT SIZE 3/4".

16. ALL THE ELECTRICAL LIGHTING FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, AND SHALL BE INDEPENDENT OF DUCTS, PIPES, CEILINGS AND THEIR SUPPORTING MEMBERS.

17. ELEC. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL ELECTRICAL DISCONNECT DEVICES, PANELBOARDS, MOTOR STARTERS, TRANSFORMERS TO PROVIDE CLEAR ACCESS TO THESE ITEMS PER CODE REQUIREMENTS AND NOT BE BLOCKED BY LOCATION OF ANY FIXED EQUIPMENT.

18. DISCONNECTS SHALL NOT BE USED AS JUNCTION BOX PER NEC.

19. ELEVATOR MAIN POWER ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP SHALL BE CAPABLE OF PAD LOCKING IN OPEN POSITION.

A, AMP	AMPERE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
AF	AMPS FRAME
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AT	AMPS TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BKR	BREAKER
BKT	BRACKET
BLDG	BUILDING
BSMT	BASEMENT
C , CND	CONDUIT
CB	CIRCUIT BREAKER
CD	CANDELA
C.I.P.	CAST IN PLACE
CIRC.	CIRCULATING
CKT	CIRCUIT #
CLG	CEILING
CNTL	CONTROL
COL.	COLUMN
COMM.	COMMUNICATION
COMPR.	COMPRESSOR
COND	CONDUCTOR
CONT	CONTINUED, CONTINUATION
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC/DS	DISCONNECT SWITCH
DN	DOWN
DPM	DIGITAL POWER METER
DWG	DRAWING
EC	EMPTY CONDUIT
ECB	ENCLOSED CB
ELEC	ELECTRICAL
ELEV	ELEVATOR
EM	EMERGENCY
EQUIP	EQUIPMENT
ESS	ESSENTIAL
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FLUOR.	FLUORESCENT
FT	FOOT
FRE	FIBERGLASS REINFORCED EPOXY
FUT	FUTURE
FVNR	FULL VOLTAGE NON REVERSIBLE
GALV.	GALVANIZED
GFI/GFCI	GROUND FAULT CIRCUIT INTRRUPTER
GRD, GND, G	GROUND
GRS, GSC, GRSC	GALVANIZED RIGID STEEL CONDUIT
HP	HORSEPOWER
HT, H	HEIGHT
HTG	HEATING
HTR	HEATER
IU	INDOOR UNIT
JB	JUNCTION BOX
KAIC	KILO AMPERE INTERRUPTING CAPACITY
KVA	KILOVOLT AMPERES
L	LENGTH
LED	LIGHT EMITTING DIODE
LTFC	LIQUID TIGHT FLEXIBLE CONDUIT
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE
M.C.A.	MINIMUM CIRCUIT AMPACITY
MACH	MACHINE
MAINT	MAINTENANCE
MAX	MAXIMUM
MC	MULTI-CONDUCTOR CABLE
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MIN	MINIMUM
MLO	MAIN LUG ONLY
MPR	MULTI PURPOSE PROTECTION RELAY
MTD	MOUNTED
MTG	MOUNTING
MV	MEDIUM VOLTAGE
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
#, NO.	NUMBER
O.C.	ON CENTER
O/H	OVERHEAD DOOR
OU	OUTDOOR UNIT
∅/PH	PHASE
PB	PUSHBUTTON
PNL	PANEL, PANELBOARD
PQM	POWER QUALITY METER
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PW, PWR	POWER
R	RADUIS
REC, RECEPT	RECEPTACLE
REF	REFERENCE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
S, SW	SWITCH
SEC	SECONDARY
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SN	SOLID NEUTRAL EMERG.
SPEC	SPECIFICATION
STD	STANDARD
STL	STEEL
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TCOMM1	TRANSFORMER COMM1
TELE, TEL	TELEPHONE
THRU	THROUGH
TP1A	TRANSFORMER P1A
TS	TEST SWITCH
TYP	TYPICAL
UFD	UNDER FLOOR DUCTS
UL	UNDERWRITERS LABORATORIES
UON/UNO	UNLESS OTHERWISE NOTED , UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SYSTEM
V	VOLT
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
WP	WEATHER-PROOF
WS	WORKSPACE
XFMR/T	TRANSFORMER

* ALL ABBREVIATIONS MAY NOT BE USED.

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10/08/2024

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REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
ELECTRICAL GENERAL NOTES AND ABBREVIATIONS

SCALE	DRAWING NO.	SHEET NO.
1" = 1'-0"	E-002	133 OF 183

Autodesk Docs://Forest Glen (B399)_Forest Glen Station_Electrical 2024.rvt

1 E-101 NEW TUNNEL WEST LIGHTING PLAN
1/4" = 1'-0"

NOTES:

1. WIRE SIZE FOR LIGHTING IS MINIMUM #10 + #10G IN 3/4"C.
2. ALL THE INSTALLATION IN ELECTRICAL ROOM SHALL MEET NEC 110.26.(E). COORDINATE WITH MECH/OTHER TRADES.
3. REFER SHEET E-406 FOR LIGHT FIXTURE SCHEDULE.

N

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0' 8' 16'

10/08/2024

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

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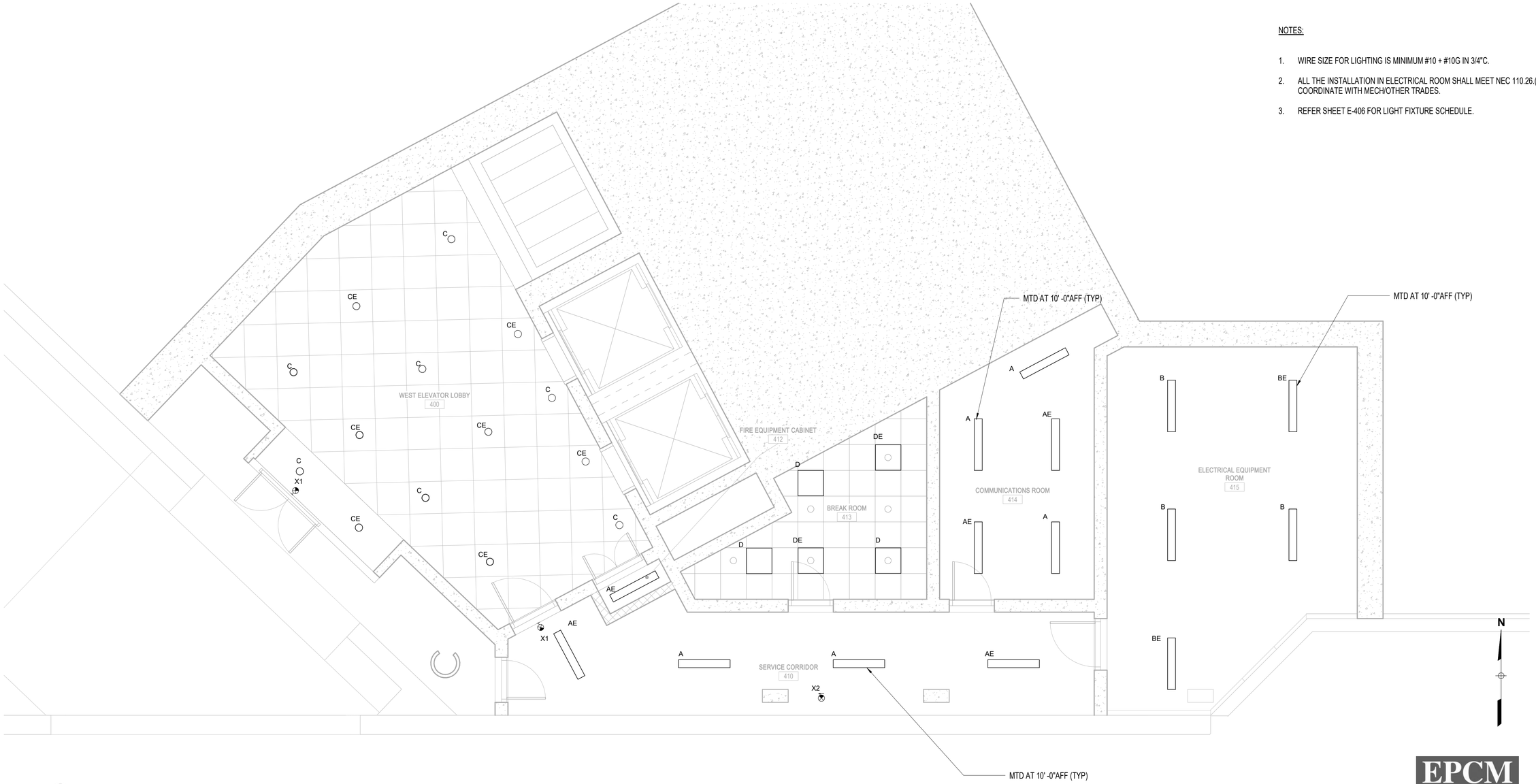
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
NEW TUNNEL WEST @ TUNNEL LEVEL LIGHTING PLAN

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	E-101	134 OF 183

Autodesk Docs://Forest Glen/19399_Forest Glen Station_Electrical 2024.rvt



1 E-102 MEZZANINE WEST LIGHTING PLAN
1/4" = 1'-0"

NOTES:

1. WIRE SIZE FOR LIGHTING IS MINIMUM #10 + #10G IN 3/4"C.
2. ALL THE INSTALLATION IN ELECTRICAL ROOM SHALL MEET NEC 110.26.(E). COORDINATE WITH MECH/OTHER TRADES.
3. REFER SHEET E-406 FOR LIGHT FIXTURE SCHEDULE.

EPCM INC

NOT FOR CONSTRUCTION

0' 8' 16'

10/08/2024

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
NEW TUNNEL WEST @ MEZZANINE LIGHTING PLAN

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	E-102	135 OF 183

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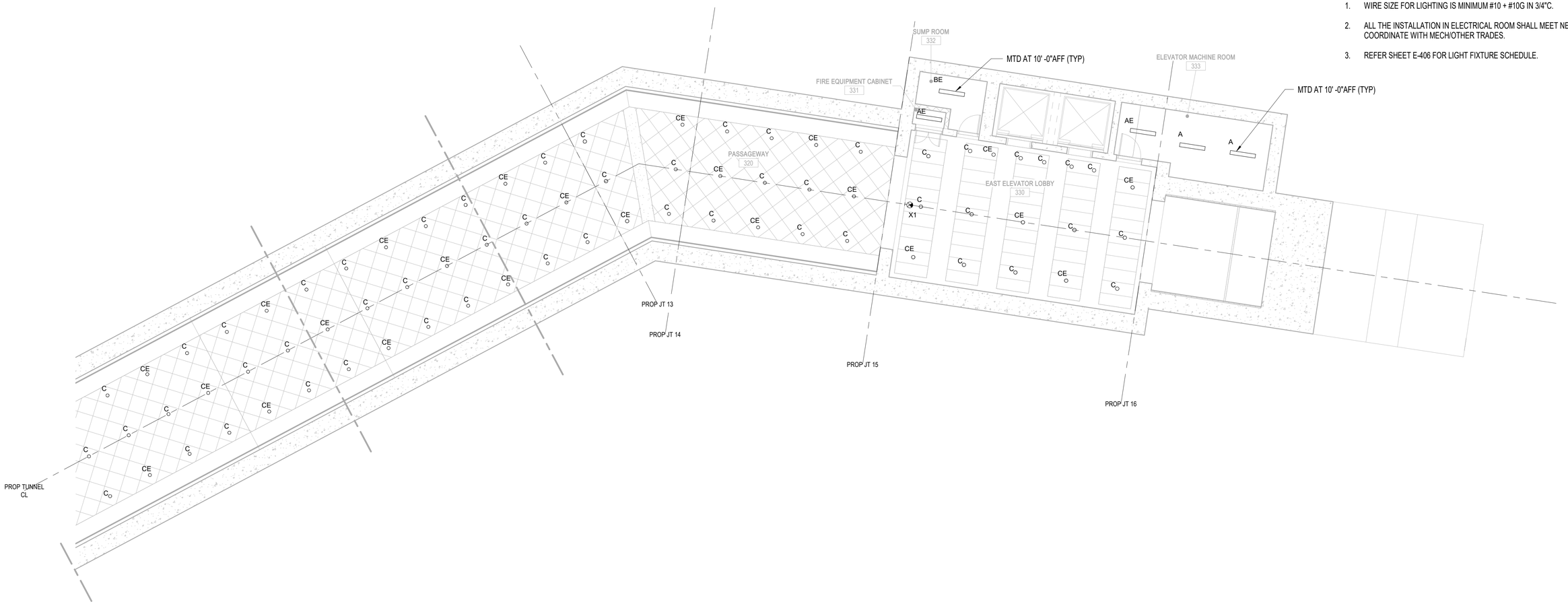
NOTES:

1. WIRE SIZE FOR LIGHTING IS MINIMUM #10 + #10G IN 3/4"C.
2. ALL THE INSTALLATION IN ELECTRICAL ROOM SHALL MEET NEC 110.26.(E). COORDINATE WITH MECH/OTHER TRADES.
3. REFER SHEET E-406 FOR LIGHT FIXTURE SCHEDULE.



1 / E-103 NEW TUNNEL EAST LIGHTING PLAN
1/8" = 1'-0"

N

0' 8' 16'

EPCM INC

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10/08/2024

TASK ORDER NO.

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REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

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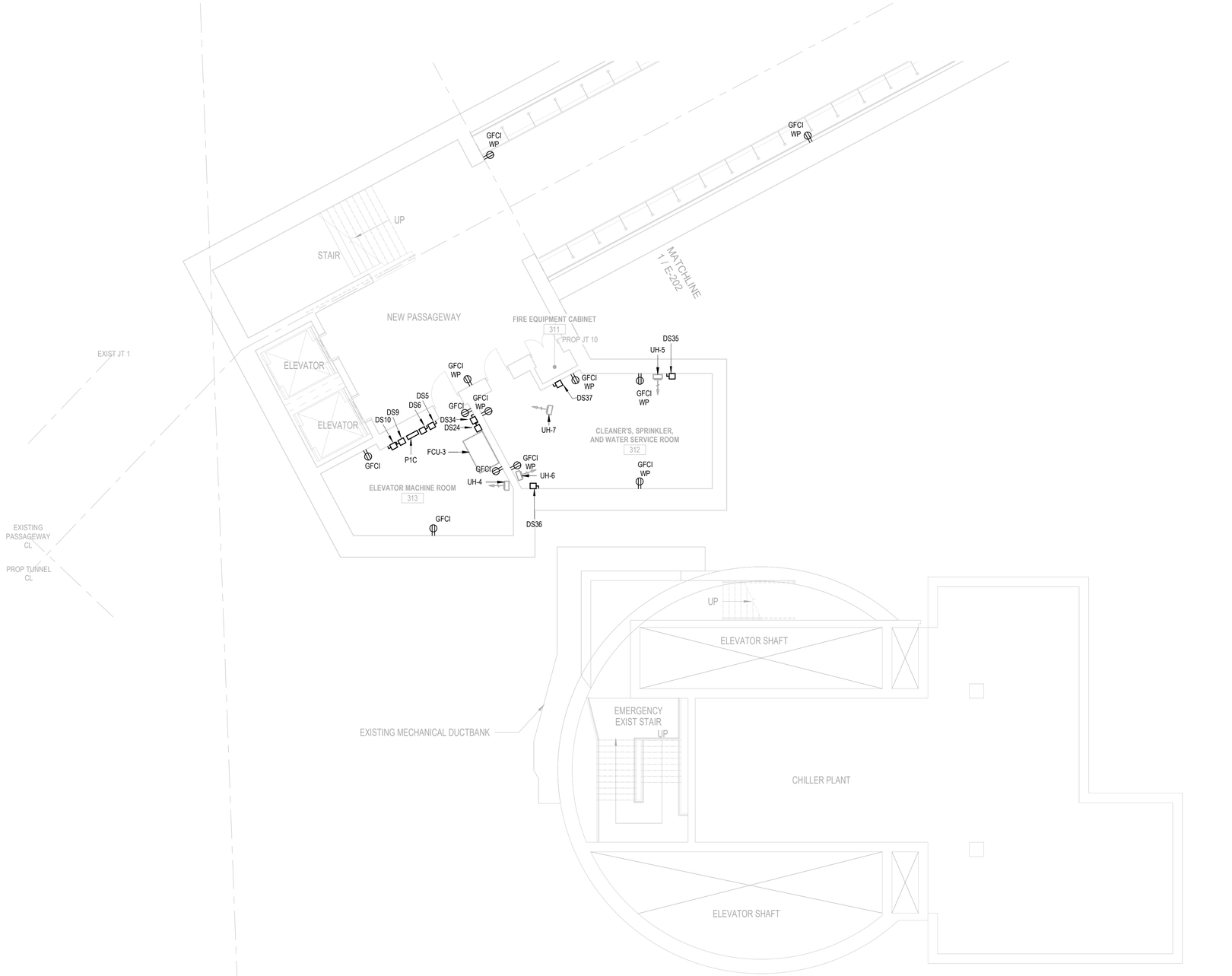
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
ELEVATOR MACHINE RM, SUMP RM EAST LIGHTING PLAN

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-103	136 OF 183

Autodesk Docs://Forest Glen/FB399_Forest Glen Station_Electrical 2024.rvt



1 / E-201 FLOOR PLAN - NEW TUNNEL WEST POWER PLAN
1/8" = 1'-0"

N

EPCM INC

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0' 8' 16'

10/08/2024

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REFERENCE DRAWINGS	
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REVISIONS		
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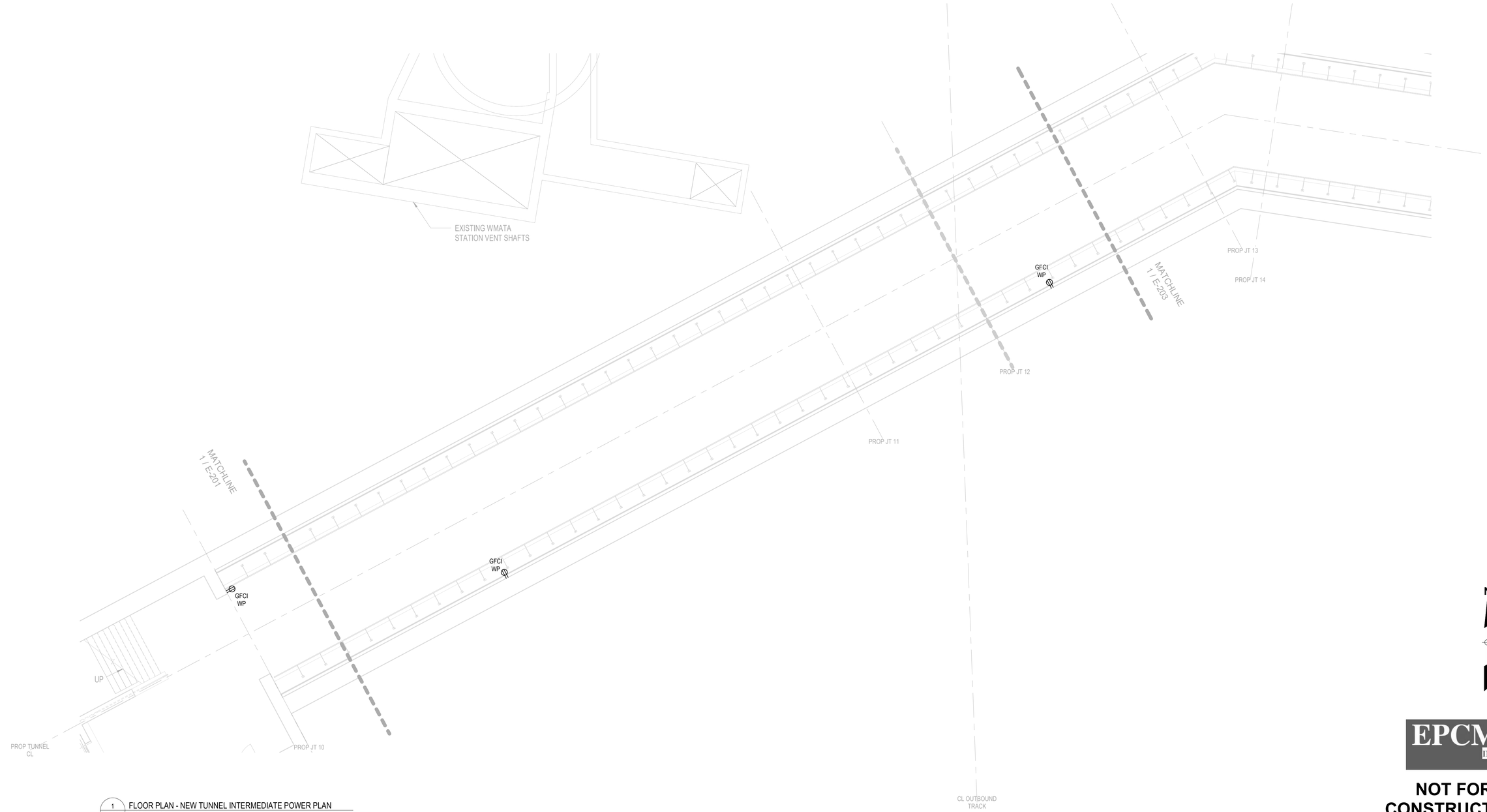
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
NEW TUNNEL WEST POWER PLAN

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-201	137 OF 183

B09 360//Forest Glen/183971_Forest Glen Station_Electrical.rvt



1 / E-202 FLOOR PLAN - NEW TUNNEL INTERMEDIATE POWER PLAN
1/8" = 1'-0"

N

0' 8' 16'

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10/08/2024

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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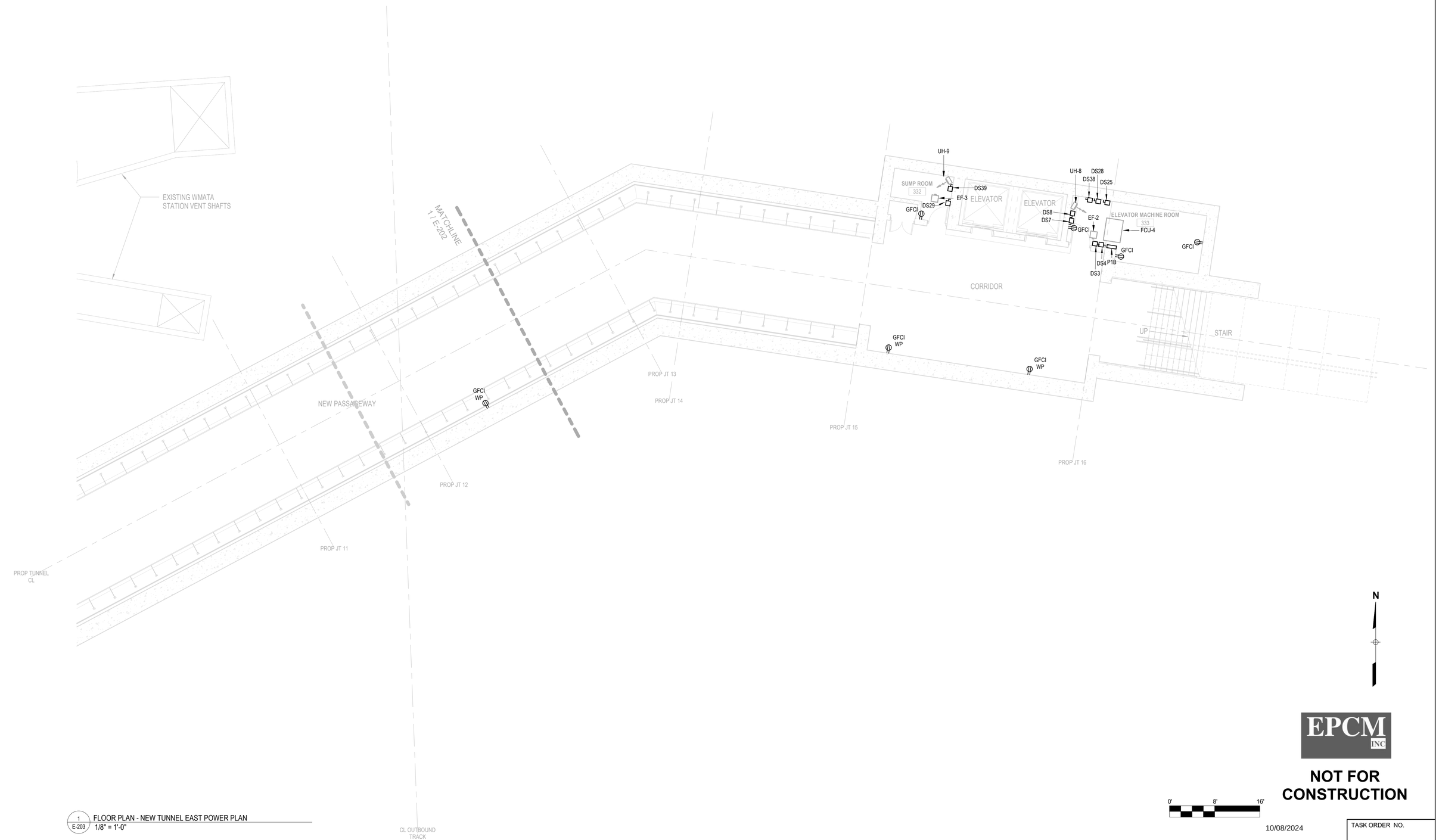
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
NEW TUNNEL INTERMEDIATE POWER PLAN

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-202	138 OF 183

Autodesk Docs://Forest Glen/19399_Forest Glen Station_Electrical 2024.rvt



1 / E-203 FLOOR PLAN - NEW TUNNEL EAST POWER PLAN
1/8" = 1'-0"

N

0' 8' 16'

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REFERENCE DRAWINGS	
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REVISIONS		
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B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
NEW TUNNEL EAST POWER PLAN

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-203	139 OF 183

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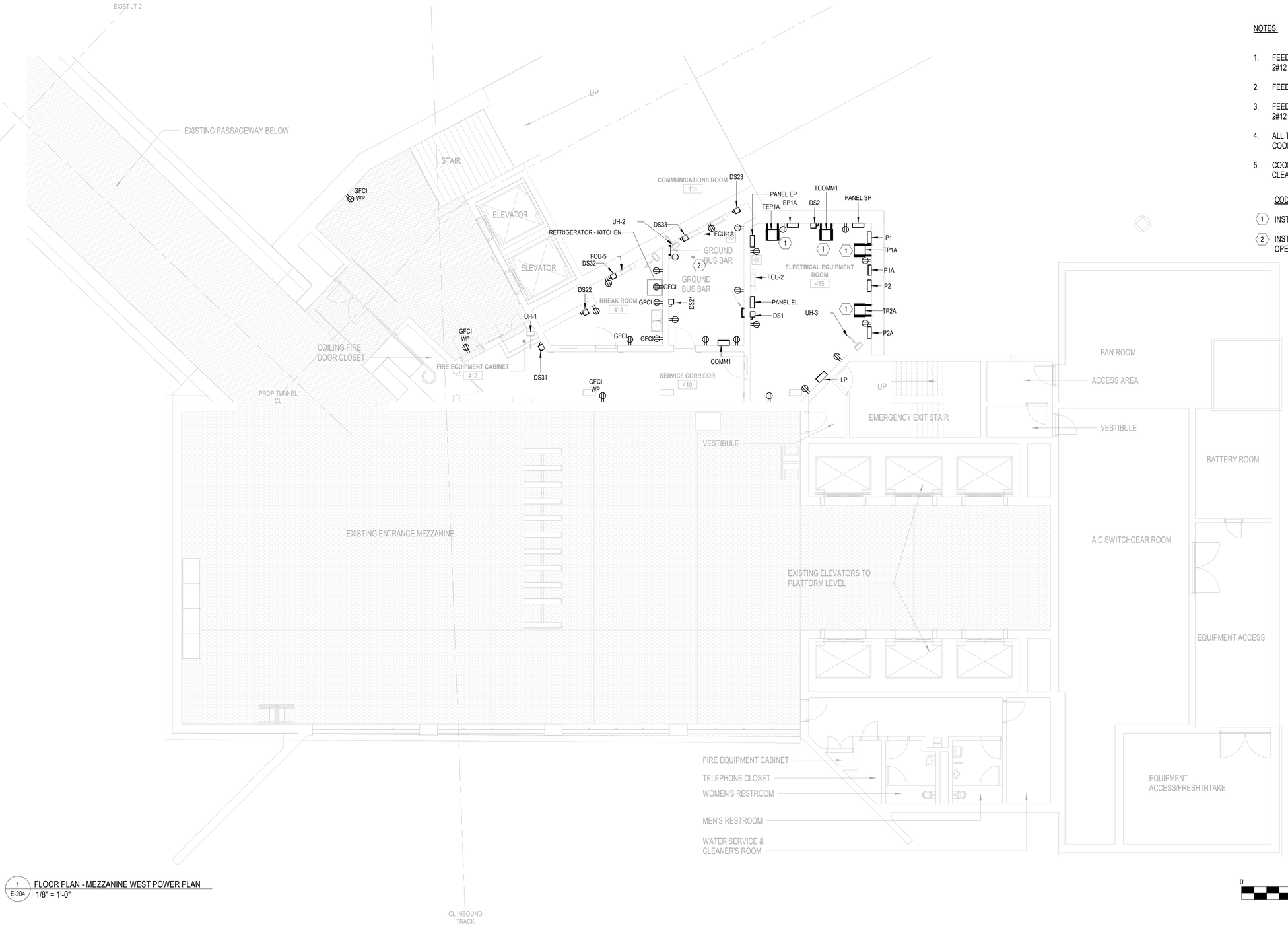

1 / E-204 FLOOR PLAN - MEZZANINE WEST POWER PLAN
1/8" = 1'-0"

NOTES:

1. FEED ELEVATOR EMERGENCY CALL BOX SYSTEM FROM COMM1-3 WITH 2#12 + #12G IN 3/4"C.
2. FEED PUBLIC ADDRESS SYSTEM FROM COMM1-4 WITH 2#12 + #12G IN 3/4"C.
3. FEED MEDIA CONVERTERS FROM COMM1-5 AND COMM1-6 EACH WITH 2#12 + #12G IN 3/4"C.
4. ALL THE INSTALLATION IN ELECTRICAL ROOM SHALL MEET NEC 110.26.(E). COORDINATE WITH MECH/OTHER TRADES.
5. COORDINATE FINAL APPROVED SHOP DRAWINGS WITH EQUIPMENT CLEARANCE REQUIREMENTS.

CODED NOTES:

1. INSTALL TRANSFORMER 7'-6" AFF.
2. INSTALL GROUND BUS ON ALL WALLS INCLUDING UP AND OVER OPENING TO ELECTRICAL ROOMS AND ENTRY DOORS.

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10/08/2024

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
NEW TUNNEL WEST MEZZANINE POWER PLAN

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-204	140 OF 183

Autodesk Docs://Forest Glen/18399_Forest Glen Station_Electrical 2024.rvt

1 E-205 STREET LEVEL PLAN - WEST END
1/4" = 1'-0"

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TASK ORDER NO.

