PURDY'S STATION IMPROVEMENTS

100% DESIGN SUBMISSION

CONTRACT 1000106733

LOCATION MAP

NOT TO SCALE

Metro-North Railroad

NEW YORK STATE STANDARD SHEETS
NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SHEET NO.	DRAWING DESCRIPTION
606-6	CORRUGATED BEAM GUIDE RAILING
607-10	CHAN LINK FENCE WITH TOP RAIL

100% DESIGN SUBMISSION
NOVEMBER 20, 2019

DRAWING NO. G-101

SHEET NO.		DRAWING NO.	DESCRIPTIONS
	GENERAL		
1		G-101	COVER SHEET
2		G-102	DRAWING LIST
3		G-104	GENERAL NOTES 1
4		G-105	GENERAL NOTES 2
5		G-106	SITE SURVEY PLAN 1 OF 2
6		G-107	SITE SURVEY PLAN 2 OF 2
	CIVIL		
7		C-100	GENERAL NOTES
8		C-101	DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN
9		C-102	PROPOSED CIVIL SITE PLAN
10		C-103	CIVIL DETAILS 1 OF 2
11		C-104	CIVIL DETAILS 2 OF 2
12		NOT USED	
	ARCHITECTURAL		
13		A-001	ABBREVIATIONS & SYMBOL
14		A-002	GENERAL NOTES & CODE ANALYSIS
15		A-003	SYSTEM AND FINISH SCHEDULE
16		A-004	TYPICAL ACCESSIBILITY DETAILS
17		A-011	OVERALL ARCH SITE PLAN
18		A-101	DEMOLITION PLAN
19		A-111	STATION LEVEL PLAN
20		A-121	PEDESTRIAN BRIDGE LEVEL PLAN & ROOF LEVEL PLAN
21		A-201	ELEVATIONS
22		A-301	SECTIONS
23		A-501	WALL SECTIONS
24		A-601	MISCELLANOUS DETAILS
25		A-602	GLASS CLADDINGS
26		A-603	AWNING AND WIND SCREEN DETAILS
27		A-604	ENLARGED PLAN DETAILS
28		A-605	ENLARGED SECTION DETAILS
29		A-606	TYPICAL METAL ROOFING DETAILS
	STRUCTURAL		
30		S-101	STRUCTURAL NOTES - 1
31		S-102	STRUCTURAL NOTES - 2
32		S-111	STATION FOUNDATION PLAN
33		S-121	PEDESTRIAN BRIDGE LEVEL PLAN
34		S-122	PEDESTRIAN BRIDGE ROOF LEVEL PLAN
35		S-123	ELEVATOR ROOF LEVEL PLAN
36		S-201	ELEVATIONS
37		S-202	DETAIL ELEVATION
38		S-203	DETAILS
39		S-204	TYPICAL MASONRY DETAILS
	MECHANICAL		
40		M-001	GENERAL NOTES
41		M-002	ABBREVIATIONS AND SYMBOLS
42		M-201	STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN
43		M-501	SCHEDULES
44		M-601	DETAILS
	ELECTRICAL		
45		E-001	GENERAL NOTES, SYMBOLS AND LEGENDS AND LIGHTING FIXTURE SCHEDULE
46		E-100	STATION LEVEL POWER MODIFICATION PLAN
47		E-200	STATION LEVEL NEW ELEVATOR MACHINE ROOM POWER PLANT PLAN
47A		E-201	LIGHTING - PART PLANS
48		E-300	NEW RISER DIAGRAM
49		E-400	PANEL SCHEDULES
50		E-500	DETAILS SHEET 1 OF 3
51		E-501	DETAILS SHEET 2 OF 3
52		E-502	DETAILS SHEET 3 OF 3

SHEET NO.		DRAWING NO.	DESCRIPTIONS
	FIRE ALARM		
53		FA-100	FIRE ALARM PLAN & RISER DIAGRAM
54		FA-101	FIRE ALARM PLAN MATRIX SYSTEM
	LIGHTING		
55		L-101	PROPOSED LIGHTING PLAN
	PLUMBING		
56		P-001	LEGEND, NOTES AND SYMBOLS
57		P-201	STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN
58		P-501	SCHEDULES
59		P-601	DETAILS
	PASSENGER ELEVATOR		
60		VT101	GENERAL NOTES
61		VT102	PASSENGER ELEVATOR PLAN, MACHINE ROOM AND SCHEDULE
62		VT103	PASSENGER ELEVATOR PIT PLAN, SECTION AND REACTIONS
63		VT104	PASSENGER ELEVATOR DETAILS
64		VT105	PASSENGER ELEVATOR CAB PLAN AND REFLECTED CEILING PLAN
65		VT106	PASSENGER ELEVATOR ENTRANCE SECTIONS AND DETAILS
66		VT107	PASSENGER ELEVATOR FIXTURE DETAILS
	COMMUNICATIONS		
67		COM-001	COMMUNICATIONS SYSTEM GENERAL NOTES
68		COM-100	OVERALL COMMUNICATIONS SYSTEMS DIAGRAM
69		COM-200	INTERCOM SYSTEM DEVICE AND CONDUIT LAYOUT - STATION LEVEL
70			NOT USED
71		COM-210	SECURITY SYSTEMS DEVICE AND CONDUIT LAYOUT - OVERPASS LEVEL
72		COM-211	SECURITY SYSTEMS DEVICE AND CONDUIT LAYOUT - STATION LEVEL
73		COM-310	CCTV CAMERA MOUTING DETAILS
74		COM-311	CCTV POD MOUNTING DETAILS
75		COM-312	CCTV POD ENCLOSURE DETAILS
76			NOT USED

100% DESIGN SUBMISSION

DESIGNED AB									CONFORMED					
DRAWN YM														
CHECKED NM														
APPROVED TSE														
	NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
	REVISIONS						REVISIONS							

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS

PURDYS STATION
DRAWING LIST

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. G-102
SHEET 2 OF 76

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GENERAL REQUIREMENTS:

1. REFER TO "KEY PLAN AND ELEVATION" SHEET FOR A GENERAL DESCRIPTION OF THE WORK TO BE DONE.

2. THE WORK OF THIS CONTRACT IS TO TAKE PLACE IN AND AROUND AN OPERATIONAL RAILROAD, PRIVATE DEVELOPMENT AND PARKING FACILITIES. THE CONTRACTOR SHALL PROPERLY SECURE AT ALL TIMES ALL AREAS UNDER CONSTRUCTION TO PROTECT THE SAFETY OF THE GENERAL PUBLIC. WORK AREAS SHALL BE FENCED AND DELINEATED, INCLUDING APPROPRIATE DANGER AND CAUTIONARY SIGNAGE AS APPROVED BY MNR. THE SITE IS TO BE PROPERLY SECURED WITH TEMPORARY FENCING AT THE END OF EACH SHIFT, AS APPROVED BY MNR.

3. ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS, AS THEY MAY APPLY.

4. THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO CONDUCT HIS OPERATIONS IN A MANNER NOT TO CAUSE DISRUPTION IN THE USE OF ADJOINING PROPERTIES AND FACILITIES. THE CONTRACTOR SHALL MAINTAIN SAFE, CLEAN AND UNRESTRICTED ACCESS TO ALL PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES, AND INSTALL TEMPORARY FENCING, BARRICADES, AND PAVEMENT MARKINGS/STRIPING AND SIGNAGE AS REQUIRED.

5. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH METRO-NORTH RAILROAD'S REPRESENTATIVE AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.

6. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO BEGINNING WORK.

7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH VARIATION IN A TIMELY MANNER SO AS NOT TO IMPACT THE CONSTRUCTION SCHEDULE.

8. ALL NECESSARY PERMITS ARE TO BE SECURED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO, ANY WHICH MAY BE NECESSARY TO WORK IN AND ADJACENT TO PUBLIC STREETS, TO CONSTRUCT CONSTRUCTION DRIVEWAYS FOR SITE ACCESS, TO MAKE CONNECTIONS TO EXISTING SANITARY, STORM AND WATER FACILITIES, AND TO OBTAIN ENVIRONMENTAL PERMITS.

9. UNCLASSIFIED EXCAVATION INCLUDES, BUT IS NOT LIMITED TO, EXCAVATION REQUIRED FOR NEW FOUNDATIONS, MANHOLES, INLETS OR DRAINAGE PIPE. ALL VOIDS CREATED BY THE REMOVAL OF EXISTING STORM DRAINS AND SUBSURFACE STRUCTURES WILL BE BACKFILLED WITH SUITABLE UNCLASSIFIED EXCAVATION MATERIAL AS DIRECTED BY THE ENGINEER. IF NO SUITABLE UNCLASSIFIED EXCAVATION MATERIAL IS AVAILABLE IN THE OPINION OF THE ENGINEER, THE CONTRACTOR WILL PROVIDE SATISFACTORY SOIL MATERIAL MEETING THE REQUIREMENTS OF THE SPECIFICATIONS FOR USE AS BACKFILL. ALL EXCAVATION WILL COMPLY WITH N.Y.S. INDUSTRIAL CODE 53 AND OSHA REQUIREMENTS.

10. THE MNR REPRESENTATIVE RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE PROJECT CONTRACT DOCUMENTS, AS INTENDED AND INTERPRETED BY THE ENGINEER.

11. RESTORE SITE FEATURES DESTROYED OR MOVED TO PRE-CONSTRUCTION LOCATION AND USE. THIS SHALL INCLUDE FULL DEPTH ASPHALT PAVEMENT, CONCRETE SIDEWALK AND CURB REPLACEMENT, INCLUDING PLACEMENT, GRADING AND COMPACTION OF AGGREGATE SUBBASE, PLACEMENT OF ASPHALT CONCRETE BINDER AND TOP COURSES, CONSTRUCTION OF CONCRETE WALKS AND CURBING, AND LANDSCAPING.

GENERAL NOTES:

1. THE TERM "ENGINEER" SHALL BE DEFINED AS THE DESIGNATED REPRESENTATIVE OF METRO-NORTH HAVING DIRECT SUPERVISION FOR THE EXECUTION OF THE CONTRACT UNDER THE DIRECTION OF THE METRO-NORTH

2. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS. FAILURE TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK AS INTENDED BY THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL CORRECT ANY AND ALL UNWANTED WORK PERFORMED AS A RESULT FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO METRO-NORTH.

3. THE CONTRACTOR IS ALERTED TO THE FACT THAT THE OPERATION OF THE STATION AND EQUIPMENT MAY NOT BE DISRUPTED, THE SAFETY AND THE CONVENIENCE OF THE CUSTOMER IS CRITICAL. ALL WORK MUST BE COORDINATED WITH METRO-NORTH IN ACCORDANCE WITH THE REQUIREMENTS OF CONTRACT DOCUMENTS.

4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFEGUARDS NECESSARY TO PROTECT ALL PERSONS AND PROPERTY FROM INJURY OR DAMAGE DURING PERFORMANCE OF THE WORK IN ACCORDANCE WITH OSHA, STATE AND OTHER CODES AS APPLICABLE.

5. THE CONTRACTOR SHALL COORDINATE OPERATIONS AT ALL TIMES WITH METRO-NORTH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHALL NOT CAUSE ANY TRACK TO BE FOULED OR RAILROAD OPERATIONS TO BE DISRUPTED AT ANY TIME UNLESS SPECIFICALLY NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION STAGING AND PHASING PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY PERMITS FOR THE WORK FOR NO ADDITIONAL COST TO METRO-NORTH.

7. ACCESS TO THE WORK SITE AND STORAGE OF MATERIALS AND EQUIPMENT ON METRO-NORTH RIGHT-OF-WAY SHALL BE LIMITED TO THE DESIGNATED STAGING AREAS OR AS APPROVED BY THE ENGINEER.

8. NO PARKING SPACES SHALL BE TAKEN OUT OF SERVICE WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

9. ANY TEMPORARY FACILITIES, MEANS AND METHODS OF CONSTRUCTION REQUIRED BY THE CONTRACTOR TO EXECUTE THE WORK SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE CODE REQUIREMENTS IN EFFECT AND SHALL BE DESIGNED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NEW YORK STATE AS PART OF THE BASE CONTRACT WORK.

10. SHOULD ANY EXISTING CONDUITS BE REQUIRED TO BE TEMPORARY DISCONNECTED TO FACILITATE PLATFORM REPAIR WORK, THE CONTRACTOR SHALL COMMUNICATE THIS TO THE ENGINEER FOR COORDINATION. IT IS ALSO NOTED THAT THE CONTRACTOR WILL BE REQUIRED TO PROVIDE ANY TEMPORARY SUPPORT, PROTECTION, OR OTHERWISE SO AS TO ENSURE THAT THE CONDUITS IN QUESTION ARE PROPERLY SUPPORTED AND STABLE WHILE THE WORK IS EXECUTED.

11. THE CONTRACTOR'S ATTENTION IS BROUGHT TO THE FACT OF POSSIBLE PRESENCE OF HAZARDOUS MATERIALS AT THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INVESTIGATION AND ABATEMENT ARE DONE BY OTHERS. PRIOR COMMENCING TO REPAIR WORK THE CONTRACTOR SHALL CONTACT MNR REGARDING THE PRESENCE OF HAZARDOUS MATERIALS AND THEIR ABATEMENT.

12. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL COMPLETED REPAIRS TO PREVENT DAMAGE TO THEM.

PROTECTION OF WORK, PROPERTY AND PERSONNEL:

1. THE CONTRACTOR SHALL PROVIDE BARRIERS TO KEEP PEDESTRIAN AREAS AND TRACK AREAS CLEAN AND FREE FROM CONSTRUCTION DEBRIS AT ALL TIMES; PROVIDE DUMPSTERS FOR DEBRIS REMOVAL. THE WORK AREA SHALL BE CLEANED AT THE END OF EACH WORKDAY.

2. ALL CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE REQUIRED TO ATTEND SAFETY ORIENTATION GIVEN BY METRO-NORTH (REFER TO ARTICLE 1.20). PROOF OF ATTENDANCE AT THIS SAFETY TRAINING SHALL BE CONSPICUOUSLY DISPLAYED AT ALL TIMES WHILE ON METRO-NORTH PROPERTY. THE CONTRACTOR IS ADVISED THAT CERTAIN ACTIVITIES WILL REQUIRE METRO-NORTH PROTECTIVE PERSONNEL OR TRACK OUTAGES. REFER TO ARTICLE 1.22 FOR ADDITIONAL INFORMATION CONCERNING REQUIREMENTS FOR WORK WITHIN OR ADJACENT TO THE METRO-NORTH RIGHT-OF-WAY.

3. FURNISH AND INSTALL SCAFFOLDING FOR USE AS A SHIELD AND A WORK PLATFORM FOR THE WORK AS SHOWN IN THE CONTRACT DRAWINGS. PRIOR TO INSTALLATION, SUBMIT TO MNR FOR APPROVAL A DESIGN SIGNED AND SEALED BY A NY STATE PROFESSIONAL ENGINEER IN ACCORDANCE WITH MNR REQUIREMENTS.

4. FURNISH TEMPORARY BARRIERS, WHICH ARE TO BE SOLID WALL, RIGID, FIXED, TRAIN SHIELDING SAFETY STRUCTURES, AND CONSTRUCT ALONG ALL LENGTHS AS SHOWN ON THE CONTRACT DRAWINGS ALONG THE WORK ZONE TO PROTECT TRAINS AGAINST INTERFERENCE AND TO PROTECT PEDESTRIANS AND WORKERS FROM FOULING THE TRACKS, INCLUDING FOULING FROM FALLING TOOLS, MATERIALS AND OTHER OBJECTS DURING CONSTRUCTION. PRIOR TO INSTALLATION, SUBMIT TO MNR FOR APPROVAL A DESIGN SIGNED AND SEALED BY A NY STATE PROFESSIONAL ENGINEER IN ACCORDANCE WITH RAILROAD REQUIREMENTS.

5. THE CONTRACTOR SHALL PROTECT EXISTING SURVEYING AND PROPERTY LINE MONUMENTATION. ANY EXISTING SURVEYING AND PROPERTY LINE MONUMENTATION THAT IS DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR METRO-NORTH RAILROAD, WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.

100% DESIGN SUBMISSION

DESIGNED: AB
DRAWN: YM
CHECKED: NM
APPROVED: TSE

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

REVISIONS — REVISIONS

AECOM

Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE: METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES - 1

CONTRACT NO. 1000106733
SCALE: AS NOTED
DATE: 11-20-2019
DRAWING NO. G-104
SHEET 3 OF 76

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DEMOLITION NOTES:

1. THE CONTRACTOR SHALL MAINTAIN THE SAFETY AND PROTECTION OF THE GENERAL PUBLIC DURING DEMOLITION ACTIVITIES.
2. ALL DEMOLITION WORK SHALL BE COORDINATED WITH METRO-NORTH.
3. REFER TO METRO-NORTH SGR AND TECHNICAL SPECIFICATIONS PROVISIONS REGARDING TRACK OUTAGE AND OTHER METRO-NORTH RESTRICTIONS.
4. THE CONTRACTOR SHALL NOT ALLOW DEMOLISHED OR REMOVED MATERIALS TO DROP, FALL OR IMPACT AGAINST STRUCTURES TO REMAIN, TRAINS, VEHICLES, EQUIPMENT, CABLES, WIRES OR RAILROAD TRACKS AND SHALL PROTECT ALL STRUCTURES TO REMAIN FROM DAMAGE OF ANY KIND. ANY PRIOR DAMAGE TO EXISTING RAILROAD FACILITIES SHALL BE DOCUMENTED BY THE CONTRACTOR BEFORE THE START OF THE PROJECT BY USE OF DIGITALLY DATE STAMPED PHOTOS AND VIDEOS WITNESSED BY THE ENGINEER.
5. THE CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIAL PROMPTLY FROM SITE TO A METRO-NORTH APPROVED DISPOSAL SITE.
6. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY WARNING AND INFORMATIONAL SIGNAGE DURING CONSTRUCTION INCLUDING TWO (2) PROJECT SIGNS AT EACH SITE AS ORDERED BY THE ENGINEER.
7. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS AND PROCEDURES FOR THE ENGINEER'S APPROVAL SIX (6) WEEKS PRIOR TO DEMOLITION. DEMOLITION WORK SHALL NOT BEGIN UNTIL DEMOLITION DOCUMENTS HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER.
8. DEMOLITION AND SITE CLEARING INCLUDES BUT IS NOT LIMITED TO THE REMOVAL OF STEEL STAIRCASE, TREES, BRUSH, ROOTS, DEBRIS, VEGETATION, POLES, VAULTS, FOOTINGS, UTILITIES, PAVEMENT, FENCES AND ALL OTHER ITEMS REQUIRED TO CONSTRUCT THE PROJECT AND/OR AS SHOWN IN THE PLANS.

SNOW AND ICE CONTROL NOTES:

1. ICE AND SNOW EVENTS ARE TREATED AS EMERGENCY EVENTS BY MNR. AS SUCH WHEN DIRECTED BY MNR, THE CONTRACTOR SHALL VACATE HIS OPERATIONS PRIOR TO A FORECASTED ICE/SNOW EVENT, OR ONCE A SNOW/ICE EVENT OCCURS AND UPON DEMAND BY MNR, THE CONTRACTOR SHALL IMMEDIATELY SUSPEND OPERATIONS AND PROVIDE IMMEDIATE ACCESS SO MNR FORCES CAN PROVIDE SAFE PASSAGE TO EMPLOYEES AND CUSTOMERS.
2. METRO-NORTH IS RESPONSIBLE FOR SNOW REMOVAL AND ICE CONTROL REQUIREMENTS ON THE PLATFORM(S). THE CONTRACTOR SHALL COORDINATE IT'S OPERATIONS WITH METRO-NORTH UNDER THESE CIRCUMSTANCES.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL SNOW AND ICE REMOVAL TO PERFORM THEIR WORK ON THE PLATFORM(S).
4. IF METRO-NORTH IS DELAYED OR UNABLE TO PERFORM SNOW AND ICE REMOVAL OPERATIONS THEN THE CONTRACTOR IS RESPONSIBLE. FOR SNOW AND ICE REMOVAL TO ACCESS HIS WORK SITE.
5. CONTRACTOR IS RESPONSIBLE FOR SNOW REMOVAL AND ICE CONTROL ON ALL TEMPORARY WALKWAYS OR DETOURS.

SITE SAFETY NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ACCESS UPON DEMAND AT ALL TIMES FOR METRO-NORTH PERSONNEL, EQUIPMENT AND EMERGENCY SERVICES.
2. MATERIALS STORED ON SITE SHALL BE OSHA CLASSIFIED NON-HAZARDOUS/ NON-FLAMMABLE/ NON-COMBUSTIBLE. OSHA CLASSIFIED HAZARDOUS MATERIALS SHALL BE PROTECTED OR REMOVED FROM THE SITE AS ORDERED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PROVIDE METRO-NORTH WITH MATERIAL SAFETY DATA SHEETS (SDS) FOR ANY CHEMICALS OR FUELS ON-SITE.
4. FUEL STORAGE OR COMPRESSED CYLINDER STORAGE SHALL BE IN CONFORMANCE WITH NYS, LOCAL FIRE REGULATIONS AND METRO-NORTH RAILROAD FIRE BRIGADE REQUIREMENTS.
5. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY AT ALL TIMES.
6. IF REQUIRED, THE CONTRACTOR SHALL APPLY FOR HOT WORK PERMIT THROUGH METRO-NORTH. HOT WORK PERMITS WILL BE REQUIRED FOR, BUT NOT LIMITED TO, WELDING, DRILLING, ABRASION, SAW CUTTING OR ANY ACTIVITY THAT CREATES A SPARK.
7. THE CONTRACTOR SHALL ESTABLISH A METRO – NORTH APPROVED FIRE WATCH WHENEVER HOT WORK IS IN PROGRESS.
8. THE CONTRACTOR SHALL PROVIDE A "LOOK AHEAD SCHEDULE" LISTING APPLICABLE SAFE WORK PLANS AND "HOLD POINTS".
9. ON-SITE DUMPSTERS PROVIDED BY THE CONTRACTOR FOR NON-COMBUSTIBLE CONSTRUCTION DEBRIS SHALL BE LIMITED TO A TOTAL OF 3 CY, HAVE A SECURED COVER AS APPROVED BY METRO-NORTH. THEY WILL BE EMPTIED BY THE CONTRACTOR ON A REGULAR BASIS OR AS DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR SHALL PROVIDE TWO (2) ABC FIRE EXTINGUISHERS APPROVED BY METRO-NORTH WITHIN TEN (10) FEET OF THE WORK AREA READILY AVAILABLE FOR USE BY WORKERS IN AN EMERGENCY.

WORKERS SAFETY NOTES:

1. ALL WORKERS EMPLOYED BY THE CONTRACTOR OR IT'S SUBCONTRACTORS ON THE SITE SHALL BE METRO-NORTH TRACK SAFETY TRAINED, DISPLAY A METRO-NORTH APPROVED PHOTO IDENTIFICATION AND POSSES OSHA-10 CERTIFICATION. THEY SHALL WEAR APPROVED PERSONAL PROTECTION EQUIPMENT (PPE) ALL TIMES THEY ARE AT THE SITE.
2. THE CONTRACTOR SHALL ASSIGN A DEDICATED AND QUALIFIED FLAGSPERSON/ESCORT TO PROTECT CUSTOMERS, WORKERS, AND THE PUBLIC WHENEVER CONSTRUCTION IS IN PROGRESS AS ORDERED BY THE ENGINEER.
3. THE CONTRACTOR IS ALERTED TO THE NEED TO NOTIFY AND SCHEDULE A METRO-NORTH FLAGPERSON FOR ANY WORK BEING PERFORMED ON THE PLATFORM. FLAGSPERSONS MUST BE SCHEDULED A MINIMUM OF TWO (2) WEEKS PRIOR TO NEED THROUGH METRO-NORTH. EVERY EFFORT WILL ME MADE TO ACCOMMODATE THE CONTRACTOR'S NEED BUT DUE TO COMPETING PRIORITIES ON THE RAILROAD THE FLAGPERSONS AVAILABILITY CANNOT BE GUARANTEED. SEE METRO-NORTH SGR.
4. IF THE CONTRACTOR SCHEDULES FLAGGER(S) AND IN METRO-NORTH'S OPINION DOES NOT FULLY UTILIZE HIM/HER IN AN EFFICIENT MANNER, METRO-NORTH RESERVES RIGHTS TO BACKCHARGE THE CONTRACTOR FOR UNPRODUCTIVE USE.

STAGING AND PHASING NOTES:

1. STATION TO REMAIN OPEN TO PASSENGERS AT ALL TIMES EXCEPT WORK ZONE.
2. FOR TRACK OUTAGES, REFER TO SPECIFICATION.
3. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL REQUIRED SIGNAGE FOR CUSTOMER DETOURS NEEDED DURING STAIR/PLATFORM/OVERPASS CLOSURES. A PLAN SHOWING ALL PROPOSED SIGNAGE INFORMATION AND INSTALLATION LOCATIONS SHALL BE SUBMITTED TO METRO-NORTH FOR APPROVAL. SIGNS SHALL BE PLYWOOD WITH REFLECTIVE BACKGROUND AND BLACK LETTERING/SYMBOLS.
4. RAILROAD PROTECTIVE PERSONNEL (FLAGMEN) WILL BE REQUIRED AT ALL TIMES WHEN THE CONTRACTOR IS WORKING ON THE PLATFORM. REQUESTS FOR RAILROAD FLAGMEN SHALL BE MADE IN ACCORDANCE WITH METRO-NORTH REQUIREMENTS.

UTILITIES:

1. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES AND SERVICES THROUGHOUT THE EXECUTION OF WORK.
2. PRIOR TO THE START OF ANY EXCAVATION THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES WITHIN THE AREA OF WORK BY CONTRACTING EXPLORATORY TEST PITS. THE CONTRACTOR SHALL CONTACT THE "UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION" AT 1-800-962-7962 AND ANY OTHER AFFECTED UTILITY COMPANIES FOR UTILITY MARK-OUT PRIOR TO THE COMMENCEMENT OF WORK.
3. MARK-OUT ALL UTILITIES, COORDINATE WITH ALL UTILITY OWNERS FOR ALL REMOVAL AND DISCONNECTION WORK, IF ANY, INCLUDING RELOCATION OF EXISTING UTILITIES AND ASSOCIATED OVERHEAD UTILITY LINES. THIS WORK SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION OR DEMOLITION WORK. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH AND OBTAIN ALL NECESSARY PERMITS OR APPROVALS FROM APPROPRIATE UTILITY COMPANIES, GOVERNMENT AGENCIES AND METRO-NORTH RAILROAD.
4. WHERE CONSTRUCTION CROSSES OR IS ADJACENT TO EXISTING UTILITY LINES THE CONTRACTOR SHALL CAREFULLY HAND EXCAVATE SO AS TO LOCATE, MARK AND PROTECT THE UTILITY LINES AGAINST DISTURBANCE OR DAMAGE BY PROVIDING ADEQUATE SUPPORT AND PROTECTION AS APPROVED BY THE UTILITY OWNER AND MNR.
5. EXERCISE EXTREME CAUTION IN THE AREA OF THE EXISTING UTILITIES. ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY, BASED ON AVAILABLE INFORMATION. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR DETERMINING THE EXACT LOCATIONS OF ALL UTILITIES OF THE RAILROAD, LOCAL MUNICIPALITIES, UTILITY COMPANIES AND PRIVATE OWNERS. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS, INCLUDING DIGGING TEST PITS AND USING HAND EXCAVATION, AND SHALL BE RESPONSIBLE FOR THE PROTECTION OF WATER MAINS AND ALL OTHER UTILITIES DURING ALL CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMMEDIATE RESTORATION TO SERVICE AND FACILITATE DAMAGE REPAIR SHOULD ANY SERVICE INTERRUPTIONS OCCUR AS A RESULT OF THE CONTRACTOR'S OPERATIONS.
6. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING ADJACENT TO ACTIVE POWER AND COMMUNICATION LINES TO PREVENT DAMAGE TO THESE LINES. THE CONTRACTOR SHALL REPAIR ANY POWER OR COMMUNICATION INTERRUPTION IMMEDIATELY.
7. THE CONTRACTOR SHALL RECORD MEASUREMENTS TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES, AND INVERTS.
8. EXISTING UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN DETERMINED BY STANDARD SURVEYING METHODS AND AVAILABLE RECORD PLANS. THE LOCATION SHOWN FOR THESE UTILITIES ARE APPROXIMATE AND MAY BE INCOMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UTILITIES, SURVEY AND OBTAINING ANY PERMITS REQUIRED.
9. EXISTING DIMENSIONS, OFFSETS, INVERTS, RADII, ETC. WILL BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION ACTIVITY. ANY DISCREPENCY WILL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
10. WHERE CONSTRUCTION CROSSES OR IS WITHIN 10 FEET OF AN EXISTING ELECTRIC UTILITY LINE, THE CONTRACTOR WILL CAREFULLY HAND EXCAVATE TO LOCATE, MARK AND PROTECT THE ELECTRIC LINE AGAINST DISTURBANCE OR DAMAGE BY PROVIDING ADEQUATE SUPPORT AND PROTECTION AS APPROVED BY THE DESIGN ENGINEER. THE CONTRACTOR WILL REPAIR ANY ELECTRIC POWER INTERRUPTION IMMEDIATELY.

100% DESIGN SUBMISSION

DESIGNED	AB
DRAWN	YM
CHECKED	NM
APPROVED	TSE

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS — REVISIONS

AECOM

Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE: METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES - 2

CONTRACT NO. 1000106733
SCALE: AS NOTED
DATE: 11-20-2019
DRAWING NO. G-105
SHEET 4 OF 76

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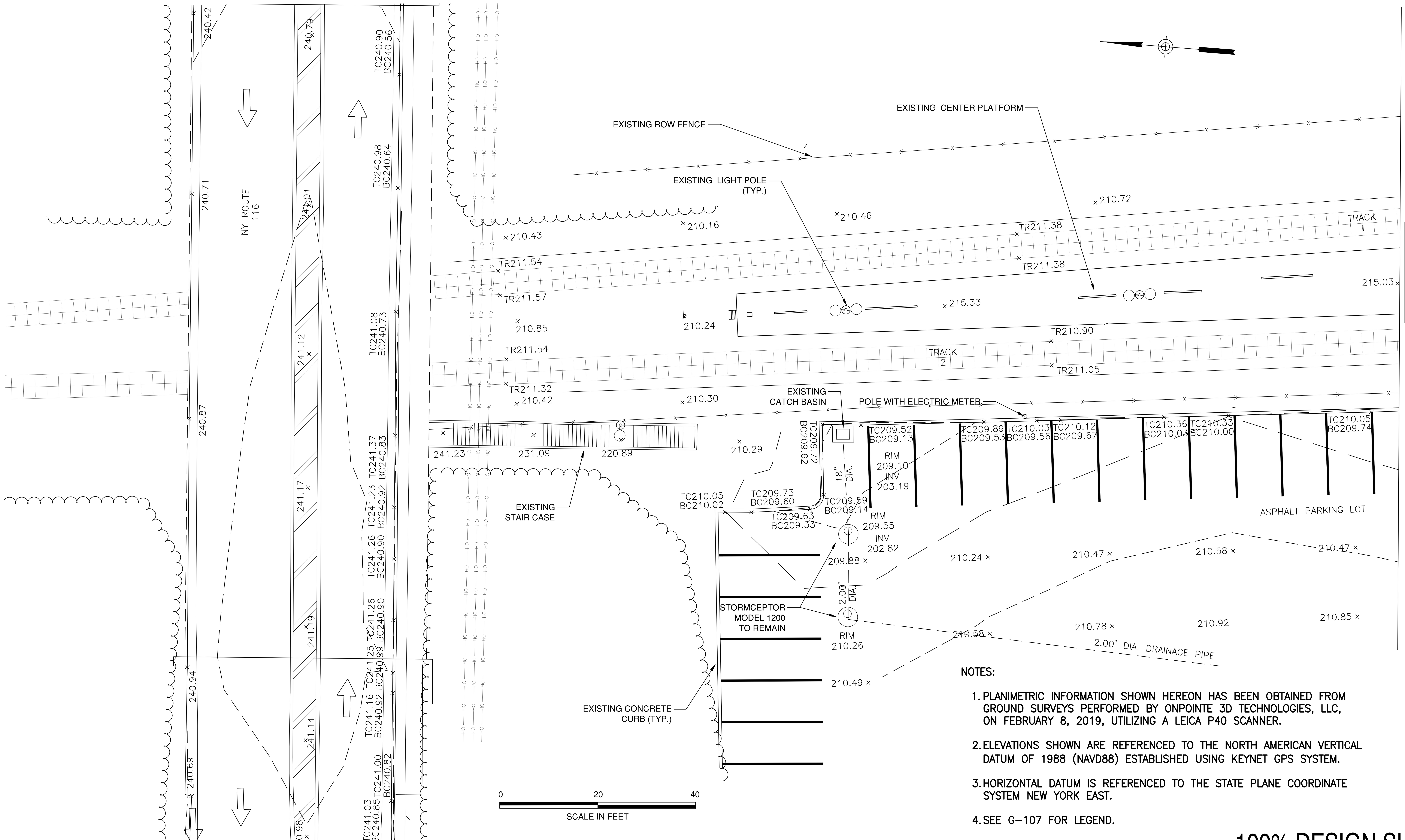

NOTES:

1. PLANIMETRIC INFORMATION SHOWN HEREON HAS BEEN OBTAINED FROM GROUND SURVEYS PERFORMED BY ONPOINTE 3D TECHNOLOGIES, LLC, ON FEBRUARY 8, 2019, UTILIZING A LEICA P40 SCANNER.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ESTABLISHED USING KEYNET GPS SYSTEM.
3. HORIZONTAL DATUM IS REFERENCED TO THE STATE PLANE COORDINATE SYSTEM NEW YORK EAST.
4. SEE G-107 FOR LEGEND.

100% DESIGN SUBMISSION

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AECOM

OnPointe 3D Technologies, LLC

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
SITE SURVEY PLAN
1 of 2

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. G-106
SHEET 5 OF 76

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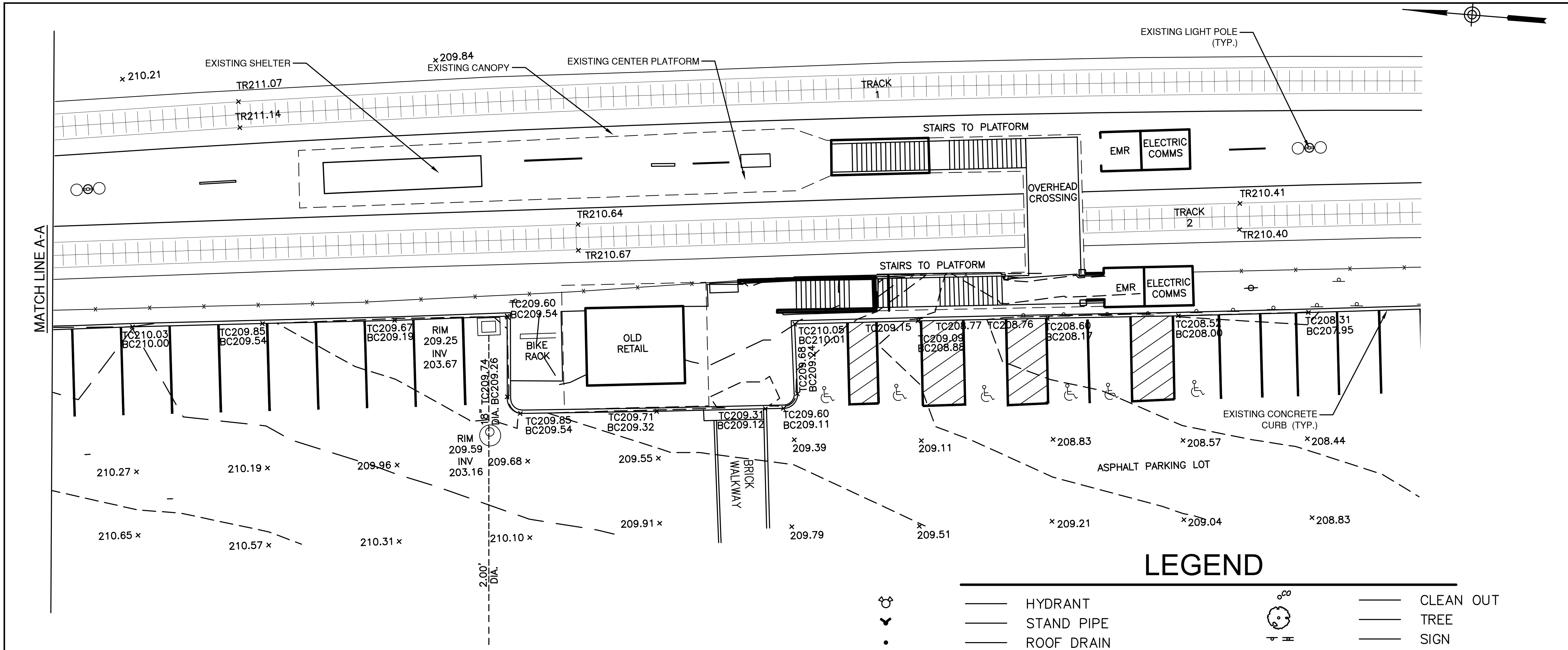

LEGEND

HYDRANT	CLEAN OUT
STAND PIPE	TREE
ROOF DRAIN	SIGN
FLAG POLE	BOLLARD
PEDESTAL LIGHT	ELECTRIC BOX
STREET LIGHT	ELECTRIC METER
AREA LIGHT	GAS METER
SIGNAL POLE	WATER METER
POWER POLE	TELEPHONE BOX
GUY WIRE	TRAFFIC SIGNAL POLE
ANCHOR POLE	MONITOR WELL
MANHOLE (TYPE AS LABELED)	DRAINAGE PIPE
WATER VALVE	ELECTRIC/IT
GAS VALVE	DRAIN CLEAN OUT
UNKNOWN VALVE	STORM CEPTOR
CATCH BASIN	
x322.35 SPOT ELEVATION	

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SCALE IN FEET

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	REVISIONS						REVISIONS				

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OnPointe 3D Technologies, LLC

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
SITE SURVEY PLAN
2 OF 2

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. G-107
SHEET 6 OF 76

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GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, METRO-NORTH RAILROAD, AND ADA REGULATIONS AND GUIDELINES, WHETHER OR NOT SPECIFICALLY STATED ON THE DRAWINGS OR SPECIFICATIONS.
2. PORTIONS OF WORK ARE SUBJECT TO THE RULES AND REGULATIONS OF MUNICIPAL DEPARTMENTS. COMPLETE WORKING DRAWINGS FOR MUNICIPAL ITEMS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK. EXECUTE WORK IN COMPLIANCE WITH THE LOCAL AGENCY THAT HAS JURISDICTION.
3. ACQUIRE LOCAL PERMITS AND PERFORM AGENCY COORDINATION. THIS MAY INCLUDE COORDINATING WITH AND ACQUIRING PERMITS FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, DEPARTMENT OF ENVIRONMENTAL CONSERVATION, OFFICE OF CONSTRUCTION, AND OTHERS AS MAY BE NECESSARY.
4. THE CONTRACTOR MUST GIVE 72 HOURS NOTICE TO THE AFFECTED UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK.
5. PROTECT ALL EXISTING UTILITIES TO REMAIN IN PLACE. ANY DAMAGED UTILITIES SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER OF THE UTILITY, OR METRO-NORTH RAILROAD.
6. VERIFY THE LOCATION AND ELEVATION OF UNDERGROUND UTILITIES, MANHOLE INVERTS, RIMS, AND OTHER UTILITY FEATURES PRIOR TO EXCAVATION. PROVIDE HAND EXCAVATION TEST PITS TO LOCATE AND MARK UTILITIES. CONTRACTOR IS LIABLE FOR AND RESPONSIBLE FOR THE PROMPT REPAIR OF ANY DAMAGED UTILITIES.
7. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING AND SHALL HAND EXCAVATE WITHIN ONE FOOT OF EXISTING UTILITIES.
8. CALL DIG SAFELY NEW YORK AT 1-800-272-4480 FOR UTILITY LOCATES AND TO COORDINATE WITH LOCAL UTILITY OWNERS PRIOR TO EXCAVATING. EACH AGENCY MUST BE CONTACTED SEPARATELY BY THE CONTRACTOR AS REQUIRED.
9. METRO-NORTH RAILROAD OPERATIONS SHALL BE NOTIFIED THREE DAYS BEFORE COMMENCEMENT OF CONSTRUCTION. NO PERMIT SHALL BE ISSUED UNLESS THE APPLICANT HAS ON FILE ALL INSURANCE AND WORKER'S COMPENSATION AS REQUIRED BY LAW, AND IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE NYSDOT. ALL PERMITS MUST BE OBTAINED PRIOR TO COMMENCING ANY SIDEWALK, CURB OR ROADWAY PAVEMENT WORK.
10. PREPARE AND FILE UTILITY DISCONNECT ORDERS OR NEW CONNECTION REQUESTS FOR WATER, TELECOMMUNICATIONS, ELECTRIC, SEWER, AND GAS LINES FOR AFFECTED FACILITIES.
11. PROVIDE TEMPORARY WORK LIMITS FENCING IN COMPLIANCE WITH LOCAL REGULATIONS.
12. VERIFY IN THE FIELD ALL DIMENSIONS PROVIDED IN THE PLANS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
13. IF NOT OTHERWISE IDENTIFIED IN THE PLANS, RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION.
14. PROVIDE NEW CURB, SIDEWALK, ROADWAY AND PEDESTRIAN RAMP AFFECTED BY UTILITY WORK, AS PER NYSDOT STANDARDS.
15. ALL NEW PAVEMENTS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT THE DIRECTION OF THE ENGINEER. IN CONSULTATION WITH THE MNR ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A SAFE CONSTRUCTION AREA, BY PROVIDING FOR PEDESTRIAN AND VEHICULAR TRAFFIC FLOW AROUND THE CONSTRUCTION SITE IN ACCORDANCE WITH NYSDOT AND MUTCD GUIDELINES.
16. PAVEMENT AND CURB INSTALLATIONS ARE TO MEET EXISTING ADJACENT CONDITIONS WITH NO TRIP HAZARDS.
17. ALL PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION, INCLUDING THERMOPLASTIC LANE DIVIDERS, SHALL BE REPLACED IN KIND TO NYSDOT STANDARDS, UNLESS OTHERWISE NOTED.
18. COMPLETE ALL WORK WITHIN THE WORK LIMITS IDENTIFIED IN THE PLANS, AND IN COORDINATION WITH THE APPROPRIATE LOCAL AGENCY HAVING JURISDICTION. NOTIFY THE ENGINEER IF WORK CAN NOT BE COMPLETED WITHIN THE WORK LIMITS IDENTIFIED, PRIOR TO WORK BEING COMPLETED IN THAT AREA.
19. MAINTAIN COMPLIANCE WITH NEW YORK FIRE PREVENTION CODE (CHAPTER 27). MAINTAIN FIRE FIGHTING EQUIPMENT AS DIRECTED BY THE GOVERNING LOCAL AGENCY.
20. COMPLY WITH 2015 IBC WITH 2017 NYSBC SUPPLEMENT, AND OSHA CONSTRUCTION STANDARDS.
21. IF REQUIRED, PROVIDE A SHEETING AND SHORING PLAN TO MNR PRIOR TO CONDUCTING WORK. SHEETING AND SHORING PLAN SHALL BE SIGNED BY A NEW YORK PROFESSIONAL ENGINEER AND SHALL INDICATE CONSTRUCTION REQUIREMENTS FOR COMPLIANCE WITH OSHA AND NEW YORK REQUIREMENTS. CONTRACTOR'S "COMPETENT PERSON" SHALL PERFORM DAILY INSPECTIONS AND DOCUMENTATION.
22. LIMITS OF CONSTRUCTION AS SHOWN IN PLANS ARE APPROXIMATE. COORDINATE WITH MNR ON EXACT LIMITS AND ANY MODIFICATIONS.
23. CATCH BASINS IN AND ADJACENT TO THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID CLOGGING CATCH BASINS WITH DEBRIS DURING THE CONTRACTOR'S OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITIONS OCCURS OR IN THE EVENT THE CONTRACTOR'S OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
24. ALL DAMAGE CAUSED BY THE CONTRACTOR'S WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
25. OBTAIN REQUIRED PERMITS FOR WORKING ON PUBLIC RIGHT OF WAY. CONTRACTOR SHALL PAY FOR PERMITS.
26. NOTIFY ENGINEER WHEN UTILITY LINES NOT IDENTIFIED IN THE PLANS ARE ENCOUNTERED IN THE FIELD AS THIS MAY REQUIRE MODIFICATIONS TO DESIGN.
27. ALL WORK TO BE DONE INSIDE OR ADJACENT TO A MNR FACILITY STRUCTURE SHALL BE COORDINATED WITH THE RESPECTIVE STRUCTURE'S MANAGEMENT.
28. ANY OUTSIDE WORK THAT WILL NECESSITATE POWER INTERRUPTION TO TRACKS MUST BE COORDINATED WITH MNR A MINIMUM OF 1 MONTH BEFORE SAID INTERRUPTION IS TO TAKE PLACE.
29. LOCATIONS, SIZES, AND EXTENT OF UTILITIES AND SUBSURFACE STRUCTURES WERE OBTAINED FROM RECORD DRAWINGS. COMPLETE ACCURACY OF INFORMATION SHOWN IS NOT GUARANTEED. CONTRACTOR TO VERIFY EXISTING CONDITION IN FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY UNFORESEEN, UTILITY CONFLICTS WILL BE REROUTED AS DIRECTED BY THE ENGINEER AND APPROVED BY MNR AT NO ADDITIONAL COST TO THE OWNER.
30. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE IF ANY DISCOVERED UNKNOWN UTILITIES ARE IN SERVICE. CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO PROTECT ACTIVE UTILITIES FOR THE DURATION OF CONSTRUCTION, AND WILL REPAIR OR REPLACE ANY DAMAGED UTILITY PER THE DIRECTION OF MNR AT NO ADDITIONAL COST TO THE OWNER.
31. ANY DISCOVERED UNKNOWN UTILITY DEEMED INACTIVE WILL BE PROPERLY ABANDONED AS DIRECTED BY MNR AT NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES (CONTINUED):

32. THE CONTRACTOR SHALL USE EXTREME CARE TO PROTECT EXISTING TREES AND THEIR ROOTS EXCEPT AS NOTED, ELEVATIONS AROUND EXISTING TREES SHALL REMAIN THE SAME. MODIFY TRENCHES OR CHANNELS TO AVOID REMAINING TREES AND THEIR ROOTS. ONLY HAND EXCAVATE AS NECESSARY WITHIN THE DRIP LINES OF TREES AS DIRECTED BY THE MNR ENGINEER.
33. NO ROOTS SHALL BE CUT WITHOUT THE WRITTEN AUTHORIZATION OF THE DIRECTOR OF LANDSCAPE CONSTRUCTION.
34. CONTRACTOR SHALL ADHERE TO APPROVED NYSDEC SANITARY SITE CONNECTION DESIGN AND ASSOCIATED REQUIREMENTS.

PARKING NOTES:

1. NOTIFY MNR 2 WEEKS IN ADVANCE OF DECOMMISSIONING ANY PARKING SPACES. DO NOT PROCEED WITH DECOMMISSIONING WITHOUT APPROVAL OF MNR.
2. ENSURE SAFE ACCESS TO PARKING SPACES THROUGHOUT THE PROJECT.

PRIVATE UTILITY NOTES:

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S CONSTRUCTION STANDARDS AND SPECIFICATIONS AND TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANY'S REPRESENTATIVE.
2. ALL DUCTS, PIPES, AND UTILITY STRUCTURES SHALL BE LAID ON UNDISTURBED SOIL OR COMPACTED FILL.

ELECTRIC NOTES:

1. IRON AND STEEL PIPE CONDUITS SHALL BE MAINTAINED AND SUPPORTED IN PLACE DURING CONSTRUCTION. ELECTRICAL CONDUITS, OTHER THAN IRON AND STEEL, SHALL BE BROKEN AWAY AND REMOVED. THE CABLES SHALL BE SUPPORTED IN TEMPORARY, FIREPROOF, WOODEN BOXES PARTITIONED TO PROVIDE SEPARATION OF CABLES SIMILAR TO EXISTING SEPARATION, IT MAY BE NECESSARY TO PLACE CABLES IN SEPARATE BOXES. IN ADDITION, THE CABLE SHALL BE WRAPPED IN FIREPROOF TAPE AND EMPTY TROUGHS SHALL BE PROVIDED TO PULL NEW CABLE IN CASE OF BURN-OUT. IF THE IRON OR STEEL CONDUITS ENCOUNTERED IN THE EXCAVATION CANNOT BE SUPPORTED (E.G. CONDUIT IS TOO DETERIORATED), CONTRACTOR SHALL REPLACE THE CONDUIT AND CABLE BETWEEN ADJOINING STRUCTURES.
2. RESTORATION OF CONDUITS SHALL INCLUDE REPLACING ALL ELECTRICAL DUCTS OTHER THAN IRON OR STEEL THAT WERE BROKEN OUT AND TEMPORARILY SUPPORTED WITHIN THE LIMITS OF THE EXCAVATION. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL AGENCY CONSTRUCTION STANDARDS AND SPECIFICATIONS.
3. ALL NEW CONDUITS SHALL BE FROM STRUCTURE TO STRUCTURE, NO SPLIT DUCTS SHALL BE USED.
4. THE NOMINAL MINIMUM COVER FOR ELECTRIC CONDUITS AND DUCT BANKS SHALL BE 30". WHERE COVER OVER CONDUITS IS LESS THAN 20", THE CONDUITS SHALL BE PROTECTED BY 3/8" STEEL PLATES, PLACED AT A MINIMUM OF 4" ABOVE THE DUCT, WITH 2" OVERLAP OF PLATE SECTIONS AND PROJECTING 3" BEYOND THE WIDTH OF THE DUCT ON EACH SIDE.
5. PRIMARY AND SECONDARY CABLES MUST BE RACKED SEPARATELY IN TEMPORARY MANHOLES. PRIMARY AND SECONDARY CABLES IN CONDUITS, WHICH HAVE BEEN BROKEN OUT, MUST BE MAINTAINED IN SEPARATE FIREPROOF WOODEN TROUGHS.
6. WHERE EXISTING ELECTRICAL BOXES OR MANHOLES ARE TO BE REPLACED, CONTRACTOR SHALL BREAK OUT AND REMOVE THE EXISTING BOX/MANHOLE AND BREAK OUT THE CONDUITS ENTERING THE BOX WHILE SUPPORTING AND MAINTAINING LIVE CABLES, THE NEW BOX/MANHOLE SHALL BE BUILT AROUND THE EXISTING LIVE CABLES.
7. IF THE EXCAVATION UNCOVERS UNKNOWN FACILITIES, WHICH ARE FOUND TO BE IN INTERFERENCE WITH PROPOSED MNR WORK OR TEMPORARY SUPPORTS, ANY RELOCATION WORK TO LOWER, RAISE, RELOCATE OR REMOVE THE INTERFERENCE, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REQUIRED WORK WILL BE AT NO COST TO THE OWNER.
8. ANY MANHOLES, BOXES, CONDUIT OR STEEL PIPE DAMAGED OR BROKEN OUT BY CONTRACTOR, WHICH ARE NOT INDICATED AS PART OF THE SCOPE ON THE CONTRACT DRAWINGS, WILL BE REPLACED OR REPAIRED AND NEW CABLE INSTALLED AT NO COST TO THE OWNER.
9. ALL STREET LIGHTS AFFECTED BY THE EXCAVATION OR DECKING SHALL BE REMOVED AND REPLACED BY TEMPORARY PYLONS IN ACCORDANCE WITH THE APPROVED STREET LIGHTING PLAN AND IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE GOVERNING LOCAL AGENCY.
10. PRIOR TO THE START OF THE PROJECT, A JOINT MEETING SHALL BE HELD IN THE FIELD WITH REPRESENTATIVES FROM MNR AND THE CHOSEN CONTRACTOR TO VERIFY INFORMATION SHOWN ON THE DESIGN PLANS. A JOINT INSPECTION OF ALL MANHOLES, SERVICE BOXES, AND TRANSFORMER VAULTS, WITHIN THE CONTRACT AREA WILL BE REQUIRED TO DETERMINE THE EXISTING CONDITION OF THE STRUCTURE PRIOR TO CONSTRUCTION. ANY EXISTING VAULT OR STRUCTURE DAMAGED DURING THE PERFORMANCE OF WORK SHALL BE RESTORED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

SEWER/DRAINAGE NOTES:

1. MAINTAIN THE WORK SITE AND TRENCHES FREE OF DRAINAGE WATER IN A MANNER APPROVED BY THE ENGINEER.
2. SUBMIT FOR THE ENGINEER'S APPROVAL DETAILED SHOP AND WORKING DRAWINGS FOR SEWER WORK.
3. NOTIFY THE ENGINEER OF ANY DAMAGE OR DETERIORATION TO FACILITIES WHICH ARE NOT SCHEDULED TO BE REPAIRED OR REPLACED UNDER THIS CONTRACT.
4. ALL EXISTING SEWERS AND APPURTENANCES TO BE RETAINED SHALL BE MAINTAINED AND PROTECTED. IF THEY ARE DISTURBED. THEY SHALL BE REPAIRED/REBUILT AT NO ADDITIONAL COST.
5. ALL NEW SEWER CASTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE NYS DEC.
6. IF REQUIRED, SUBMIT FOR THE ENGINEER'S APPROVAL DESIGN CALCULATIONS FOR THE EXCAVATION SUPPORT SYSTEM, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN NEW YORK STATE.
7. THE CONNECTION BETWEEN CONCRETE MANHOLE STRUCTURES AND PIPES SHALL CONFORM TO ASTM C-923 STANDARD SPECIFICATION FOR RESILIENT CONNECTOR BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPES
8. ALL PROPOSED DRAINAGE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE NYS DEC.
9. ALL EXISTING SEWER MANHOLES TO BE RETAINED WITHIN THE CONTRACT LIMITS SHOULD BE ADJUSTED AS NECESSARY, SO THAT THEY WILL BE FLUSH WITH THE FINISHED GRADES AFTER COMPLETION OF THE WORK. ANY OF THESE MANHOLES WHICH HAVE DAMAGED, WORN OR NON-STANDARD FRAMES AND COVERS SHOULD BE PROVIDED WITH NEW CASTINGS IN ACCORDANCE WITH THE LATEST STANDARDS OF NYS DEC INCLUDING ANY NECESSARY MODIFICATIONS OF THE MANHOLE MASONRY. ANY DAMAGE TO THE MANHOLES CAUSED BY THIS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AND AT NO COST TO THE MNR..

SEWER/DRAINAGE NOTES (CONTINUED):

10. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING SEWERS, HOUSE SEWERS, AND DRAINAGE STRUCTURES DURING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THEIR FORMER CONDITION AT NO COST MNR.
11. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
12. THE COST OF RAISING OR LOWERING CITY-OWNED MANHOLES, BASINS AND INLET HEADS TO PROPOSED GRADES WILL BE DEEMED INCLUDED IN THE PRICES BID FOR ALL THE SCHEDULED ITEMS WHEN THE VERTICAL UPWARD MOVEMENT OF ALL HEADS IS TWENTY-FOUR (24) INCHES OR LESS, WHEN THE VERTICAL DOWNWARD MOVEMENT OF MANHOLE HEADS IS SIX (6) INCHES OR LESS AND WHEN THE VERTICAL DOWNWARD MOVEMENT OF BASIN OR INLET HEADS IS THREE (3) INCHES OR LESS, UNLESS OTHERWISE PROVIDED OR DIRECTED, AND WHERE THE ADJUSTMENT IS WITHIN THE BRICK WORK LIMIT. WHEN THE EXISTING STRUCTURE CONSISTS OF A BRICK CHIMNEY OR A CONCRETE ROOF SLAB OR BRICK ON CONCRETE WALLS, THE MAXIMUM ALLOWABLE HEIGHT OF BRICK AFTER ADJUSTMENT SHALL BE TWENTY-FOUR (24) ALL OTHER ADJUSTMENTS WILL BE PAID FOR UNDER THE APPROPRIATE MANHOLE, BASIN OR INLET MODIFICATION ITEMS.
13. ALL EXISTING INLETS, BASINS AND CONNECTIONS WITHIN THE LIMITS OF THIS CONTRACT AND CONTIGUOUS THERETO ARE TO BE CLEANED, FLUSHED AND OTHERWISE MADE OPERABLE TO THE SATISFACTION OF THE ENGINEER. WHERE THE EXISTING BASIN CONNECTIONS ARE FOUND TO BE DAMAGED OR IN DETERIORATING CONDITION, THEY SHOULD BE REPLACED IN KIND IN ACCORDANCE WITH THE LATEST NYS DEC STANDARDS. ALL DAMAGED AND NON-STANDARD CASTINGS SHOULD BE REPLACED WITH NEW STANDARD CASTINGS. ALL EXISTING NON-STANDARD BASINS AT LOCATIONS WHERE BASINS ARE REQUIRED, SHALL BE REPLACED WITH NEW STANDARD BASINS. THE COST IS TO BE INCLUDED IN THE RESPECTIVE ITEMS.
14. CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO SANITARY SEWERS.
15. ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH JOINTS LAID ON 6" OF BROKEN STONE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE UNIFORMLY GRADED FROM 1/4" TO 3/4" IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLETTING PIPE.
16. CATCH BASINS SHALL NOT BE LOCATED WITHIN PEDESTRIAN CROSSWALK LIMITS. CATCH BASINS NEAR BUS STOP PADS SHALL BE LOCATED EITHER ENTIRELY WITHIN OR OUTSIDE OF BUS STOP PADS.
17. SLOPE ON ALL NEW CATCH BASIN CONNECTIONS SHALL BE A MINIMUM OF 1/2% AND A MAXIMUM OF 4%, PROVIDED THAT THE TOTAL DROP BETWEEN THE BASIN AND THE BASIN/MANHOLE IS AT LEAST 6 INCHES.
18. CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID FILLING THE CATCH BASINS WITH DEBRIS WITHIN THE CONTRACT LIMITS DURING THE CONTRACT OPERATIONS. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS OR IN THE EVENT THE CONTRACTOR'S OPERATIONS DAMAGE OR BLOCK THE DRAINAGE SYSTEM, THE CONTRACTOR SHALL AT HIS/HER OWN EXPENSE IMMEDIATELY REPAIR OR RESTORE THE DRAINAGE SYSTEM AS DIRECTED BY THE ENGINEER AT NO EXTRA COST TO THE OWNER.
19. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS (PIPES, PUMPS, ETC.) TO DRAIN ANY STORM WATER WHICH MAY DEVELOP WITHIN THE PROJECT LIMITS FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL SUBMIT A DRAINAGE SCHEME WHICH MUST BE APPROVED BY THE ENGINEER, PRIOR TO THE START OF EACH CONSTRUCTION STAGE. COST OF THIS WORK WILL BE DEEMED TO HAVE BEEN INCLUDED IN THE PRICE BID FOR ALL SCHEDULED ITEMS.
20. ALL EXISTING SEWERS AND SEWER HOUSE CONNECTIONS SHOULD BE CONTINUOUSLY MAINTAINED DURING CONSTRUCTION. IF ANY SEWER OR SEWER HOUSE CONNECTION IS TO BE DISCONNECTED FOR CONSTRUCTION PURPOSES, FLOW SHALL BE MAINTAINED BY FLUMING OR OTHER SUITABLE MEANS AS DIRECTED BY THE ENGINEER AND IN SUCH A MANNER THAT NO BACK-UPS OCCUR. EXISTING SEWERS, HOUSE CONNECTIONS OR OTHER SEWER APPURTENANCES WHICH ARE TO REMAIN, AND WHICH MIGHT BE DISTURBED FOR CONSTRUCTION PURPOSES, SHALL BE RESTORED TO THEIR PRESENT CONDITION AFTER COMPLETION OF THE WORK, AND DAMAGE DONE AS A RESULT OF THE WORK SHALL BE REPAIRED AT NO EXTRA COST TO THE OWNER.
21. ALL EXISTING SEWERS WHICH ARE WITHIN THE INFLUENCE LIMITS AND/OR ARE IN CLOSE PROXIMITY OF THE PROPOSED SEWERS/DRAINS MUST BE INSPECTED (TELEVISED IF THE EXISTING SEWERS ARE 36" DIA. OR SMALLER AND A WALK THROUGH PHOTO INSPECTION FOR ALL LARGER SEWERS) BEFORE AND AFTER THE PROPOSED SEWER/DRAIN INSTALLATION WORK TO DETERMINE DAMAGE, IF ANY, TO THE EXISTING SEWERS. ANY DAMAGE TO THE EXISTING SEWERS MUST BE REPAIRED/REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
22. PRIVATE UTILITIES (ELECTRICAL LINE, GAS MAIN, TELEPHONE LINE, AND CABLE) IMPACTED BY PRIVATE SEWER AND WATER MAIN CONSTRUCTION SHALL BE RELOCATED UNDER THE DIRECTION OF PRIVATE UTILITIES COMPANIES.
23. FOR PIPES 12" OR LESS IN DIAMETER, DRAINAGE LINES AND SEWER LINES DESIGNATED TO BE ABANDONED OR PLUGGED UNDER THIS CONTRACT SHALL BE PLUGGED AT BOTH ENDS WITH CONCRETE 12" INCHES INTO THE PIPE. FOR PIPES GREATER THAN 12" IN DIAMETER, THEY SHALL BE COMPLETELY FILLED HYDRAULICALLY WITH AN EXCAVATABLE FLOWABLE FILL PER NYS DEC REQUIREMENTS.
24. WHERE INLETS, BASINS, MANHOLES AND OTHER APPURTENANT STRUCTURES ARE TO BE ABANDONED ON EXISTING SEWERS, DRAINS, ETC., THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE, SHALL BULKHEAD ALL PIPE CONNECTION OPENINGS TO EXISTING STRUCTURES, SHALL REMOVE ALL CASTINGS OFF EXISTING STRUCTURES, SHALL BREAK DOWN EXISTING STRUCTURES TO A DEPTH FOUR (4) FEET BELOW FINAL GRADE, SHALL BREAK UP THE EXISTING STRUCTURES' BOTTOM SLAB IN SUCH A MANNER AS TO PREVENT WATER FROM BEING TRAPPED, AND SHALL FILL IN AND COMPACT THE EXISTING STRUCTURES' ENTIRE OPENINGS IN ACCORDANCE WITH NYS DEC REQUIREMENTS AND AS DIRECTED BY THE ENGINEER.
25. PRIOR TO ANY SEWER LINING, CONTRACTOR SHALL SUBMIT FOR REVIEW A SEWER VIDEO INSPECTION REPORT TO CONFIRM WHICH SEWER SITE CONNECTIONS SHALL BE RESTORED SUBSEQUENT TO LINING.
26. GATE VALVE AND VALVE BOX ON SANITARY DRAINS SHALL CONFORM TO NYS DEC STANDARD. VALVE BOX COVER SHALL BE STAMPED WITH "STORM".
27. SANITARY/COMBINED DRAINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO ANY NYS DEC SEWER OUTFALL PIPE OR MNR OUTFALL PIPE.
28. A SITE CONNECTION PROPOSAL AND INDUSTRIAL WASTE DISCHARGE PERMIT IS CURRENTLY UNDER REVIEW BY NYS DEC. THE PROPOSED DRAINAGE INFORMATION IS SHOWN FOR BIDDING PURPOSES AND IS SUBJECT TO CHANGE PENDING THESE PERMIT APPROVALS FROM NYS DEC.

100% DESIGN SUBMISSION

Agodaleto 2/19/2020 5:15:17 PM

DESIGNED	A. BEZATI
DRAWN	D. BRUYNING
CHECKED	L. MAGUIRE
APPROVED	J. SPICER

STATE OF NEW YORK · ANDREW W. SCHUELER · 076634 · PROFESSIONAL ENGINEER

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

REVISIONS

AECOM Naik GROUP

MTA Metro-North Railroad
347 Madison Avenue
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GENERAL NOTES

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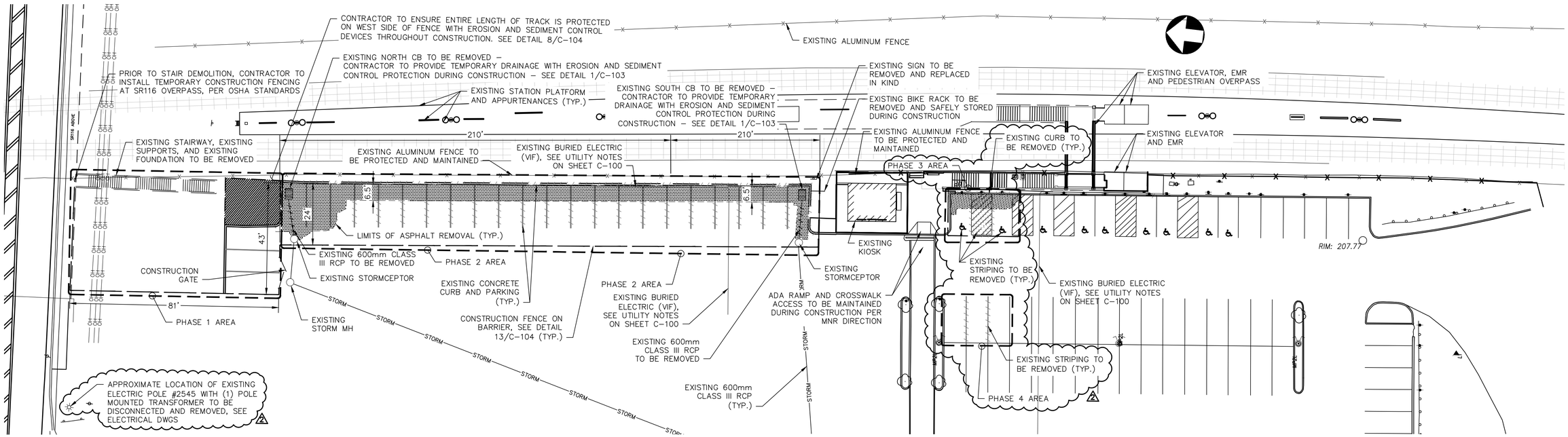
DRAWING NO.	C-100
SHEET	7 OF 76

W:\219008 - MNR-AECOM - 3 MNR Station Improvements\5 Civil\CADD\Sheets\Purdy\219008 PURDYS C100 - GENERAL NOTES.dwg



DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN

PHASE 1

1. CONTRACTOR MOBILIZES.
2. COORDINATE THE START OF WORK WITH METRO-NORTH RAILROAD AND THE PURDY'S STATION MANAGEMENT TEAM.
3. POST CONSTRUCTION AND SAFETY SIGNS.
4. SURVEY THE PHASE 1 AREA TO CONFIRM EXISTING DIMENSIONS.
5. PERFORM SITE CONDITION INSPECTIONS IN THE PHASE 1 AREA PER CONTRACT SPECIFICATIONS. CONTRACTOR MUST MOBILIZE WITHIN PHASE 1 AREA ONLY.
6. INSTALL SEDIMENT AND EROSION CONTROL DEVICES.
7. INSTALL ALL CONSTRUCTION FENCING.
8. DEMO EXISTING STAIR, SIDEWALK AND CURB.
9. INSTALL ELEVATOR AND RELATED MECHANICAL APPURTENANCES, AND STRUCTURAL BRIDGE SUPPORTS (SEE STRUCT AND ARCH DWGS).
10. EXCAVATE FOR AND INSTALL ELECTRIC/COMMUNICATIONS DUCT BANK (SEE DWG C-102).
11. BACKFILL DUCT BANK TRENCH.
12. INSTALL LIGHT POLES AND ELECTRIC (SEE ELEC DWG).
13. INSTALL NEW SIDEWALK AND CURBING (SEE DWG C-102).
14. REMOVE SEDIMENT AND EROSION CONTROL DEVICES, AND RESTORE DISTURBED SURFACES TO PERMANENT CONDITION.

PHASE 2

1. RELOCATE/UPDATE CONSTRUCTION AND SAFETY SIGNS AS REQUIRED.
2. INSTALL AND MAINTAIN SEDIMENT AND EROSION CONTROL DEVICES.
3. INSTALL/RELOCATE CONSTRUCTION FENCING.
4. SURVEY THE PHASE 2 AREA TO CONFIRM EXISTING DIMENSIONS.
5. PERFORM PHASE 2 AREA SITE CONDITION INSPECTIONS PER CONTRACT SPECIFICATIONS. CONTRACTOR MUST MOBILIZE WITHIN PHASE 2 AREA ONLY.
6. REMOVE EXISTING PARKING SIGNAGE AND STORE SAFELY.
7. REMOVE AND SAFELY STORE EXISTING BIKE RACK ADJACENT TO THE KIOSK. IMMEDIATELY AFTER REMOVAL, RESTORE GROUND SURFACE TO EXISTING CONDITIONS.
8. REMOVE ASPHALT, CONCRETE CURB AND ERADICATE STRIPING.
9. EXCAVATE AND REMOVE NORTH CATCH BASIN AND EXISTING RCP.
10. INSTALL NEW NORTH CATCH BASIN (SEE DWG C-102).
11. TRENCH FOR AND INSTALL NEW RCP FROM EXISTING STORMCEPTOR TO NEW NORTH CATCH BASIN.
12. BACKFILL NORTH CATCH BASIN AND PIPE TRENCH.
13. EXCAVATE AND REMOVE SOUTH CATCH BASIN AND EXISTING RCP.
14. INSTALL NEW SOUTH CATCH BASIN (SEE DWG C-102).
15. TRENCH FOR AND INSTALL NEW RCP FROM EXISTING STORMCEPTOR TO NEW SOUTH CATCH BASIN.
16. BACKFILL SOUTH CATCH BASIN AND PIPE TRENCH.
17. INSTALL LIGHT POLES AND ELECTRIC (SEE ELEC DWG).
18. INSTALL NEW SIDEWALK AND CURB, RESTORE ASPHALT SURFACES AND INSTALL NEW PARKING STRIPING (SEE DWG C-102).
19. REMOVE SEDIMENT AND EROSION CONTROL DEVICES, RESTORE DISTURBED SURFACES TO PERMANENT CONDITION, AND REINSTALL EXISTING SIGNAGE IN KIND.

PHASE 3

1. CONTRACTOR TO ENSURE PEDESTRIANS HAVE SAFE ACCESS TO THE STATION ENTRANCE AT ALL TIMES – CONTRACTOR SHALL USE OFF-PEAK HOURS AS DETERMINED BY MNR TO MINIMIZE DISRUPTION TO RAILROAD PASSENGERS.
2. RELOCATE/UPDATE CONSTRUCTION AND SAFETY SIGNS AS REQUIRED.
3. RE-INSTALL BIKE RACK REMOVED DURING PHASE 2 PER MNR DIRECTION.
4. SURVEY THE PHASE 3 AREA TO CONFIRM EXISTING DIMENSIONS.
5. PERFORM SITE CONDITION INSPECTIONS IN THE PHASE 3 AREA PER CONTRACT SPECIFICATIONS. CONTRACTOR MUST MOBILIZE WITHIN PHASE 3 AREA ONLY.
6. INSTALL SEDIMENT AND EROSION CONTROL DEVICES.
7. INSTALL ALL CONSTRUCTION FENCING.
8. REMOVE AND SAFELY STORE PARKING SIGNS (3 TOTAL).
9. DEMOLISH EXISTING CONCRETE AND ASPHALT AND ERADICATE STRIPING.
10. INSTALL NEW SIDEWALK AND CURB, RESTORE ASPHALT SURFACES AND INSTALL NEW PARKING STRIPING (SEE DWG C-102).
11. REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND RESTORE REMAINING DISTURBED SURFACES (INCLUDING EXISTING STRIPING) TO PERMANENT CONDITION.

PHASE 4

1. CONTRACTOR TO ENSURE PEDESTRIANS HAVE SAFE ACCESS TO THE STATION ENTRANCE AT ALL TIMES – CONTRACTOR SHALL USE OFF-PEAK HOURS AS DETERMINED BY MNR TO MINIMIZE DISRUPTION TO RAILROAD PASSENGERS.
2. RELOCATE/UPDATE CONSTRUCTION AND SAFETY SIGNS AS REQUIRED.
3. SURVEY THE PHASE 4 AREA TO CONFIRM EXISTING DIMENSIONS.
4. PERFORM SITE CONDITION INSPECTIONS IN THE PHASE 4 AREA PER CONTRACT SPECIFICATIONS. CONTRACTOR MUST MOBILIZE WITHIN PHASE 4 AREA ONLY.
5. INSTALL ALL CONSTRUCTION FENCING, IF NECESSARY.
6. REMOVE EXISTING STRIPING.
7. INSTALL NEW PARKING STRIPING AND SIGNAGE REMOVED IN PHASE 3 (SEE DWG C-102).
8. RESTORE REMAINING DISTURBED SURFACES (INCLUDING EXISTING STRIPING) TO PERMANENT CONDITION.

NOTE:

1. ALL EXISTING UTILITIES SHOWN ARE TAKEN FROM RECORD DRAWINGS PROVIDED BY METRO-NORTH RAILROAD, DATED 4/21/1999. ANY DISCREPANCIES BETWEEN DESIGN DRAWINGS AND FIELD OBSERVATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

LEGEND

- FULL ASPHALT PAVEMENT AND STRIPING REMOVAL
- PIPE REMOVAL (STORM)
- STRIPING REMOVAL
- CONCRETE REMOVAL
- PHASE DELINEATION
- CURB REMOVAL

20' 10' 0 20' 40'
1" = 20'-0"

100% DESIGN SUBMISSION

								CONFORMED			
2	02/19/2020	DUCT BANK AND PARKING	AG	JCS	LM						
1	10/14/2019	BIKE_RACK	JCS	PD	LM						
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD
REVISIONS						REVISIONS					

DESIGNED A. BEZATI
DRAWN D. BRUYNING
CHECKED L. MAGUIRE
APPROVED J. SPICER

ANDREW W. SCHUELER — STATE OF NEW YORK — 076634 — PROFESSIONAL ENGINEER

AECOM Naik GROUP

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
DEMOLITION AND EROSION AND SEDIMENT CONTROL PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11/20/2019
DRAWING NO. C-101
SHEET 8 OF 76

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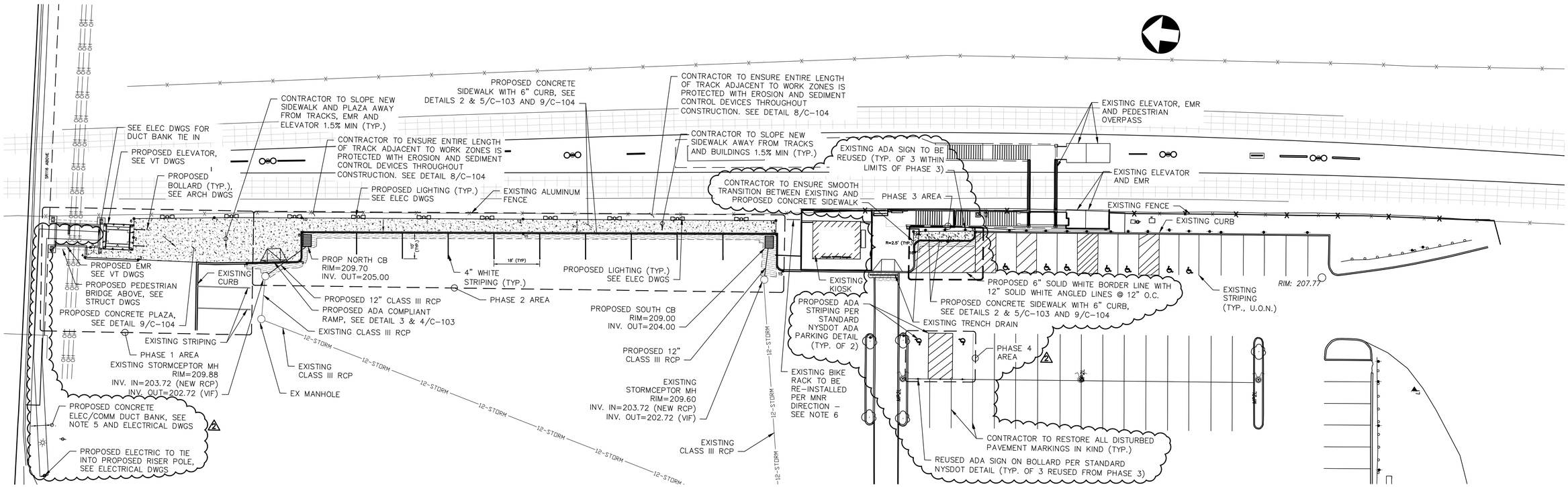

PROPOSED CIVIL SITE PLAN

POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	209.63	909152.26	723056.59	EXISTING TOC
2	210.30	909197.76	723061.50	EOC
3	210.20	909194.84	723053.07	EOC
4	210.60	909215.71	723051.45	EOC
5	210.70	909214.04	723055.60	EOC
6	210.30	909198.47	723068.89	EOC
7	210.30	909167.17	723073.07	EOC
8	210.20	909132.20	723071.32	TOC
9	210.00	909131.46	723060.22	TOC
10	210.30	909133.03	723077.15	EOC
11	210.20	909045.85	723081.52	TOC
12	210.30	909046.61	723087.19	EOC
13	209.50	908946.96	723093.19	TOC
14	209.60	908947.86	723098.67	EOC
15	209.85	908942.71	723079.27	EXISTING TOC
16	209.50	908892.49	723093.29	EXISTING TOC
17	209.50	908880.08	723098.71	TOC
18	209.25	908869.32	723103.34	EXISTING TOC
19	209.75	908893.18	723100.96	EXISTING EOC

LEGEND

- PROPOSED CONCRETE SEE DETAIL 9/C–104
- HMAC PAVEMENT SEE DETAIL 10/C–104
- PROPOSED CONCRETE CURB SEE DETAIL 2/C–103
- STONE PAVERS
- 1 SPOT ELEVATION

ABBREVIATIONS:

EOC EDGE OE CONCRETE
TOC TOP OF CURB

20' 10' 0 20' 40'
1" = 20'-0"

NOTES:

1. PLANIMETRIC INFORMATION DEPICTED OBTAINED FROM SURVEY PROVIDED BY ONPOINTE 3D TECHNOLOGIES, LLC, DATED 3/6/2019, REVISED 5/2/19.
2. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. HORIZONTAL DATUM IS REFERENCED TO THE STATE PLANE COORDIANTE SYSTEM NEW YORK EAST.
4. ALL EXISTING UTILITIES SHOWN ARE TAKEN FROM RECORD DRAWINGS PROVIDED BY METRO–NORTH RAILROAD, DATED 4/21/1999. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING LOCATIONS, DIMENSIONS, ELEVATIONS, ETC. PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN DESIGN DRAWINGS AND FIELD OBSERVATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
5. CONTRACTOR TO PROVIDE CONDUIT ROUTING DIAGRAM FOR APPROVAL BY METRO–NORTH RAILROAD PRIOR TO CONSTRUCTION.
6. BIKE RACK LOCATION SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY – FINAL LOCATION TO BE COORDINATED WITH METRO–NORTH RAIL.

100% DESIGN SUBMISSION

NO.	DATE		DRWN	CHKD	APPVD
2	02/19/2020	DUCT BANK AND PARKING	AG	JCS	LM
1	10/14/2019	BIKE RACK	JCS	PD	LM

REVISIONS

CONFORMED

REVISIONS

DESIGNED A. BEZATI
DRAWN D. BRUYNING
CHECKED L. MAGUIRE
APPROVED J. SPICER

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MTA Metro–North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PROPOSED CIVIL SITE PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11/20/2019
DRAWING NO. C-102
SHEET 9 OF 76

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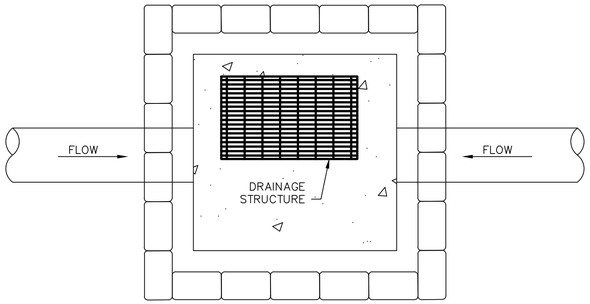
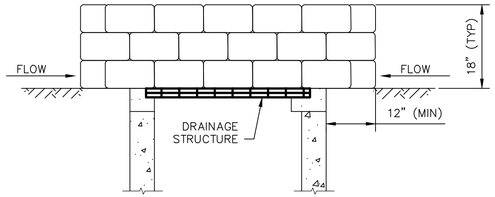


PLAN



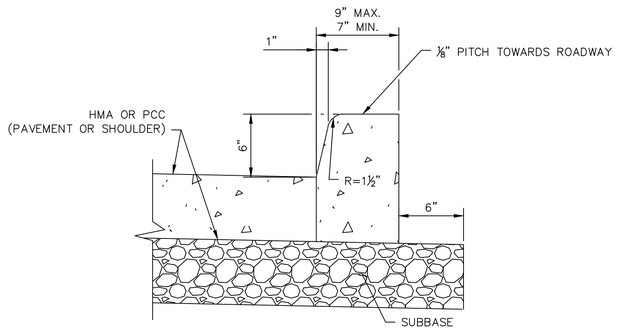
SECTION

DETAIL 1: GRAVEL BAG INLET PROTECTION

N.T.S.

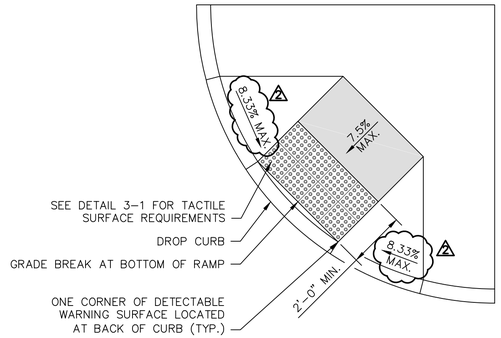
GRAVEL BAG INLET PROTECTION NOTES:

1. GRAVEL BAGS ARE FILLED WITH CLEAN STONE RATHER THAN SAND TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM IF BAGS ARE DAMAGED DURING USE.
2. GRAVEL BAGS SHALL BE INDIVIDUALLY TIED, DOUBLE BAGGED AND DIVERSELY INSERTED. GRAVEL BAGS SHALL LAP THE JOINTS BETWEEN THE BAGS IN THE LAYER BELOW.
3. MEASURES SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF ½" OR MORE WITHIN A TWENTY–FOUR (24) HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. MEASURES SHALL BE CLEANED AND REPAIRED AS REQUIRED.
4. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE–HALF OF THE MEASURE HEIGHT, SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
5. MAXIMUM DRAINAGE AREA FOR DRAINAGE STRUCTURE INLET PROTECTION IS ONE ACRE.



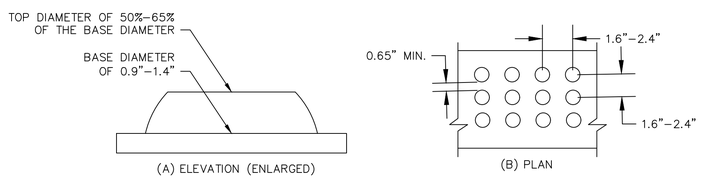
DETAIL 2: VERTICAL FACED CURB WITHOUT CURB ANCHOR

N.T.S.



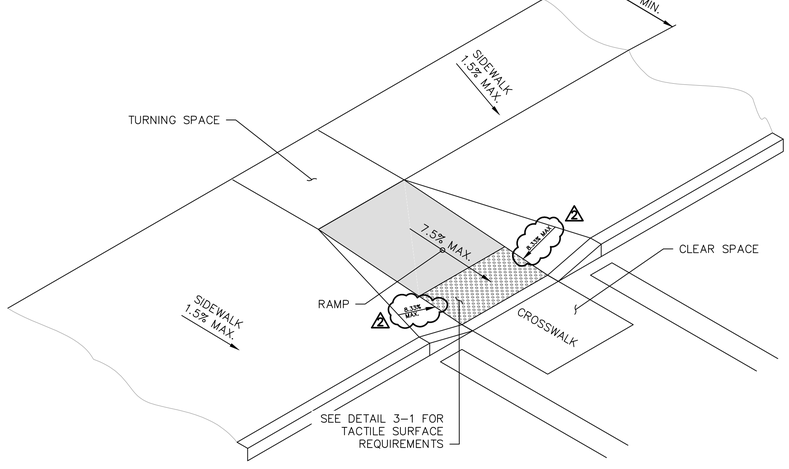
DETAIL 3: ADA CURB CUT DETAIL

N.T.S.



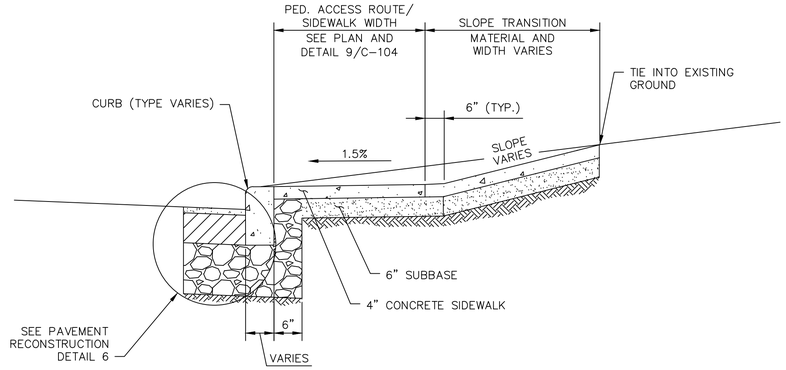
DETAIL 3–1: TACTILE SURFACE REQUIREMENT

N.T.S.



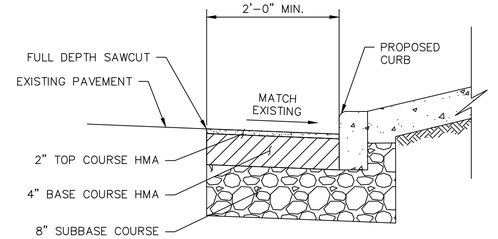
DETAIL 4: ADA CURB CUT DETAIL

N.T.S.



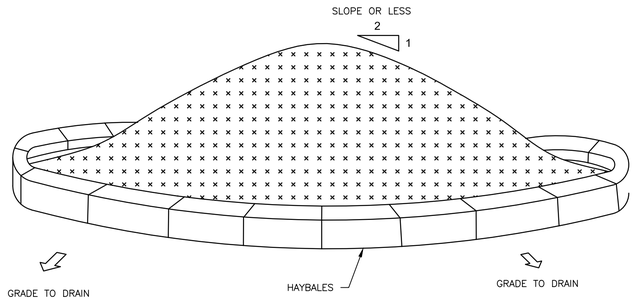
DETAIL 5: TYPICAL SIDEWALK CROSS–SECTION AT CURB

N.T.S.



DETAIL 6: PAVEMENT RECONSTRUCTION

N.T.S.



DETAIL 7: SOIL STOCKPILE

N.T.S.

STOCKPILE NOTES

1. AREA CHOSEN FOR MATERIAL SHALL BE DRY AND STABLE
2. MAXIMUM SLOPE OF MATERIAL PILE SHALL BE 2:1
3. PRIOR TO DISTURBING MATERIAL, EACH PILE SHALL BE SURROUNDED WITH HAYBALES.

100% DESIGN SUBMISSION

									CONFORMED				
2	02/19/2020	DUCT_BANK_AND_PARKING	AG	JCS	LM								
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE			DRWN	CHKD	APPVD	
		REVISIONS						REVISIONS					

DESIGNED A. BEZATI
DRAWN D. BRUYNING
CHECKED L. MAGUIRE
APPROVED J. SPICER

STATE OF NEW YORK ANDREW W. SCHUELER 076634 PROFESSIONAL ENGINEER

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347 Madison Avenue
New York, NY 10017

TITLE
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PURDY'S STATION
TYPICAL DETAILS 1

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11/20/2019
DRAWING NO. C-103
SHEET 10 OF 75

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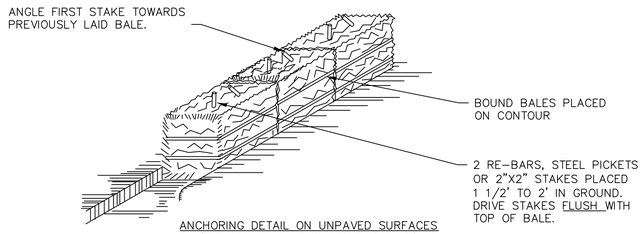


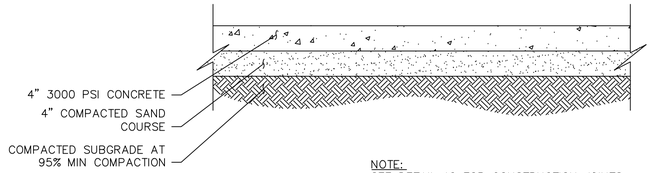
ANCHORING DETAIL ON UNPAVED SURFACES
(SEE NOTE 3 FOR PAVED SURFACES)
N.T.S.

DETAIL 8: HAYBALE DETAIL

N.T.S.

HAYBALE DETAIL NOTES:

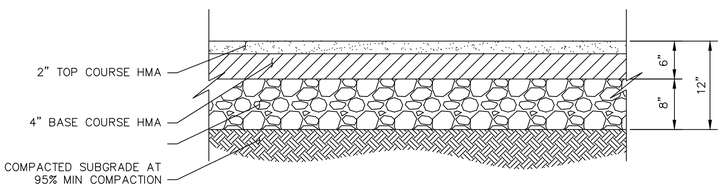
1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. IN UNPAVED AREAS, EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. IN PAVED AREAS, ABUT STRAW BALES TOGETHER AND DRIVE STAKE OR REBAR INTO ADJOINING BALE TO FORCE THE BALES TOGETHER.
4. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
5. INSPECTION SHALL BE FREQUENT AND REPAIR/REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. CONTRACTOR MAY REPLACE HAYBALES WITH ENGINEER APPROVED EQUIVALENT PRODUCT.



NOTE:
SEE DETAIL 12 FOR CONSTRUCTION JOINTS

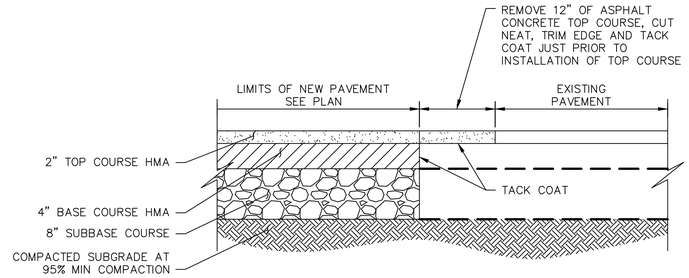
DETAIL 9: TYPICAL CONCRETE SIDEWALK SECTION

N.T.S.



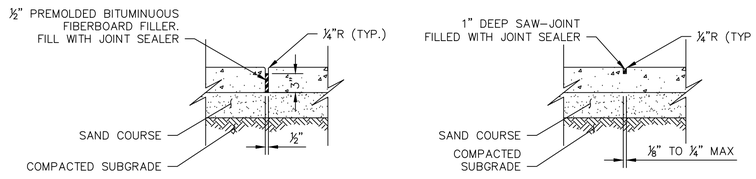
DETAIL 10: TYPICAL ASPHALT PAVEMENT SECTION

N.T.S.



DETAIL 11: TYPICAL NEW TO EXISTING PAVEMENT DETAIL

N.T.S.

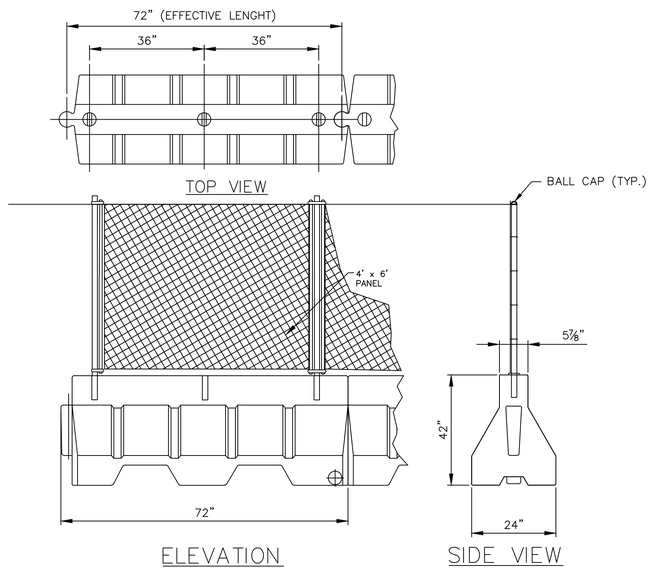


CONSTRUCTION/EXPANSION JOINT
MAX SPACING 15' O.C.

CONTRACTION JOINT
MAX SPACING 5' O.C.

DETAIL 12: CONCRETE SIDEWALK CONSTRUCTION JOINT

N.T.S.



DETAIL 13: WATER FILLED BARRIER WITH FENCE ON TOP

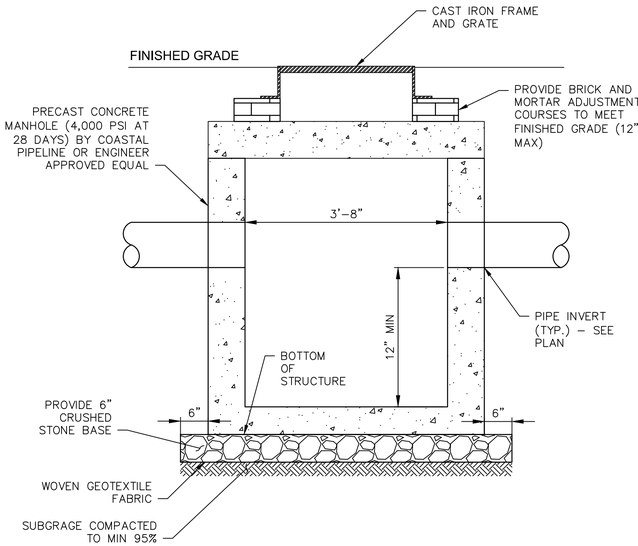
N.T.S.

SCREEN FABRIC (ATTACHED TO CHAIN LINK FENCE):

1. SCREEN FABRIC SHALL BE WOVEN FROM 3.0 OZ./SQ. YD. POLYESTER MATERIAL AND COATED AFTER WEAVING WITH A 6.0 OZ./SQ. YD. COATING OF POLY VINYL CHLORIDE, BLACK IN COLOR. TENSILE STRENGTH WHEN TESTED AS PER THE GRAB METHOD SHALL BE 230 X 220 POUNDS AND WHEN TESTED BY THE STRIP METHOD, SHALL BE 200 X 140 POUNDS.
2. SCREEN PANELS SHALL BE 'TENN-AIRE, BLACK', AS MANUFACTURED BY DEMILIA ACCESSORIES, INC., WEST CALDWELL, NJ, 07006 OR AN APPROVED EQUAL.
3. SCREEN WEATHER COATING SHALL COMPLY TO THE FOLLOWING MINIMUM TEST PERFORMANCE STANDARDS:

PROPERTY	TEST METHOD	SPECIFICATION
WATER ABSORPTION-	ASTM D-471 7 DAYS @ 160 DEG. F.	5.0% MAX. WEIGHT GAIN
WICKING-	7 DAYS @ 160 DEG. F. PROCEDURE 24 HOURS ROOM TEMPERATURE	1/8" MAX.
WEATHERING-	CARBON ARC ASTM D-750 2500 HOURS MIN.	NO APPRECIABLE COLOR CHANGE, NO CRACKING OR CRAZING.

4. FABRICATION OF SCREEN:
   1.) ALL HEMS SHALL BE FOUR-PLY REINFORCED WITH HEAVY DUTY 18 OZ. VINYL COATED NYLON. ALL HEMS AND SEAMS ARE TO BE SEWN WITH #7 WEATHER AND ULTRAVIOLET LIGHT RESISTANT DACRON THREAD.
   2.) GROMMETS SHALL BE OF BRASS SPACED AT A MAXIMUM OF 12" APART ON ALL HEMS.
   3.) DIE CUT AIR VENTS SHALL BE PLACED A MAXIMUM OF 10'-0" APART.
5. SCREEN FABRIC SHALL BE SECURELY FASTENED ALONG TOP RAIL AND BOTTOM TENSION WIRE OF CHAIN LINK FENCE AS PER THE MANUFACTURER'S DIRECTIONS.



DETAIL 14: TYPICAL CATCH BASIN DETAIL

N.T.S.

CATCH BASIN NOTES:

1. CONTRACTOR SHALL SUBMIT SHOP DRAWING PRIOR TO THE START OF WORK FOR ENGINEER APPROVAL.
2. SEE SITE PLAN FOR PROPOSED ELEVATIONS

100% DESIGN SUBMISSION

								CONFORMED				
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS | REVISIONS

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DRAWN D. BRUYNING
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TITLE: METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
TYPICAL DETAILS 2

CONTRACT NO. 1000106733
SCALE AS NOTED | DATE 11/20/2019
DRAWING NO. C-104
SHEET 11 OF 75

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ARCHITECTURAL ABBREVIATIONS

NOT ALL ABBREVIATIONS DEPICTED ON THIS LEGEND ARE USED IN THE ARCHITECTURAL DRAWINGS

ABV	ABOVE
ACCESS	ACCESSIBLE
ACST	ACOUSTIC
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
AD PNL	ADVERTISEMENT PANEL
ADA	AMERICANS WITH DISABILITIES ACT
ADB	ARRIVAL DEPARTURE BOARD
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
ALNMT	ALIGNMENT
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
ASSY	ASSEMBLY
AUTO	AUTOMATIC
AVE	AVENUE
AVG	AVERAGE
BD	BOARD
BETW	BETWEEN
BL	BASELINE, BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCHMARK
BN	BENCH
B.O.	BOTTOM OF
BOH	BACK OF HOUSE
B.P.	BASE PLATE
BRDG	BRIDGE
BRG	BEARING
B.S.	BOTH SIDES
BSMT	BASEMENT
CAB	CABINET
CAP	CAPACITY
CCA	CHROMATED COPPER ARSENATE
CER	CERAMIC
CFS	COLD-FORMED STEEL
CIC	CUSTOMER INFORMATION CABINET
CIP	CAST IN PLACE
CIS	CUSTOMER INFORMATION SCREEN
CJ	CONTROL JOINT
CL	CENTERLINE
CLO	CLOSET
CLG	CEILING
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNCL	CONCEALED
CNTR	COUNTER
CO	CLEANOUT
COMMS	COMMUNICATIONS
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONTR	CONTRACTOR
CONT	CONTINUE
CORR	CORRIDOR
CSI	CUSTOMER SERVICE INFORMATION
CSK	COUNTERSINK
CT	CERAMIC TILE
CTD	COATED
CTR	CENTER
D	DEPTH
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DTL	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DMPF	DAMPPROOFING
DOT	DEPARTMENT OF TRANSPORTATION
DP	DOWNPIPE
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
E.F.	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMR	ELEVATOR MACHINE ROOM
ENCL	ENCLOSED / ENCLOSURE
ENG	ENGINEER
ENTR	ENTRANCE
EQ	EQUAL(LY)
EQUIP	EQUIPMENT
ESCAL	ESCALATOR
EST	ESTIMATE
EXIST	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER & CABINET
FF	FINISHED FLOOR
FF EL	FINISH FLOOR ELEVATION
FHY	FIRE HYDRANT
FIN	FINISH(ED)
FIXT	FIXTURE
FLR	FLOOR
FP	FIREPROOF(ING)
FRP	FIBERGLASS-REINFORCED PLASTICS
FRT	FIRE RETARDANT TREATED
FT	FOOT
FTG	FOOTING
FURN	FURNITURE
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
GF	GROUND FLOOR
GL	GLASS / GLAZING
GWB	GYPSUM WALL BOARD
HD	HEAVY DUTY
HDWD	HARDWOOD
HM	HOLLOW METAL
HNDRL	HANDRAIL
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
IDE	INDUSTRIAL DESIGN ELEMENT
IN	INCH / INCHES
INCL	INCLUDE(D) / INCLUDING
INSUL	INSULATE / INSULATION
INT	INTERIOR
INV	INVERT
JST	JOIST
JT	JOINT
L	LENGTH
LAM	LAMINATE
LAV	LAVATORY
LG	LENGTH
LIB	LIBRARY
LIN	LINEAR
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LTG	LIGHTING
LWC	LIGHTWEIGHT CONCRETE
MACH	MACHINE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEP	MECHANICAL ELECTRICAL AND PLUMBING
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
M.H.	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLDG	MOLDING
MNR	METRO NORTH RAILROAD
M.O.	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NA	NOT AVAILABLE / APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
O.H.	OVERHANG
OPNG	OPENING
OPP	OPPOSITE (HAND)
PART	PARTIAL
PASS	PASSENGER
PAT	PATTERN
PCC	PRECAST CONCRETE
PERF	PERFORATED
PERIM	PERIMETER
PL	PLATE
P/L	PROPERTY LINE
PLAS	PLASTER
PLUMB	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PORC	PORCELAIN
PPD	PERPENDICULAR PLATFORM DISPLAY
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAINT(ED)
PVC	POLYVINYL CHLORIDE
PVG	PAVING
QTY	QUANTITY
R	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPT	RECEPTACLE
REF	REFERENCE
REQ	REQUIRED
REV	REVISION
REVOL	REVOLVING
RH	RIGHT HAND
RM	ROOM
RR	RAILROAD
S	SOUTH
SCHED	SCHEDULE
SCRN	SCREEN
SECT	SECTION
SF	SQUARE FEET
SGL	SINGLE
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFY / SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SSTL	STAINLESS STEEL
ST	STREET
STL	STEEL
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUPT	SUPERINTENDENT
SUPR.	SUPERVISOR
SUSP	SUSPENDED
SYS	SYSTEM
TA	TECHNICAL ADVISORY
TEMP.	TEMPORARY
THK	THICKNESS
THRES	THRESHOLD
THRU	THROUGH
T&B	TOP AND BOTTOM
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOM	TICKET OFFICE MACHINE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TR	TRASH RECEPTACLE
TRTD	TREATED
TVM	TICKET VENDING MACHINE
TYP.	TYPICAL
UHPC	ULTRA HIGH PERFORMANCE CONCRETE
UHPFRC	ULTRA HIGH PERFORMANCE FIBER REINFORCED CONCRETE
UNFIN	UNFINISHED
VERT	VERTICAL
VHB	VERY HIGH BOND
VIF	VERIFY IN FIELD
VOL	VOLUME
VTR	VENT TO ROOF
W	WEST
W	WIDE
W/	WITH
W/O	WITHOUT
W.C.	WATER CLOSET
WD	WOOD
WDR	WOOD DOOR
WDW	WINDOW
WF	WIDE FLANGE
WP	WHITE PLAINS
WP	WATERPROOF
WPM	WATERPROOF MEMBRANE
WWF	WELDED WIRE FABRIC

ARCHITECTURAL SYMBOLS LEGEND

- X — EXISTING DOOR TO REMAIN
- X — NEW DOOR NUMBER REFERENCE
- X — ROOM NUMBER REFERENCE
- X — WINDOW NUMBER REFERENCE
- X — REVISION REFERENCE
- X — WALL TYPE REFERENCE
- X / X — ELEVATION REFERENCE; DETAIL NUMBER; DWG ON WHICH DETAIL APPEARS
- X / X / X — MULTIPLE ELEVATIONS REFERENCE; DETAIL NUMBER; DWG ON WHICH DETAIL APPEARS
- X / X — SECTION REFERENCE; DETAIL NUMBER; DWG ON WHICH DETAIL APPEARS
- X / X — LARGE SCALE REFERENCE; DETAIL NUMBER; DWG ON WHICH DETAIL APPEARS
- X / X — DETAIL REFERENCE; DWG ON WHICH DETAIL APPEARS
- X / X — SECTION/DETAIL DRAWING TITLE REFERENCE; FIRST DWG ON WHICH IT APPEARS
- ID-XXX — INDUSTRIAL DESIGN ELEMENT TAG
- XXX-XX — FINISH TAG
- EXISTING GOOSENECK LIGHT FIXTURE
- EXISTING DOUBLE GOOSENECK LIGHT FIXTURE
- EXIT — NEW EXIT SIGNS

- X — COLUMN REFERENCE
- ℄ — CENTER LINE
- X/A-XXX / X/A-XXX — MATCH LINE
- REVISION CLOUD
- NORTH ARROW
- XXX / EL. 000.00' — SPOT ELEVATION REFERENCE
- NEW DOOR
- EXISTING DOOR
- 1/A100 — DETAIL REFERENCE; DWG ON WHICH DETAIL APPEARS
- X-XX.XXX — SIGNAGE TAG
- EXISTING WALLS TO REMAIN
- WALLS TO BE DEMOLISHED
- NEW WALLS
- AREA OUTSIDE SCOPE OF WORK

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

STATE OF NEW YORK — NICHOLAS MONTECALVO — LICENSED PROFESSIONAL ENGINEER — 080653

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE: METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION ABBREVIATIONS & SYMBOLS

CONTRACT NO. 1000106733

SCALE: AS NOTED | DATE: 11-20-2019

DRAWING NO. **A-001**

SHEET 13 OF 76

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ARCHITECTURAL GENERAL NOTES:

1. THE FOLLOWING GENERAL NOTES APPLY TO ARCHITECTURAL SCOPE OF WORK REFER TO CONTRACT DOCUMENTS OF OTHER DISCIPLINES FOR ADDITIONAL REQUIREMENTS.
2. WORK SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES AND ACCEPTED INDUSTRY STANDARDS.
3. ALL PARTS OF THE WORK INCLUDING MATERIALS, METHODS, ASSEMBLIES, ETC. MUST COMPLY WITH THE REQUIREMENTS OF THE GOVERNING REGULATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION OVER THE PROJECT, AS WELL AS THOSE GREATER REQUIREMENTS INDICATED BY THE CONTRACT DOCUMENTS, NO PART OF THE CONTRACT DOCUMENTS MAY BE CONSTRUED TO REQUIRE OR PERMIT WORK CONTRARY TO GOVERNING REGULATIONS.
4. THE ARCHITECTURAL DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS. THE WORK DESCRIBED BY THE DRAWINGS OF ANY DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED BY THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE GC/CM. IT IS THE GC/CM'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTOR'S, TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, DRAWINGS, AND SPECIFICATIONS.
5. IT IS THE GC'S RESPONSIBILITIES TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS. THE GC SHALL ENDEAVOR TO IDENTIFY AND NOTIFY MNR OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK.
6. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL TRADES, INCLUDING WORK WHICH SHOWN PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
7. EXCEPT IN DIMENSIONED LOCATIONS SHOWN ON ARCHITECTURAL DRAWINGS, OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:
   A. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEYED NOTE OR INDICATION ON THE ARCHITECTURAL DRAWINGS.
   B. OCCURING WITHIN A ROOM OR OTHER IDENTIFIED SPACE FOR WHICH ARCHITECTURAL SHEET OR SCHEDULE NOTES THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.
8. CEILING HEIGHT DIMENSIONS ARE MEASURED FROM FINISHED FLOOR, UNLESS OTHERWISE NOTED.
9. ON DRAWINGS, DIMENSIONS TAKE PRECEDENCE. DO NOT SCALE TO DETERMINE DIMENSIONS. IF DIMENSIONS ARE UNKNOWN, OR IN QUESTION, THE GC/CM IS TO CONTACT THE ARCHITECT IN THE FORM OF AN RFI.
10. ALL DIMENSIONS ARE IN FEET AND INCHES. CONTRACTOR TO VERIFY AND CONFIRM ALL CONDITIONS AND DIMENSIONS IN FIELD. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.

PROJECT LOCATION:

PURDYS METRO-NORTH STATION
85 TITICUS ROAD (NY 116)
INTERSTATE 684
PURDYS, NY 10578

AUTHORITY HAVING JURISDICTION FOR CODE ENFORCEMENT:

THE METRO-NORTH RAILROAD (METRO-NORTH OR MNR) IS A CONSTRUCTION PERMITTING AGENCY PER TITLE 19 (NYCRR), CHAPTER XXXII DIVISION OF CODE ENFORCEMENT AND ADMINISTRATION, PART 1204.16, AND THEREFORE IS RESPONSIBLE FOR THE ADMINISTRATION AND ENFORCEMENT OF THE NEW YORK UNIFORM FIRE PREVENTION AND BUILDING CODE (THE UNIFORM CODE), INCLUDING THE BCNYS, AS IT APPLIES TO METRO-NORTH PROJECTS. THE AUTHORITY HAVING JURISDICTION (AHJ) FOR CODE ENFORCEMENT IS THE METRO-NORTH CODE COMPLIANCE GROUP.

APPLICABLE CODES AND STANDARDS:

- THE EXISTING BUILDING CODE OF NEW YORK STATE (EBCNYS)
- THE UNIFORM FIRE PREVENTION AND BUILDING CODE OF NEW YORK STATE WITH 2017 UNIFORM CODE SUPPLEMENT (BCNYS)
- THE FIRE CODE OF NEW YORK STATE SUPPLEMENT (FCNYS)
- THE PLUMBING CODE PLUMBING OF NEW YORK STATE (PCNYS)
- THE MECHANICAL CODEOF NEW YORK STATE (MCNYS)
- NFPA 70, NATIONAL ELECTRICAL CODE (NEC) - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), (REFERENCED BY BCNYS CHAPTER 27)
- NFPA 72, 2013 FIRE ALARM SYSTEM - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

APPLICABLE ACCESSIBILITY CODES AND STANDARDS

- ADA/ABA ACCESSIBILITY GUIDELINES (ADAAG), 2004 EDITION, AS ADOPTED BY THE US DEPARTMENT OF TRANSPORTATION (USDOT) IN NOVEMBER 2006
- BCNYS CHAPTER 11 ACCESSIBILITY & ICC A117.1

METRO-NORTH RAILROAD CODE COMPLIANCE PROGRAM MANUAL, FEBRUARY 27, 2012

DESCRIPTION OF WORK:

- DEMOLISH EXISTING STAIRCASE, SUPPORTS, AND FOUNDATIONS.
- INSTALL A NEW HYDRAULIC ELEVATOR, INCLUDING FOUNDATION, HOISTWAY, STRUCTURAL STEEL TOWER ENCLOSED WITH GLASS PANELS, STAINLESS STEEL GLASS PANEL CAB, ELECTRIC POWER SUPPLY, ROOFING, LIGHTING, COMMUNICATIONS, FIRE ALARM SYSTEM, AND ASSOCIATED ELEVATOR MACHINE ROOM.
- INSTALL A NEW ADA COMPLIANT PEDESTRIAN BRIDGE PATHWAY (PARALLEL TO TRACK 2 - INBOUND SIDE FROM THE NEW ELEVATOR BASE TO THE STATION OVERPASS INCLUDING SHED, GLASS WINDSCREEN WALLS, LIGHTING, UTILITY RELOCATION, PARTIAL FENCE REPLACEMENT AND PARKING LOT MODIFICATIONS.

USE AND OCCUPANCY CLASSIFICATION (2018 IBC, CHAPTER 3)

NO CHANGE TO OCCUPANCY
EXISTING OCCUPANCY
- A-3 ASSEMBLY AREAS, PLATFORM, WAITING AREAS. CIRCULATION AREAS IN TRANSFORTATION STATION
- F-2 LOW-HAZARD FACTORY INDUSTRIAL - ELEVATOR MACHINE ROOM

CLASSIFICATION OF WORK (BCNYS, CHAPTER 5)

- ALTERATION LEVEL-1 ALTERATION INCLUDES REMOVAL OF EXISTING STAIRWAY, ITS SUPPORT AND FOUNDATION TO BE REPLACED WITH NEW ELEVATOR AND ELEVATED PEDESTRIAN WALKWAY. ALL NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS AND SPACES SHALL COMPLY WITH THE REQUIREMENTS OF THE BCNYS.
- LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 7 OF EBCNYS. ALTERATIONS IN PHASE I SHALL NOT CREATE CONDITIONS LESS THAN SAFE THAN EXISTING CONDITIONS AT PURDY'S STATION.

TYPE OF CONSTRUCTION (2018 IBC, CHAPTER 6, 31)

- STRUCTURAL MEMBERS SHALL BE PROTECTED - PAINTED/ COATED TO PREVENT DETERIORATION
- THE PEDESTRIAN WALKWAY SHALL COMPLY WITH PROVISIONS OF CHAPTER 31 SPECIAL CONSTRUCTION, SHALL BE OF NON-COMBUSTIBLE CONSTRUCTION

NOTE: ROOF COVERED BUT OPEN-AIR (UNENCLOSED) STRUCTURE TO BE REVIEWED BY MNR CODE COMPLIANCE

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

STATE OF NEW YORK · ALDEN B. MONTGOMERY · LICENSED PROFESSIONAL ENGINEER · 082934

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

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NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES & CODE ANALYSIS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. A-002
SHEET 14 OF 76

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SYSTEM & FINISH SCHEDULE

ITEM#	ELEMENT	LOCATION	DESCRIPTION	COLOR	SPECIFICATION SECTION
	CONCRETE				
CON-01	CONCRETE SEALER	PEDESTRIAN BRIDGE		TBD	
CON-02	SIDEWALK	STATION PLAZA, & ADA PATHWAY	SINGLE POUR, CAST-IN-PLACE CONCRETE, LAYOUT OF CONTROL AND EXPANSION JOINTS AS INDICATED, SEALANT AND BACKER ROD AT EXPANSION JOINTS	TO MATCH ADJACENT SIDEWALK	03 30 00
	DOOR				
DR-01	METAL DOOR - EXTERNAL	MACHINE ROOM	EXTERIOR GRADE HOLLOW METAL DOOR WITH GASKET, ALUMINUM SHEET ON HONEYCOMB CORE LOCK		08 11 00
	FIXTURE				
FXS-01	SNOW GUARD	PEDESTRIAN BRIDGE & ELEVATOR TOWER	APPLIED SNOW GUARD SYSTEM	MATCH ROOF FINISH	07 41 33.01
FXS-02	CUSTOMER INFORMATION SCREEN	PEDESTRIAN BRIDGE	STANDARD CUSTOMER INFORMATION SCREEN	TBD	
	GLASS				
GLS-01	GLASS WALL CLADDING SYSTEM	PEDESTRIAN BRIDGE	HEAT-STRENGTHENED LAMINATED SAFETY GLASS WITH TRANSLUCENT INTERLAYER RETROFITTED INTO EXISTING FRAME, KICK PLATE		08 80 00
GLS-1A	RAINSCREEN GLASS WALL CLADDING SYSTEM	ELEVATOR ENCLOSURE			
GLS-02	GLASS AWNING	ELEVATOR ENTRANCE-STATION LEVEL	HEAT-STRENGTHENED LAMINATED SAFETY GLASS WITH TRANSLUCENT INTERLAYER ON DURABLE-PAINT STEEL FRAME, KICK PLATE ON METAL FRAME		08 80 00
GLS-03	GLASS WINDSCREEN	ELEVATOR ENTRANCE-STATION LEVEL	LOW IRON, HEAT-STRENGTHENED LAMINATED SAFETY GLASS DOOR STAINLESS STEEL TRIMS, FACTORY APPLIED ANTI-GRAFFITI FILM		08 80 00
GLS-04	ELEVATOR CAB	ELEVATOR	FLOOR-TO-CEILING HEAT STRENGTHENED LAMINATED GLASS WITH BACK-FACE FRIT ON METAL BRACKETS TO CMU WALL	BLUE	08 44 05
GLS-05	GLASS FRONT FOR ID ELEMENTS	TOTEM	VANDAL RESISTANT ACRYLIC WITH RIBBED SIDES STATION SPECIFIC COLORED LIGHT AT THE TOP		08 80 00
GLS-06	GLASS COVER	TOTEM ALL DASHBOARDS	LOW IRON, HEAT-STRENGTHENED LAMINATED SAFETY GLASS CABINET, CERAMIC FRIT WHERE INDICATED		08 80 00
	METAL			WHITE	10 14 00
MTL-01	STATION NAME LETTERING	BRIDGE ENTRANCE	LASER CUT STAINLESS STEEL LETTERING, POWDER COATED FRONT FACE AND EDGES		08 44 05
MTL-02	STAINLESS STEEL TRIM	ELEVATOR ENTRANCE OPENING	STAINLESS STEEL TRIM FOR JAMB AND HEADERS		
MTL-03	PAINTED METAL PANEL	ELEVATOR TOWER	KYNAR COATED ALUMINUM COMPOSITE MATERIAL (ACM)		
MTL-04	STAINLESS STEEL PLATE	TOTEM SIDE PANELS	BEAD BLASTED STAINLESS PLATE W/ LASER CUT VENT PERFORATIONS	WHITE	12 93 40.10
MTL-05	BREAK FORMED METAL	TOTEM AND DASHBOARD	STEEL PANELS W/ BAKED VITREOUS ENAMEL PAINT FINISH, SCREEN PRINTED GRAPHICS	WHITE	12 93 40.10
	PAINT				
PT-01	STEEL COLUMN & BEAM COATING	BRIDGE STRUCTURE	EXTERIOR APPLICATION HIGH PERFORMANCE COATING. PRIMER TWO COATS EPOXY, POLYURETHANE TOPCOAT	GRAY, WHITE	09 90 10, 09 91 15
PT-02	HIGH PERFORMANCE COATING		EXTERIOR APPLICATION HIGH PERFORMANCE COATING. REFER TO CIVIL SPECIFICTIONS	GRAY	
	ROOFING				
RF-01	METAL ROOFING/SNOW	PEDESTRIAN BRIDGE & ELEVATOR TOWER	STANDING SEAM METAL, INCLUDES ALL FLASHING, GUTTER AND SNOW GUARDS (FXS-11)	LIGHT GRAY	07 41 33.01
RF-02	MEMBRANE ROOFING	MACHINE ROOM	ETHYLENE PROPYLENEDIENE MONOMER (EPDM) ROOFING	WHITE	=

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS REVISIONS

AECOM

Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS

PURDYS STATION
SYSTEM & FINISH SCHEDULE

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. **A-003**
SHEET 15 OF 76

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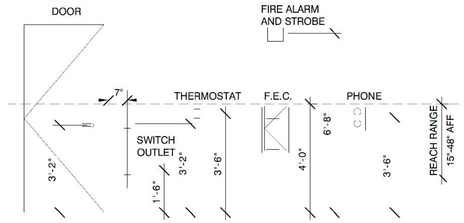
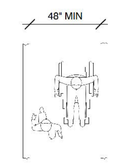
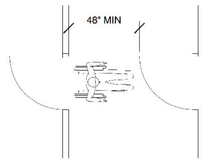
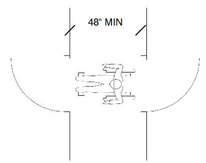




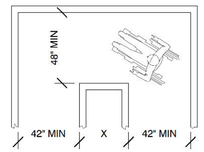
MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON



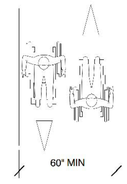
HINGE SIDE APPROACHES - SWINGING DOORS (A)



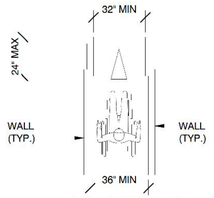
HINGE SIDE APPROACHES - SWINGING DOORS (B)



WIDTH OF ACCESSIBLE ROUTE FOR TURNS AROUND AN OBSTRUCTION

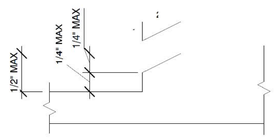


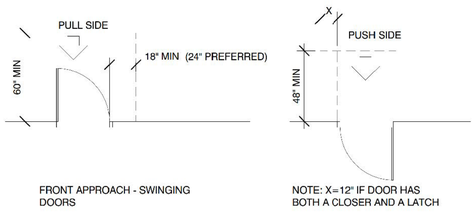
MIN. CLEAR WIDTH FOR TWO WHEELCHAIRS



MIN. CLEAR WIDTH FOR SINGLE WHEELCHAIR

TYPICAL THRESHOLD

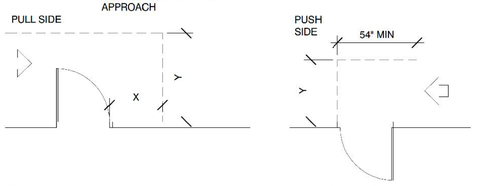




FRONT APPROACH - SWINGING DOORS

NOTE: X=12" IF DOOR HAS BOTH A CLOSER AND A LATCH

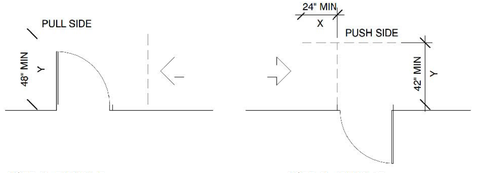
NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACH



NOTE:
X=36" MIN. IF Y=60"
X=42" MIN. IF Y=54"

NOTE: Y=48" MIN IF DOOR HAS BOTH A CLOSER AND LATCH

HINGE SIDE APPROACH - SWINGING DOORS



NOTE: Y=54" MIN. IF DOOR HAS CLOSER

NOTE: Y=48" MIN. IF DOOR HAS CLOSER

LATCH SIDE APPROACH - SWINGING DOORS

NOTE:
THE CONDITIONS ILLUSTRATED ON THIS SHEET CONSTITUTE LEGAL STANDARDS FOR HANDICAPPED ACCESSIBILITY. THEY ARE NOT INTENDED TO DEPICT ACTUAL ARCHITECTURAL CONDITIONS FOR CONSTRUCTION IN THE COURSE OF THIS WORK. SEE ENCLOSED ARCHITECTURAL DRAWINGS FOR ACTUAL EXTENT OF WORK. NOT ALL CONDITIONS SHOWN HERE NECESSARILY OCCUR IN THIS PROJECT.

CONTRACTOR TO INFORM ARCHITECT WHEN DUE TO FIELD CONDITIONS, ETC. ACTUAL CONSTRUCTION WILL NOT CONFORM TO THESE STANDARDS.

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

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NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION

TYPICAL ACCESSIBILITY DETAILS

CONTRACT NO. 1000106733

SCALE AS NOTED | DATE 11-20-2019

DRAWING NO. **A-004**

SHEET 16 OF 76

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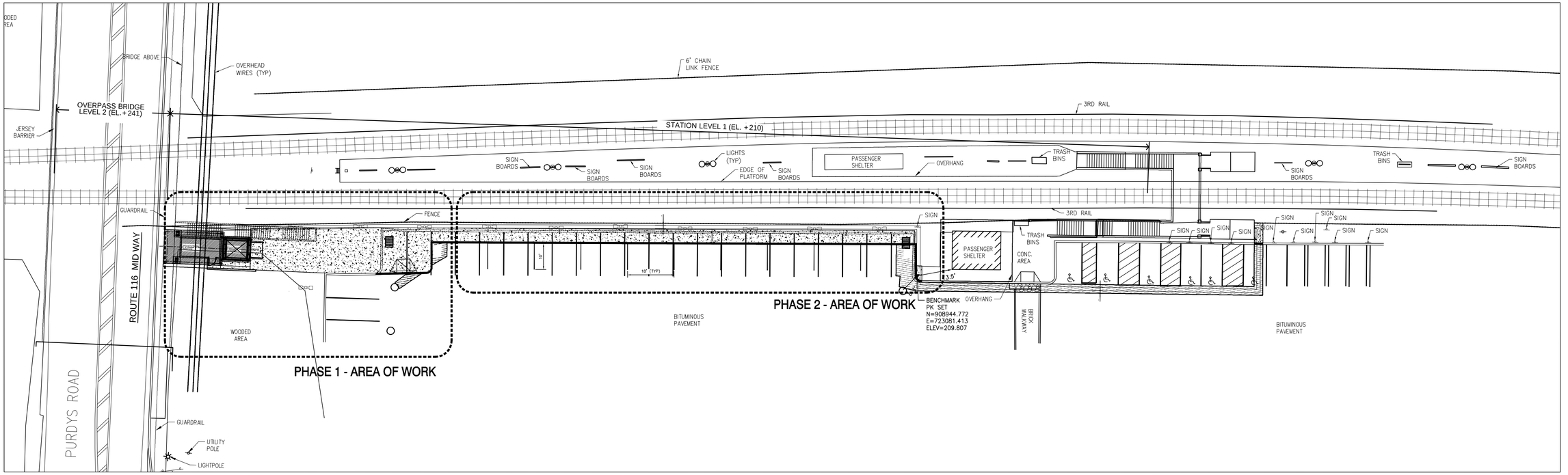

1 A-011 OVERALL ARCH'L SITE PLAN
SCALE: 1" = 20'-0"

TRUE NORTH

20' 10' 0 20' 40'
1" = 20'-0"

100% DESIGN SUBMISSION

DESIGNED AP									CONFORMED					
DRAWN AP														
CHECKED NM														
APPROVED NM	NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
	REVISIONS						REVISIONS							

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347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
OVERALL ARCH'L SITE PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. A-011
SHEET 17 OF 76

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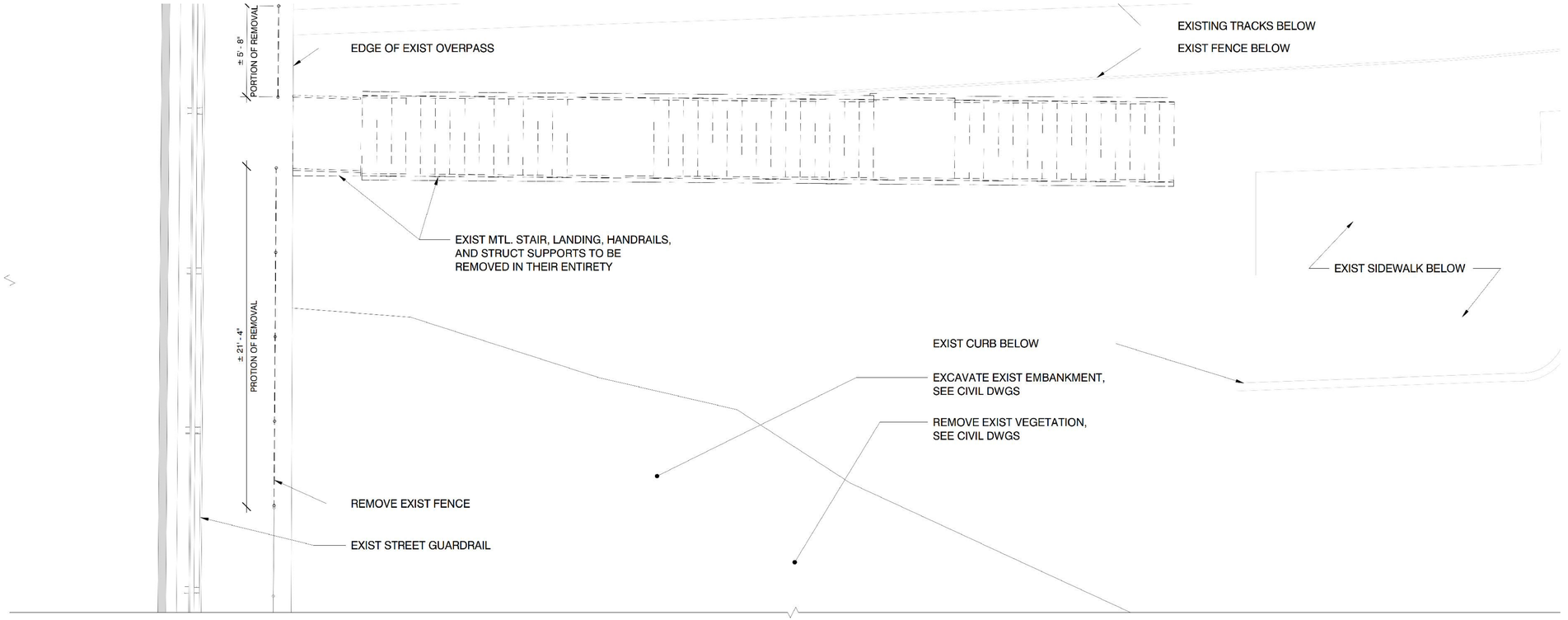
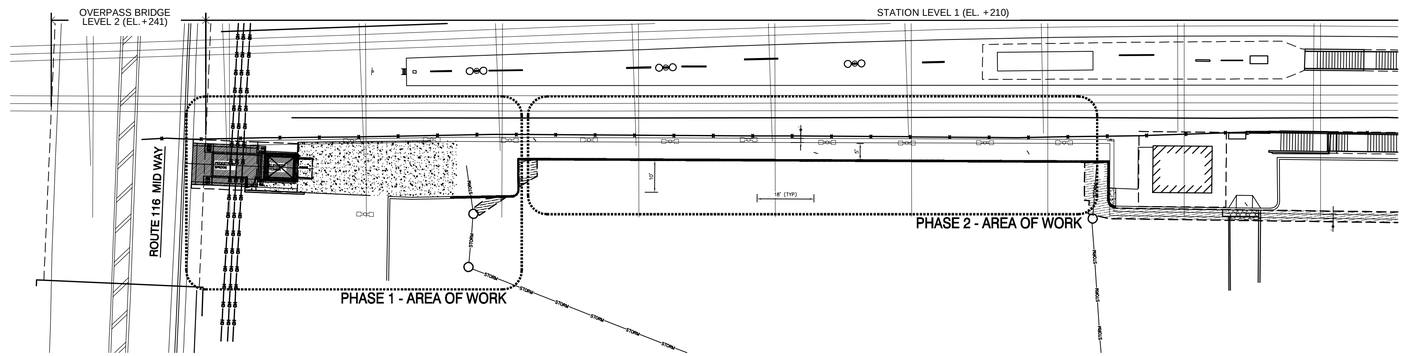


1 A-101 PEDESTRIAN BRIDGE LEVEL DEMOLITION PLAN

SCALE: NTS

NOTE:
SEE CIVIL DRAWINGS FOR COMPLETE SITE DEMOLITION SCOPE.