DESIGNED ____ DATE ____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

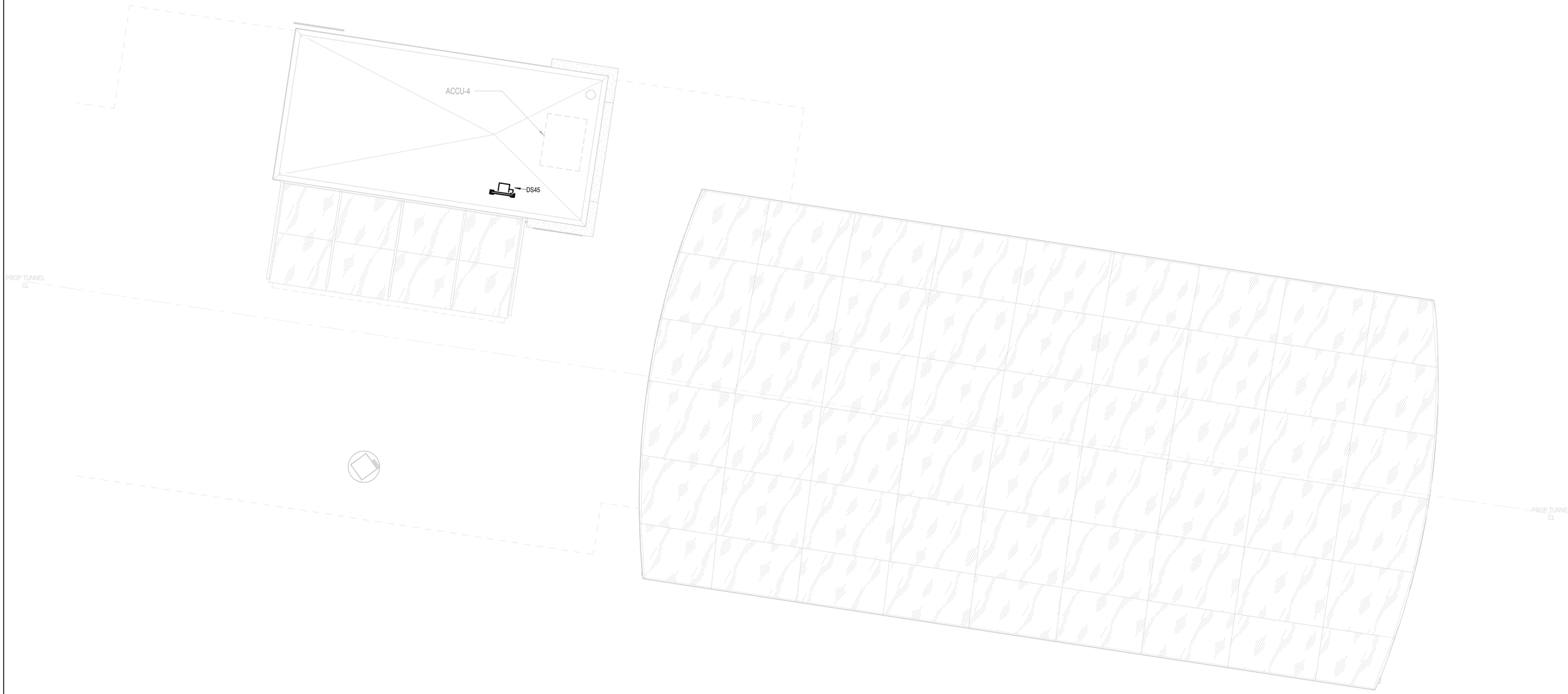
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
STREET LEVEL PLAN - WEST END

SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	E-205	141 OF 183

Autodesk Docs://Forest Glen/B3091_Forest Glen Station_Electrical 2024.rvt



1 / E-206 NEW TUNNEL EAST ROOF POWER PLAN
1/4" = 1'-0"

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10/08/2024

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN ELECTRICAL STREET LEVEL EAST END

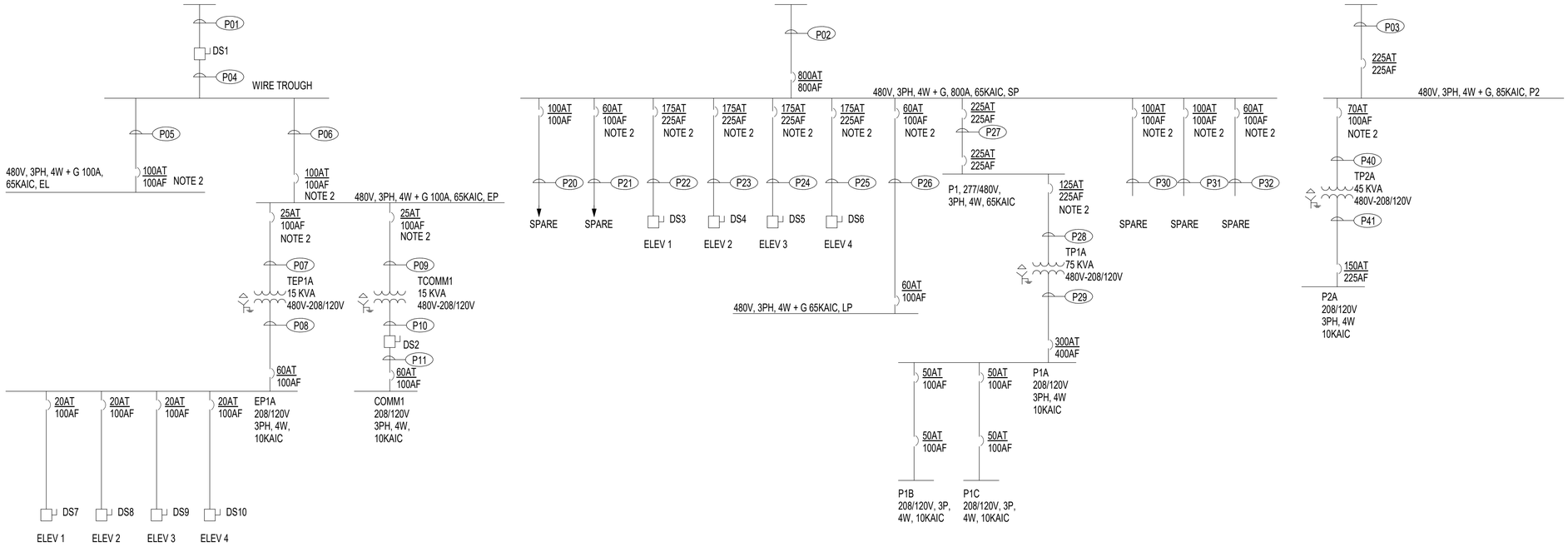
SCALE	DRAWING NO.	SHEET NO.
1/4" = 1'-0"	E-206	142 OF 183

BIM 360://Forest Glen/183091_Forest Glen Station_Electrical.rvt

NOTES:

1. ALL OVERCURRENT PROTECTIVE DEVICES SHALL BE COORDINATED FOR SELECTIVE TRIPPING AND MINIMUM DISRUPTION OF POWER IN ACCORDANCE WITH SPECIFICATIONS.

2. ELEVATOR #1, 2, 3, 4 DISCONNECT SHALL MEET ELEVATOR MANUFACTURERS REQUIREMENT TO PROVIDE FUSE CURVE ALLOWS FOR A MINIMUM OF SEVEN TIMES THE RATED LOAD FOR A MINIMUM OF FIVE SECONDS BEFORE FUSE BLOW. ELEVATOR #1, 2, 3, 4 DISCONNECT SHALL MEET THE NEC/ELEVATOR CODE.



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10/08/2024

TASK ORDER NO.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS			
DRAWN	DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
CHECKED	DATE						
APPROVED	DATE						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

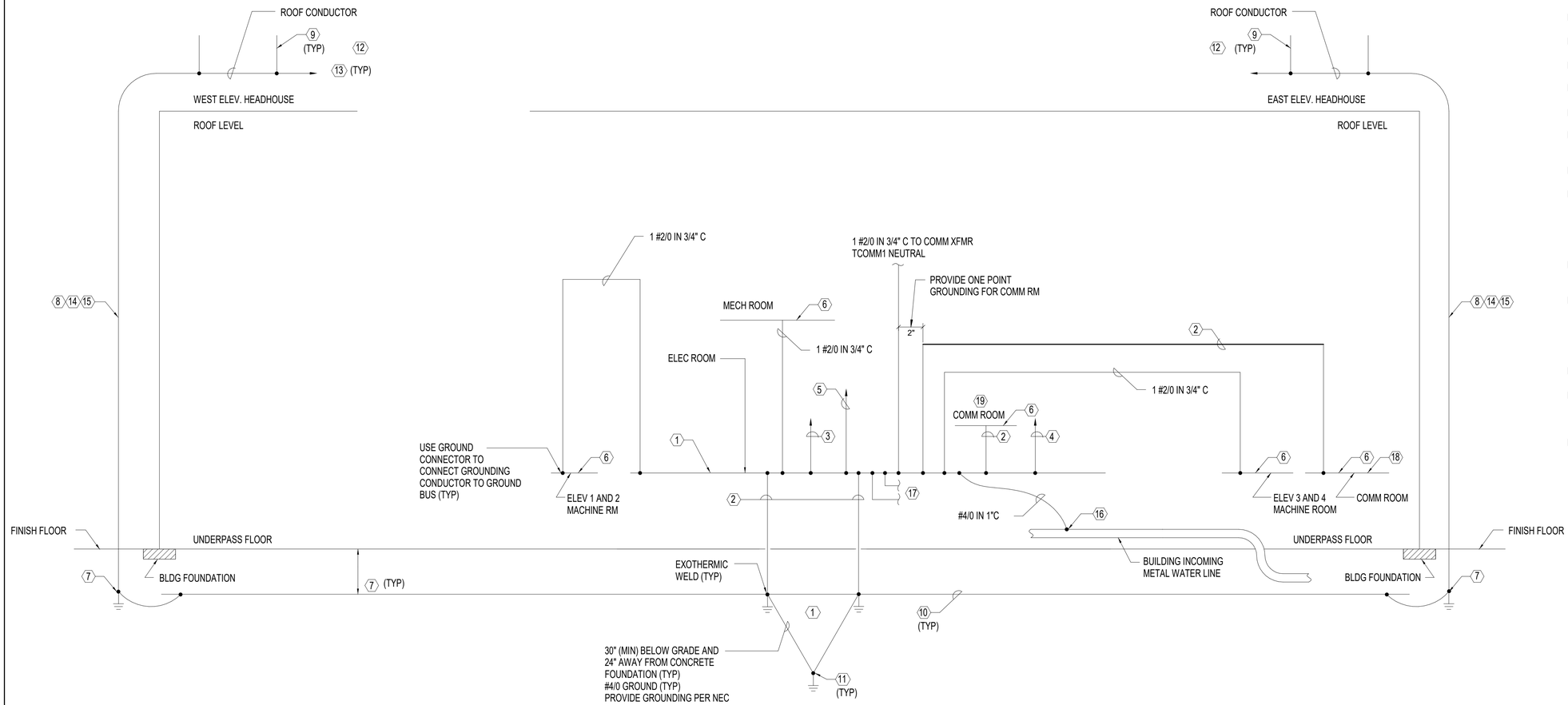
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
ELECTRICAL SINGLE LINE DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
As indicated	E-301	143 OF 183

BIM 360://Forest Glen/183091_Forest Glen Station_Electrical.rvt



CODED NOTES:

1. 1/4" THICK x 2" HIGH x AROUND INSIDE PERIMETER OF ELECTRICAL RM. 24" AFF. AT DOOR INSTALL BUS BAR UP, OVER, DOWN AND AROUND OPENINGS, COPPER BUS BAR GROUNDING RESISTANCE SHALL NOT EXCEED 25 OHMS. PROVIDE NUMBER OF GROUND RODS AS REQUIRED.
2. #4/0 GREEN INSULATED GROUNDING ELECTRODE CONDUCTOR IN 1"C.
3. #6 INSULATED GROUNDING ELECTRODE CONDUCTOR IN 3/4" CONDUIT INTERCONNECTING TRANSFORMER NEUTRAL TO GROUNDING BUS BAR FOR 5KVA, 15KVA, 30KVA, 45KVA TRANSFORMER (TYP). COORDINATE TRANSFORMER GROUND BUS BAR SIZE AS REQUIRED.
4. 1#1/0G IN 3/4" C TO EACH ELEVATOR PIT. LEAVE 20' LENGTH OF CONDUCTOR COILED UP IN EACH PIT.
5. IN ELECTRICAL ROOM ONLY. PROVIDE 1#2 BARE SOLID COPPER WIRE FROM GROUND BUS BAR TO ELECTRICAL EQUIPMENT ENCLOSURES.
6. 1/4" THICK x 2" HIGH x 24" LONG COPPER BUS BAR MOUNTED 24" AFF. COORDINATE LOCATION IN THE FIELD.
7. GROUNDING GRID 30" BELOW GRADE AND 2' AWAY FROM CONCRETE FOUNDATION.
8. LIGHTNING DOWN CONDUCTOR.
9. LIGHTNING AIR TERMINAL AT ROOF.
10. #4/0 BARE CONDUCTOR.
11. 5/8 INCH DIAMETER x 10FT LONG GROUND ROD.
12. LIGHTNING PROTECTION SYSTEM SHALL BE BONDED PER NFPA 780 AND NEC 250, 106, UL 96A.
13. PROVIDE MASTER LEVEL LIGHTNING PROTECTION SYSTEM.
14. LIGHTNING PROTECTION CONTRACTOR TO COORDINATE AIR TERMINAL LOCATION AND INSTALLATION TO ISOLATE TERMINAL CONNECTIONS TO STRUCTURE OF BLDG FROM EQUIPMENT GROUNDING, STEEL REINFORCEMENT IN CONCRETE AND OTHER BLDG STRUCTURAL COMPONENTS. COORDINATE WITH STRUCTURAL AND PRECAST CONTRACTOR.
15. BUILDING METAL FRAMEWORK CAN BE USED AS DOWN CONDUCTOR IF IT MEETS NFPA 780 REQUIREMENTS.
16. GROUNDING CONNECTIONS TO THE INCOMING METAL WATER PIPE WILL BE WITHIN 5FT OF WHERE THE PIPE ENTERS THE BLDG PER NEC 250.68.C.1. MAKE CONNECTION ON THE NON-CATHODICALLY PROTECTED SIDE OF THE INSULATING FLANGE (INSIDE THE BUILDING). THE CATHODICALLY PROTECTED METAL WATER PIPES WILL NOT BE USED AS GROUNDING ELECTRODES.
17. #4/0 BARE CONDUCTOR CONNECT TO EXISTING.
18. COMMUNICATION GROUND BUS BAR WILL NOT INCLUDE CONNECTION FOR ANY OTHER SYSTEM. FOR ADDITIONAL COMMUNICATION GROUNDING REQUIREMENTS SEE SPECIFICATION COPY FROM A10-E-302.
19. GROUND BUS BAR IN COMM ROOM FOR NON COMMUNICATION EQUIPMENT GROUNDING.

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10/08/2024

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN ELECTRICAL GROUNDING RISER DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	E-302	144 OF 183

BIM 360://Forest Glen/183091_Forest Glen Station_Electrical.rvt

EQUIPMENT CONNECTION SCHEDULE

CONNECTION NO.	EQUIP. ID	DESCRIPTION	LOCATION	LOAD		VOLTAGE		THERMAL OVERLOAD SWITCH/ STARTER/ VFD	DISCONNECT SWITCH NUMBER	WIRE			CONDUIT		PNL NAME	REMARKS/ FEEDER NUMBER
				HP	KW/KVA/ AMP	VOLT.	PHASE			SIZE	GND	TYPE	SIZE	TYPE		
01	FCU-1A	FAN COIL UNIT	COMMUNICATIONS ROOM		19.5A	208	1		DS21							NEMA 1
02	FCU-1B	FAN COIL UNIT	COMMUNICATIONS ROOM		19.5A	208	1		DS22							NEMA 1
03	FCU-2	FAN COIL UNIT	ELECTRICAL ROOM		19.5A	208	1		DS23							NEMA 1
04	FCU-3	FAN COIL UNIT	WEST END ELEVATOR MACHINE ROOM		10.7A	208	1		DS24							NEMA 4X
05	FCU-4	FAN COIL UNIT	EAST END ELEVATOR MACHINE ROOM		10.7A	208	1		DS25							NEMA 4X
05	FCU-5	FAN COIL UNIT	BREAK ROOM			208	1		DS26							NEMA 1
06	EF-1	EXHAUST FAN	MECHANICAL SHAFT	1/2		120	1		DS27							
07	EF-2	EXHAUST FAN	MACHINE ROOM	1/10		120	1		DS28							NEMA 4X
08	EF-3	EXHAUST FAN	SUMP PIT ROOM	1/10		120	1		DS29							NEMA 3R
09	SF-1	SUPPLY FAN	MECHANICAL SHAFT	1/2		120	1		DS30							
10	UH-1	UNIT HEATER	MEZZANINE CORRIDOR		9.6A	480	3		DS31							NEMA 1
11	UH-2	UNIT HEATER	COMMUNICATIONS ROOM		9.6A	480	3		DS32							NEMA 1
12	UH-3	UNIT HEATER	ELECTRICAL ROOM		9.6A	480	3		DS33							NEMA 1
13	UH-4	UNIT HEATER	WEST ELEVATOR MACHINE ROOM		9.6A	480	3		DS34							NEMA 4X
14	UH-5	UNIT HEATER	WATER SERVICE ROOM		9.6A	480	3		DS35							NEMA 3R
15	UH-6	UNIT HEATER	WATER SERVICE ROOM		6.6A	480	3		DS36							NEMA 3R
16	UH-7	UNIT HEATER	PASSAGE LEVEL CORRIDOR		9.6A	480	3		DS37							NEMA 1
17	UH-8	UNIT HEATER	EAST ELEVATOR MACHINE ROOM		9.6A	480	3		DS38							NEMA 4X
18	UH-9	UNIT HEATER	EAST END SUMP ROOM		9.6A	480	3		DS39							NEMA 3R
18	UH-10	UNIT HEATER	BREAK ROOM		6.6A	480	3		DS40							NEMA 1
19	ACCU-1A	AIR COOLED CONDENSING UNIT	EXISTING ROOF		19.5A	208	1		DS41							NEMA 3R
20	ACCU-1B	AIR COOLED CONDENSING UNIT	EXISTING ROOF		19.5A	208	1		DS42							NEMA 3R
21	ACCU-2	AIR COOLED CONDENSING UNIT	EXISTING ROOF		19.5A	208	1		DS43							NEMA 3R
22	ACCU-3	AIR COOLED CONDENSING UNIT	EXISTING ROOF		20.6A	480	3		DS44							NEMA 3R
23	ACCU-4	AIR COOLED CONDENSING UNIT	NEW HEADHOUSE ROOF		20.6A	480	3		DS45							NEMA 3R

DISCONNECT SWITCH SCHEDULE

DISCONNECT SWITCH NO.	EQUIPMENT ID	DESCRIPTION	LOCATION	SW/ POLE	FUSE	MIN. VOLTAGE RATING	NEMA TYPE	REMARKS
DS1	EMERGENCY POWER/UPS FEED	PANEL EL/ PANEL EP INCOMING	ELECTRICAL ROOM 10	225 A/3P + SN + G	225 A	480 V	1	
DS2	TCOMM1 SECONDARY	TCOMM1 SECONDARY	ELECTRICAL ROOM 10	60 A/3P	60 A	208 V	1	
DS3	ELEV 1	ELEV 1 480V POWER	ELEV MACHINE ROOM	225 A/3P	175 A	480 V	4	PROVIDE SHUNT TRIP
DS4	ELEV 2	ELEV 2 480V POWER	ELEV MACHINE ROOM	225 A/3P	175 A	480 V	4	PROVIDE SHUNT TRIP
DS5	ELEV 3	ELEV 3 480V POWER	ELEV MACHINE ROOM	225 A/3P	175 A	480 V	4	PROVIDE SHUNT TRIP
DS6	ELEV 4	ELEV 4 480V POWER	ELEV MACHINE ROOM	225 A/3P	175 A	480 V	4	PROVIDE SHUNT TRIP
DS7	ELEV 1	ELEV 1 120V EMERG POWER	ELEV MACHINE ROOM	30 A/1P + SN + G	20 A	120 V	4X	
DS8	ELEV 2	ELEV 2 120V EMERG POWER	ELEV MACHINE ROOM	30 A/1P + SN + G	20 A	120 V	4X	
DS9	ELEV 3	ELEV 3 120V EMERG POWER	ELEV MACHINE ROOM	30 A/1P + SN + G	20 A	120 V	4X	
DS10	ELEV 4	ELEV 4 120V EMERG POWER	ELEV MACHINE ROOM	30 A/1P + SN + G	20 A	120 V	4X	

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10/08/2024

TASK ORDER NO.

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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
EQ. CONNECTION, DISCONNECT SW. SCHEDULE

SCALE

DRAWING NO. E-401

SHEET NO. 145 OF 183

BIM 360://Forest Glen/183091_Forest Glen Station_Electrical.rvt

BRANCH PANEL: P1

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 42

A.I.C. RATING: 65,000 A
BUS RATING: 225 A
MAIN BREAKER: 225 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A	B	C	A	B	C	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

BRANCH PANEL: P2

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 42

A.I.C. RATING: 85,000 A
BUS RATING: 225 A
MAIN BREAKER: 225 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A	B	C	A	B	C	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

BRANCH PANEL: P1A

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 208Y/120
PHASES: 3
WIRES: 4
POLES: 42

A.I.C. RATING: 10,000 A
BUS RATING: 400 A
MAIN BREAKER: 300 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A (KVA)	B (KVA)	C (KVA)	A (KVA)	B (KVA)	C (KVA)	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

BRANCH PANEL: P2A

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 208Y/120
PHASES: 3
WIRES: 4
POLES: 42

A.I.C. RATING: 10,000 A
BUS RATING: 225 A
MAIN BREAKER: 150 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A (KVA)	B (KVA)	C (KVA)	A (KVA)	B (KVA)	C (KVA)	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

EPCM INC

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10/08/2024

TASK ORDER NO.

DESIGNED _____ DATE _____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
PANELBOARD SCHEDULE - I

SCALE

DRAWING NO. E-402

SHEET NO. 146 OF 183

Autodesk Docs://Forest Glen/B3091_Forest Glen Station_Electrical 2024.rvt

BRANCH PANEL: PANEL EP

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 30

A.I.C. RATING: 65,000 A
BUS RATING: 100 A
MAIN BREAKER: 100 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A (KVA)	B (KVA)	C (KVA)	A (KVA)	B (KVA)	C (KVA)	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

BRANCH PANEL: PANEL EL

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 30

A.I.C. RATING: 65,000 A
BUS RATING: 100 A
MAIN BREAKER: 100 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A	B	C	A	B	C	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
			TOTAL LOAD:		0.00 kVA			0.00 kVA			0.00 kVA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA		0 VA	0 VA

BRANCH PANEL: EP1A

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 208Y/120
PHASES: 3
WIRES: 4
POLES: 30

A.I.C. RATING: 10,000 A
BUS RATING: 100 A
MAIN BREAKER: 60 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A (KVA)	B (KVA)	C (KVA)	A (KVA)	B (KVA)	C (KVA)	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

BRANCH PANEL: PANEL SP

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 42

A.I.C. RATING: 65,000 A
BUS RATING: 800 A
MAIN BREAKER: 800 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A	B	C	A	B	C	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
			TOTAL LOAD:		0.00 kVA			0 VA			0 VA				

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

EPCM INC

NOT FOR CONSTRUCTION

10/08/2024

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
PANELBOARD SCHEDULE - II

SCALE

DRAWING NO. E-403

SHEET NO. 147 OF 183

BIM 360://Forest Glen/183891_ForestGlenStation_Electrical.rvt

BRANCH PANEL: LP

LOCATION: ELECTRICAL ROOM 10
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 42

A.I.C. RATING: 65,000 A
BUS RATING: 100 A
MAIN BREAKER: 60 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A (KVA)	B (KVA)	C (KVA)	A (KVA)	B (KVA)	C (KVA)	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
				31							32				
				33							34				
				35							36				
				37							38				
				39							40				
				41							42				
TOTAL LOAD:					0.00 kVA		0.00 kVA			0.00 kVA					

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA		0 VA	0 VA

BRANCH PANEL: COMM1

LOCATION: COMMUNICATION ROOM 5
MOUNTING: SURFACE
ENCLOSURE: TYPE 1

VOLTAGE: 480Y/277
PHASES: 3
WIRES: 4
POLES: 30

A.I.C. RATING: 10,000 A
BUS RATING: 100 A
MAIN BREAKER: 60 A

DESCRIPTION	FRAME	TRIP	POLES	CKT NO.	A (KVA)	B (KVA)	C (KVA)	A (KVA)	B (KVA)	C (KVA)	CKT NO.	POLES	TRIP	FRAME	DESCRIPTION
				1							2				
				3							4				
				5							6				
				7							8				
				9							10				
				11							12				
				13							14				
				15							16				
				17							18				
				19							20				
				21							22				
				23							24				
				25							26				
				27							28				
				29							30				
TOTAL LOAD:					0.00 kVA		0 VA			0 VA					

TOTAL CONNECTED LOAD (KVA)		WINTER DEMAND (KVA)	SUMMER DEMAND (KVA)
0 VA			

EPCM INC

NOT FOR CONSTRUCTION

10/08/2024

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
PANELBOARD SCHEDULE - III

SCALE

DRAWING NO. E-404

SHEET NO. 148 OF 183

BIM 360://Forest Glen/183971_Forest Glen Station_Electrical.rvt

POWER FEEDER SCHEDULE

FEEEDER NO.	FROM	TO	CONDUCTOR		CONDUIT		VOLTAGE	REMARKS
			SIZE	TYPE	SIZE	TYPE		

Autodesk Docs://Forest Glen/18399_Forest Glen Station_Electrical 2024.rvt

LIGHT FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NO	VOLTAGE	WATTAGE	MOUNTING	REMARKS
A	INDOOR LED SUSPENDED ENCLOSED	H.E. Williams	96-4-L62-840-HIAFR-DRV-UNV	277 V	48 W	SURFACE/ PENDANT	
AE	INDOOR LED SUSPENDED ENCLOSED	H.E. Williams	96-4-L62-840-HIAFR-DRV-UNV- EM/18WC	277 V	48 W	SURFACE/ PENDANT	
B	INDOOR LED SUSPENDED ENCLOSED	H.E. Williams	96-4-L81-840-HIAFR-DRV-UNV	277 V	64 W	SURFACE/ PENDANT	
BE	INDOOR LED SUSPENDED ENCLOSED	H.E. Williams	96-4-L81-840-HIAFR-DRV-UNV -EM/18WC	277 V	64 W	SURFACE/ PENDANT	
C	LED 6" DOWNLIGHT ROUND	Acuity Brands Lighting	LDN6-30/30 L06 -AR LSS	277 V	35 W	RECESSED	
CE	LED 6" DOWNLIGHT ROUND	Acuity Brands Lighting	LDN6-30/30 L06 -ELSD-AR LSS	277 V	35 W	RECESSED	
D	INDOOR LED LOW PROFILE TROFFER	H.E. Williams	LPT-22-L45/830-SAF12095-DIM-UNV	277 V	34 W	RECESSED	
DE	INDOOR LED LOW PROFILE TROFFER	H.E. Williams	LPT-22-L45/830-SAF12095- EM/7W-DIM-UNV	277 V	34 W	RECESSED	
X1	EMERGENCY EXIT	COMMERCIAL LIGHTING	EXSWL-R-S-W-TP-USA-EXT	277 V		SURFACE	
X2	EMERGENCY EXIT	COMMERCIAL LIGHTING	EXSWL-R-D-W-TP-USA-EXT	277 V		SURFACE/ PENDANT	

EPCM INC

NOT FOR CONSTRUCTION

10/08/2024

TASK ORDER NO.

DESIGNED _____ DATE _____

DRAWN _____ DATE _____

CHECKED _____ DATE _____

APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRICAL
LIGHT FIXTURE SCHEDULE

SCALE	DRAWING NO.	SHEET NO.
	E-406	150 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt

FIRE ALARM SYMBOL LEGEND

FACP	FIRE ALARM CONTROL PANEL: (E) EXISTING; (N) NEW
FOM	EXISTING FIBER OPTIC MODEM: (E) EXISTING; (N) NEW
S (E)	SPEAKER/STROBE: (E) EXISTING; (N) NEW
S (RE)	RELOCATED EXISTING SPEAKER/STROBE
FMP	FIRE MANAGEMENT PANEL
ANN	FIRE ALARM GRAPHIC REMOTE ANNUNCIATOR PANEL
C	INDIVIDUAL ADDRESSABLE CONTROL MODULE
M	INDIVIDUAL ADDRESSABLE MONITORING MODULE
H XX	CONVENTIONAL THERMAL DETECTOR RC - RATE COMPENSATING TEMPERATURE SET AT 190 DEGREES F. AC - ABOVE CEILING - COMBINATION RATE OF RISE AND FIXED TEMPERATURE SET AT 135 DEGREES F. (INSTALLED ABOVE ACCESSIBLE CEILING) FX - FIXED TEMPERATURE SET AT 190 DEGREES F.
S XX	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR WG - WIRE GUARD U - UNDER RAISED FLOOR DETECTION RC - RECEIVER (LINEAR BEAM DETECTION) U - TRANSMITTER (LINEAR BEAM DETECTION)
D	ADDRESSABLE DUCT SMOKE DETECTOR; REFER TO MECHANICAL DRAWING FOR ADDITIONAL REQUIREMENTS S = SUPPLY R = RETURN
F XX	ADDRESSABLE FIRE ALARM MANUAL PULL STATION WG = LEXAN COVER W/SELF CONTAINED HORN WP = WEATHER PROOF
F XX ##	SPEAKER/STROBE UNIT SYNCHRONIZED WALL MOUNT XX-CD = CANDELA RATING ## = WP - WEATHER PROOF
XX ##	STROBE UNIT WALL MOUNT XX-CD = CANDELA RATING ## = WP - WEATHER PROOF
GDP	DATA GATHERING PANEL (REMOTE TRANSPONDER)
	END OF LINE SUPERVISORY DEVICE

STANDARD MOUNTING HEIGHTS

CEILING	SMOKE AND HEAT DETECTORS, 360° SECURITY MOTION DETECTORS, CCTV SURVEILLANCE CAMERAS, PUBLIC ADDRESS AND VOICE EVACUATION SPEAKERS, WIRELESS ACCESS POINTS. TV AND LCD PROJECTOR JACKS
8' A.F.G.	EXTERIOR VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, EXTERIOR PUBLIC ADDRESS SPEAKERS.
7'-4" A.F.F.	VISUAL AND AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, WALL MOUNTED SECURITY MOTION DETECTORS (CENTER OF DEVICE)
6" ABOVE DOOR JAMB	REQUEST TO EXIT MOTION DETECTORS
5'-6" A.F.F	TOP OF PLYWOOD TELEPHONE BACKBOARD
5'-4" A.F.F.	FIRE ALARM ANNUNCIATOR PANELS, FIRE FIGHTER CONTROL STATIONS, SECURITY ANNUNCIATOR PANELS
4'-8" A.F.G. MAX	PEDESTAL MOUNT INTERCOM PEDESTAL MOUNT CARD READER
4'-0" A.F.F.	INTERCOM STATIONS, FIRE FIGHTER TELEPHONE JACKS, FIRE ALARM MANUAL STATIONS, CARD READERS, MANUAL REQUEST TO EXIT DEVICES, WALL MOUNTED DURESS ALARM STATIONS, RESCUE ASSISTANCE PANELS, LCD KEYPADS (CENTER OF DEVICE)
UNDER COUNTER OR DESK	DURESS ALARM BUTTONS, DOOR RELEASE BUTTONS
1'-6" A.F.F.	DATA/TELEPHONE JACKS, LOW TELEVISION JACKS, MICROPHONE JACKS
0'-0"	IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (FF) (DATA, TELEPHONE, MICROPHONE, MEDIA)

1. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND WILL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
2. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS WILL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
3. THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES SHALL BE COORDINATED WITH ALL AFFECTED TRADES PRIOR TO INSTALLATION. ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WILL BE DOCUMENTED AT THE TIME OF SHOP DRAWING SUBMISSION.

NFPA 72 PERFORMANCE CRITERIA

ALARM CAPABILITY DURING ABNORMAL CONDITIONS		
TROUBLE INDICATION AT PROTECTED PREMISES		
ABNORMAL CONDITION	5	6
SINGLE OPEN	X	
SINGLE GROUND	X	X
WIRE-TO-WIRE SHORT	X	

ALARM CAPABILITY DURING ABNORMAL CONDITIONS			
TROUBLE INDICATION AT PROTECTED PREMISES			
ALARM			
ABNORMAL CONDITION		X	
SINGLE OPEN		X	
SINGLE GROUND		X	R
WIRE-TO-WIRE SHORT		X	
WIRE-TO-WIRE SHORT & OPEN		X	
WIRE-TO-WIRE SHORT & GROUND		X	
OPEN & GROUND		X	
LOSS OF CARRIER(IF USED)/ CHANNEL INTERFACE		X	

NOTIFICATION APPLIANCE CIRCUITS

NFPA - CLASS B - STYLE Y

SIGNALING LINE CIRCUITS (SLC)

NFPA - CLASS B - STYLE 4

NOTIFICATION CIRCUITS NOTE:
THE ALARM SIGNAL DEVICES DO NOT HAVE TO BE WIRED SEQUENTIALLY BUT THEY:
-WILL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS
-WILL HAVE AN EOL
-WILL NOT BE T-TAPPED
-MUST BE IN CONDUIT

INITIATION LOOP (SLC) NOTE:
THE ALARM INITIATION DEVICES DO NOT HAVE TO BE WIRED SEQUENTIALLY BUT THEY:
-WILL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS
-DO NOT HAVE AN EOL
-MAY BE T-TAPPED
-MAY HAVE UNIQUE ADDRESSES
-WILL BE IN CONDUIT

ROOM SPACING FOR WALL-MOUNTED VISIBLE APPLIANCES MINIMUM REQUIRED LIGHT

OUTPUT (EFFECTIVE INTENSITY/CANDELA) IN ACCORDANCE WITH NFPA 72

MAXIMUM RM. SIZE	ONE LIGHT PER ROOM	TWO LIGHTS PER ROOM	FOUR LIGHTS PER ROOM
20 X 20	15cd	N/A	N/A
30 X 30	30cd	15cd	N/A
40 X 40	60cd	30cd	15cd
50 X 50	95cd	60cd	30cd
60 X 60	135cd	95cd	30cd
70 X 70	185cd	95cd	30cd
80 X 80	240cd	135cd	60cd
90 X 90	305cd	185cd	95cd
100 X 100	375cd	240cd	95cd
110 X 110	455cd	240cd	135cd
120 X 120	540cd	305cd	135cd
130 X 130	635cd	375cd	185cd

NA = NOT ALLOWABLE.

NOTE: CONTRACTOR WILL PROVIDE REQUIRED CANDELA RATED STROBES IN ACCORDANCE WITH THE ABOVE TABLE FOR ALL VISIBLE APPLIANCES BASED ON LOCATION AS INDICATED ON THE CONTRACT

GENERAL SYMBOLS LEGEND

PB	OUTDOOR PULLBOX	JB	JUNCTION BOX
	120 VAC EMERGENCY ELECTRICAL DUPLEX OUTLET	J2	JUNCTION BOX / PULL BOX. STACKED FOR CONNECTION OF CELL EQUIPMENT
	120 VAC EMERGENCY ELECTRICAL QUADRAPLEX OUTLET	RIC	ROUGH IN ONLY
J	120 VAC EMERGENCY ELECTRICAL CONNECTION	#	SPECIFIC CONSTRUCTION ITEM NOTE INDICATOR
	ABOVE GRADE/SLAB HOMERUN		BELOW GRADE/SLAB ENCLOSED IN CONDUIT
	CONDUIT UP		CONDUIT DOWN
	ABOVE GRADE/SLAB HOMERUN ENCLOSED IN CONDUIT		EQUIPMENT GROUND

NOTE:
THIS IS A STANDARD SYMBOL LIST. ALL SYMBOLS MAY NOT APPEAR ON THIS PROJECT.

ADDRESSABLE FIRE ALARM SYSTEM WIRE SCHEDULE

DESCRIPTION	TYPICAL DEVICES	NEC CLASSIFICATION	CABLE	TWISTED	No. OF CONDUCTORS	SHIELDED	NFPA CLASS	NFPA STYLE	IN CONDUIT	NOTES
ADDRESSABLE INITIATING LOOP (SLC)	MANUAL STATIONS, SMOKE/HEAT DETECTORS, INTERFACE MODULES	POWER-LIMITED	16 AWG	YES	2	PER MANUF.	B	4	YES	T-TAPPING PERMITTED, BUT DISCOURAGED, NO EOL'S.
NOTIFICATION APPLIANCE CIRCUIT (NAC)	HORNS, STROBES, BELLS	POWER-LIMITED	14 AWG	NO	2	NO	B	Y	YES	NO T-TAPPING, CIRCUITS FROM FACP'S: REQUIRED EOL, CIRCUITS FROM FCPS: REQUIRED EOL.
NOTIFICATION APPLIANCE CIRCUIT (NAC)	SPEAKERS	POWER-LIMITED	16 AWG	YES	2	YES	B	Y	YES	NO T-TAPPING, CIRCUITS FROM FACP'S: REQUIRED EOL, CIRCUITS FROM AMPLIFIERS/DGP'S: REQUIRED EOL.
24 VDC POWER	REMOTE ANNUNCIATORS, CONTROL MODULES, BEAM DETECTORS	POWER-LIMITED	14 AWG	NO	2	NO	B	N/A	YES	T-TAPPING PERMITTED.
PRINTER CABLE	PRINTER	POWER-LIMITED	-	YES	-	NO	N/A	N/A	YES	MAX. 25FT CABLE RUN (GREATER THAN 25FT IN LENGTH CONTRACTOR SHALL PROVIDE APPROPRIATE MODEMS)
RS485-TRANSPONDER NETWORK (SLC)	COMMUNICATION BETWEEN FACP'S AND TRANSPONDERS	POWER-LIMITED	18 AWG	YES	2	PER MANUF.	A	7a	YES	NO T-TAPPING, 5000 FT MAX CABLE RUN,
CONVENTIONAL INITIATING LOOP (IDC)	CONVENTIONAL HEAT DETECTORS, BEAM DETECTORS	POWER-LIMITED	14 AWG	NO	2	YES	B	Y	YES	NO TAPPING, MANUFACTURERS REQUIRED EOL

ADDRESSABLE FIRE ALARM SYSTEM CABLE TYPE

NEC DESIGNATION *	DESCRIPTION	APPLICATION	CONDUCTOR MATERIAL	ACCEPTABLE FOR PROJECT
FPLP	FIRE, POWER LIMITED, PLENUM	SUITABLE FOR USE IN DUCTS, PLENUMS, AND OTHER SPACE USED FOR ENVIRONMENTAL AIR.	COPPER	NO
FPLR	FIRE, POWER LIMITED, RISER	SUITABLE FOR USE IN A VERTICAL RUN IN A SHAFT OR WHEN A WIRE RUN PASSES FROM FLOOR TO FLOOR.	COPPER	NO
FPL	FIRE, POWER LIMITED	SUITABLE FOR GENERAL-PURPOSE FIRE ALARM USE IN CONDUITS, WITH THE EXCEPTIONS OF THE ABOVE APPLICATIONS.	COPPER	YES

* CABLE TYPES ARE LISTED IN DESCENDING ORDER OF FIRE-RESISTANT RATING, PER NFPA 70, TABLE 760-71(h)

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FIRE ALARM SYMBOLS AND LEGENDS

SCALE	DRAWING NO.	SHEET NO.
1/8" = 1'-0"	B09-EF-001	151 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt

GENERAL FIRE ALARM SYSTEM NOTES:

1. THE FOLLOWING GENERAL NOTES AS LISTED BELOW APPLY TO THE EXPANSION OF THE EXISTING EDWARDS EST-4 FIRE ALARM SYSTEM SCOPES OF WORK AS INDICATED ON THE EF SERIES DRAWINGS.

2. THE FIRE ALARM IS EXISTING AND WILL REQUIRE THE CONTRACTOR TO EXPAND AS REQUIRED FOR A COMPLETE OPERATING FIRE ALARM SYSTEM. WORK INCLUDES RELOCATION AND/OR REPLACEMENT OF EXISTING COMPONENTS, INSTALLATION OF NEW COMPONENTS, AND ALL SOFTWARE REVISIONS TO PLACE SYSTEM IN FULL OPERATION. EXISTING SYSTEM SHALL BE COMPLETELY FUNCTIONAL THROUGH CONSTRUCTION.

3. PROJECT PHASING AND SEQUENCING ARE CRITICAL TO ALL CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PLAN, SCHEDULE AND INSTALL ALL SYSTEMS IN ACCORDANCE WITH ALL REQUIREMENTS OF THE PROJECT CONSTRUCTION SCHEDULE AND SHALL SCHEDULE ALL WORK IN SUCH A MANNER THAT THE EXISTING OPERATIONAL INTEGRITY OF THE EXISTING FIRE ALARM SYSTEM IS MAINTAINED.

4. FIRE ALARM INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 72 FIRE ALARM AND SIGNALING SYSTEM CODE.

5. ALL WIRING TO BE IN ACCORDANCE WITH ALL REQUIREMENTS OF NEC ARTICLE 760, LOCAL AUTHORITIES AND APPLICABLE CODES.

6. UPON COMPLETION OF THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEM INTEGRATION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TEST AND CERTIFY WITH LICENSE & INSPECTION'S (L&I) AND AHJ PRESENCE, THE ENTIRE FIRE ALARM SYSTEM IN ACCORDANCE WITH ALL REQUIREMENTS OF NFPA 72.

7. MINIMUM WIRE SIZE FOR INITIATING CIRCUITS TO BE #14AWG SOLID COPPER CONDUCTOR. MINIMUM WIRE SIZE OF INDICATING CIRCUITS SHALL BE # 12AWG SOLID COPPER CONDUCTOR. STRANDED CABLING SHALL NOT BE PERMITTED. ALL FIRE ALARM SYSTEM WIRING TO BE CLASS A AND CONFORM TO NFPA-70. WIRE NUTS SHALL NOT BE ALLOWED. WIRE SHALL BE THHN/THHW WITH 600V VOLTAGE RATING AND 90° TEMPERATURE RATING. WORK ON EXISTING SYSTEMS SHALL MATCH EXISTING COLOR-CODING OF WIRE.

8. CONTRACTOR SHALL PROVIDE THE FOLLOWING SHOP DRAWINGS TO THE EXPANSION OF THE EXISTING FIRE ALARM SYSTEM. ALL ITEMS BELOW SHALL BE COMPATIBLE WITH THE EXISTING EDWARDS EST-4 FIRE ALARM SYSTEM, NO SUBSTITUTIONS:
   A. WIRING DIAGRAM
   B. CIRCUIT CAPACITY FOR INITIATING AND NOTIFICATION DEVICES
   C. CABLE REQUIREMENTS
   D. TAGS, ADDRESSABLE AND DEVICE IDs
   E. PRODUCT CATALOG LITERATURE
   F. BATTERY CALCULATIONS
   G. SEQUENCE OF OPERATIONS

9. ALL EQUIPMENT SYMBOLS ARE SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE TO THEIR INTENDED LOCATION. CONTRACTOR WILL COORDINATE IN THE FIELD THE PROPER INSTALLATION OF ALL EQUIPMENT, DEVICES, CONTROLS AND CABLING. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL REQUIREMENTS.

10. DRAWINGS FOR THIS WORK ARE DIAGRAMMATIC AND INTENDED TO CONVEY THE EXTENT, GENERAL ARRANGEMENT AND LOCATIONS OF THE WORK. BECAUSE OF THE SCALE OF THE DRAWINGS, CERTAIN BASIC ITEMS SUCH AS ACCESS PANELS, CONDUITS, CABINET SIZES, PENETRATION SLEEVES, PULL BOXES, BACKBOXES AND JUNCTION BOXES MAY NOT BE SHOWN. INCLUDE ALL ITEMS WHERE REQUIRED BY CODE, MANUFACTURER AND RELATED SPECIFICATION SECTIONS FOR THE PROPER INSTALLATION OF ALL WORK.

11. THE SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 760 OF THE 2023 NATIONAL ELECTRIC CODE. ALL FIRE ALARM CABLE MUST BE INSTALLED IN DEDICATED CONDUITS IN ACCORDANCE WITH THE CABLING REQUIREMENTS SPECIFIED BY THE CONTRACT DOCUMENTS.

12. FIRE ALARM DEVICE MOUNTING HEIGHTS WILL COMPLY WITH ALL ANSI 117, NFPA 72 AND IBC REQUIREMENTS, AT THE MINIMUM INSTALL ALL DEVICES AS FOLLOWS:
   A. MANUAL PULL STATION: 48" A.F.F. TO CENTER; 5'-0" MAXIMUM FROM EXIT DOORS.
   B. AUDIBLE/VISUAL: 7'-0" A.F.F. TO BOTTOM OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.
   C. VISUAL: 7'-0" A.F.F. TO BOTTOM OF STROBE LENS OR 8" BELOW CEILING TO CENTER OF STROBE LENS.
   D. EMERGENCY TELEPHONE JACKS: 48" A.F.F. TO CENTER.

13. COORDINATE WITH ALL TRADES AND INTEGRATORS ALL CONDITIONS RELATED TO THE INSTALLATION OF ALL DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE TRADES AND SYSTEM INTEGRATORS ALL INSTALLATION REQUIREMENTS IMPACTING THE PLACEMENT OF ALL SYSTEM COMPONENTS TO THE SATISFACTION OF ALL CONCERNED TRADES.

14. ALL EQUIPMENT CLEARANCES WILL BE IN ACCORDANCE WITH NFPA 70 REQUIREMENTS. ARRANGE EQUIPMENT TO FACILITATE UNRESTRICTED ACCESS FOR MAINTENANCE AND SERVICE AROUND ALL EQUIPMENT, COMPONENTS AND/OR CABLE TERMINATIONS.

15. COORDINATE EXACT LOCATION(S) OF ALL CEILING MOUNTED CABLE, CONDUITS, EQUIPMENT AND/OR DEVICES WITH ALL ARCHITECTURAL PLANS, REFLECTED CEILING PLANS AND AFFECTED TRADES PRIOR TO INSTALLATION.

16. WHERE EQUIPMENT AND/OR JUNCTION BOXES ARE INSTALLED ABOVE FINISHED CEILINGS, THE CONTRACTOR SHALL PROVIDE ACCESS HATCHES LISTED FOR THE INTENDED APPLICATION. ACCESS HATCHES SHALL BE LOCATED SO THAT SERVICE ACCESS TO THE EQUIPMENT AND/OR JUNCTION BOXES IS UNIMPEDED.

17. THE EXTENSION OF THE EXISTING EDWARDS EST-4 FIRE ALARM SYSTEM SHALL BE INSTALLED IN DEDICATED CONDUITS. ALL CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 AND THE CONTRACT DOCUMENTS. ALL CONDUITS SHALL BE SIZED IN ACCORDANCE WITH NFPA 70 AND WILL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

18. ALL CONDUITS/RACEWAYS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPERING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION. FURNISH AND INSTALL TAMPER-RESISTANT INSTALLATION UTILIZING "TORX WITH PEG" SECURITY-FASTENING DEVICES FOR ALL CONDUITS/RACEWAYS, EQUIPMENT, DEVICES AND APPURTENANCES IN ALL AREAS ACCESSIBLE TO THE GENERAL POPULATION AND/OR AREAS SUBJECTED TO TAMPERING OR VANDALISM. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

19. ALL SYSTEM WIRING AND EQUIPMENT INSTALLATIONS SHALL BE IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES AND BY ALL IEEE, EIA, NEC AND MANUFACTURER'S REQUIREMENTS. WIRING SHALL COMPLY WITH ALL STATE AND LOCAL ELECTRICAL CODES. ALL WIRING SHALL BE TEST FREE FROM ALL GROUNDS, SHORTS AND EMI.

20. NO A.C. CARRYING CONDUCTORS ARE PERMITTED TO SHARE RACEWAYS WITH ANY FIRE ALARM INITIATING AND/OR NOTIFICATION CIRCUITS.

21. ALL WIRES AND CIRCUITS SHALL BE METERED TO ENSURE THEY ARE FREE OF ANY GROUNDS AND SHORTS PRIOR TO COMMISSIONING OF THE SYSTEM.

22. ALL AUXILIARY ALARM RELAYS SHALL BE INSTALLED WITHIN 3 FEET OF THE EQUIPMENT TO BE CONTROLLED IN ACCORDANCE WITH ALL NFPA 72 REQUIREMENTS.

23. ALL FIRE ALARM DEVICES AND EQUIPMENT SHALL BE LABELED UNIQUE IDENTIFICATION NUMBER. ALL NUMBERS SHALL CORRESPOND WITH NUMBERING SEQUENCE AS SUBMITTED ON THE PROJECT SHOP DRAWINGS. LABELS TO BE SIMILAR TO "BROTHER P-TOUCH" BLACK LETTERING ON WHITE BACKGROUND, SELF-ADHESIVE TAPE. ALL DEVICE LABELS SHALL BE INSTALLED PRIOR TO SYSTEM CHECKOUT.

24. ALL PENETRATIONS OF WALLS AND FLOORS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES.

25. REFER TO SPECIFICATION SECTIONS 260519 AND 283111 AS WELL AS ALL RELATED SPECIFICATION SECTION FOR PROJECT SUBMITTAL REQUIREMENTS AND ADDITIONAL INFORMATION.

26. ALL EQUIPMENT ENCLOSURES LOCATED OUTSIDE OR IN ALL AREAS WITH HIGH MOISTURE OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE NEMA 4X ENCLOSURES RATED FOR THAT APPLICATION.

27. ALL EQUIPMENT EXPOSED TO THE ENVIRONMENT OR INSTALLED IN PROXIMITY TO AREAS WITH HIGH MOISTURE, OR A RELATIVE HUMIDITY OF 75% OR GREATER SHALL BE PROVIDED WITH ENCLOSURES AND OR BACKBOXES RATED FOR THE ENVIRONMENTAL CONDITIONS.

28. STROBE INTENSITY OF ALL VISUAL NOTIFICATION APPLIANCES WILL BE IN ACCORDANCE WITH NFPA 72 AND UL 1971. STROBE CANDELA RATINGS SHALL BE PROVIDED IN ACCORDANCE WITH DEVICE LOCATIONS AND SHALL CONFORM TO ALL ICC/ANSI 117 AND NFPA 72 INSTALLATION REQUIREMENTS. CONTRACTOR SHALL PROVIDE THE REQUIRED CANDELA POWER AND LOCATE ALL VISUAL NOTIFICATION APPLIANCES AS REQUIRED TO MEET THE REQUIREMENTS OF ALL REFERENCED CODES AND STANDARDS.

29. ALL SMOKE AND HEAT DETECTORS SHALL BE MOUNTED TO FINISHED CEILING AND/OR DECKING, UNLESS NOTED OTHERWISE. DETECTORS SHALL NOT BE INSTALLED ON BOTTOM OF OPEN WEB JOISTS OR ON BEAMS EXCEEDING 12 INCHES DEPTH FROM FINISHED CEILING OR DECK. REFER TO NFPA 72 FOR ALL INITIATING DEVICE INSTALLATION REQUIREMENTS. PROVIDE DETECTORS IN SUFFICIENT QUANTITY TO COMPLY WITH ALL NFPA 72 REQUIREMENTS BASED ON CEILING CONDITIONS AND PROTECTED SPACE REQUIREMENTS.

30. PROTECTIVE ANTI-DUST COVERS SHALL BE INSTALLED AND MAINTAINED ON ALL SYSTEM SMOKE DETECTORS UNTIL FINAL ACCEPTANCE BY THE AUTHORITIES HAVING JURISDICTION.

31. SMOKE DETECTORS SHALL NOT BE INSTALLED LESS THAN 3 FEET FROM ANY HVAC SUPPLY OR RETURN AIR REGISTER AND A MINIMUM OF 1 FOOT AWAY FROM ALL LIGHTING FIXTURES

32. PROVIDE APPROVED EARTH GROUND AT FIRE ALARM CONTROL PANEL CHASSIS. A CONDUIT GROUNDING TO BUILDING STEEL SHALL NOT BE CONSIDERED AN ACCEPTABLE METHODOLOGY FOR GROUNDING OF FIRE ALARM CONTROL PANEL.

33. ALL AC ELECTRICAL CIRCUITS FEEDING THE FIRE ALARM CONTROL EQUIPMENT SHALL BE EQUIPPED WITH DEDICATED CIRCUIT BREAKER LOCKOUT DEVICE IN ACCORDANCE WITH NFPA 72.

34. THE CONTRACTOR SHALL METER ALL WIRES AND CIRCUITS TO ENSURE THEY ARE FREE OF ANY GROUNDS AND SHORTS PRIOR TO COMMISSIONING OF THE SYSTEM.

35. ALL AUXILIARY ALARM RELAYS MUST BE INSTALLED WITHIN 3 FEET OF THE EQUIPMENT TO BE CONTROLLED IN ACCORDANCE WITH ALL NFPA 72 REQUIREMENTS.

36. REFER TO ALL RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

37. THE FIRE ALARM EQUIPMENT PROVIDER SHALL EMPLOY TECHNICIANS ON SITE TO PROVIDE SYSTEM DESIGN, CERTIFICATION AND PROGRAMMING AND TESTING IN ACCORDANCE WITH NFPA 72 REQUIREMENTS AND SHALL BE FULLY LICENSED TO PROVIDE FIRE ALARM SYSTEMS WITHIN THE MUNICIPALITY OF THE PROJECT AND SHALL BE NICET CERTIFIED (MINIMUM LEVEL III FIRE ALARM TECHNOLOGY).

38. THE SERVICE OF A COMPETENT, FACTORY-TRAINED ENGINEER OR NICET LEVEL III TECHNICIAN AUTHORIZED BY THE EQUIPMENT MANUFACTURER AND LICENSED BY THE STATE SHALL BE PROVIDED TO TECHNICALLY SUPERVISE INSTALLATION AND PARTICIPATE DURING INITIAL SYSTEM START-UP, FINAL TESTING AND ASSIST THE AUTHORITY HAVING JURISDICTION DURING FINAL ACCEPTANCE TESTING.

39. SHOP DRAWINGS SHALL BE SUBMITTED FOR PERMITS.

FIRE ALARM SYSTEM ABBREVIATIONS:

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ACC	ACCENT
ADJ	ADJUSTABLE
AC	ALTERNATING CURRENT
AL	ALUMINUM
ADA	AMERICAN DISABILITIES ACT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
AM	AMMETER
A/AMP	AMPERE
AMP	AMPERE
APPROX	APPROXIMATELLY
ASY	ASYMETRIC
ACR	ATTENUATION/CROSSTALK RATIO
ATS	AUTOMATIC TRANSFER SWITCH
BATT	BATTERY
BFC	BELOW FINISHED CEILING
BLK	BLACK
BRKT	BRACKET
BKR	BREAKER
BLDG	BUILDING
CAB	CABINET
CATV	CABLE TELEVISION
cd	CANDELA
CLG	CEILING
CIR/CKT	CIRCUIT
CB	CIRCUIT BREAKER
CLR	CLEAR
CCTV	CLOSED CIRCUIT TELEVISION
COL	COLUMN
COMM	COMMUNICATION
C	CONDUIT
CPSI	CONFIDENTIAL AND PRIVILEGED SECURITY INFORMATION
CW	COOL WHITE
CU	COPPER
CLF	CURRENT LIMITING FUSE
CT	CURRENT TRANSFORMER
dB	DECIBEL
DED	DEDICATED
DIA	DIAMETER
DC	DIRECT CURRENT
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE-THROW
DNLT	DOWNLIGHT
DWG	DRAWING
DE	DUAL ELEMENT
EA	EACH
EWC	ELECTRIC WATER COOLER
ELEC	ELECTRICAL
EC	ELECTRICAL CONTRACTOR
EO	ELECTRICALLY OPERATED
EIA	ELECTRONICS INDUSTRY ASSOCIATION
ELEV	ELEVATOR
E	EMERGENCY
ESB	ENERGY SAVING BALLAST
EQIP	EQUIPMENT
EF	EXHAUST FAN
(E)	EXISTING TO REMAIN
XP	EXPLOSION PROOF
FEXT	FAR END CROSSTALK
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC ANNUNCIATOR PANEL
FIXT	FIXTURE
FL	FLOOR
FLOUR	FLUORESCENT
FT	FOOTCANDLES
FLA	FULL LOAD AMPERES
FVNR	FULL VOLTAGE NON-REVERSING
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GND/G	GROUND
GFI	GROUND FAULT INTERRUPTER
HH	HAND HOLE
HVAC	HEATING VENTILATING AIR CONDITIONING
HZ	HERTZ
HID	HIGH INTENSITY DISCHARGE
HPF	HIGH POWER FACTOR
HV	HIGH VOLTAGE
HP	HORSEPOWER
INCAN	INCANDESCENT
IPS	INVERTER POWER SUPPLY
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVAR	KILOVAR (REACTANCE)
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR METER
LT	LIGHT
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LA	LIGHTNING ARRESTER
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MH	MANHOLE
MTS	MANUAL TRANSFER SWITCH
MFR	MANUFACTURER
MATV	MASTER ANTENNA TELEVISION
MC	MECHANICAL CONTRACTOR
MV	MEDIUM VOLTAGE
MH	METAL HALIDE
MCC	METAL-CLAD CABLE
MM	MILLIMETER
MV	MILLIVOLT
MISC	MISCELLANEOUS
MCP	MOTOR CIRCUIT PROTECTOR
MCC	MOTOR CONTROL CENTER
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MFR ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NEXT	NEAR END CROSSTALK
NL	NIGHT LIGHT
NO	NORMALLY OPENED
N/A	NOT AVAILABLE/NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVERHEAD
OL	OVERLOAD HEATER ELEMENT
PNL	PANEL
PEW	PEWTER
PLY	PLYWOOD
P	POLE
PVC	POLYVINYL CHORIDE
PT	POTENTIAL TRANSFORMER
PP	POWER PANEL
PB	PULL BOX
RS	RAPID START
RECPT	RECEPTACLE
REFL	REFLECTOR
(RE)	RELOCATE EXISTING
(R)	REMOVE
REQ	REQUIRED
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RIO	ROUGH IN ONLY
SCH	SCHEDULE
SPST	SINGLE POLE DOUBLE THROW
SPDT	SINGLE POLE SINGLE THROW
SSB	SOLID STATE BALLAST
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TSB	TECHNICAL SERVICE BULLETIN
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TELE	TELEPHONE
XFMR	TRANSFORMER
TT	TWIN TUBE
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORIES
UPS	UNINTERRUPTABLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
VP	VAPOR PROOF
V	VOLT
VM	VOLTMETER
WITHIN	W/I
WITHOUT	W/O
WW	WARM WHITE
W	WATT
WP	WEATHERPROOF
W/	WITH

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS		REVISIONS		
NUMBER	TITLE	DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FIRE ALARM NOTES AND ABBREVIATIONS

SCALE	DRAWING NO.	SHEET NO.
1/16" = 1'-0"	B09-EF-002	152 OF 183

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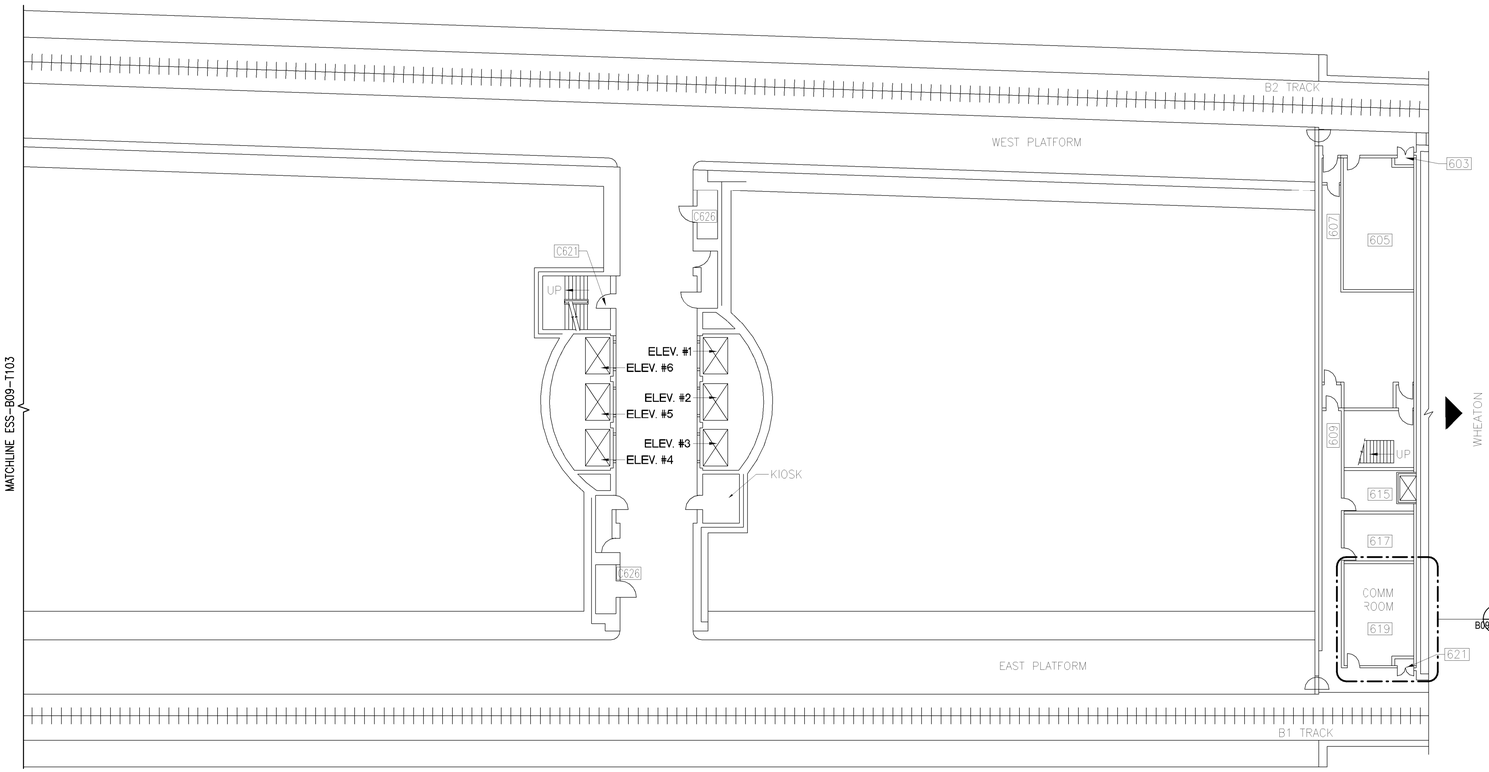
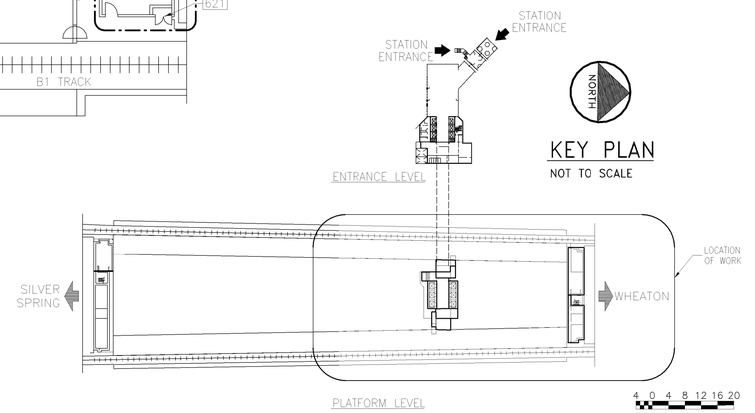
SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM SCHEDULES AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWING EF-201 FOR AN ENLARGED PLAN OF THE EXISTING COMM ROOM-619 AND EQUIPMENT LAYOUTS.