KEYPLAN
NTS

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

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NO.	DATE		DRWN	CHKD	APPVD

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347 Madison Avenue
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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
DEMOLITION PLAN

CONTRACT NO. 1000106733

SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO. **A-101**

SHEET 18 OF 76

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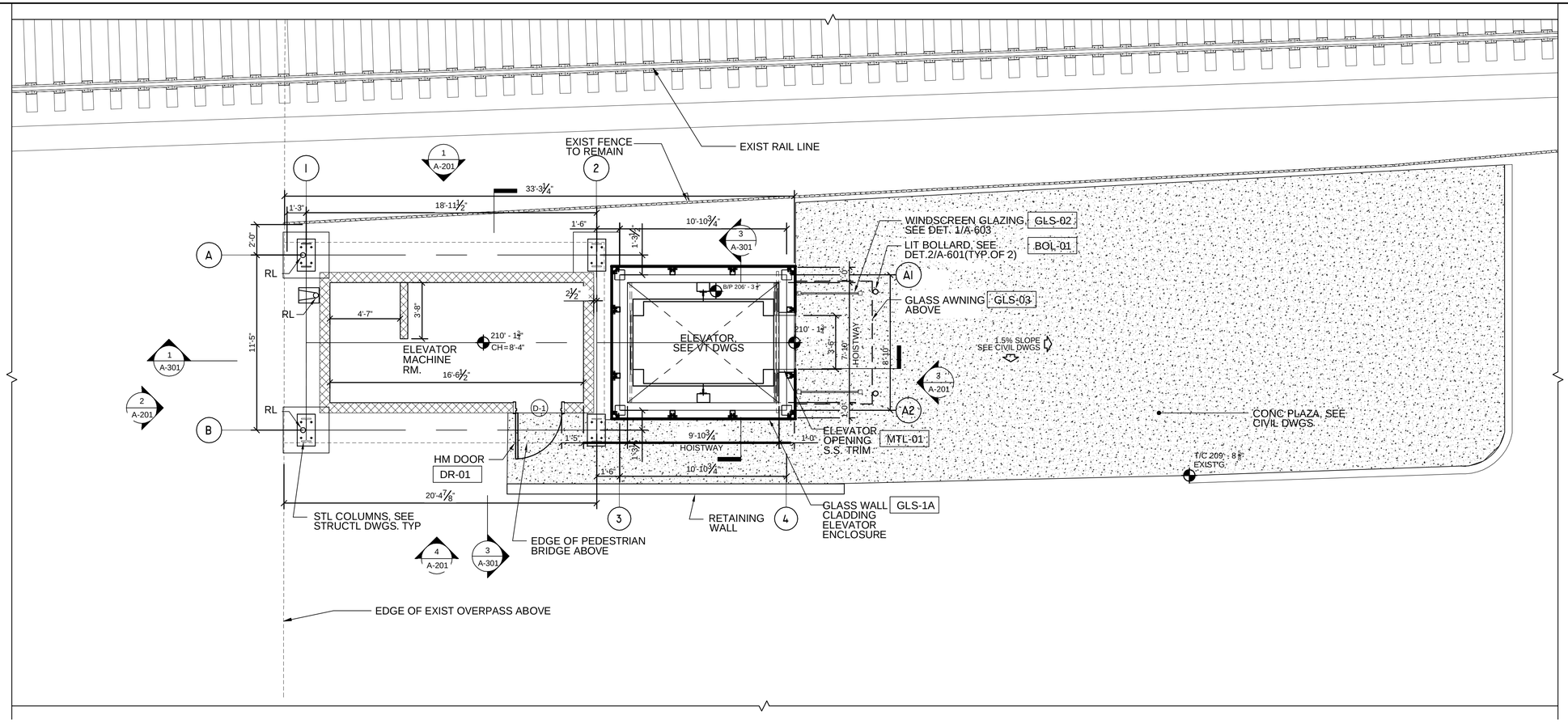
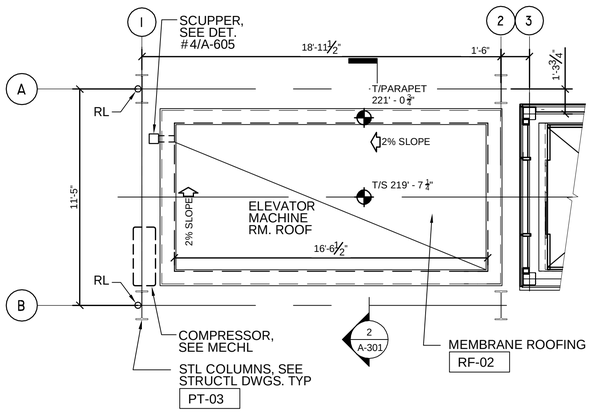
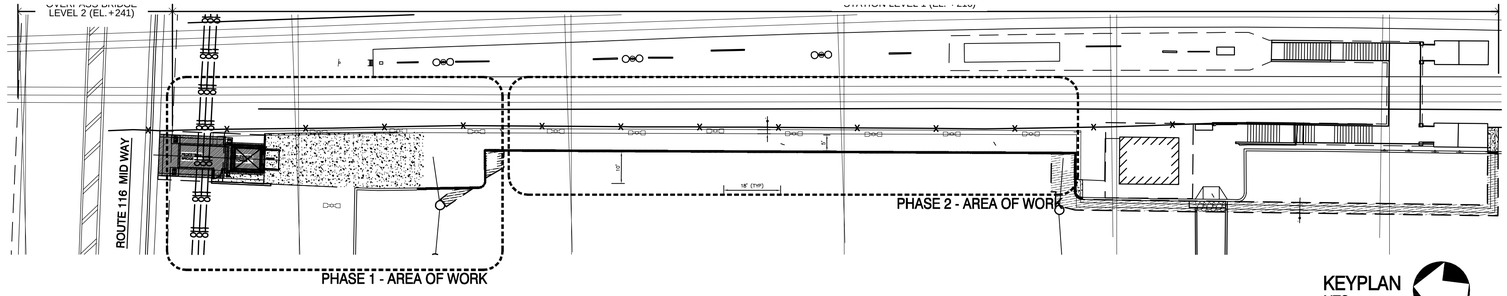




2 A-111 **MACH. RM ROOF LEVEL PLAN**
SCALE: 1/4" = 1'-0"

1 A-111 **STATION LEVEL PLAN**
SCALE: 1/4" = 1'-0"
0 4' 8' 16'
1/4" = 1'-0"



KEYPLAN NTS

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	AP
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APPROVED	NM

NO.	DATE		DRWN	CHKD	APPVD

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347 Madison Avenue
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METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION
STATION LEVEL PLAN

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO. **A-111**
SHEET 19 OF 76

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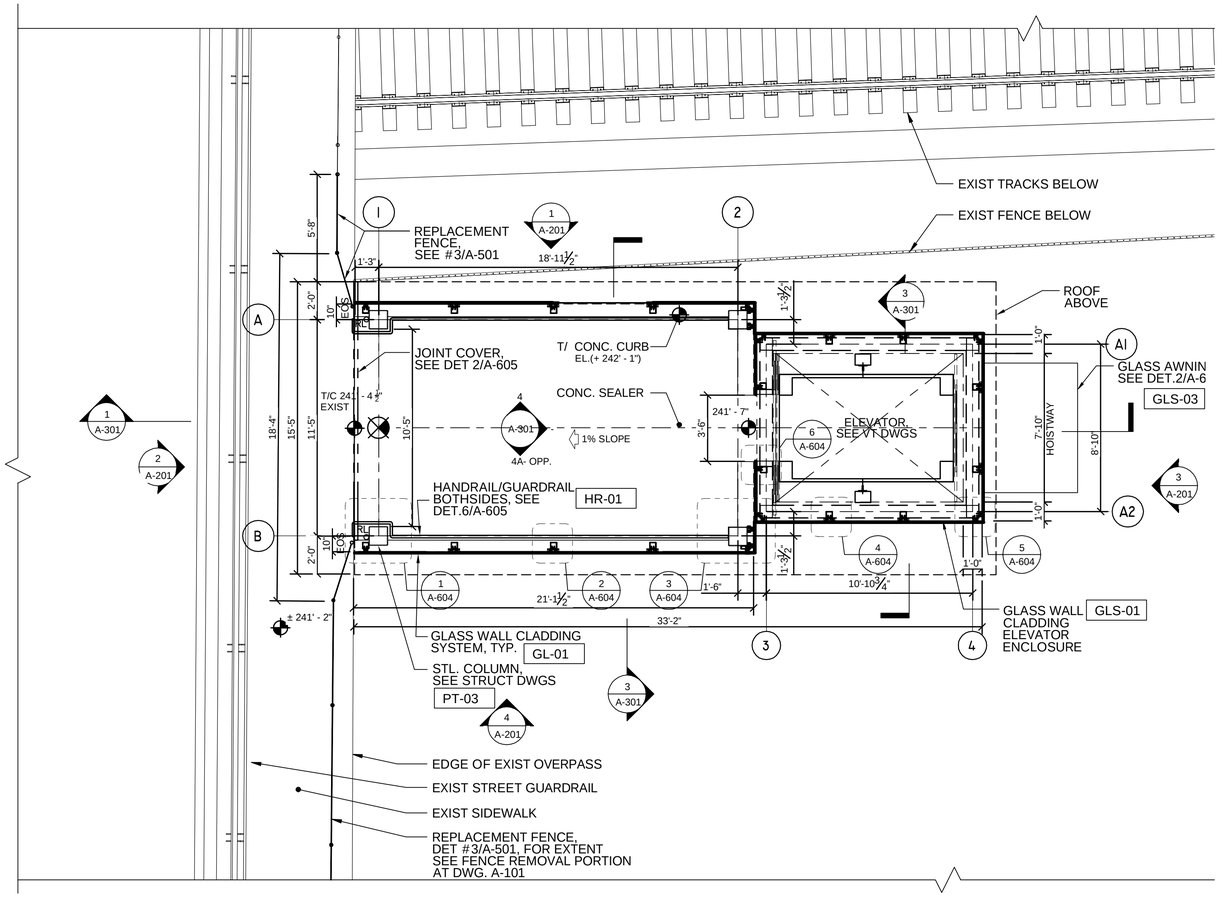
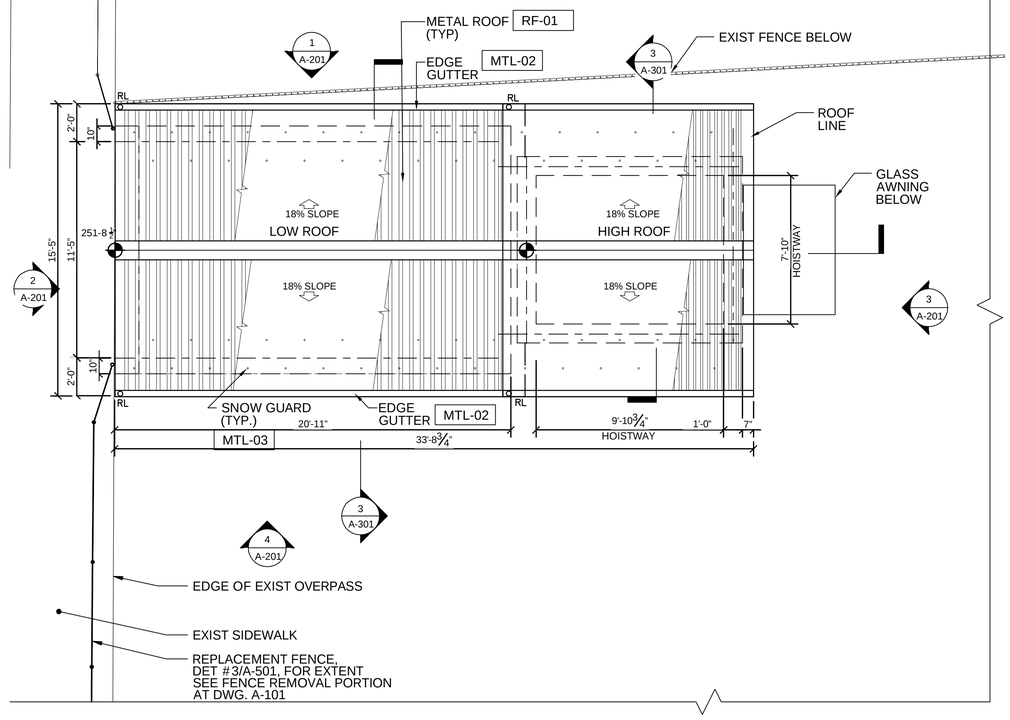
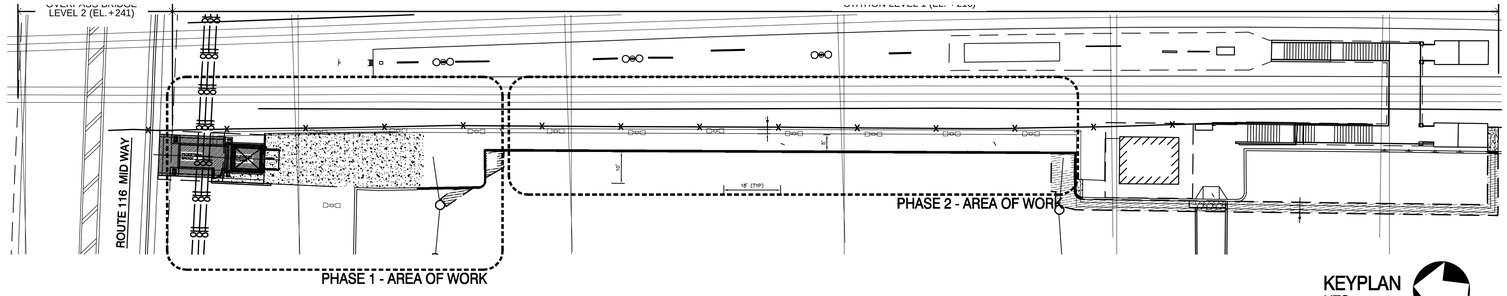


1 A-121 **PEDESTRIAN BRIDGE LEVEL PLAN**
SCALE: 1/4" = 1'-0"



2 A-121 **PEDESTRIAN BRIDGE ROOF LEVEL PLAN**
SCALE: 1/4" = 1'-0"



KEYPLAN
NTS

100% DESIGN SUBMISSION

DESIGNED AP									CONFORMED					
DRAWN AP														
CHECKED NM														
APPROVED NM														
	NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
	REVISIONS						REVISIONS							

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PEDESTRIAN BRIDGE LEVEL PLAN
ROOF LEVEL PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. **A-121**
SHEET 20 OF 76

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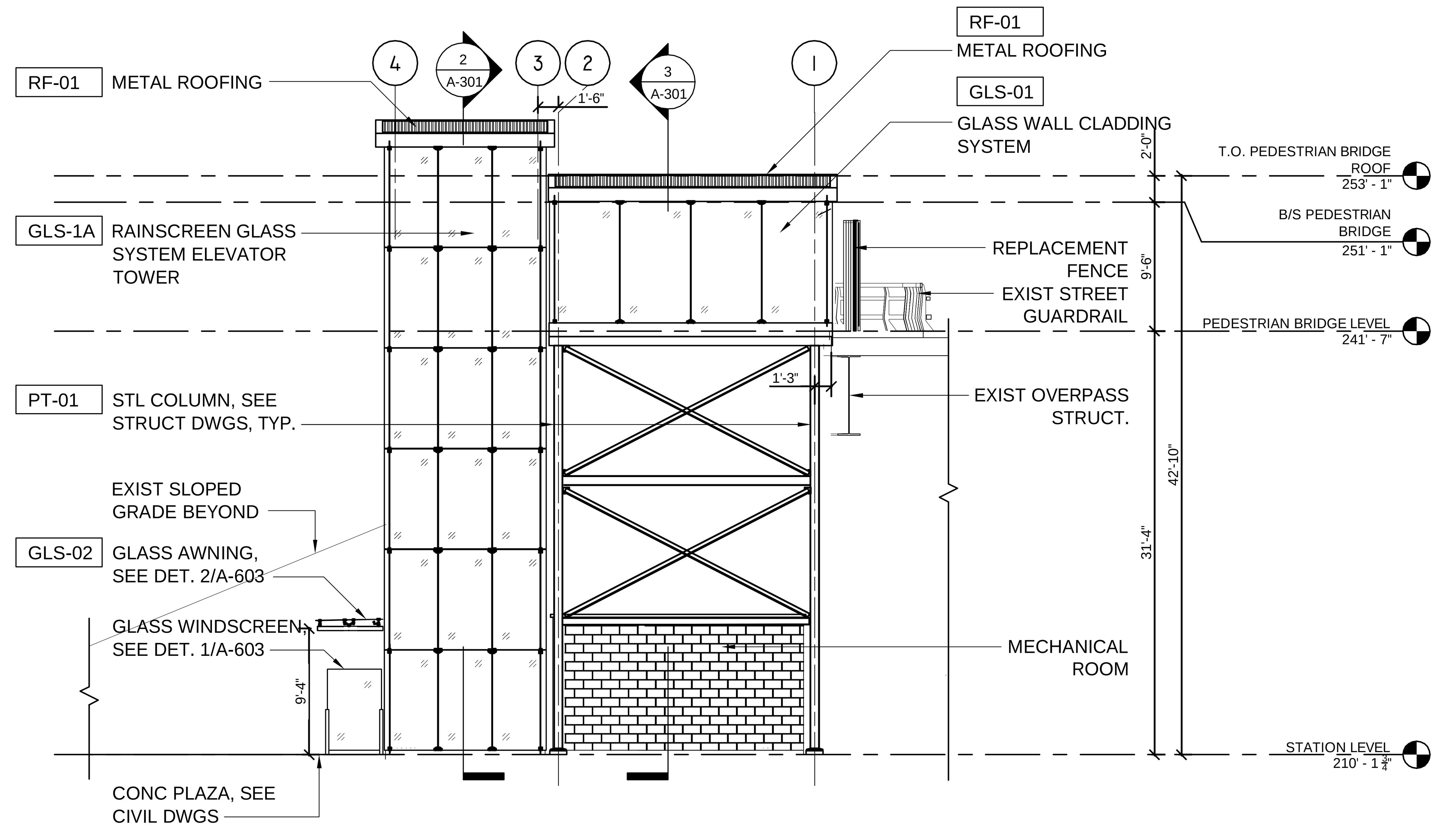
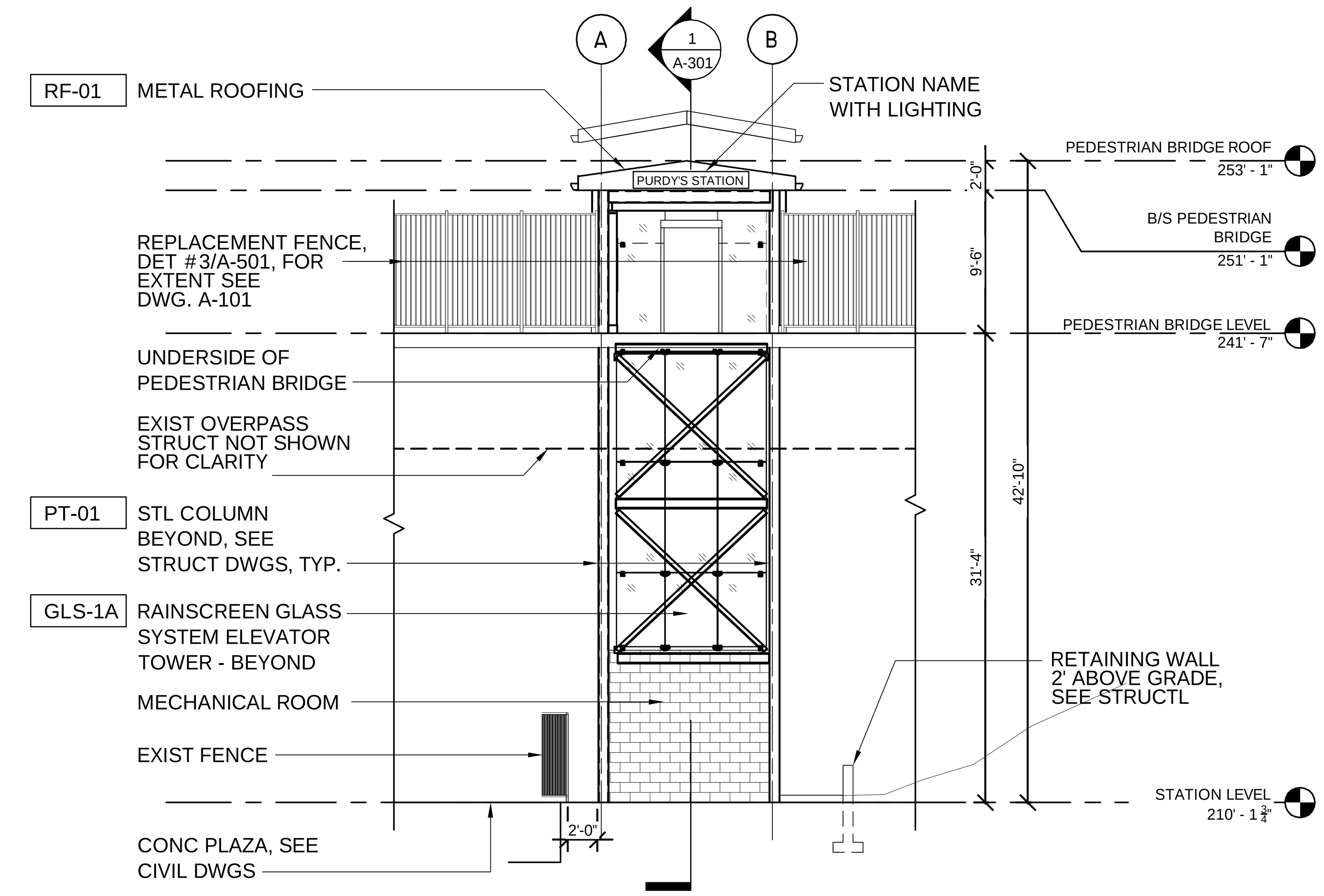
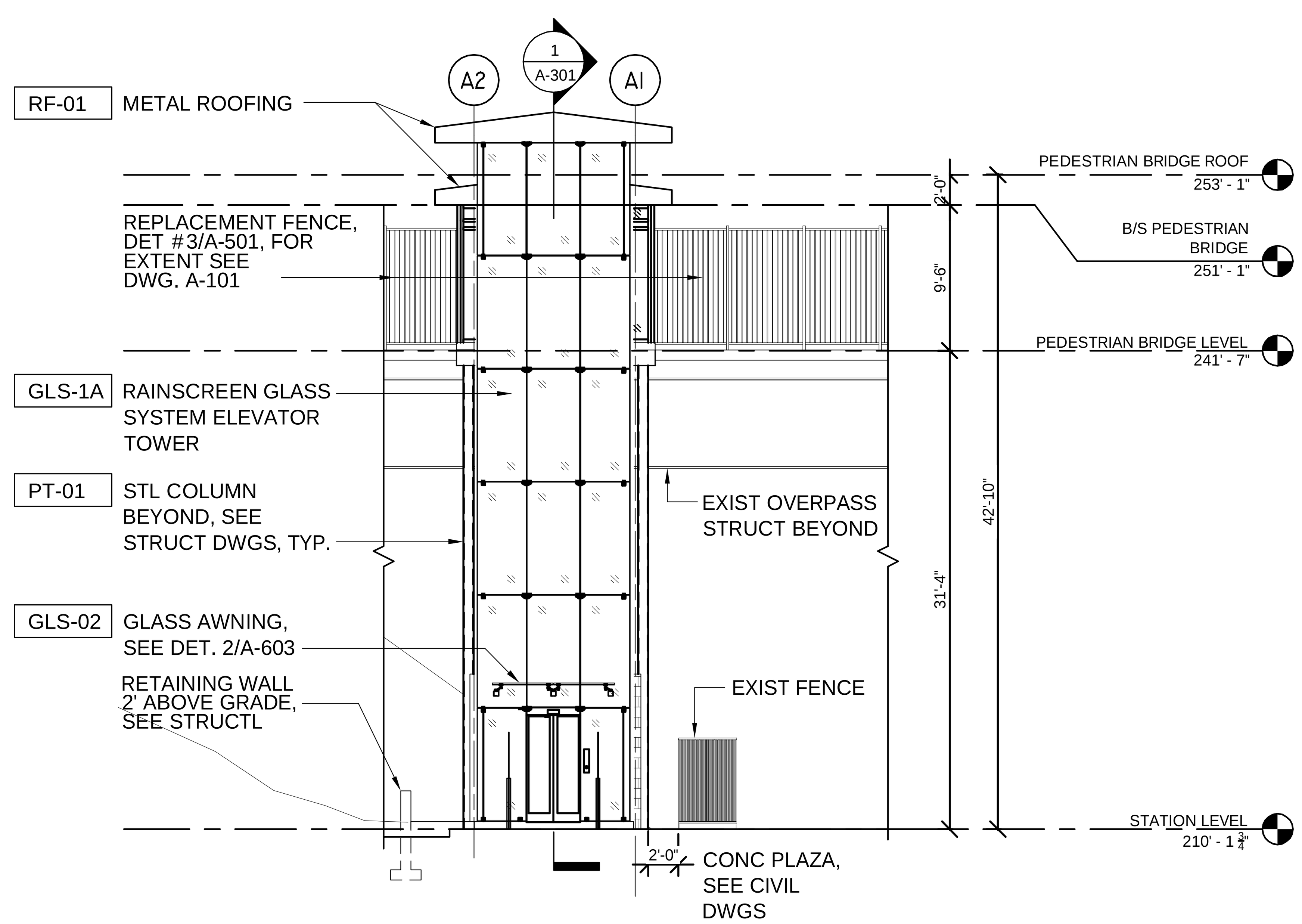


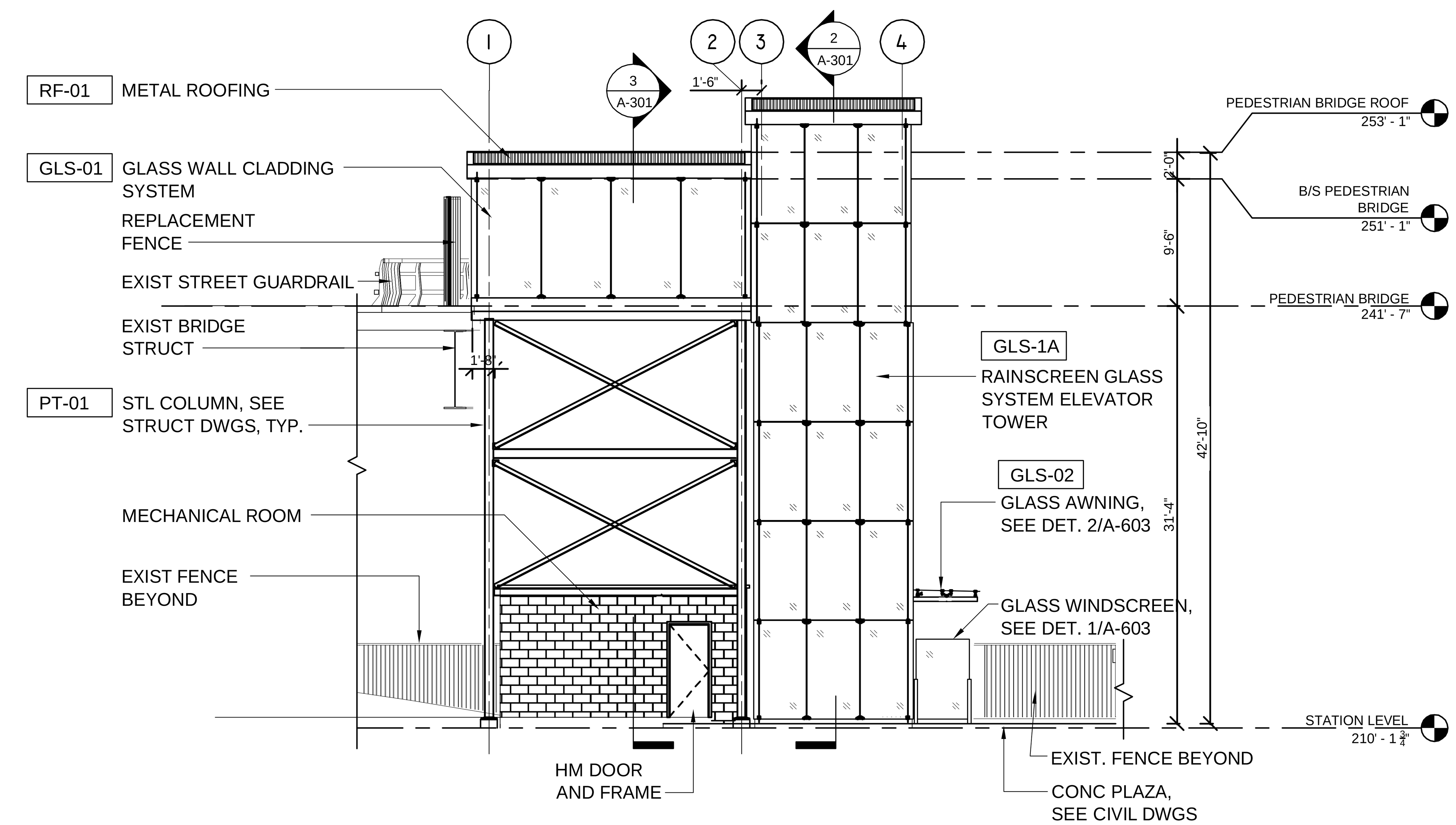
1 A-201 BRIDGE EAST ELEVATION
SCALE: 1/8" = 1'-0"
0 8' 16' 32'
1/8" = 1'-0"



2 A-201 BRIDGE NORTH ELEVATION
SCALE: 1/8" = 1'-0"
0 8' 16' 32'
1/8" = 1'-0"



3 A-201 BRIDGE SOUTH ELEVATION
SCALE: 1/8" = 1'-0"
0 8' 16' 32'
1/8" = 1'-0"



4 A-201 BRIDGE WEST ELEVATION
SCALE: 1/8" = 1'-0"
0 8' 16' 32'
1/8" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	AP
CHECKED	NM
APPROVED	NM

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
ELEVATIONS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. A-201
SHEET 21 OF 76

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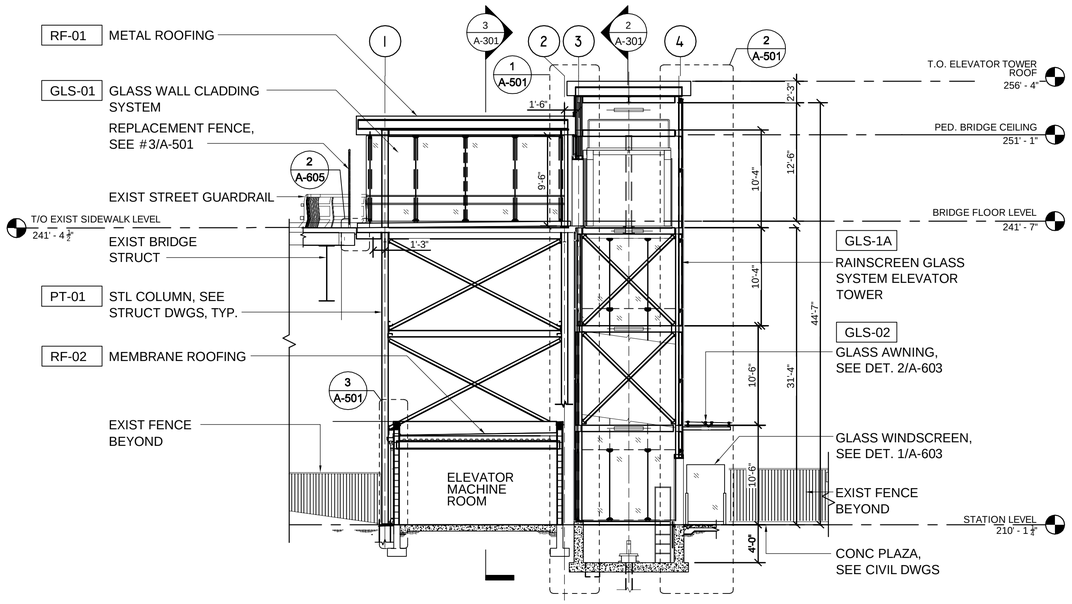
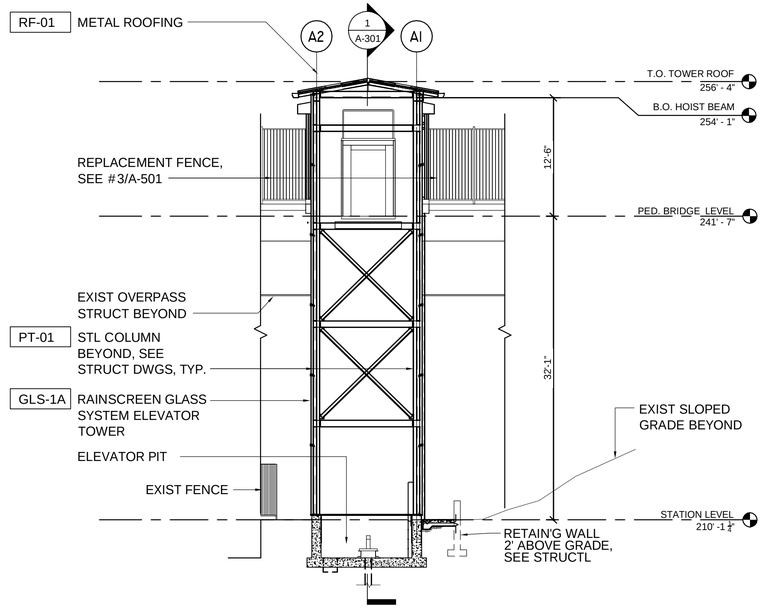


1 A-301 **LONGITUDINAL SECTION**
SCALE: 1/8" = 1'-0"

0 8' 16' 32'

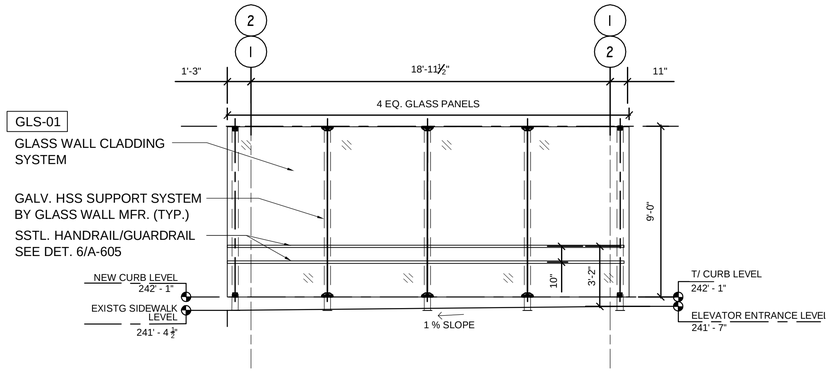
1/8" = 1'-0"



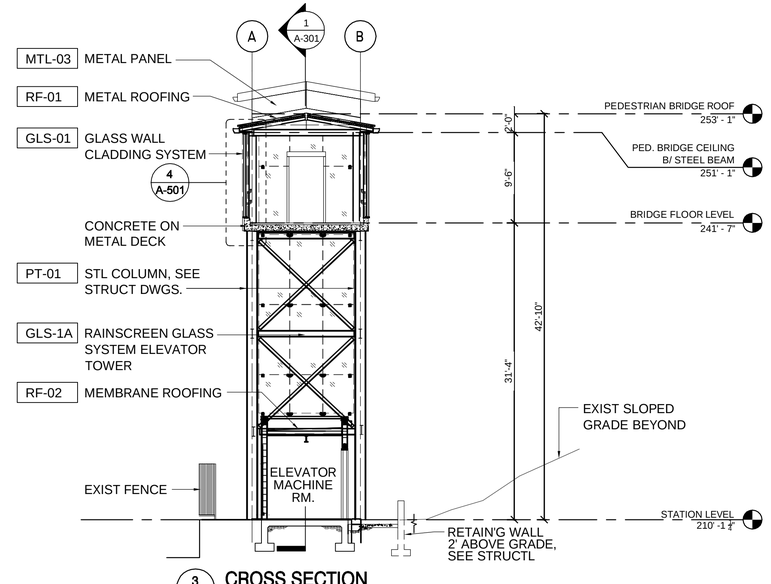
2 A-301 **ELEVATOR HOISTWAY CROSS SECTION**
SCALE: 1/8" = 1'-0"

0 8' 16' 32'

1/8" = 1'-0"



4 A-301 **PEDESTRIAN BRIDGE SECTION**
SCALE: 1/4" = 1'-0"



3 A-301 **CROSS SECTION**
SCALE: 1/8" = 1'-0"

0 8' 16' 32'

1/8" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	AP
CHECKED	NM
APPROVED	NM

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NO.	DATE		DRWN	CHKD	APPVD

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NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION

SECTIONS

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO.
A-301

SHEET 22 OF 76

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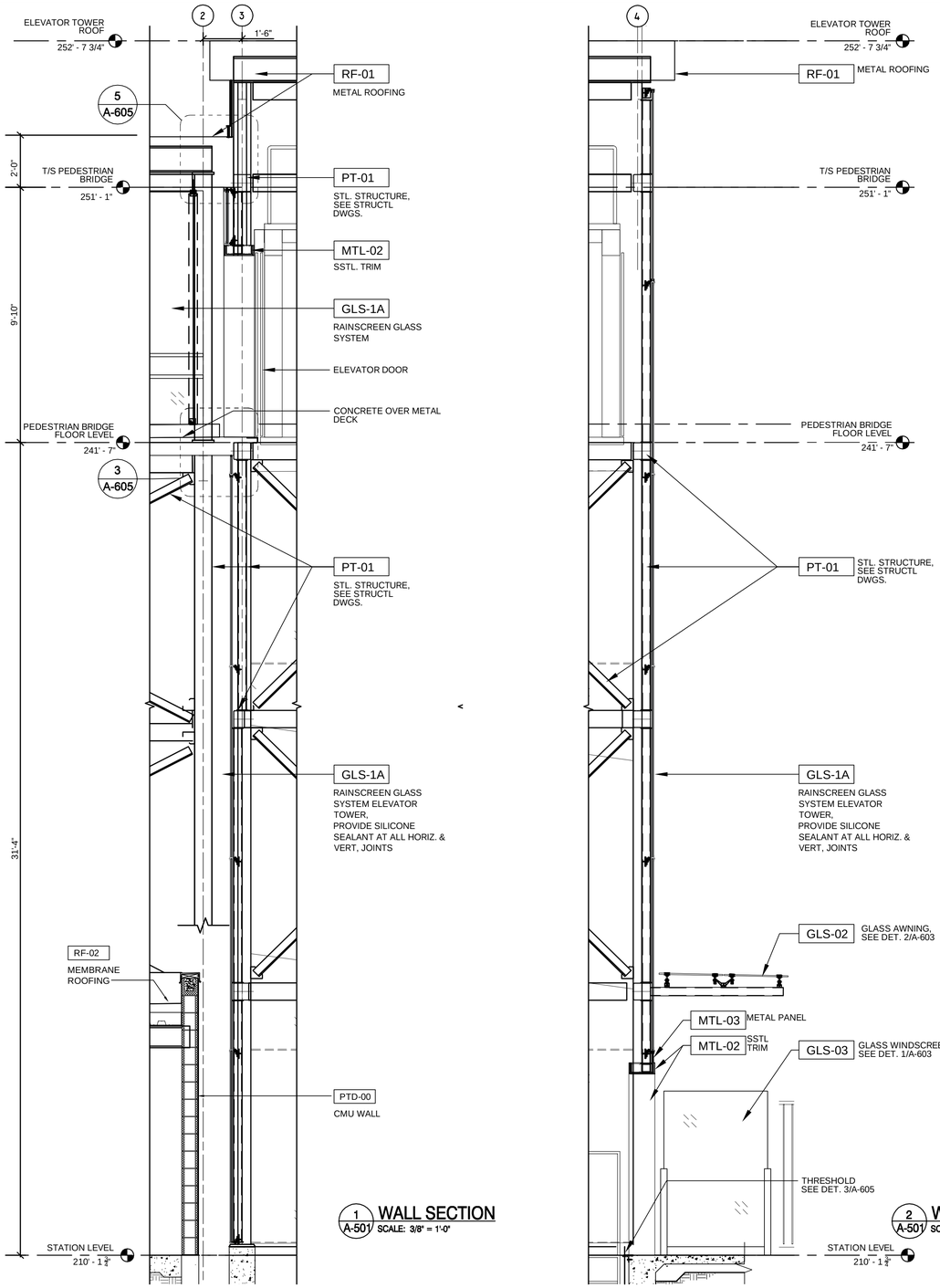
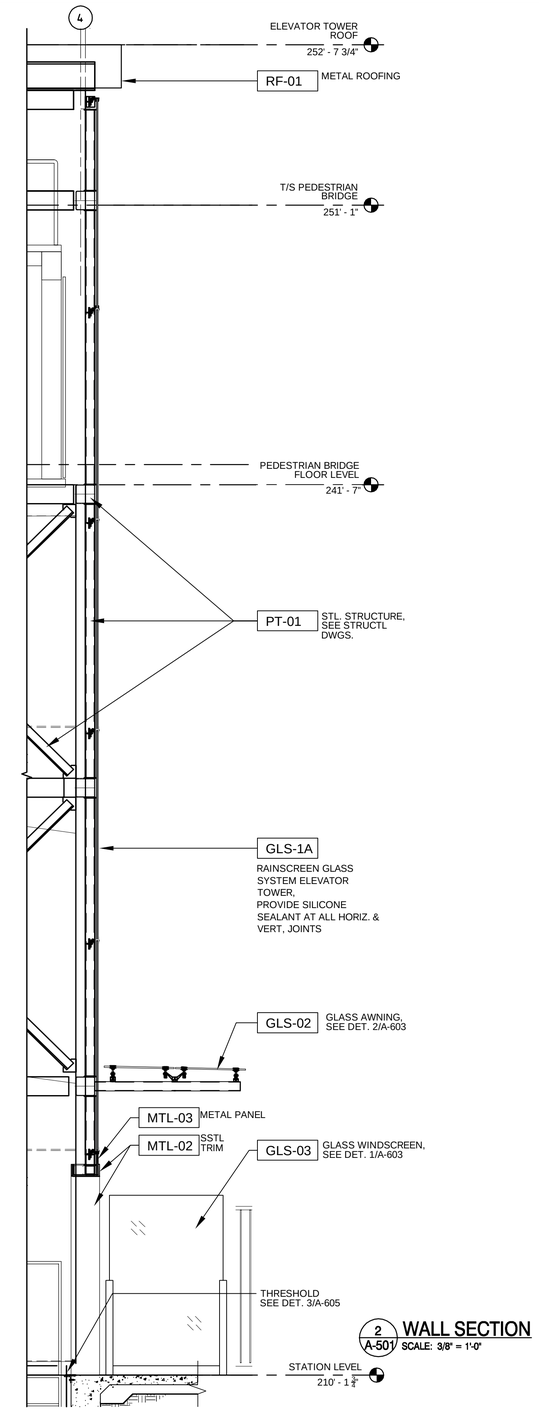
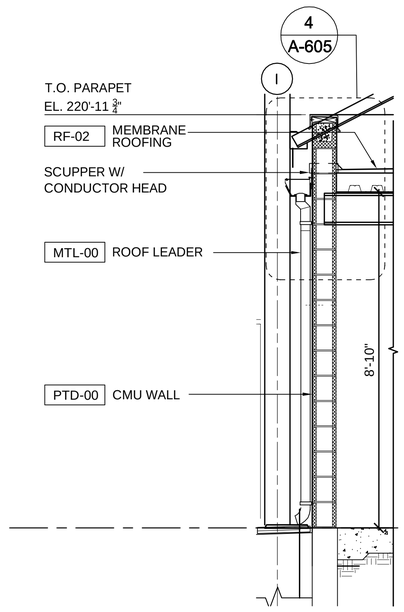


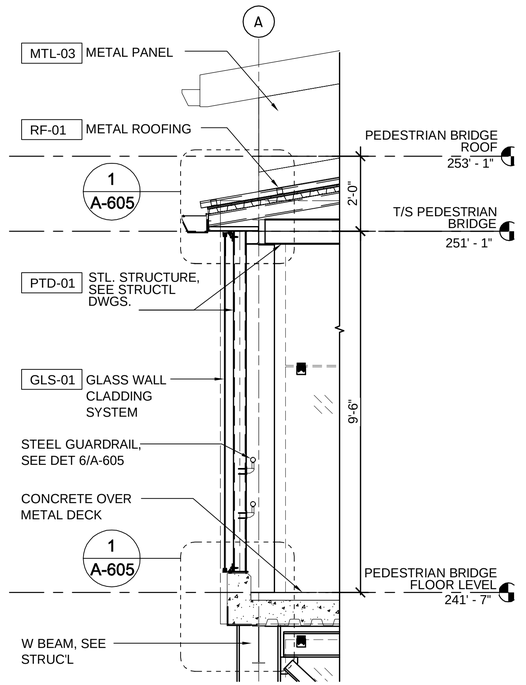
1 A-501 **WALL SECTION** SCALE: 3/8" = 1'-0"



2 A-501 **WALL SECTION** SCALE: 3/8" = 1'-0"



3 A-501 **MACHINE RM. WALL SECTION** SCALE: 1/2" = 1'-0"



4 A-501 **PEDESTRIAN BRIDGE WALL SECTION** SCALE: 1/2" = 1'-0"

100% DESIGN SUBMISSION

								CONFORMED					
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
		REVISIONS						REVISIONS					

DESIGNED AP
DRAWN AP
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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
WALL SECTIONS

CONTRACT NO. 1000106733
SCALE AS NOTED | DATE 11-20-2019
DRAWING NO. A-501
SHEET 23 OF 76

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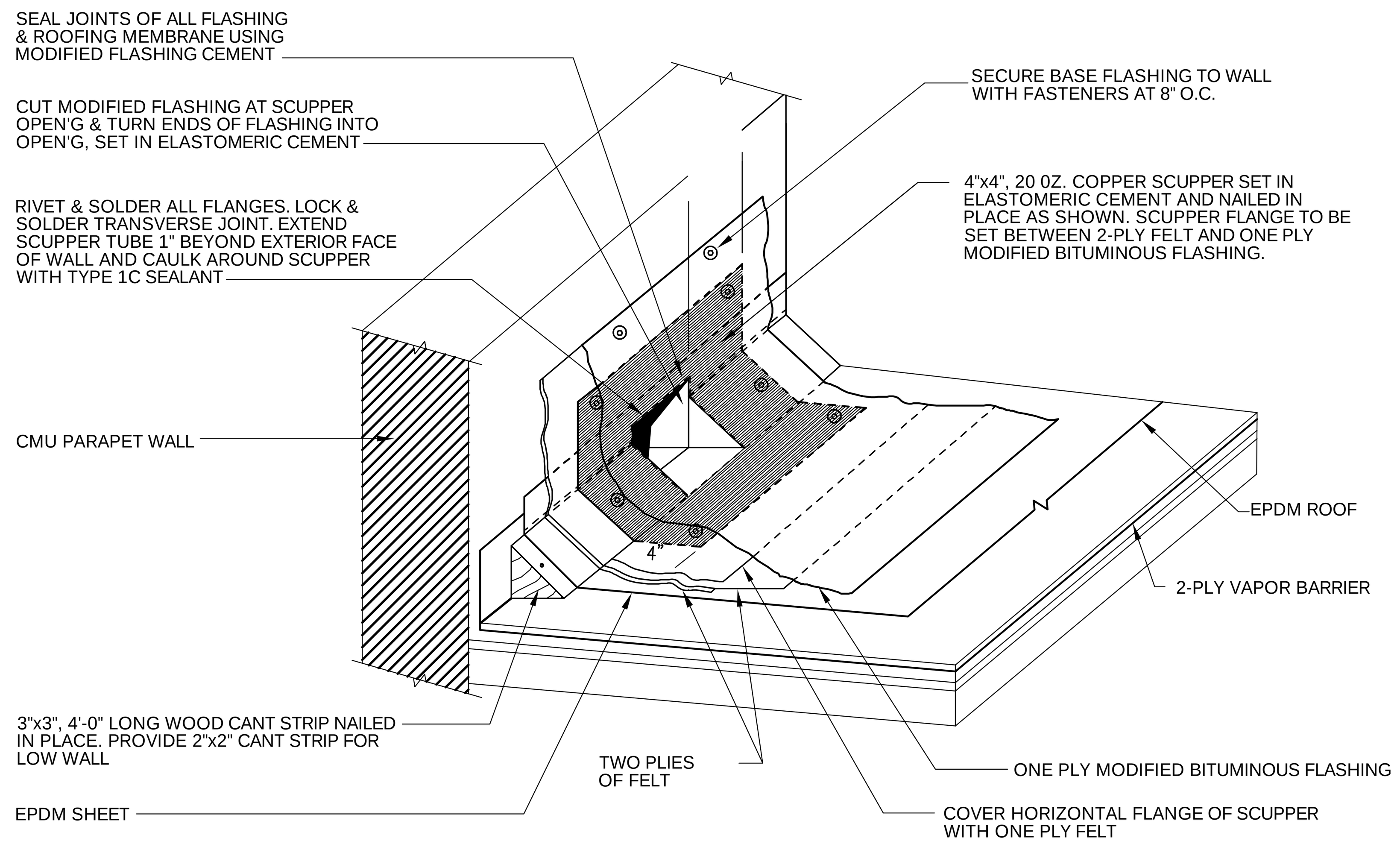
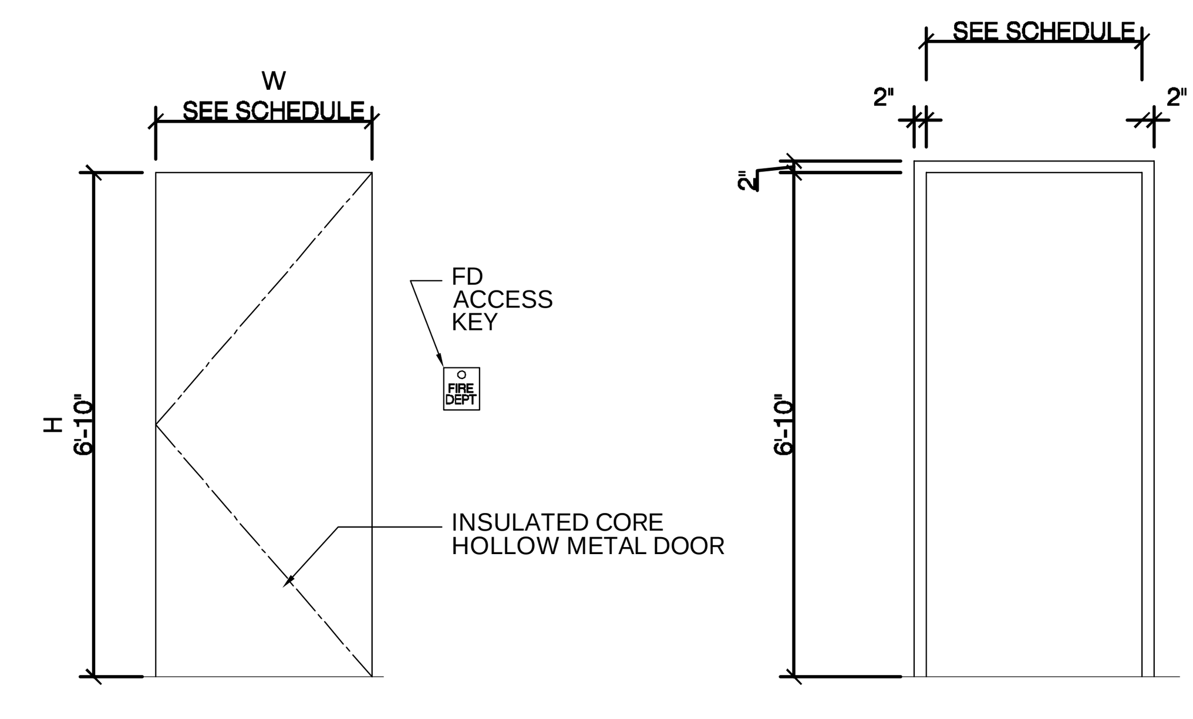
DOOR SCHEDULE - D1												
ROOM NAME	DOOR					FRAME		LABEL	HARDWARE SET	HEAD DETAIL	JAMB DETAIL	REMARK
	SIZE		MATERIAL	TYPE	FINISH	MATERIAL	TYPE					
	W	H										
EV MACHINE ROOM	3'-0"	6'-10"	H.M.	D1	PTD	H.M.	F1	90 MIN.	SET 01	A-601	A-601	U - 0.70



4 A-601 SCUPPER DETAIL
SCALE: ⅜" = 1'-0"

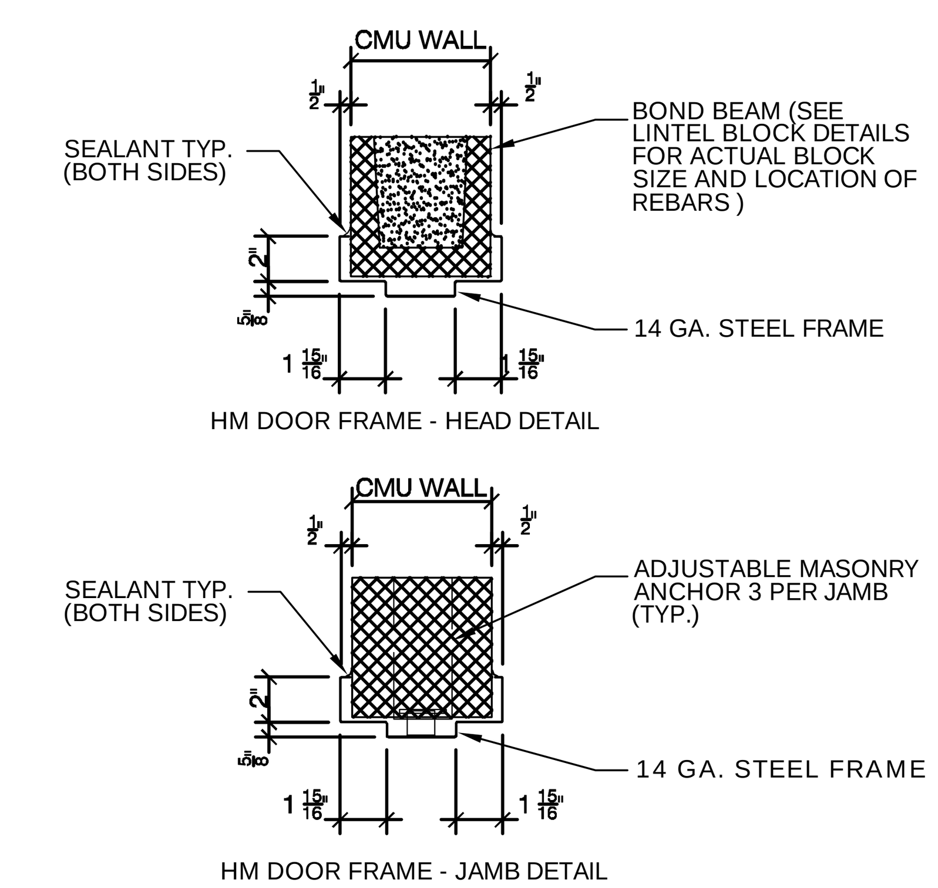


DOOR TYPE - D1

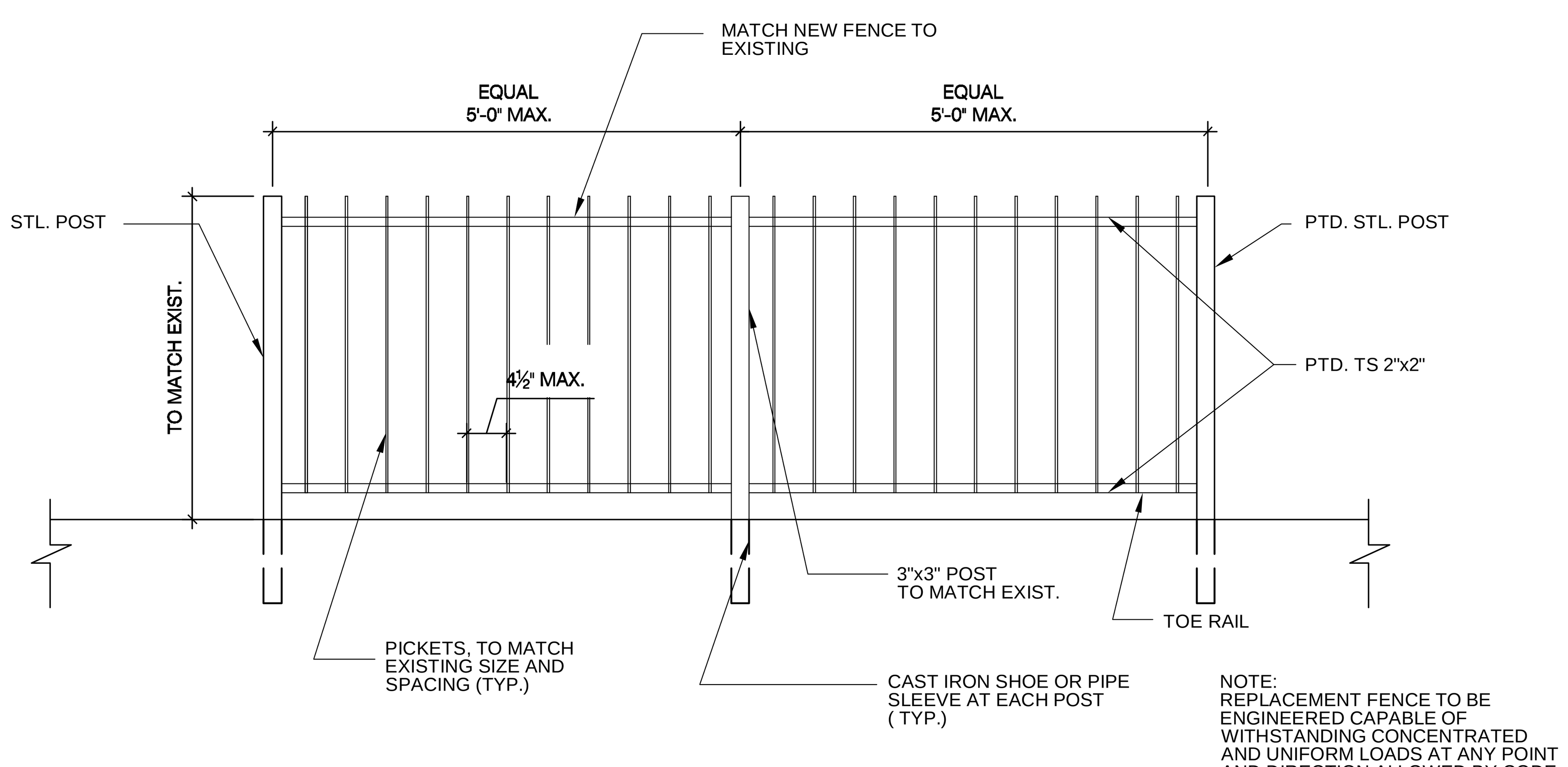
FRAME TYPE - F1

SET 01: EV MACHINE ROOM

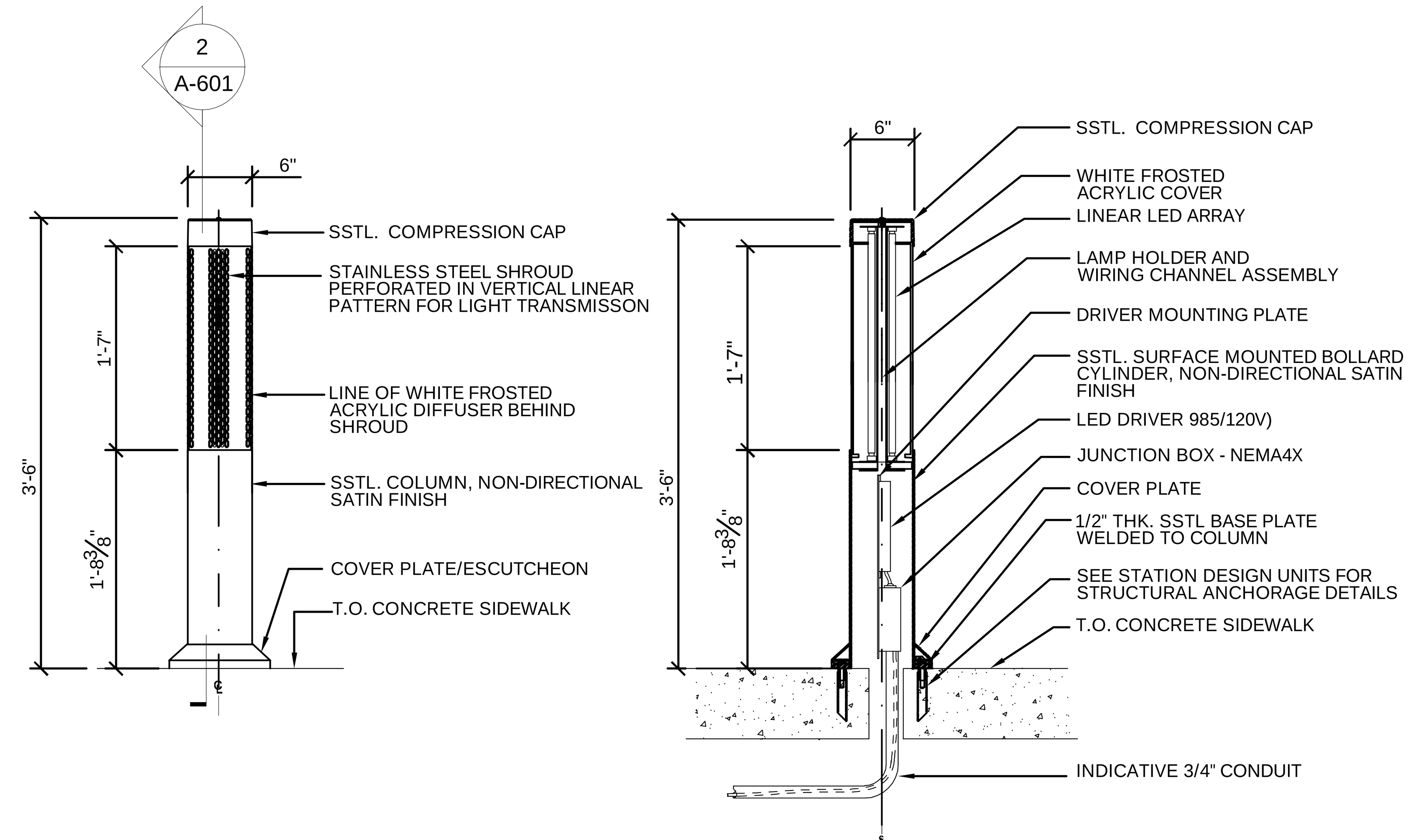
(3) BUTT HINGES
(1) ROOM LOCKSET
(1) CYLINDER
(1) CLOSER
(3) SILENCERS
(1) WEATHER SILL
(1) KNOX BOX-FD KEY ACCESS

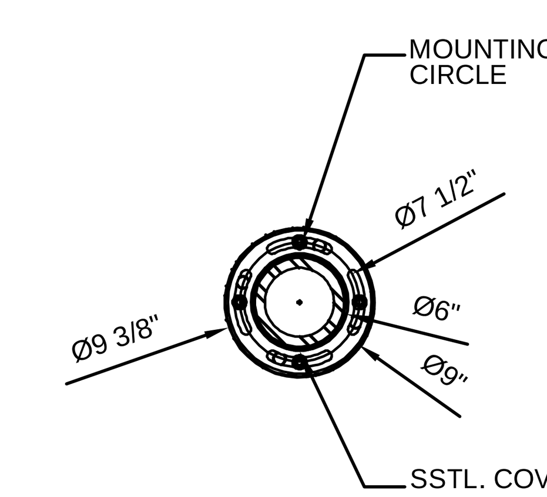


1 A-601 JAMB & HEAD DETAIL
SCALE: 1 ½" = 1'-0"



3 A-501 FENCE REPLACEMENT DETAIL
SCALE: 3/4" = 1'-0"





NOTES

1. TYPE : NON-IMPACT RESISTANT BOLLARD SHALL BE 6" SHORTER, WITH THE REDUCTION COMING FROM THE BOTTOM PORTION.
2. ALL DETAILS ABOVE GRADE, EXCEPT THE OVERALL HEIGHT

2 A-601 BOLLARD DETAIL
SCALE: 1 ½" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED AP	DRAWN JB	CHECKED NM	APPROVED NM

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION MISCELLANEOUS DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. A-601
SHEET 24 OF 76

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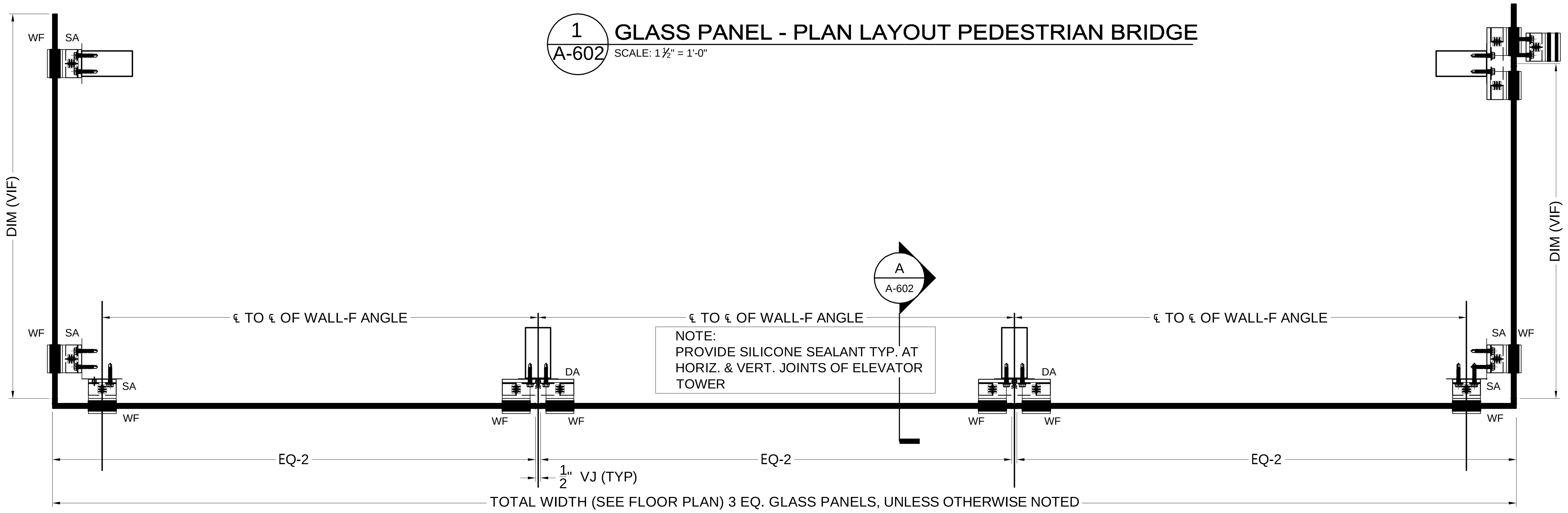
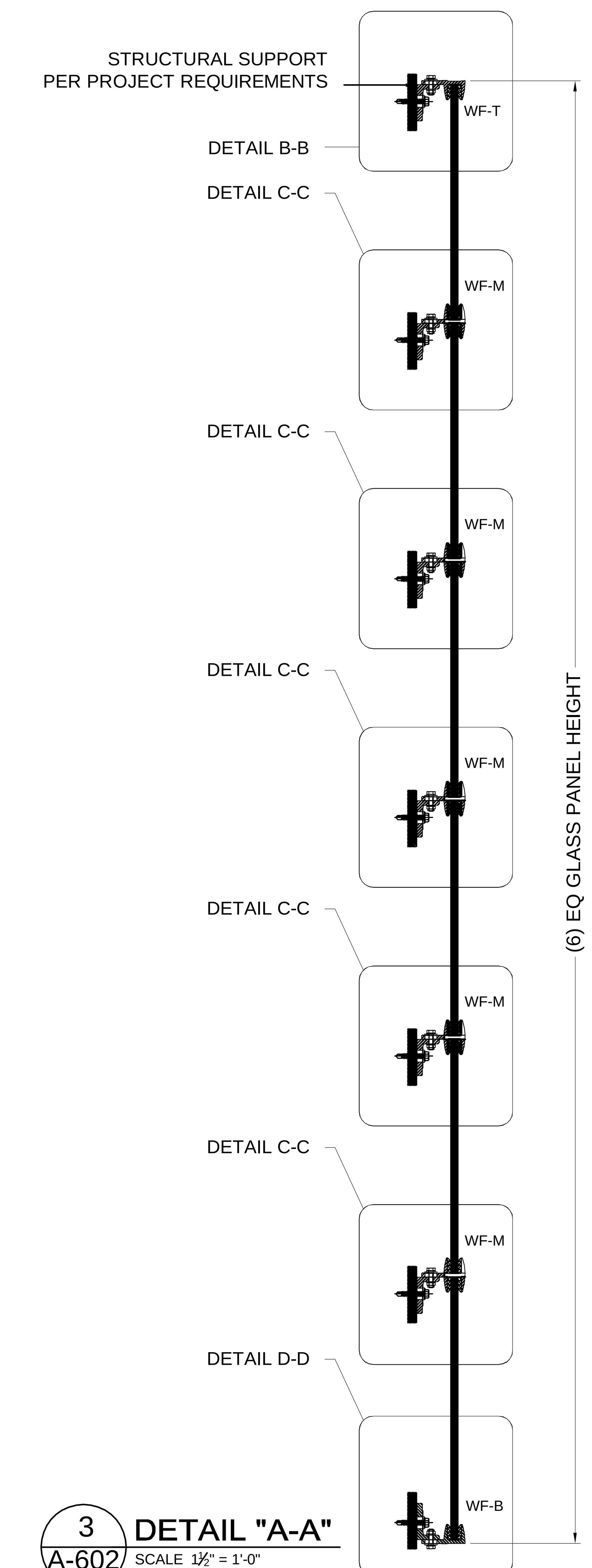
1 / A-602 GLASS PANEL - PLAN LAYOUT PEDESTRIAN BRIDGE
SCALE: 1½" = 1'-0"



2 / A-602 GLASS PANEL - LAYOUT ELEVATOR TOWER
SCALE: 1½" = 1'-0"



3 / A-602 DETAIL "A-A"
SCALE 1½" = 1'-0"

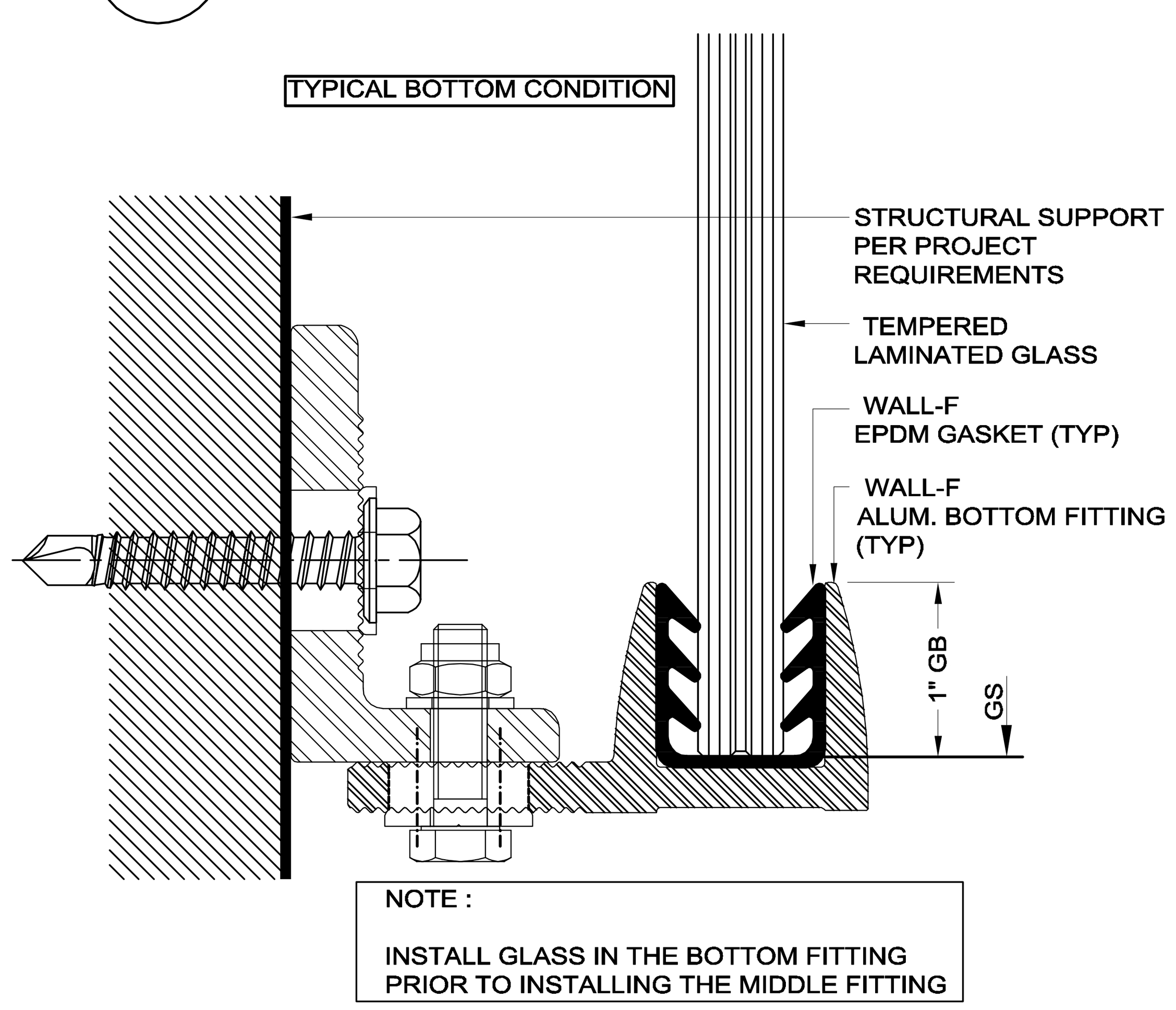
ABBREVIATIONS:

WF-T: WALL FLAT TOP
WF-M: WALL FLAT MIDDLE
WF-B: WALL FLAT BOTTOM

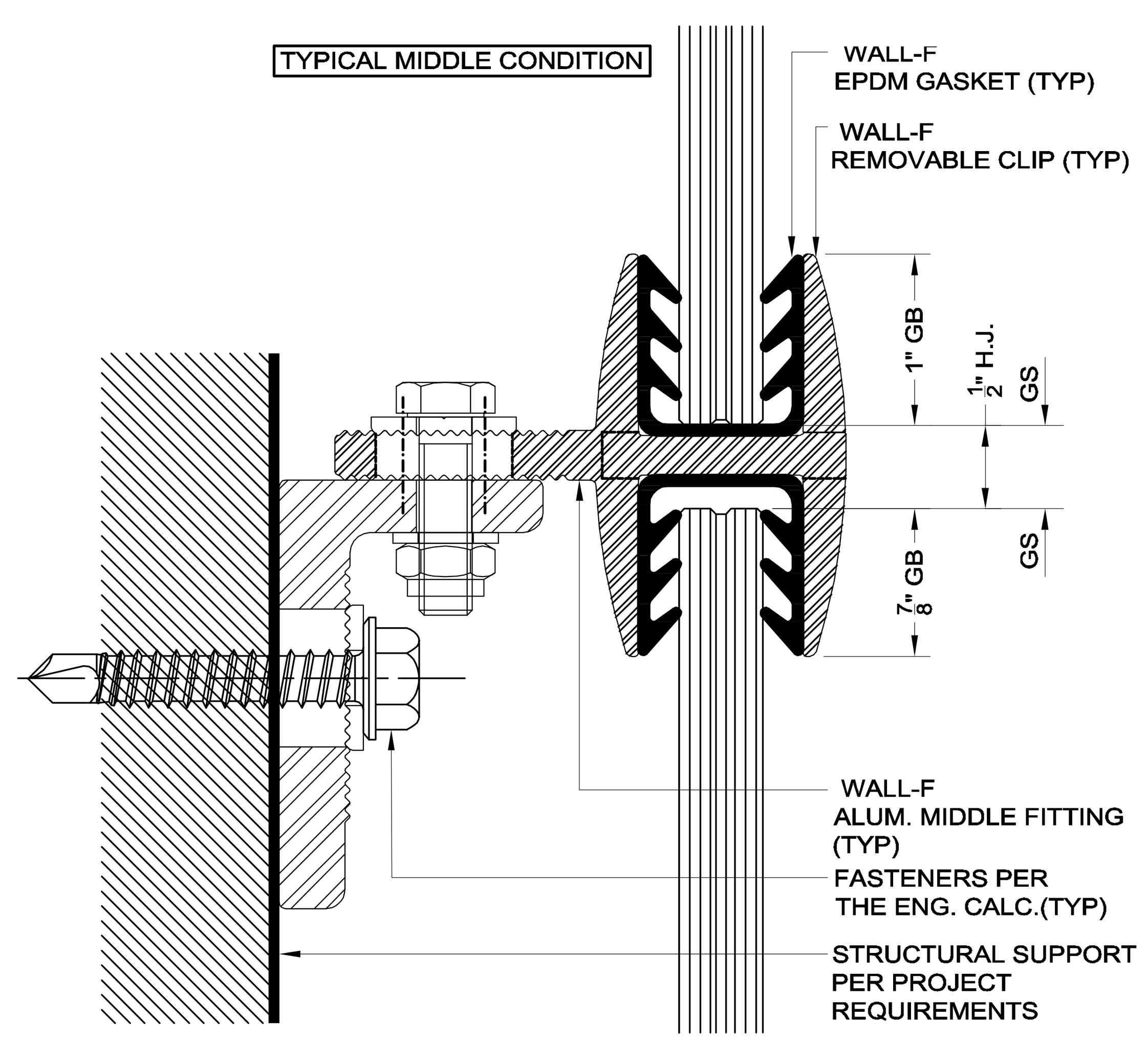
SA: SINGLE ANGLE TO ATTACH FITTINGS
DA: DOUBLE ANGLE TO ATTACH FITTINGS

VJ: VERTICAL JOINT BETWEEN GLASS
HJ: HORIZONTAL JOINT BETWEEN GLASS

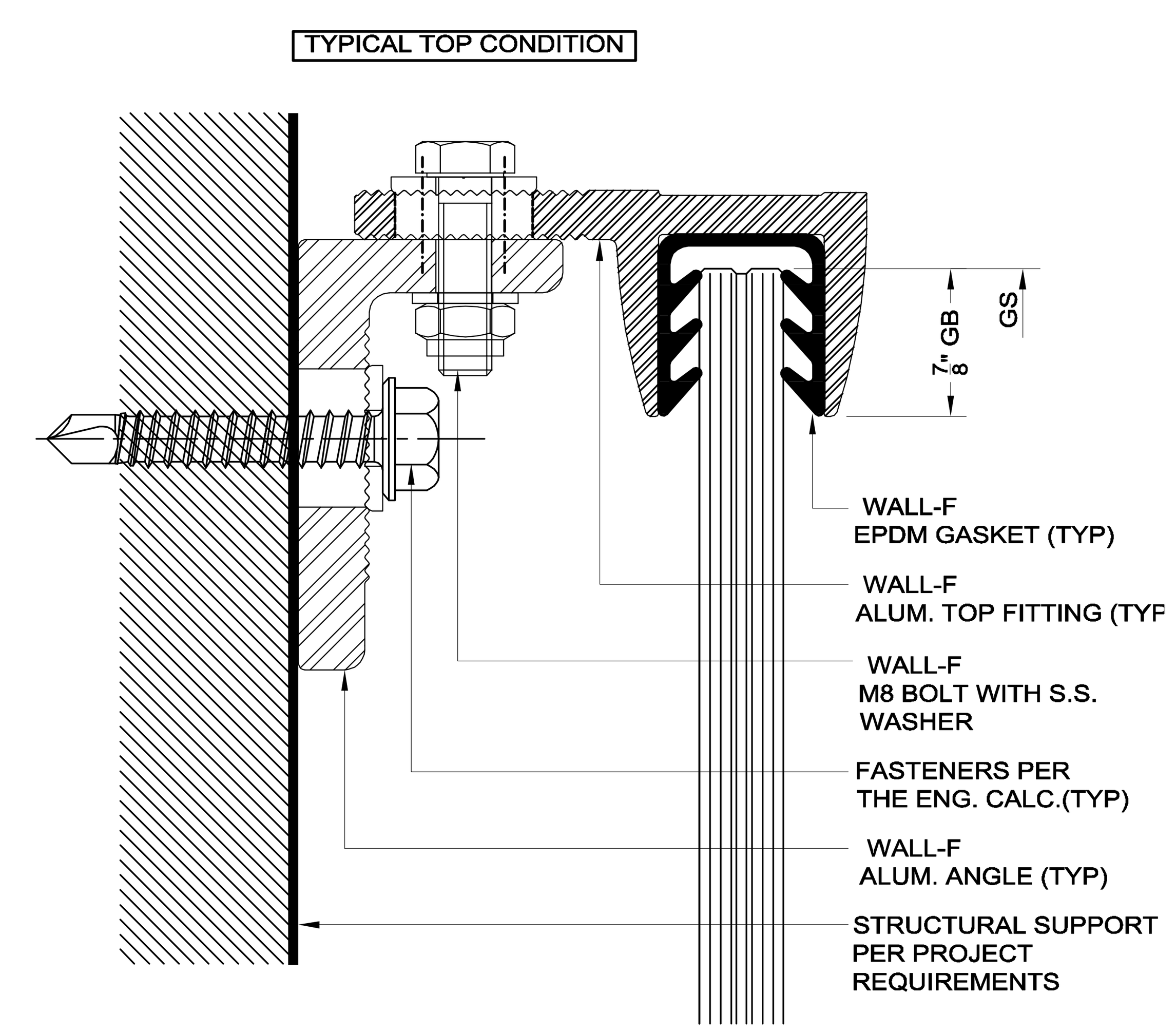
GB: GLASS BITE
GS: GLASS SIZE



6 / A-602 DETAIL "D-D"
SCALE FULL



5 / A-602 DETAIL "C-C"
SCALE FULL



4 / A-602 DETAIL "B-B"
SCALE FULL

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD
	REVISIONS						REVISIONS				

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION GLASS CLADDING

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. A-602
SHEET 25 OF 76

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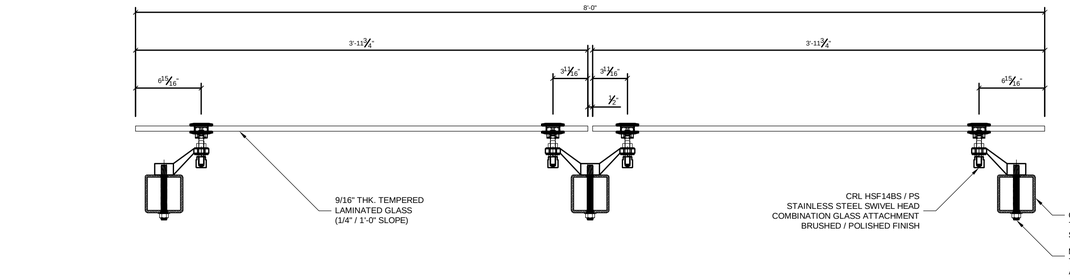
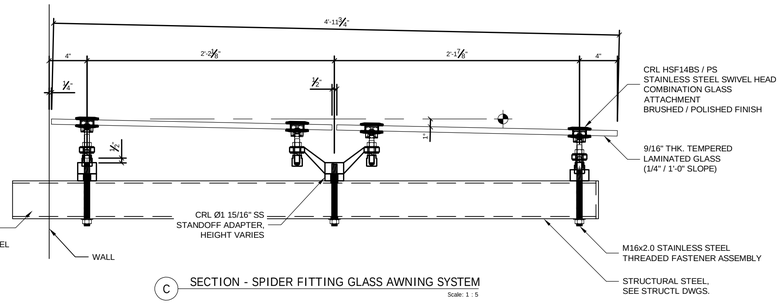
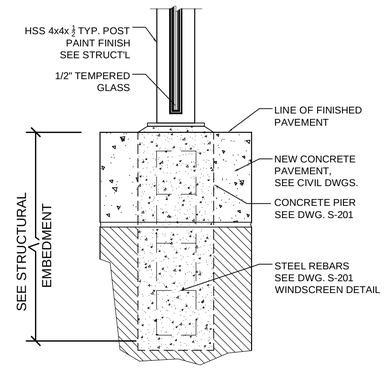


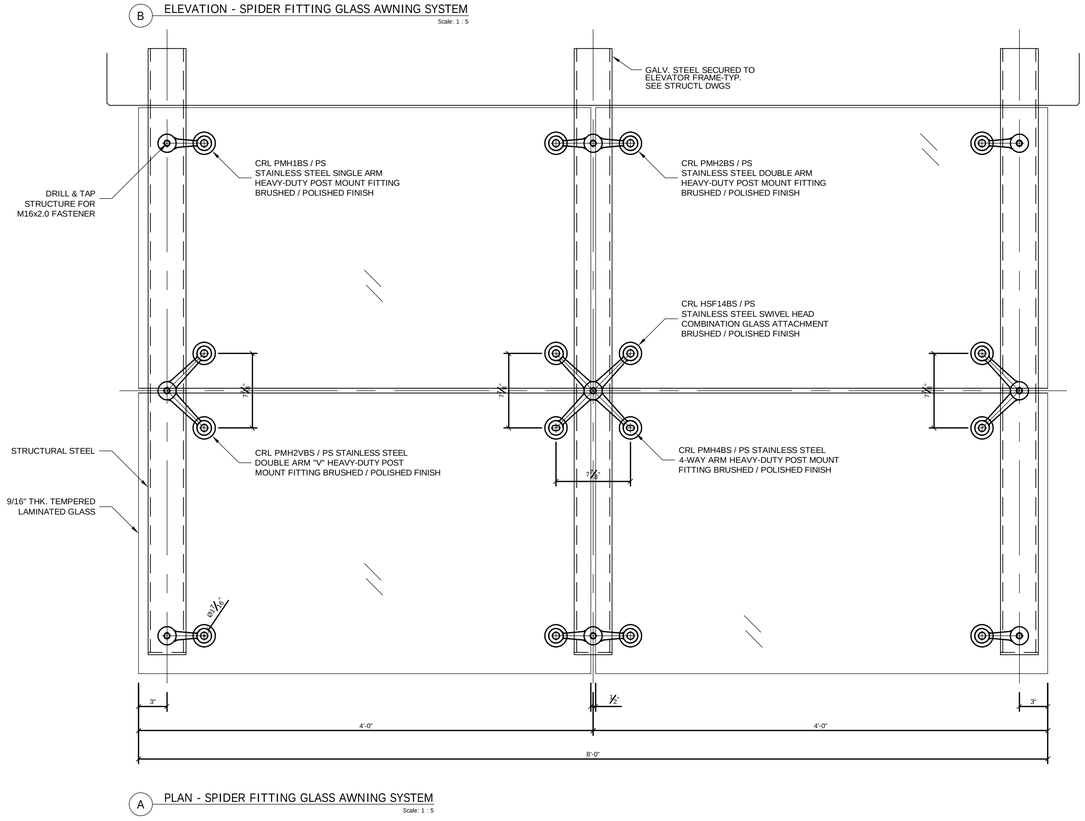
B ELEVATION - SPIDER FITTING GLASS AWNING SYSTEM
Scale: 1 : 5



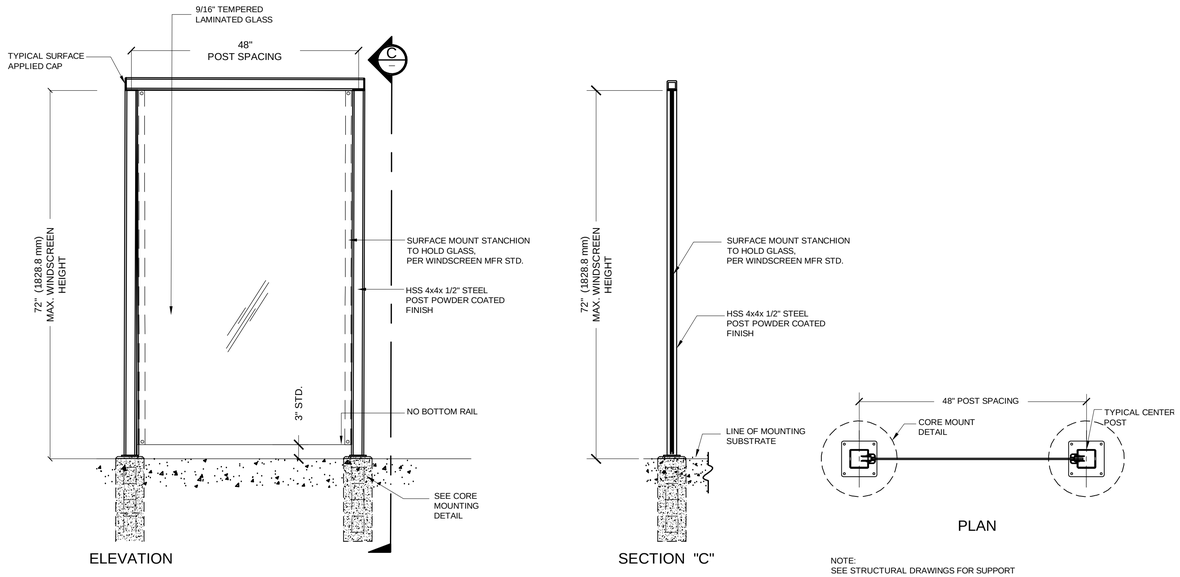
C SECTION - SPIDER FITTING GLASS AWNING SYSTEM
Scale: 1 : 5



3 A-603 CORE MTD DETAIL
SCALE: 6" = 1'-0"



A PLAN - SPIDER FITTING GLASS AWNING SYSTEM
Scale: 1 : 5



2 A-601 AWNING DETAILS
SCALE: 1 1/2" = 1'-0"

1 A-603 WINDSCREEN DETAILS
SCALE: 3/4" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	YM
CHECKED	NM
APPROVED	NM

STATE OF NEW YORK · MELROSE & MONTICELLO · LICENSED PROFESSIONAL ENGINEER · 060833

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION AWNING AND WINDSCREEN DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. A-603
SHEET 26 OF 76

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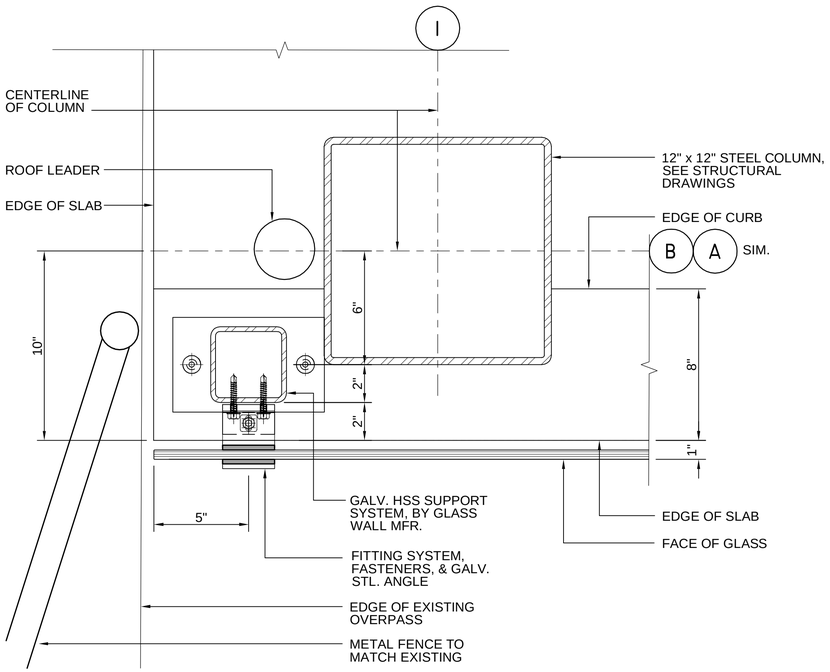
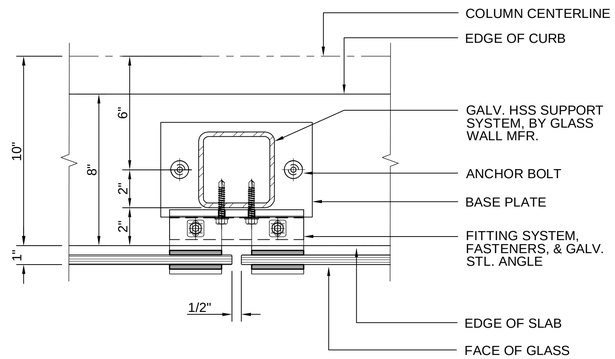


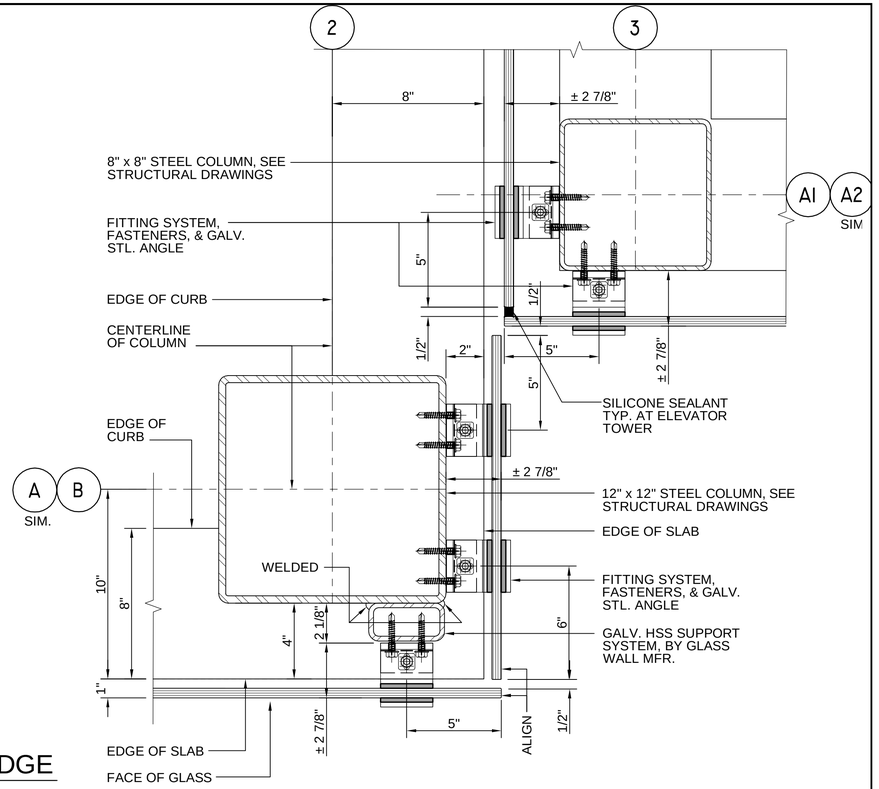
1 A-604 PLAN DETAIL @ PEDESTRIAN BRIDGE CORNER

SCALE: 3" = 1'-0"



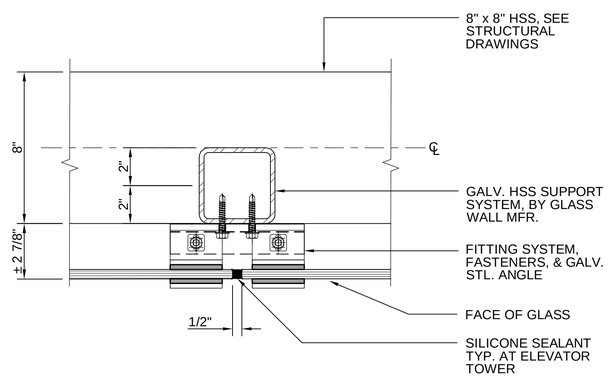
2 A-604 TYP. GLASS SUPPORT @ PEDESTRIAN BRIDGE

SCALE: 3" = 1'-0"



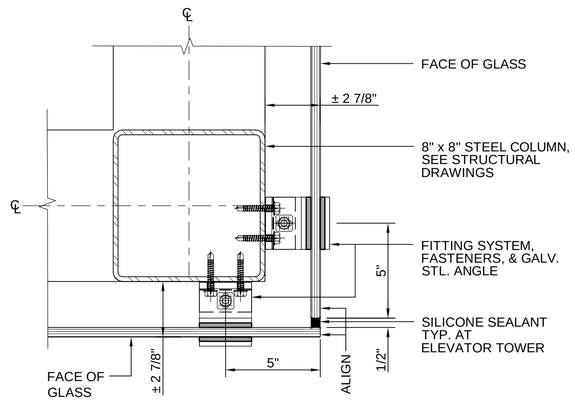
3 A-604 PLAN DETAIL @ CORNER

SCALE: 3" = 1'-0"



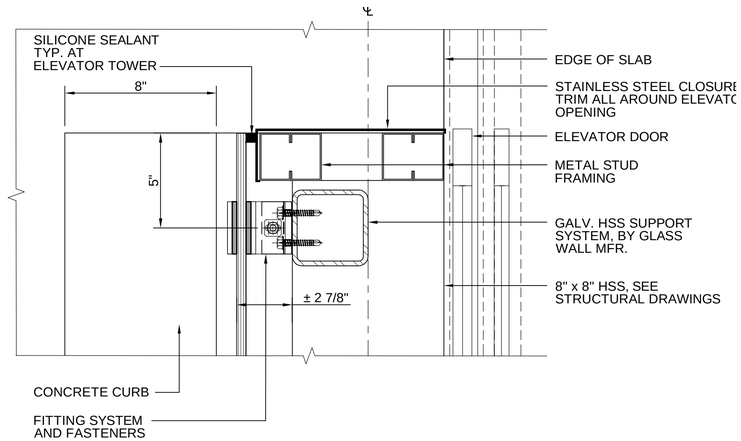
4 A-604 TYPICAL GLASS SUPPORT @ HOISTWAY

SCALE: 3" = 1'-0"



5 A-604 PLAN DETAIL @ ELEVATOR CORNER

SCALE: 3" = 1'-0"



6 A-604 ELEVATOR JAMB DETAIL

SCALE: 3" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	A
DRAWN	YM
CHECKED	NM
APPROVED	NM

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NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION
ENLARGED PLAN DETAILS

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO.
A-604
SHEET 27 OF 76

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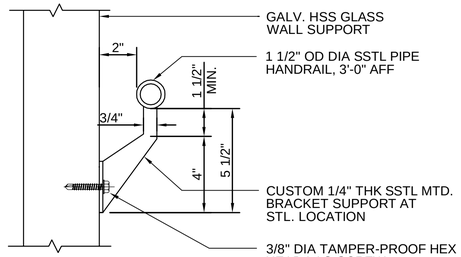
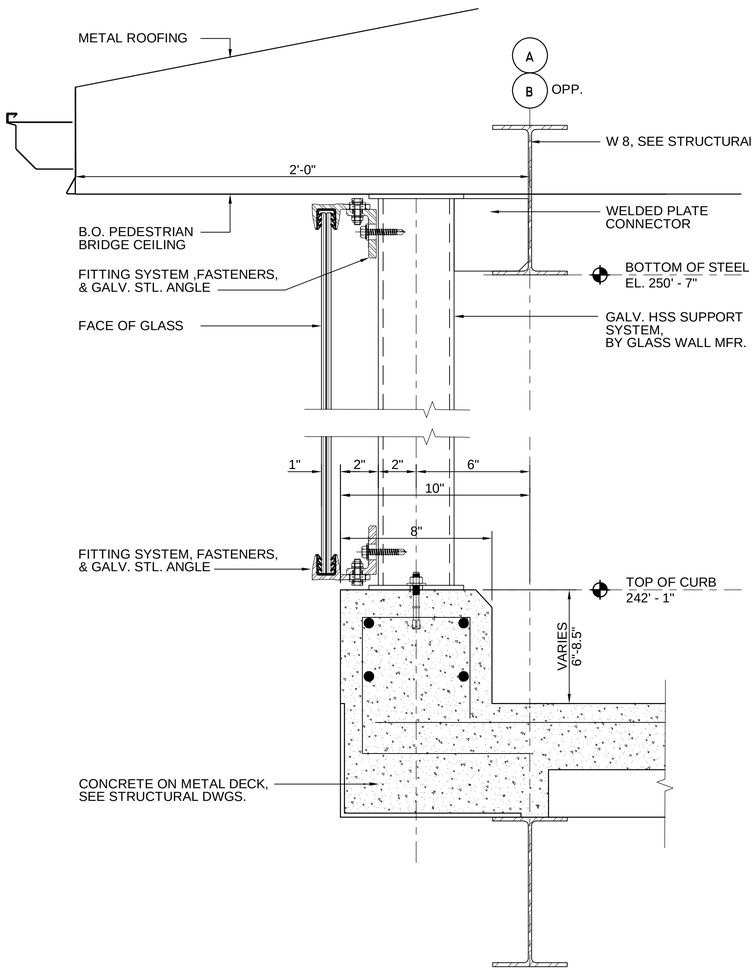


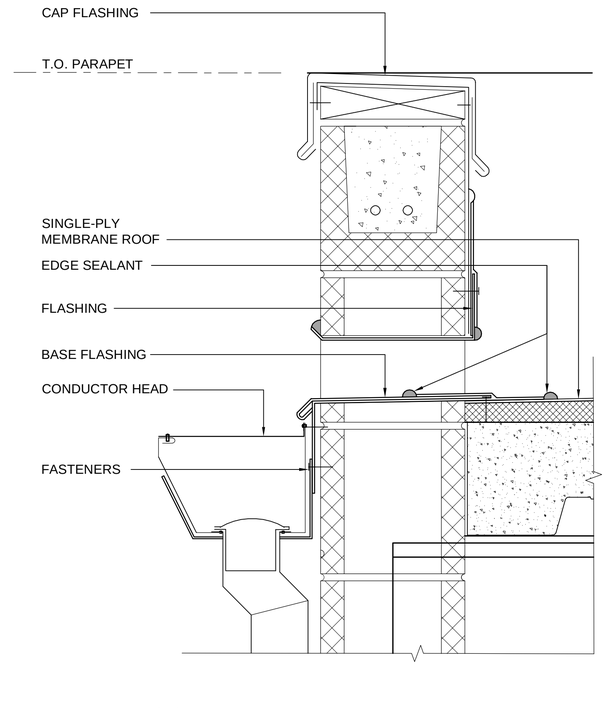
6 A-605 HANDRAIL DETAIL

SCALE: 3" = 1'-0"



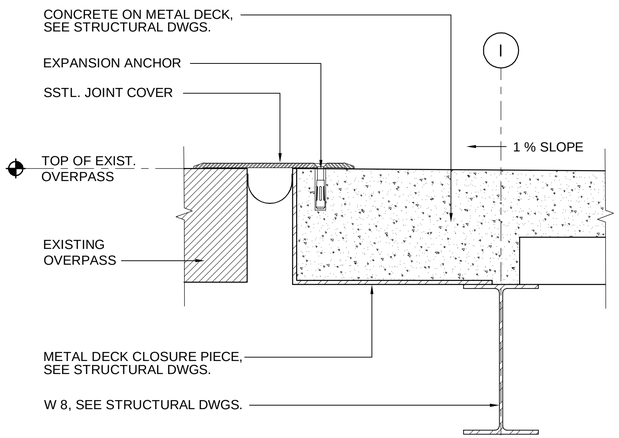
1 A-605 SECTION DETAIL AT PEDESTRIAN BRIDGE

SCALE: 3" = 1'-0"



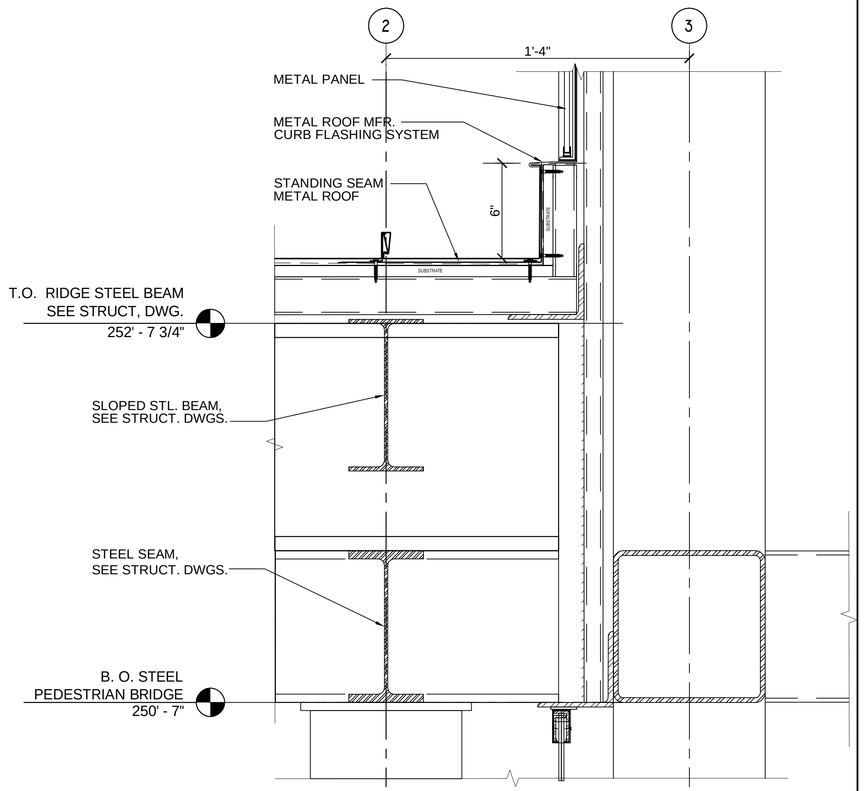
4 A-605 SCUPPER DETAIL

SCALE: 3" = 1'-0"



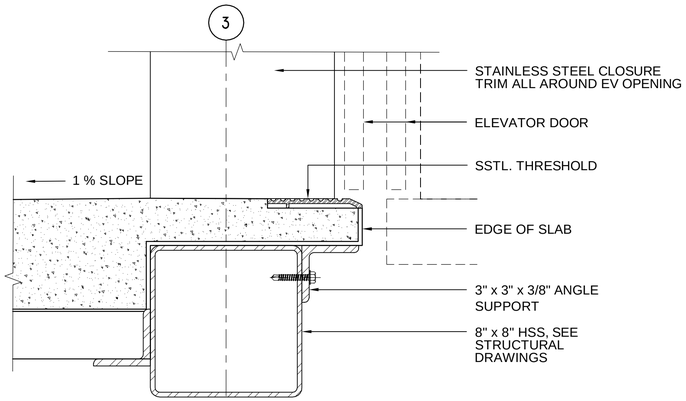
2 A-605 FLOOR EXPANSION JOINT DETAIL

SCALE: 3" = 1'-0"



5 A-605 SECTION DETAIL

SCALE: 3" = 1'-0"



3 A-605 ELEVATOR SILL DETAIL

SCALE: 3" = 1'-0"

100% DESIGN SUBMISSION

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DESIGNED	AP
DRAWN	JB
CHECKED	NM
APPROVED	NM

STATE OF NEW YORK — ALISON B. MONTEAGLE — LICENSED PROFESSIONAL ENGINEER — 080855

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION ENLARGED SECTION DETAILS

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO. **A-605**

SHEET 28 OF 76

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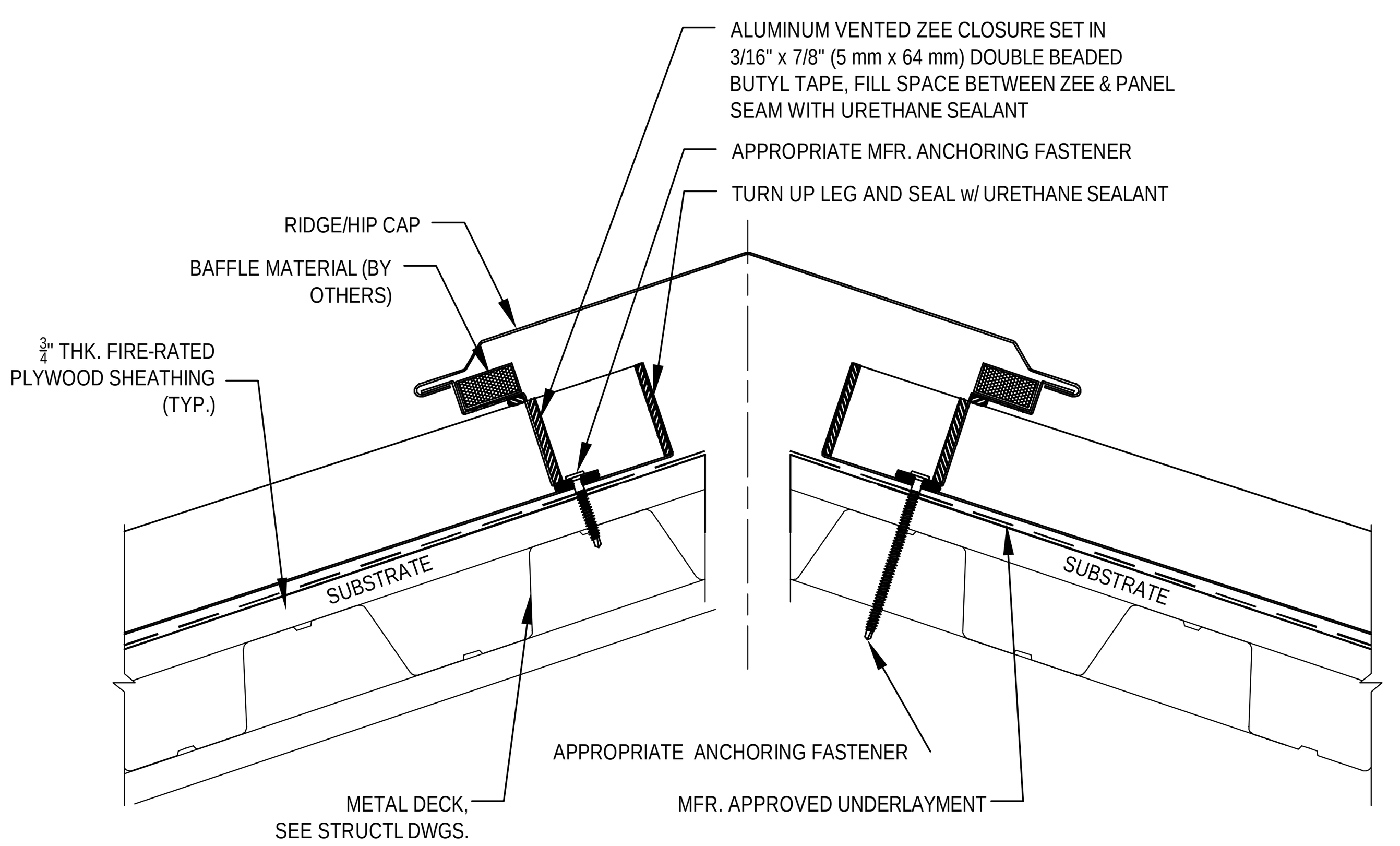
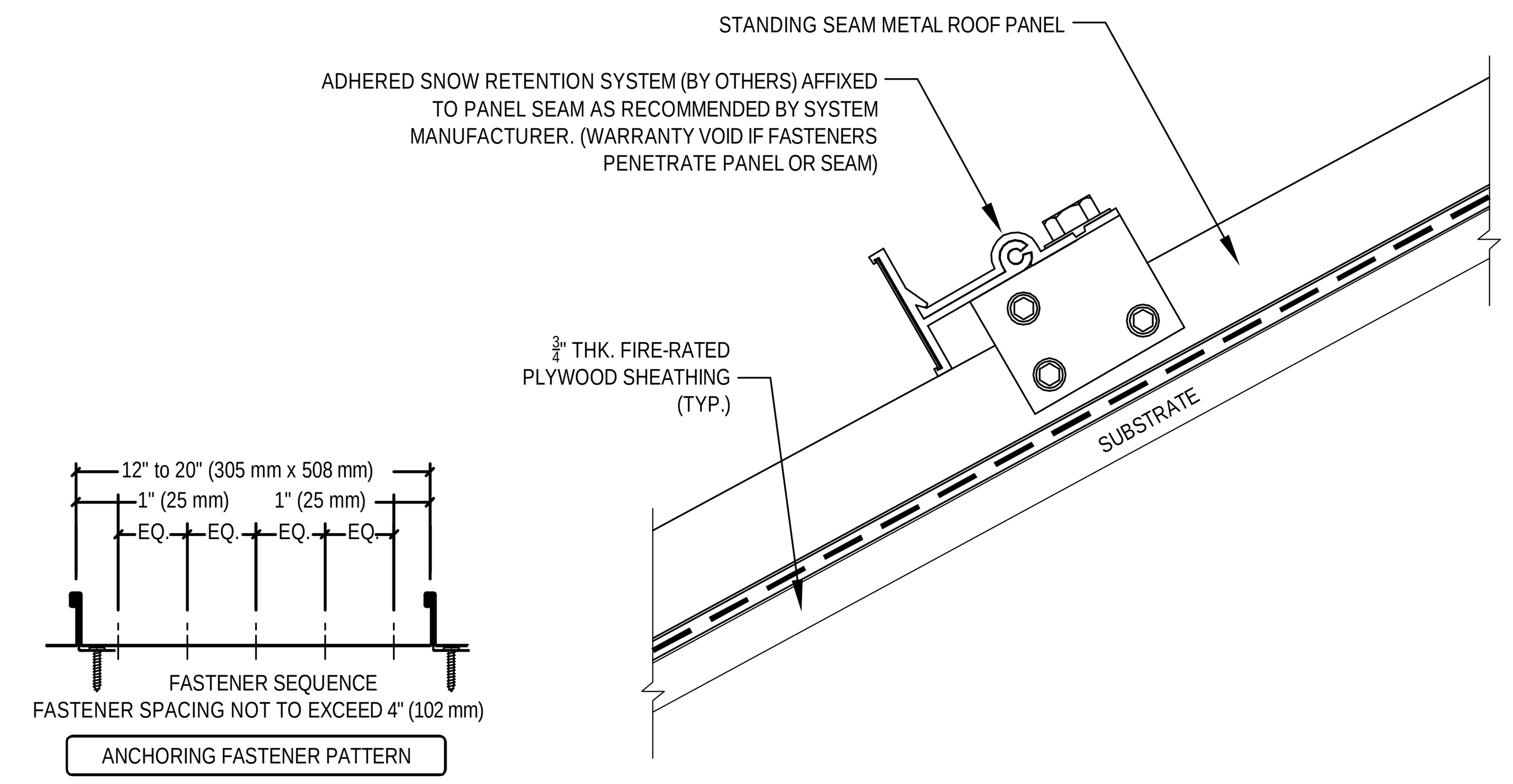


1 TYPICAL VENTED RIDGE DETAIL

Scale: NTS

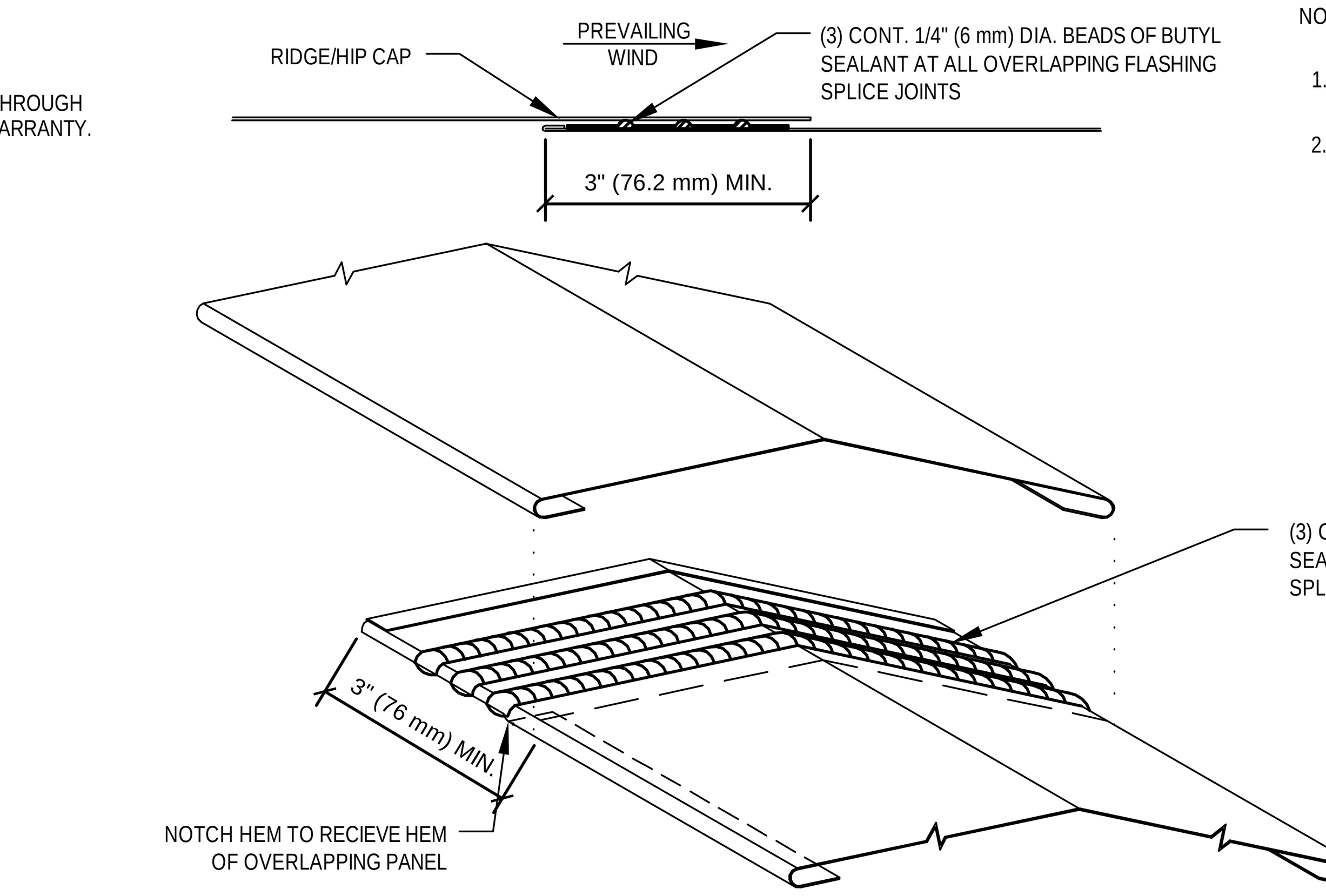


NOTES:

1. SNOWGUARDS MECHANICALLY ATTACHED THROUGH THE METAL ROOF SYSTEM MAY VOID THE WARRANTY.
2. NUMBER & SPACING OF SNOW RETENTION CLIPS TO BE DETERMINED BY SNOW RETENTION SYSTEM MANUFACTURE OR A QUALIFIED DESIGN PROFESSIONAL.

2 TYPICAL SNOW RETENTION SYSTEM

Scale: NTS

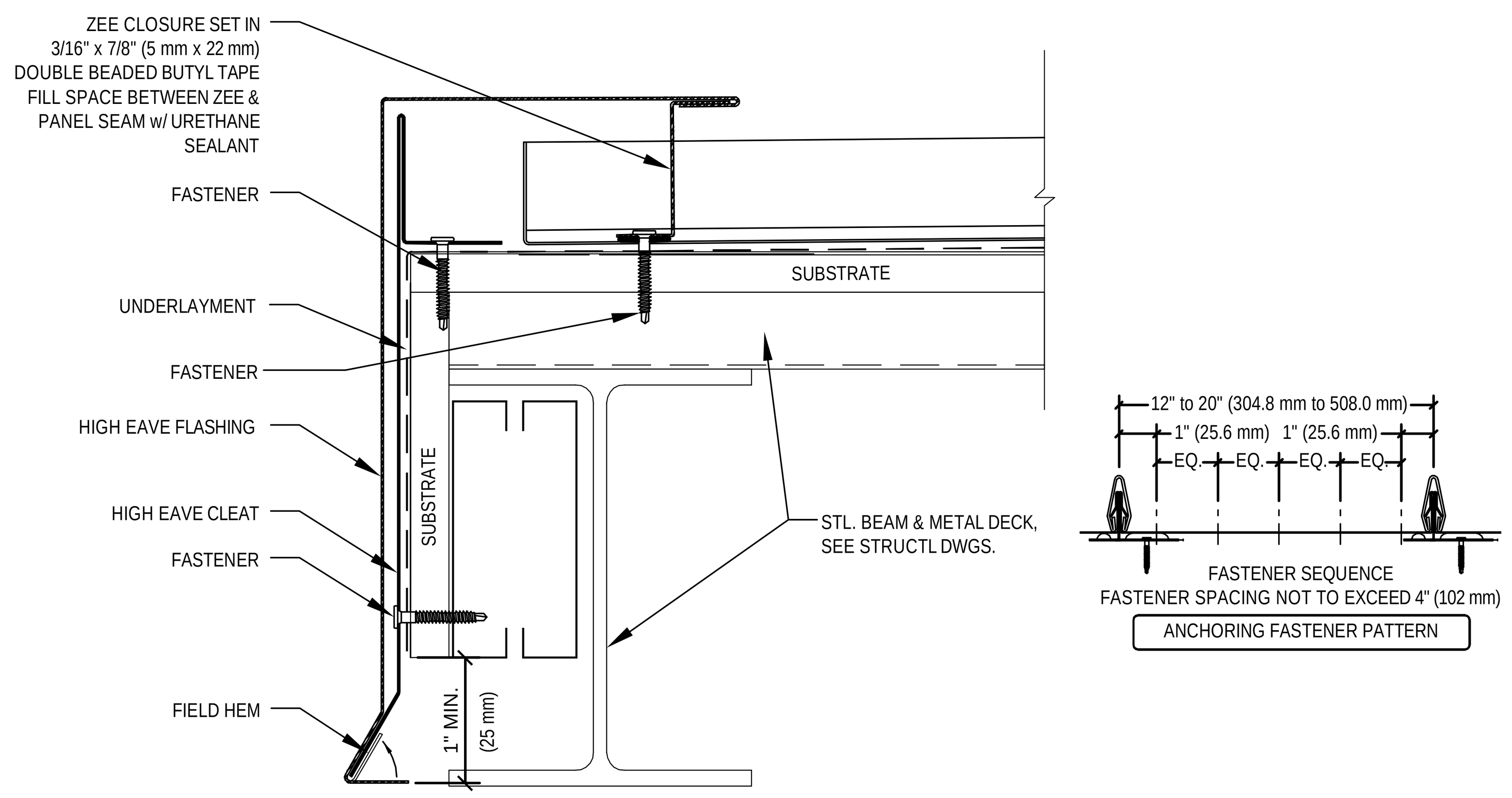


NOTES:

1. RIDGE CAPS MUST BE LAPPED WITH THE PREVAILING WINDS.
2. LAPS MAY BE FASTENED WITH FIRESTONE 12-14x1 1/4 STAINLESS STEEL EPDM GASKETED FASTENERS OR STAINLESS STEEL POP RIVETS

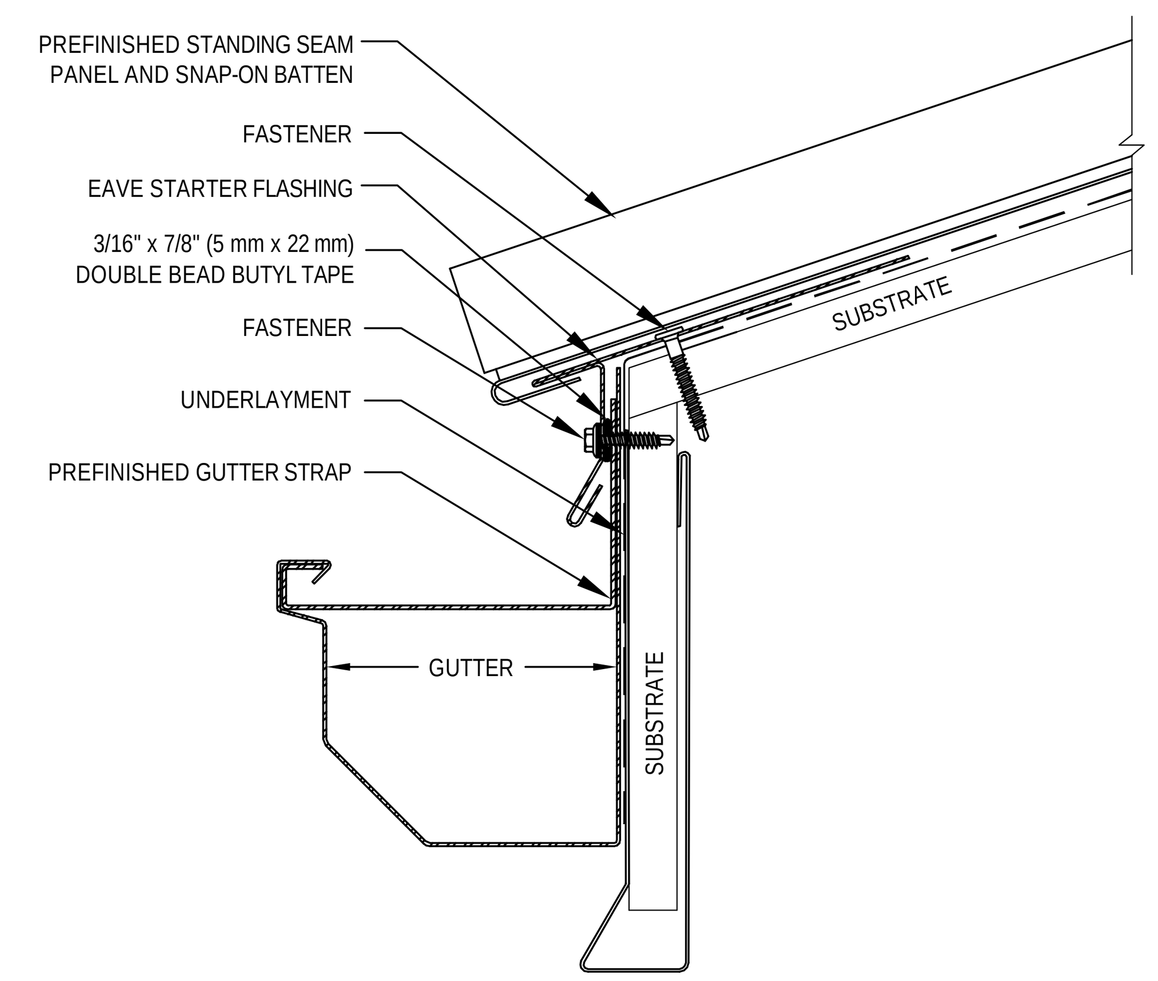
3 RIDGE HIP/CAP SPLICE

Scale: NTS



4 FIXED EAVE WITH CLOSURE

Scale: NTS

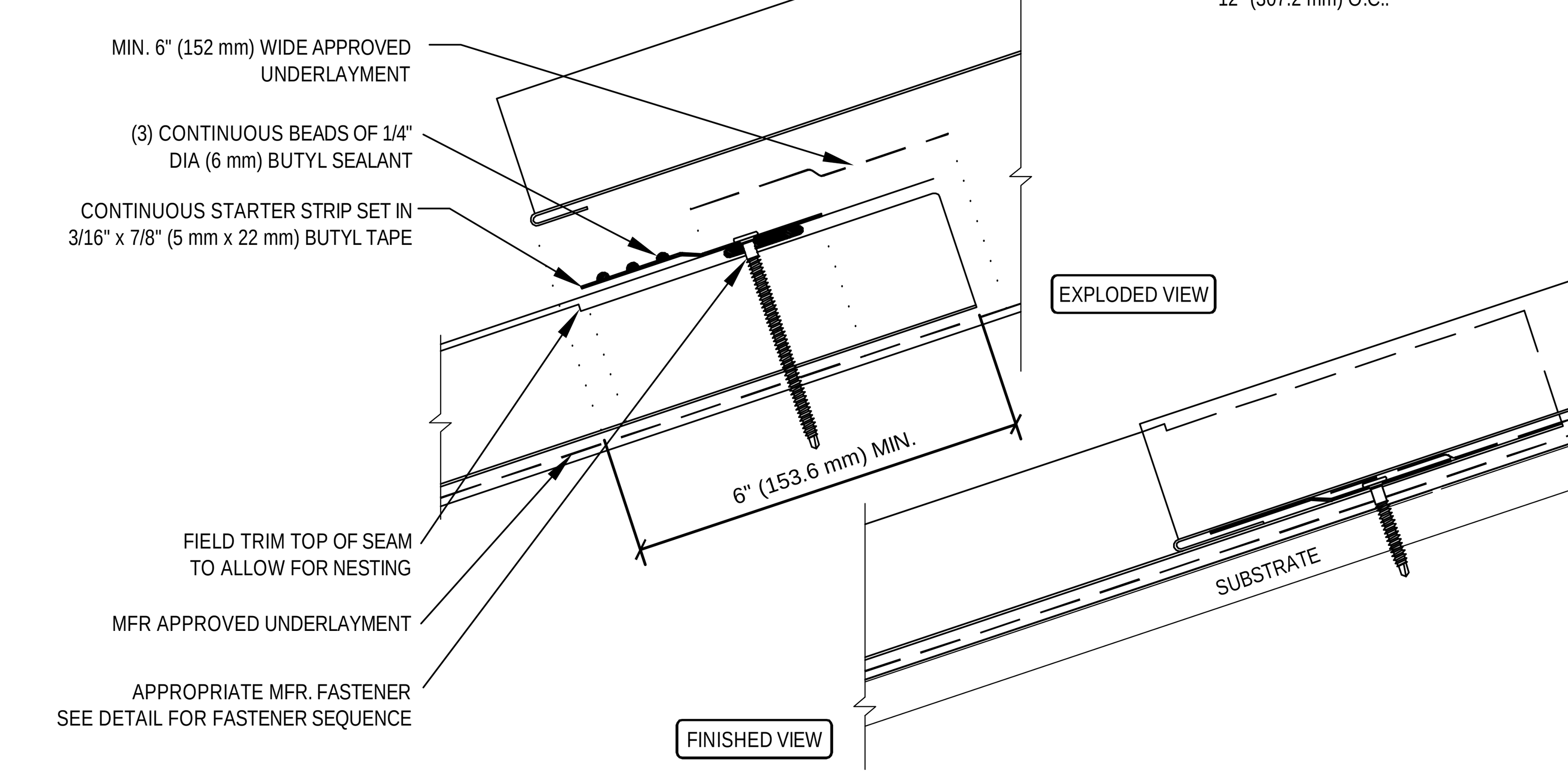


5 TYPICAL SLIDING EAVE AT GUTTER

Scale: NTS

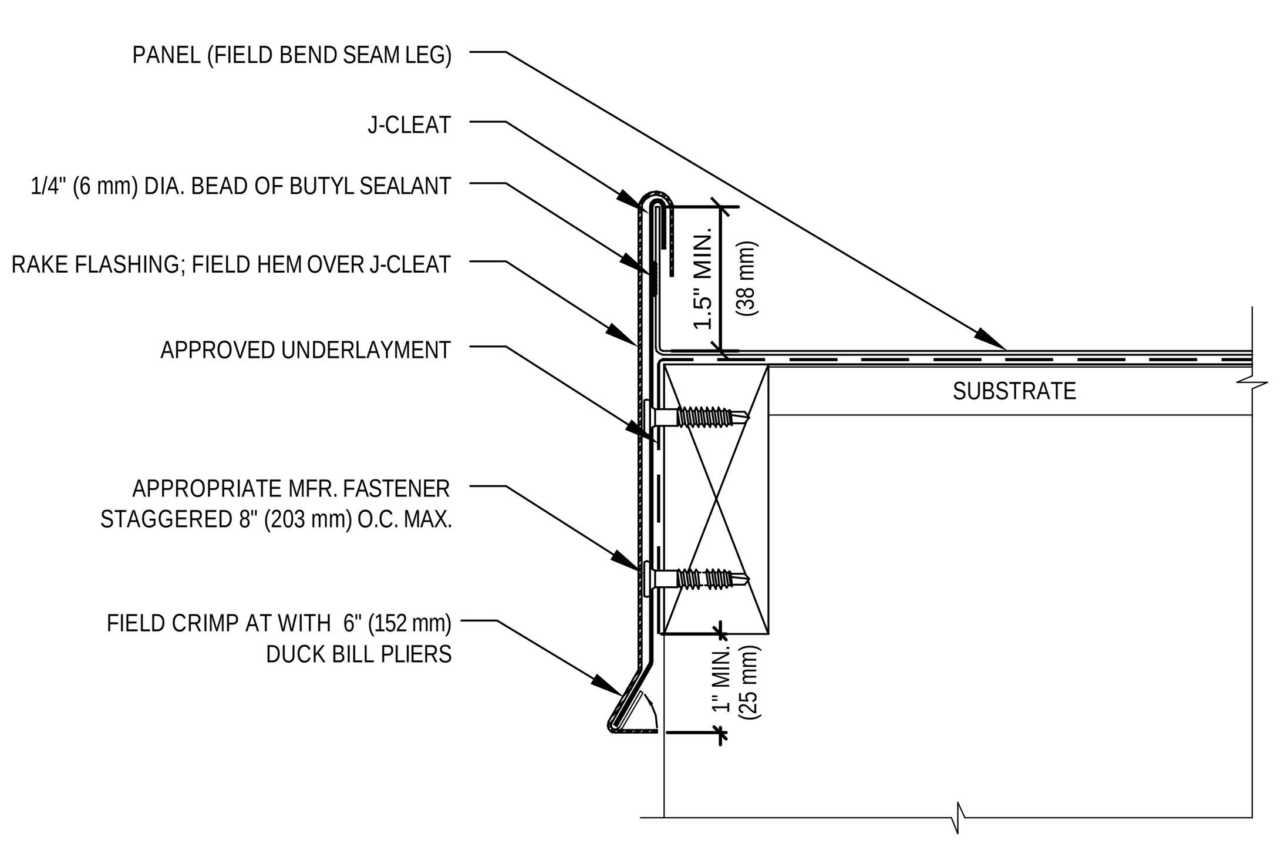
NOTES:

1. STAGGER ADJACENT END LAPS MINIMUM 12" (307.2 mm) O.C..



6 END LAP DETAIL

Scale: NTS



7 RAKE EDGE DETAIL

Scale: NTS

GENERAL ROOFING NOTES:

1. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES
2. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT MINIMUM IN ANY GIVEN DIRECTION.
3. REFER TO THE MFR. TECHNICAL INFO. FOR FASTENER COMPATIBILITY WITH METAL.
4. REFER TO THE MFR. TECHNICAL INFO. FOR HEM LENGTH AND REQUIRED DISTANCE BETWEEN THE PANEL AND CLEAT.
5. THE DESIGN PROFESSIONAL AND INSTALLER MUST ENSURE THAT THE DETAILS ARE ADAPTED AND APPLIED TO MEET APPLICABLE SPECIFICATIONS AND TO PROVIDE ADEQUATE WEATHERTIGHTNESS.
6. APPLICATION DETAILS ARE FOR ILLUSTRATION PURPOSES ONLY AND MAY NOT BE APPROPRIATE FOR ALL BUILDING DESIGNS AND CONDITIONS.

100% DESIGN SUBMISSION

DESIGNED	AP
DRAWN	AP
CHECKED	NM
APPROVED	NM

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD
REVISIONS						REVISIONS					

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Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION

TYPICAL METAL ROOFING DETAILS

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019
DRAWING NO.	
A-606	
SHEET 29 OF 76	

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GENERAL STRUCTURAL NOTES:

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES INCLUDING THE 2015 NEW YORK STATE BUILDING CODE & ADA ACCESSIBILITY GUIDELINES.
2. ALL QUANTITIES SHALL BE FIELD VERIFIED & APPROVED BY THE ENGINEER PRIOR TO THE START OF THE WORK .
3. REFER TO PROJECT SPECIFICATIONS FOR STRUCTURAL REQUIREMENTS FOR THE VARIOUS ELEMENTS.

DESIGN CRITERIA:

1. DESIGN LIVE LOADS

   A. GROUND SNOW LOAD________________________________ 30 PSF
   B. FLOOR LOADS____________________________________ 150 PSF
   C. CANOPY ROOF LIVE LOAD__________________________ 20PSF
   D. WIND EXPOSURE__________________________________ CATEGORY B
   WIND SPEED_____________________________________ 120 MPH
   E. SEISMIC:
   Ss= ___________________________________ 0.236g
   S_1 = ___________________________________ 0.069g
   g = ___________________________________ 32.2ft/S^2
   SITE CLASS CATEGORY = ____________________ B

FOUNDATION:

1. ALL FOUNDATIONS SHALL BEAR ON PROPERLY PREPARED SUBGRADE. ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH LEAN CONCRETE AS DIRECTED BY THE ENGINEER. PRIOR TO PLACEMENT OF FOUNDATION.
2. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
3. THE CONTRACTOR SHALL PROTECT MNR TRACKS DURING EXCAVATION.
4. EXCAVATION NEAR EXISTING FOUNDATIONS SHALL NOT REMOVE THE EXISTING LATERAL OR VERTICAL SUPPORT WITHOUT PROTECTING THE EXISTING FOUNDATION AGAINST SETTLEMENT OR LATERAL TRANSLATION BY PROVIDING UNDERPINNING OR SHORING. UNDERPINNING AND SHORING SHOULD BE PROVIDED AS PER SECTION 1804 OF THE 2014 NEW YORK STATE BUILDING CODE.

STRUCTURAL STEEL:

1. ALL STRUCTURAL BOLTS SHALL BE IN CONFORMANCE WITH ASTM A325, TYPE 1, SC, UNLESS NOTED OTHERWISE. ALL CONNECTIONS SHALL BE DETAILED AS SHOP WELDED AND FIELD BOLTED CONNECTIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. STRUCTURAL BOLTS SHALL HAVE A MINIMUM SIZE OF ¾" DIAMETER. THE END CONNECTION USED SHALL BE BASED ON THE END REACTION INDICATED FOR THE BEAM SIZE AND THE SPAN PROVIDED IN THE AISC MANUAL, PART 2 "UNIFORM LOAD CONSTRAINTS FOR BEAMS LATERALLY SUPPORTED", OR THE LEAST NUMBER OF BOLTS, WITH A MINIMUM OF 2 BOLTS IN THE STANDARD CONNECTION, WHICHEVER PROVIDES THE LARGEST CONNECTION.
2. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL WIDE FLANGE BEAM TO BEAM CONNECTIONS SHALL BE SHOP ASSEMBLED, USING DOUBLE CLIP ANGLES, TO FORM A LARGER UNIT FOR SHIPPING AND ERECTION. FIELD WELDING SHALL BE MINIMIZE EXCEPT AS SHOWN IN THE CONTRACT DRAWINGS.
3. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATIONS, AREMA SPECIFICATIONS AND THE CONTRACT DOCUMENTS. THE FABRICATOR SHALL BE AN AISC CERTIFIED FABRICATOR (SIMPLE BUILDINGS).
4. SIZES AND LOCATIONS OF PIPE SLEEVES, CONDUITS AND OTHER OPENINGS IN SLABS OR FLOORS NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE ESTABLISHED BY FIELD VERIFICATION OR FROM THE DESIGN DRAWINGS OF THE OTHER DISCIPLINES.
5. GROUT UNDER BASE PLATE SHALL BE 1" MAXIMUM, UNLESS NOTED OTHERWISE.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR ERECTION, IF REQUIRED.
7. DIMENSIONS AND LOCATIONS OF STRUCTURAL MEMBERS AND EMBEDDED ITEMS REQUIRED FOR PENETRATIONS AND SUPPORT SHALL BE COORDINATED AND VERIFIED WITH EQUIPMENT MANUFACTURERS AND APPROVED SHOP DRAWINGS PRIOR TO ERECTION.
8. STRUCTURAL STEEL SURFACES, INCLUDING BOLTS AND WELDS, SHALL BE GIVEN ONE COAT OF PRIMER IN ACCORDANCE WITH THE PROCEDURES AS SPECIFIED IN THE AISC MANUAL AND CONTRACT DOCUMENTS. PRIMER TO BE APPLIED ONLY AFTER CONNECTION IS COMPLETED, UNLESS NOTED OTHERWISE.
9. IF REAMING IS REQUIRED TO DRESS UP THE BOLTS AND IF AFTER REAMING THE HOLES EXCEED THE TOLERANCES REQUIRED BY THE AISC MANUAL, THE DESIGN-CONTRACTOR SHALL PREPARE THE HOLE FOR THE NEXT LARGER DIAMETER BOLT AND INSTALL A LARGER DIAMETER BOLT AT THAT LOCATION, AT NO ADDITIONAL COST TO METRO-NORTH.
10. FIELD CUTTING IS ALLOWED WITH A WELDING TORCH, AS APPROVED BY THE DESIGN ENGINEER.
11. BOLTS SHALL NOT BE REUSED. BOLTS AND UNPAINTED STEEL IN A JOINT SHALL BE PAINTED WITH PRIMER IMMEDIATELY AFTER A CONNECTION IS ACCEPTED.
12. WHERE FILLET WELD SIZES ARE NOT SHOWN ON DRAWING, MINIMUM SIZE OF FILLET WELD SHALL BE PROVIDED AS PER AISC SPECIFICATIONS.
13. ALL ACCESSORIES SUCH AS SLAB BOLSTERS, CHAIRS AND SPACERS IN CONTACT WITH EXPOSED SURFACES SHALL HAVE PLASTIC COATED TIPS.