1 B09-EF-101 FIRE ALARM - FLOOR PLAN - EXISTING PLATFORM LEVEL - NORTH
1/16" = 1'-0"

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED		DATE
DRAWN		DATE
CHECKED		DATE
APPROVED		DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

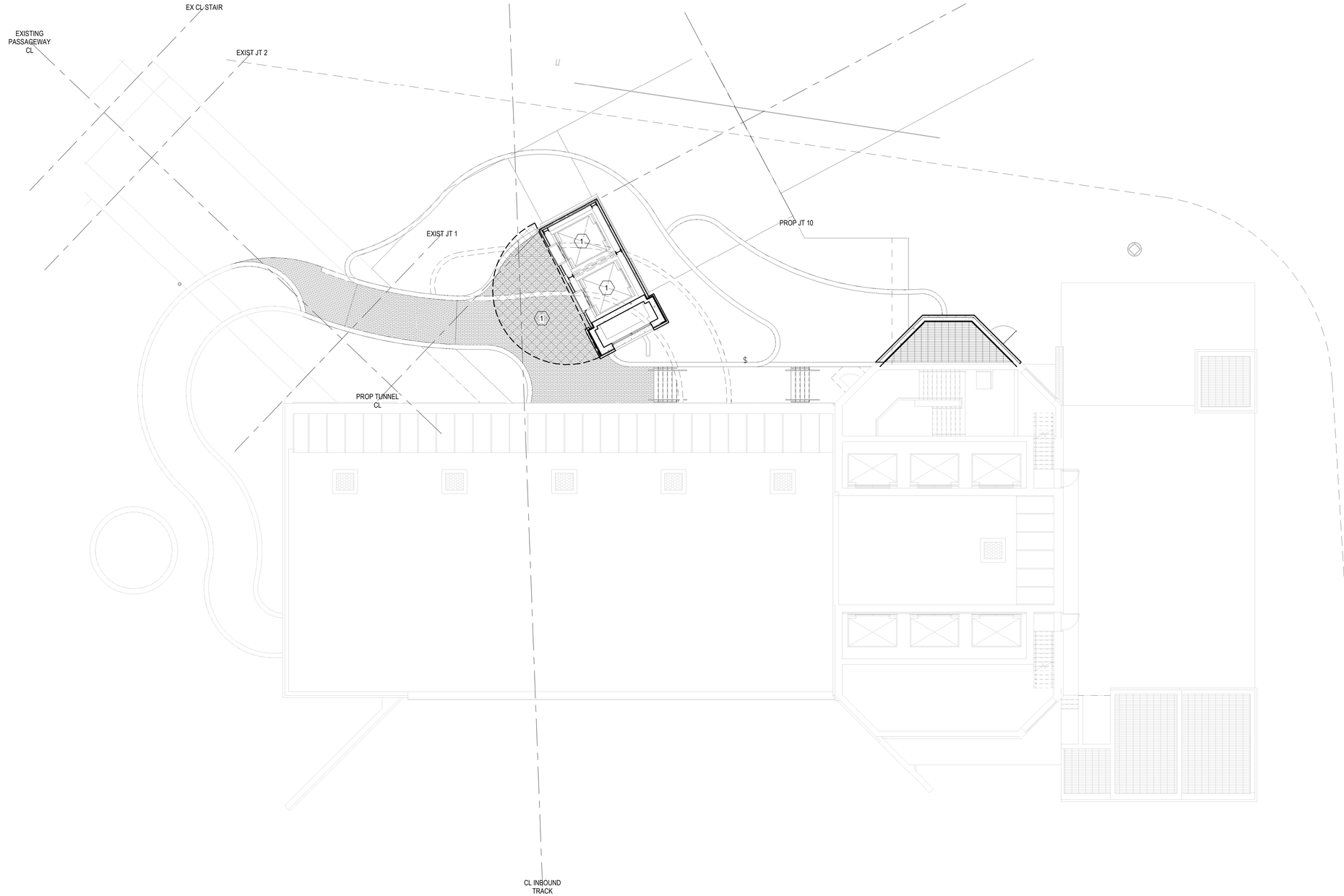
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FLOOR PLAN - EXISTING PLATFORM LEVEL - NORTH

SCALE	DRAWING NO.	SHEET NO.
1/16" = 1'-0"	B09-EF-101	153 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt



1 FLOOR PLAN - STREET LEVEL - EAST - FIRE ALARM
B09-EF-102 1" = 10'-0"

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM SCHEDULES AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS EF-202 AND EF-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO FIRE AND SMOKE DETECTORS , STROBES AND SPEAKER/STROBES, MONITORING AND CONTROL MODULES, CONDUIT AND CABLING, POWER AND SUPPORTING HARDWARE.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FLOOR PLAN - STREET LEVEL - EAST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-EF-102	154 OF 183

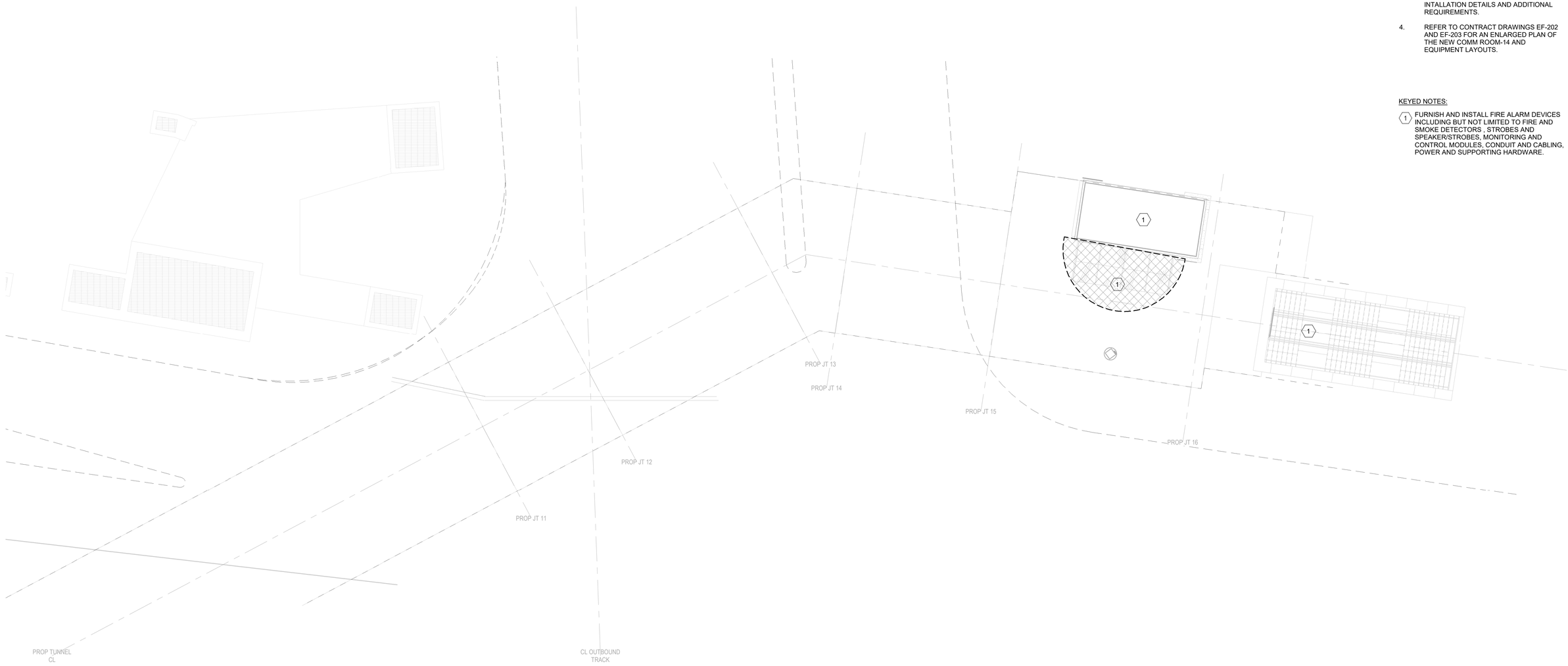
Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM SCHEDULES AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS EF-202 AND EF-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO FIRE AND SMOKE DETECTORS , STROBES AND SPEAKER/STROBES, MONITORING AND CONTROL MODULES, CONDUIT AND CABLING, POWER AND SUPPORTING HARDWARE.



1 B09-EF-103 FLOOR PLAN - STREET LEVEL - WEST - FIRE ALARM
1" = 10'-0"

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FLOOR PLAN - STREET LEVEL - WEST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-EF-103	155 OF 183

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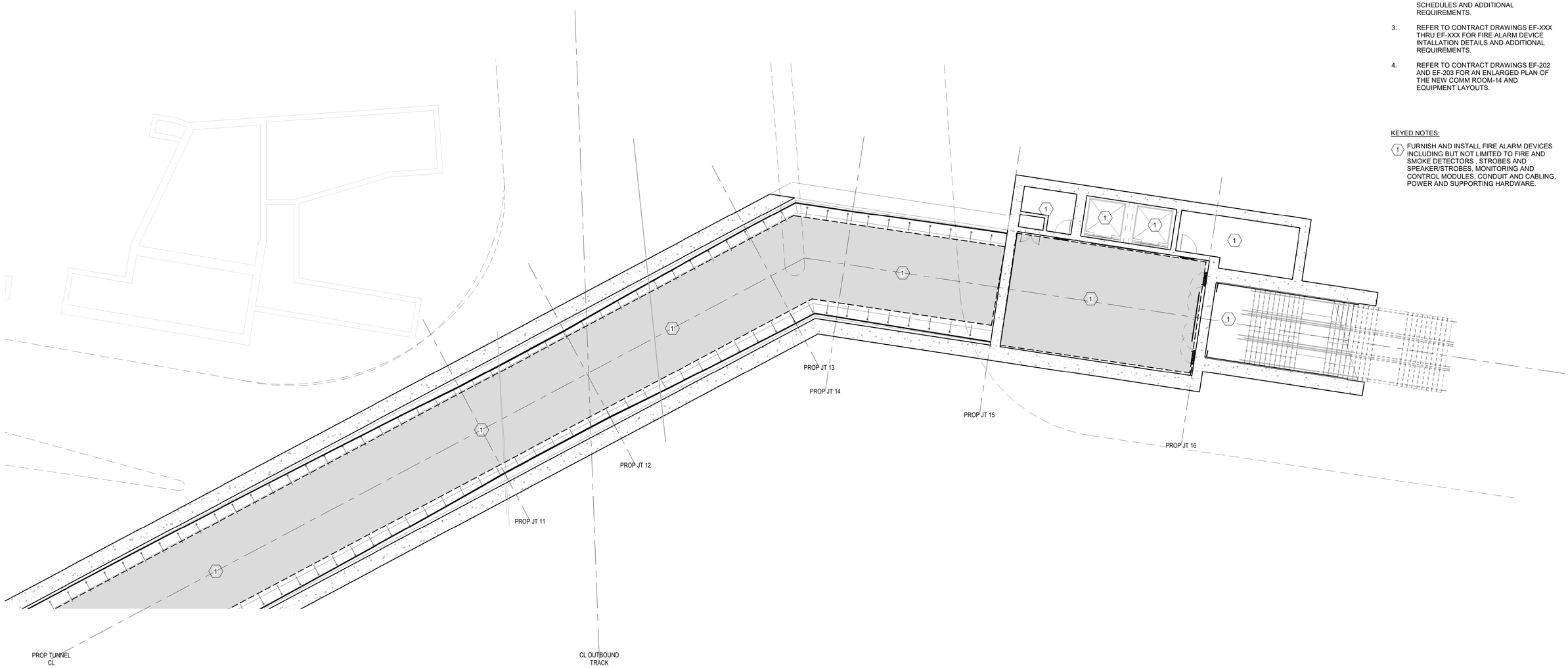
SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM SCHEDULES AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS EF-202 AND EF-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO FIRE AND SMOKE DETECTORS , STROBES AND SPEAKER/STROBES, MONITORING AND CONTROL MODULES, CONDUIT AND CABLING, POWER AND SUPPORTING HARDWARE.



1 B09-EF-104 FLOOR PLAN - TUNNEL LEVEL - EAST - INSTALLATION - FIRE ALARM
1" = 10'-0"

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS			
DRAWN	DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
CHECKED	DATE						
APPROVED	DATE						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FLOOR PLAN - TUNNEL LEVEL - EAST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-EF-104	156 OF 183

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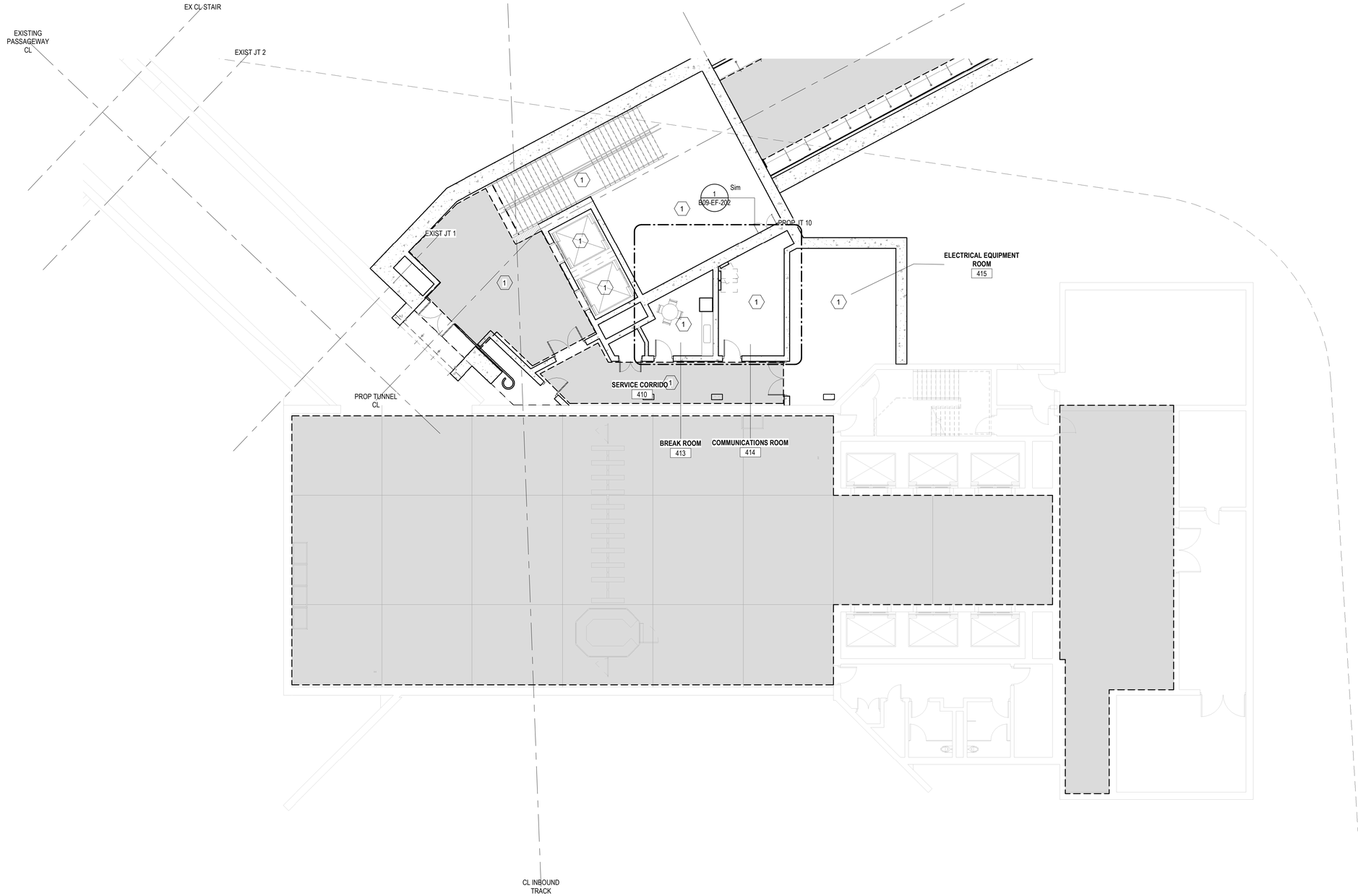

1 FLOOR PLAN - TUNNEL LEVEL - WEST- INSTALLATION - FIRE ALARM
B09-EF-105 1" = 10'-0"

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM SCHEDULES AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS EF-XXX THRU EF-XXX FOR FIRE ALARM DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS EF-202 AND EF-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO FIRE AND SMOKE DETECTORS , STROBES AND SPEAKER/STROBES, MONITORING AND CONTROL MODULES, CONDUIT AND CABLING, POWER AND SUPPORTING HARDWARE.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FLOOR PLAN - TUNNEL LEVEL - WEST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-EF-105	157 OF 183

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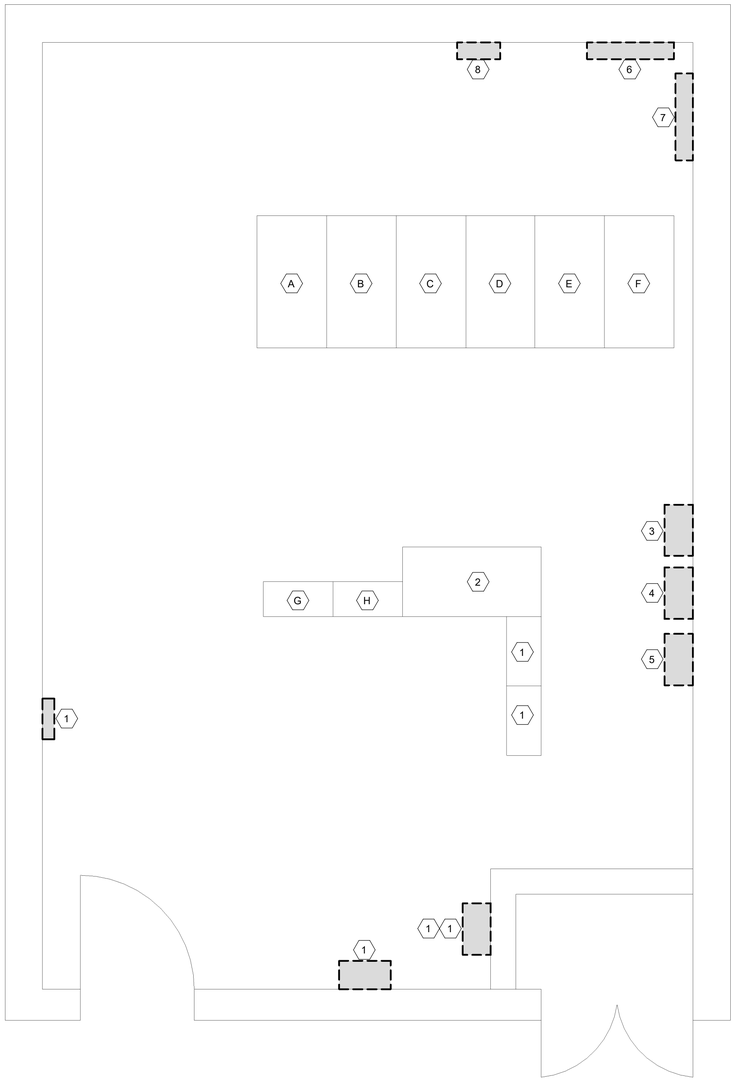


1 FIRE ALARM - EXISTING COMM ROOM-619 - ENLARGED ROOM PLAN Copy 1
B09-EF-201 1/2" = 1'-0"

#	DESCRIPTION - MISCELLANEOUS
1	EXISTING FIPLEX RADIO EQUIPMENT
2	EXISTING FIPLEX RADIO EQUIPMENT CABINET
3	EXISTING CRCS STATION BDA
4	EXISTING WMATA MARS STATION DR
5	EXISTING MC STATION DR
6	EXISTING EDWARDS EST-3 FACP
7	EXISTING FACP BATTERIES
8	EXISTING FIRE ALARM RELAY CABINET

#	DESCRIPTION - RACKS
A	RACK A - EXISTING CCTV STORAGE EQUIPMENT
B	RACK B - EXISTING FOS EQUIPMENT
C	RACK C - EXISTING CTS EQUIPMENT
D	RACK D - EXISTING TELEPHONE EQUIPMENT
E	RACK E - EXISTING PERS / APAAS EQUIPMENT
F	RACK F - EXISTING PAS EQUIPMENT
G	RACK G - EXISTING FIBER TERMINATION EQUIPMENT
H	RACK H - EXISTING CTV 2 EQUIPMENT

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. THE EXISTING FIRE ALARM SYSTEM IS BASED ON THE EDWARDS EST-4 FACP WITH VOICE EVACUATION. THE NEW EST-4 FACP LOCATED IN THE NEW COMM ROOM-14 WILL BE CONNECTED TO THIS EXISTING FACP VIA ETHERNET CONNECTION.
3. REFER TO CONTRACT DRAWINGS EF-202 AND EF-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.
4. REFER TO CONTRACT DRAWING EF-301 FOR THE FIRE ALARM RISER DIAGRAM AND ADDITIONAL INSTALLATION REQUIREMENTS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

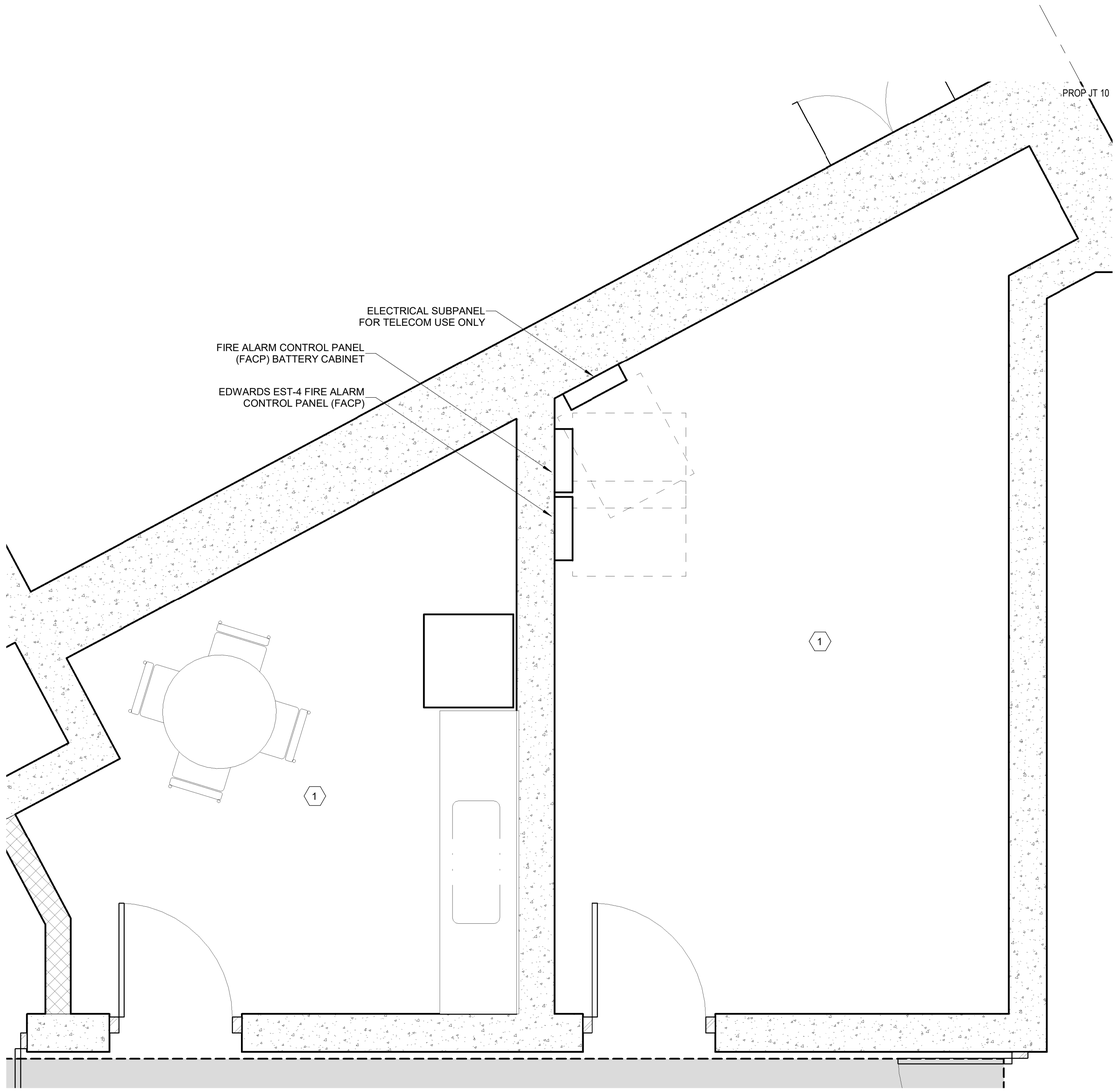
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
EXISTING TELECOMMUNICATIONS ROOM-619 - ENLARGED PLAN

SCALE 1/2" = 1'-0"
B09-EF-201
SHEET NO. 158 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 B09-EF-202 ENLARGED PLAN - COMMUNICATIONS ROOM 5
1/2" = 1'-0"

SHEET NOTES:

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS EF-001 AND EF-002.
2. THE NEW FIRE ALARM SYSTEM IS BASED ON THE EDWARDS EST-4 FACP WITH VOICE EVACUATION. THE NEW EST-4 FACP WILL BE CONNECTED TO THIS EXISTING FACP VIA ETHERNET CONNECTION LOCATED IN THE EXISTING COMM ROOM-619.
3. REFER TO CONTRACT DRAWING EF-301 FOR THE FIRE ALARM RISER DIAGRAM AND ADDITIONAL INSTALLATION REQUIREMENTS.
4. CABINET LAYOUTS ARE DIAGRAMMATIC IN NATURE AND IS PROVIDED TO CONVEY THE DESIGN INTENT. CONTRACTOR SHALL VERIFIED ALL FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY REMOVALS OR INSTALLATIONS.
5. FURNISH AND INSTALL ALL CONDUITS AND WIRING, POWER, CONNECTING AND MOUNTING HARDWARE, AND JUNCTION/PULL BOXES AND ALL APPURTENANCES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
6. FURNISH AND INSTALL ALL COMMUNICATIONS PATHWAYS, JUNCTION BOXES, PULLBOXES, FIBER OPTIC AND COPPER CABLING, TERMINATING HARDWARE AS INDICATED ON THE CONTRACT DRAWINGS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
NEW TELECOMMUNICATIONS ROOM-14 - ENLARGED PLAN

SCALE	DRAWING NO.	SHEET NO.
1/2" = 1'-0"	B09-EF-202	159 OF 183

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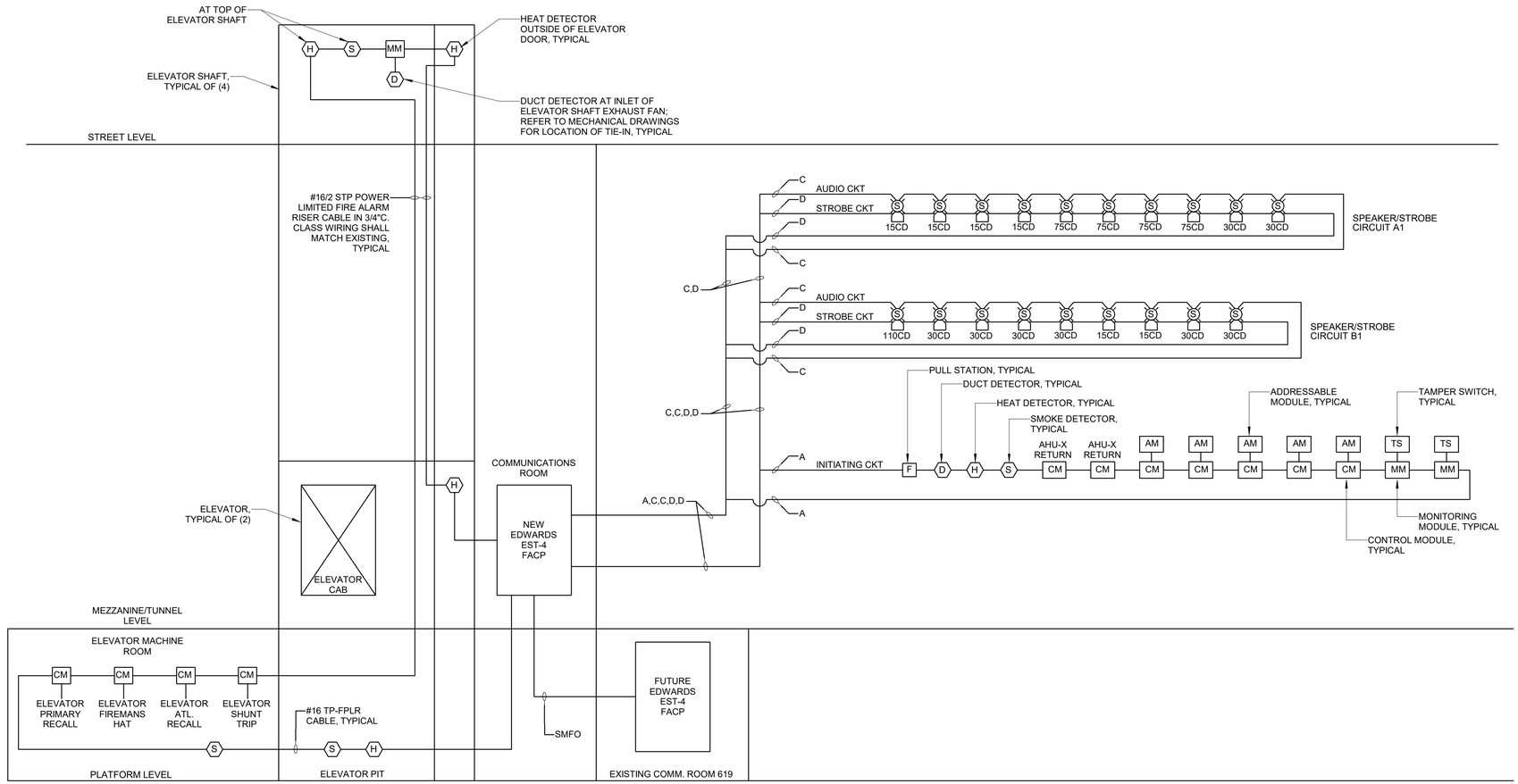
STANDARD CABLE LEGEND

A = #14 AWG TWISTED SHIELDED PAIR FPL CABLE (DATA)(WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
C = #14 AWG TWISTED SHIELDED PAIR FPL CABLE (HORN)(WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
D = #14 AWG TWISTED PAIR FPLP CABLE (STROBE)(WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
E = 2 #14 AWG TWISTED SHIELDED PAIR FPL CABLE (WARDEN STATION/FIRE FIGHTER PHONE) INSTALLED IN CONDUIT (WITH FDNY RED OUTER JACKET)
F = #14 AWG TWISTED SHIELDED PAIR FPL CABLE (24 VDC POWER) (WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
G = #10 AWG - 1/C GREEN INSULATION (GROUND)
H = #10 AWG - 2/C FPL (120 VAC POWER) INSTALLED IN CONDUIT
J = #14 AWG - TWISTED SHIELDED PAIR FPL CABLE (MONITORING)(WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
X = NETWORK DATA WIRE #14AWG TWISTED PAIR FPL CABLE (WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
Y = NETWORK VOICE COMMUNICATION WIRE TWO #14 AWG TWISTED SHIELDED PAIR FPL CABLE (WITH FDNY RED OUTER JACKET) INSTALLED IN CONDUIT
Z = #14 AWG TWISTED SHIELDED PAIR FPLP CABLE (EIA-485 SIGNAL)(WITH FDNY RED OUTER JACKET)

ALL WIRES TO BE RED, WMATA APPROVED MINIMUM 200°C

NOTES:

1. REFER TO DRAWINGS T.004 AND T.005 FOR GENERAL NOTES, MANUFACTURER LIST, FIRE ALARM LEGEND AND ABBREVIATIONS.
2. REFER TO DRAWINGS T.101 AND T.102 FOR FIRE ALARM DEVICE LAYOUT ON THE FLOOR PLANS.
3. FIRE ALARM RISER DIAGRAM IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITIES OF ALL INITIATING AND NOTIFICATION DEVICES. ALL CONTROL, ANNUNCIATION AND MONITOR REQUIREMENTS SHALL BE PROVIDED AS INDICATED ON RISER DIAGRAM IN ORDER TO PERFORM ALL FUNCTIONS AS SPECIFIED AND/OR REQUIRED.



NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
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REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FIRE ALARM RISER DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-EF-301	160 OF 183

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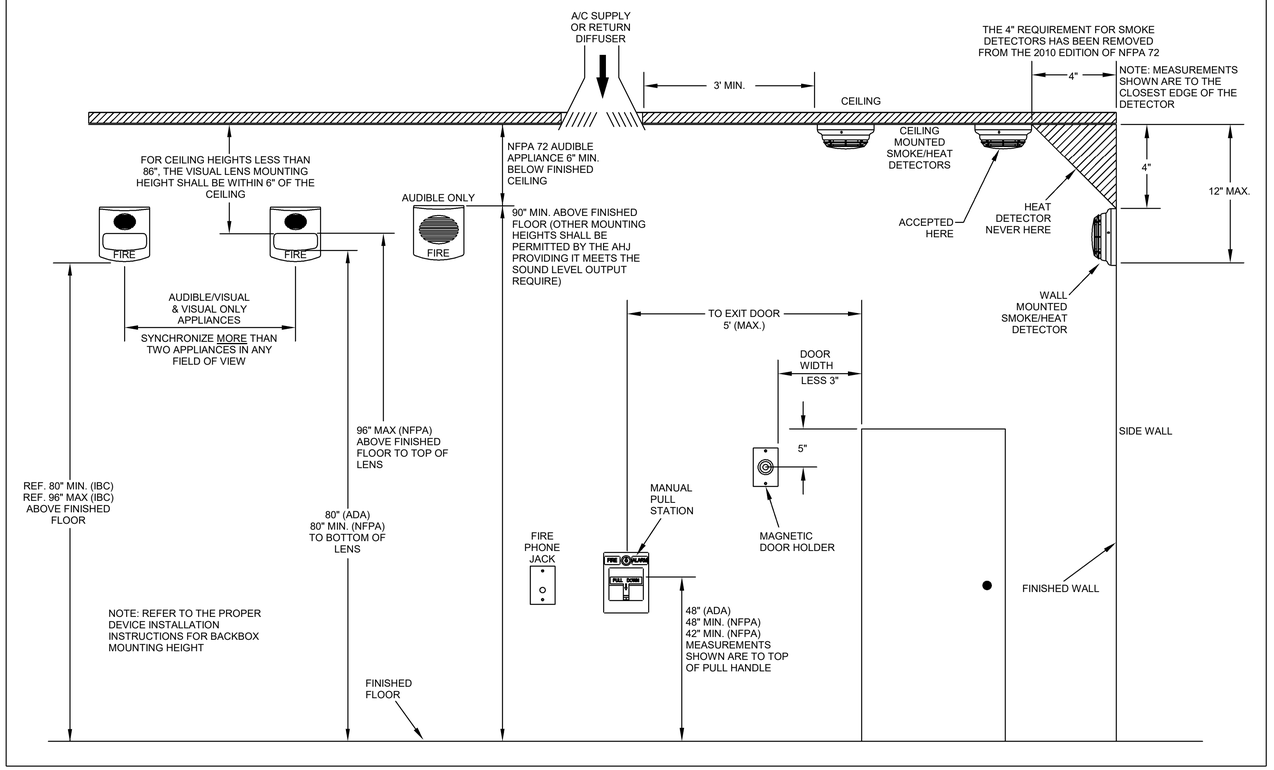
DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)



FIRE ALARM DEVICE MOUNTING LOCATIONS

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS	
NUMBER	TITLE

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WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FIRE ALARM INSTALLATION DETAILS -1-

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-EF-401	161 OF 183

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FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX		SYSTEM OUTPUTS												
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL INDICATOR	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	ACTUATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	UNLOCK EXITS AND CONTROL DOOR
SYSTEM INPUTS	FIRE ALARM SYSTEM AC POWER FAILURE			X	X							X		
	FIRE ALARM SYSTEM LOW BATTERY					X	X						X	
	OPEN CIRCUIT					X	X						X	
	GROUND FAULT					X	X						X	
	NOTIFICATION APPLIANCE CIRCUIT SHORT					X	X						X	
	BUILDING MANUAL PULL STATIONS	X	X					X	X	X	X		X	X
	CORRIDOR SMOKE DETECTORS													
	AREA SMOKE DETECTORS	X	X					X	X	X	X		X	X
	HVAC AIR DUCT SMOKE DETECTORS			X	X			X				X		
	AREA HEAT DETECTORS	X	X					X	X	X	X		X	X
	SPRINKLER TAMPER SWITCH	X		X	X			X	X	X	X			
	SPRINKLER WATER FLOW IN BUILDING	X	X					X	X	X	X		X	X

1 B09-EF-501 FIRE ALARM SEQUENCE OF OPERATIONS
NOT TO SCALE

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
FIRE ALARM
FIRE ALARM SQUENCE OF OPERATIONS

SCALE	DRAWING NO.	SHEET NO.
NOT TO SCALE	B09-EF-501	162 OF 183

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ELECTRONICS AND SECURITY SYMBOLS LEGEND

- FIXED CCTV CAMERA - TYPICAL
  - #### = DENOTES CAMERA NUMBER
  - NOTE: REFER TO CAMERA SCHEDULES ES-702 AND ES703 FOR CAMERA MODEL, TYPE, MOUNTING, POWER REQUIREMENTS AND ETC.
- PAN-TILT-ZOOM (PTZ) CAMERA
  - #### = DENOTES CAMERA NUMBER
  - NOTE: REFER TO CAMERA SCHEDULES ES-702 AND ES703 FOR CAMERA MODEL, TYPE, MOUNTING, POWER REQUIREMENTS AND ETC.
- 180/360 DEGREE CAMERA
  - #### = DENOTES CAMERA NUMBER
  - NOTE: REFER TO CAMERA SCHEDULES ES-702 AND ES703 FOR CAMERA MODEL, TYPE, MOUNTING, POWER REQUIREMENTS AND ETC.
- (S) CEILING MOUNTED PUBLIC ANNOUNCEMENT SPEAKER
- (A) CEILING MOUNTED AMBIENT NOISE SENSOR MICROPHONE
- UPS UNINTERRUPTIBLE POWER SUPPLY
- JB JUNCTION BOX
- (X) KEYED NOTE
- X-## TELE/DATA OUTLET
  - X = TYPE
    - A = GENERAL-USE DATA OUTLET @ 18"AFF
    - TV = WALL MONITOR/TV @ 6"BFC
  - ## = DENOTES # OF DATA JACKS
- X-## DATA OUTLET
  - X = TYPE
    - A = GENERAL-USE DATA OUTLET @ 18"AFF
    - TV = WALL MONITOR/TV @ 6"BFC
  - ## = DENOTES # OF DATA JACKS
- VOICE OUTLET
- ECB / EM EMERGENCY CALL BOX
- UAI USER ACCESS INTERFACE (A/V-PA)
- TMGB TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
- CR CARD READER
- FULL HEIGHT FLOOR CABINET
- ACCESS CONTROLLED ENTRYWAY/DOOR
  - UNSECURED OR UNPAID SIDE
  - SECURED OR PAID SIDE
- 36"Wx4"H CABLE TRAY

CELLULAR AND PUBLIC SAFETY DAS SYMBOLS LEGEND

- BELOW CEILING TYPE CELLULAR ANTENNA
- PANEL TYPE CELLULAR ANTENNA
- SURFACE MOUNTED MIMO OMNI RADIO ANTENNA
- PANEL TYPE RADIO ANTENNA
- 2-WAY POWER DIVIDER
- 3-WAY POWER DIVIDER
- 4-WAY POWER DIVIDER
- 6 dB DIRECTIONAL COUPLER
- 8 dB DIRECTIONAL COUPLER
- 10 dB DIRECTIONAL COUPLER
- ——— - LCF78-50JA (CELLFLEX - 7/8" LOW-LOSS FOAM DIELECTRIC COAXIAL CABLE)
- – – – – – – – – – – – – – - ICA12-50JPL (PLENUM RATED LOW-LOSS COAXIAL CABLE 1/2")
- ---------- - INTERCONNECT JUMPER
- – – – – – – – – – – – – – - P2RFC-2225-39 (1M - SMA MALE RIGHT-ANGLE TO 7-16 DIN MALE; 1/4" SUPER FLEXIBLE TIMES MICROWAVE TFT-402TM BRAIDED COAX CABLE)
- ——— - OPTICAL CABLE, SINGLE MODE
- ——— - 7M7ML 12-060FFP (JUMPER CABLE - 6 FEET - LCF12-50 - 7-16 DIN-MALE / 7-16 DIN MALE)
- — — — — — — - 7MNML 12-060FFP (JUMPER CABLE - 6 FEET - LCF12-50 - 7-16 DIN MALE / N MALE)

CELLULAR DAS DESIGNATIONS

XXXX-XX-XXX
- EQUIPMENT TYPE:
  - A - ANTENNA
  - S - SPLITTER
- EQUIPMENT IDENTIFICATION (00 THROUGH 99)
- ANTENNA TYPE:
  - C - CEILING MOUNT
  - P - PANEL TYPE
- LEVEL TYPE AND FLOOR:
  - STL1 - STREET LEVEL 1
  - TNL2 - TUNNEL LEVEL 2
  - MZL3 - MEZZANINE LEVEL 3
- AREA OF EQUIPMENT:
  - MB - MAIN BUILDING
  - TB - TUNNEL BUILDING

PUBLIC SAFETY DAS DESIGNATIONS

XXXX-XX-XXX
- EQUIPMENT TYPE:
  - A - ANTENNA
  - S - SPLITTER
- EQUIPMENT IDENTIFICATION (00 THROUGH 99)
- LEVEL TYPE AND FLOOR:
  - STL1 - STREET LEVEL 1
  - TNL2 - TUNNEL LEVEL 2
  - MZL3 - MEZZANINE LEVEL 3
- MOUNTING ARRANGEMENT:
  - MB - PASSIVE DEVICES ABOVE CEILING
  - C - CEILING MOUNT
  - P - PANEL TYPE

STANDARD MOUNTING HEIGHTS

CEILING	SMOKE, HEAT DETECTORS, 360° SECURITY MOTION DETECTORS, CCTV SURVEILLANCE CAMERAS, PUBLIC ADDRESS, VOICE EVACUATION SPEAKERS, WIRELESS ACCESS POINTS, TV AND LCD PROJECTOR JACKS
8' A.F.G.	EXTERIOR VISUAL, AUDIO/VISUAL FIRE ALARM NOTIFICATION DEVICES, EXTERIOR PUBLIC ADDRESS SPEAKERS
7'-5" A.F.F.	CLOCKS, COMBINATION CLOCK/SPEAKERS, TRUMPET SPEAKERS
7'-0" A.F.F.	VISUAL FIRE ALARM NOTIFICATION, AUDIO/VISUAL FIRE ALARM NOTIFICATION, DEVICES, WALL MOUNTED SECURITY MOTION DETECTORS (CENTER OF DEVICE)
6" ABOVE DOOR JAMB	REQUEST TO EXIT MOTION DETECTORS
5'-6" A.F.F	TOP OF PLYWOOD TELEPHONE BACKBOARD
5'-4" A.F.F.	FIRE ALARM ANNUNCIATOR PANELS, FIRE FIGHTER CONTROL STATIONS, SECURITY ANNUNCIATOR PANELS
4'-8" A.F.G. MAX	PEDESTAL MOUNT INTERCOM PEDESTAL MOUNT CARD READER
4'-0" A.F.F.	"PS" TELEPHONE OUTLETS (TOP OF COIN SLOT),(WALL MOUNTED)-TELEPHONE INSTRUMENTS, INTERCOM STATIONS, FIRE FIGHTER TELEPHONE JACKS, FIRE ALARM MANUAL STATIONS, CARD READERS, MANUAL REQUEST TO EXIT DEVICES, WALL MOUNTED DURESS ALARM STATIONS, RESCUE ASSISTANCE PANELS, LCD KEYPADS (CENTER OF DEVICE)
UNDER COUNTER OR DESK	DURESS ALARM BUTTONS, DOOR RELEASE BUTTONS
1'-6" A.F.F.	DATA/TELEPHONE JACKS, LOW TELEVISION JACKS, MICROPHONE JACKS
0'-0"	IN FLOOR JUNCTION BOXES FLUSH TO FINISHED FLOOR (FF) (DATA, TELEPHONE, MICROPHONE, MEDIA)

NOTES:

1. IN MASONRY CONSTRUCTION THE MOUNTING HEIGHTS SHALL BE USED FOR REFERENCE TO THE NEAREST BLOCK OR BRICK COURSING.
2. THE ABOVE MOUNTING ELEVATIONS ARE TO CENTER OF DEVICE AND SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS AND/OR SPECIFICATIONS.
3. COORDINATE THE INSTALLATION AND MOUNTING ELEVATIONS OF ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES WITH ARCHITECT AND ALL AFFECTED TRADES PRIOR TO INSTALLATION. DOCUMENT ALL MOUNTING ELEVATIONS FOR ALL EQUIPMENT, DEVICES, CONTROLS AND APPURTENANCES AT THE TIME OF SHOP DRAWING SUBMITTAL.

ELECTRONICS ABBREVIATIONS

(D)	DEMOLITION
(E)	EXISTING TO REMAIN
(RE)	RELOCATE EXISTING
A	AMPERE
AC	ALTERNATING CURRENT
ACH	ABOVE COUNTER HEIGHT
ACS	ACCESS CONTROL SYSTEM
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FRAME
AFC	ABOVE FINISHED CEILING
AFD	ADJUSTABLE FREQUENCY DRIVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AT	AMPERE TRIP
AVPA	AUDIO VISUAL PAGING ANNOUNCEMENT
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL, INC
BLDG	BUILDING
BLR	BOILER
C	CONDUIT
CAT	CATEGORY
CB	CIRCUIT BREAKER
CCTV	CLOSED-CIRCUIT TELEVISION
CD	CANDELA
CFM	CUBIC FEET PER MINUTE
CIB	CONTROLLER INTERFACE BOX
CKT	CIRCUIT
CLG	CEILING
CND	CONDUIT
COMM	COMMUNICATION
CPSI	CONFIDENTIAL AND PRIVILEGED SECURITY INFORMATION
CU	COPPER
DAS	DISTRIBUTED ANTENNA SYSTEM
dB	DECIBEL
DIB	DOOR INTERFACE BOX
DISP.	DISPLAY
DP	DISTRIBUTION PANEL
DS	DISCONNECT SWITCH
EC	ELECTRICAL CONTRACTOR
ELP	EMERGENCY LIGHTING PANEL
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ERP	EMERGENCY RECEPTACLE PANEL
FLA	FULL LOAD AMPS
FLMC	FLEXIBLE LIQUIDTIGHT METALLIC CONDUIT
FMC	FLEXIBLE METALLIC CONDUIT
FSS	FIRE STANDPIPE SYSTEM
FWE	FURNISHED WITH EQUIPMENT
G,GND	GROUND
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER

ELECTRONICS ABBREVIATIONS

HP	HORSE POWER
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KVM	KEYBOARD, VIDEO, MOUSE
KW	KILOWATT
LCD	LIQUID CRYSTAL DISPLAY
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LP	LIGHTING PANEL
LPS	LOCKED POWER SUPPLY
LTG	LIGHTING
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCDOT	MONTGOMERY DEPARTMENT OF TRANSPORTATION
MTD	MOUNTED
NEC	NATIONAL ELETRICAL CODE
OPS	OPERATIONS
P	POLE
PACS	PHYSICAL ACCESS CONTROL SYSTEM
PDU	POWER DISTRIBUTION UNIT
PH	PHASE
PIDS	PASSENGER INFORMATION DISPLAY SYSTEM
PIR	PASSIVE INFRARED SENSOR
PM	PROJECT MANAGER
PP	POWER PANEL
PS	POWER SUPPLY
PTZ	PAN TILT ZOOM
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
REX	REQUEST TO EXIT PUSH BUTTON
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RP	RECEPTACLE PANEL
RVS	REDUCED VOLTAGE STARTER
SACS	SECURITY ACCESS CONTROL SYSTEM
SCH	SCHEDULE
SHD	MOTORIZED SHADES
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
SW	SWITCH
TEMP	TEMPORARY
TRK	TRACK
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERE
VAC	ALTERNATING CURRENT VOLTAGE
VDC	DIRECT CURRENT VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE
VMS	VIDEO MESSAGING SYSTEM
VOIP	VOICE-OVER-INTERNET PROTOCOL
VSS	VIDEO SURVEILLANCE SYSTEM
WAP	WIRE ACCESS POINT
WMATA	WASHINGTON METROPOLITAN TRANSIT AUTHORITY
XFMR	TRANSFORMER

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS

NUMBER	TITLE

REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
SYMBOLS, LEGENDS AND ABBREVIATIONS

SCALE	DRAWING NO.	SHEET NO.
12" = 1'-0"	B09-ES-001	163 OF 183

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RACEWAY NOTES (CONDUIT AND DUCT WORK):

1. ALL ABOVE GROUND CONDUITS SHALL BE RGS (MINIMUM 1" DIAMETER, UON) FOR OUTDOOR INSTALLATIONS. USE CONDUIT FITTINGS WITH DOUBLE LOCK NUTS AND WEATHERPROOF SEALING RING AND GROOVE. ALL MOUNTING HARDWARE RGS CONDUITS SHALL BE STAINLESS STEEL. MAKE ALL FINAL CONNECTIONS TO MOTORS AND ANY OTHER ROTATING EQUIPMENT WITH LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (MINIMUM 3/4" DIAMETER, UON); PROVIDE ADEQUATE SLACK WITH MAXIMUM 18" IN LENGTH.
2. CUT STEEL CONDUIT ENDS SQUARE, REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASE PIPE COMPOUND.
3. EMBEDDED CONDUIT IN CONCRETE WALLS AND FLOOR SLABS SHALL HAVE A MINIMUM CONCRETE COVER OF 1-1/2", UON.
4. FOR ALL JUNCTION BOXES AND ENCLOSURES INSTALLED IN DAMP OR WET LOCATIONS, CONDUIT ENTRANCES SHALL ENTER ONLY THROUGH THE BOTTOM OR SIDES. TOP CONDUIT ENTRANCES SHALL NOT BE PERMITTED. ALL CONDUIT ENTRANCES AND CONNECTIONS SHALL BE WATER TIGHT. FURNISH AND INSTALL WATER TIGHT HUBS FOR ALL CONDUIT ENTRANCES INTO EQUIPMENT ENCLOSURES.
5. FURNISH AND INSTALL JUNCTION AND PULL BOXES AS SHOWN ON THE CONTRACT DRAWINGS AND WHEREVER NECESSARY TO FACILITATE PULLING AND SPLICING OF WIRE. COORDINATE LOCATIONS WITH AS-BUILT DRAWINGS AND EXISTING CONDITIONS. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR SPARE CONDUIT RUNS FURNISH AND INSTALL PULL BOXES EVERY 100 FEET, UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS.
6. FOR OUTDOOR RACEWAYS FURNISH AND INSTALL CONDUIT EXPANSION FITTINGS WITH BONDING JUMPER TO ALLOW FOR EXPANSION AND CONTRACTION DUE TO CHANGES IN TEMPERATURE. EXPANSION FITTINGS SHALL BE "TYPE EXLK" AS MANUFACTURED BY APPLETON, OR APPROVED EQUAL, AND INSTALLED ON STRAIGHT RUNS EXCEEDING 100-FT. IN LENGTH.
7. FURNISH AND INSTALL EXPANSION/DEFLECTION FITTINGS WITH BONDING JUMPER WHERE CONDUITS CROSS STRUCTURAL EXPANSION JOINTS.
8. PROVIDE PULL STRINGS IN ALL CONDUITS IN ABOVE AND BELOW GROUND, RATED @1200 LB TENSILE STRENGTH MINIMUM.
9. THERE SHALL BE NO DIRECT BURIAL OF CONDUITS. ALL CONDUITS SHALL BE IN CONCRETE ENCASED DUCTBANKS. CONDUIT SHALL BE PVC SCHEDULE 40 AND BE INSTALLED BASED ON DETAILS LOCATED IN THESE CONTRACT DRAWINGS.
10. ALL STUB-UPS THROUGH FOUNDATION, SLAB OR OTHER CAST-IN-PLACE STRUCTURE SHALL BE RGS CONDUITS. FURNISH AND INSTALL APPROVED FITTINGS FOR TRANSITION FROM PVC CONDUITS.
11. CONDUIT ROUTING SHOWN ON CONTRACT DRAWINGS IS DIAGRAMMATIC. EXACT ROUTING SHALL BE FIELD VERIFIED TO MINIMIZE THE LENGTH OF RUN AND TO AVOID PHYSICAL OBSTRUCTIONS.
12. NOTIFY ENGINEER 5 DAYS IN ADVANCE OF ALL WORK IN HANDHOLES ON ACTIVE ROADWAYS TO ASSURE COORDINATION OF MAINTENANCE AND PROTECTION OF TRAFFIC.
13. WHEN WORK PERFORMED BY THE CONTRACTOR DISTURBS THE APPEARANCE OF EXISTING SURFACES, THE CONTRACTOR SHALL RESTORE THE SURFACE TO THE SATISFACTION OF THE ENGINEER. RESTORATION MAY INCLUDE COMPLETE REPLACEMENT AT NO ADDITIONAL COST TO THE PROJECT.
14. FOR COMMUNICATION CONDUIT RUNS, SIZE JUNCTION BOXES TO MEET MINIMUM CABLE BEND REQUIREMENTS.
15. ALL CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS TAMPERING OR REMOVAL WHEN INSTALLED IN AREAS EXPOSED TO THE GENERAL POPULATION.

WIRES AND CABLE NOTES:

1. ALL CABLES SHALL BE INSTALLED IN CONDUITS. NO EXPOSED CABLES SHALL BE PERMITTED. ALL CONDUIT ENTRIES FROM TOP AND SIDES SHALL BE TREADED AND SEALED.
2. FURNISH AND INSTALL TAG FOR ALL CONTROL CABLES. TAG IDENTIFICATIONS SHALL BE "XXX-##" WHERE "##" REPRESENTS THE CIRCUIT ID NUMBER.
3. FURNISH AND INSTALL JUNCTION BOXES AND PULL BOXES AS INDICATED TO FACILITATE PULLING AND SPLICING OF WIRE. COVERS FOR JUNCTION BOXES AND PULL BOXES SHALL BE ACCESSIBLE.
4. ALL WIRING UNDER THIS CONTRACT SHALL BE SUITABLE FOR WET LOCATIONS AND BE INSTALLED IN CONDUITS. ALL INTERIOR/ABOVE GROUND POWER CABLE SHALL BE XHHW FOR DRY LOCATIONS ONLY AND XHHW-2 FOR OTHER LOCATIONS AND THHN-THWN FOR GASOLINE OIL RESISTANT LOCATIONS. ALL UNDERGROUND POWER CABLE SHALL BE TRIPLE RATED TYPE "USE-RHW-RHW-2". MINIMUM WIRE SIZE SHALL BE #12 AWG FOR POWER AND #14 AWG FOR CONTROL.
5. SECURE AND SEAL CABLE ENDS NOT YET SPLICED TO AVOID ABSORPTION OF HUMIDITY AND/OR WATER. RETAIN MANUFACTURER'S ORIGINAL END CAPS IN PLACE UNTIL SPLICING HAS BEEN COMPLETED OR FURNISH AND INSTALL APPROVED END CAPS. ANY PORTION OF A CABLE OR WIRE DAMAGED DURING INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST THE AUTHORITY. NO ADDITIONAL SPLICES SHALL BE INTRODUCED TO REPAIR CABLES.
6. CABLES SHALL PASS THE FLAME PROPAGATORY TEST VW-1, BE (UL) LISTED AS XHHW-2 RATED 90 DEGREES FOR BOTH WET AND DRY APPLICATIONS. ALL CLAMPS, CONNECTORS, AND OTHER HARDWARE USED WITH THE GROUNDING SYSTEM SHALL BE MADE OF COPPER. NO SPLICES OR JOINTS SHALL BE PERMITTED IN EITHER FEEDERS OR BRANCHES EXCEPT AT OUTLETS OR ACCESSIBLE TERMINAL, SPLICE OR JUNCTION BOXES. WIRE SPLICES SHALL BE COMPRESSION TYPE. ALL WIRES SHALL BE IDENTIFIED BY CIRCUITS IN ALL CABINETS, BOXES, WIRING TROUGHS AND OTHER ENCLOSURES, AND AT ALL TERMINAL POINTS, I.E., RECEPTACLE, ETC. THE USE OF MULTI-WIRE BRANCH CIRCUITS WITH A COMMON NEUTRAL IS NOT PERMITTED. WIRE SIZES SHALL BE INCREASED TO COMPENSATE FOR VOLTAGE DROPS
7. FURNISH AND INSTALL SEPARATE INSULATED GROUND WIRE, AS SHOWN IN THE CONTRACT DRAWINGS OR SIZED IN ACCORDANCE WITH THE NEC IF NOT SHOWN IN THE CONTRACT DRAWINGS, IN ALL CONDUIT RUNS CONTAINING CIRCUITS 120V AND ABOVE.
8. ENSURE THAT REMOTE ENDS OF TAPPED CONDUCTORS INCLUDE FUSED DISCONNECTING MEANS IN ACCORDANCE WITH NEC ARTICLE 240.21 (B)(3). NOTE THAT THIS MAY BE INTEGRAL TO EQUIPMENT PROVIDED BY WMATA VENDOR, HOWEVER IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND PROVIDE IF REQUIRED.

FIBER OPTIC CABLE NOTES:

1. NOTIFY THE ENGINEER IN WRITING IN ADVANCE OF FIBER OPTIC CABLE INSTALLATION.
2. UNLESS OTHERWISE NOTED, FIBER OPTIC CABLE SHALL BE INDOOR/OUTDOOR CABLE, SINGLE MODE, WITH WATER BLOCKING. SEE FIBER OPTIC SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
3. NOTIFY THE ENGINEER IN WRITING 14 WORKING DAYS IN ADVANCE OF FIBER OPTIC SPLICING AND TERMINATION.
4. BEND RADIUS OF INSTALLED FIBER OPTIC CABLE SHALL BE LARGER THAN THE MINIMUM BEND RADIUS SPECIFIED BY THE MANUFACTURER. ALL CONDUIT INSTALLED TO CONTAIN FIBER OPTIC SHALL BE CONSISTENT WITH THE CABLE BEND RADIUS.
5. UNLESS OTHERWISE NOTED, SPARE FIBER OPTIC CABLE SLACKS SHALL BE COILED AND NEATLY WRAPPED AND STORED AS
   A. IN MANHOLES:
      SM FO CABLE - 30 FT PER CABLE ENTRY
   B. IN HANDHOLES AND JUNCTION BOXES:
      SM FO CABLE - 10 FT PER CABLE ENTRY
   C. IN CABINETS:
      SM FO CABLE - 10 FT PER CABLE ENTRY
   D. IN POWER POLES:
      SM FO CABLE - 15 FT PER CABLE ENTRY
6. CABLE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS. ANY PORTION OF THE CABLE DAMAGED DURING INSTALLATION SHALL BE REPLACED AT NO ADDITIONAL COST THE THE AUTHORITY. NO MID-SPAN SPLICING IS PERMITTED.
7. INSTALL ALL FIBER OPTIC CABLE IN HANDHOLES, POLES, AND JUNCTION BOXES FOR IDENTIFICATION. THE TAGS SHALL BE STAINLESS STEEL, 28 GAUGE; 2" WIDE EMBOSSED WITH 5/16" HIGH LETTERS. FASTEN THE TAGS TO THE CABLES USING STAINLESS STEEL CABLE TIES. THE TAGS SHALL SHOW THE CONTRACT NUMBER. ALL FIBERS AND PATCH CORDS SHALL BE LABELED INSIDE EACH PATCH PANEL. FIBER OPTIC PATCH PANELS SHALL BE FURNISHED AND INSTALLED WITH CABLE DIRECTORIES.
8. ALL FIBER OPTIC CABLES AND JUMPERS SHALL BE FACTORY TESTED. DOCUMENTATION OF FACTORY TESTS SHALL BE SUBMITTED TO THE ENGINEER FOR EACH CABLE TYPE UPON DELIVERY TO THE CONSTRUCTION SITE. A VISUAL INSPECTION OF FIBER OPTIC CABLES AND JUMPERS SHALL BE MADE PRIOR TO INSTALLATION.
9. CABLE CONNECTING HARDWARE: MEET THE REQUIREMENTS OF ANSI/TIA-604-2-B, ANSI/TIA-604-3-B AND ANSI/TIA-604-12. COMPLY WITH ANSI/TIA-568-B.3. USE QUICK-CONNECT, SIMPLEX AND DUPLEX, TYPE SC AND LC CONNECTORS. INSERTION LOSS SHALL NOT BE MORE THAN 0.45 DB. TYPE SFF CONNECTORS MAY BE USED IN TERMINATION RACKS, PANELS AND EQUIPMENT PACKAGES.
10. THE ENTIRE FIBER OPTIC CABLE INSTALLATION WILL BE INSPECTED BY THE ENGINEER FOR CONFORMANCE TO THE CONSTRUCTION DOCUMENTS AND CODE REQUIREMENTS. NON-CONFORMING INSTALLATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST THE PROJECT PRIOR TO THE START OF TESTING OPERATIONS.
11. PULL ROPE SHALL BE INSTALLED WITH EACH INNER DUCT.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

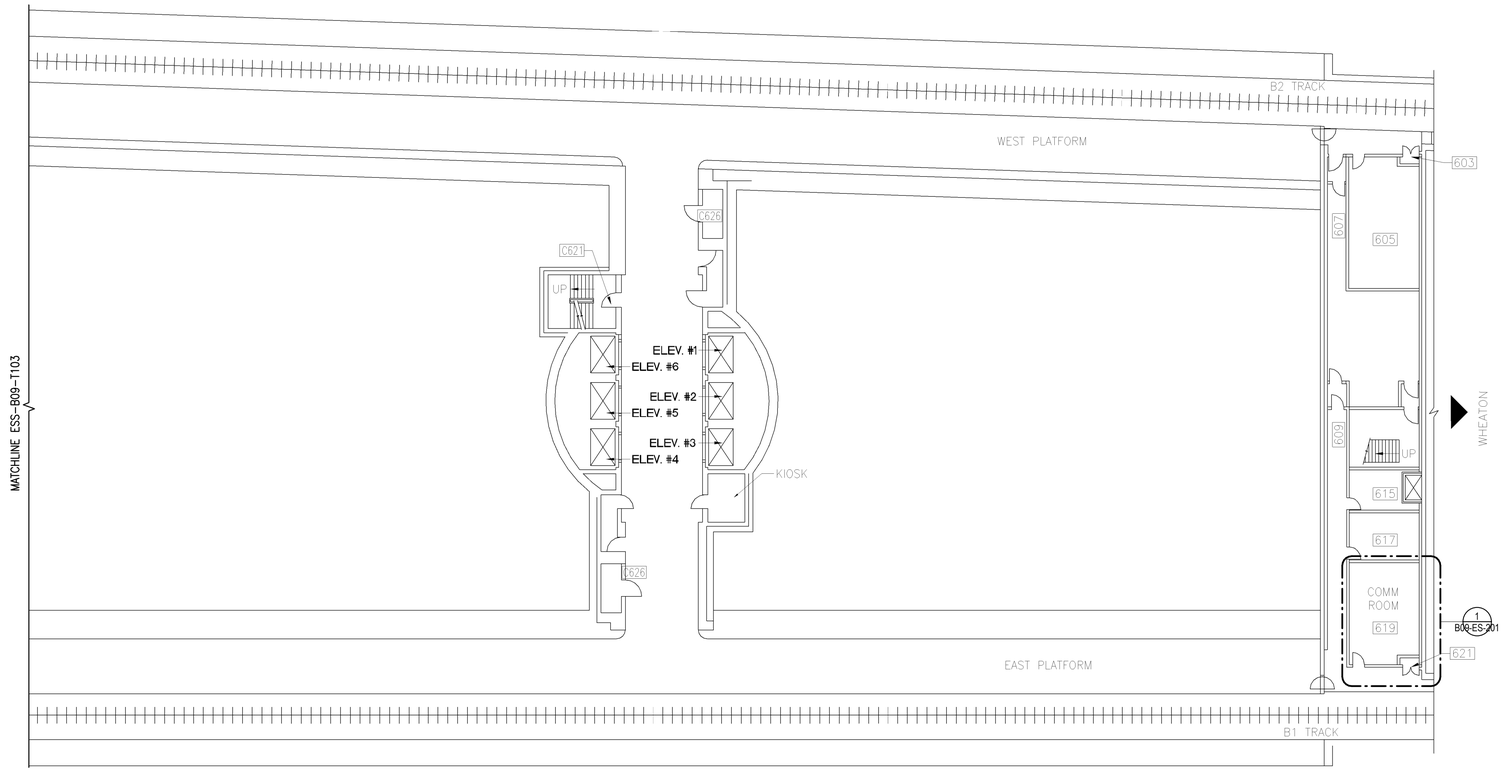
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
ELECTRONICS AND COMMUNICATIONS NOTES - CONTINUED

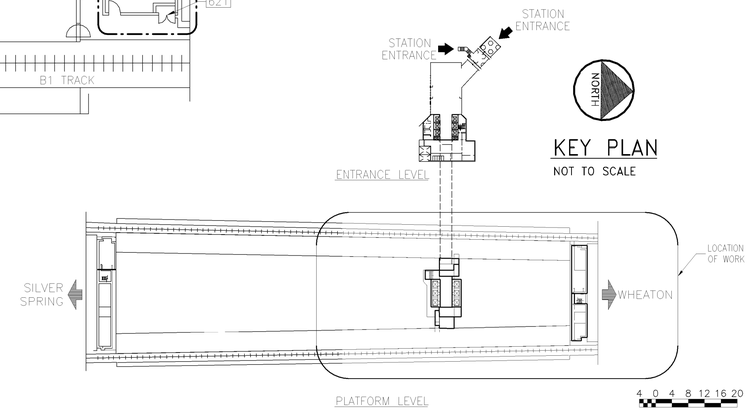
SCALE	DRAWING NO.	SHEET NO.
1/16" = 1'-0"	B09-ES-003	164 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS ES-001 THRU ES-003.
2. REFER TO CONTRACT DRAWINGS ES-400 THRU ES-407 FOR FIRE ALARM DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS ES-501 THRU ES-506 FOR ELECTRONICS SCHEDULES AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWING ES-201 FOR AN ENLARGED PLAN OF THE EXISTING COMM ROOM-619 AND EQUIPMENT LAYOUTS.





1 B09-ES-101 FLOOR PLAN - EXISTING PLATFORM LEVEL - NORTH
1/16" = 1'-0"

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE		
DRAWN	DATE		
CHECKED	DATE		
APPROVED	DATE		

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

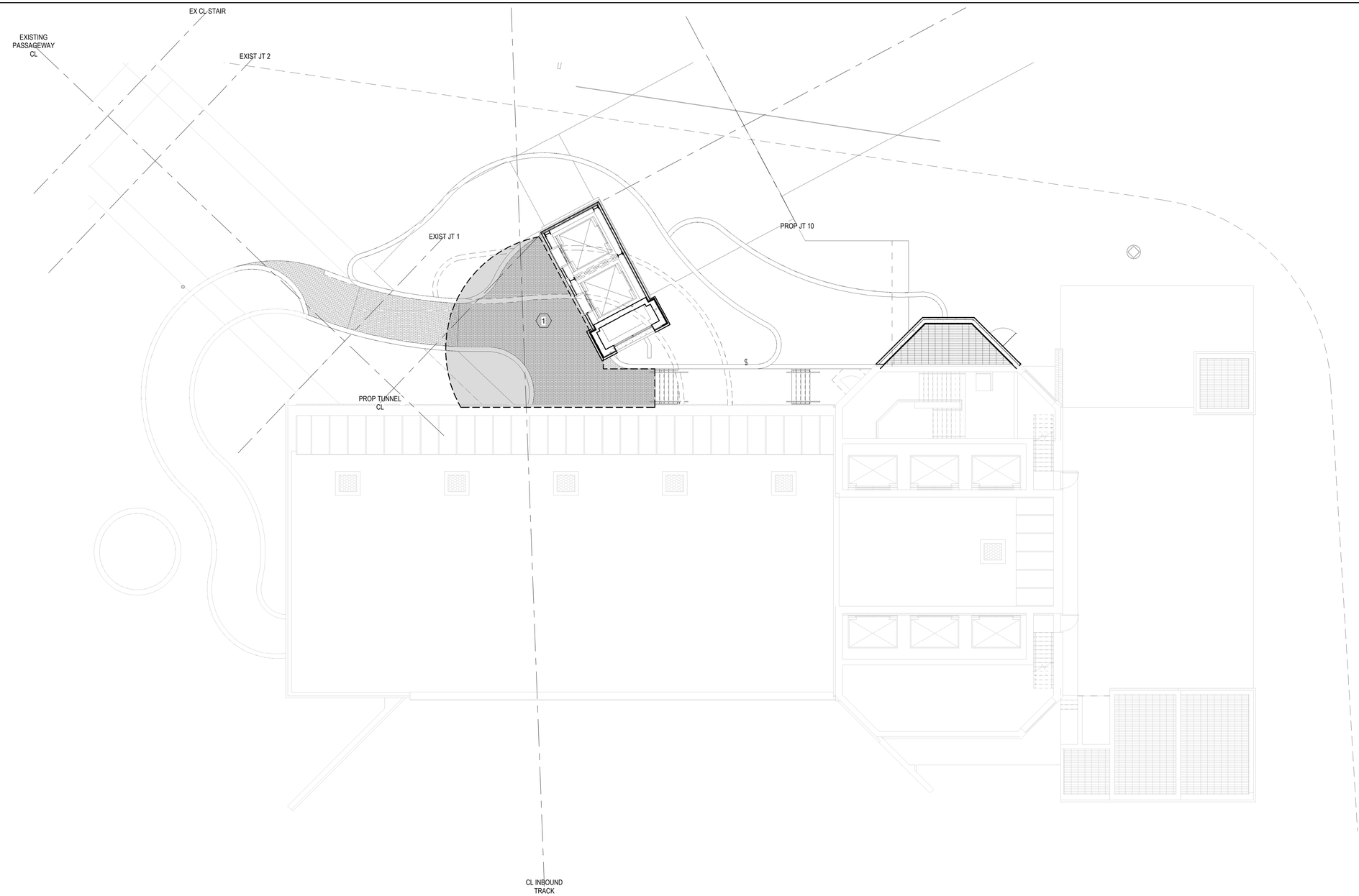
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
PLATFORM LEVEL - NORTH - EXISTING

SCALE	DRAWING NO.	SHEET NO.
1/16" = 1'-0"	B09-ES-101	165 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 FLOOR PLAN - STREET LEVEL - EAST
B09-ES-102 1" = 10'-0"

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS ES-001 THRU ES-003.
2. REFER TO CONTRACT DRAWINGS ES-400 THRU EF-407 FOR ELECTRONICS DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS ES-501 THRU ES-506 FOR ELECTRONICS SCHEDULES AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS ES-202 AND ES-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL THE FOLLOWING:

- TELECOMMUNICATIONS DEVICES:
  - FIBER/COPPER BACKBONE AND HORIZONTAL CABLING
  - PATCH CABLES
  - TERMINATION PATCH PANELS
  - CABINETS AND ENCLOSURES
  - NETWORK SWITCHES
  - TELEDATA OUTLETS
- ELECTRONIC DEVICES:
  - CCTV CAMERA SYSTEM
  - ACCESS CONTROLLED SYSTEM
  - PUBLIC ADDRESS PAGING SYSTEM
  - RADIO DISTRIBUTED ANTENNA SYSTEM (DAS)
  - CELLULAR DISTRIBUTED ANTENNA SYSTEM (DAS)
  - SCADA MONITORING OF VERTICAL TRANSPORATION RECALL SYSTEM (VTRMS) FOR ELEVATORS AND ESCALATORS
  - CALL-FOR-AID PHONE SYSTEM
- CONDUIT AND CABLING, POWER AND ALL REQUIRED SUPPORTING HARDWARE.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

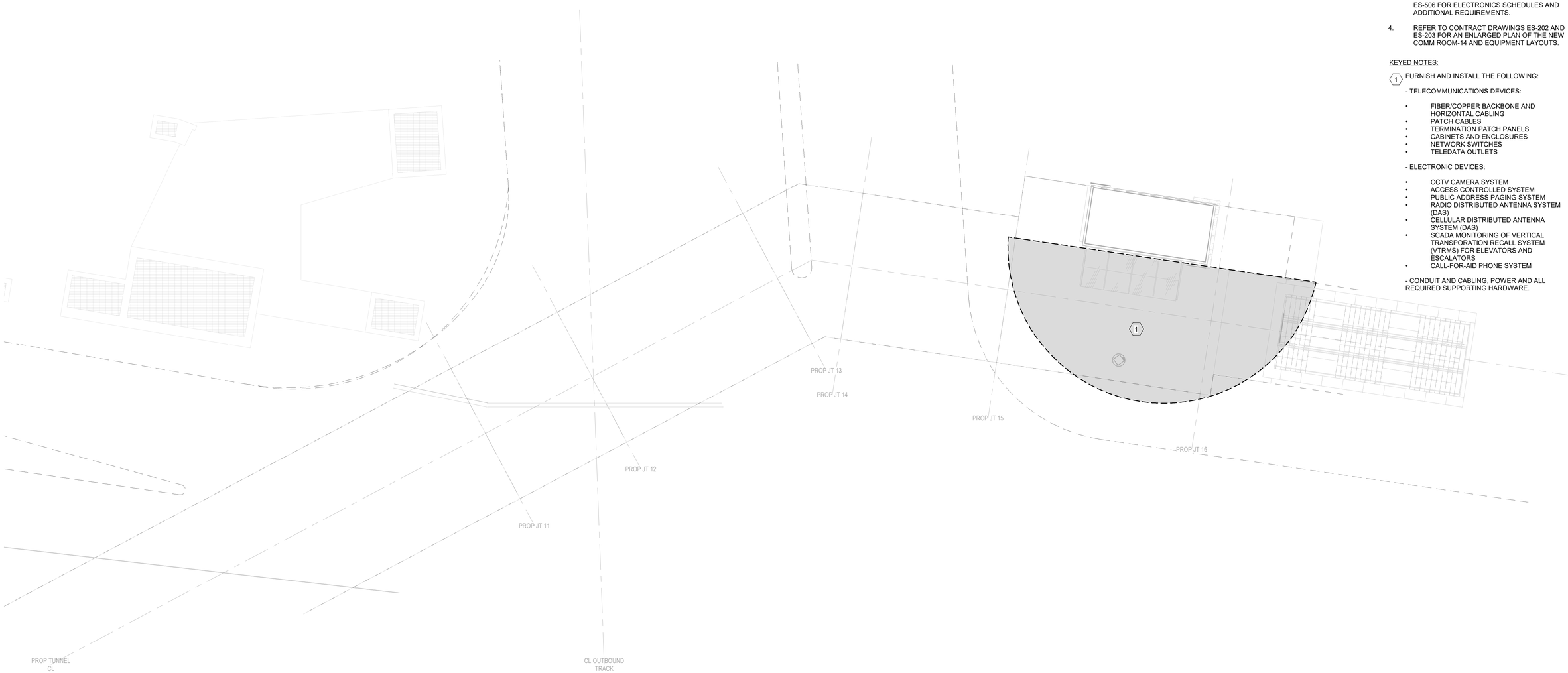
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
FLOOR PLAN - STREET LEVEL - EAST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-ES-102	166 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 FLOOR PLAN - STREET LEVEL - WEST
B09-ES-103 1" = 10'-0"

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS ES-001 THRU ES-003.
2. REFER TO CONTRACT DRAWINGS ES-400 THRU EF-407 FOR ELECTRONICS DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS ES-501 THRU ES-506 FOR ELECTRONICS SCHEDULES AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS ES-202 AND ES-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL THE FOLLOWING:

- TELECOMMUNICATIONS DEVICES:
  - FIBER/COPPER BACKBONE AND HORIZONTAL CABLING
  - PATCH CABLES
  - TERMINATION PATCH PANELS
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  - TELEDATA OUTLETS
- ELECTRONIC DEVICES:
  - CCTV CAMERA SYSTEM
  - ACCESS CONTROLLED SYSTEM
  - PUBLIC ADDRESS PAGING SYSTEM
  - RADIO DISTRIBUTED ANTENNA SYSTEM (DAS)
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  - SCADA MONITORING OF VERTICAL TRANSPORATION RECALL SYSTEM (VTRMS) FOR ELEVATORS AND ESCALATORS
  - CALL-FOR-AID PHONE SYSTEM
- CONDUIT AND CABLING, POWER AND ALL REQUIRED SUPPORTING HARDWARE.

NOT FOR CONSTRUCTION

TASK ORDER NO.

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REVISIONS

DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
FLOOR PLAN - STREET LEVEL - WEST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-ES-103	167 OF 183

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SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS ES-001 THRU ES-003.
2. REFER TO CONTRACT DRAWINGS ES-400 THRU EF-407 FOR ELECTRONICS DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS ES-501 THRU ES-506 FOR ELECTRONICS SCHEDULES AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS ES-202 AND ES-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL THE FOLLOWING:

- TELECOMMUNICATIONS DEVICES:
  - FIBER/COPPER BACKBONE AND HORIZONTAL CABLING
  - PATCH CABLES
  - TERMINATION PATCH PANELS
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  - NETWORK SWITCHES
  - TELEDATA OUTLETS
- ELECTRONIC DEVICES:
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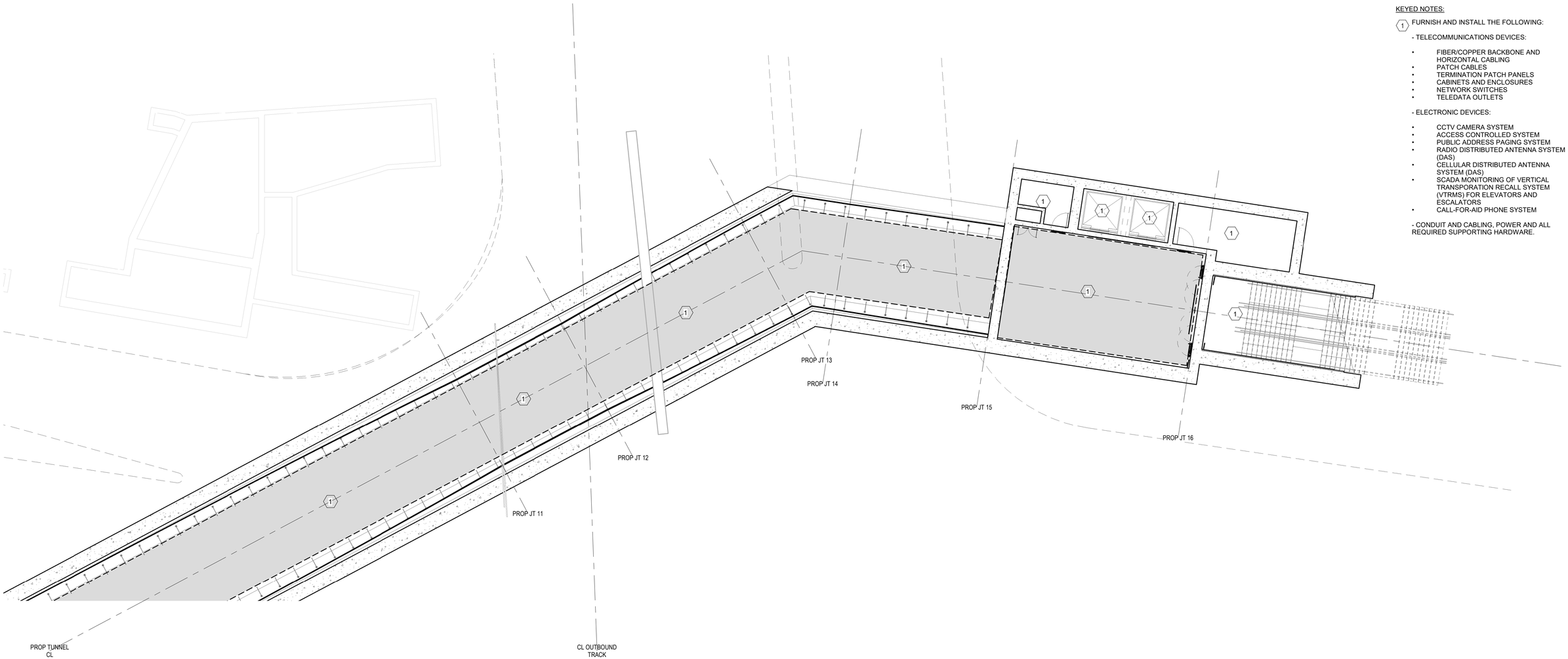
  - PUBLIC ADDRESS PAGING SYSTEM
  - RADIO DISTRIBUTED ANTENNA SYSTEM (DAS)
  - CELLULAR DISTRIBUTED ANTENNA SYSTEM (DAS)
  - SCADA MONITORING OF VERTICAL TRANSPORATION RECALL SYSTEM (VTRMS) FOR ELEVATORS AND ESCALATORS
  - CALL-FOR-AID PHONE SYSTEM
- CONDUIT AND CABLING, POWER AND ALL REQUIRED SUPPORTING HARDWARE.



1 / B09-ES-104 FLOOR PLAN - TUNNEL LEVEL - EAST - INSTALLATION
1" = 10'-0"

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
FLOOR PLAN - TUNNEL LEVEL - EAST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-ES-104	168 OF 183

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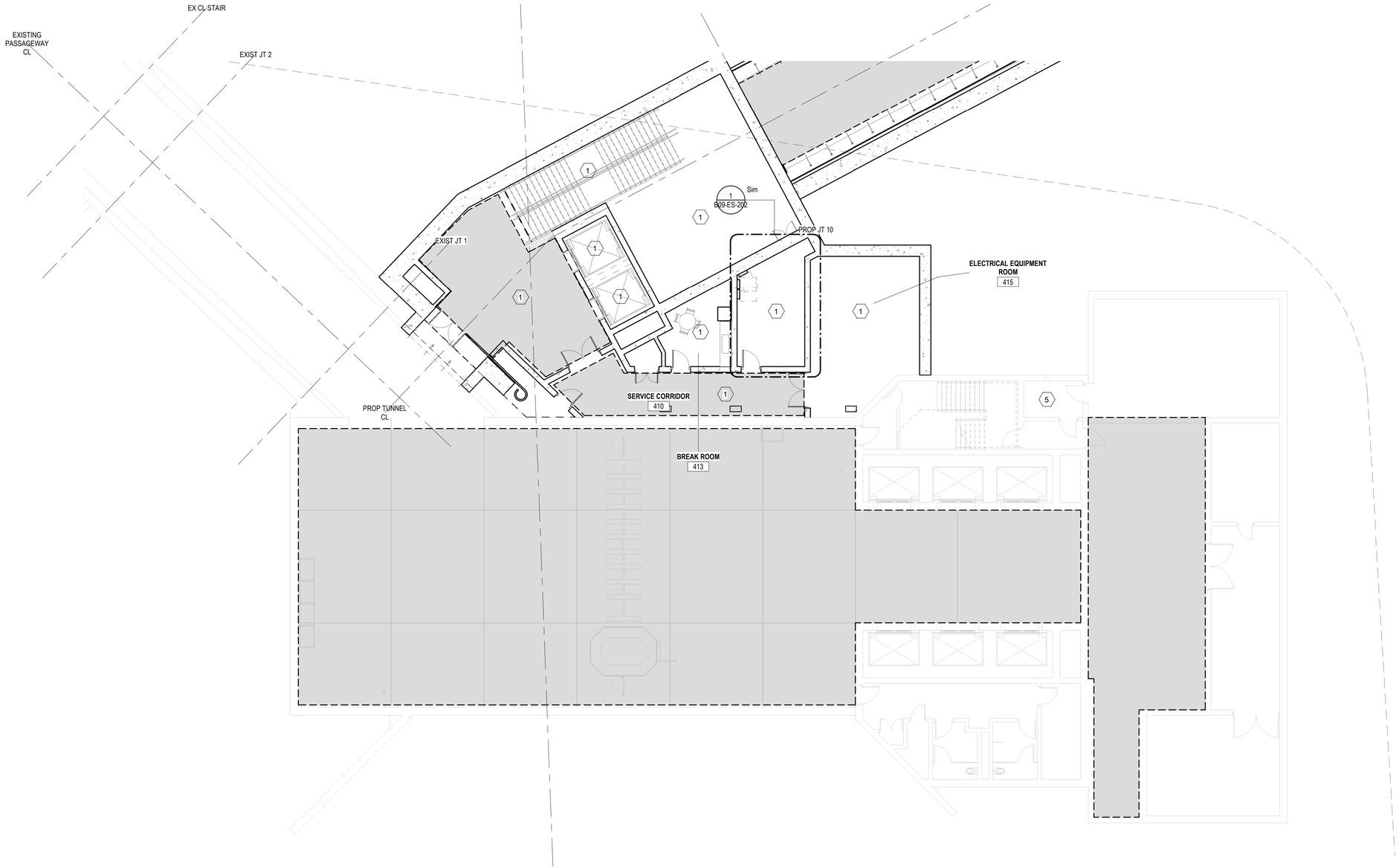

1 FLOOR PLAN - TUNNEL LEVEL - WEST- INSTALLATION
B09-ES-105 1" = 10'-0"

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS ES-001 THRU ES-003.
2. REFER TO CONTRACT DRAWINGS ES-400 THRU EF-407 FOR ELECTRONICS DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS ES-501 THRU ES-506 FOR ELECTRONICS SCHEDULES AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS ES-202 AND ES-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

KEYED NOTES:

(1) FURNISH AND INSTALL THE FOLLOWING:

- TELECOMMUNICATIONS DEVICES:
  - FIBER/COPPER BACKBONE AND HORIZONTAL CABLING
  - PATCH CABLES
  - TERMINATION PATCH PANELS
  - CABINETS AND ENCLOSURES
  - NETWORK SWITCHES
  - TELEDATA OUTLETS
- ELECTRONIC DEVICES:
  - CCTV CAMERA SYSTEM
  - ACCESS CONTROLLED SYSTEM
  - PUBLIC ADDRESS PAGING SYSTEM
  - RADIO DISTRIBUTED ANTENNA SYSTEM (DAS)
  - CELLULAR DISTRIBUTED ANTENNA SYSTEM (DAS)
  - SCADA MONITORING OF VERTICAL TRANSPORATION RECALL SYSTEM (VTRMS) FOR ELEVATORS AND ESCALATORS
  - CALL-FOR-AID PHONE SYSTEM
- CONDUIT AND CABLING, POWER AND ALL REQUIRED SUPPORTING HARDWARE.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
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CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

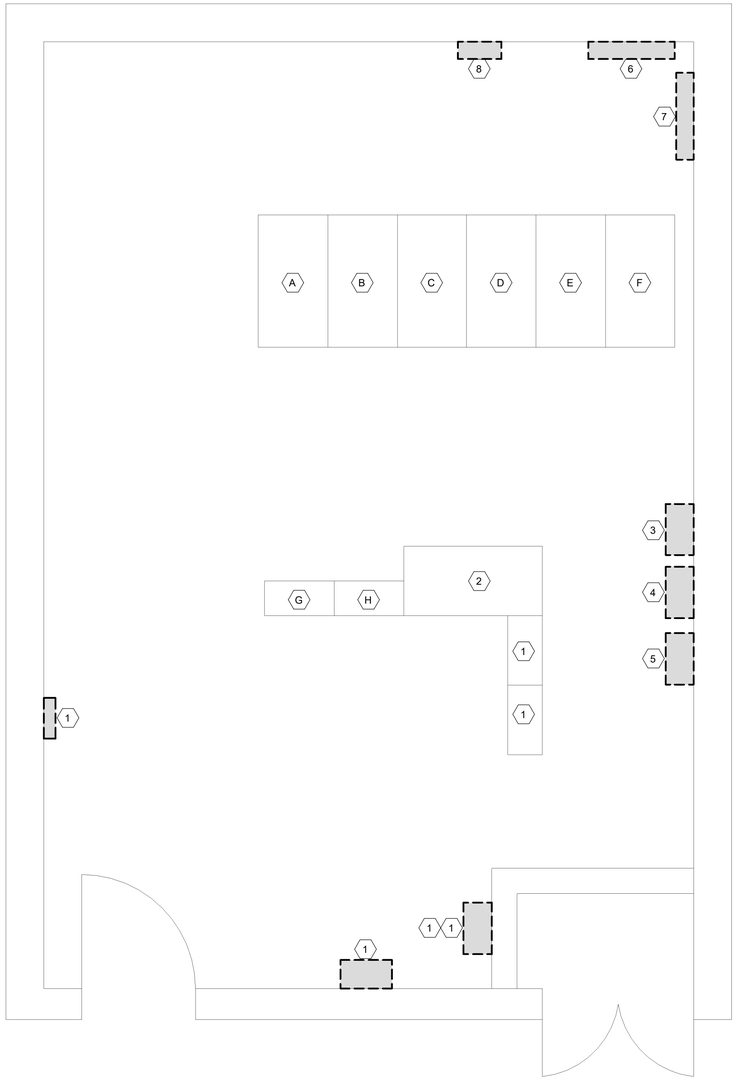
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
FLOOR PLAN - TUNNEL LEVEL -WEST - INSTALLATION

SCALE	DRAWING NO.	SHEET NO.
1" = 10'-0"	B09-ES-105	169 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 EXISTING COMM ROOM-619 - ENLARGED ROOM PLAN
B09-ES-201 NOT TO SCALE

#	DESCRIPTION - MISCELLANEOUS
1	EXISTING FIPLEX RADIO EQUIPMENT
2	EXISTING FIPLEX RADIO EQUIPMENT CABINET
3	EXISTING CRCS STATION BDA
4	EXISTING WMATA MARS STATION DR
5	EXISTING MC STATION DR
6	EXISTING EDWARDS EST-3 FACP
7	EXISTING FACP BATTERIES
8	EXISTING FIRE ALARM RELAY CABINET

#	DESCRIPTION - RACKS
A	RACK A - EXISTING CCTV STORAGE EQUIPMENT
B	RACK B - EXISTING FOS EQUIPMENT
C	RACK C - EXISTING CTS EQUIPMENT
D	RACK D - EXISTING TELEPHONE EQUIPMENT
E	RACK E - EXISTING PERS / APAAS EQUIPMENT
F	RACK F - EXISTING PAS EQUIPMENT
G	RACK G - EXISTING FIBER TERMINATION EQUIPMENT
H	RACK H - EXISTING CTV 2 EQUIPMENT

SHEET NOTES

1. FOR ALL SYMBOLS, LEGENDS, ABBREVIATIONS AND NOTES SEE CONTRACT DRAWINGS ES-001 THRU ES-003.
2. REFER TO CONTRACT DRAWINGS ES-400 THRU EF-407 FOR ELECTRONICS DEVICE INTALLATION DETAILS AND ADDITIONAL REQUIREMENTS.
3. REFER TO CONTRACT DRAWINGS ES-501 THRU ES-506 FOR ELECTRONICS SCHEDULES AND ADDITIONAL REQUIREMENTS.
4. REFER TO CONTRACT DRAWINGS ES-202 AND ES-203 FOR AN ENLARGED PLAN OF THE NEW COMM ROOM-14 AND EQUIPMENT LAYOUTS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