CONCRETE:

1. ALL CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF f'_c=4,000 PSI, U.O.N.
2. ALL STEEL REINFORCEMENT BARS SHALL BE DEFORMED, ASTM A615, GRADE 60, GALVANIZED IN ACCORDANCE WITH ASTM A767, EXCEPT WHEN PERFORMING REPAIRS TO EXISTING CONSTRUCTION WHERE EPOXY REINFORCING WAS USED OR UNLESS NOTED OTHERWISE.
3. DRAIN PIPES, PIPE SLEEVES, ELECTRICAL CONDUITS AND EMBEDDED PARTS SHALL BE IN POSITION BEFORE CONCRETE IS PLACED. ANCHOR BOLTS INSTALLED AFTER CONCRETE PLACEMENT. SEE NOTE 9.
4. ALL SPLICES IN REINFORCEMENTS SHALL COMPLY WITH THE REQUIREMENTS OF ACI-318-14, BUT IN NO CASE SHALL LAP BE LESS THAN 12".
5. SHIFT OR BEND BARS TO CLEAR ANCHOR BOLTS, DRAINS, PIPE SLEEVES AND EMBEDDED PARTS.
6. GROUT SHALL BE 5000 PSI, NON-SHRINK TYPE.
7. EXPANSION AND CONTRACTION JOINTS IN CONCRETE STRUCTURES OTHER THAN SHOWN ON THE PLANS WILL NOT BE PERMITTED UNLESS APPROVED BY THE DESIGN ENGINEER.
8. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾", UNLESS NOTED OTHERWISE.
9. FOR DETAILS OF ALL EMBEDDED ITEMS AND OPENINGS, SEE CIVIL AND ELECTRICAL DRAWINGS.
10. ANCHOR BOLTS SHALL BE LOCATED AND SET PLUMB TO WITHIN 1/16" AND HELD RIGIDLY IN PLACE BY MEANS OF A TEMPLATE.
11. FOR CONCRETE FINISH, SEE TECHNICAL PROVISIONS.
12. ADDITIONAL REINFORCEMENT SHALL BE PROVIDED ALL AROUND OPENINGS AT LEAST 12" IN ANY DIRECTION. THE MINIMUM AREA OF STEEL EACH FACE SHALL BE EQUAL TO THE AREA OF THE CUT BARS. EXISTING BARS TO BE CUT SHALL BE HOOKED AT OPENING.

MASONRY:

1. MASONRY WORK SHALL COMPLY WITH ACI 530 AND ACI 530.1 AS MODIFIED BY THE BUILDING CODE.
2. WELDING OF REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4 AS MODIFIED BY THE BUILDING CODE.
3. NEW HOLLOW CONCRETE MASONRY UNITS SHALL BE NORMAL WEIGHT UNITS CONFORMING TO ASTM C90.
4. MINIMUM COMPRESSIVE STRENGTH OF NEW BACKUP MASONRY ASSEMBLAGES SHALL BE f'm=2500 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C1314.
5. BED JOINTS SHALL BE FULLY MORTARED THROUGH THE FULL THICKNESS OF MASONRY SO THAT THE UNIT WEB IS FULLY MORTARED.
6. HEAD JOINTS SHALL BE MORTARED A MINIMUM THICKNESS EQUAL TO UNIT FACE SHELL THICKNESS.
7. GROUT SHALL BE FINE TYPE CONFORMING TO ASTM C476 WITH MINIMUM COMPRESSIVE STRENGTH OF f'_c=3,000 PSI. GROUT IN NEW WALLS SHALL BE INSTALLED IN 5'-0" MAX LIFTS.
8. REBAR FOR MASONRY SHALL BE ASTM A615 (A706 WHERE WELDING OF REBAR IS REQUIRED).
9. SEE ARCHITECTURAL DRAWINGS FOR CAVITY WALL DETAILS INCLUDING WATERPROOFING, FLASHING, WEEPS, INSULATION, ETC.
10. SEE ARCHITECTURAL DRAWINGS FOR BRICK MASONRY VENEER INFORMATION AND DETAILS,
11. PROVIDE NEW MASONRY TIES. SEE ARCHITECTURAL DRAWINGS FOR MASONRY TIE SYSTEM AND SPACING.
12. COLLAR JOINTS SHALL NOT BE USED.
13. CONSTRUCT ⅜" THICK BED AND HEAD JOINTS FILLED SOLID WITH MORTAR. TOLL JOINTS WITH ROUND JOINTER.
14. CLAY/SHALE MASONRY UNITS SHALL BE WETTED PRIOR TO PLACING NEW MASONRY.
15. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI HOT AND COLD WEATHER PROCEDURES.
16. NEW MASONRY WALLS SHALL CONTAIN CONTINUOUS S.S. TRUSS TYPE HORIZONTAL REINFORCEMENT WITH MIN (2) #9 WIRES AT 16" O.C., U.O.N.
17. PROVIDE CONTROL JOINTS AT 20'-0" O.C. (MAX) IN NEW CMU WALLS. SEE ARCHITECTURAL DRAWINGS FOR BRICK CONTROL JOINTS.
18. CORES WITH VERTICAL REINFORCEMENT SHALL BE GROUTED SOLID.
19. NEW MASONRY SHALL BE INSTALLED IN RUNNING BOND.
20. MORTAR FOR NEW MASONRY SHALL BE TYPE S UNLESS IT IS LOCATED BELOW FINAL FINISHED GRADE. IN THIS CASE, MORTAR SHALL BE TYPE M.
21. PROVIDE CONTINUOUS GROUT-FILLED BOND BEAMS AS SHOWN ON PLANS AND DETAILS. BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONTROL JOINTS. PROVIDE ADDITIONAL LAPPED BARS AT WALL CORNERS.
22. PROVIDE ADDITIONAL VERTICAL BARS AS REQUIRED TO ENSURE REINFORCEMENT AT WALL ENDS, INTERSECTIONS AND CORNERS, CMU CONTROL JOINTS, AND AT LINTEL/BEAM BEARING LOCATIONS.
23. PROVIDE SOLID GROUTED CELLS AT STEEL LINTEL BEARING LOCATIONS.
24. ALL REINFORCEMENT SHALL BE HELD IN PLACE BY BAR POSITIONERS PRIOR TO PLACING GROUT.
25. WHERE NOT SPECIFIED IN THE DRAWING, VERTICAL BARS SHALL BE LAPPED 48 BAR DIAMETERS OR SPLICED BY MECHANICAL COUPLERS OR WELDING TO DEVELOP 125% OF THE BAR CAPACITY.

100% DESIGN SUBMISSION

DESIGNED	AB
DRAWN	YM
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APPROVED	TSE

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NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS — REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE: METRO-NORTH STATION IMPROVEMENTS
PURDYS STATION
STRUCTURAL NOTES - 1

CONTRACT NO. 1000106733
SCALE: AS NOTED — DATE: 11-20-2019
DRAWING NO. S-101
SHEET 30 OF 76

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D – METAL DECK

1. METAL DECK SHALL BE DESIGNED IN ACCORDANCE WITH THE ANSI/ STEEL DECK INSTITUTE IN CONFORMANCE WITH THE 2015–IBC.
2. MATERIAL FOR METAL DECK SHALL CONFORM TO ASTM A653 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI.
3. FLOOR DECK DESIGN
   a) AS A FORM (BEFORE CONCRETE HAS ATTAINED DESIGN STRENGTH):
      1) DECK CAN SAFELY SUPPORT THE FOLLOWING LOADING CONDITIONS WITHOUT EXCEEDING MAXIMUM PERMISSIBLE FIBER STRESS FOR THE SPANS SHOWN WITHOUT SHORING:
         (a) DEAD LOAD OF WET CONCRETE, WEIGHT OF DECK, AND 20–PSF CONSTRUCTION LIVE LOAD.
         (b) DEAD LOAD OF WET CONCRETE, WEIGHT OF DECK, AND A CONCENTRATED LOAD OF 150 LBS ON A 1'–0" WIDE SECTION OF DECK.
      2) DEFLECTION OF FORM DUE TO DEAD LOAD OF CONCRETE AND DECK DOES NOT EXCEED L/180, BUT NOT MORE THAN 3/4".
      3) PROVIDE SHORING OF METAL DECK WHERE IT IS INDICATED ON THE PLAN AND WHERE IT IS REQUIRED BY THE METAL DECK MANUFACTURER AS INDICATED ON THE APPROVED SHOP DRAWINGS.
   b) AS A COMPOSITE SLAB (AFTER CONCRETE HAS ATTAINED DESIGN
      1) GAGE OF METAL DECK AS SHOWN ON DRAWINGS IS SUCH THAT THE COMPOSITE SLAB IS CAPABLE OF CARRYING THE TOTAL LOADS ON THE SPANS SHOWN WITHOUT EXCEEDING THE MAXIMUM PERMISSIBLE FIBER STRESS.
      2) DEFLECTION OF COMPOSITE DECK DOES NOT EXCEED 1/360 OF DECK SPAN UNDER THE SUPERIMPOSED LIVE LOAD.
4. METAL DECK UNITS SHALL BE GALVANIZED COMPOSITE DECK AND SHALL BE FORMED WITH INTEGRAL LOCKING LUGS TO PROVIDE A MECHANICAL BOND BETWEEN CONCRETE AND DECK.
5. METAL DECK SHALL BE PART OF A UL LISTED FIRE–RATED

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DRAWN YM												MTA Metro–North Railroad 347 Madison Avenue New York, NY 10017	CONTRACT NO. 1000106733
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APPROVED TSE		REVISIONS						REVISIONS					

SCALE	AS NOTED
DATE	11-20-2019
DRAWING NO.	S-102
SHEET	31 OF 76

PURDY'S STATION
STRUCTURAL NOTES - 2

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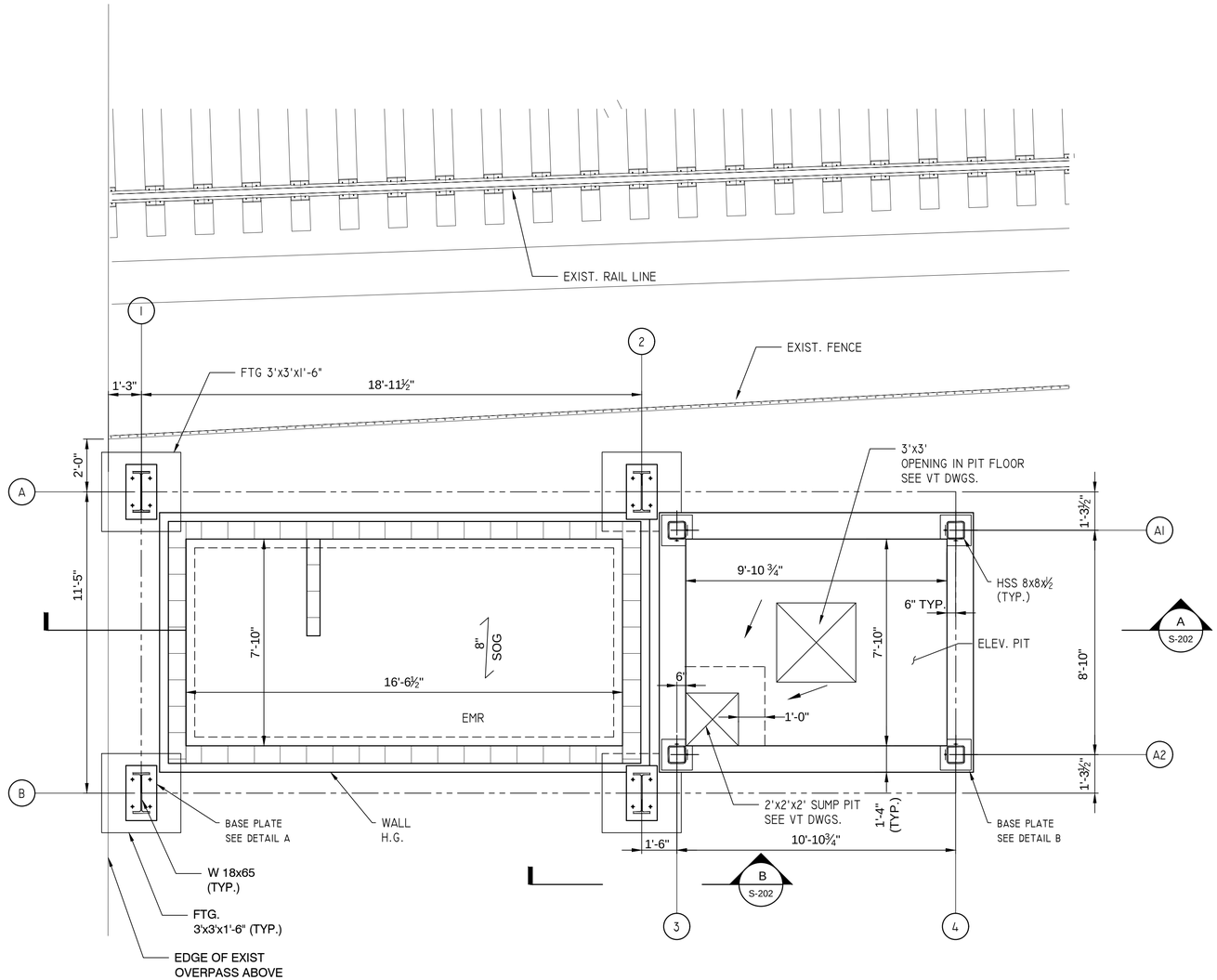
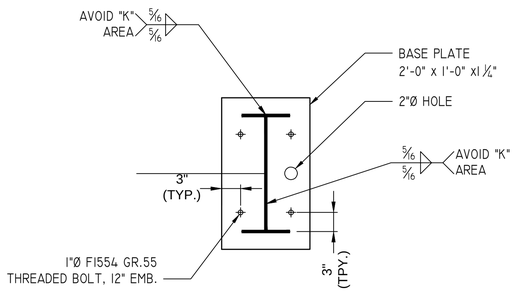


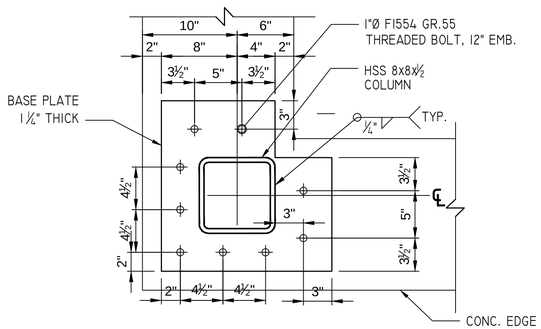
FOUNDATION PLAN

SCALE: 3/8" = 1'-0"



A COLUMN BASE PLATE DETAIL

SCALE: 1" : 1'-0"



B BASE PLATE DETAIL

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

NOTES:

1. FOR STRUCTURAL NOTES SEE DWG S-101
2. FOR GENERAL NOTES SEE DWG G-102, G-103.
3. FOR WINDSCREEN DETAIL SEE DWG S-201 AND ARCH. DWGS.
4. FOR BOLLARDS DETAILS SEE ARCH. DWGS.

100% DESIGN SUBMISSION

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DRAWN	YM
CHECKED	NM
APPROVED	TSE

NO.	DATE		DRWN	CHKD	APPVD
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NO.	DATE		DRWN	CHKD	APPVD

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
FOUNDATION
PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. S-111
SHEET 32 OF 76

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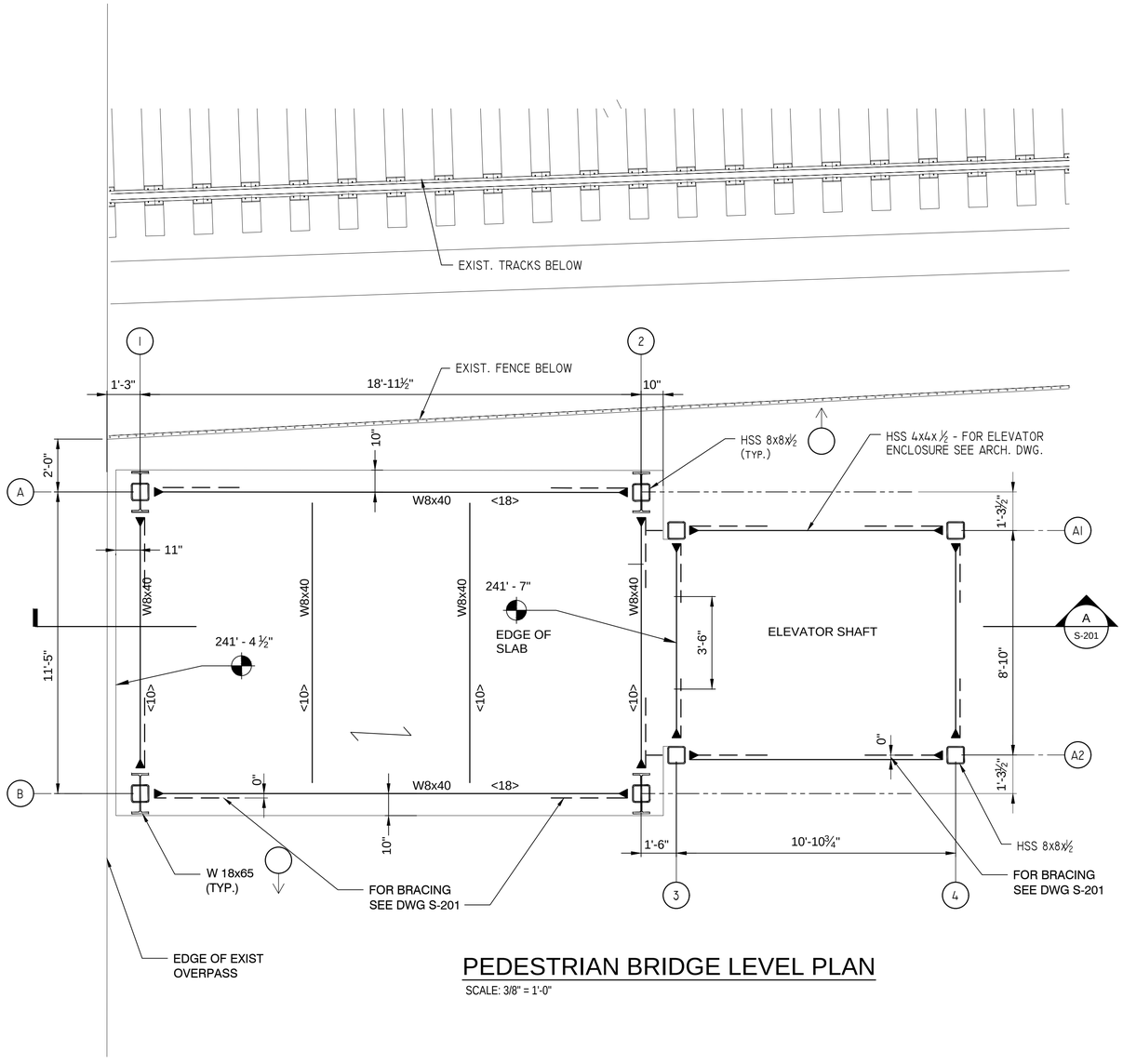
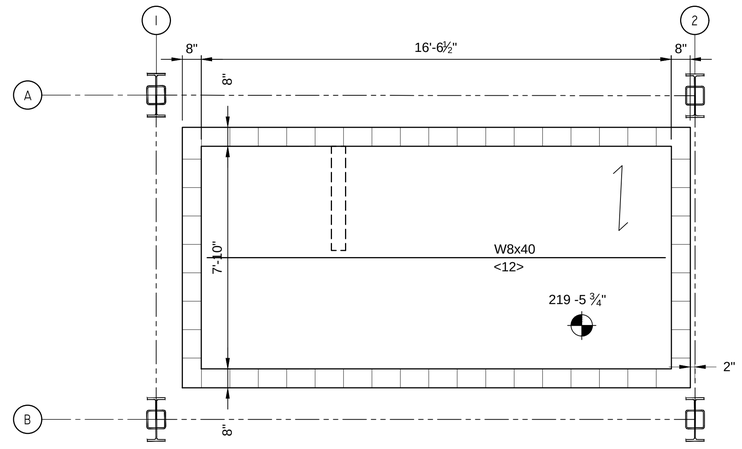


PEDESTRIAN BRIDGE LEVEL PLAN

SCALE: 3/8" = 1'-0"



EMR ROOF LEVEL PLAN

SCALE: 3/8" = 1'-0"

NOTES:

1. FLOOR SLAB SHALL BE 3" NORMAL WEIGHT CONCRETE ON TOP OF 3"–18 GAGE GALVANIZED COMPOSITE METAL DECK TYPE 3VLI–18 BY VULCRAFT APPROVED EQUAL, (TOTAL SLAB THICKNESS+6").
2. TOP OF STEEL TO BE 6" BELOW TOP OF SLAB.
3. ⟍ INDICATES DIRECTION OF DECK.
4. <--> INDICATES NUMBERS OF ¾"ø×4 ½" HEADED SHEAR CONNECTORS.
5. FOR STRUCTURAL NOTES SEE DWGS S–101, S–102
6. FOR GENERAL NOTES SEE DWGS G–102, G–103.

100% DESIGN SUBMISSION

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NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
		REVISIONS						REVISIONS					

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DRAWN YM
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APPROVED TSE

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MTA Metro–North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PEDESTRIAN BRIDGE LEVEL PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. S-121
SHEET 33 OF 76

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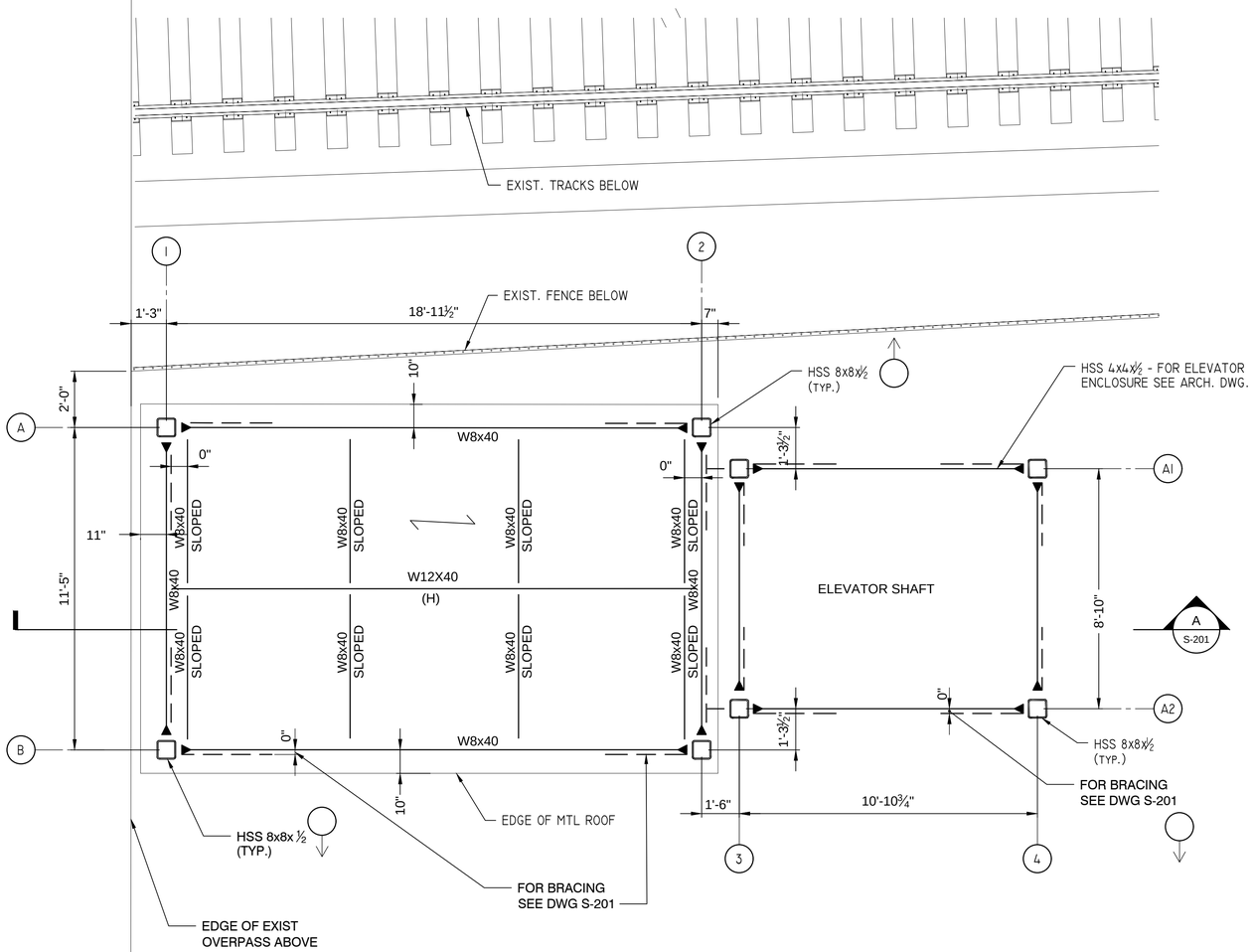

PEDESTRIAN BRIDGE ROOF LEVEL PLAN

SCALE: 3/8" = 1'-0"

NOTES:

1. FOR STRUCTURAL NOTES SEE DWGS S-101, S-102
2. FOR GENERAL NOTES SEE DWGS G-102, G-103.
3. ⟍ INDICATES DIRECTION OF ROOF DECK TYPE 1.5 F-18 GAGE GALVANIZED BY VULCRAFT OR APPROVED EQUAL.

100% DESIGN SUBMISSION

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		NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD
		REVISIONS						REVISIONS					

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MTA Metro-North Railroad
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New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
PEDESTRIAN BRIDGE ROOF LEVEL PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED | DATE 11-20-2019
DRAWING NO. S-122
SHEET 34 OF 76

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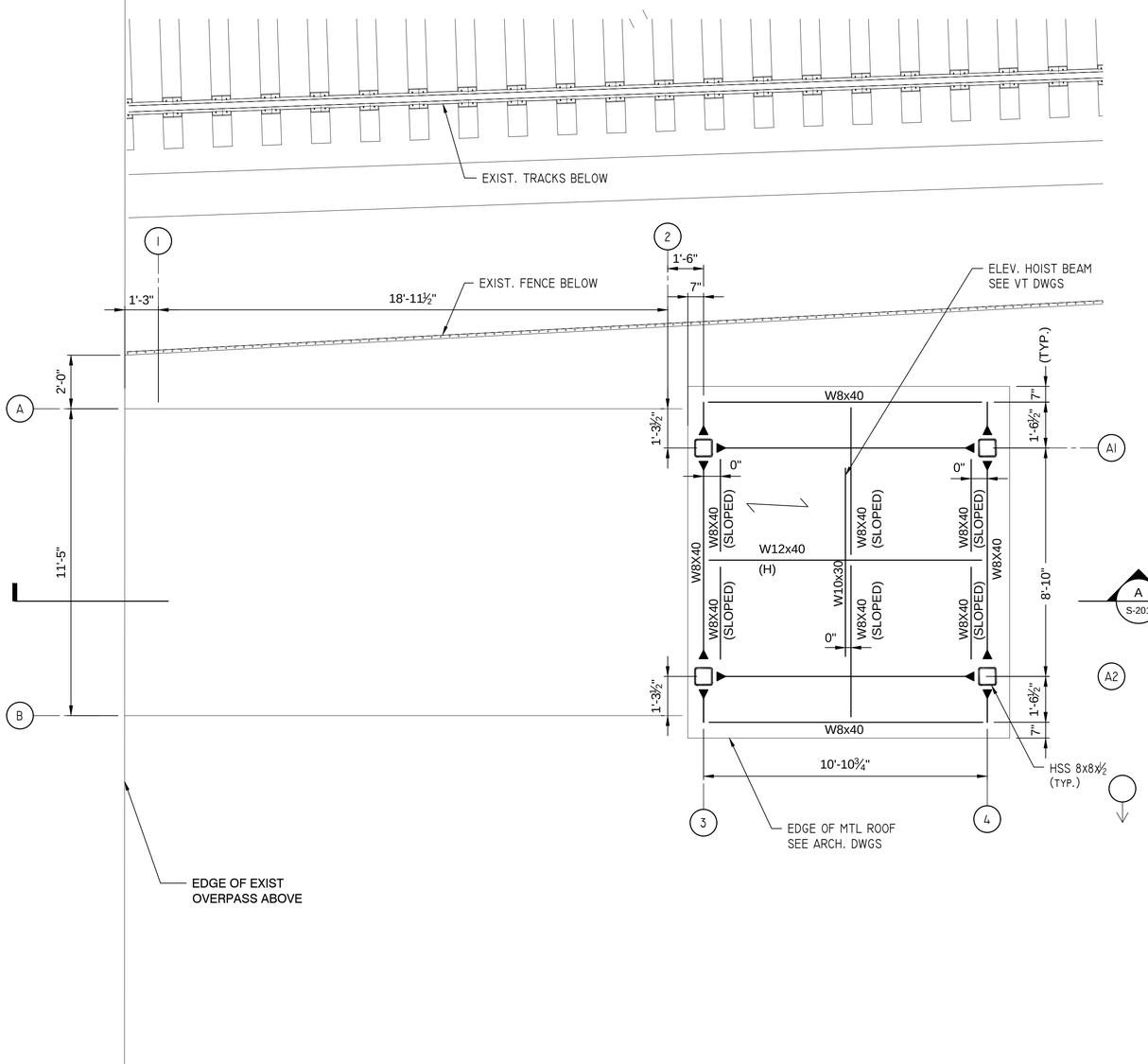

ELEVATOR ROOF LEVEL PLAN

SCALE: 3/8" = 1'-0"

NOTES:

1. FOR STRUCTURAL NOTES SEE DWGS S–101, S–102
2. FOR GENERAL NOTES SEE DWGS G–102, G–103.
3. ⟍ INDICATES DIRECTION OF ROOF DECK TYPE 1.5 F–18 GAGE GALVANIZED BY VULCRAFT OR APPROVED EQUAL.

100% DESIGN SUBMISSION

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New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
ELEVATOR ROOF LEVEL
PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. S-123
SHEET 35 OF 76

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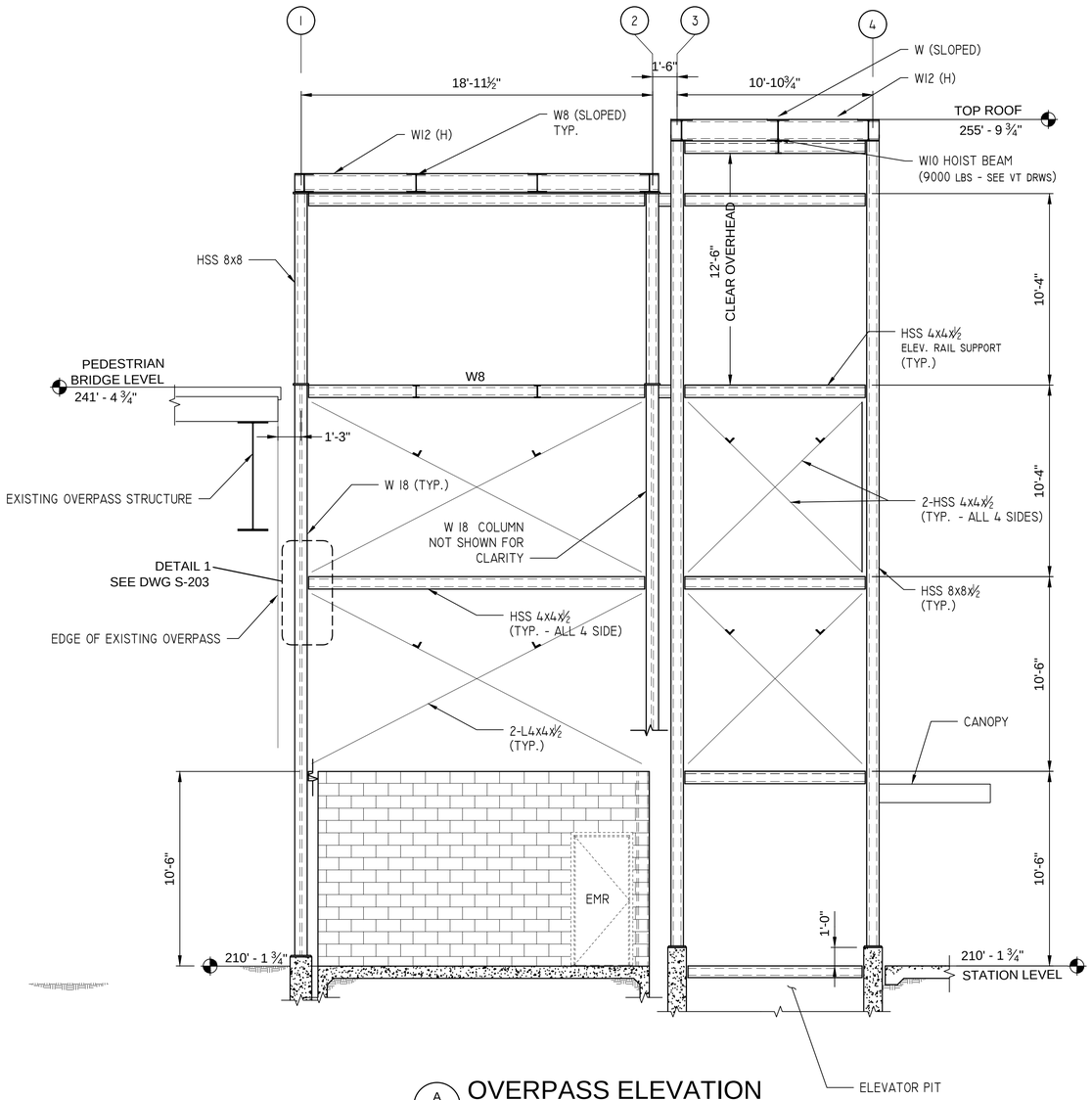
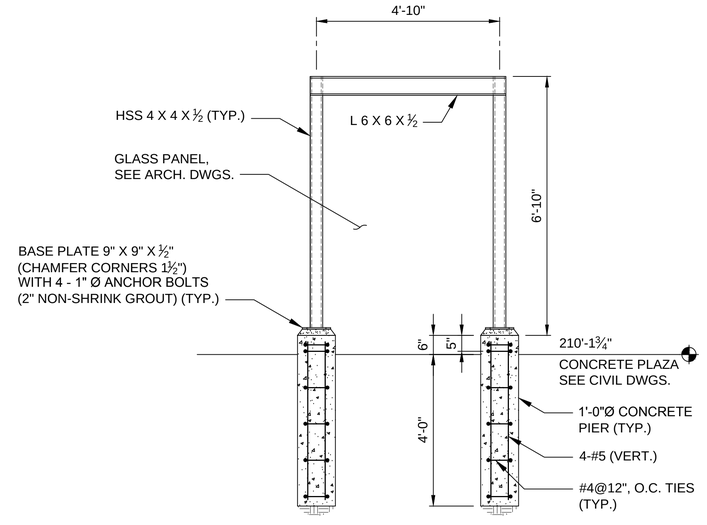


A S-111,S-121 OVERPASS ELEVATION

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



- ELEVATOR ENTRANCE WINDSCREEN

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

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NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD
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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
ELEVATIONS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. S-201
SHEET 36 OF 76

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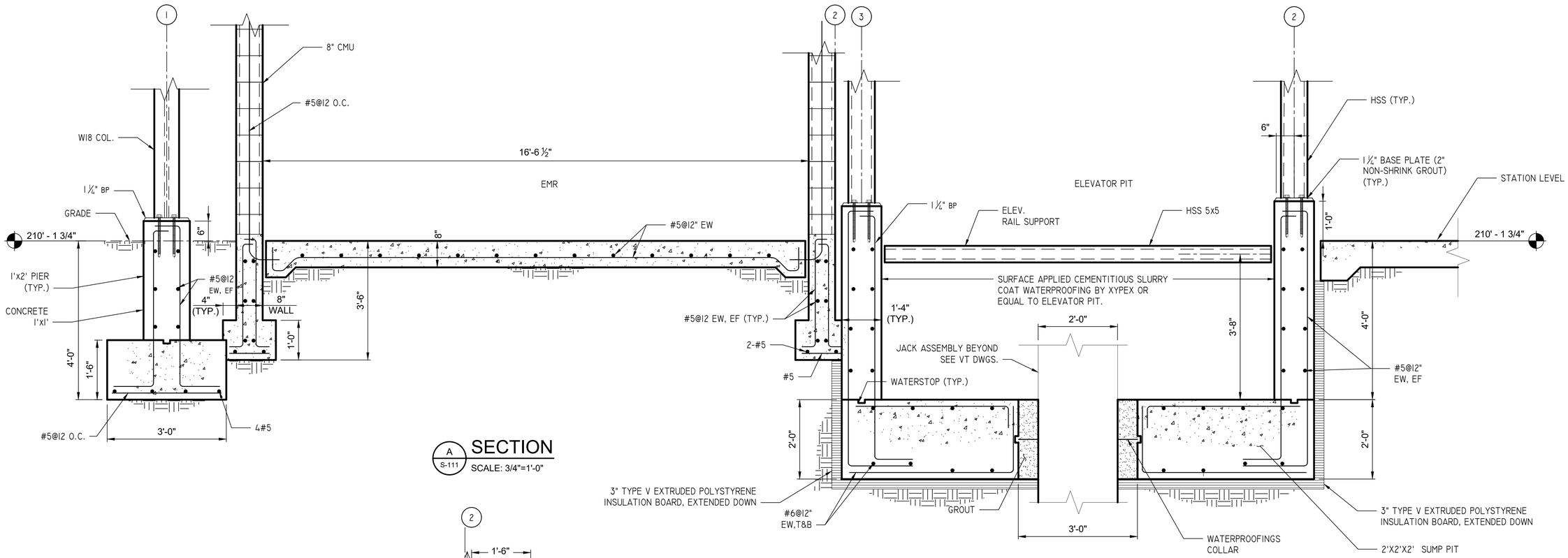
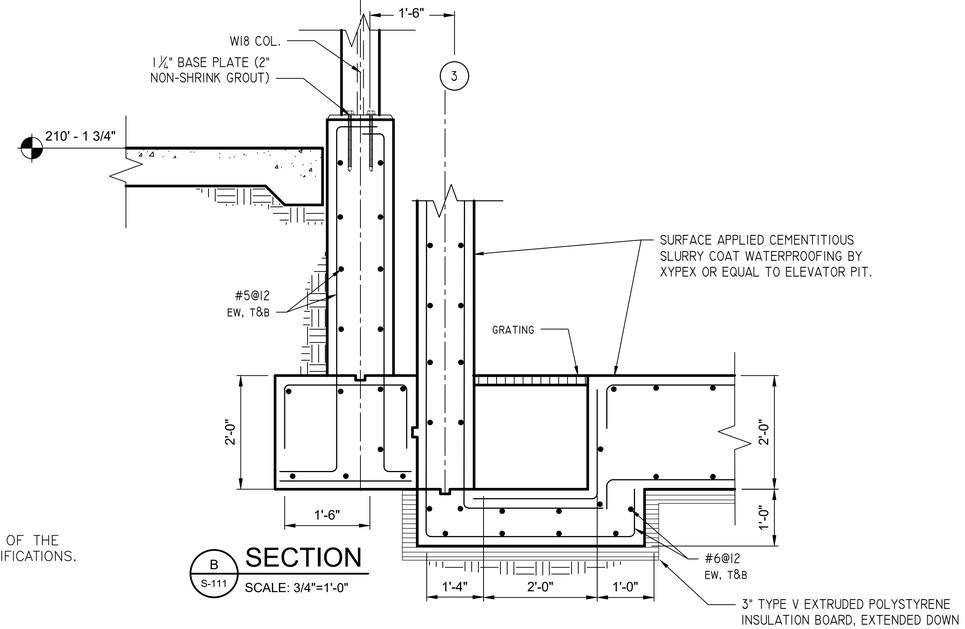


A S-111 **SECTION**
SCALE: 3/4"=1'-0"



B S-111 **SECTION**
SCALE: 3/4"=1'-0"

NOTES:

1. FOR WATERPROOFING REQUIREMENTS OF THE ELEVATOR JACK ASSEMBLY SEE SPECIFICATIONS.

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1	3/3/2020	WATERPROOFING ADDED						CONFORMED					
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
		REVISIONS						REVISIONS					

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TITLE
METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION DETAIL ELEVATION

CONTRACT NO. 1000106733
SCALE AS NOTED | DATE 11-20-2019
DRAWING NO. S-202
SHEET 37 OF 75

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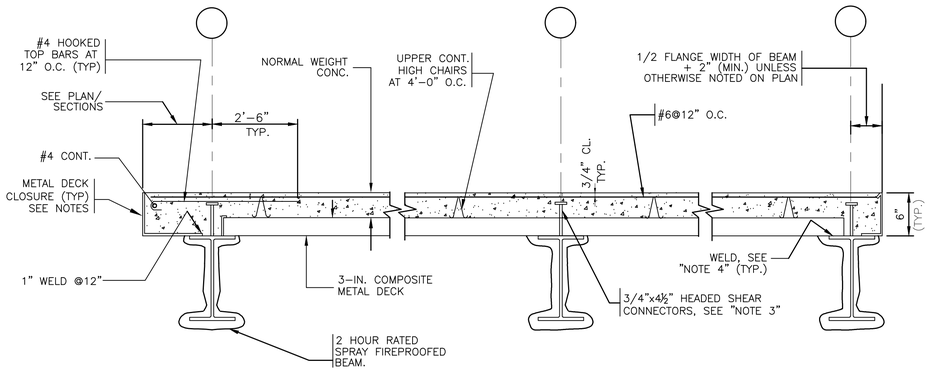
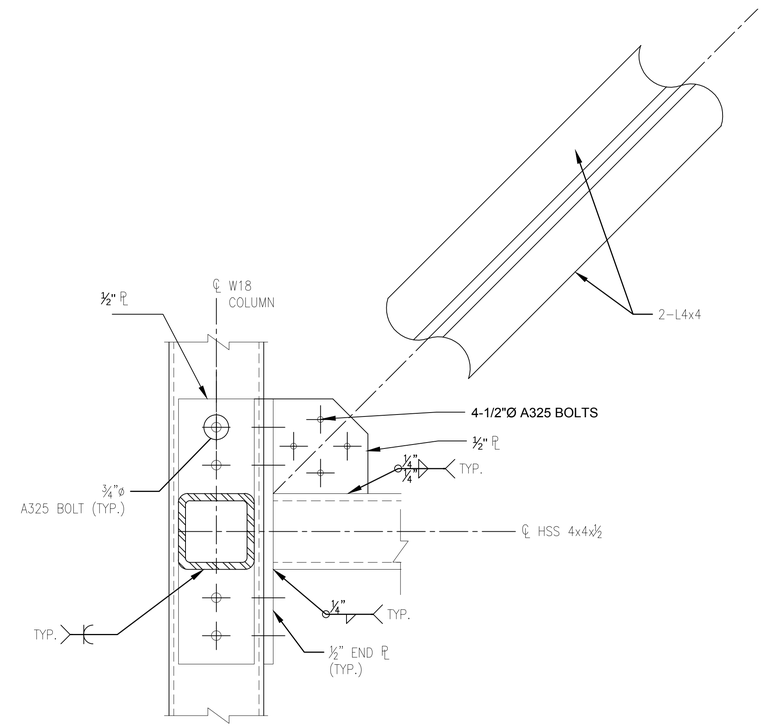


TYPICAL FLOOR CONSTRUCTION DETAIL (SECTION PARALLEL TO SPAN OF DECK)

- / S-203

SCALE: NTS



CONNECTION DETAIL

1 / S-201

SCALE: NTS

NOTES:

1. ATTACH DECK PANELS TO ONE ANOTHER AT SIDE LAPS BY MECHANICALLY FASTENING WITH #10 SHEET METAL SCREWS AT 24" ON CENTER.
2. NUMBER OF SHEAR CONNECTORS IS SHOWN ON PLANS BY <- ->.
3. WELD DECK TO STEEL WITH 3/4" DIA. PUDDLE WELDS AT 12" ON CENTER OR UL-APPROVED POWDER-ACTUATED FASTENERS. WHERE TWO UNITS ABUT, EACH UNIT SHALL BE SO WELDED OR FASTENED TO THE STEEL FRAMING.
4. THICKNESS OF CLOSURE PIECE IS DETERMINED BY DECK MANUFACTURER.
5. IN LIEU OF PLACING REINFORCEMENT BARS, THE CONTRACTOR HAS THE OPTION OF USING WELDED WIRE REINFORCEMENT (WWR) OF EQUIVALENT STRENGTH IF ACCEPTED BY THE ENGINEER OF RECORD.

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NO.	DATE		DRWN	CHKD	APPVD

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TITLE
METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION DETAIL

CONTRACT NO. 1000106733

SCALE: AS NOTED | DATE: 11-20-2019

DRAWING NO. S-203

SHEET 38 OF 76

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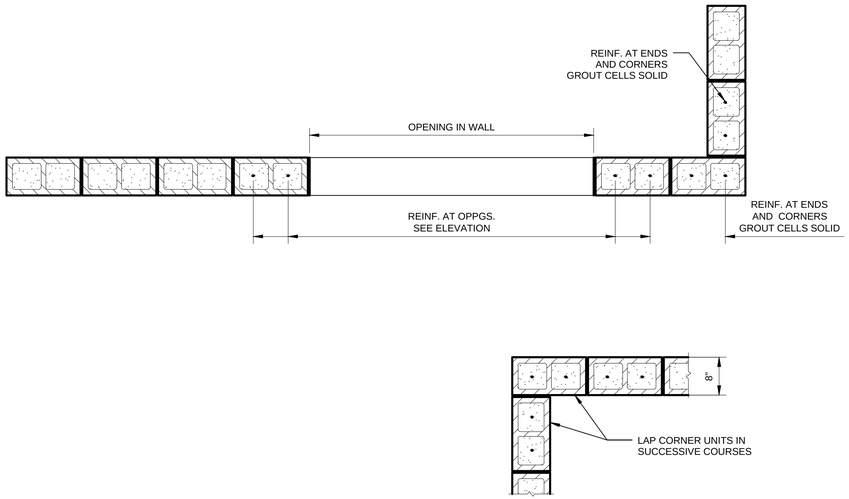

- / S-204 TYP. MASONRY WALL CORNERS AND INTERSECTION DET.
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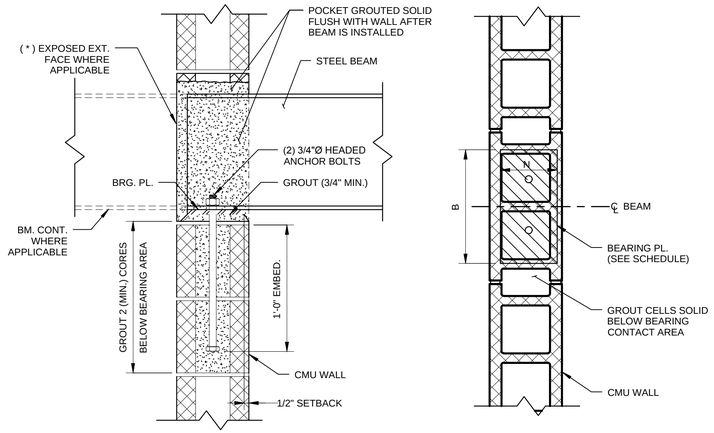


BEARING PLATE SCHEDULE
(BEAM PERPENDICULAR TO WALL)

BEAM	SIZE t x N x B
W8	3/4" x 7" x 0'-8"
W12	3/4" x 7" x 0'-7"

NOTE: IF NO PLATE IS REQUIRED, BEAM SHALL BEAR ALONG ENTIRE WALL WIDTH.

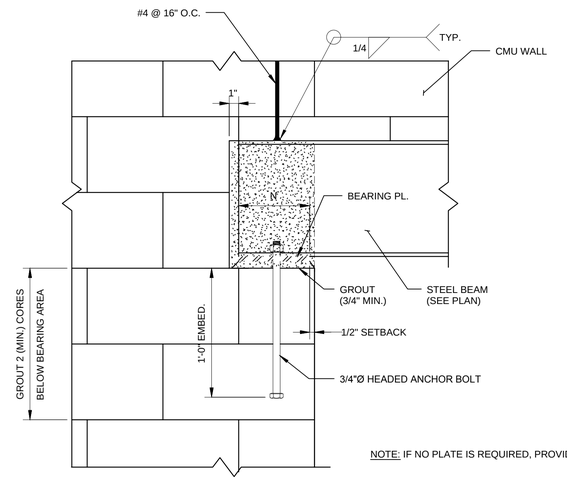
- / S-204 TYP. DET. OF STEEL BEAM BEARING ON CMU WALL 1
SCALE: NTS

MASONRY WALL STEEL LINTEL SCHEDULE

MAX. WALL OPENING	MASONRY WALL THICKNESS
	8" WALL
3'-0"	2- L3 1/2x3 1/2x1/4
4'-0"	2- L4x3 1/2x1/4
5'-0"	2- L5x3 1/2x1/4
6'-0"	2- L5x3x1/4

NOTES:

1. PROVIDE AND INSTALL LINTEL ANGELS FOR MASONRY OPENINGS IN ACCORDANCE WITH THE SCHEDULE ABOVE. INSTALL LONG LEG VERTICAL.
2. PROVIDE 6" MIN. BEARING AT EACH END, BUT NOT LESS THAT 1" PER FOOT OF SPAN. FILL 2 COURSES OF MASONRY BELOW BEARING WITH GROUT.
3. FOR LINTELS IN EXTERIOR WALLS, MINIMUM THICKNESS SHALL BE 5/16" AND ANGLES SHALL BE HOT DIPPED GALVANIZED.



BEARING PLATE SCHEDULE
(BM PARALLEL TO WALL)

BEAM	SIZE t x N x B
W8	3/4" x 7" x 0'-8"
W12	3/4" x 7" x 0'-7"

NOTE: IF NO PLATE IS REQUIRED, PROVIDE A MINIMUM BEARING LENGTH (N) OF 9".

- / S-204 TYP. DET. OF STEEL BEAM BEARING ON CMU WALL 2
SCALE: NTS

100% DESIGN SUBMISSION

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		REVISIONS						REVISIONS					

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDYS STATION
TIPICAL MASONRY DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. S-204
SHEET 39 OF 76

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MECHANICAL NOTES:

1. WORK IN THIS SECTION INCLUDES THE PROVIDING OF LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR COMPLETE AND SAFE INSTALLATION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND AUTHORITIES HAVING JURISDICTION.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS.
3. SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. BEFORE PROCEEDING WITH WORK, CHECK AND VERIFY ALL DIMENSIONS.
4. MAKE ADJUSTMENTS THAT MAY BE NECESSARY OR REQUIRED IN ORDER TO RESOLVE SPACE PROBLEMS.
5. CONTRACTOR SHALL BE RESPONSIBLE TO APPLY AND PAY FOR ALL REQUIRED PERMITS. CERTIFICATES AND AGENCY APPROVALS, ALL DOCUMENTS REQUIRED IN ADDITION TO THE CONTRACT DOCUMENTS SHALL BE PROVIDED BY THE CONTRACTOR. PROVIDE COPIES OF ALL REQUIRED CERTIFICATIONS AND APPROVALS TO THE OWNER.
6. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE AND PROFESSIONAL MANNER CONSISTENT WITH ALL APPLICABLE INDUSTRY STANDARDS. SYSTEM INSTALLATIONS SHALL CONFORM WITH ALL APPLICABLE INDUSTRY STANDARDS.
7. BEFORE SUBMITTING PROPOSAL, THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AND/OR PRESENT BUILDING AFFECTED BY THIS WORK SO AS TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND THE DIFFICULTIES ASSOCIATED WITH THE EXECUTION OF THE WORK. THESE DIFFICULTIES INCLUDE ACCESS FOR EQUIPMENT REMOVAL/INSTALL AND THE AVAILABILITY OF THE EQUIPMENT AND MATERIALS. REPORT IN WRITING ANY CONDITIONS WHICH MIGHT ADVERSELY AFFECT THEIR WORK.
8. PROVIDE THREE SETS OF OPERATION AND MAINTENANCE MANUALS COVERING ALL INSTALLED EQUIPMENT ITEMS TO THE OWNER. THE O&M MANUALS SHALL ALSO INCLUDE AS-BUILT DRAWINGS AND BALANCING REPORT.
9. CONTRACTOR SHALL ENGAGE THE SERVICES OF AN APPROVED TESTING AND BALANCING CONTRACTOR WITH NEBB OR AABC CERTIFICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY ADJUSTMENTS TO OBTAIN FLOW RATES AS INDICATED ON DRAWINGS. PROVIDE A FINAL TEST REPORTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: CFM, STATIC PRESSURE, COOLING COIL DISCHARGE TEMPERATURE, & FINAL FAN RPM.
10. THE CONTRACTOR SHALL LABEL ALL PIPING AND EQUIPMENT.
11. CONTRACTOR SHALL MAKE TESTS AT HIS OWN EXPENSE, AS REQUIRED BY OWNER AND/OR ANY INSPECTION DEPARTMENT. TEST SHALL BE MADE TO VERIFY WHETHER THE SYSTEM AND EQUIPMENT INSTALLED COMPLY WITH THE SPECIFICATIONS AND ARE IN PROPER WORKING ORDER.
12. AS PART OF THIS CONTRACT, ALL WORK AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE COVERED UNDER A FULL YEAR GUARANTEE. THE WARRANTY SHALL COMMENCE ON THE DATE OF THE OWNER'S FINAL ACCEPTANCE.
13. PROVIDE DIELECTRIC ISOLATORS BETWEEN DISSIMILAR METALS.
14. IT IS NOT INTENDED THAT THE PLANS OR SPECIFICATIONS SHOW OR STATE EVERY DETAILED REQUIREMENT OF THE WORK, BUT RATHER THAT THEY FURNISH ADEQUATE INFORMATION FOR THE CONTRACTOR TO MAKE COMPLETELY APPROVED INSTALLATION.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, WITHOUT ADDITIONAL CHARGE, ANY EXISTING WORK DAMAGED BY HIM DURING THE COURSE OF THIS CONSTRUCTION.
16. MECHANICAL CONTRACTOR SHALL PROVIDE NECESSARY CONTROLS AND INSTALLATION OF EQUIPMENT SUPPLIED BY THE UNIT MANUFACTURER TO MEET THE OPERATIONAL REQUIREMENTS OF THE MANUFACTURER SPECIFICATION.
17. CONTRACTOR SHALL LEAVE ALL SYSTEMS IN PROPER WORKING ORDER AND SHALL, WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK, MATERIALS, OR EQUIPMENT FURNISHED AND INSTALLED BY HIM UNDER HIS CONTRACT WHICH DEVELOPS DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
18. ALL WORK SHALL BE COORDINATED WITH OTHER DISCIPLINES. COORDINATE ALL WALL, FLOOR, CEILING AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR AND AS APPROVED BY THE ENGINEER.
19. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF AS PER DIRECTION OF THE OWNER.
20. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL MAJOR MANUFACTURED ITEMS REQUIRED ON THIS PROJECT. PURCHASE OR INSTALLATION OF EQUIPMENT OR SYSTEM COMPONENTS PRIOR TO APPROVAL OF SHOP DRAWINGS IS FORBIDDEN. APPROVAL OF SHOP AND SETTING DRAWINGS SHALL ONLY BE CONSTRUED TO APPLY TO GENERAL LAYOUT AND CONFORMANCE TO THE DESIGN CONCEPT OF THE PRODUCT AND FOR COMPLIANCE WITH THE GENERAL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL REMAIN THE CONTRACTOR'S UNLESS HE/SHE HAS SPECIFICALLY IN WRITING, SPECIFICALLY CALLED ATTENTION TO SUCH DEVIATIONS AT THE TIME OF THE SUBMISSION AND HAS RECEIVED WRITTEN APPROVAL OF SUCH DEVIATION FROM THE OWNER.
21. CONTRACTOR SHALL PROVIDE PRODUCT DATA INCLUDING INSTALLATION AND STARTUP INSTRUCTIONS FOR ALL EQUIPMENTS PROVIDED BY HIM/HER. SUBMITTALS SHALL INCLUDE PERFORMANCE DATA, DETAILED SHOP DRAWINGS, WIRING DIAGRAMS AND MAINTENANCE INSTRUCTIONS.
22. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
23. CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL SHAPES, HANGER RODS, STRAPS, ETC. REQUIRED FOR ALL SYSTEM INSTALLATION.
24. PROVIDE ALL CUTTING AND PATCHING AS REQUIRED. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR AND AS APPROVED BY THE ENGINEER.
25. SEAL ALL EXTERIOR WALL PENETRATIONS WEATHER TIGHT, PROVIDE FIRE RATED SLEEVES AT ALL FIRE WALL PENETRATIONS AND SEAL AROUND ALL PIPE WITH FIRE STOP SEALANT. COORDINATE PENETRATIONS AND FIRE STOPPING WITH THE GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER.
26. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TO THE OWNER COMPLETE AND ACCURATE "AS CONSTRUCTED DOCUMENTATION" FOR ALL SYSTEMS INSTALLED OR ALTERED UNDER THIS CONTRACT.

GENERAL NOTES:

1. REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL REPLACEMENT WORK AND SHUTDOWNS SHALL BE COORDINATED WITH METRO-NORTH.
3. ALL WORK SHALL BE DISCUSSED WITH METRO-NORTH TWO WEEKS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL PROVIDE "ACTION PLAN".
4. THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO EXTEND ALL POWER WIRING, CONTROL WIRING AND FIRE ALARM WIRING AS NECESSARY, TO CONNECT UP TO ALL NEW AND REPLACED HVAC EQUIPMENT.
5. MECHANICAL CONTRACTOR TO OBSERVE EXISTING CONDITIONS PRIOR TO WORK. CONTRACTOR IS RESPONSIBLE TO REPAIR/REPLACE ANY DAMAGED ITEMS (CEILING, WALLS, ROOFING, ETC.) TO MATCH AS-BUILT CONSTRUCTION.
6. ALL WORK SHALL BE COORDINATED WITH OTHER DISCIPLINES. COORDINATE ALL WALL, FLOORS AND CEILING PENETRATIONS WITH THE GENERAL CONTRACTOR AND AS APPROVED BY THE ENGINEER.
7. THERE ARE UNRELATED MECHANICAL, ELECTRICAL, AND COMMUNICATION FEATURES (AIR HANDLING UNITS, PIPING, ETC.) THAT ARE NOT SHOWN. CONTRACTOR SHALL UNDERSTAND THE EXISTING EQUIPMENT AND CAREFULLY EXECUTE THEIR WORK IN WAYS TO AVOID DAMAGE TO ALL UNRELATED EQUIPMENT.

CLEANING NOTES:

1. ALL "EXISTING TO REMAIN", EXISTING RELOCATED OR NEW ITEMS INSTALLED BY THE GENERAL CONTRACTOR IN ADDITION TO BEING AMPLY PROTECTED THROUGHOUT THE PERIOD OF CONSTRUCTION SHALL BE THOROUGHLY CLEANED AND VACUUMED TO THE SATISFACTION OF THE OWNER PRIOR TO BEING TURNED OVER TO THE OWNER.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO THOROUGHLY CLEAN OUT ALL DEBRIS AND FLUSH CLEAN ALL NEW PIPING TO THE SATISFACTION OF THE ENGINEER.

COMMISSIONING NOTES:

1. BECAUSE THIS PROJECT IS BY NATURE A REPLACEMENT, THE COMMISSIONING SCOPE IS MINIMAL.
2. THE OWNER OR AUTHORIZED REPRESENTATIVE WILL ACT AS THE COMMISSIONING AGENT.
3. ALL CONTRACTORS AND EQUIPMENT VENDORS WILL PROVIDE THEIR CUSTOMARY STARTUP AND TEST WORK, INCLUDING THE WORK DESCRIBED IN THE PROJECT DOCUMENTS. CONTRACTORS AND VENDORS WILL SUBMIT ALL THEIR STARTUP REPORTS TO THE COMMISSIONING AGENT FOR REVIEW.
4. THE COMMISSIONING AGENT WILL REVIEW AND COMMENT ON THE STARTUP DOCUMENTATION AND PROVIDE ACCEPTANCE OR COMMENTS. FINAL ACCEPTANCE OF THIS DOCUMENTATION INDICATES A SUCCESSFUL CONSTRUCTION EFFORT.
5. THE COMMISSIONING AGENT WILL DEVELOP FUNCTIONAL TEST PROCEDURES TO DOCUMENT SUCCESSFUL IMPLEMENTATION OF THE CONTROL SYSTEM. THESE TEST PROCEDURES WILL TEST ALL FACETS OF THE SEQUENCE OF OPERATION, IT WILL INCLUDE SPOT CHECKS OF INSTRUMENTATION ACCURACY AND VALIDATE THE GRAPHIC DISPLAY CORRECTLY INDICATES THE OPERATING CONDITIONS. THIS TEST PROCEDURE WILL BE AVAILABLE FOR REVIEW AND COMMENT BY CONTRACTORS AND VENDORS BEFORE BEGINNING TESTING. CONTRACTORS AND VENDORS WILL ACTIVELY PARTICIPATE IN THIS TESTING BY OPERATING THE EQUIPMENT AS DIRECTED IN THE TEST PROCEDURES. CONTRACTORS AND VENDORS WILL CORRECT DEFICIENCIES REVEALED IN THIS TESTING AND SUBMIT FOR RETESTING. RETESTING WILL CONTINUE UNTIL THE COMMISSIONING AGENT AND OWNER ARE SATISFIED THE SYSTEM IS OPERATING CORRECTLY.

NEW YORK STATE BUILDING NOTES:

1. ALL WORK SHALL BE GOVERNED BY THE 2015 N.Y.S. BUILDING CODE, AND BUILDING STANDARDS. ALL REQUIREMENTS SPECIFIED IN THE CODE SHALL BE ADHERED TO AS IF THEY WERE CALLED FOR, OR SHOWN ON THE DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT ANY REQUIREMENTS SET FORTH ON THE DRAWINGS MAY BE MODIFIED BECAUSE THEY ARE MORE STRINGENT THAN THE CODE REQUIREMENTS OR BECAUSE THEY ARE NOT SPECIFICALLY REQUIRED BY CODE.
2. VERIFY ALL CONDITIONS COVERING OR AFFECTING THE WORK, OBTAIN & VERIFY ALL DIMENSIONS TO ENSURE ITS PROPER STRENGTH, FIT & LOCATION. VISIT EXISTING SITE TO BECOME FAMILIAR WITH ITS CONSTRUCTION REQUIREMENTS, REPORT TO THE ENGINEER ANY & ALL CONDITIONS WHICH MAY INTERFERE WITH & OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION & COMPLETION OF THE WORK.
3. ANY EXISTING CONSTRUCTION, INCLUDING FIREPROOFING, DISTURBED AS A RESULT OF THIS CONTRACT SHALL BE REPLACED AS REQUIRED TO THE SATISFACTION OF THE ENGINEER.
4. EXISTING CONSTRUCTION NOT UNDERGOING ALTERATION IS TO REMAIN UNDISTURBED. WHERE SUCH CONSTRUCTION IS DISTURBED AS A RESULT OF THE OPERATIONS OF THIS CONTRACT, IT SHALL BE REPAIRED OR REPLACED AS REQUIRED BY & TO THE SATISFACTION OF THE ENGINEER.
5. COORDINATE FOR EASE & RAPIDITY OF CONSTRUCTION, THE WORK OF OTHER TRADES. ALL SLOTS, SLEEVES, AND/OR OTHER OPENINGS TO BE COORDINATED & SET BEFORE CLOSING OPENINGS.
6. EACH CONTRACTOR SHALL PROVIDE ALL THE NECESSARY SUPPORT, BRACING, SHORING, ETC. (TEMPORARY &/OR PERMANENT) OF BOTH NEW & EXISTING CONSTRUCTION AS REQUIRED FOR THE SAFE INSTALLATION OF NEW CONSTRUCTION & EQUIPMENT.
7. DURING CONSTRUCTION OPERATIONS "BUSINESS AS USUAL" IS TO BE MAINTAINED THROUGHOUT THE BUILDING, THEREFORE THE CONSTRUCTION TECHNIQUES, TIME OF CONSTRUCTION, TEMPORARY PARTITIONS & PROTECTION METHODS SHALL SAFELY ALLOW FOR THIS REQUIREMENT.
8. PROVIDE TEMPORARY PROTECTION & WEATHER SEAL OF ALL WINDOW OPENINGS DURING CONSTRUCTION.
9. FINAL CLEAN-UP (BROOM CLEAN) & THE REMOVAL OF ALL DEBRIS ON A DAILY BASIS SHALL BE INCLUDED AS PART OF THE CONTRACT. CONTRACTOR IS SPECIFICALLY DIRECTED TO THE REQUIREMENT THAT IT IS MANDATORY TO MINIMIZE ALL DUST.

100% DESIGN SUBMISSION

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DRAWN	J. CRESPO
CHECKED	M. MELLER
APPROVED	AR. GULERIA, P.E.