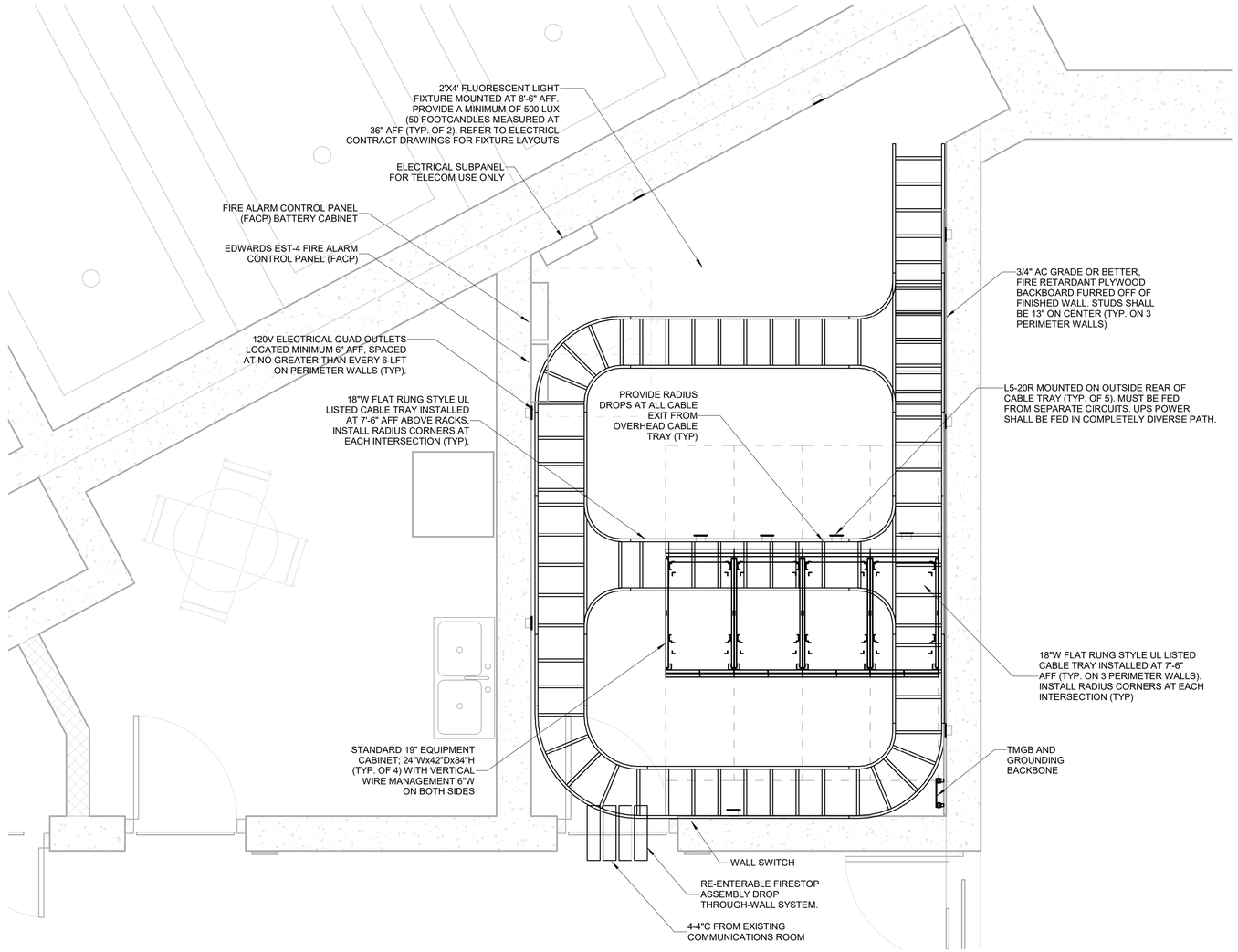
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
EXISTING TELECOMMUNICATIONS ROOM-619 - ENLARGED PLAN

SCALE 1/2" = 1'-0"
B09-ES-201
SHEET NO. 170 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 B09-ES-202 COMMUNICATIONS ROOM 14 - PLAN
1/2" = 1'-0"

SHEET NOTES:

1. CABINET LAYOUTS ARE DIAGRAMMATIC IN NATURE AND IS PROVIDED TO CONVEY THE DESIGN INTENT. CONTRACTOR SHALL VERIFIED ALL FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY REMOVALS OR INSTALLATIONS.
2. FURNISH AND INSTALL ALL CONDUITS AND WIRING, POWER, CONNECTING AND MOUNTING HARDWARE, AND JUNCTION/PULL BOXES AND ALL APPURTENANCES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
3. FURNISH AND INSTALL ALL COMMUNICATIONS PATHWAYS, HAND HOLES, PULLBOXES, FIBER OPTIC AND COPPER CABLING, TERMINATING HARDWARE AS INDICATED ON THE CONTRACT DRAWINGS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
NEW TELECOMMUNICATIONS ROOM-14 - ENLARGED PLAN

SCALE	DRAWING NO.	SHEET NO.
1/2" = 1'-0"	B09-ES-202	171 OF 183

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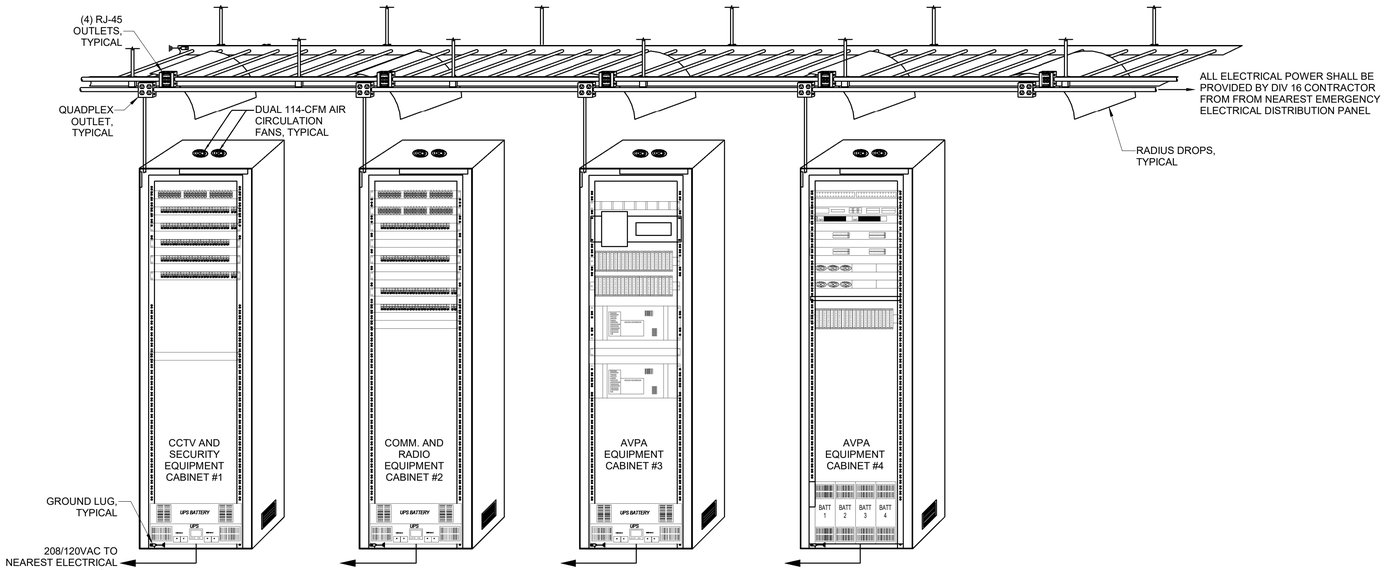
SHEET NOTES:

1. CABINET LAYOUTS ARE DIAGRAMMATIC IN NATURE AND IS PROVIDED TO CONVEY THE DESIGN INTENT. CONTRACTOR SHALL VERIFIED ALL FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO ANY REMOVALS OR INSTALLATIONS.
2. FURNISH AND INSTALL ALL CONDUITS AND WIRING, POWER, CONNECTING AND MOUNTING HARDWARE, AND JUNCTION/PULL BOXES AND ALL APPURTENANCES AS REQUIRED FOR A FULLY FUNCTIONING SYSTEM.
3. FURNISH AND INSTALL ALL COMMUNICATIONS PATHWAYS, HANDHOLES, PULLBOXES, FIBER OPTIC AND COPPER CABLING, TERMINATING HARDWARE AS INDICATED ON THE CONTRACT DRAWINGS.



COMMUNICATIONS ROOM 14 - ELEVATION

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS			
DRAWN	DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
CHECKED	DATE						
APPROVED	DATE						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
NEW TELECOMMUNICATIONS ROOM-14 - ELEVATION
PLAN AND DETAILS

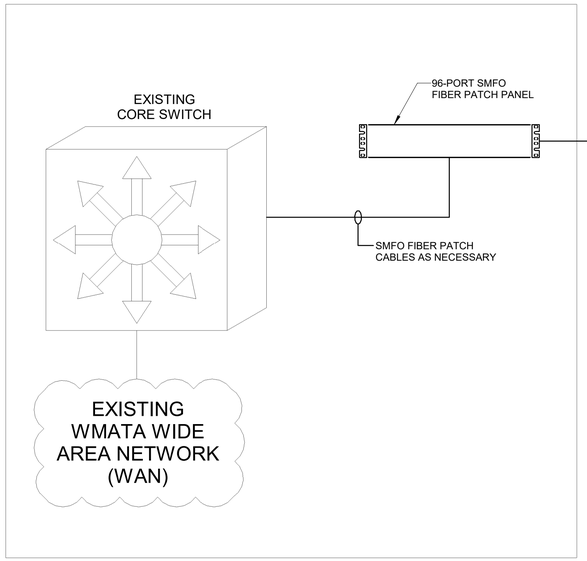
SCALE: NOT TO SCALE

B09-ES-203

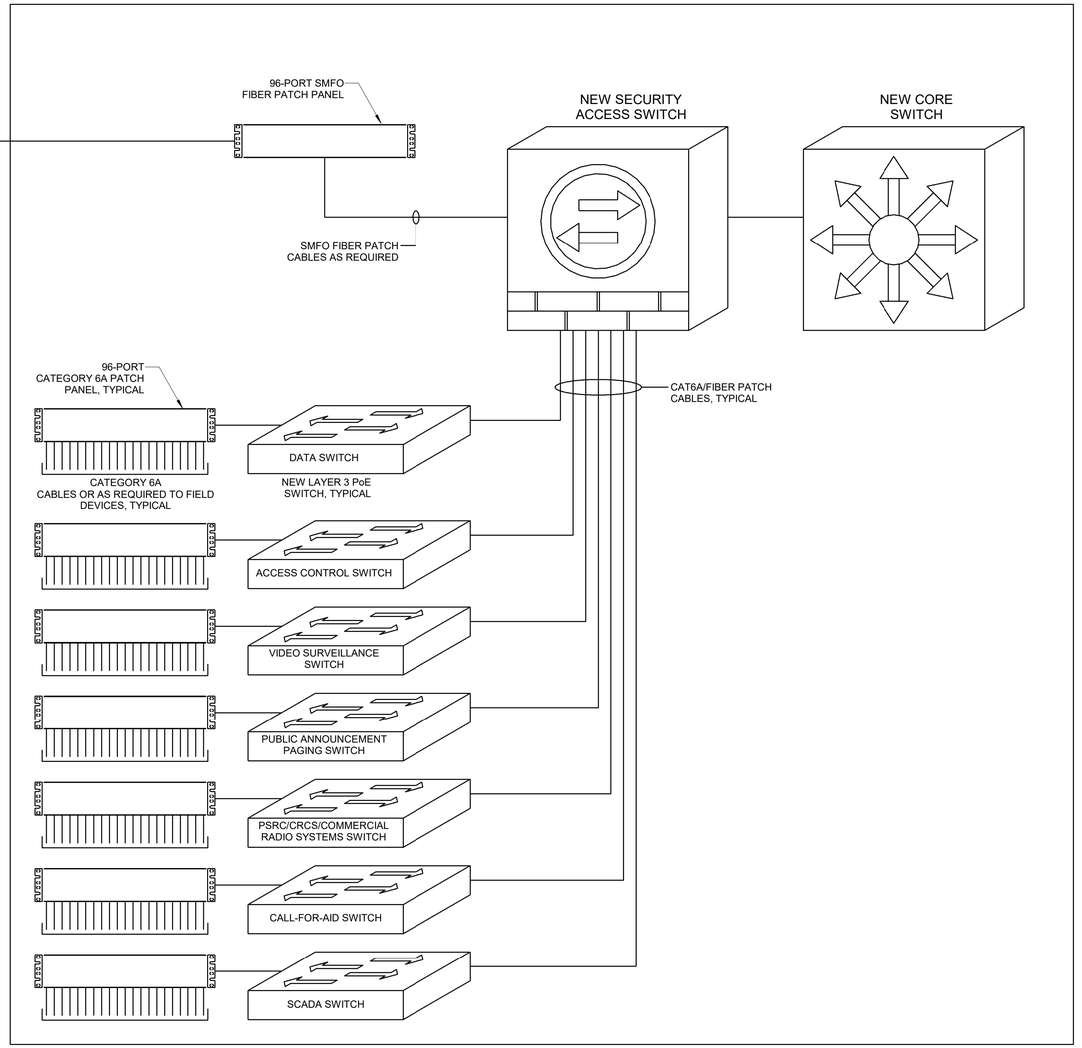
SHEET NO. 172 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt

EXISTING FOREST GLEN
COMMUNICATIONS ROOM IN THE
NORTH SERVICE AREA AT PLATFORM LEVEL



NEW FOREST GLEN
COMMUNICATIONS ROOM 14 IN
THE NEW TUNNEL EXTENSION



COMMUNICATIONS SINGLE LINE DIAGRAM

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES402 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE INTEGRATION OF VARIOUS SYSTEM IN THIS PROJECT. UNLESS OTHERWISE NOTED, ALL HEADEND SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO THE INDIVIDUAL RISER DIAGRAMS FOR CONNECTIVITY INSTALLATIONS.
5. FOR DEVICE INSTALLATIONS, REFER TO THE INDIVIDUAL DEVICE INSTALLATION DRAWINGS.
6. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF INDIVIDUAL SYSTEM RELATED EQUIPMENT.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

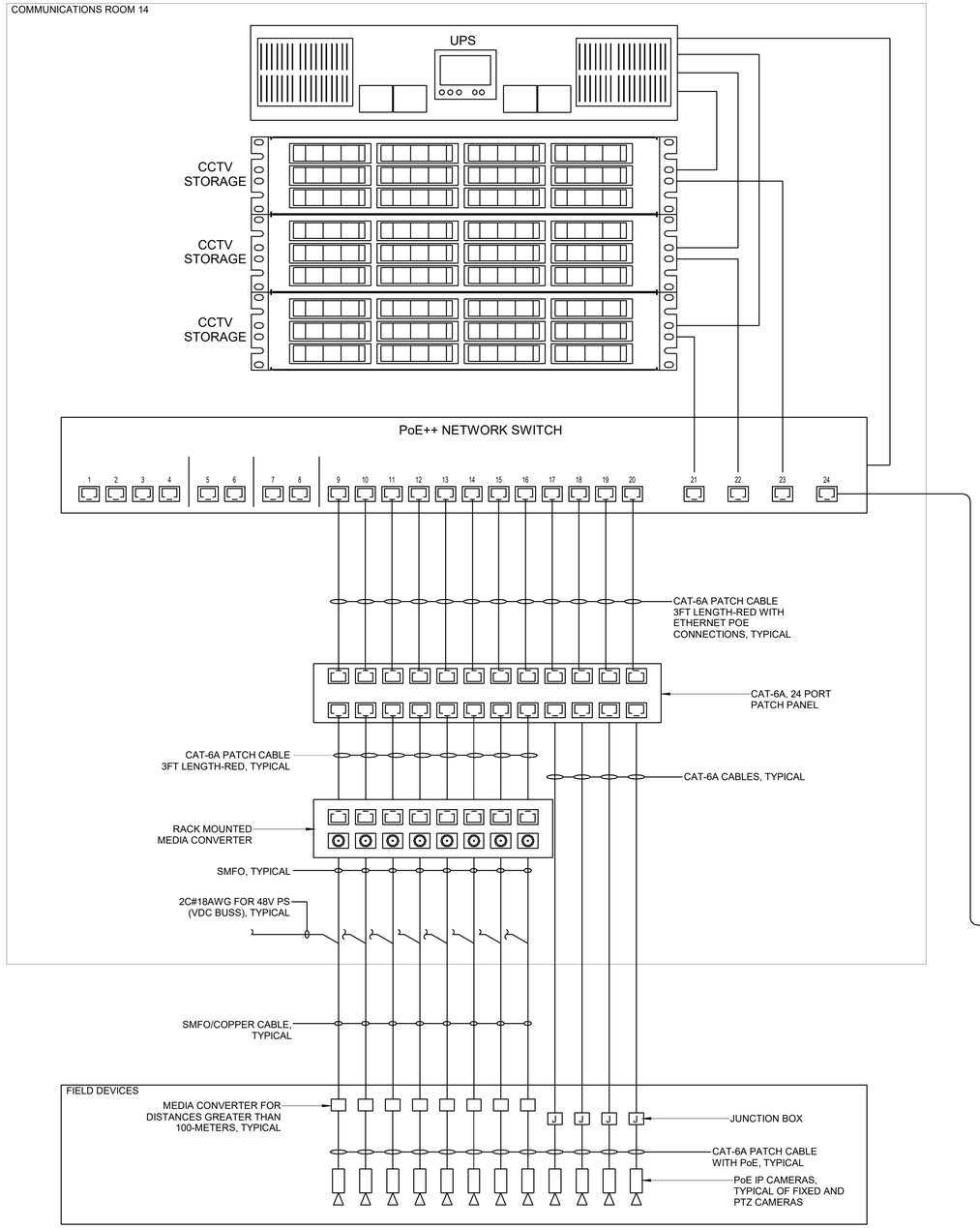
OFFICE OF ADJACENT AND TASK ORDER
CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN
TUNNEL 35% DESIGN
ELECTRONICS
NETWORK INTEGRATION SYSTEM DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-ES-300	173 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt



SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES401 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE CCTV VIDEO SURVEILLANCE SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND CCTV VIDEO SURVEILLANCE SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF CCTV VIDEO SURVEILLANCE RELATED EQUIPMENT.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.

VIDEO SURVEILLANCE SYSTEM RISER DIAGRAM

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS			
DRAWN	DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
CHECKED	DATE						
APPROVED	DATE						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

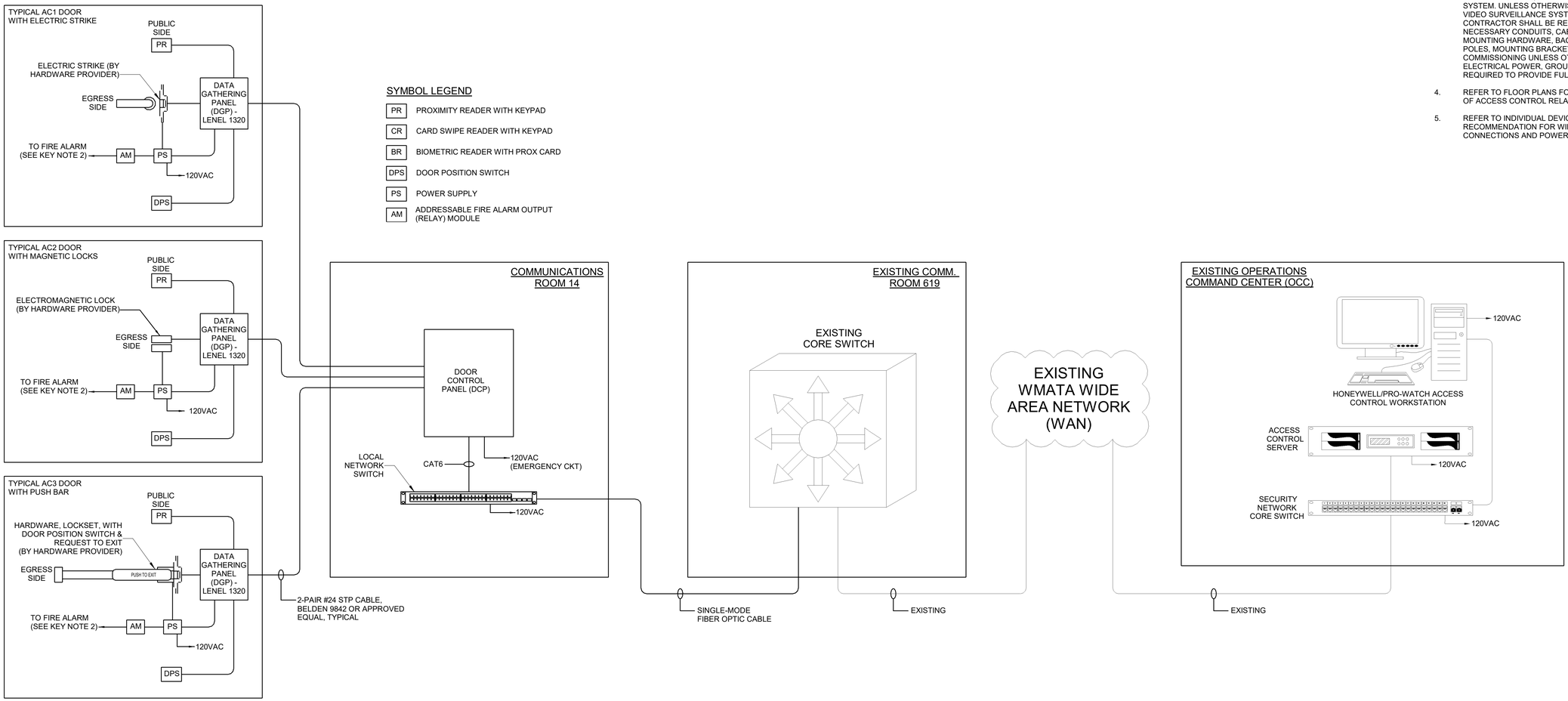
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
VIDEO SURVEILLNCE SYSTEM (VSS) DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-ES-301	174 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES402 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE ACCESS CONTROL SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND CCTV VIDEO SURVEILLANCE SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF ACCESS CONTROL RELATED EQUIPMENT.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.



ACCESS CONTROL SYSTEM RISER DIAGRAM

NOT FOR CONSTRUCTION

TASK ORDER NO.

			REFERENCE DRAWINGS		REVISIONS		
DESIGNED	DATE	NUMBER	TITLE	DATE	NUM	DESCRIPTION
DRAWN	DATE					
CHECKED	DATE					
APPROVED	DATE					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
ACCESS CONTROL SYSTEM (ACS) RISER DIAGRAM

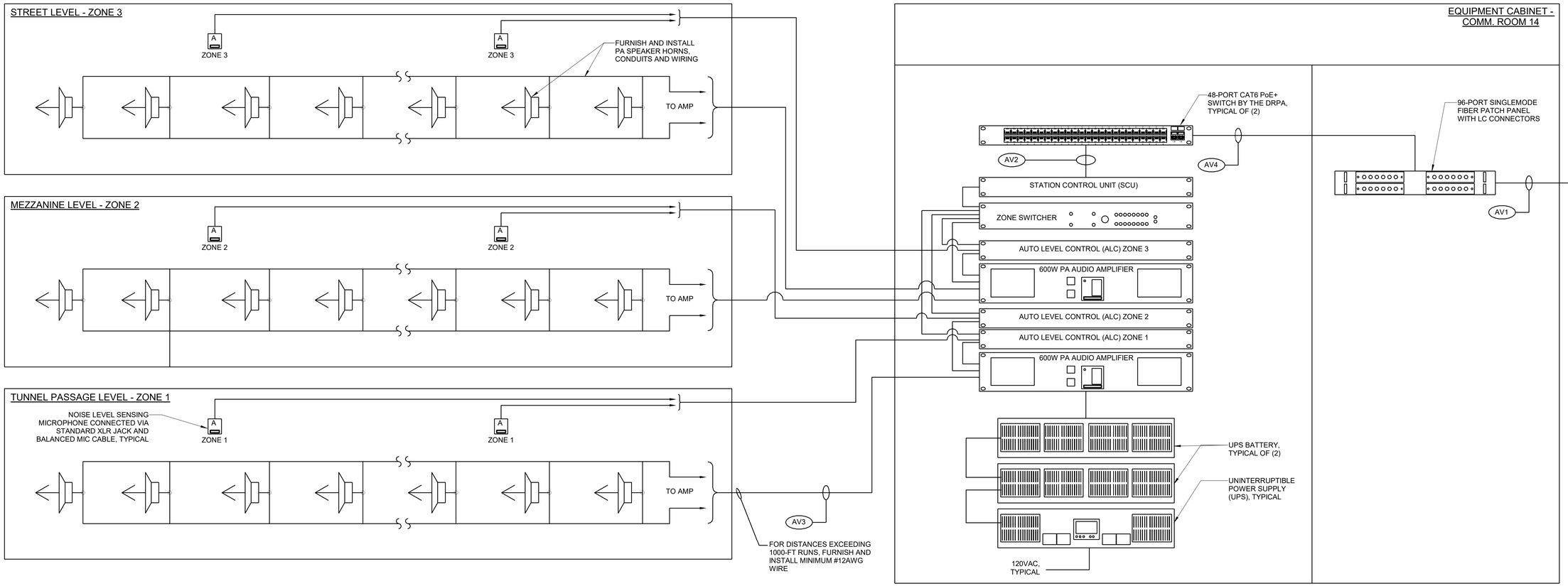
SCALE	DRAWING NO.	SHEET NO.
NONE	B09-ES-302	175 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt

PA CABLE SCHEDULE				
CABLE ID	PROTOCOL	CONDUCTOR		COMMENTS
		TYPE	COUNT	
AV1	FIBER	SMFO	96	CORNING
AV2	CAT6A	#24AWG	8	BELDEN 4800 SERIES
AV3	STP	#16AWG	2	BELDEN 5200FE
AV4	FIBER	SMFO	2	CORNING

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES403 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE PUBLIC ADDRESS PAGING SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND PUBLIC ADDRESS PAGING SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF PUBLIC ADDRESS PAGING RELATED EQUIPMENT.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.



PUBLIC ANNOUNCEMENT (PA) PAGING SYSTEM RISER DIAGRAM

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

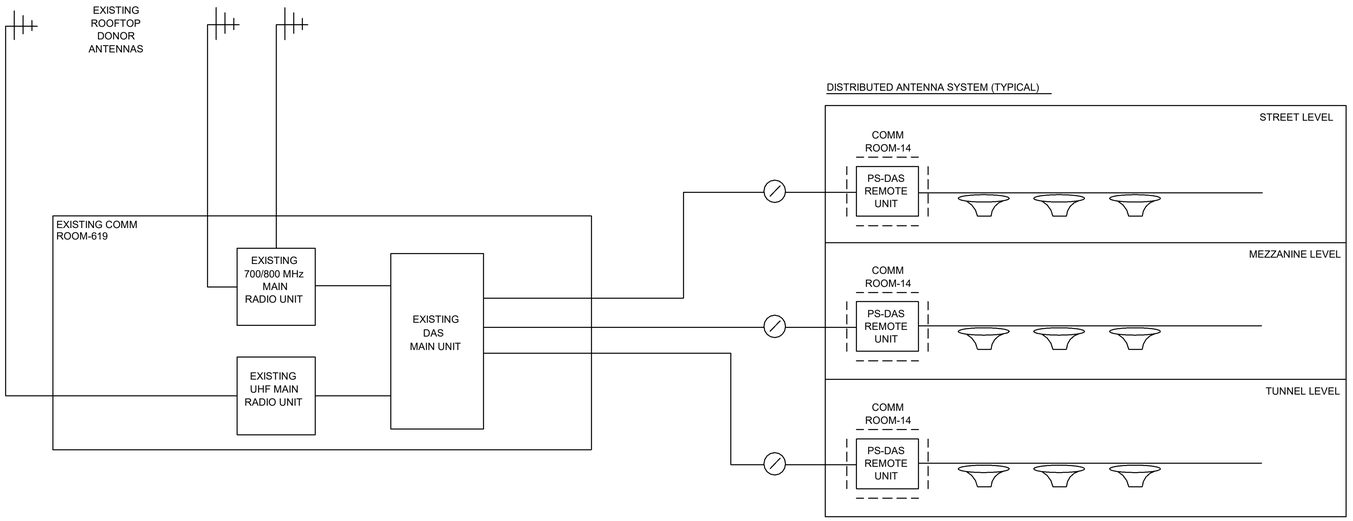
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

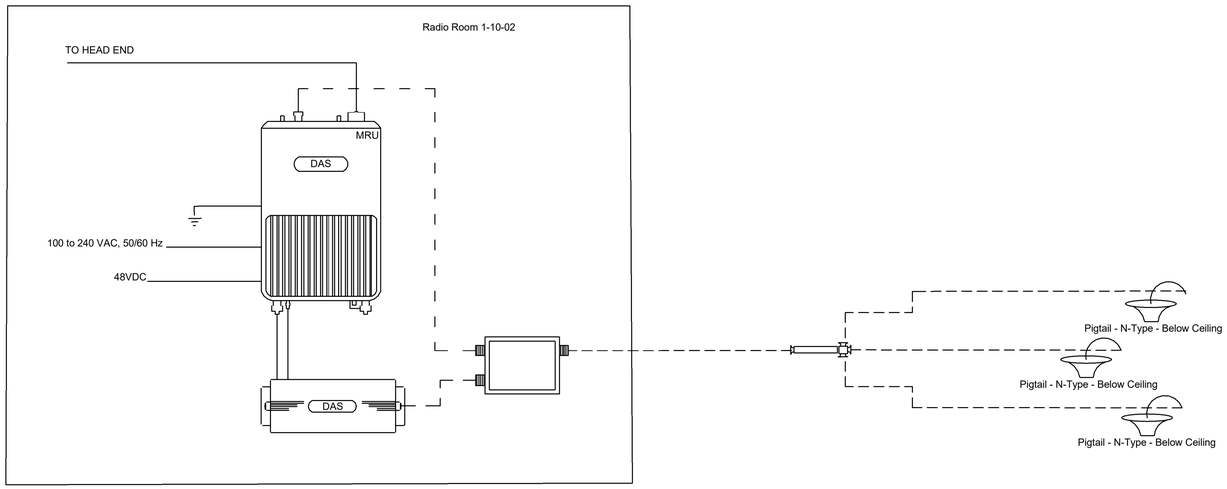
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
PUBLIC ADDRESS PAGING SYSTEM DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-ES-303	176 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 B09-ES-304 PUBLIC DAS BLOCK DIAGRAM
12" = 1'-0"



2 B09-ES-304 PUBLIC DAS SINGLE LINE DIAGRAM
12" = 1'-0"

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES404 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE RADIO DAS SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND RADIO DAS SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF RADIO DAS RELATED EQUIPMENT.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

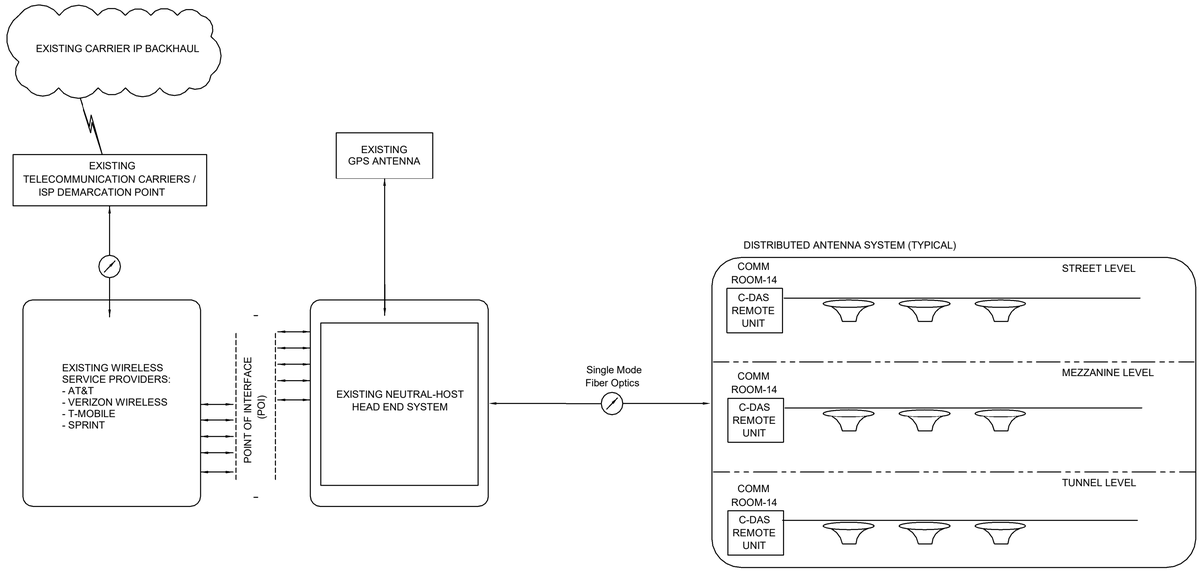
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