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TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES

CONTRACT NO.	
1000106733	
SCALE: NONE	DATE: 11-20-2019
DRAWING NO.	M-001
SHEET 40 OF 76	

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ABBREVIATIONS:

AC	AIR CONDITIONING
ACD	AUTOMATIC CONTROL DAMPER
ACT	ACOUSTICAL TILE CEILING
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALD	ACOUSTICALLY LINED DUCTWORK
APPROX	APPROXIMATE
BDD	BACKDRAFT DAMPER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOU	BOTTOM OF UNIT
BTU/H	BRITISH THERMAL UNITS PER HOUR
CC	COOLING COIL
CD	CEILING DIFFUSER
CG	CEILING GRILLE
CSER	CUSTOMER SERVICE EQUIPMENT ROOM
DB	DRY BULB
DEG	DEGREE
DIA	DIAMETER
DIFF	DIFFUSER
(E)	EXISTING
EA	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETC.	ET CETERA
EXIST.	EXISTING
EXH	EXHAUST
F	FARENHEIT
F	FAN
FC	FLEXIBLE CONNECTION
FD/AD	FIRE DAMPER (W/ACCESS DOOR)
FLTR	FILTER
FSD/AD	COMB. FIRE/SMOKE DAMPER (W/AD)
FT.	FEET
H	HEIGHT
HC	HEATING COIL
HP	HORSE POWER
HZ	HERTZ
IN.	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
MAX.	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MIN.	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
MUA	MAKE-UP AIR
MUW	MAKE-UP WATER
(N)	NEW
NC	NOISE CRITERIA
NO.	NUMBER
NO	NORMALLY OPENED
NC	NORMALLY CLOSED
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
PH	PHASE
QTY.	QUANTITY
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RLA	RATED LOAD AMPERAGE
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
SA	SUPPLY AIR
SD	SMOKE DAMPER
SDET	SMOKE DETECTOR
SEF	SMOKE EXHAUST FAN
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SR	SUPPLY REGISTER
SQFT	SQUARE FOOT
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOU	TOP OF UNIT
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
V	VOLTS
VD	VOLUME DAMPER
W	WIDTH
WB	WET BULB
W.G.	WATER GAUGE
WMS	WIRE MESH SCREEN

NOTE:
SOME SYMBOLS AND ABBREVAITIONS MAY NOT BE USED ON THIS PROJECT'S DRAWINGS

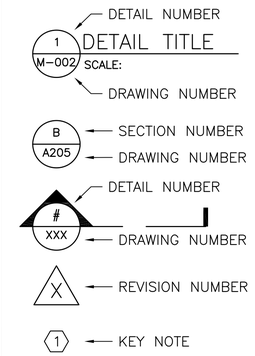
SYMBOLS:

SYMBOL	DESCRIPTION
⊠	SUPPLY AIR
⊘	RETURN OR EXHAUST AIR
SD/AD	SMOKE DAMPER W/AD
FD/AD	FIRE DAMPER W/AD
FSD/AD	COMBINATION FIRE & SMOKE DAMPER W/AD
M	MOTORIZED DAMPER
T	THERMOSTAT/SENSOR
⊘	GRILLE OR REGISTER
⊠	DIFFUSER, 4-WAY BLOW
S	DUCT MOUNTED SMOKE DETECTOR
H	HUMIDITY SENSOR OR HUMIDISTAT
SD	SMOKE DETECTOR
	DIFFUSER, GRILLE, REGISTER LETTER DESIGNATOR (SEE SCHEDULE FOR ATD TYPE)
A(200)	DESIGN CFM
	CIRCUIT SETTER BALANCING VALVE
	BALL VALVE
	STRAINER
	CAPPED OUTLET
P	PRESSURE GAUGE
	THERMOMETER
	SOLENOID VALVE
	AIR FLOW
	CONNECT NEW TO EXISTING
	TERMINATION POINT OF DEMOLITION
	CONNECT TO MANUFACTURERS PRE-PIPED CONNECTION

LINE DESIGNATIONS:

NAME	PIPING/EQUIPMENT (SERVICE AS INDICATED)
(E)NAME	EXISTING PIPING/EQUIPMENT TO REMAIN (SERVICE AS INDICATED)
X X X X	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED (SERVICE AS INDICATED)
(NAME)	FUTURE EQUIPMENT (SERVICE AS INDICATED)
CD	CONDENSATE DRAIN
GCHWR	GLYCOL CHILLED WATER RETURN
GCHWS	GLYCOL CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
D	DRAIN
EA	EXHAUST AIR
RA	RETURN AIR
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RD	REFRIGERANT DISCHARGE
SA	SUPPLY AIR
#	LOW VOLTAGE WIRING

REFERENCE SYMBOLS:



100% DESIGN SUBMISSION

								CONFORMED					
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
REVISIONS						REVISIONS							

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
ABBREVIATIONS AND SYMBOLS

CONTRACT NO. 1000106733
SCALE NONE
DATE 11-20-2019
DRAWING NO. M-002
SHEET 41 OF 76

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NOTES:

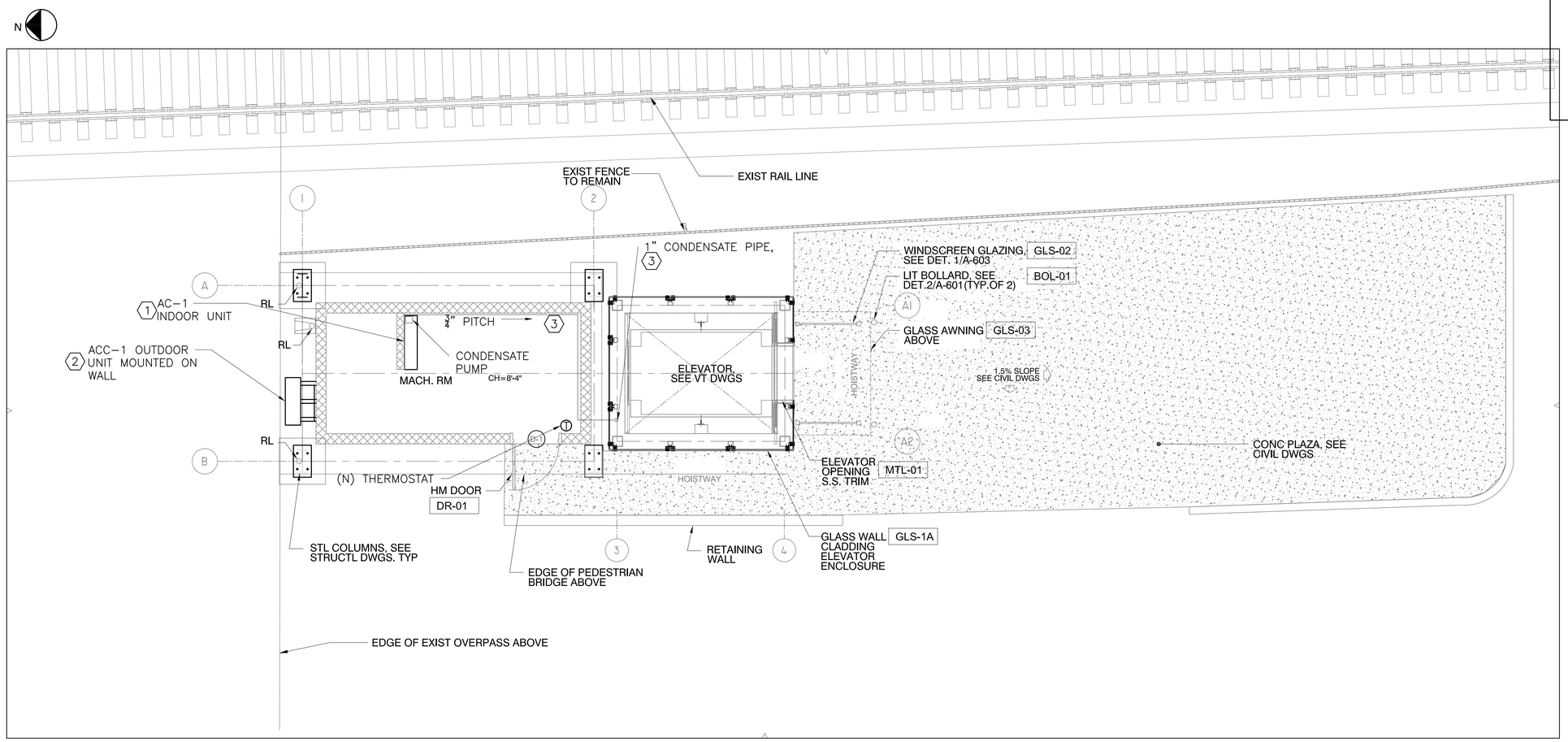
1. FOR SYMBOLS, ABBREVIATIONS REFER TO DWG. M–002 FOR GENERAL MECHANICAL NOTES
2. THIS DRAWING IS INTENDED TO SHOW A CONCEPTUAL DESIGN AND IS NOT MEANT TO DEPICT ACTUAL HARDWARE ARRANGEMENTS OPTIONS ARE POSSIBLE.

KEY NOTES:

(1) AC–1 PROVIDE NEW DUCTLESS INDOOR HEAT–PUMP UNIT (WALL MOUNTED 6 FEET FROM AFF) WITH FACTORY INSTALLED DRAIN PUMP. REFER TO SCHEDULE DWG M–501

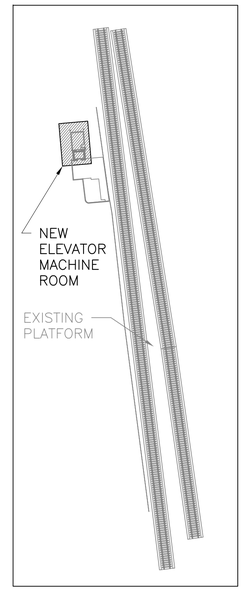
(2) PROVIDE NEW HEAT–PUMP UNIT (ACC–1) OUTDOOR FOR UNIT (AC–1). SEE SCHEDULE DWG. NO. M–501. HEAT–PUMP OUTDOOR UNIT (WALL MOUNTED 2 FEET ABOVE GROUND) MECHANICAL CONTRACTOR TO PROVIDE WALL BRACKETS AND PROTECTIVE CAGE. LOCAL DISCONNECT SWITCH BY ELECTRICAL CONTRACTOR.

(3) PROVIDE 1" COPPER PIPING SCH 80 CONDENSATE PIPING. TERMINATE IN SUMP PUMP PIT. REFER TO PLUMBING DWG. P–201



1 M–201 MECHANICAL STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN
SCALE: 1/4"=1'–0"

0' 4' 8'
1/4"=1'–0"



STATION LEVEL

0' 64' 128'
1/64"=1'–0"

100% DESIGN SUBMISSION

DESIGNED	J. CRESPO
DRAWN	J. CRESPO
CHECKED	M. MELLER
APPROVED	AR. GULERIA, P.E.

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO. **M-201**
SHEET 42 OF 76

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DUCTLESS HEAT PUMP SYSTEM SCHEDULE (CONTINUATION)

INDOOR	AREA SERVICED	INDOOR UNIT LOCATION	NOMINAL TONS	TYPE	CFM	COOLING TOTAL (BTU/HR)	SENSIBLE (BTU/HR)	ENTERING AIR TEMPERATURE (F DB/DB)	HEATING (BTU/H)	EVAPORATOR (INDOOR UNIT) ELECTRICAL DATA								MANUFACTURER AND MODEL NUMBER
										V/PH/HZ	MCA	MOP	DIMENSIONS (WxHxD)	WEIGHT OPERATING LBS	DRAIN PIPE SIZE INCHES	REFRIG. PIPE SIZE GAS	REFRIG. PIPE SIZE LIQUID	
AC-1	ELEVATOR MACHINE ROOM	ELEVATOR MACHINE ROOM	2	WALL MOUNTED	635	24,283	18,929	80.0/67.6	27,520	208/1/60	0.6	15.0	41.1x11.4x9.3	30.9	3/4"	5/8"	3/8"	DAIKIN FXAQ24PVJU

DUCTLESS HEAT-PUMP SYSTEM SCHEDULE (CONTINUATION)

CONDENSING UNIT															MANUFACTURER AND MODEL NUMBER
OUTDOOR	LOCATION	NOMINAL TONNAGE	DESCRIPTION	COOLING BTU/H	AMBIENT DESIGN (F DB)	REFRIGERANT TYPE	HEATING BTU/H	AMBIENT DESIGN TEMP. (F DB/WB)	V/PH/HZ	MCA	MOP	RUNNING CURRENT AMPS (RLA)	DIMENSIONS (WxHxD)	WEIGHT (LBS.)	EER	
ACC-1	EXTERIOR WALL	2	AIR COOLED HEAT-PUMP	24,143	95.0	410A	26,827	9.0/9.0	208/1/60	16.5	25	15.3	37.0x39.0x12.6	172	14.3/11	DAIKIN RXSQ24TAVJU

NOTES:
1. CONTRACTOR SHALL PROVIDE THE FOLLOWING ACCESSORIES AND FACTORY OPTIONS: R410 REFRIGERANT, AUTO RESTART/RESET, TWO YEAR PARTS WARRANTY LOW AMBIENT CONTROL. OPTIONAL WIRED REMOTE CONTROL AND OUTDOOR UNIT, EQUIPMENT SUPPORT BRACKETS AND PROTECTIVE CAGE.
2. PROVIDE WALL MOUNTED MICROPROCESSOR CONTROL FOR TEMPERATURE CONTROL WITH LCD DISPLAY.
3. PROVIDE FACTORY INSTALLED CONDENSATE PUMP, INCLUDING ALL ACCESSORIES AND WALL MOUNTING BRACKET.
4. UNIT SHALL HAVE 5 YEARS COMPRESSOR WARRANTY.
5. REFRIGERANT PIPE SIZES AND PIPE TRIM SHALL BE VERIFIED BY UNIT MANUFACTURES BASED ON ACTUAL PIPING RUNS TO BE INSTALLED. MINIMUM PIPE SIZES SHALL BE 3/8" LIQUID AND 5/8" SUCTION. SUBMIT ALL SIZING AND CALCULATIONS TO ENGINEER BEFORE INSTALLATION.
6. INDOOR AND OUTDOOR SECTIONS ARE POWERED ELECTRICALLY INDEPENDENTLY.
7. PROVIDE MANUFACTURER'S EXTERNAL POWER DISCONNECT SWITCH

NOTES:

1. REFER TO DRAWING M-201 FOR MECHANICAL PLANS.

SEQUENCE OF OPERATIONS:

1. WHEN THE WALL MOUNTED THERMOSTAT CONTROLLER SENSES THE RISE IN THE TEMPERATURE ABOVE THE SET POINT (90°F ADJUSTABLE) THE HEAT PUMP UNIT (AC-1,) SHALL RUN CONTINUOUSLY TO COOL THE SPACE UNTIL THE TEMPERATURE REACHES (85°F ADJUSTABLE)
2. WHEN THE WALL MOUNTED THERMOSTAT CONTROLLER SENSES THE DROP IN THE TEMPERATURE BELOW THE SET POINT (50°F ADJUSTABLE) THE HEAT PUMP UNIT (AC-1,) SHALL RUN CONTINUOUSLY TO WARM UP THE SPACE UNTIL THE TEMPERATURE REACHES (55°F ADJUSTABLE).

100% DESIGN SUBMISSION

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New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
SCHEDULES

CONTRACT NO. 1000106733
SCALE NONE
DATE 11-20-2019
DRAWING NO. M-501
SHEET 43 OF 76

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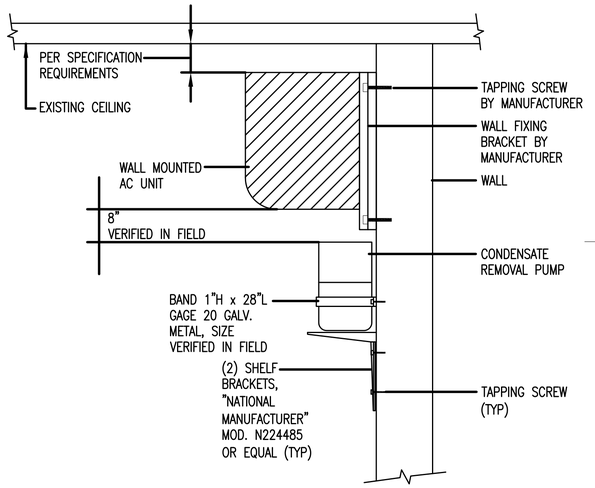
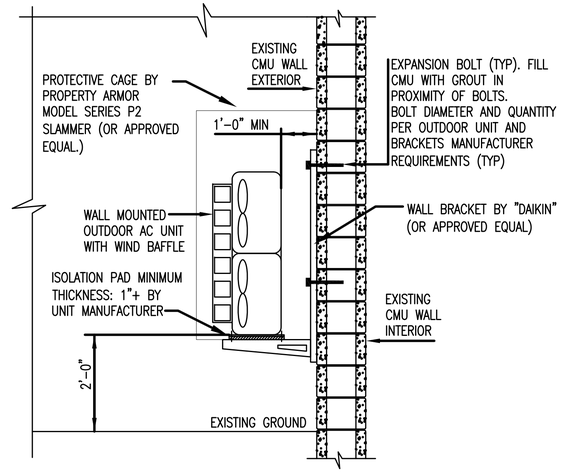


1 / M-601 TYPICAL SUPPORT FOR WALL MOUNTED AC UNIT
SCALE: NOT TO SCALE



2 / M-601 TYPICAL SUPPORT FOR WALL MOUNTED OUTDOOR UNIT
SCALE: NOT TO SCALE

100% DESIGN SUBMISSION

DESIGNED	J. CRESPO
DRAWN	J. CRESPO
CHECKED	M. MELLER
APPROVED	AR. GULERIA, P.E.

STATE OF NEW YORK · ARGUNAM SINGH GULERIA · 070008 · LICENSED PROFESSIONAL ENGINEER

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

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347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
DETAILS

CONTRACT NO.	1000106733
SCALE	NONE
DATE	11-20-2019
DRAWING NO.	M-601
SHEET	44 OF 76

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GENERAL NOTES:

1. EXISTING CONDITIONS INDICATED ON THE CONTRACT DRAWINGS ARE BASED ON FIELD OBSERVATIONS AND EXISTING RECORD DRAWINGS. VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF WORK.

2. NOTES AND GRAPHICAL REPRESENTATIONS ON THE CONTRACT DRAWINGS SHALL NOT LIMIT THE EXTENT OF THE REMOVALS REQUIRED. PERFORM REMOVALS NECESSARY TO ACHIEVE THE DESIGN INTENT. COORDINATE THE EXTENT OF REMOVALS WITH THE ARCHITECT.

3. FURNISH ALL THE FIXTURES, LIGHTING EQUIPMENT, AND COMPONENTS SHOWN ON THE PLANS, LISTED ON THE FIXTURE SCHEDULE AND ALL LABOR AND MATERIALS TO INSTALL THE SPECIFIED EQUIPMENT IN THE MANNER INDICATED.

4. ALL LAMPS AND ACCESSORY WIRING, ENTIRE FIXTURES AND ALL COMPONENT ELECTRICAL PARTS SHALL BE LISTED BY UL.

5. INSTALLATION OF ELECTRICAL EQUIPMENT INCLUDING RACEWAYS, PANELS AND JUNCTION BOXES ARE SHOWN DIAGRAMATICALLY. COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES.

6. THE CONTRACTOR SHALL PROTECT, PRESERVE, INCORPORATE, TEMPORARILY RELOCATE AND IF NECESSARY, SUPPORT ALL EXISTING UTILITIES AND ITEMS TO REMAIN. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEM DAMAGED DURING THE COURSE OF WORK, TO THE SATISFACTION OF THE ENGINEER.

7. UNLESS OTHERWISE INDICATED, EXISTING SERVICES, SYSTEMS AND WIRING SERVING EXISTING AREAS OUTSIDE THE AREA OF CONSTRUCTION SHALL REMAIN OR SHALL BE RELOCATED AS REQUIRED TO MAINTAIN OPERATION OF EXISTING SYSTEMS AND AVOID CONFLICT WITH CONSTRUCTION.

8. WHERE EQUIPMENT AND WIRING ARE REQUIRED TO REMAIN IN SERVICE, BUT INTERFERE WITH THE ALTERATIONS, RELOCATE AND RECONNECT USING MATERIALS AND STANDARDS OF THIS CONTRACT.

9. EMERGENCY LIGHTING FIXTURES AND INSTALLATIONS SHALL COMPLY WITH UL 924.

10. WHERE LIGHTING FIXTURES ARE SPECIFIED WITH BATTERY BACKUP, BATTERIES SHALL BE OF THE MAINTENANCE FREE TYPE, AND FIXTURES SHALL BE INSTALLED SUCH THAT THE BATTERY IS EASILY REMOVABLE FOR MAINTENANCE. BATTERY CHARGING SHALL BE BY SOLID-STATE CHARGER WITH REGULATED VOLTAGE AND SHORT-CIRCUIT PROTECTION.

11. AS PER NEC 2014, ARTICLE 344.26, THERE SHALL NOT BE MORE THAN FOUR QUARTER BENDS PER CONDUIT BETWEEN PULL POINTS.

12. THERMOSTAT AND HVAC CONTROL EQUIPMENT AND CIRCUITS NOT SHOWN. SEE HVAC PLANS AND SPECIFICATIONS.

13. ALL ELECTRICAL WIRES TO BE MINIMUM #12AWG.
    a. WIRES #6AWG AND LARGER TO BE COMPRESSED CONCENTRIC STRANDED COPPER CONDUCTORS TYPE XHHW-2.
    b. BUILDING WIRE #8AWG SHALL BE COMPRESSED CONCENTRIC STRANDED COPPER CONDUCTORS TYPE XHHW.
    c. BUILDING WIRE #10AWG AND SMALLER SHALL BE SOLID COPPER CONDUCTORS TYPE XHHW.

14. CONDUIT FOR LOW VOLTAGE (600V OR LESS) DISTRIBUTION SHALL BE RIGID GALVANIZED STEEL FOR INDOOR, EXPOSED OR CONCEALED DRY LOCATIONS.

15. CONTRACTOR SHALL COORDINATE WITH MNR AND THE UTILITY COMPANY NYSE&G FOR INSTALLATION OF THE NEW INCOMING SERVICE TO REDUCE SHUTDOWN TIME IN THE STATION.

16. USE HOT-DIP GALVANIZED, RIGID STEEL CONDUIT FOR ALL INDOOR INSTALLATION. CONDUIT WITH THE PVC COATING AND WIRING WITH PVC INSULATION AND/OR JACKET IS NOT PERMITTED FOR INDOOR INSTALLATION. USE PVC COATED, GALVANIZED RIGID STEEL CONDUIT FOR ALL OUTDOOR INSTALLATION, WHERE CONDUIT IS EXPOSED TO WEATHER.

17. HEAT TRACE TO BE DETERMINED IN FIELD. PREPARE SHOP DRAWINGS FOR ENGINEERS REVIEW.

GENERAL DEMOLITION NOTES:

1. THE CONTRACTOR SHALL FULLY EXAMINE ALL THE DRAWINGS RELATING TO THE REMOVAL WORKS, VISIT THE SITE AND SHALL BECOME COMPLETELY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND PREVAILING FIELD CONDITIONS.

LIGHTING FIXTURE SCHEDULE:

SYMBOL	DESIGNATION	DESCRIPTION	LOCATION	MANUFACTURER	CAT. NO.	MOUNTING TYPE
	TYPE A	MKENALL MILLENIUM STRETCH IS AN WET LOCATION LINEAR LED LIGHTING FIXTURE EQUIPPED WITH INTERNAL EMERGENCY BATTERY BACKUP.	BRIDGE	KENALL (OR APPROVAL EQUAL)	TMLHA12-48-R-MW-PD-67L35K-DCC-120-LEL	SURFACE
	TYPE B	KIM LIGHTING WARP9 2 FIXTURES BACK TO BACK ORIENTATION WITH PHOTOCELL. THE LIGHTING POLE TO BE ROUND EXTRUDED 6061-T6 ALUMINUM TUBING AS PER METRO NORTH RAILROAD STANDARDS. THE LIGHTING POLE TO BE ROUND EXTRUDED 6061-T6 ALUMINUM TUBING WITH AN 6" DIAMETER AS PER METRO NORTH RAILROAD STANDARDS.	STATION LEVEL	KIM LIGHTING (OR APPROVAL EQUAL)	LIGHTING FIXTURE: WPS9-2-E35-60L-3K-120-BL-A30-TL LIGHTING POLE: PRA14-6188-L-BL OR APPROVED EQUAL	12 FOOT POLE
	TYPE C	KENALL SHERIFF SERIES 5 LED LIGHTING FIXTURE EQUIPPED WITH BATTERY PACK	EMR	KENALL (OR APPROVAL EQUAL)	SH5-48-2-45L35K-DCC-1-DV-EL-EL	SURFACE
	TYPE D	LUMINAIRE LED, 30W, 4000K, 120/277V, CP, WHT, WET	ELEVATOR PIT	LUMINAIRE LED (OR APPROVAL EQUAL)	VISION 4: VPF43	SURFACE
	TYPE E	BOLLARD LTG- SEE ARCHITECTURAL DWG. FOR CATALOGUE#	STATION LEVEL			

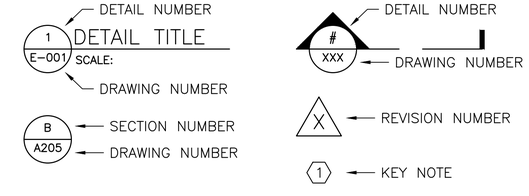
ABBREVIATIONS:

A	ALARM	HV,H	HIGH VOLTAGE (277/480V)
A, AMP	AMPERES	HZ	HERTZ
AIC	AMPERE INTERRUPTING CAPACITY	ID	INDICATING DEVICE CIRCUIT (FA)
		J, JB	JUNCTION BOX
AC	ALTERNATING CURRENT/	KAIC	KILOAMPERE INTERRUPTING CAPACITY
ACC	OUTDOOR AIR COOLED CONDENSER	KVA	KILOVOLT AMPERE
A/C	AIR CONDITIONING UNIT	KCMIL, MCM	THOUSAND CIRCULAR MIL
AF	AMPERE FUSE	KVAR	KILOVOLT AMPERES REACTIVE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AHU	AIR HANDLING UNIT	KWH	KILLOWATT HOURS
APPROX	APPROXIMATE	LP	LIGHTING PANEL
ARCH	ARCHITECTURAL	LTG	LIGHTING
AS	AMPERE SWITCH	LV, L	LOW VOLTAGE (120/208V)
AT	AMPERE TRIP	MACH.	MACHINE
ATS	AUTOMATIC TRANSFER SWITCH	MM	MONITOR MODULE
AUX	AUXILIARY	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MDSB	MAIN DISTRIBUTION SWITCHBOARD
BLDG	BUILDING		
C	CONDUIT	MLO	MAIN LUGS ONLY
CAT	CATALOGUE	MTD	MOUNTED
CB	CIRCUIT BREAKER	(N)	NEW
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CELL	ENCLOSURE FOR COMM EQUIPMENT	PA	PUBLIC ADDRESS EQUIPMENT
COMM	COMMUNICATIONS (EQUIPMENT OR WIRING)	PB	PULL BOX
		PF	POWER FACTOR
CSER	COMMUNICATION SERVICE EQUIPMENT ROOM	RGS	RIGID GALVANIZED STEEL (CONDUIT)
CTRL	CONTROL	PH	PHASE
DWG	DRAWING	PNL	PANEL
DN	DOWN	PVC	POLYVINYL CHLORIDE (CONDUIT)
E	EXISTING	PWR	POWER
(E)	EXISTING TO REMAIN	(R)	EXISTING TO BE REMOVED
ELEC	ELECTRICAL (EQUIPMENT OR WIRING)	REQ	REQUIRED
		RM	ROOM
EC	EMPTY CONDUIT	RP	RECEPTACLE PANEL
EF	EXHAUST FAN	RGS	RIGID GALCANIZED STEEL
ELEV	ELEVATION/ELEVATOR		
EM	EMERGENCY	ST	SHUNT TRIP
EMT	ELECTRICAL METALLIC TUBING	SS	SERVICE SWITCH
ER	EXISTING TO BE DISCONNECTED AND REMOVED	SVR	SERVER
		SW	SWITCH
ERL	EXISTING TO BE RE-USED (DISCONNECTED, RELOCATED AND REWIRED)	SWS	SWITCHES
		S	SUPERVISORY
		T	TRANSFORMER
EUH	ELECTRIC UNIT HEATER	TBD	TO BE DETERMINED
EQUIP	EQUIPMENT	TR	TRACK
EXIST	EXISTING		SURGE SUPRESSION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FBO	FURNISHED BY OTHERS	UOI	UNLESS OTHERWISE INDICATED
FU	FUSE	UON	UNLESS OTHERWISE NOTED
GEN	GENERAL	UOS	UNLESS OTHERWISE SPECIFIED
G,GND	GROUND	V	VOLTS
GFI	GROUND FAULT INTERRUPTER	VA	VOLT AMPERE
GFP	GROUND FAULT PROTECTION	W	WATTS, WIRE
HP	HORSEPOWER, HELP POINT INTERCOM	W/	WITH
		WP	WATERPROOF
HPS	HIGH PRESSURE SODIUM (LAMP)	MNR	METRO NORTH RAILROAD
		NYSE, GCO	NEW YORK STATE ELECTRICAL & GAS COMPANY

SYMBOLS:

SYMBOL	DESCRIPTION
	HOMERUN TO PANELBOARD • ONE ARROW HEAD PER POLE • EACH CIRCUIT REQUIRES 2#12AWG AND 1#12G IN 3/4" CONDUIT, U.O.N.
G	– HASHMARKS DENOTE NUMBER OF WIRES IF MORE THAN TWO ARE REQUIRED. – ARROWS DENOTE HOMERUNS OF PARTICULAR CIRCUITS MINIMUM 2#12 IN 3/4" CONDUIT U.O.N.
	THREE-PHASE HOMERUN • EACH CIRCUIT REQUIRES 2#12AWG AND 1#12G IN 3/4" CONDUIT, U.O.N.
Sa	SWITCH • a INDICATES FIXTURES CONTROLLED
3P 60A	3 POLE UN-FUSED SAFETY DISCONNECT SWITCH. 240V OR 600V AS REQUIRED. • NUMBER INDICATES AMPERE SIZE IF OVER 30A
M	MOTOR • NUMERAL INDICATES HORSEPOWER
	PANELBOARD
PB	PULLBOX IN NEMA 4X ENCLOSURE
	SINGLE THROW SWITCH
	FUSE
100AF 60AT	CIRCUIT BREAKER • AF INDICATES FRAME SIZE • AT INDICATES TRIP SETTING
D #	WALL MOUNTED 5-20R DUPLEX RECEPTACLE IN NEMA 1 ENCLOSURE • # INDICATES CIRCUIT NUMBER • D INDICATES DESCRIPTION – WP INDICATES WEATHERPROOF – GFCI INDICATES GROUND FAULT CIRCUIT INTERRUPTER
D #	DOUBLE DUPLEX RECEPTACLE – GFCI INDICATES GROUND FAULT CIRCUIT INTERRUPTER
Y	TRANSFORMER – WYE DELTA
J	JUNCTION BOX
	CONDUIT UP
	CONDUIT DOWN
	CONDUIT UP/DOWN
	NEW EQUIPMENT/CONDUIT
	EXISTING TO REMAIN
	EXISTING UNDERGROUND FEEDER

REFERENCE SYMBOLS:



100% DESIGN SUBMISSION

DESIGNED O. TINEO
DRAWN O. TINEO
CHECKED A. LAMPA, P.E.
APPROVED A. GULERIA, P.E.

STATE OF NEW YORK ARGUNAM SINGH GULERIA LICENSED PROFESSIONAL ENGINEER 070408

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES, SYMBOLS, LEGENDS AND LIGHTING FIXTURE SCHEDULE

CONTRACT NO. 1000106733
SCALE NONE
DATE 11-20-2019
DRAWING NO. E-001
SHEET 45 OF 76

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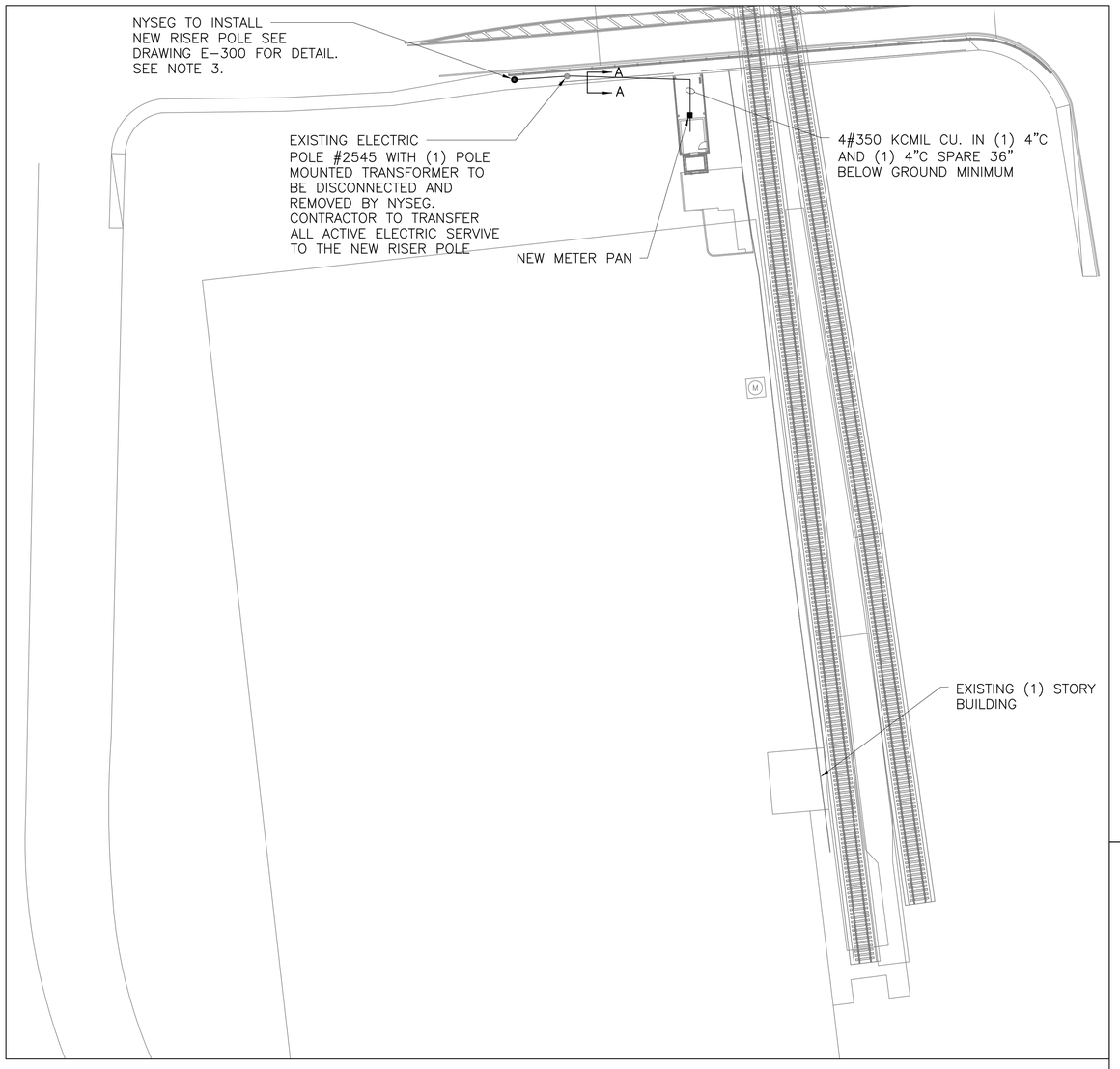


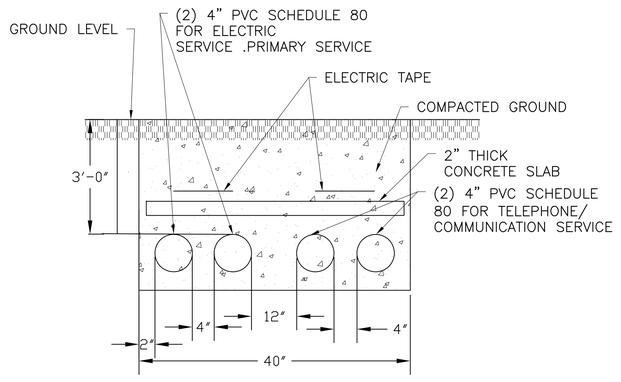
1 E-100 ELECTRICAL SITE PLAN
SCALE: 1/32"=1'-0"
0' 32' 64'
1/32"=1'-0"

N

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E-001.
2. ELECTRICAL EQUIPMENT LOCATIONS AND CONDUITS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE VERIFIED IN FIELD.
3. ALL EXISTING RISER INSTALLED AT THE EXISTING POLE #2445 SHALL BE TRANSFERRED TO THE NEW RISER POLE.
4. CONTRACTOR TO VISIT AND INVESTIGATE EXISTING CONDITIONS BEFORE BIDDING AND INSTALLATION.
5. ALL WORK ON ELECTRIC SERVICE AND TELEPHONE SERVICE SHALL BE AS PER NYSEG AND VERIZON STANDARDS AND SPECIFICATION.

EXISTING NYSEG POLE#2545 – TO BE DISCONNECTED AND REMOVED BY NYSEG



SECTION A–A
NTS

100% DESIGN SUBMISSION

								CONFORMED					
							2/10/20	REVISED LAYOUT FOR NYSEG RISER POLE					
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD		
		REVISIONS						REVISIONS					

DESIGNED O. TINEO
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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
STATION LEVEL
POWER MODIFICATION PLAN

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. E-100
SHEET 46 OF 76

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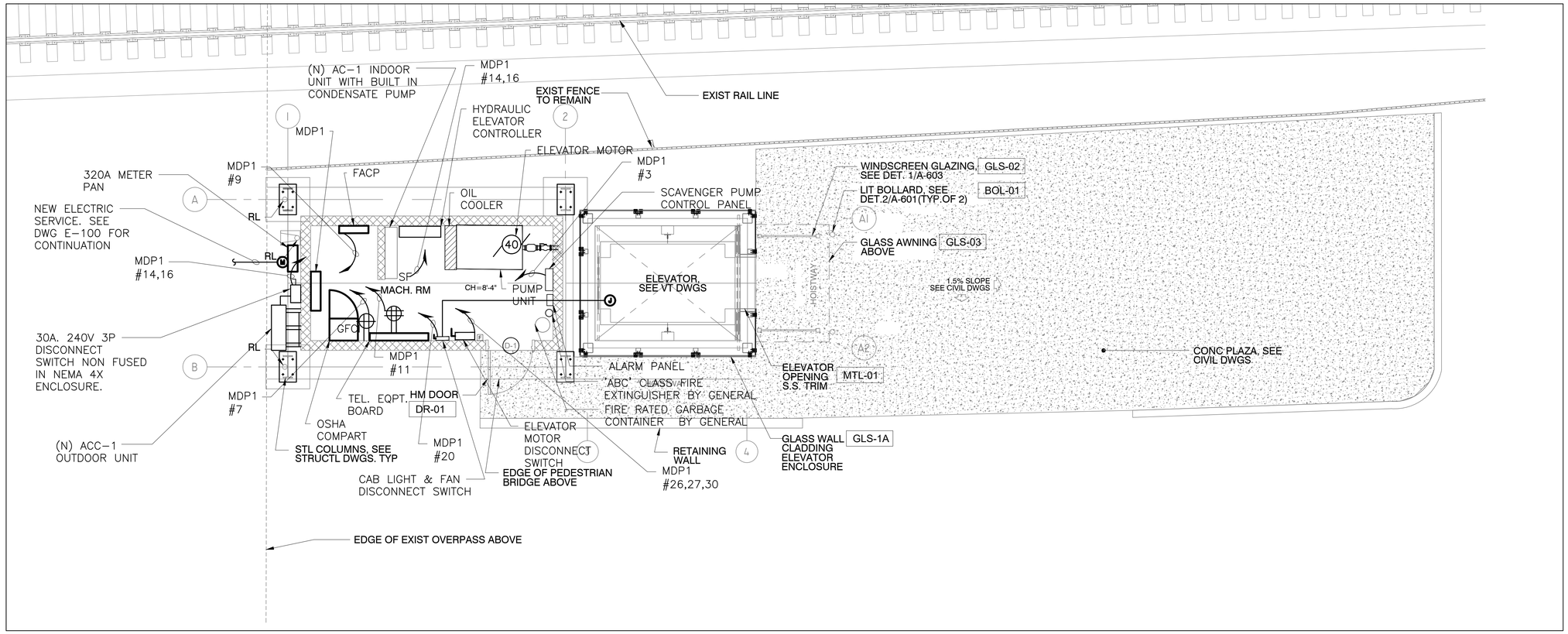
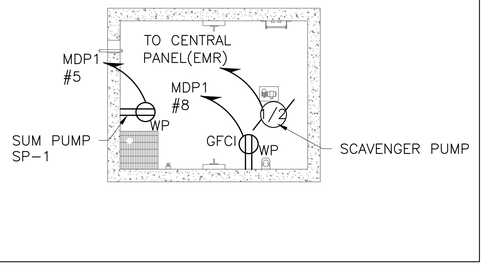


1 E-200 ELECTRICAL STATION LEVEL NEW ELEVATOR MACHINE ROOM POWER PART PLAN

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

0' 4' 8'

1/4"=1'-0"



2 E-200 ELECTRICAL ELEVATOR PIT POWER PART PLAN

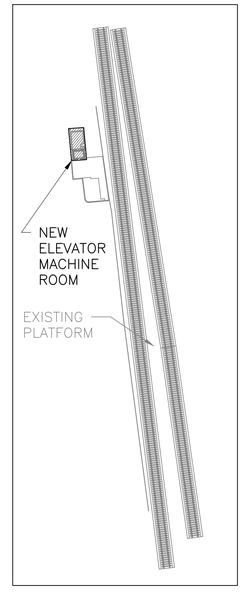
SCALE: 1/4"=1'-0"

0' 4' 8'

1/4"=1'-0"

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E-001.
2. PROVIDE ELEVATOR DISCONNECT SWITCH EQUIPPED WITH AN ELECTRICAL INTERLOCK KIT WITH A 'NO' & 'NC' CONTACTS FOR CONNECTION TO THE AUTOMATIC LOWERING DEVICE.
3. FOR MECHANICAL EQUIPMENT LOCATION SEE DRAWING M-201.
4. ELECTRICAL EQUIPMENT LOCATIONS AND CONDUITS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE VERIFIED IN FIELD.



STATION LEVEL

0' 64' 128'

1/64"=1'-0"

100% DESIGN SUBMISSION

DESIGNED	O. TINEO
DRAWN	O. TINEO
CHECKED	A. LAMPA, P.E.
APPROVED	A. GULERIA, P.E.

STATE OF NEW YORK ★ ARGONAUM SINGH GULERIA ★ 070008 ★ LICENSED PROFESSIONAL ENGINEER

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

CONFORMED

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347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
STATION LEVEL NEW ELEVATOR MACHINE ROOM POWER PART PLAN

CONTRACT NO. 1000106733

SCALE: AS NOTED | DATE: 11-20-2019

DRAWING NO. E-200

SHEET 47 OF 76

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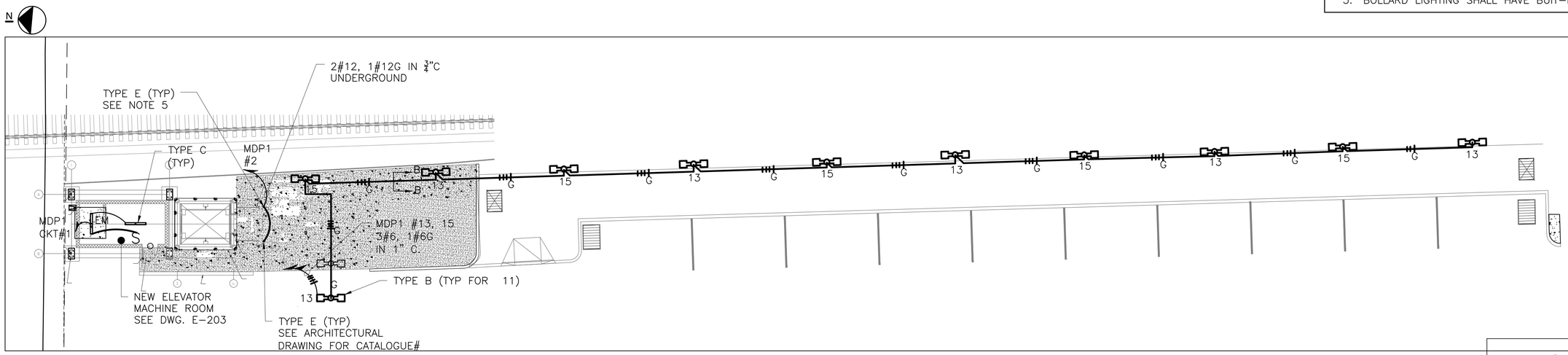
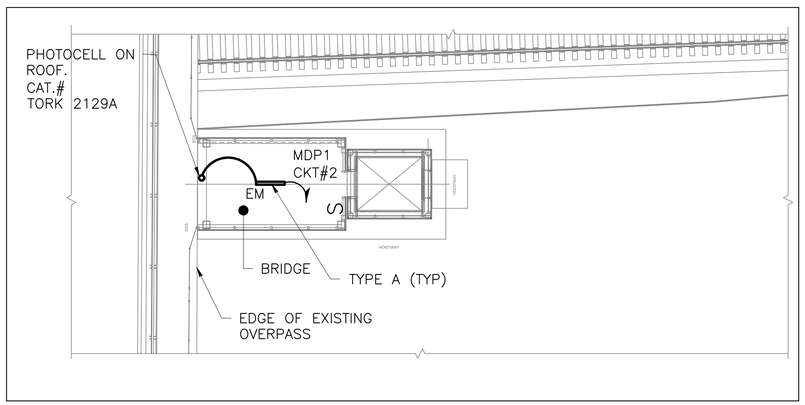
NOTES:

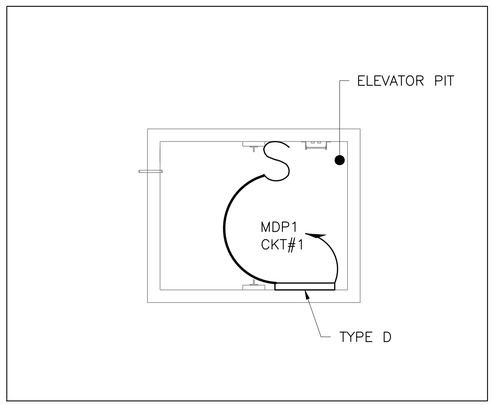
1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E–001.
2. FOR LIGHTING FIXTURE SCHEDULE, SEE DRAWING E–001.
3. ELECTRICAL EQUIPMENT LOCATIONS AND CONDUITS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE VERIFIED IN FIELD.
4. FOR LOCATION OF MDP1, SEE DRAWING E–200.
5. BOLLARD LIGHTING SHALL HAVE BUIT–IN PHOTOCELL.



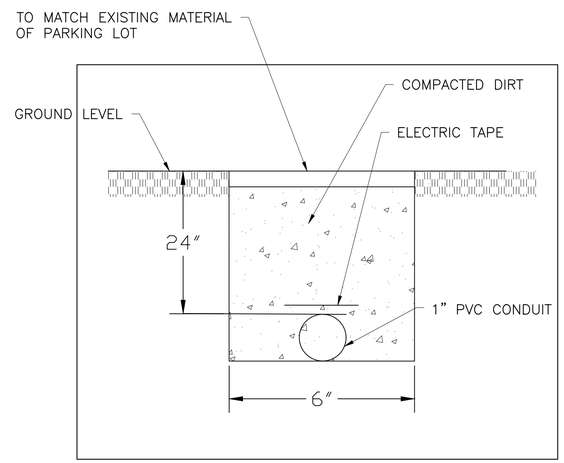
1 / E–201 ELECTRICAL STATION LEVEL LIGHTING PART PLAN
SCALE: 3/32"=1'–0"
0' 12' 24'
3/32"=1'–0"



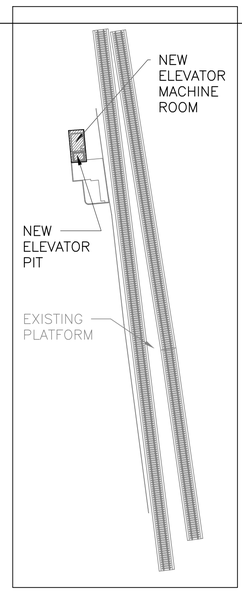
2 / E–201 ELECTRICAL OVERPASS LEVEL LIGHTING PART PLAN
SCALE: 3/32"=1'–0"
0' 12' 24'
3/32"=1'–0"



3 / E–201 ELECTRICAL ELEVATOR PIT LIGHTING PART PLAN
SCALE: 1/4"=1'–0"
0' 4' 8'
1/4"=1'–0"



SECTION B–B
NTS



STATION LEVEL
0' 64' 128'
1/64"=1'–0"

100% DESIGN SUBMISSION

DESIGNED	O. TINEO
DRAWN	O. TINEO
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APPROVED	A. GULERIA, P.E.

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		REVISIONS			

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
LIGHTING
PART PLANS

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO. E-201
SHEET 47A OF 76

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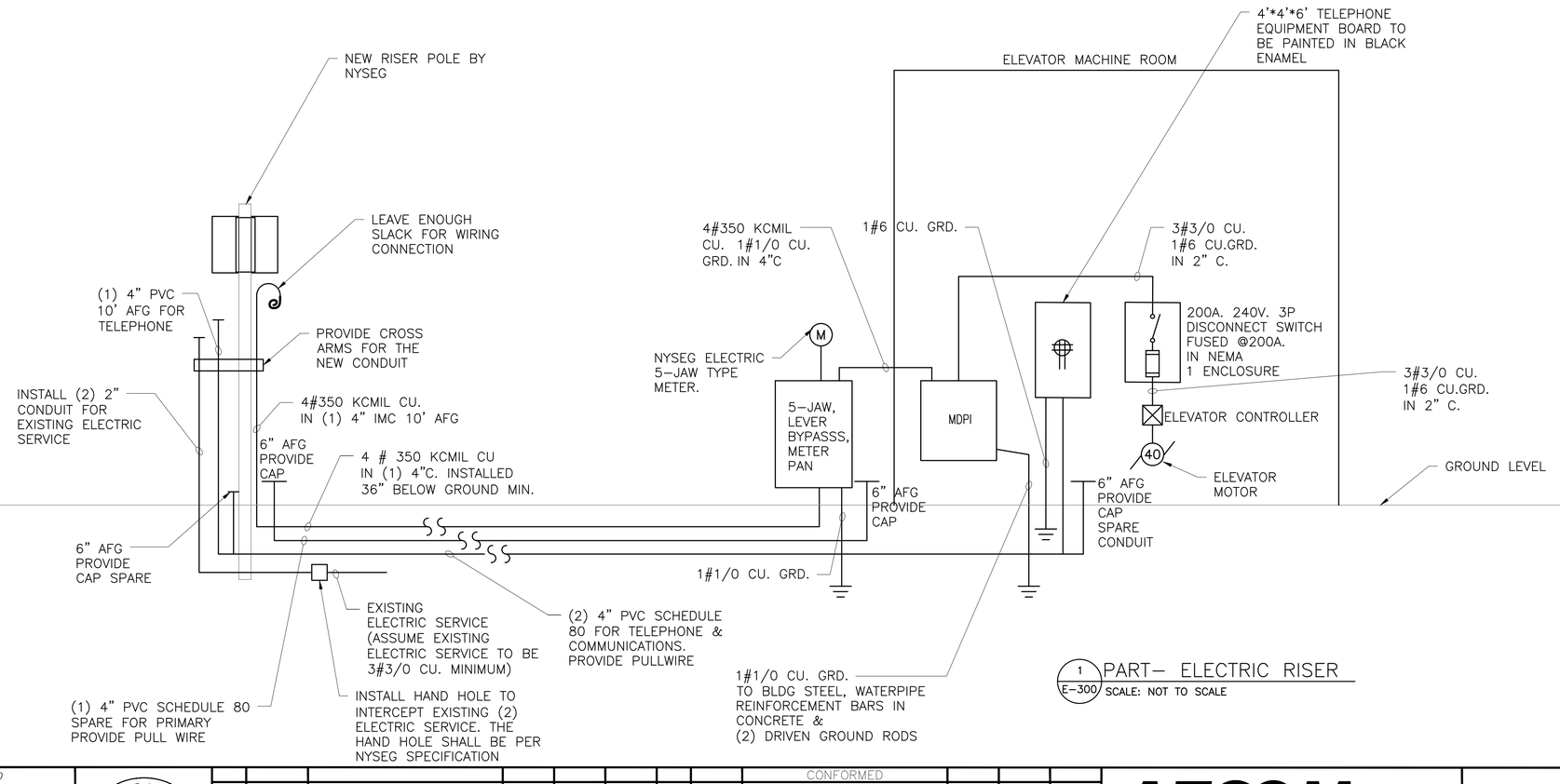

1 E-300 PART- ELECTRIC RISER
SCALE: NOT TO SCALE

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING E-001.
2. FURNISH AND INSTALL NEW EQUIPMENT ONLY SHOWN WITH HEAVY LINES UNDER THIS CONTRACT. LIGHT LINES ARE EXISTING EQUIPMENT TO REMAIN.
3. PROVIDE ELEVATOR DISCONNECT SWITCH EQUIPPED WITH AN ELECTRICAL INTERLOCK KIT WITH A 'NO' & 'NC' CONTACTS FOR CONNECTION TO THE AUTOMATIC LOWERING DEVICE.
4. THE CONTRACTOR SHALL PROVIDE ALL SUPPORT REQUIRED BY NYSE&G TO UPGRADE THEIR SERVICE CABLES AS PER THEIR SERVICE LAYOUTS.

100% DESIGN SUBMISSION

DESIGNED	O. TINEO
DRAWN	O. TINEO
CHECKED	A. LAMPA, P.E.
APPROVED	A. GULERIA, P.E.

STATE OF NEW YORK ARGUNAM SINGH GULERIA 070408 LICENSED PROFESSIONAL ENGINEER

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE		DRWN	CHKD	APPVD

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
NEW
RISER DIAGRAM

CONTRACT NO.	1000106733
SCALE	NONE
DATE	11-20-2019
DRAWING NO.	E-300
SHEET	48 OF 76

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NEW PANEL
MDP1

PANEL DESIGNATION: MDP1 | MFG: SQ–D | LOCATION: NEXT TO NEW ELEVATOR MACH. RM.
SERVICE VOLTAGE: 120/208V | TYPE: NQOD
BUS RATING: 250A | DRAWING NO.: E–203 | MOUNTING: SURFACE
MAIN CIRCUIT BREAKER: 250A | ENCLOSURE: NEMA 4X | INTERRUPTING CAPACITY: 65,000

CKT	DESCRIPTION	BREAKER POLE	BREAKER AMP	VOLTAMPS A	VOLTAMPS B	VOLTAMPS C	CKT
1	EMR AND ELEV. P.T LTG	1	20	300			1
3	SCAVANGER PUMP	1	20		1200		3
5	SUMP PUMP SP–1	1	20			1200	5
7	EMR RECEPT.	1	20	180			7
9	FACP	1	20	500			9
11	TEL. EQPT. BOARD	1	20			500	11
13	POLE MTD LIGHT.	1	20	908			13
15	POLE MTD LIGHT.	1	20		908		15
17	SPARE	1	20			––	17
19	CCTV (NOTE 7)	1	20	500			19
21	SPARE	1	20		––		21
23	SPACE					––	23
25	SPACE			––			25
27	SPACE				––		27
29	SPACE					––	29
				2388	2108	1700	

BUS

CKT	VOLTAMPS A	VOLTAMPS B	VOLTAMPS C	BREAKER AMP	BREAKER POLE	DESCRIPTION	CKT
2	300			20	1	BRIDGE AND BOLLARD LIGHTING.	2
4		––		20	1	SPARE	4
6			––	20	1	SPARE	6
8	500			20	1	ELV. PIT GFCI RECEPTACLE	8
10		62		20	2	AC–1	10
12			62				12
14	2745			25	2	ACC–1	14
16		2745					16
18			1000	20	1	HEAT.TRACING(NOTE 5&6)	18
20	1200			20	1	ELEV. CAB. LTS. & FAN	20
22		––		20	1	SPARE	22
24			––	20	1	SPARE	24
26	14400			200	3	ELEVATOR MOTOR	26
28		14400					28
30			14400				30
	19145	17207	15462				

NEW LOAD:
PHASE A: 21533VA
PHASE B: 19315VA
PHASE C: 17662VA
(N) TOTAL: 58010VA

TOTAL LOAD:
AMPS: 179.4A

NOTES:

1. ALL OTHER 20/1 CIRCUIT– PROVIDE 2#12, 1#12G IN 3/4"C EXCEPT OTHERWISE NOTED.
2. AC–1. PROVIDE 2#12, 1#12G IN 3/4"C.
3. ACC–1. PROVIDE 2#10, 1#12G IN 3/4"C.

NOTES:

1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DWGS. E–001
2. ALL BRANCH BREAKERS MANUFACTURER SHALL BE SQ–D OR APPROVED EQUAL AND RATING SHALL BE AS PER SHORT CIRCUIT CURRENT SHOWN ON PANELS.
3. 20/1–GFI C.B. PROVIDE 2#10, 1#10G IN 3/4" C. SEE PLUMBING DRAWINGS FOR LOCATION OF HEAT TRACING PANEL.
4. PROVIDE "LOCK OUT AND TAG OUT PROTECTION" FOR THIS BREAKER.
5. THE CIRCUIT BREAKER CONNECTED TO "HEAT TRACKING" SYSTEM SHALL BE "GFI" TYPE.
6. PROVIDE 2–#10, 1#10G IN 3/4"C FOR HEAT TRACING. SEE PLUMBING DRAWING FOR LOCATION OF HEAT TRACING OF SEWAGE PIPE.
7. PROVIDE 2–#12, 1#12G IN 3/4"C FOR CCTV EQPT. SEE COMMUNICATION DRAWINGS.
8. PROVIDE 2–#12, 1#12G IN 3/4"C FOR ACCESS CONTROL SYSTEM. SEE COMMUNICATION DRAWINGS.

100% DESIGN SUBMISSION

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DRAWN O. TINEO
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STATE OF NEW YORK ARGONAM SINGH GULERIA LICENSED PROFESSIONAL ENGINEER 070408

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PANEL SCHEDULES

CONTRACT NO. 1000106733
SCALE NONE | DATE 11-20-2019
DRAWING NO. E-400
SHEET 49 OF 76

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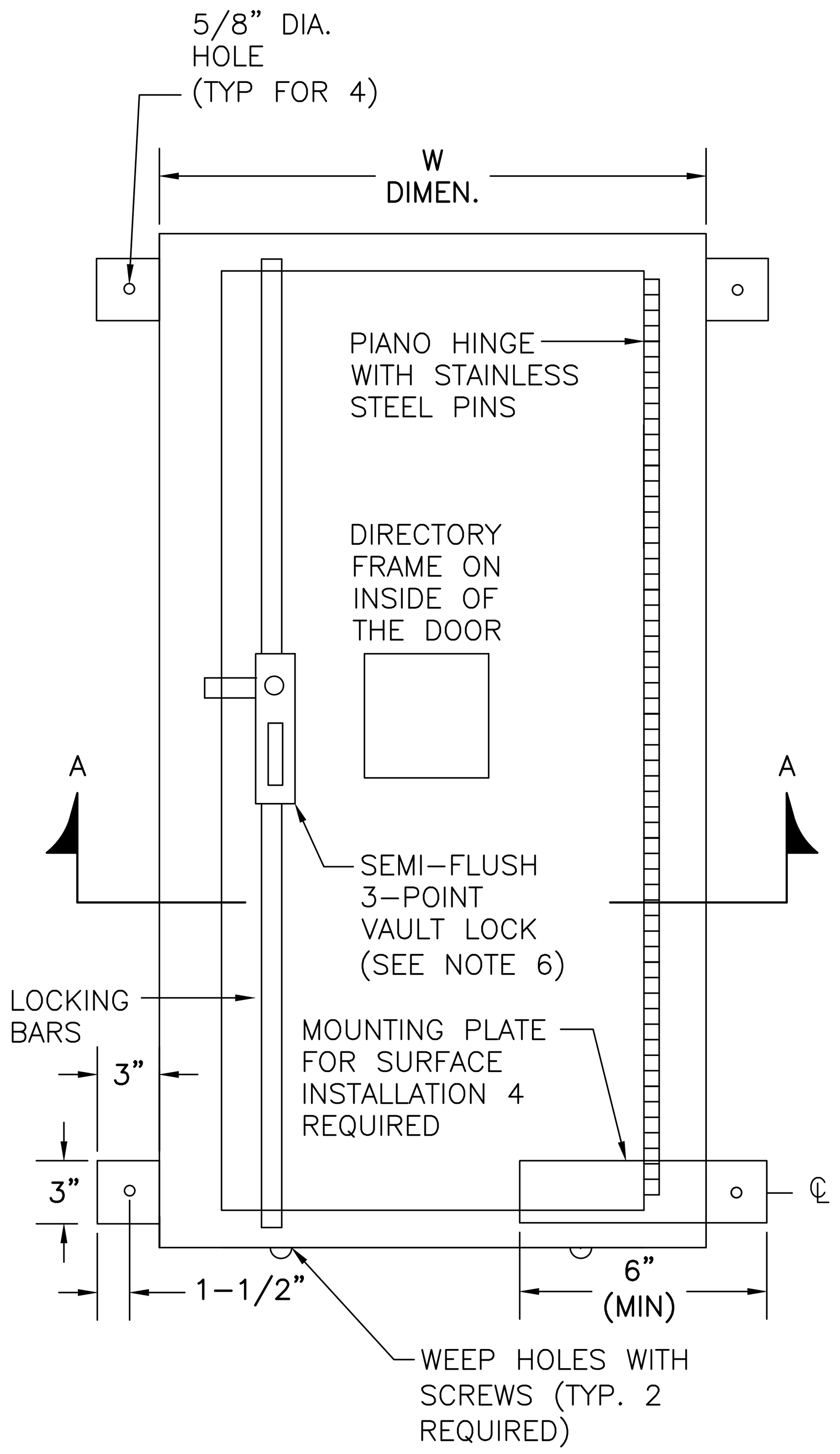
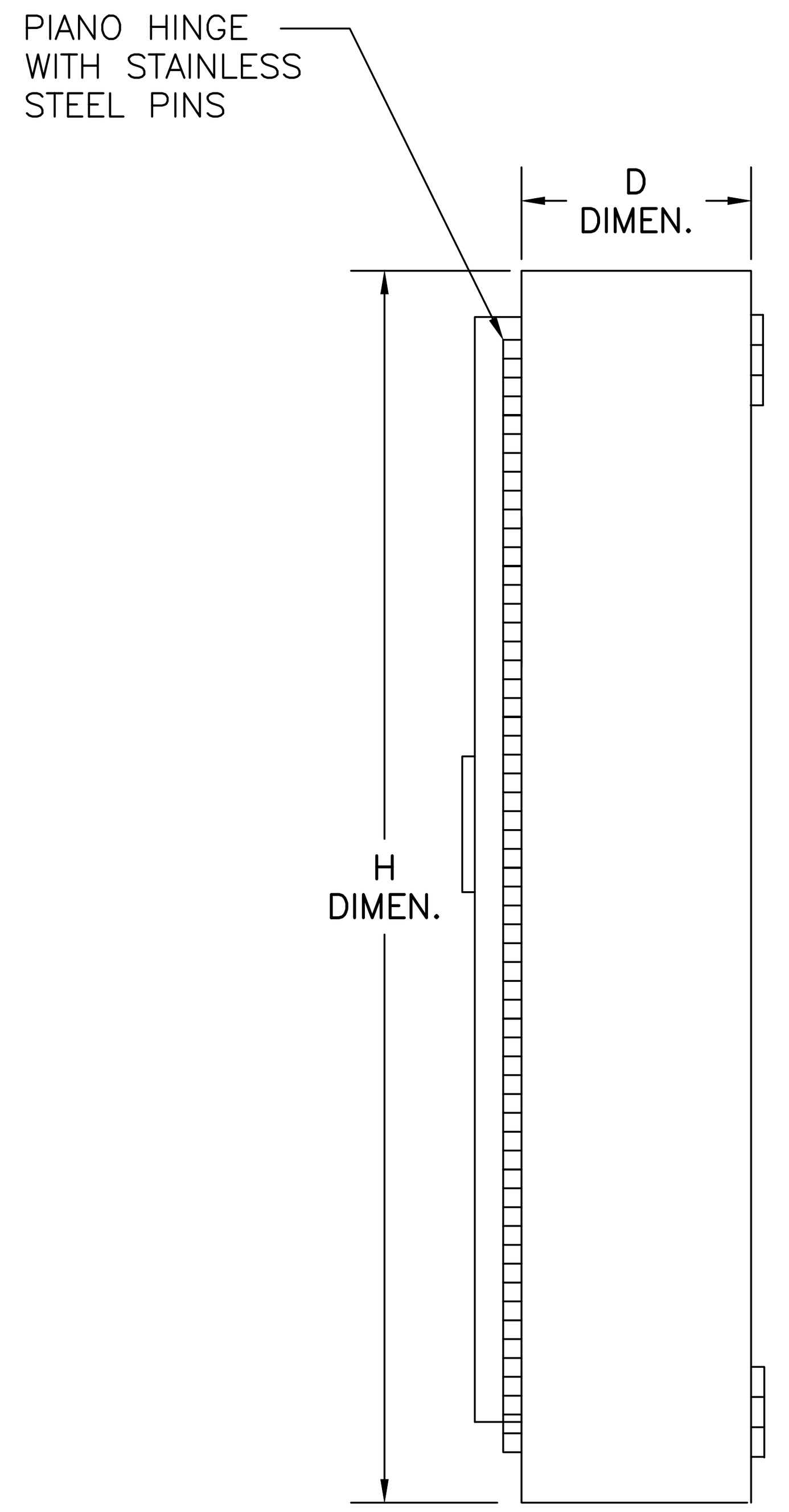
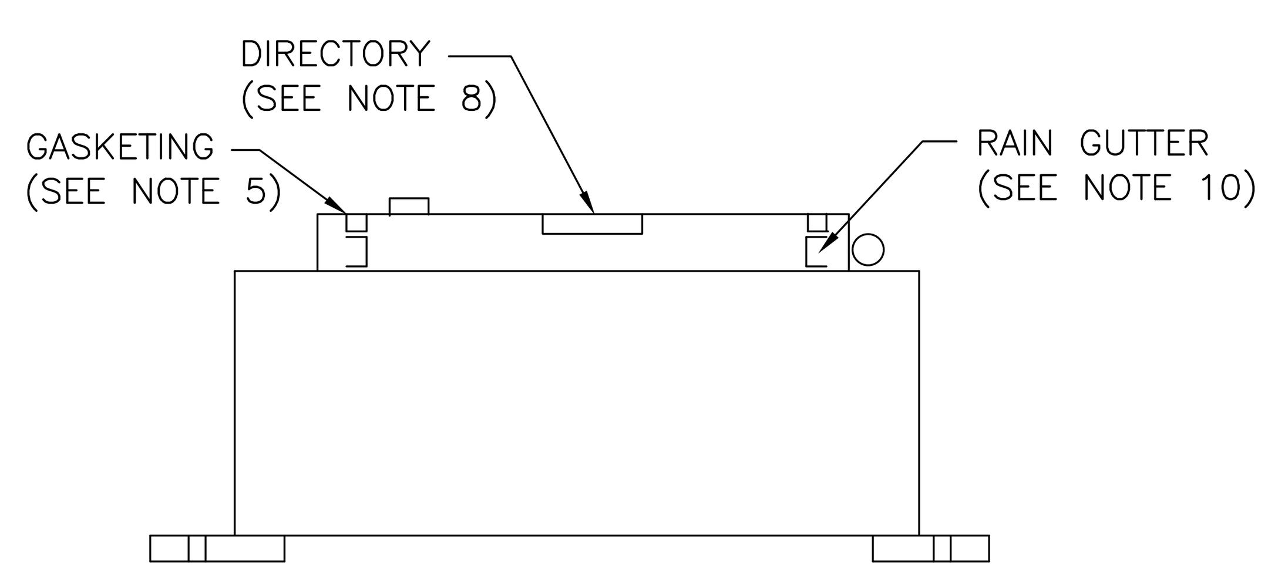


FRONT VIEW



SIDE VIEW



SECTION 'A'

1 / E-500 ONE DOOR PANEL
SCALE: NOT TO SCALE

NOTES – GENERAL

THE PANELBOARD/DISTRIBUTION BOARD BUS AND CIRCUIT BREAKER ASSEMBLY SHALL BE ENCLOSED IN A STEEL OR STAINLESS STEEL CABINET AS SPECIFIED ON CONTRACT DRAWINGS. THE GENERAL REQUIREMENTS ARE:

1. THE SIZE OF THE WIRING GUTTERS SHALL BE IN ACCORDANCE WITH NEMA STANDARD "PB1-977, UL STANDARD 67" AND APPLICABLE NEW YORK CITY AND NATIONAL ELECTRICAL CODE REQUIREMENTS.
2. ENCLOSURE SHALL BE COMBINATION NEMA 12/NEMA 3R OR NEMA 4X, AS SPECIFIED. THE NEMA 12 ENCLOSURE SHALL HAVE A NEMA 3R RATING WHEN THE WEEP HOLE SCREWS ARE REMOVED. WHEN THE WEEP HOLE SCREWS ARE IN PLACE THE ENCLOSURE SHALL HAVE A NEMA 12 RATING.
3. THE ENCLOSURE SHALL HAVE CONTINUOUSLY WELDED SEAMS.
4. HINGES SHALL HAVE STAINLESS STEEL PINS. THE HINGES SHALL BE WELDED TO DOOR AND ENCLOSURE.
5. EXTERIOR DOORS SHALL BE COMPLETELY GASKETED WITH A SELF-ADHESIVE BLACK NEOPRENE SPONGE RUBBER GASKET.
6. EXTERIOR DOORS SHALL BE SECURED BY A COMBINATION 3 POINT LATCH AND LOCK MECHANISM. EMKA #1107-U159-02B WITH A 1109-U2 CYLINDER LOCK, EMKA #333 KEY. MECHANISM SHALL BE SEMI FLUSH MOUNTED WITH NO PROTRUDING PARTS.
7. INTERIOR TRIM SHALL BE SO CONSTRUCTED THAT THE ENCLOSURE SHALL BE ENTIRELY DEAD-FRONT WITH DOOR OPEN.
8. DIRECTORY FRAME SHALL BE WELDED TO INTERIOR OF DOOR BEFORE ELECTROGALVANIZING DOOR. DIRECTORY FRAME SHALL BE COVERED BY A HEAVY GAUGE LUCITE THAT IS BOLTED IN PLACE IN THE DIRECTORY FRAME.
9. DIMENSIONS H, W, AND D TO BE DETERMINED BY THE MANUFACTURER FOR THE TYPE AND NUMBER OF CIRCUIT BREAKERS AND THE GUTTER SPACE REQUIRED.
10. PROVIDE A CONTINUOUS RAIN GUTTER AROUND OPENING TO ACT AS A FLAT SEALING SURFACE FOR THE NEOPRENE GASKETING. 1/2" MINIMUM SURFACE FOR GASKETING SHALL BE PROVIDED.
11. PROVIDE MECHANISM TO LOCK CIRCUIT BREAKERS IN OFF POSITION.
12. THE PHASE ARRANGEMENT ON THREE-PHASE BUSES AND CIRCUIT BREAKERS SHALL BE A, B, C, FROM FRONT TO BACK, TOP TO BOTTOM AND LEFT TO RIGHT, AS VIEWED FROM THE FRONT.
13. PROVIDE GROUND BAR KITS, WELDED INSIDE ENCLOSURE ON THE BACK AT A CONVENIENT LOCATION.
14. PROVIDE TWO GASKETED OVERLAPPING DOORS WHEN ENCLOSURE WIDTH IS MORE THAN 30 INCHES.
15. FOR PANELS LOCATED IN AREAS ACCESSIBLE TO THE PUBLIC, PANELS SHALL BE PROTECTED BY A WIRE ENCLOSURE OR CAGE. ENCLOSURE SHALL BE AT LEAST 3FT WIDE AND HAVE 1FT OF CLEARANCE FROM THE FRONT OF THE PANEL. ENCLOSURE SHALL HAVE A DOOR AT LEAST AS WIDE AS THE PANEL AND SHALL BE SECURED WITH A LOCK. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVAL.

NOTES FOR STEEL ENCLOSURE

1. EXTERIOR PARTS, INCLUDING BOX AND DOOR, SHALL BE ELECTROGALVANIZED AFTER FABRICATION AND WELDING IN PLACE OF APPENDAGES (HINGES, DIRECTORY FRAMES AND MOUNTING STUDS).
2. PAINT SHALL BE APPLIED AFTER CABINET HAS BEEN ELECTRO-GALVANIZED. SEE SPECIFICATIONS FOR DETAILS ON PAINTING.
3. FOR FLUSH MOUNTING, PROVIDE A TEN GAUGE, FOUR PIECE REMOVABLE COLLAR ASSEMBLY.
4. THE EXTERIOR METAL SHALL BE MINIMUM 10 GAUGE.

NOTES FOR STAINLESS STEEL ENCLOSURE

1. THE EXTERIOR METAL SHALL BE MINIMUM 12 GAUGE, TYPE 304 WITH #4 BRUSHED FINISH.
2. FOR FLUSH MOUNTING, PROVIDE A 12 GAUGE, STAINLESS STEEL FOUR PIECE REMOVABLE COLLAR ASSEMBLY.
3. THE ENCLOSURE SHALL NOT BE PAINTED.

100% DESIGN SUBMISSION

DESIGNED O. TINEO
DRAWN O. TINEO
CHECKED A. LAMPA, P.E.
APPROVED A. GULERIA, P.E.

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NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

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TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
DETAILS
SHEET 1 OF 3

CONTRACT NO. 1000106733
SCALE NONE
DATE 11-20-2019
DRAWING NO. E-500
SHEET 50 OF 76

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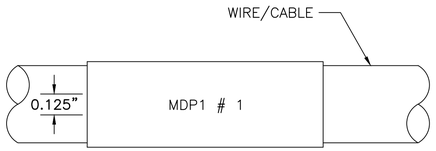
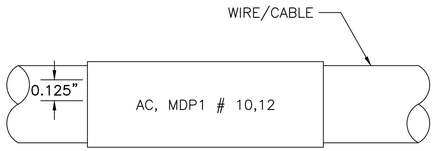


NOTES:

1. EACH CABLE SHALL BE IDENTIFIED WITH WRAPAROUND TYPE SNAP–ON CABLE MARKERS. LETTERING SHALL BE BLACK ON YELLOW BACKGROUND. THE NEUTRAL WIRE SHALL BE MARKED ONLY WHEN THERE ARE MULTIPLE NEUTRALS IN THE SAME PULL/JUNCTION BOX.
2. THE IDENTIFICATION SHALL BE:
   LINE 1: POWER SOURCE–CIRCUIT NUMBER, AND PHASE

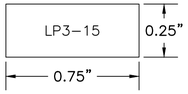
1 E–501 CABLES IN PULL BOX/JUNCTION BOX
SCALE: NOT TO SCALE



NOTES:

1. EACH CABLE SHALL BE IDENTIFIED WITH WRAPAROUND TYPE SNAP–ON CABLE MARKERS. LETTERING SHALL BE BLACK ON YELLOW BACKGROUND. THE NEUTRAL WIRE SHALL BE MARKED ONLY WHEN THERE ARE MULTIPLE NEUTRALS IN THE SAME ELECTRICAL ENCLOSURE.
2. THE IDENTIFICATION SHALL BE:
   LINE 1: DESTINATION, CIRCUIT NUMBER, AND PHASE

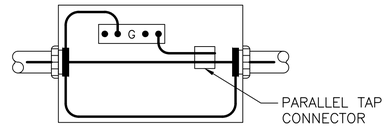
2 E–501 CABLES IN ELECTRICAL ENCLOSURE
SCALE: NOT TO SCALE



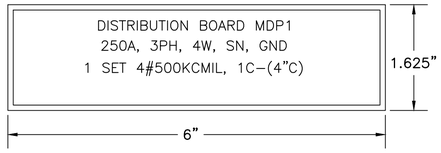
NOTES:

1. EACH LIGHTING FIXTURE, RECEPTACLE, SWITCH AND OTHER ELECTRICAL APPURTENANCE SHALL BE PROVIDED WITH IDENFICATION PLATE TO SHOW ABBREVIATED PANELBOARD DESIGNATION, DASH LINE, AND CIRCUIT NUMBER.
2. IDENTIFICATION PLATES SHALL BE 0.75" X 0.25" MADE UP OF 0.003 INCH THICK ANODIZED ALUMINUM. THE PLATES SHALL BE AFFIXED TO THE INTERIOR OF THE EQUIPMENT WITH A PERMANENT TYPE PRESSURE ADHESIVE. LETTERING SHALL BE BLACK 0.125" AND BE MADE WITH AN IMPACT TYPEWRITER.

3 E–501 NAMEPLATE FOR FEEDER BREAKER/SWITCH
SCALE: NOT TO SCALE



4 E–501 JUNCTION BOX (SHEET METAL ONLY)
SCALE: NOT TO SCALE

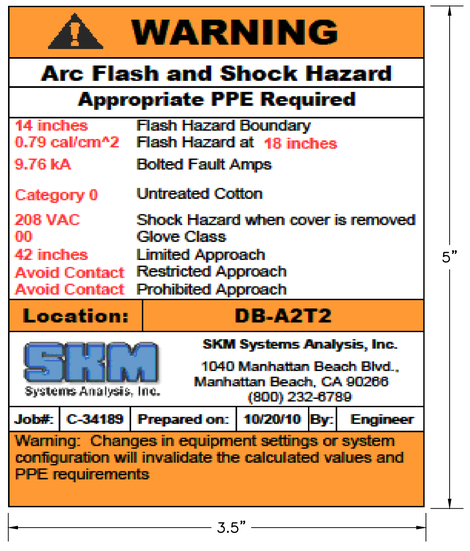


NOTES:

1. ALL ELECTRICAL EQUIPMENT SUCH AS DISTRIBUTION BOARDS, PANELBOARDS, ,DISCONNECT SWITCHES, ENCLOSED BREAKERS, CABINETS, FUSE BOXES, ETC SHALL BE PROVIDED WITH A NAMEPLATE AFFIXED WITH HIGH STRENGTH ADHESIVE TO THE OUTER ENCLOSURE.
2. THE NAMEPLATE SHALL BE ENGRAVED, LAMINATED THERMO–SETTING PLASTIC, 1.625" H X 6" W X 0.125" THICK WITH EDGES BEVELED 0.062 X 45 DEGREES. NAMEPLATE SHALL HAVE COLOR AS SHOWN BELOW WITH FOUR LINES OF 0.25 INCH HIGH CAPITAL LETTERS. THE INSCRIPTION ON EACH LINE SHALL BE AS FOLLOWS:
   LINE 1: EQUIPMENT DESIGNATION
   LINE 2: AMPERE, PHASE, WIRE, HP, WINDINGS, OR OTHER APPLICABLE INFORMATION
   LINE 3: INCOMING FEEDER AND CONDUIT SIZES
   LINE 4: EQUIPMENT DESIGNATION OF SOURCE OF POWER
3. THE NAMEPLATE COLOR SHALL BE AS SHOWN BELOW AND ENGRAVED THROUGH TO THE WHITE CORE:
   A. BLACK FOR 208Y/120VAC
   B. ORANGE FOR 480Y/277VAC
   C. RED FOR 600V AND HIGHER VOLTAGE

   TRANSFORMER NAMEPLATE COLOR SHALL BE SELECTED FOR THE HIGHEST VOLTAGE.
4. ABBREVIATIONS FOR THE INSCRIPTIONS IS PERMITTED ONLY WHEN NUMBER OF CHARACTERS OR LETTERS EXCEEDS THE AVAILABLE LENGTH.

5 E–501 NAMEPLATE FOR ELECTRICAL EQUIPMENT
SCALE: NOT TO SCALE



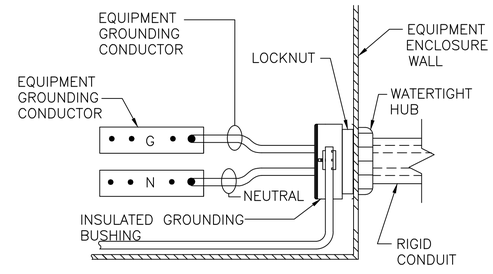
NOTES:

1. ALL NEW ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, AND OTHER SWITCHING EQUIPMENT SHALL HAVE ELECTRIC ARC FLASH PROTECTION LABELS FOR ELECTRICAL SAFETY IN THE WORKPLACE.
2. THE LABELS SHALL SATISFY THE LATEST ISSUE OF NFPA 70E, OSHA AND ANSI Z534.4 REQUIREMENTS AND SHALL BE GENERATED BY SKM SOFTWARE AS ILLUSTRATED.
3. THE LABELS SHALL BE 3.5" WIDE X 5" HIGH MADE OF DURABLE SELF ADHESIVE VINYL AND LOCATED SO THAT IT IS CLEARLY VISIBLE TO QUALIFIED PERSONS.
4. PROVIDE A RED "DANGER" (INSTEAD OF ORANGE "WARNING") ARC FLASH PROTECTION LABEL WHEN INCIDENT ENERGY IS GREATER THAN OR EQUAL TO 40 CAL/SQ CM.

6 E–501 ARC FLASH PROTECTION LABEL
SCALE: NOT TO SCALE

LEGEND:

SYMBOL	DESCRIPTION
▬	SPECIFICATION GRADE INSULATED THREADED GROUNDING BUSHING
– – – –	CON EDISON NEUTRAL
———	EQUIPMENT GROUNDING CONDUCTOR
—G—	GROUNDING ELECTRODE CONDUCTOR
⏚	WATERTIGHT HUB, INSULATED THROAT WITH BONDING LOCKNUT
• • G • •	GROUND BUS
• • N • •	ISOLATED NEUTRAL BUS
⊢	SOLDERLESS COPPER LUG TWO HOLE TYPE
NTS	NOT TO SCALE



7 E–501 ENCLOSURE BONDING
SCALE: NOT TO SCALE

100% DESIGN SUBMISSION

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DRAWN	O. TINEO
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NO.	DATE		DRWN	CHKD	APPVD

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
DETAILS
SHEET 2 OF 3

CONTRACT NO. 1000106733
SCALE NONE
DATE 11-20-2019
DRAWING NO. E-501
SHEET 51 OF 76

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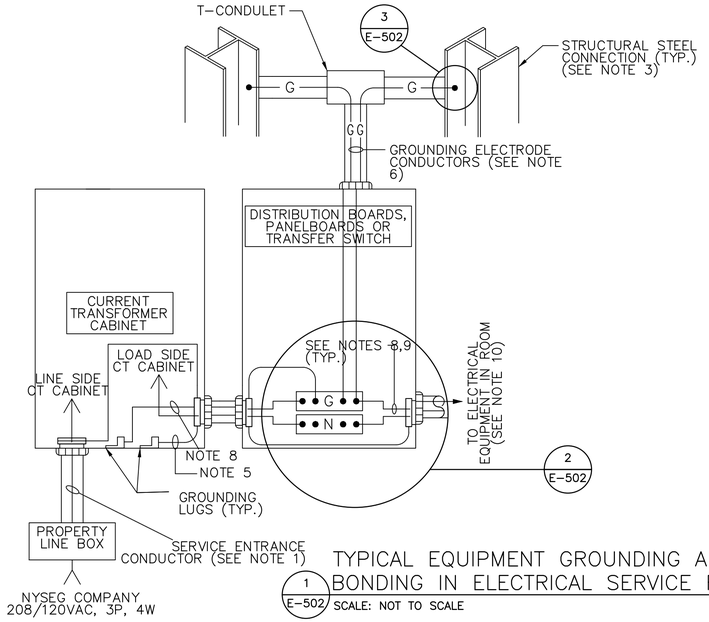
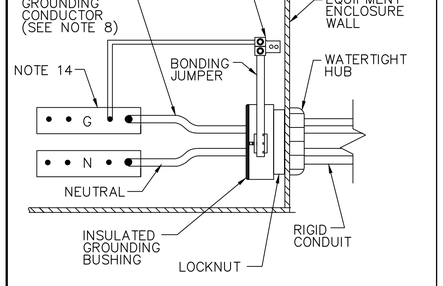


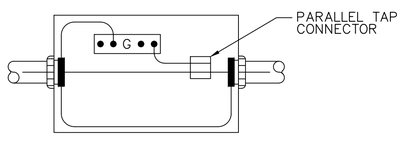
TYPICAL EQUIPMENT GROUNDING AND BONDING IN ELECTRICAL SERVICE ROOM

1 E-502 SCALE: NOT TO SCALE



ENCLOSURE BONDING

2 E-502 SCALE: NOT TO SCALE



GROUNDING FOR JUNCTION BOXES (SHEET METAL ONLY)

3 E-502 SCALE: NOT TO SCALE

GENERAL NOTES:

1. FOR CLARITY, ONLY EQUIPMENT GROUNDING CONDUCTOR (EGC) AND NEUTRAL ARE SHOWN.
2. UTILITY NEUTRAL SHALL NOT BE GROUNDED.
3. PROVIDE TWO STRUCTURAL STEEL CONNECTIONS, AT LEAST TEN FEET APART, IN EACH ELECTRIC SERVICE ROOM (IN ROOM WHERE CON EDISON OR UTILITY CO. SERVICE ENTRANCE CONDUCTORS ENTER AND SERVICE SWITCH IS LOCATED) FOR GROUNDING.
4. PROVIDE ONE STRUCTURAL STEEL CONNECTION FOR EQUIPMENT GROUNDING IN ALL ELECTRICAL EQUIPMENT ROOMS.
5. BOND NON-CURRENT CARRYING METAL PARTS SUCH AS RACEWAYS, TROUGH, METER FITTINGS BOXES AND ENCLOSURES. THE SIZE SHALL BE AS PER TABLE B AND INSTALLED WITHIN THE ENCLOSURE. RUN A CONTINUOUS COPPER BONDING CONDUCTOR FROM ONE CONDUIT BUSHING TO ALL CONDUIT BUSHINGS ENTERING THE ENCLOSURE AND CONNECT THE CONDUCTOR TO A GROUND BUS.
6. THE GROUNDING ELECTRODE CONDUCTOR SHALL BE COPPER WITH GREEN INSULATION AND INSTALLED IN ONE CONTINUOUS LENGTH WITHOUT SPLICES OR JOINTS AND SIZED AS PER TABLE A.
7. THE SIZE OF THE MAIN BONDING JUMPER AND SUPPLY SIDE BONDING JUMPER IN THE SERVICE SWITCH SHALL BE AS PER TABLE A. WHEN MULTIPLE SERVICE ENTRANCE PHASE CONDUCTORS ARE LARGER THAN 1100 KCMIL COPPER, REFER TO LATEST NEC ARTICLE 250-28 FOR SIZES.
8. EGC SHALL BE COPPER WITH GREEN INSULATION AND SIZED AS PER TABLE B. EGC SHALL BE INSTALLED BETWEEN ALL ELECTRICAL EQUIPMENT INCLUDING SERVICE END BOX AND RUN IN THE SAME CONDUIT WITH CIRCUIT CONDUCTORS.
9. CIRCUIT CONDUCTORS:
   - 9.1. WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE TO COMPENSATE FOR VOLTAGE DROP, EGC SIZES SHALL BE INCREASED PROPORTIONATELY ACCORDING TO CIRCULAR MIL AREA. EGC SHALL NOT BE LARGER THAN CIRCUIT CONDUCTORS SUPPLYING THE EQUIPMENT.
   - 9.2. WHERE CIRCUIT CONDUCTORS ARE INSTALLED IN PARALLEL IN MULTIPLE CONDUITS, FULL SIZED EGC SHALL BE PROVIDED IN EACH CONDUIT.
10. PROVIDE EGC FOR ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, SIZED PER TABLE B.
11. ALL GROUNDING CONNECTIONS SHALL BE READILY ACCESSIBLE AND MADE IN A MANNER THAT WILL ENSURE AN EFFECTIVE GROUNDING CONNECTION.
12. ALL GROUNDING CONNECTIONS SHALL BE BARE METAL TO BARE METAL. CLEAN CONTACT AREAS FROM PAINT, LACQUER ETC., IF NECESSARY.
13. NOT USED.
14. PROVIDE COPPER EQUIPMENT GROUND BUS OF PROPER SIZE AND QUANTITY OF LUGS IN ALL SHEET METAL JUNCTION BOXES, SWITCHBOARDS, DISTRIBUTION BOARDS, PANELBOARDS, AUTOMATIC TRANSFER SWITCHES, AND SAFETY SWITCHES (200A AND LARGER). THE GROUND BUS SHALL BE BOLTED ON CLEAN SURFACE OF SUITABLY SIZED STEEL BRACKET. THE BRACKET SHALL BE WELDED TO THE ENCLOSURE BEFORE GALVANIZING. THE CONTACT SURFACE SHALL BE KEPT CLEAN DURING PAINTING.
15. TROUGH GROUNDING SHALL BE AS RECOMMENDED BY THE MANUFACTURER. A SEPARATE EGC SHALL BE PROVIDED.
16. PROVIDE ONE STRUCTURAL STEEL CONNECTION FOR TRANSFORMER GROUNDING. SEE STANDARD DRAWING E-2022.

LEGEND:

▬	SPECIFICATION GRADE INSULATED THREADED GROUNDING BUSHING
———	CON EDISON NEUTRAL
———	EQUIPMENT GROUNDING CONDUCTOR
—G—	GROUNDING ELECTRODE CONDUCTOR
⊐⊏	WATERTIGHT HUB, INSULATED THROAT WITH BONDING LOCKNUT
• • G • •	GROUND BUS
• • N • •	ISOLATED NEUTRAL BUS
⊐	SOLDERLESS COPPER LUG TWO HOLE TYPE

100% DESIGN SUBMISSION

								CONFORMED				
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD	
REVISIONS						REVISIONS						

DESIGNED O. TINEO
DRAWN O. TINEO
CHECKED A. LAMPA, P.E.
APPROVED A. GULERIA, P.E.

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MTA Metro-North Railroad
347 Madison Avenue
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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
DETAILS
SHEET 3 OF 3

CONTRACT NO. 1000106733
SCALE NONE
DATE 11-20-2019
DRAWING NO. E-502
SHEET 52 OF 76

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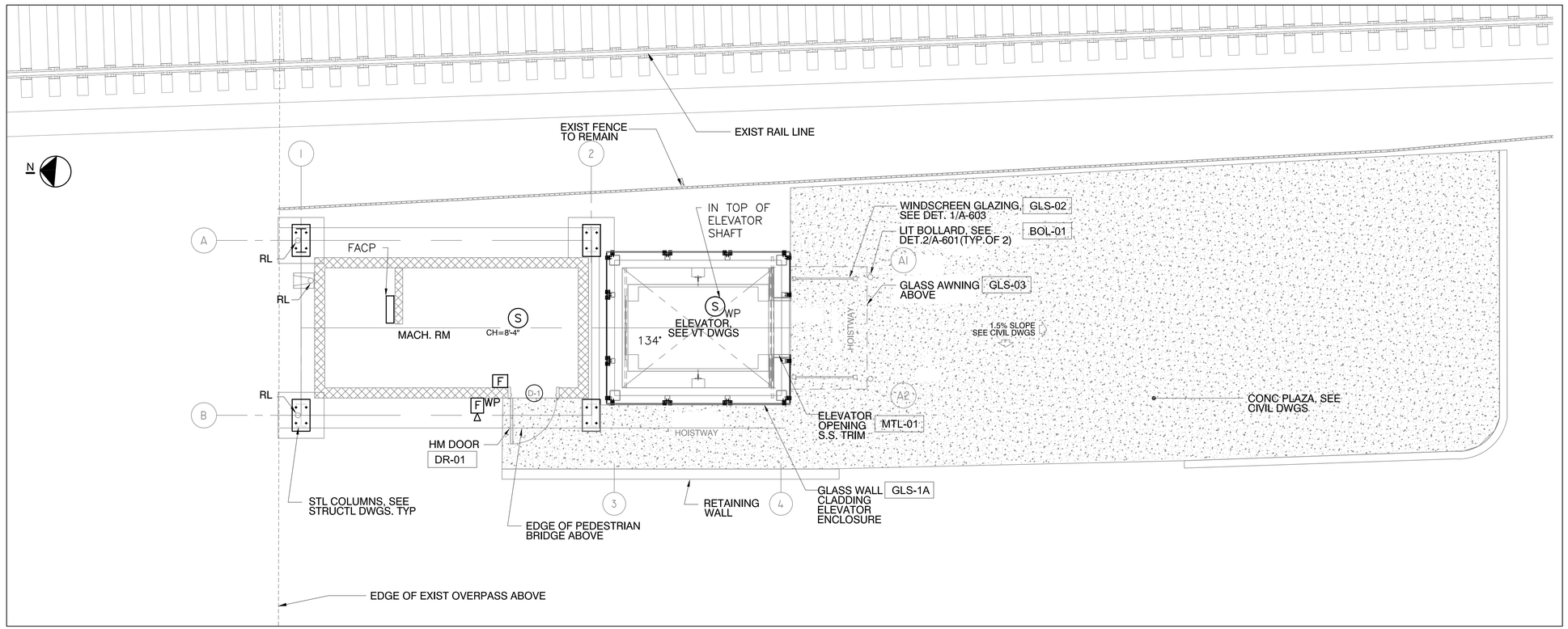


1 FA-101 FIRE ALARM STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN

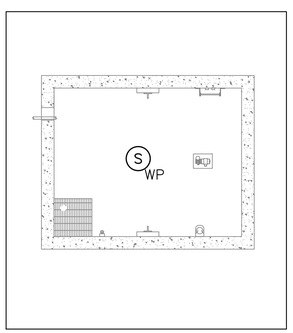
SCALE: 1/4"=1'-0"

0' 4' 8'

1/4"=1'-0"

FIRE ALARM SYMBOL LIST:

- (S) ADDRESSABLE SMOKE DETECTOR
- (H) ADDRESSABLE HEAT DETECTOR
- [F] MANUAL PULL STATION
- [F] STROBE/ HORN COMBO WEATHER PROOF

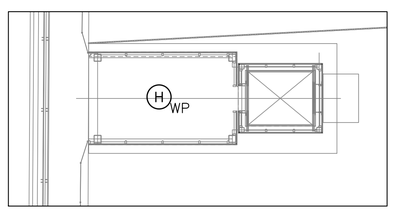


2 FA-101 FIRE ALARM ELEVATOR PIT PART PLAN

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

0' 4' 8'

1/4"=1'-0"

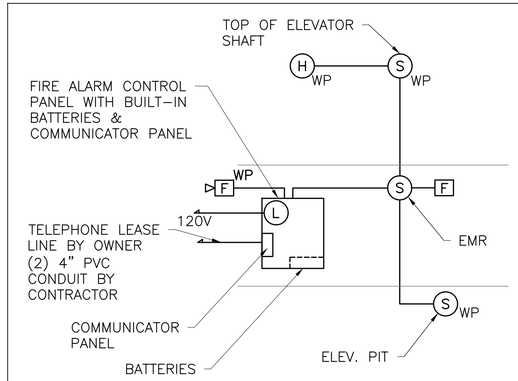


3 FA-101 FIRE ALARM OVERPASS LEVEL PART PLAN

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

0' 12' 24'

3/32"=1'-0"

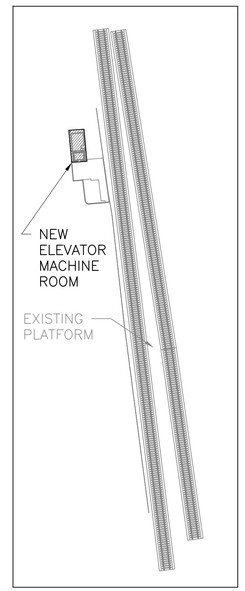


3 FA-101 ELEVATOR PART RISER DIAGRAM

SCALE: NTS

ELEVATOR SHUT DOWN SEQUENCE OF OPERATION:

1. THE ACTIVATION OF THE SMOKE DETECTOR IN THE ELEVATOR SHAFT, ELEVATOR MACHINE ROOM AND ELEVATOR PIT SHALL RECALL ELEVATOR TO THE 1ST FLOOR. OR 2ND FLOOR IF THERE IS A FIRE ON THE FIRST FLOOR
2. ACTIVATION OF THE HEAT DETECTOR IN THE OVERPASS LEVEL SHALL STOP THE ELEVATOR FROM OPENING.



STATION LEVEL

0' 64' 128'

1/64"=1'-0"

100% DESIGN SUBMISSION

DESIGNED	O. TINEO
DRAWN	O. TINEO
CHECKED	A. LAMPA, P.E.
APPROVED	A. GULERIA, P.E.

STATE OF NEW YORK · ARGUNAM SINGH GULERIA · 070408 · LICENSED PROFESSIONAL ENGINEER

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
FIRE ALARM PLAN & RISER DIAGRAM

CONTRACT NO. 1000106733

SCALE: AS NOTED | DATE: 11-20-2019

DRAWING NO. FA-100

SHEET 53 OF 76

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NFPA OPERATIONS MATRIX

LOW RISE TEMPORAL 3 FIRE ALARM SYSTEM FEATURING MANUAL ALARM, SELECTIVE SMOKE DETECTION, SPRINKLER ALARM, CO ALARM, AND COC.

		SYSTEM OUTPUTS										
		Control Unit Annunciation			Notification							
SYSTEM INPUTS		A ACTUATE COMMON ALARM SIGNAL	B ACTUATE AUDIBLE ALARM SIGNAL	C ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	D ACTIVATE VISUAL/AUDIO DEVICES	E DISPLAY/PRINT CHANGE OF STATUS	F TRANSMIT AUTOMATIC ALARM SIGNAL TO SUPERVISING STATION	G TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	H TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	I RECALL ELEVATORS TO GROUND FLOOR, OPEN CAB DOOR	J SHUT DOWN ELEVATOR POWER (SHUNT TRIP)
1	MANUAL FIRE ALARM BOXES	X	X		X	X		X			
2	AREA SMOKE OR HEAT DETECTORS	X	X		X	X	X				
3	ELEVATOR SHAFT, TOP OF SHAFT & MACHINE RM SMOKE DETECTORS	X	X		X	X	X			X	
4	ELEVATOR SHAFT, TOP OF SHAFT & MACHINE RM HEAT DETECTORS	X	X		X	X	X			X	X
5	FIRE ALARM AC FAILURE			X		X			X		
6	FIRE ALARM SYSTEM LOW BATTERY			X		X			X		
7	OPEN CIRCUIT			X		X			X		
8	GROUND FAULT			X		X			X		
9	NOTIFICATION APPLIANCE CIRCUIT SHORT			X		X			X		
10	DRILL SWITCH				X						
		A	B	C	D	E	F	G	H	I	J

100% DESIGN SUBMISSION

DESIGNED O. TINEO
DRAWN O. TINEO
CHECKED A. LAMPA, P.E.
APPROVED A. GULERIA, P.E.

STATE OF NEW YORK ARGUNAM SINGH GULERIA LICENSED PROFESSIONAL ENGINEER 070008

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
FIRE ALARM PLAN
MATRIX SYSTEM

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. FA-101
SHEET 54 OF 76

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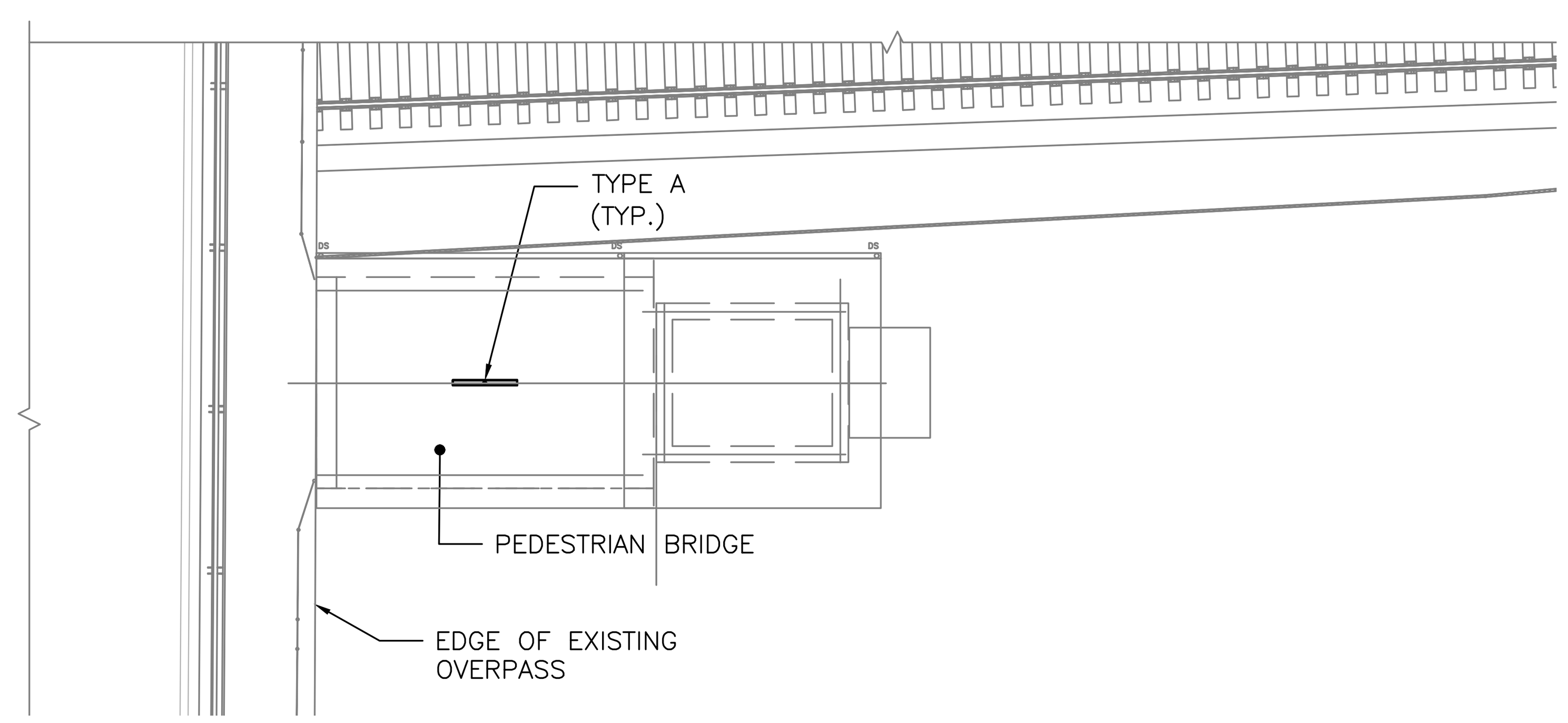
1 (L-101) STATION PROPOSED LIGHTING PLAN - STATION LEVEL

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

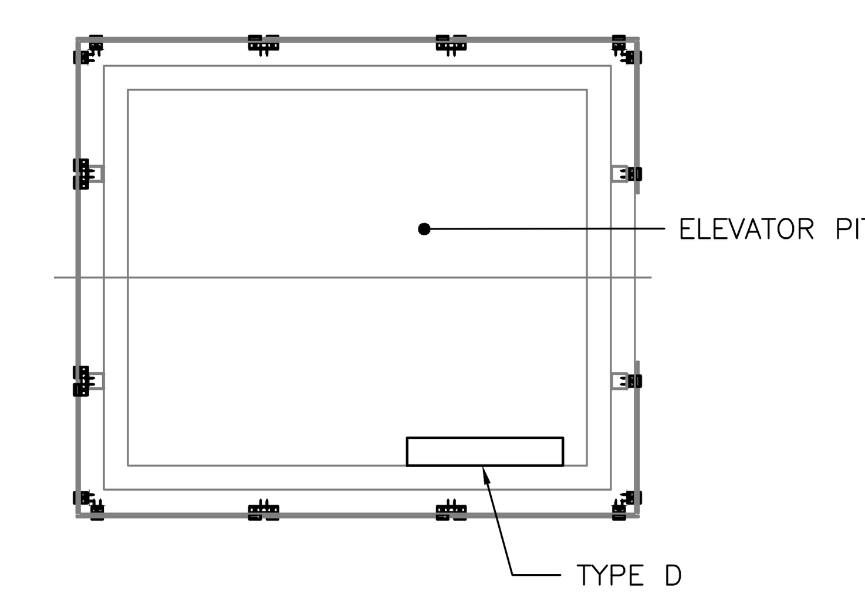
1'0 6' 12' 24'
3/32" = 1'-0"



2 (L-101) STATION PROPOSED LIGHTING PLAN - BRIDGE TO OVERPASS

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

1'0 6' 12' 24'
3/32" = 1'-0"



3 (L-101) STATION PROPOSED LIGHTING PLAN - ELEVATOR PIT

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

0 2' 4' 8'
1/4" = 1'-0"

NOTES:

1. FOR SYMBOL LIST, NOTES AND ABBREVIATIONS SEE DWG. E-001.
2. NEW EXTERIOR LED LIGHTING POLE FIXTURE AT THE STATION LEVEL AND NEW LED LIGHTING FIXTURES LOCATED AT THE BRIDGE LEVEL AND ELEVATOR MACHINE ROOM (EMR) SHALL BE FED FROM EXISTING LIGHTING PANEL.
3. THE AVERAGE ILLUMINATION AND UNIFORMITY RATIO SHALL COMPLY WITH METRO NORTH RAILROADS DESIGN GUIDELINES.
4. PROVIDE LIGHTING CONTACTOR FOR THE BOLLARDS LOCATED AT STATION LEVEL. THE LIGHTING CONTACTORS WILL BE LOCATED ADJACENT TO THE NEW ELECTRICAL PANEL. CONTRACTOR TO PROVIDE AN EXTERNAL MOUNTED PHOTOCELL THAT IS LOCATED AT THE ROOF OF THE BRIDGE.

LIGHTING SCHEDULE

SYMBOL	FIXTURE	DESCRIPTION	LOCATION	MANUFACTURER	CAT. No.	MOUNTING TYPE (APPROXIMATELY)
	TYPE A	KENALL MILLENIUM STRETCH IS AN WET LOCATION LINEAR LED LIGHTING FIXTURE EQUIPPED WITH BODINE BSL36 (C-4405) EMERGENCY BATTERY BACKUP.	BRIDGE	KENALL (OR APPROVAL EQUAL)	TMLHA12-48-R-MW-PP-67L35K-DCC-DV-SEL-SA-SP	SURFACE
	TYPE B	KIM LIGHTING WARP9 2 FIXTURES BACK TO BACK ORIENTATION WITH PHOTOCELL. THE LIGHTING POLE TO BE ROUND EXTRUDED 6061-T6 ALUMINUM TUBING AS PER METRO NORTH RAILROAD STANDARDS. THE LIGHTING POLE TO BE ROUND EXTRUDED 6061-T6 ALUMINUM TUBING WITH AN 6" DIAMETER AS PER METRO NORTH RAILROAD STANDARDS.	STATION LEVEL	KIM LIGHTING (OR APPROVAL EQUAL)	LIGHTING FIXTURE: WPS9-2-E35-60L-3K-120-BL-A30-TL LIGHTING POLE: PRA14-6188-L-BL OR APPROVED EQUAL	12 FOOT POLE
	TYPE C	KENALL SHERIFF SERIES 5 LED LIGHTING FIXTURE EQUIPPED WITH BATTERY PACK	EMR	KENALL (OR APPROVAL EQUAL)	SH5-48-2-45L35K-DCC-1-DV-EL	SURFACE
	TYPE D	LUMINAIRE LED, 30W, 4000K, 120/277V, CP, WHT, WET	ELEVATOR PIT	LUMINAIRE LED (OR APPROVAL EQUAL)	VISION 4: VPF43	SURFACE

LIGHTING LEVELS

LOCATION	AVERAGE ILLUMINANCE (FOOT CANDLES OR FC)	UNIFORMITY RATIO (AVG/MIN)
BRIDGE TO OVERPASS	9.49	2.16
ELEVATOR MACHINE ROOM	23.48	2.08
SIDEWALK	5.97	2.71

100% DESIGN SUBMISSION

DESIGNED	G.P.
DRAWN	L.L.
CHECKED	E.G.
APPROVED	S.K.

STATE OF NEW YORK — EDMUND G. GURTY — LICENSED PROFESSIONAL ENGINEER — 067865

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS — REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY STATION

PROPOSED LIGHTING PLAN

CONTRACT NO. 1000106733
SCALE: AS NOTED
DATE: 11-20-2019
DRAWING NO. L-101
SHEET 55 OF 76

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GENERAL NOTES

1. ALL MATERIALS AND APPARATUS SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NEW YORK STATE BUILDING CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2. BEFORE SUBMITTING PROPOSAL, BIDDERS SHALL CAREFULLY EXAMINE EXISTING FIELD CONDITIONS AND CONTRACT DRAWINGS OF ALL TRADES. SUBMISSION OF PROPOSAL WILL BE CONSTRUCTED AS EVIDENCE THAT REQUIRED EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT AND MATERIALS REQUIRED DUE TO EXISTING FIELD CONDITIONS, WHICH COULD HAVE BEEN FORESEEN, WILL NOT BE RECOGNIZED.
3. PROCUREMENT OF ALL PERMITS AND CERTIFICATES FOR THE INSTALLATION OF THESE SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NEW YORK STATE BUILDING CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER AT NO EXTRA TRADES AND ALL EXISTING CONDITIONS, AND PROVIDE REQUIRED TO OFFSET COST, ALL ADDITIONAL PIPING AND FITTINGS SYSTEM TO AVOID EXISTING/NEW STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
5. ALL EXISTING PIPING IS SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR TO VERIFY IN FIELD ALL SIZES, LOCATIONS AND ELEVATIONS OF ALL NEW POINTS OF CONNECTION TO EXISTING PIPING. COORDINATE HIS WORK WITH ALL OTHER TRADES.
6. CONNECTION TO EXISTING SERVICES SHALL BE PERFORMED DURING OFF–WORK HOURS OR ON WEEKENDS IN PREMIUM TIME. CONNECTION OF NEW WORK TO EXISTING WORK SHALL BE PERFORMED IN NEAT AND APPROVED MANNER, RESTORING EXISTING WORK DISTURBED TO ORIGINAL CONDITION.
7. ALL NEW PIPING SHALL BE RUN CLOSE TO BEAMS, WALLS AND SLABS, SQUARE TO BUILDING CONSTRUCTION, CONCEALED ABOVE HUNG CEILINGS AND WITHIN FURRED SPACES.
8. ALL EXISTING PIPING, INDICATED AND/OR NOTED TO BE REMOVED, SHALL BE REMOVED BACK TO EXISTING STACKS, RISERS OR MAINS AND CAPPED/PLUGGED AT TERMINAL POINT UNLESS OTHERWISE DIRECTED BY OWNER OR ENGINEER.
9. THE CONTRACTOR SHALL NOT INTERRUPT ANY OF SERVICES OF THE EXISTING BUILDING WITHOUT THE EXPRESSED WRITTEN P ERMISSION OF THE OWNER, AND SUCH INTERRUPTIONS SHALL BE AS BRIEF AS POSSIBLE, AND AT THE TIME AGREED TO WITH THE OWNER.
10. UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR, OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP EXCEPT AREAS DESIGNATED BY OWNER.
11. EXISTING PIPING DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT SHALL BE REPAIRED OR REPLACED As REQUIRED WITH MATERIAL AND FINISH TO MATCH EXISTING
12. EXISTING RISER & STACK LOCATIONS ARE BASED UPON ORIGINAL CONSTRUCTION DOCUMENTS. EXACT RISER & STACK LOCATIONS ARE TO BE VERIFIED IN THE FIELD.

DEMOLITION NOTES:

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
2. PROVIDE ONE YEAR GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL.
3. NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC., SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
4. REMOVAL OF EXISTING EQUIPMENT SHALL BE COORDINATED WITH REMOVAL OR RELOCATION OF EXISTING CEILINGS AND PARTITIONS.
5. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES OF ALL DEBRIS RESULTING FROM REMOVAL OF PLUMBING WORK.
6. THIS CONTRACTOR SHALL PATCH AND FIRE PROOF ALL OPENINGS IN FLOORS OR WALLS AS REQUIRED.
7. THIS CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATION OF ALL EXISTING MAIN STACKS AND RISERS AND CONNECTIONS FROM EXISTING FIXTURES.
8. NO "DEAD ENDS" SHALL BE LEFT ON ANY DRAINAGE PIPING UPON COMPLETION OF WORK.
9. ALL CHOPPING OF FLOORS OR WALLS TO BE DONE ON AN OVERTIME BASIS.
10. THE CONTRACTOR SHALL NOT INTERRUPT ANY OF THE SERVICES OF WITHOUT THE EXPRESSED PERMISSION, IN WRITING, OF THE BUILDING MANAGER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME STATED BY THE BUILDING MANAGER.
11. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
12. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED ON THE SITE.

PLUMBING INSTALLATION CRITERIA:

EACH BIDDER SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.

1. COORDINATE POSITION OF SLEEVES AND OPENINGS THROUGH FLOOR WITH THE GENERAL CONTRACTOR.
2. ALL PIPING AND EQUIPMENT SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. HANGER AND SUPPORTS SHALL BE SPECIFICALLY APPROVED FOR USE IN PLUMBING SYSTEMS.
   A. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF HANGER RODS IN REQUIRED LOCATIONS, PROVIDE ADDITIONAL STEEL FRAMING AS REQUIRED AND APPROVED.
   B. NO PLUMBING PIPING SHALL BE HUNG FROM THE PIPING OF OTHER TRADES OR DUCTWORK. HANGERS SHALL BE OF HEAVY CONSTRUCTION SUITABLE FOR THE SIZE OF PIPE TO BE SUPPORTED.
3. ALL HORIZONTAL PIPING RUNS WILL BE AT THE HIGHEST PRACTICAL ELEVATION AND NOT LESS THAN 6" ABOVE THE FLOOR SO AS TO PROVIDE CLEARANCE.

ABBREVIATIONS:

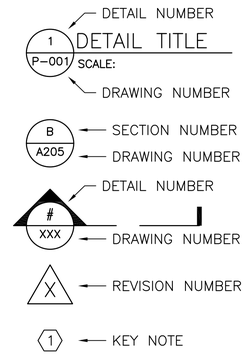
AD	ACCESS DOOR	V	VENT PIPING
AFF	ABOVE FINISHED FLOOR	W	WASTE PIPING
APPROX	APPROXIMATE	WCO	WALL CLEANOUT
ARCH	ARCHITECTURAL	W/	WITH
BLDG	BUILDING		
COPD	CLEANOUT DECK PLATE	VPO,SPO,CWPO	VENT/SANITARY/ COLD WATER/ PLUGGED OUTLET
CF	CUBIC FOOT		
CLG	CEILING		
CW	COLD WATER		
DWG	DRAWING		
DN	DOWN		
(E)	EXISTING TO REMAIN		
ELEV	ELEVATION		
EM	EMERGENCY		
ER	EXISTING TO BE REMOVED		
EQUIP	EQUIPMENT		
FBO	FURNISHED BY OTHERS		
FUD	FUNNEL DRAIN		
GEN	GENERAL		
GPM	GALLONS PER HOUR		
HW	HOT WATER		
MTD	MOUNTED		
(N)	NEW		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		
(R)	EXISTING TO BE REMOVED		
REQ	REQUIRED		
RM	ROOM		
S	SOIL PIPING		
TBD	TO BE DETERMINED		
UOI	UNLESS OTHERWISE INDICATED		
UON	UNLESS OTHERWISE NOTED		
UOS	UNLESS OTHERWISE SPECIFIED		

SYMBOLS:

SYMBOL	DESCRIPTION
	SANITARY PIPING
	VENT PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO BE ABANDONED
	PIPING UP – PIERCES FLOOR
	PIPING DROP – PIPING DROPS WITHIN STORY HEIGHT
	PIPING RISE – PIPING RISES WITHIN STORY HEIGHT
	BOTTOM OF PIPE TAKE–OFF
	SHUT–OFF VALVE
	CLEANOUT
	CLEANOUT DECK PLATE
	FLOOR DRAIN
	TRAP
	CONNECT TO EXISTING
	HOSE BIBB
	VACUUM BREAKER

NOTE:
SYMBOL LIST AND ABBREVIATIONS PROVIDED FOR CONVINIENCE ONLY. NOT EVERY SYMBOL OR ABBREVIATION IS NECESSARILY USED IN.

REFERENCE SYMBOLS:



100% DESIGN SUBMISSION

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DRAWN	J. PREGO
CHECKED	J.CRESPO
APPROVED	AR. GULERIA, P.E.

STATE OF NEW YORK · ARGUNAM SINGH GULERIA · LICENSED PROFESSIONAL ENGINEER · 070008

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

CONFORMED

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347 Madison Avenue
New York, NY 10017

TITLE: METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
LEGENDS, NOTES AND SYMBOLS

CONTRACT NO.	1000106733
SCALE	NONE
DATE	11-20-2019
DRAWING NO.	P-001
SHEET	56 OF 76

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NOTES:

1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING P–001

SUMP PUMP DISCHARGE NOTES:

1. PROVIDE ELECTRICAL HEAT TRACING ON PUMPED DISCHARGE LINES CONTAINING STANDING WATER.
2. INSULATE ALL HEAT TRACED PUMP DISCHARGE LINES.

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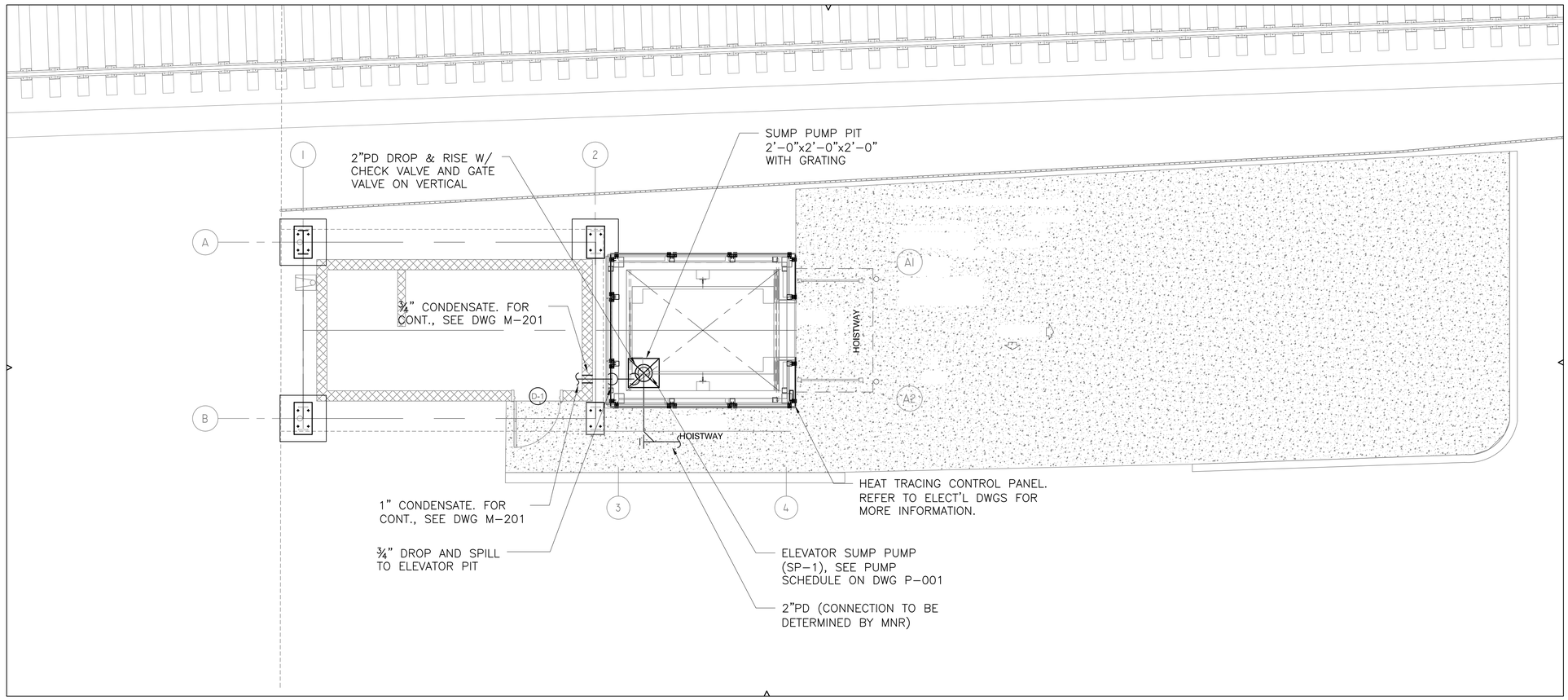
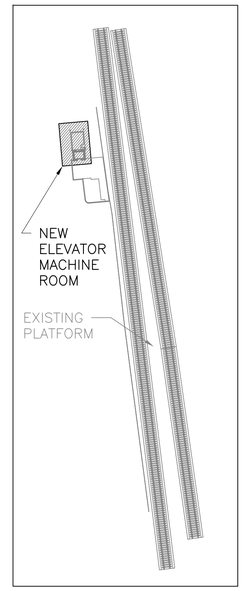


1 P–201 PLUMBING STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN

SCALE: 1/4"=1'–0"

0' 4' 8'
1/4"=1'–0"



STATION LEVEL

0' 64' 128'
1/64"=1'–0"

100% DESIGN SUBMISSION

DESIGNED	J. PREGO
DRAWN	J. PREGO
CHECKED	J. CRESPO
APPROVED	AR. GULERIA, P.E.

STATE OF NEW YORK · ARJANJAI SINGH GULERIA · LICENSED PROFESSIONAL ENGINEER · 070408

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PURDY'S STATION
STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN

CONTRACT NO. 1000106733

SCALE: AS NOTED | DATE: 11-20-2019

DRAWING NO. P-201

SHEET 57 OF 76

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PUMP SCHEDULE													
PUMP NUMBER	LOCATION	TYPE	SERVICE	MANUFACTURER	MODEL	MAX FLOW (GPM)	MAX HD. (FT.)	RPM	MOTOR DATA				REMARKS
									H.P.	PHASE	CYCLE	VOLTS	
SP–1	PASSENGER ELEVATOR	SIMPLEX SUBMERSIBLE PUMP	ELEVATOR PIT	STANCOR	SE50	74	37	1750	½	1	60	115	SIMPLEX OIL SENSING ELEVATOR SUMP PUMP. SINGLE DIRECT PLUG–IN POWER

100% DESIGN SUBMISSION

DESIGNED J. PREGO
DRAWN J. PREGO
CHECKED J.CRESPO
APPROVED AR. GULERIA, P.E.

STATE OF NEW YORK · ARGUNAM SINGH GULERIA · LICENSED PROFESSIONAL ENGINEER · 070908

NO.	DATE		DRWN	CHKD	APPVD

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347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
SCHEDULES

CONTRACT NO. 1000106733
SCALE NOTED
DATE 11-20-2019
DRAWING NO. P-501
SHEET 58 OF 76

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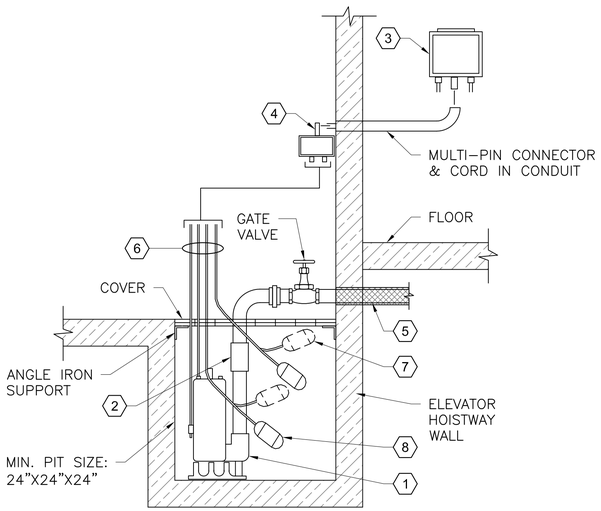

ELEVATION

1 / P–601 ELEVATOR SUMP PUMP DETAIL

SCALE: NOT TO SCALE

KEY NOTES:

1. SUBMERSIBLE SUMP PUMP 1/2 HP, 115 VOLT, 1750 RPM, 2" DISCHARGE CONNECTION
2. CHECK VALVE
3. 115V, SINGLE PHASE (1ø) CONTROL SYSTEM WITH BUILT–IN AUDIBLE AND VISUAL ALARM FOR WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. LIGHTS FOR OIL SPILL, POWER, HIGH LIQUID LEVEL, OVERLOAD, & PUMP RUN.
4. JUNCTION BOX SHALL BE PROVIDED WITH MULTI–PIN CONNECTOR AND CORD OF REQUIRED LENGTHS TO REACH PANEL.
5. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CORROSION PROTECTION TAPE AND PROVIDED WITH HEAT TRACING WHEN PIPE IS BELOW FREEZING. IN ADDITION, DISCHARGE PIPING SHALL CONNECT TO THE SITE DRAINAGE SYSTEM (SEE CIVIL DWGS).
6. OIL–MINDER CABLES: POWER CABLE, PROBE CABLE, HIGH– LIQUID ALARM CABLE AND PUMP–ON FLOAT CABLE.
7. HIGH–LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
8. PUMP–ON FLOAT
9. PROVIDE A MINIMUM FIVE FEET EXTRA OF EACH CABLE (SLACK) ROLLED CLAMPED TO THE DISCHARGE PIPE TO ALLOW FOR THE REMOVAL OF THE PUMP FROM THE PIT.

100% DESIGN SUBMISSION

DESIGNED	J. PREGO
DRAWN	J. PREGO
CHECKED	J. CRESPO
APPROVED	AR. GULERIA, P.E.

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NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE		DRWN	CHKD	APPVD

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TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
DETAILS

CONTRACT NO.	1000106733
SCALE	NONE
DATE	11-20-2019
DRAWING NO.	P-601
SHEET	59 OF 76

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GENERAL

1. ONLY MACHINERY AND EQUIPMENT USED DIRECTLY IN CONNECTION WITH THE ELEVATOR SHALL BE PERMITTED IN ELEVATOR HOISTWAY AND MACHINE ROOM (ASME A17.1, 2.8.1)

2. ALL ELECTRICAL EQUIPMENT PLACEMENT AND INSTALLATION SHALL BE COORDINATED WITH THE ELEVATOR CONTRACTOR AND SHALL NOT BE LOCATED UNTIL ELEVATOR EQUIPMENT IS INSTALLED OR COORDINATION HAS BEEN ARRANGED WITH CONTRACTOR'S EQUIPMENT PLACEMENT.

3. THE MINIMUM CLEAR HEADROOM IN ANY ELEVATOR MACHINE ROOM SHALL BE NO LESS THAN 84".

ELECTRICAL

1. ELEVATOR, ELECTRICAL ENCLOSURES: ALL ELECTRICAL EQUIPMENT, LOCATED LESS THAN 48 IN. ABOVE THE PIT FLOOR, SHALL:
   - BE WEATHERPROOF (NEMA 4).
   - HAVE WIRING IDENTIFIED FOR USE IN WET LOCATIONS IN ACCORDANCE WITH THE REQUIREMENTS IN NEC.

2. ELEVATOR, MAINLINE DISCONNECT / BREAKER: A SINGLE MEANS FOR DISCONNECTING THE MAIN POWER SUPPLY FOR THE UNIT SHALL BE PROVIDED. THE DISCONNECTING MEANS SHALL BE A LISTED DEVICE; EITHER AN ENCLOSED EXTERNALLY OPERABLE FUSED MOTOR CIRCUIT SWITCH OR A CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION AND SHALL BE LOCATED ADJACENT TO THE MACHINE ROOM ACCESS DOOR. A LABEL ON THE DISCONNECT IS REQUIRED TO SHOW THE LOCATION OF THE OVERCURRENT PROTECTION. REFER TO ELECTRICAL DRAWINGS. (NEC 620-51)

3. ELEVATOR, MAINLINE DISCONNECT AUXILIARY CONTACT FOR EMERGENCY LOWERING OPERATION: THIS ITEM IS SUPPLIED BY THE ELECTRICAL CONTRACTOR WITHIN THE MAINLINE DISCONNECT. WHEN AN EMERGENCY LOWERING SYSTEM IS UTILIZED ON A HYDRAULIC ELEVATOR, THERE SHALL BE AN AUXILIARY CONTACT ASSOCIATED WITH THE MAINLINE DISCONNECT IN COMPLIANCE WITH NEC 620-91(C).

4. ELEVATOR, AUXILIARY DISCONNECT: A SEPARATE BRANCH CIRCUIT (SINGLE PHASE) SHALL SUPPLY THE CAR LIGHTS, RECEPTACLES, EMERGENCY LIGHTING, AND VENTILATION IN THE ELEVATOR CAR. IT SHALL BE A LOCKABLE FUSED SWITCH / BREAKER AND SHALL BE LOCATED IN THE ELEVATOR MACHINE ROOM. A LABEL ON THE DISCONNECT IS REQUIRED TO SHOW THE LOCATION OF THE OVERCURRENT PROTECTION. REFER TO ELECTRICAL DRAWINGS. (NEC 620-22(A))

5. ELEVATOR, GFCI RECEPTACLES: GFCI RECEPTACLES SHALL BE REQUIRED IN THE ELEVATOR MACHINE ROOM AND ELEVATOR PIT AREA. (ASME A17.1, NEC 620.23(C) & NEC 620.24(C)) REFER TO THE ELECTRICAL DRAWINGS.

6. ELEVATOR, NON-GFCI RECEPTACLE: A SINGLE, NON-GFCI RECEPTACLE FOR THE SUMP PUMP ON A DESIGNATED CIRCUIT SHALL BE REQUIRED IN THE ELEVATOR PIT. REFER TO ELECTRICAL DRAWINGS. REFER TO MECHANICAL NOTE 1.

7. ELEVATOR, MACHINE ROOM LIGHTING: PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE PROVIDED IN THE ELEVATOR MACHINE ROOM. MINIMUM ILLUMINATION SHALL BE NOT LESS THAN 200LX (19FC) AT THE FLOOR LEVEL AND SHALL BE ADEQUATE TO WORK ON ALL EQUIPMENT WITHOUT SHADOWING. LIGHT SWITCH SHALL BE LOCATED INSIDE THE ROOM, NEAR THE ACCESS DOOR. (ASME A17.1 2.7.9.1.) REFER TO ELECTRICAL DRAWINGS.

8. ELEVATOR, MACHINE ROOM LIGHT SWITCH: LIGHT SWITCHES FOR ELEVATOR MACHINE ROOM SHALL BE LOCATED ADJACENT TO THE JAMB SIDE OF THE MACHINE ROOM ENTRY DOOR. (NEC 620.23(B)) REFER TO ELECTRICAL DRAWINGS.

9. ELEVATOR, PIT LIGHTING: PERMANENTLY INSTALLED LIGHTING SHALL BE PROVIDED IN THE ELEVATOR PIT. MINIMUM ILLUMINATION SHALL BE NOT LESS THAN 100LX (10FC) AT THE PIT FLOOR. BULB(S) SHALL BE EXTERNALLY GUARDED TO PREVENT CONTACT AND ACCIDENTAL BREAKAGE. LOCATIONS SHALL BE COORDINATED WITH ELEVATOR CONTRACTOR SO THAT FIXTURE(S) ARE OUT OF THE WAY OF ALL ELEVATOR EQUIPMENT. (ASME A17.1 2.2.5.) REFER TO ELECTRICAL DRAWINGS.

10. ELEVATOR, PIT LIGHT SWITCH: THE ELEVATOR PIT LIGHT SWITCH SHALL BE A MINIMUM OF 18 IN. ABOVE THE LOWEST LANDING DOOR SILL (A17.1 2.2.6.2) AND ADJACENT TO (NOT BEHIND) THE PIT LADDER (NEC 620.24(B)). REFER TO ELECTRICAL DRAWINGS.

11. ELEVATOR, SEPARATE CIRCUITS (PIT): THE ELEVATOR PIT SHALL HAVE A SEPARATE BRANCH CIRCUIT SUPPLYING THE PIT LIGHTING AND RECEPTACLES, AND ANOTHER FOR THE SUMP PUMP. (NEC 620-24(A)). REFER TO ELECTRICAL DRAWINGS.

12. ELEVATOR, SEPARATE CIRCUITS (MACHINE ROOM): A SEPARATE BRANCH CIRCUIT SHALL SUPPLY THE ELEVATOR MACHINE ROOM LIGHTING AND RECEPTACLES. NEC 620-23(A). REFER TO ELECTRICAL DRAWINGS.

13. ELEVATOR, EMERGENCY POWER: EMERGENCY POWER SHALL BE PROVIDED TO ALL ELEVATOR MACHINE ROOM LIGHTING CIRCUITS AND TO ALL ELEVATOR CAR LIGHTING DISCONNECTS IN THE ELEVATOR MACHINE ROOM. REFER TO ELECTRICAL DRAWINGS.

14. ELEVATOR, FIRE ALARM: A SMOKE DETECTOR SHALL BE PROVIDED INSIDE THE ELEVATOR MACHINE ROOM(S), CONTROL ROOMS, AND/OR MACHINERY SPACES AND AT EACH ELEVATOR LOBBY. IF AMBIENT CONDITIONS PRECLUDE THE USE OF A SMOKE DETECTOR, OTHER DETECTION MEANS MAY BE USED (HEAT DETECTORS).

15. ELEVATOR, CONDUIT RUNS: ALL ELECTRICAL CONDUIT SHALL BE RUN OVERHEAD OR IN A MANNER WHICH DOES NOT RESTRICT ACCESS TO OR AROUND ANY EQUIPMENT.

16. ELEVATOR, PHONE AND DATA: CONDUIT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR IN THE ELEVATOR MACHINE ROOM TO THE ELEVATOR CONTROLLER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FOR BOTH EMERGENCY ELEVATOR PHONE AND REQUIRED DATA LINE TO THE MACHINE ROOM, TO THE CONTROLLER, AND TERMINATED ON THE ELEVATOR CONTROLLER IN COORDINATION WITH THE ELEVATOR CONTRACTOR.

MECHANICAL

1. ELEVATOR, SUMP PUMP: ELEVATOR PIT SHALL BE PROVIDED WITH A SUMP PUMP WITH A CAPACITY OF AT LEAST 3,000 GAL/HR PER ELEVATOR. SUMP PUMP SHALL BE PROVIDED WITH A POSITIVE MEANS TO PREVENT WATER, GASSES, AND ODORS FROM ENTERING THE HOISTWAY (INDIRECT CONNECTION). REFER TO MECHANICAL DRAWINGS. REFER TO ELECTRICAL NOTE 6 FOR POWER.

2. ELEVATOR, MACHINE ROOM HVAC: ELEVATOR MACHINE ROOM ENVIRONMENT SHALL BE MAINTAINED BETWEEN 50ºF - 104ºF WITH NO MORE THAN 95% HUMIDITY NON-CONDENSING. EQUIPMENT SHALL NOT BE INSTALLED DIRECTLY ABOVE ELEVATOR EQUIPMENT.

3. ELEVATOR, TWO WAY COMMUNICATION: PROVIDE TWO-WAY COMMUNICATION FROM THE MACHINE FROM TO EACH ELEVATOR CAB. THE INTERCOM DEVICE SHALL BE CAPABLE OF COMMUNICATING WITH THE HANDS-FREE PHONE IN THE ELEVATOR CAB. A SEPARATE INTERCOM DEVICE IN THE CAB SHALL NOT BE ALLOWED. PROVIDE PERMANENTLY MOUNTED INSTRUCTIONS FOR USE OF THE INTERCOM SYSTEM.