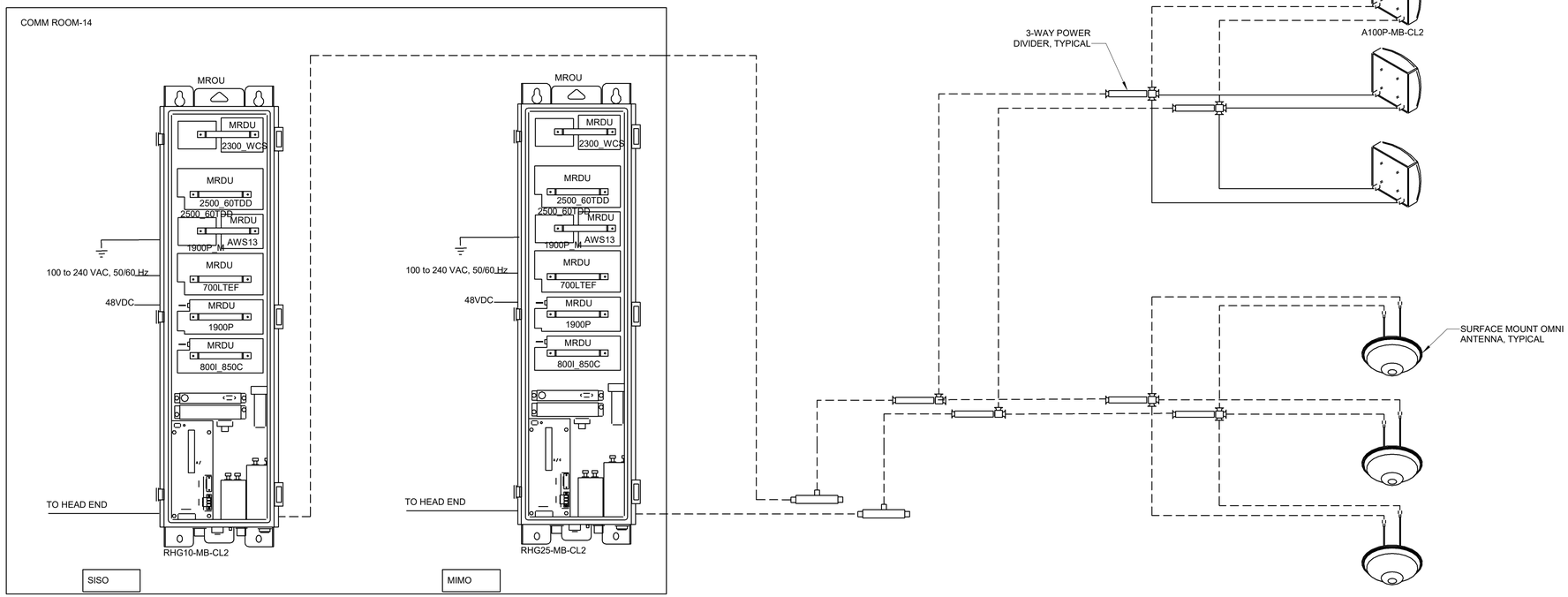
B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
PUBLIC SAFETY RADIO DAS SYSTEM DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
12" = 1'-0"	B09-ES-304	177 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_STS.rvt



1 B09-ES-305 CELLULAR DAS BLOCK DIAGRAM
12" = 1'-0"



2 B09-ES-305 CELLULAR DAS SINGLE LINE DIAGRAM
12" = 1'-0"

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES405 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE CELLULAR DAS SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND CELLULAR DAS SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULLUUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF CELLULAR DAS RELATED EQUIPMENT.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED ____ DATE ____
DRAWN ____ DATE ____
CHECKED ____ DATE ____
APPROVED ____ DATE ____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

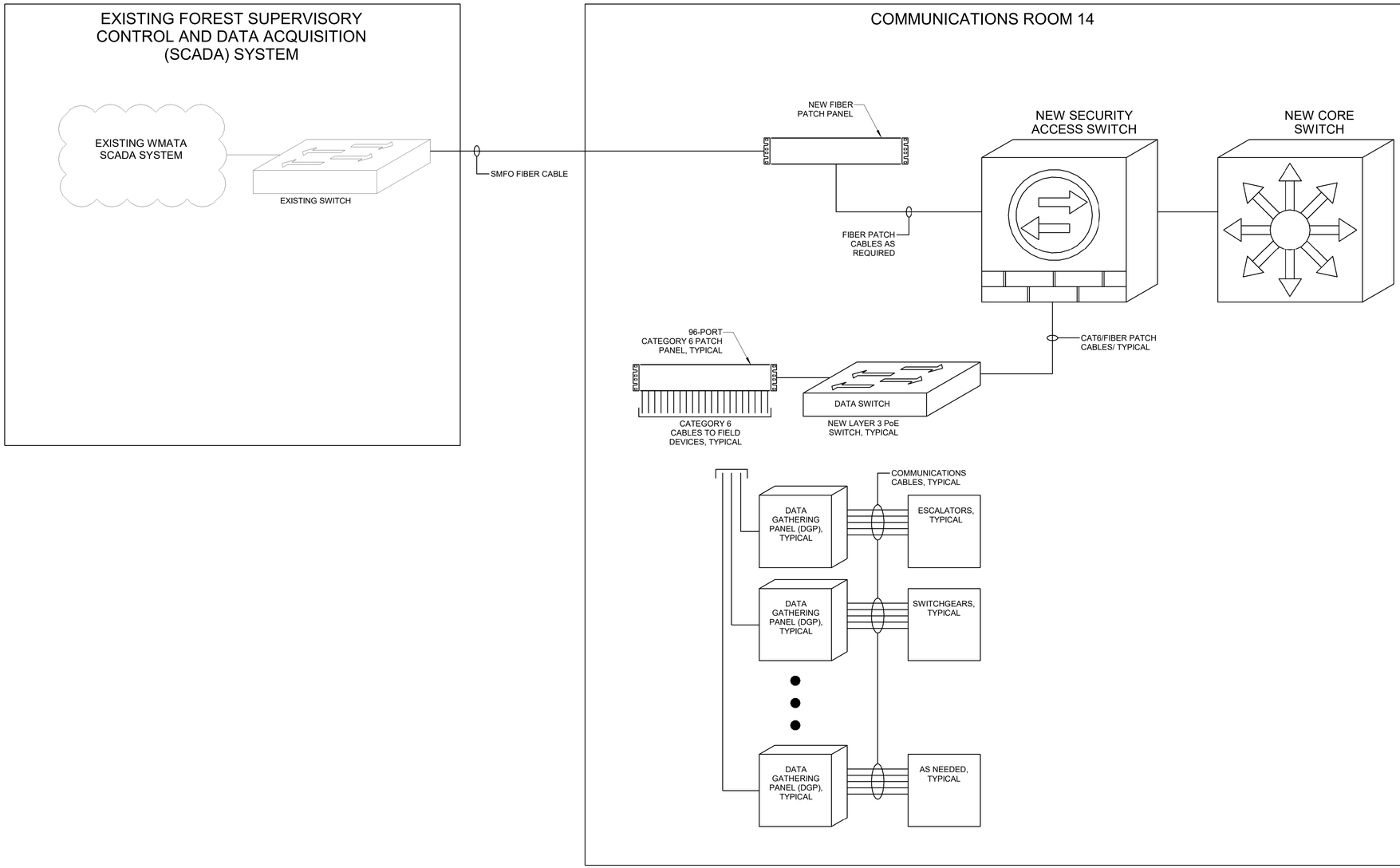
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: ____ DATE ____ WMATA APPROVED ____ DATE ____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
CELLULAR DAS SYSTEM DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
12" = 1'-0"	B09-ES-305	178 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt



SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES406 FOR INSTALLATION DETAILS.
3. RISER DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE SCADA SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND SCADA SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF SCADA RELATED EQUIPMENT.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.

SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SINGLE LINE DIAGRAM

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

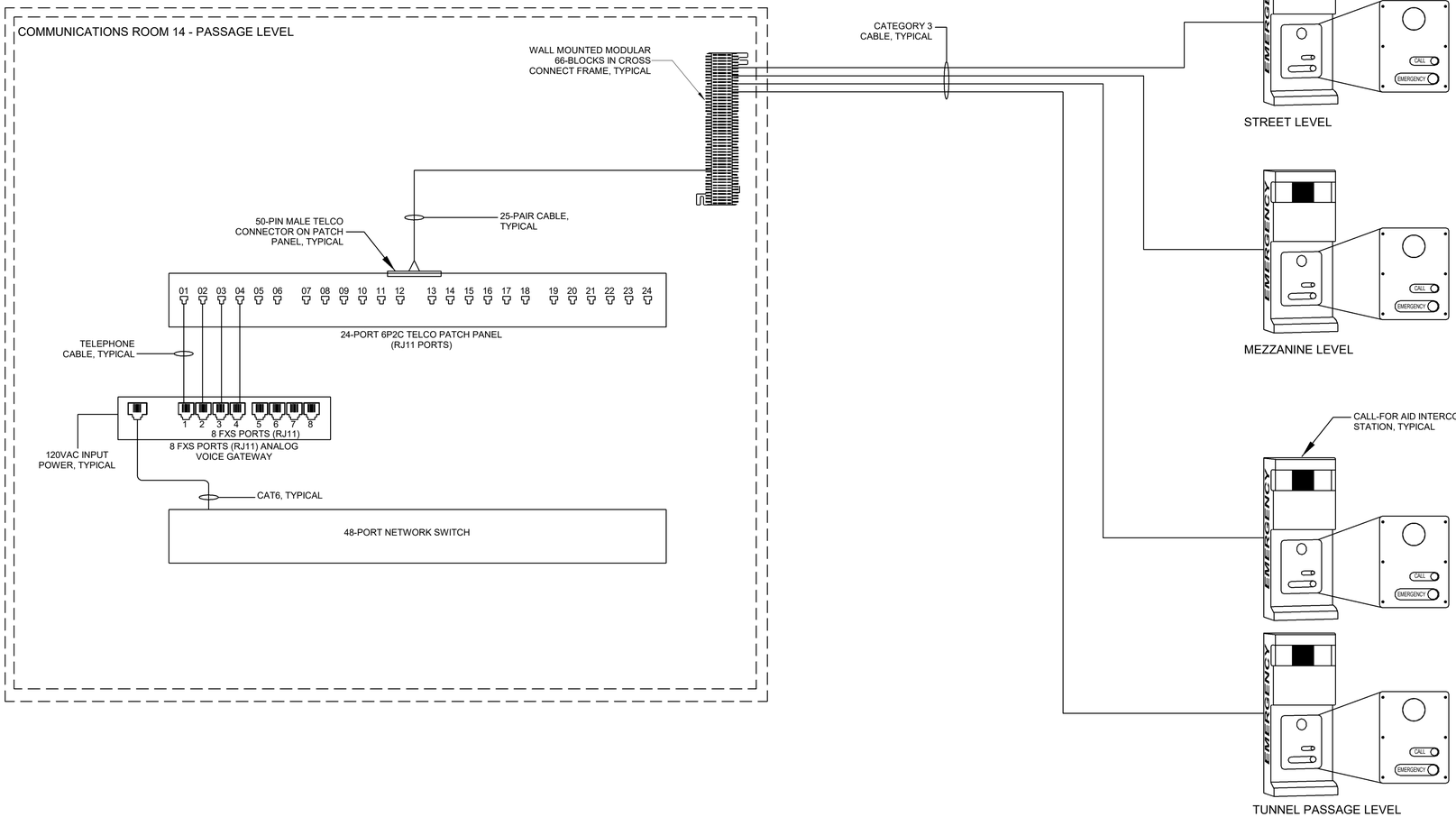
OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
SCADA SYSTEM DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-ES-306	179 OF 183

Autodesk Docs://Forest Glen/183091_Forest Glen Station_SYS.rvt



CALL-FOR AID SYSTEM RISER DIAGRAM

SHEET NOTES:

1. FOR GENERAL NOTES, LEGEND, ABBREVIATIONS AND SYMBOLS, REFER TO CONTRACT DRAWINGS ES001 THRU ES003.
2. REFER CONTRACT DRAWING ES407 FOR INSTALLATION DETAILS.
3. RISER DIAGRAM IS DIAGRAMMATIC ONLY AND HAS BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT AND INSTALLATION REQUIREMENTS OF THE CALL-FOR-AID SYSTEM. UNLESS OTHERWISE NOTED, ALL HEADEND CALL-FOR-AID AND EMERGENCY TELEPHONE SYSTEMS EQUIPMENT ARE EXISTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY CONDUITS, CABLING, CONNECTING HARDWARE, MOUNTING HARDWARE, BACKBOXES, PULL/JUNCTION BOXES, POLES, MOUNTING BRACKETS, COMPONENTS, DEVICES, COMMISSIONING UNLESS OTHERWISE NOTED, AS WELL AS ALL ELECTRICAL POWER, GROUNDING AND APPURTENANCES AS REQUIRED TO PROVIDE FULLY OPERATIONAL SYSTEM.
4. REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF CALL-FOR-AID AND EMERGENCY CALL BOXES.
5. REFER TO INDIVIDUAL DEVICE MANUFACTURER FOR ADDITIONAL RECOMMENDATION FOR WIRING/CABLING SIZES/TYPES, CONNECTIONS AND POWER REQUIREMENTS.

NOT FOR CONSTRUCTION

TASK ORDER NO.

DESIGNED _____ DATE _____
DRAWN _____ DATE _____
CHECKED _____ DATE _____
APPROVED _____ DATE _____

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

OFFICE OF ADJACENT AND TASK ORDER CONSTRUCTION (ATOC)

SUBMITTED BY: _____ DATE _____ WMATA APPROVED _____ DATE _____

B09 FOREST GLEN METRORAIL STATION PEDESTRIAN TUNNEL 35% DESIGN
ELECTRONICS
CALL-FOR-AID SYSTEM DIAGRAM

SCALE	DRAWING NO.	SHEET NO.
NONE	B09-ES-307	180 OF 183

UTILITY LEGEND

EXISTING		PROPOSED
— — CATV — —	CABLE TV	— — CATV — —
— — T — — —	COMMUNICATION	— — T — — —
— — E — — —	ELECTRIC	— — E — — —
— — FO — — -	FIBER OPTIC	— — FO — — -
— — G — — —	GAS	— — G — — —
· — SAN — — —	SANITARY SEWER	· — SAN — — —
— E (SHA) — —	SHA ELECTRIC	— E (SHA) — —
— — W — — —	WATER	— — W — — —
	OVERHEAD ELECTRIC	
= = = = = = SD	STORM DRAIN LINE	
	WATER VALVE	
	FIRE HYDRANT	
	GAS VALVE	
SS	SEWER MANHOLE	SS
SD	STORM DRAIN MANHOLE	SD
T	TELEPHONE MANHOLE	T
E	ELECTRIC MANHOLE	E
	UTILITY POLE	
	DITCH	
	SURFACE FLOW DIRECTION	
DI	DROP INLET. CATCH BASIN OR DRAIN	
	CULVERT WITH HEADWALLS	
	UNDERLINE DRAIN LINE	
	ABANDONED	TO BE ABANDONED
	REMOVED	TO BE REMOVED
	TEST HOLE	TH-XX
	SUPPORT AND PROTECT EXISTING UTILITY	— — W — — — — —

UTILITY DISPOSITION

X: (A) ADJUST, (R) RELOCATE, (RM) REMOVE, (PU) PROTECT UTILITY
(P) PROPOSED

X (UTILITY OWNER)
Y (SIZE /MATERIAL)

Y: (W) WATER, (S) SANITARY, (G) GAS, (FO) FIBER OPTIC,
(E) ELECTRIC, (T) TELEPHONE, (C) CABLE

UTILITY GENERAL NOTES

1. THE TOPOGRAPHIC AND THE UTILITY INFORMATION SHOWN HEREON WAS OBTAINED FROM SURVEY PERFORMED BY AB CONSULTANTS, INC IN 2021. THE LOCATION OF EXISTING UTILITIES ETC. SHOWN ON THESE PLANS ARE NOT THE EXACT LOCATIONS BUT ONLY A GENERAL LOCATION. ALTHOUGH THESE PLANS HAVE ATTEMPTED TO SHOW ALL EXISTING UTILITIES, THE CONTRACTOR SHALL NOT ASSUME ALL EXISTING UTILITIES HAVE BEEN SHOWN. THEREFORE IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SEE THAT ALL EXISTING UTILITIES WITHIN CONSTRUCTION AREAS ARE CLEARLY MARKED IN THE FIELD PRIOR TO ANY CONSTRUCTION IN THE AREA.
2. THE LOCATION OF THE UTILITIES ARE A COMBINATION OF FIELD SURVEYS PERFORMED BY AB CONSULTANTS, VISIBLE FIELD EVIDENCE, AVAILABLE RECORDS.
3. HORIZONTAL CONTROL : THE CIVIL /SITE DESIGN AND PEDESTRIAN PASSAGEWAY DESIGN IS ORIENTED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 8391.
4. VERTICAL CONTROL : THE CIVIL /SITE DESIGN VERTICAL DATUM IS BASED ON THE NORTH AMERICA VERTICAL DATUM OF 1988 (NAVD 88). THE PEDESTRIAN PASSAGEWAY DESIGN VERTICAL DATUM IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). THE NGVD 29 DATUM IS APPROXIM ATELY 0.712 FOOT HIGHER THAN THE NAVD 88 DATUM.
5. FOR UTILITIES MARKED AS TO BE ABANDONED OR REMOVED, THESE FACILITIES ARE TO BE ABANDONED IN PLACE IN ACCORDANCE WITH UTILITY COMPANY STANDARDS OR REMOVED AS NEEDED FOR PROJECT CONSTRUCTION.
6. UTILITY RELOCATIONS TRENCH PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

   ON MONTGOMERY COUNTY ROADWAYS, MONTGOMERY COUNTY DEPARTMENT OF TRANSPORTATION UTILITY PATCH DETAILS MC-801.01, MC-801.02 AND MC-801.03 (LAST REVISION 01/05/1996 AS OF 08/11/2021) SHALL BE USED AS FOUND IN THE MONTGOMERY COUNTY DEPARTMENT OF PERMITTING SERVICES "SPECIFICATIONS FOR UTILITY CONSTRUCTION PERMIT" DOCUMENT. ON STATE HIGHWAY ADMINISTRATION ROADWAYS, UTILITY TRENCH PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH MD SHA STANDARD DETAIL NO. MD 578.01 (LAST REVISION 2/25/2016 AS OF 08/11/2021).
7. ALL PROPOSED RELOCATIONS SHALL BE IN ACCORDANCE WITH UTILITY OWNERS SPECIFICATIONS.
8. EXISTING MANHOLES TO BE ABANDONED SHALL BE BACKFILLED OR REMOVED ACCORDING TO UTILITY OWNERS SPECIFICATIONS AS REFERENCED OR FOUND WITHIN THE MASTER SPECIFICATIONS BOOK FOR THE PROJECT.
9. CONTRACTOR SHALL CONTACT MONTGOMERY COUNTY AT LEAST 7 DAYS PRIOR TO THE START OF WORK.
10. CONTRACTOR SHALL TEST PIT ALL UTILITY CROSSING AND MAKE ADJUSTMENTS ACCORDINGLY.
11. MINIMUM CLEARANCE MUST BE MAINTAINED BETWEEN ALL UTILITIES AND APPURTENANCES OF 1' VERTICAL AND 5' HORIZONTAL FROM OUTSIDE OF PIPE. IN INSTANCES OF WATER AND SEWER, THE VERTICAL CLEARANCE IS 1.5' AND THE HORIZONTAL SEPARATION IS 10'.
12. CONTRACTOR IS RESPONSIBLE FOR DETERMINING WHETHER BRACING POLES IS REQUIRED AND SHALL COORDINATE AND SCHEDULE BRACING WITH UTILITY COMPANIES.
13. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE AND IN SERVICE THROUGHOUT CONSTRUCTION UNLESS OTHERWISE NOTED ON THE PLANS. OWNER AUTHORIZATION IS REQUIRED PRIOR TO INTERRUPTING UTILITY SERVICES.
14. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE IS DAMAGE TO AN EXISTING UTILITY DURING CONSTRUCTION.
15. EXISTING CONDITIONS SHOWN ON THESE PLANS ANTICIPATE THAT THE SHA MD 97(MO2245171) PROJECT IMPROVEMENTS AND ASSOCIATED ADVANCED UTILITY RELOCATIONS WILL BE COMPLETED PRIOR TO THE FOREST GLEN PEDESTRIAN PASSAGEWAY IMPROVEMENTS.

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GAITHERSBURG, MARYLAND

CONTACT:
DIVISION OF TRANSPORTATION ENGINEERING
240-777-7220
DESIGN SECTION
240-777-7221

NO.	REVISION	DATE	BY

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
ROCKVILLE, MARYLAND

RECOMMENDED FOR APPROVAL

Chief, Transportation Planning and Design Section — Date

APPROVED

Chief, Division of Transportation Engineering — Date

DESIGNED BY DB DRAWN BY JRA CHECKED BY EDJ

MONTGOMERY COUNTY
DEPARTMENT OF TRANSPORTATION
DIVISION OF TRANSPORTATION ENGINEERING

FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

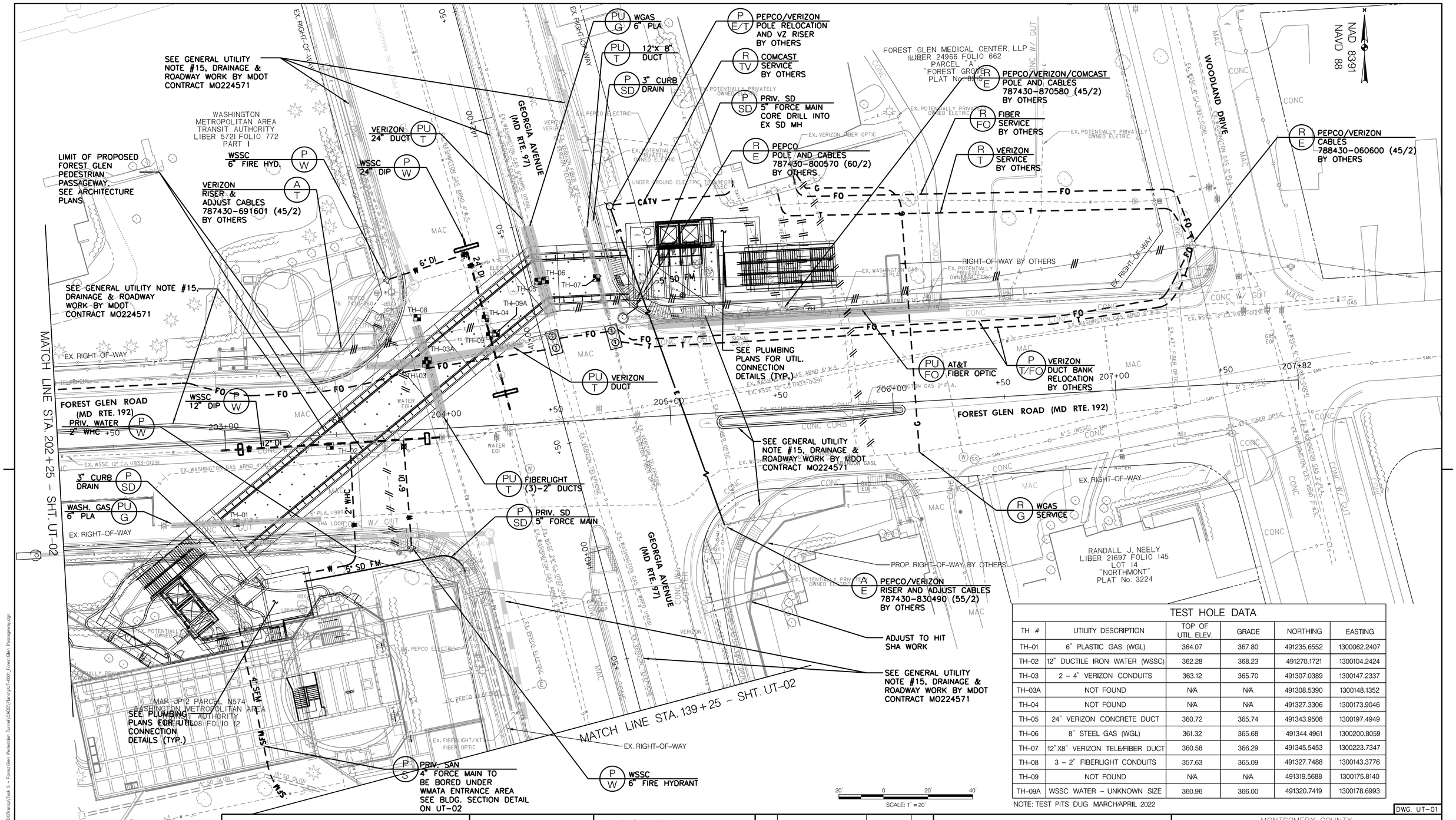
LEGEND AND GENERAL NOTES

SCALE 1"=20' DATE OCTOBER 2024

DWG. UT-00

PLOTTED: 10/17/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pUT-0000_Forest Glen Passageway.dgn

PLOTTED: 10/17/2024
FILE: \\ad.rkk.com\fs\Cloud\Projects\2020\20097_MCDOTransp\Task 5 - Forest Glen Pedestrian Tunnel\CADD\Plans\pUT-0000_Forest Glen Passageway.dgn



TEST HOLE DATA

TH #	UTILITY DESCRIPTION	TOP OF UTIL. ELEV.	GRADE	NORTHING	EASTING
TH-01	6" PLASTIC GAS (WGL)	364.07	367.80	491235.6552	1300062.2407
TH-02	12" DUCTILE IRON WATER (WSSC)	362.28	368.23	491270.1721	1300104.2424
TH-03	2 – 4" VERIZON CONDUITS	363.12	365.70	491307.0389	1300147.2337
TH-03A	NOT FOUND	N/A	N/A	491308.5390	1300148.1352
TH-04	NOT FOUND	N/A	N/A	491327.3306	1300173.9046
TH-05	24" VERIZON CONCRETE DUCT	360.72	365.74	491343.9508	1300197.4949
TH-06	8" STEEL GAS (WGL)	361.32	365.68	491344.4961	1300200.8059
TH-07	12"X8" VERIZON TELE/FIBER DUCT	360.58	366.29	491345.5453	1300223.7347
TH-08	3 – 2" FIBERLIGHT CONDUITS	357.63	365.09	491327.7488	1300143.3776
TH-09	NOT FOUND	N/A	N/A	491319.5688	1300175.8140
TH-09A	WSSC WATER – UNKNOWN SIZE	360.96	366.00	491320.7419	1300178.6993

NOTE: TEST PITS DUG MARCH/APRIL 2022

DWG. UT-01

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PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.
EXPIRATION DATE:

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DEPARTMENT OF TRANSPORTATION
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FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

UTILITY COMPOSITE PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. UT-01 SHEET NO. 182 OF 183

PLOTTED: 10/21/2024
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SEE GENERAL UTILITY NOTE #15, DRAINAGE & ROADWAY WORK BY MDOT CONTRACT MO224571

MATCH LINE STA. 202+25 – SHT. UT-01

FOREST GLEN ROAD (MD RTE. 192)

COLERIDGE DRIVE

ELLIS STREET

GEORGIA AVENUE (MD RTE. 97)

MATCH LINE STA. 139+25 – SHT. UT-01

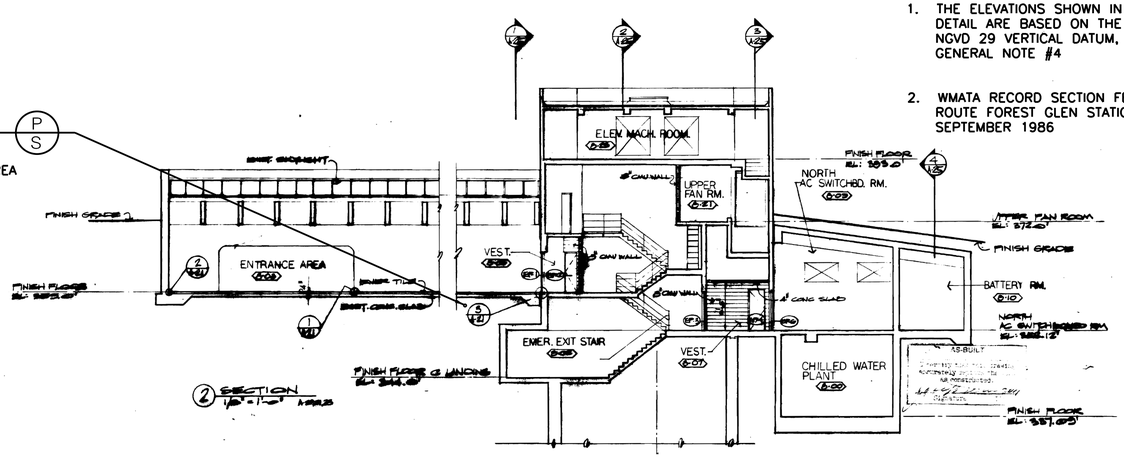
TRUSTEES OF MONTGOMERY HILL BAPTIST CHURCH, INC.
LIBER 27309 FOLIO 297
PARCEL "A"
"NORTHMONT"
PLAT No. 4569

PRIV. SAN
4" FORCE MAIN TO BE BORED UNDER WMATA ENTRANCE AREA

PRIV. SAN ALTERNATIVE
4" FORCE MAIN TO BE BORED UNDER WMATA ENTRANCE AREA. INSTALL NEW 4" WYE AND PVC PIPE CONN AT EXISTING MH.

1. THE ELEVATIONS SHOWN IN THIS DETAIL ARE BASED ON THE WMATA NGVD 29 VERTICAL DATUM, SEE UTILITY GENERAL NOTE #4

2. WMATA RECORD SECTION FB9 GLENMOUNT ROUTE FOREST GLEN STATION AND LINE 1B3091, SEPTEMBER 1986



WMATA ENTRANCE AREA
BUILDING SECTION DETAIL
NTS

SCALE: 1" = 20'

NAD 8391
NAVD 88

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DEPARTMENT OF TRANSPORTATION
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FOREST GLEN PEDESTRIAN PASSAGEWAY
GEORGIA AVENUE (MD 97)
AT FOREST GLEN ROAD (MD 192)

UTILITY COMPOSITE PLAN

SCALE 1"=20' DATE OCTOBER 2024

DWG. UT-02 SHEET NO. 183 OF 183

DWG. UT-02

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