100% DESIGN SUBMISSION

DESIGNED	P. GOMULKA
DRAWN	F. HUANG
CHECKED	E. ROSS
APPROVED	S. YAGHOBI

STATE OF NEW YORK — HEANEY & MONTESANO — LICENSED PROFESSIONAL ENGINEER — 080835

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO.
VT-101
SHEET 60 OF 76

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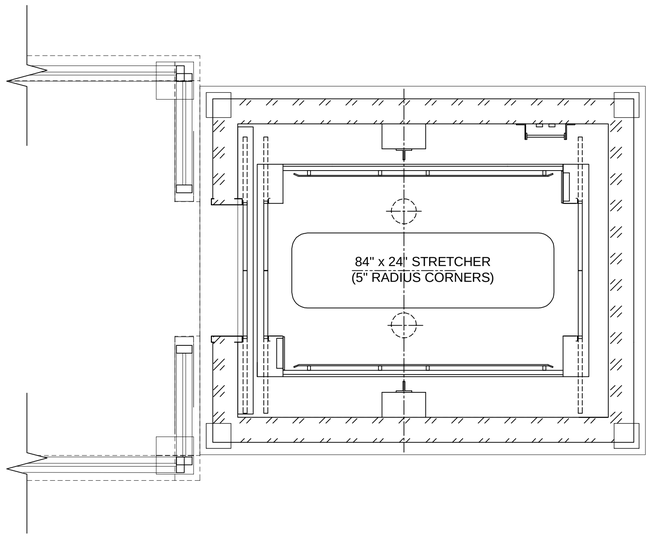
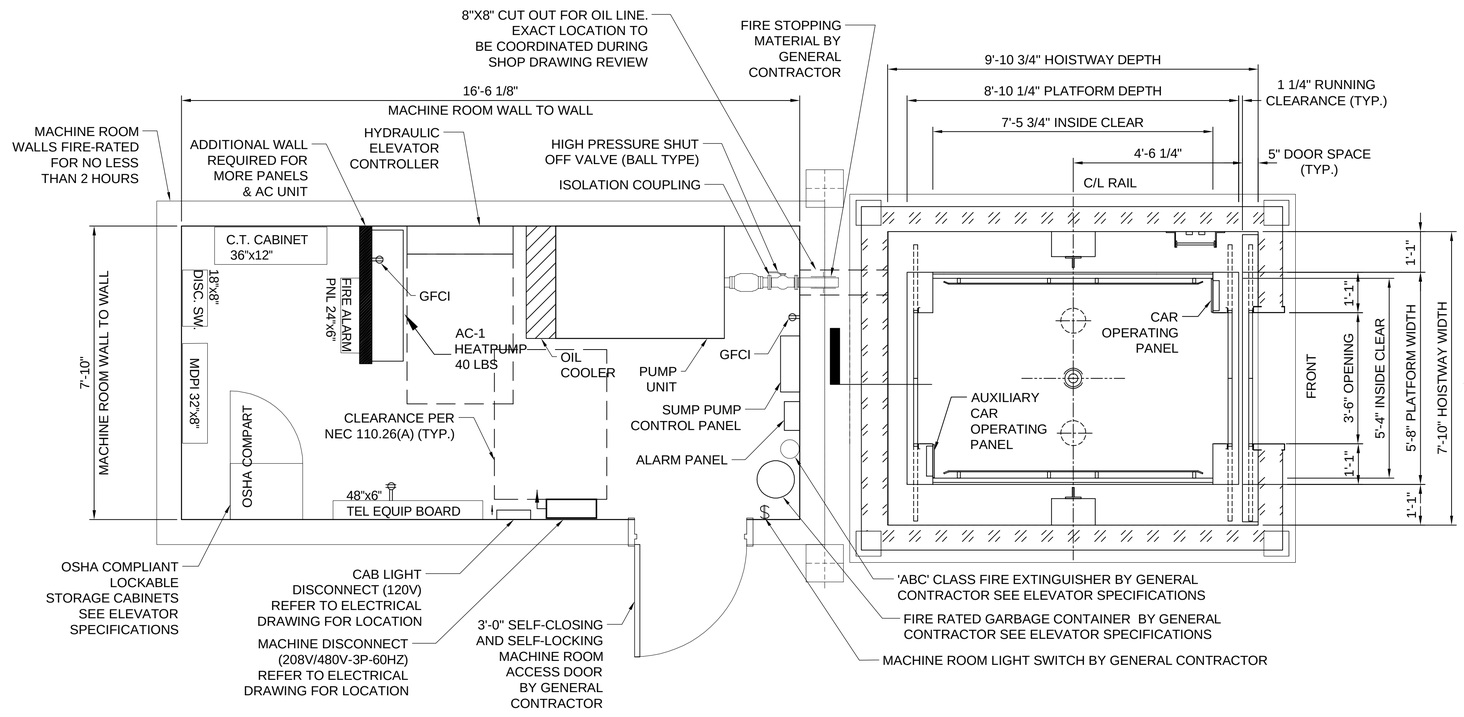
ELEVATOR SCHEDULE												
ELEVATOR							HOISTWAY WIDTH	HOISTWAY DEPTH	PLATFORM WIDTH	PLATFORM DEPTH	CAR INSIDE WIDTH	CAR INSIDE DEPTH
ELEVATOR NO.	CATEGORY	TYPE	CAPACITY (LBS.)	SPEED (FPM)	PIT DEPTH	CLEAR OVERHEAD						
ELEVATOR 1	PASSENGER	IN-GROUND HYDRAULIC	3,500	100	4'-0" (MIN.)	12'-6" (MIN.)	7'-10"	9'-10 3/4"	5'-8"	8'-10 1/4"	5'-4"	7'-5 3/4"

ELEVATOR SCHEDULE (CONTINUED)												
ELEVATOR NO.	DOOR			CAR TYPE	TRAVEL	NUMBER OF STOPS	NUMBER OF OPENINGS	LEVELS SERVED	PIT DRAINAGE TYPE	POWER (HP)	STARTING CURRENT (V.I.F.) 208V / 480V 3P, 60Hz (A)	RUNNING CURRENT (V.I.F.) 208V / 480V 3P, 60HZ (A)	HEAT EMISSION (BTU)
	DOOR WIDTH	DOOR HEIGHT	TYPE										
ELEVATOR 1	3'-6"	7'-0"	SINGLE SPEED CENTER OPENING	FRONT / REAR OPENING	32'-0"	2	2	STATION / PEDESTRIAN BRIDGE	SUMP PUMP	40	240 / 104	120 / 52	22,000



2 VT-102 HATCH PLAN @ PEDESTRIAN BRIDGE LEVEL
SCALE: 1/2" = 1'-0"



3 VT-103

1 VT-102 ELEVATOR MACHINE ROOM AND HATCH PLAN @ STATION LEVEL
SCALE: 1/2" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	P. GOMULKA
DRAWN	F. HUANG
CHECKED	E. ROSS
APPROVED	S. YAGHOBI

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

REVISIONS

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MTA Metro-North Railroad
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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PLAN, MACHINE ROOM AND SCHEDULE

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. VT-102
SHEET 61 OF 76

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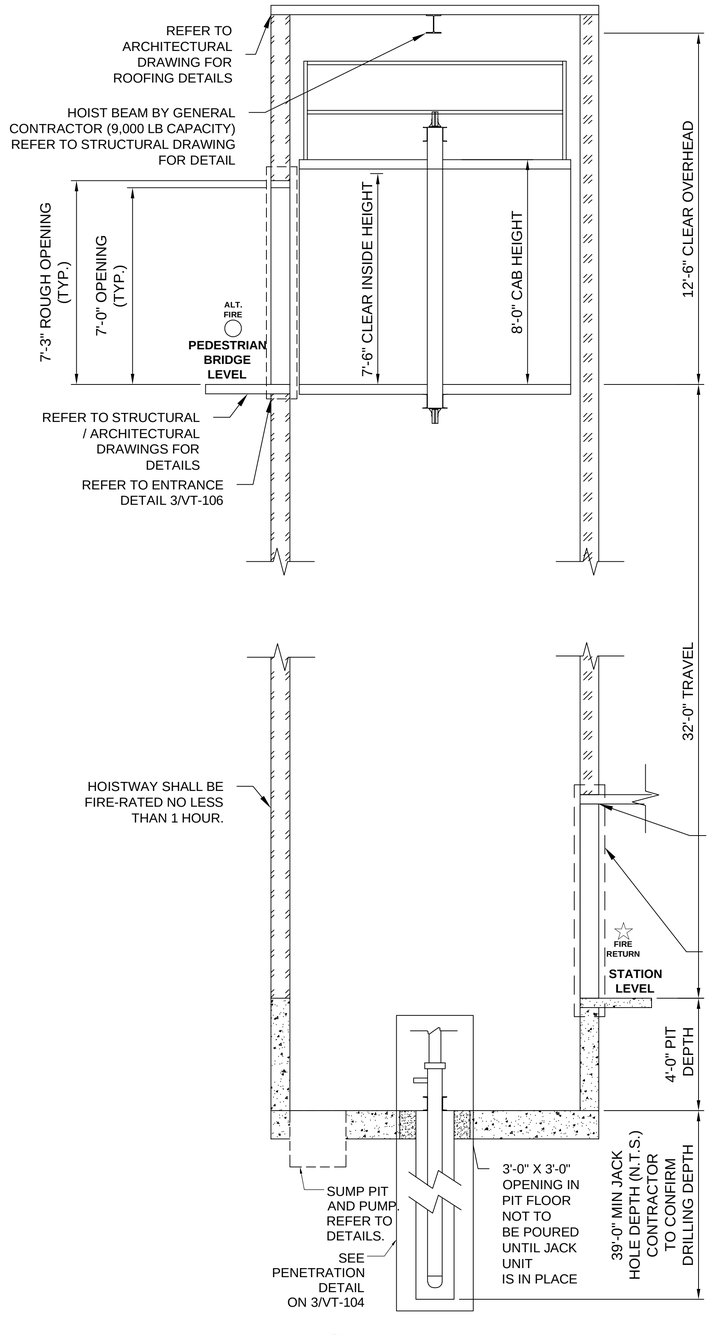
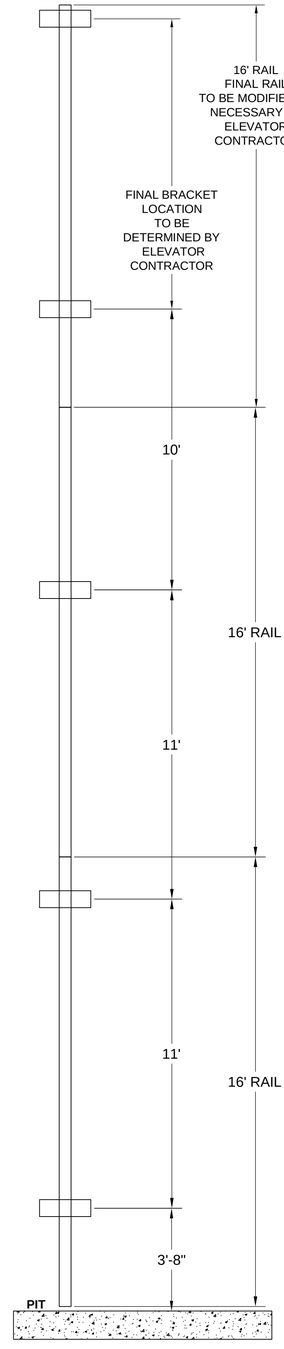


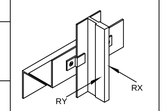
3 VT-103 **HOISTWAY ELEVATION**
SCALE: 3/8" = 1'-0"



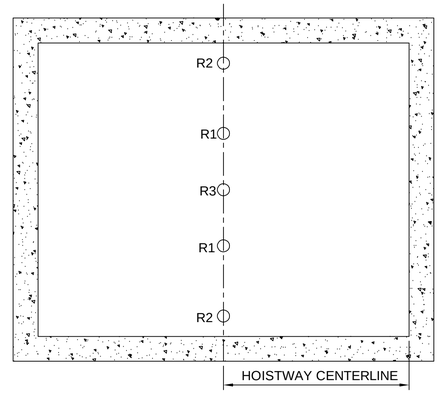
2 VT-103 **RAIL STACK AND SPAN**
SCALE: 3/8" = 1'-0"

RAIL STACK NOTES:
A. MAX BRACKET SPACING NOT TO EXCEED 12'-0".
B. BRACKET FASTENING SURFACE MUST WITHSTAND RAIL FORCES SHOWN
C. SECURE BRACKETS TO FASTENING SURFACE USING BOLTS, RIVETS, CLIPS OR BY WELDING.
D. GUIDE RAILS SHALL BE SECURED TO THEIR BRACKETS BY CLIPS OR BOLTS
E. RAIL SUPPORT POINTS SHALL HAVE A MAX DEFLECTION OF:
   - 1/8" WHEN ACTED UPON BY FORCES R1 AND R2
   - 1/4" WHEN ACTED UPON BY SEISMIC FORCES R1 AND R2

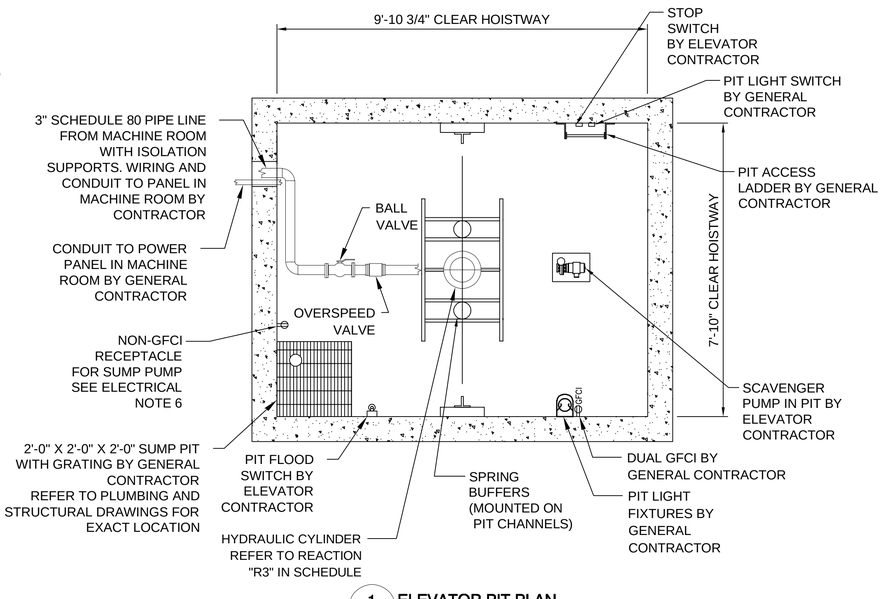
A) ELEVATOR PIT REACTIONS		
REACTION	TYPE	IN-GROUND HYDRAULIC
R1	CAR BUFFER	11,500 LBS
R2	CAR RAIL	2,000 LBS
R3	IN-GROUND JACK	23,000 LBS

B) CAR RAIL REACTIONS			
REACTION	LOAD (LBS)	LOAD (SEISMIC) (LBS)	
RX	563	1550	
RY	158	780	

GENERAL NOTES:
A. FOR HOISTWAY STRUCTURAL DETAILS REFER TO STRUCTURAL DRAWINGS
B. LEDGES IN THE HOISTWAY GREATER THAN 4" SHALL BE BEVELED AS REQUIRED PER CODE



4 VT-103 **ELEVATOR PIT REACTIONS**
SCALE: 1/2" = 1'-0"



1 VT-103 **ELEVATOR PIT PLAN**
SCALE: 1/2" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	P. GOMULKA
DRAWN	F. HUANG
CHECKED	E. ROSS
APPROVED	S. YAGHOBI

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PASSENGER ELEVATOR
SECTION, PIT DETAILS AND REACTIONS

CONTRACT NO. 1000106733
SCALE: AS NOTED
DATE: 11-20-2019
DRAWING NO. **VT-103**
SHEET 62 OF 76

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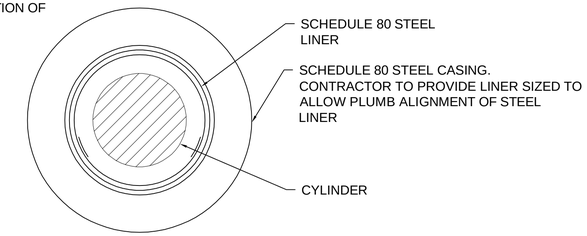
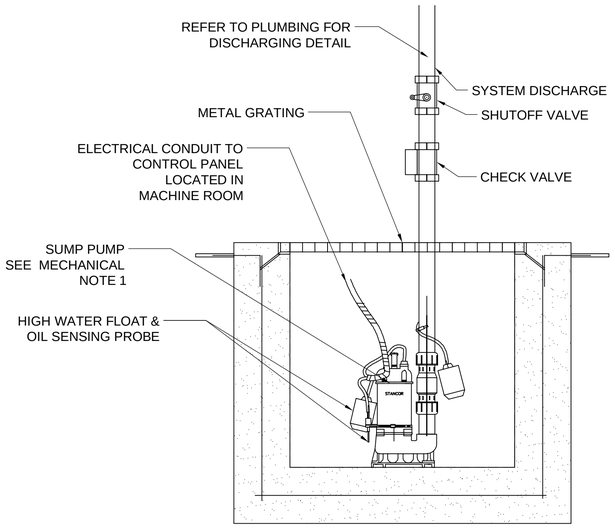
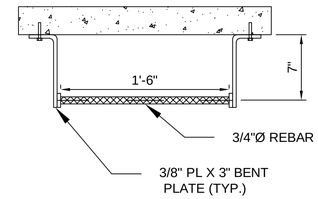
NOTES:
1. ALL WIRES SHALL BE COPPER, SIZED AS INDICATED WITH THIN INSULATION.
2. PROVIDE STAMPED PLASTIC IDENTIFICATION TAGS FOR EACH WIRE.
3. ELEV. PIT, STEEL CASING, AND PVC LINER SHALL BE KEPT CLEAN AND DRY PRIOR TO AND THROUGHOUT INSTALLATION OF HYDRAULIC CYLINDER.



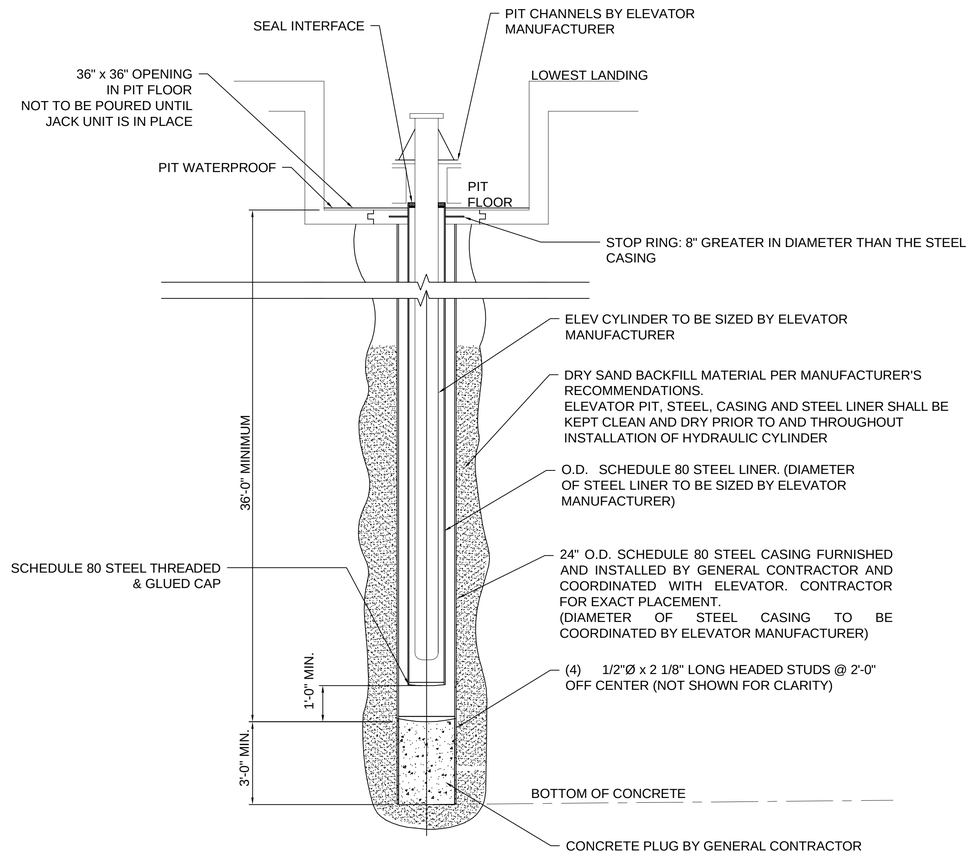
7 VT-104 **CYLINDER DETAIL - PLAN**
SCALE: 3/8" = 1'-0"



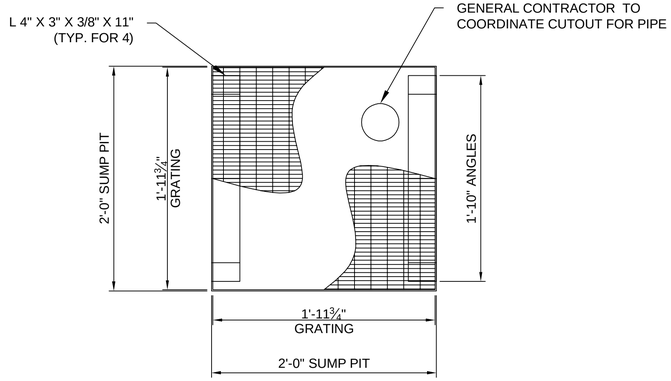
6 VT-104 **SIMPLEX SUMP PIT DETAIL**
SCALE: 1/2" = 1'-0"



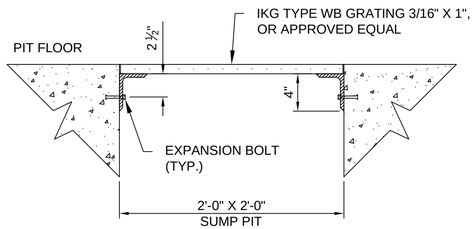
5 VT-104 **TYPICAL PLAN OF LADDER**
SCALE: 1/2" = 1'-0"



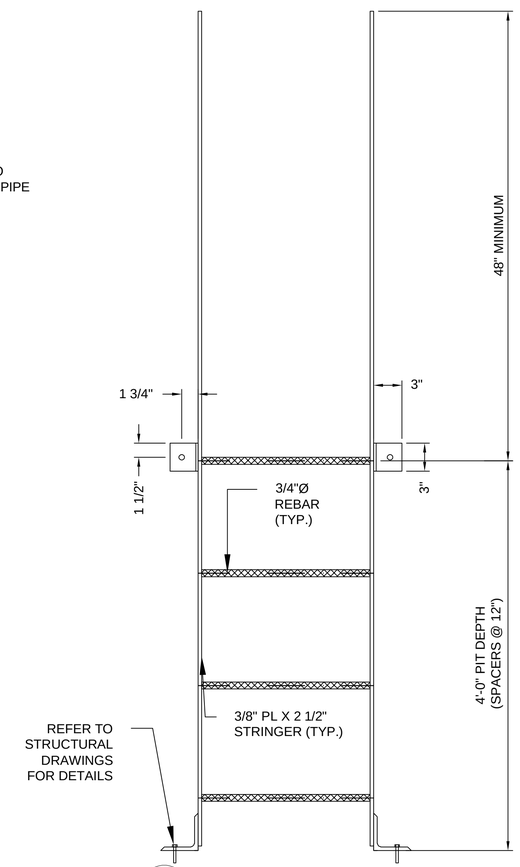
3 VT-104 **CYLINDER DETAIL - ELEVATION**
SCALE: 3/8" = 1'-0"



4 VT-104 **TYPICAL PLAN OF SUMP PIT**
SCALE: 1/2" = 1'-0"



2 VT-104 **TYPICAL SECTION OF SUMP PIT**
SCALE: 1/2" = 1'-0"



1 VT-104 **TYPICAL SECTION OF LADDER**
SCALE: 1/2" = 1'-0"

100% DESIGN SUBMISSION

									CONFORMED				
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD
REVISIONS						REVISIONS							

DESIGNED P. GOMULKA
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STATE OF NEW YORK — JACOBS & MONTGOMERY — 250835 — LICENSED PROFESSIONAL ENGINEER

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PASSENGER ELEVATOR DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED | DATE 11-20-2019
DRAWING NO. **VT-104**
SHEET 63 OF 76

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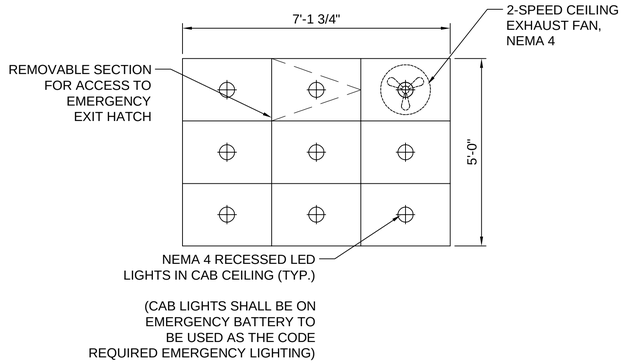
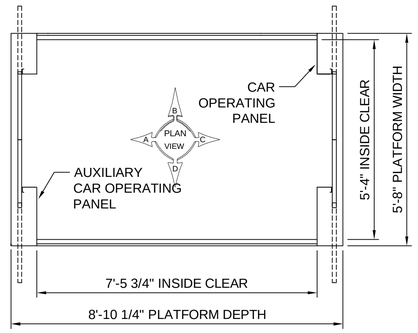
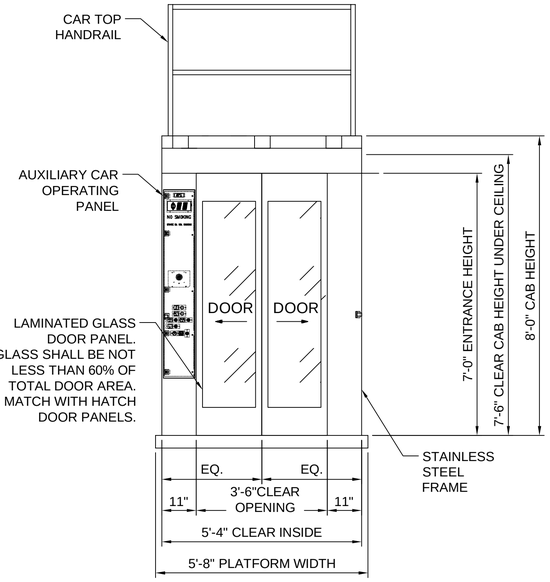


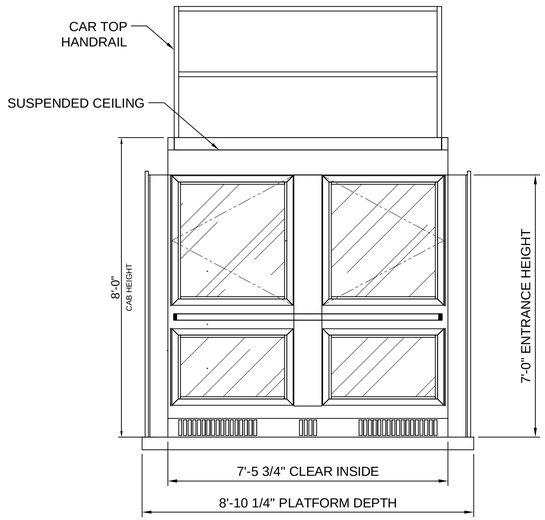
5 REFLECTED CEILING PLAN
VT-105 SCALE: 1/2" = 1'-0"



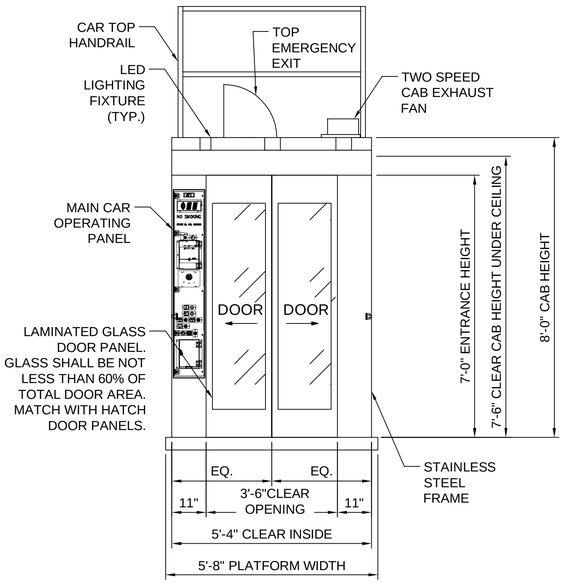
4 CAB FLOOR PLAN
VT-105 SCALE: 1/2" = 1'-0"



3 ELEVATION "A"
VT-105 SCALE: 1/2" = 1'-0"



2 ELEVATION "B" ("D" SIMILAR)
VT-105 SCALE: 1/2" = 1'-0"



1 ELEVATION "C"
VT-105 SCALE: 1/2" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED	P. GOMULKA
DRAWN	F. HUANG
CHECKED	E. ROSS
APPROVED	S. YAGHOBI

STATE OF NEW YORK · ADAM R. MONTERO · LICENSED PROFESSIONAL ENGINEER · 080853

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

NO.	DATE		DRWN	CHKD	APPVD

REVISIONS

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PASSENGER ELEVATOR CAB PLAN, SECTIONS, AND CEILING

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. **VT-105**
SHEET 64 OF 76

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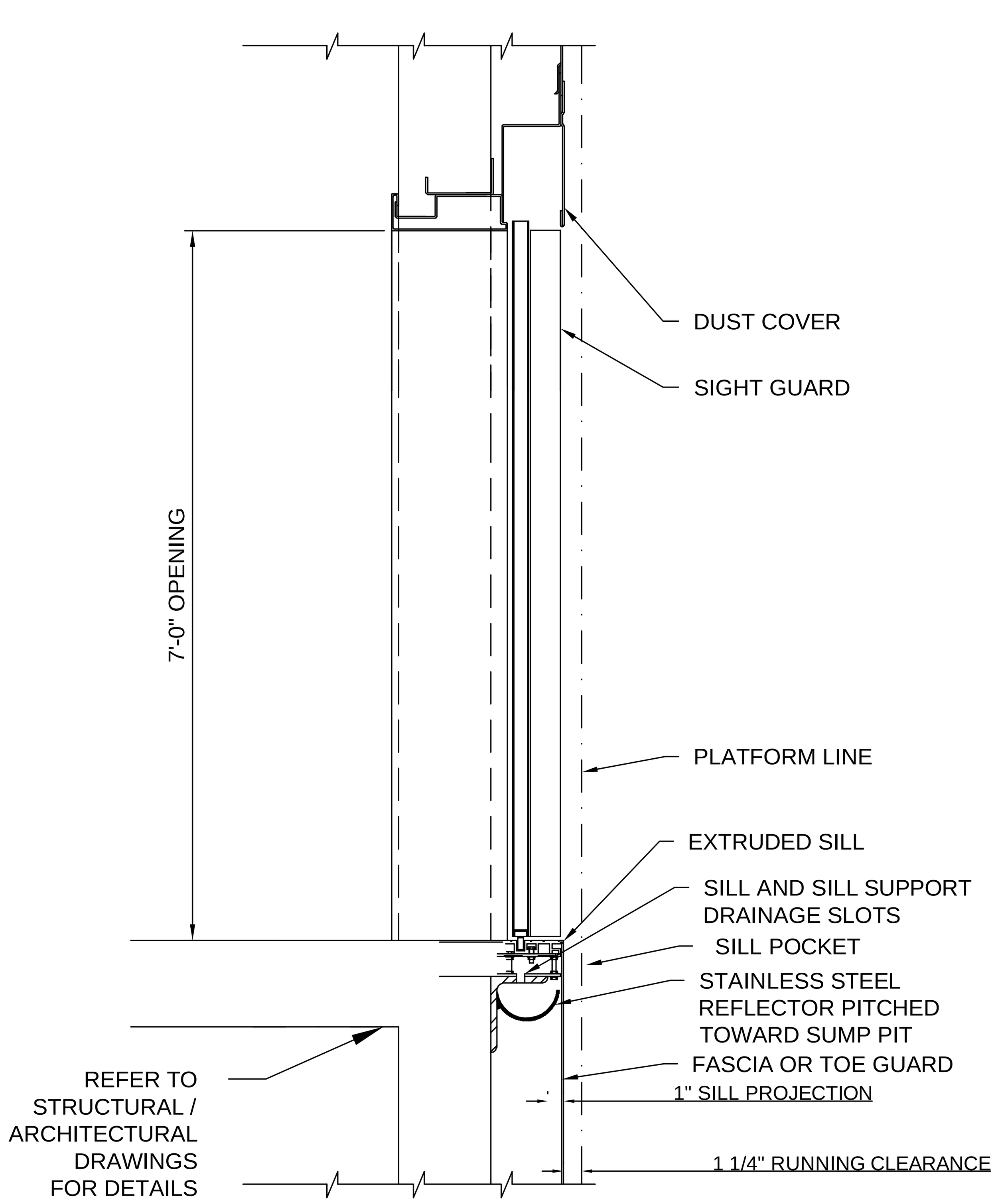
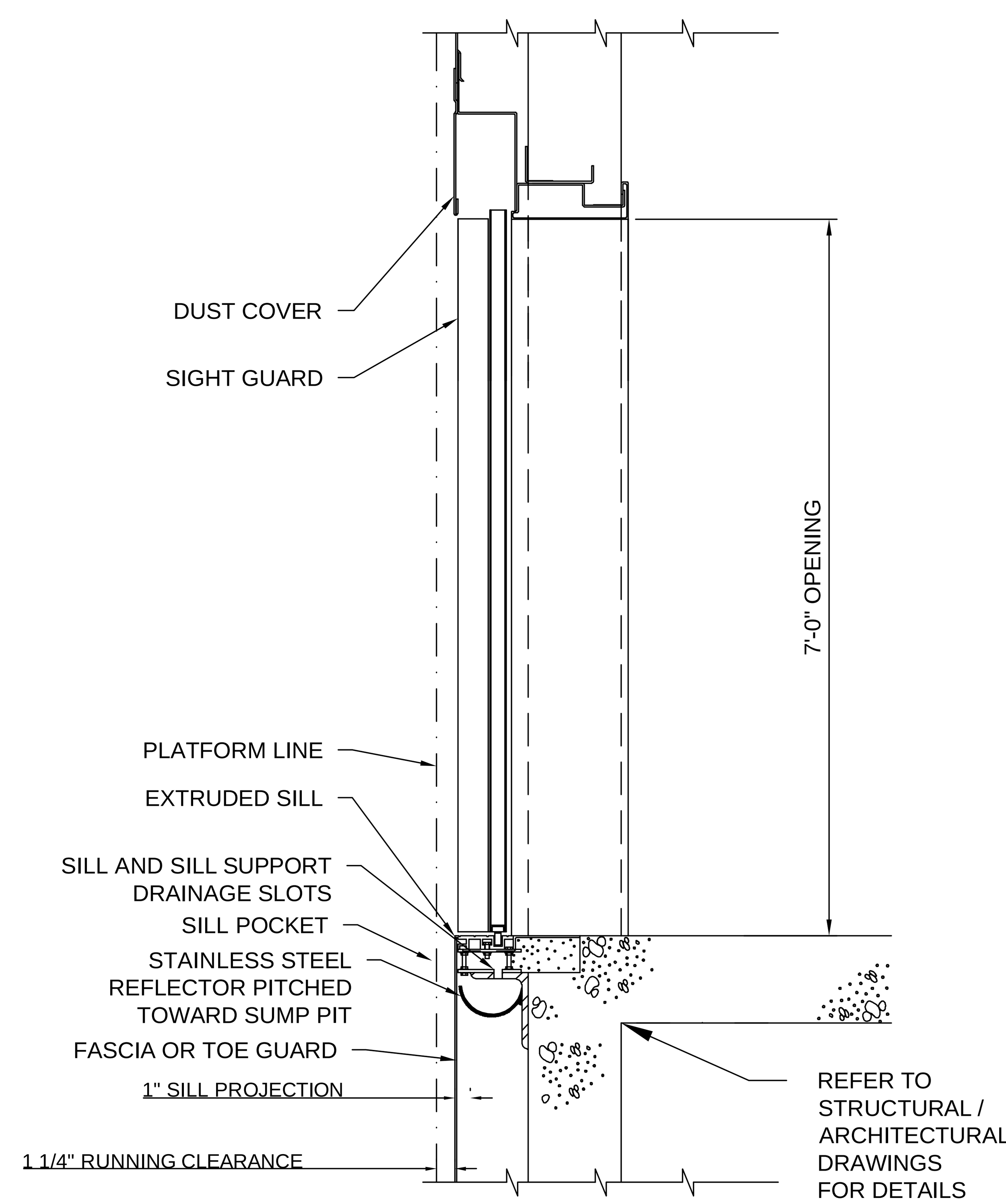
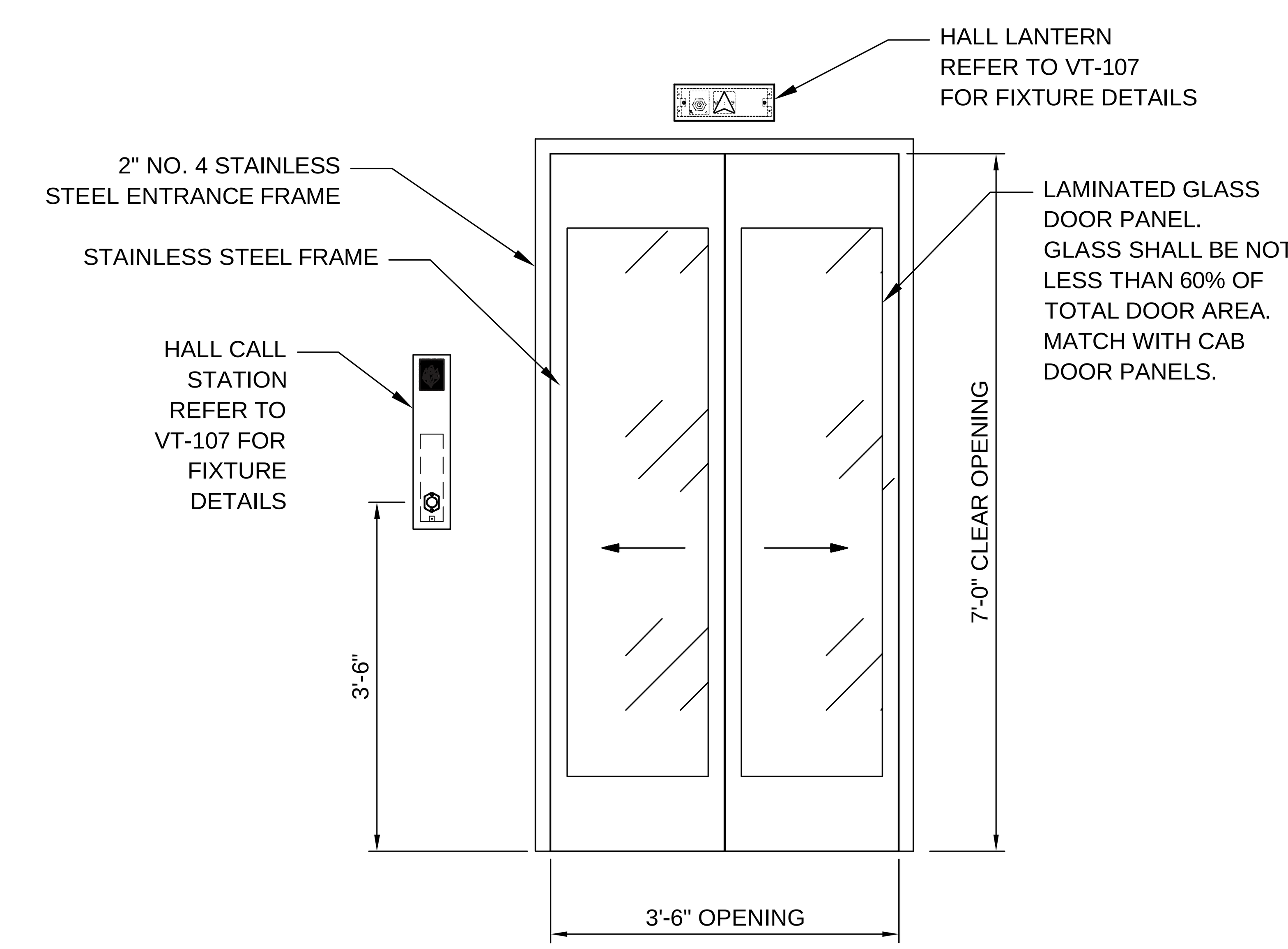


3 ELEVATOR ENTRANCE AT PEDESTRIAN BRIDGE LEVEL
VT-106 SCALE: NTS



2 ELEVATOR ENTRANCE AT STATION LEVEL
VT-106 SCALE: NTS



1 TYPICAL DOOR OPENING
VT-106 SCALE: NTS

100% DESIGN SUBMISSION

DESIGNED	P. GOMULKA
DRAWN	F. HUANG
CHECKED	E. ROSS
APPROVED	S. YAGHOBI

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS | REVISIONS

AECOM

Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE: METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PASSENGER ELEVATOR
ENTRANCE SECTIONS AND DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED | DATE 11-20-2019
DRAWING NO. VT-106
SHEET 65 OF 76

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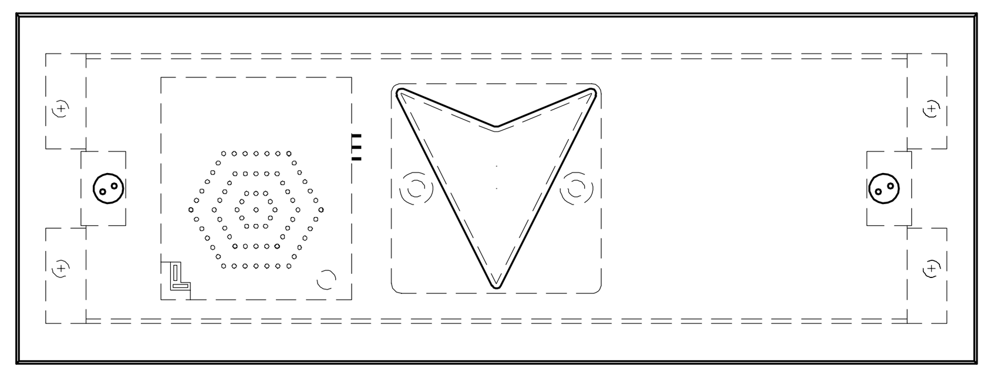
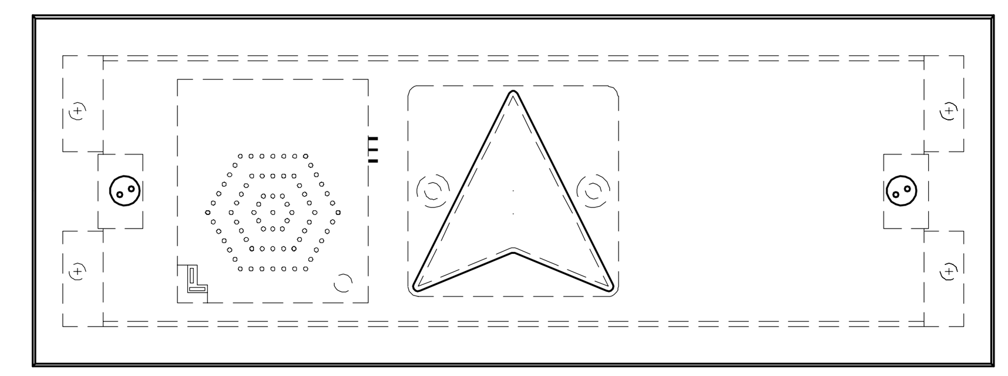
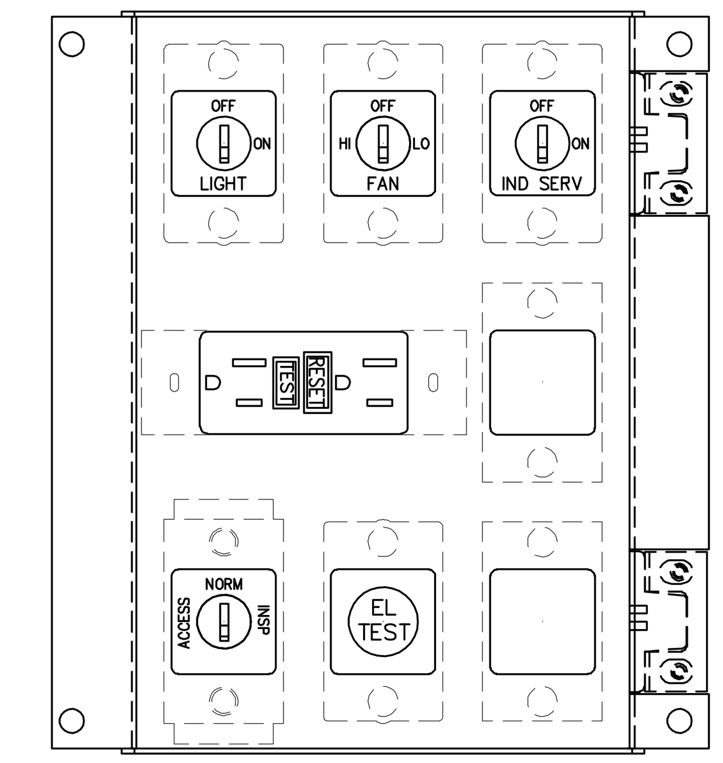


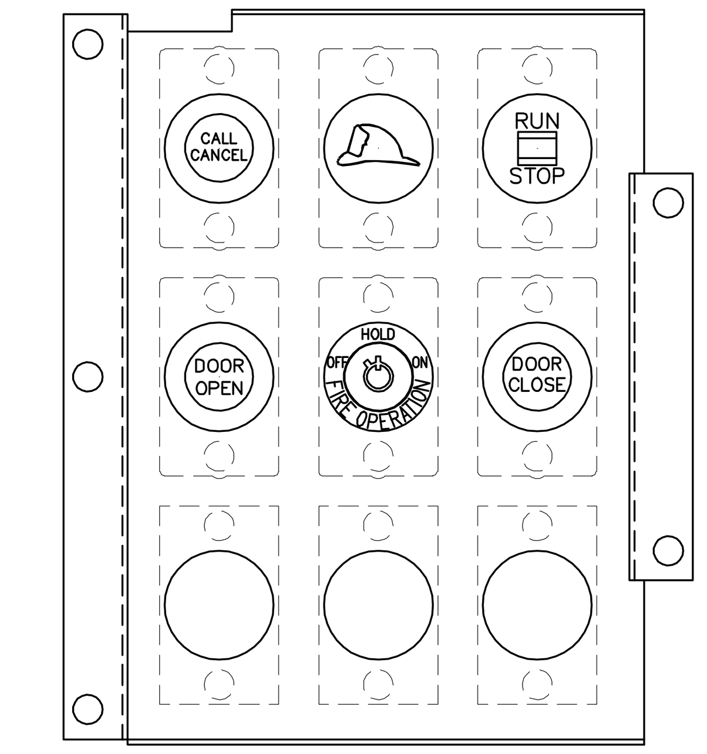
9 TOP TERMINAL LANTERN DETAIL
VT-107 SCALE: NTS



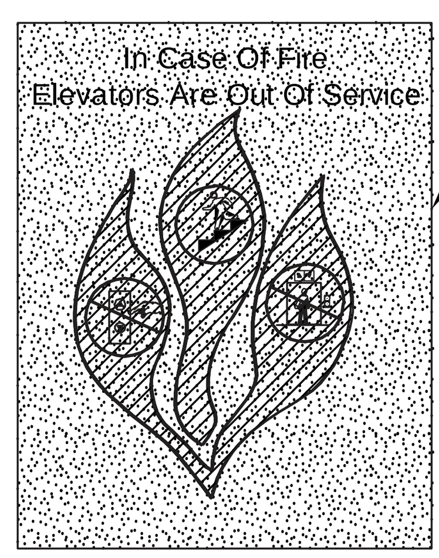
8 BOTTOM TERMINAL LANTERN DETAIL
VT-107 SCALE: NTS



7 SERVICE PANEL
VT-107 SCALE: NTS

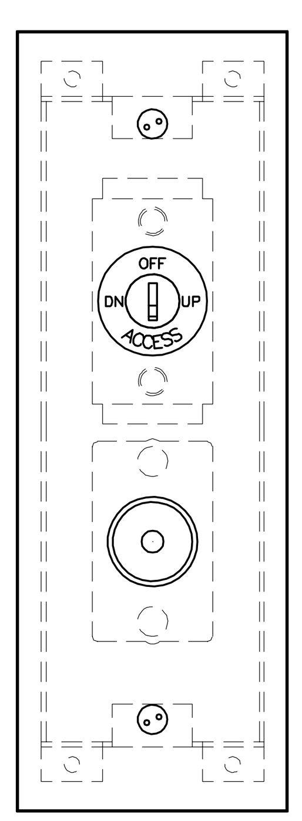


6 FIRE PANEL
VT-107 SCALE: NTS

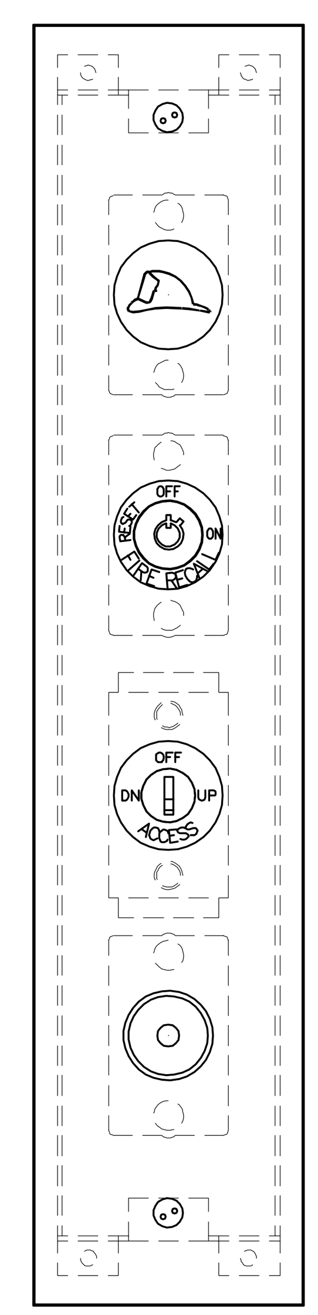


SEPARATE FIRE SIGN OR INCLUDED WITH HALL STATION

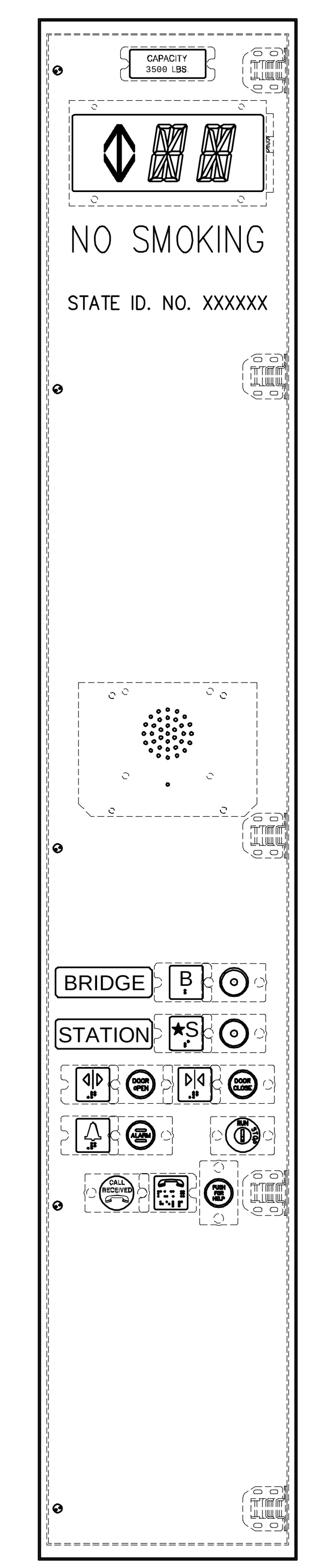
5 FIRE SIGN
VT-107 SCALE: NTS



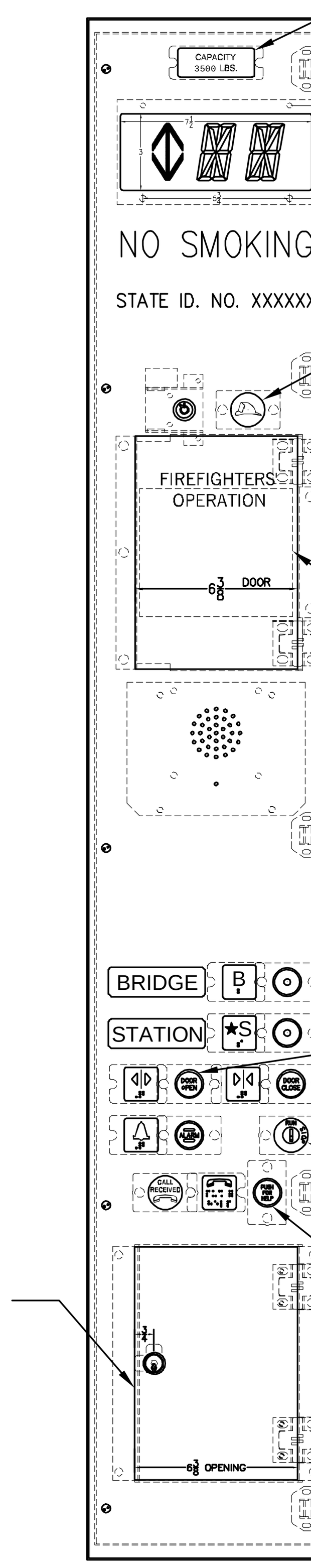
4 TERMINAL HALL STATION @ TOP
VT-107 SCALE: NTS



3 TERMINAL HALL STATION @ BOT
VT-107 SCALE: NTS



2 AUXILIARY CAR OPERATING PANEL
VT-107 SCALE: NTS



ELEVATOR NUMBER & CAPACITY OF ELEVATOR CAR PER SPECIFICATIONS

FIRE JEWEL

FIREFIGHTERS OPERATION CABINET. INSTRUCTIONS ENGRAVED ON BACK OF DOOR

DOOR OPEN / CLOSE BUTTON

RUN/STOP KEYSWITCH

PUSH FOR HELP BUTTON

SERVICE CABINET CONTAINING: CAR LIGHT SWITCH; CAR FAN SWITCH; DUPLEX GFCI OUTLET;INSPECTION KEY SWITCH;INDEPENDENT SERVICE KEY SWITCH; EMERGENCY LIGHT TEST BUTTON.

1 MAIN CAR OPERATING PANEL
VT-107 SCALE: NTS

100% DESIGN SUBMISSION

DESIGNED P. GOMULKA
DRAWN F. HUANG
CHECKED E. ROSS
APPROVED S. YAGHOBI

CONFORMED

NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD

REVISIONS REVISIONS

AECOM

Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
PASSENGER ELEVATOR FIXTURE DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. VT-107
SHEET 66 OF 76

Frankel.huang 11/13/2019 3:37:06 PM

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COMMUNICATIONS SYSTEM GENERAL NOTES

1. INSTALLATION OF ALL SYSTEMS WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA), ALL APPLICABLE LOCAL CODES, AND INDUSTRY STANDARDS.
2. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS ABOVE SUSPENDED CEILING AND FURRED WALLS SHALL BE INSTALLED PARALLEL TO THE BEAMS AND WALLS.
3. PROVIDE ALL REQUIRED PULL BOXES, JUNCTION BOXES, AND HANDHOLES FOR INSTALLATION OF THE WIRING IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS THOUGH THE BOX MAY NOT BE INDICATED ON THE DRAWINGS.
4. WIRING DIAGRAMS, QUANTITY, AND SIZE OF WIRES AND CONDUITS ARE BASED UPON SELECTED STANDARD COMPONENTS OF COMMUNICATIONS EQUIPMENT, AS APPROVED BY THE ENGINEER. ADJUSTMENTS MAY BE MADE BY THE CONTRACTOR AT HIS EXPENSE TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED.
5. COORDINATE CONDUITS AND WIRING WORK WITH OTHER WORK UNDER THIS PROJECT.
6. PROVIDE ALL NECESSARY COMPONENTS REQUIRED FOR MAKING FINAL CONNECTION OF ALL EQUIPMENT INSTALLED AS PART OF THIS CONTRACT.
7. ALL INDICATION AND CONTROL WIRING IN JUNCTION BOXES SHALL BE WIRED TO NUMBERED TERMINAL STRIPS AND IDENTIFIED AS TO START AND END OF RUN.
8. ALL JUNCTION AND PULL BOXES SHALL BE LABELED. JUNCTION BOXES SHALL BE PROVIDED IN ANY CONDUIT RUN WHERE THE CUMULATIVE BEND RADIUS EXCEEDS 270 DEGREES UNLESS NOTED OTHERWISE ON DRAWINGS.
9. DRAWINGS ARE DIAGRAMMATIC. ACTUAL LOCATION OF EQUIPMENT TO BE DETERMINED IN THE FIELD. NEW EQUIPMENT SHALL FIT INTO AVAILABLE SPACE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE EQUIPMENT WHICH MEETS THE SPACE REQUIREMENT.
10. COORDINATE WORK SCHEDULE WITH THE OWNER. WORK WILL BE ALLOWED IN CERTAIN AREAS AND GOVERNED BY EXISTING SECURITY REGULATIONS AT THE FACILITY. WORK SHALL BE COORDINATED WILL ALL CONCURRENT CONSTRUCTION AND OPERATION ON SITE.
11. CONTRACTOR SHALL SUBMIT A LIST OF ALL MAJOR EQUIPMENT TO THE ENGINEER FOR REVIEW AND APPROVAL. NO SUBSTITUTION SHALL BE ALLOWED WITHOUT THE PERMISSION OF THE ENGINEER IN WRITING. ALL EQUIPMENT SHALL BE NEW AND BEAR THE MANUFACTURER'S NAME AND TRADE NAME. ALL EQUIPMENT SHALL BE UL LISTED.
12. THE CONTRACTOR SHALL REVIEW ALL PLANS AND SPECIFICATIONS PRIOR TO COMMENCEMENT OF WORK AND FIELD VERIFY ALL GOVERNING CONSTRUCTION DIMENSIONS. THE CONTRACTOR SHALL EXAMINE ALL ADJOINING WORK OR AREAS UPON WHICH THE PERFORMANCE OF THIS WORK IS IN ANY WAY DEPENDENT.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY AND ALL SURFACES OR EXISTING MATERIALS/EQUIPMENT DAMAGED AS A RESULT OF THE CONSTRUCTION PERFORMED UNDER THIS PROJECT AND AT NO ADDITIONAL COST TO THE OWNER.
14. CONTRACTOR SHALL FURNISH AND INSTALL WIRE AND CABLE AND CONDUIT FROM EQUIPMENT TO POWER SUPPLY. ALL WIRE AND CONDUIT SHALL MEET NEC, LOCAL, STATE AND LIRR STANDARDS.
15. WHERE SYSTEMS INSTALLATIONS DEPEND UPON WORK OF OTHER TRADES, THE CONTRACTOR SHALL ENSURE THAT NECESSARY INSTRUCTIONS, TEMPLATE, MATERIALS, ETC. ARE PROVIDED AND SUPERVISE THE WORK THE OTHER TRADES FOR QUALITY AND CODE COMPLIANCE.
16. THE CONTRACTOR SHALL SUBMIT DETAILED TEST PROCEDURES TO DEMONSTRATE THE CAPABILITY OF THE INSTALLED EQUIPMENT. REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
17. THE CONTRACTOR SHALL VISIT THE JOB SITE AND EXAMINE THE EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
18. EXACT PLACEMENT OF EQUIPMENT SHALL BE DETERMINED DURING CONSTRUCTION BASED ON FIELD CONDITIONS. WHENEVER COMMUNICATIONS EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL SUBMIT AN ALTERNATE LOCATION FOR APPROVAL BEFORE INSTALLATION.
19. EXACT PLACEMENT OF CONDUIT AND CABLE SHALL BE DETERMINED DURING CONSTRUCTION BASED ON FIELD CONDITIONS. CONDUIT INSTALLATION SHALL FOLLOW NEW YORK STATE, LOCAL AND NEC GUIDELINES.
20. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES ALONG THE LENGTH OF CONDUIT RUNS AS NECESSARY TO MEET CODE REQUIREMENTS AND MANUFACTURER PULLING TENSION LIMITS.
21. ALL CONDUIT CONNECTIONS SHALL BE WATERTIGHT. ALL CONDUIT ENTERING ENCLOSURES SHALL BE PROVIDED WITH WATERTIGHT HUBS.
22. EXISTING FEATURES ARE SHOWN WITH LINE WEIGHTS LIGHT OR SCREENED.
23. NEW FEATURES ARE SHOWN WITH LINE WEIGHTS HEAVY OR SOLID.
24. LOCATIONS UNDER SURVEILLANCE ARE SUBJECT TO CCTV CAMERA SURVEY. REFER TO CONTRACT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
25. THE CONTRACTOR SHALL COORDINATE ALL CONNECTIONS FOR CARRIER SERVICES WITH BASE BUILDING TELECOM PATHWAYS.
26. WHERE A SPECIFIC CONDITION IS DETAILED, IT SHALL BE UNDERSTOOD THAT ALL LIKE OR SIMILAR CONDITIONS ARE THE SAME UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE.
27. WORK SHALL CONFORM TO ALL LOCAL, NEW YORK STATE AND FEDERAL CODES AND ORDINANCES IN EFFECT. ALL SAFETY PROVISIONS SHALL BE STRICTLY ADHERED TO IN EVERY DETAIL.
28. THE CONTRACTOR SHALL BEAR TOTAL SYSTEM RESPONSIBILITY FOR ALL SPECIFIED WORK AND SHALL BE RESPONSIBLE TO INTEGRATE THE VARIOUS NECESSARY ELEMENTS OF CONTRACT WORK SO THAT THE OVERALL SPECIFICATION PERFORMANCE GOALS ARE MET.
29. TESTING AND COMMISSIONING OF ALL SYSTEMS WILL BE UNDERTAKEN BY THE CONTRACTOR PER SPECIFICATION REQUIREMENTS, UON IN THE CONTRACT DOCUMENTS.
30. THE CONTRACTOR'S WORK SHALL INCLUDE THE FURNISHING, INSTALLING, TESTING, CONFIGURING AND INTEGRATION OF EQUIPMENT, MATERIALS, RACKS, CABINETS, CABLES, CABLE TRAYS, CONDUIT, HARDWARE AND ALL ELEMENTS IN THE EQUIPMENT SCHEDULE, NOT SPECIFICALLY NOTED AS BY MNR OR OTHERS, REQUIRED TO PROVIDE A COMPLETE, COORDINATED AND COMPATIBLE OPERATING SYSTEM(S), WITH FUNCTIONAL SUBSYSTEMS, AND ELEMENTS WHICH MEET THE REQUIREMENTS DESCRIBED IN THESE DOCUMENTS, U.O.N. AS BY MNR OR OTHERS.
31. WHERE MNR ARE INSTALLING EQUIPMENT, MNR WILL ALSO CONFIGURE, TEST AND INTEGRATE THIS EQUIPMENT WITH THE SYSTEM INSTALLED BY THE CONTRACTOR.
32. MNR AND OTHERS SHALL FURNISH AND/OR INSTALL EQUIPMENT ONLY WHERE SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE ANY REQUIRED INTERFACES WITH OTHER COMMUNICATIONS SYSTEM OR DEVICES AS REQUIRED FOR A COMPLETE, INTEGRATED AND OPERATIONAL SYSTEM.
33. WHERE ADJUSTMENT TO EXISTING HEAD END EQUIPMENT IS REQUIRED IN EXISTING COMMUNICATIONS ROOMS TO RECEIVE THE NEW EQUIPMENT SYSTEMS, ANY ADJUSTMENTS TO THE EXISTING SYSTEM WILL BE UNDERTAKEN BY MNR UNLESS OTHERWISE STATED.
34. EQUIPMENT AND MATERIAL FURNISHED HEREUNDER SHALL BE APPROVED PRIOR TO ORDERING, MANUFACTURING, OR PURCHASING. SUBMIT REQUIRED DESIGNS AND PRODUCT DATA FOR APPROVAL.
35. WHERE WORK UNDER THIS CONTRACT REQUIRES INTERFACING AND COORDINATING WITH VARIOUS OTHER MNR STATIONS IMPROVEMENT CONTRACTORS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCCESSFULLY MANAGING AND INTEGRATING NEW INTERFACES IN ACCORDANCE WITH REQUIREMENTS SPECIFIED IN UNDER THIS CONTRACT, SUCH INTERFACES SHOULD HAVE MILESTONE ACTIVITY DATES AND BE A PART OF THE CONTRACTOR'S MAIN CONSTRUCTION SCHEDULE AS CRITICAL ACTIVITIES.
36. ALL CABLE TERMINATIONS IN THE COMMUNICATIONS ROOMS SHALL BE AT THE RACKS PER THE NETWORK AND RISER DIAGRAMS. COORDINATE FINAL TERMINATION POINTS AND TYPE WITH MNR.
37. THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL CONDUIT AND CABLE SUPPORT INFRASTRUCTURE REQUIRED. THIS MAY REQUIRE TRANSFER OF SUPPORT AROUND EXISTING SERVICES. ALL SUPPORT DESIGNS SHALL BE SUBMITTED FOR APPROVAL AND SHALL INCLUDE CALCULATIONS SIGNED AND SEALED BY A DESIGN PROFESSIONAL REGISTERED IN THE STATE OF NEW YORK.
38. ALL EQUIPMENT SHALL BE ARRANGED TO PERMIT EASY ACCESS FOR OPERATION AND MAINTENANCE.
39. ALL CABLE EQUIPMENT, ETC. SHALL BE SMOKE AND FIRE SEALED. SEALS SHALL BE UL R81—58 LISTED. APPROVED BY THE ENGINEER AND ALL FIREPROOFING DISTURBED SHALL BE REPLACED. ALL VERTICAL SMOKE AND FIRE STOP FITTINGS SHALL BE 3 HOUR RATED AND UL R81—58 LISTED. USE OZ/GEDNEY TYPE CAFS1 OR APPROVED EQUIVALENT.
40. WIRING SYSTEM SHALL BE CONSISTENTLY COLOR CODED AND TAGGED. COORDINATION OF EXACT WIRE CODING AND TAGGING IS MANDATORY AND PART OF THE SUBMITTAL PROCESS.
41. ALL THREADED FITTINGS SHALL CONFORM TO NEMA FB1. THREADS CUT AFTER THE ORIGINAL APPLICATION OF ZINC COATING SHALL BE RE—TREATED WITH A ZINC COATING EQUIVALENT TO A HOT—DIPPED PROCESS.
42. ALL CONDUIT ROUTES SHALL BE GROUNDED AND BONDED. NEC, LOCAL, STATE, MANUFACTURER AND MNR STANDARDS.
43. ALL CONDUITS SHALL MAINTAIN A MINIMUM BEND RADIUS OF 10 TIMES THE OUTER DIAMETER OF THE CONDUIT. FOR CONDUITS GREATER THAN 2 TRADE SIZE THE BEND RADIUS SHALL BE 6 TIMES THE OUTER DIAMETER.
44. ALL EQUIPMENT AND CABINET SHALL BE PROPERLY GROUNDED AND BONDED ACCORDING TO NEC, LOCAL, STATE, MANUFACTURER AND MNR STANDARDS.
45. DO NOT INSTALL PULLING ELBOWS ON CONDULETS IN LIEU OF A BEND.
46. REAM AND BUSH THE ENDS OF ALL CONDUITS. PROVIDE PLASTIC BUSHINGS PRIOR TO INSTALLING CABLE.
47. PROVIDE AND LEAVE IN PLACE A MINIMUM 200—LB PULL STRING FOR ALL CONDUITS.
48. PROVIDE HANGERS, ANCHORS, MOUNTING HARDWARE, GROUNDING LUGS AND STRAPS AS REQUIRED TO ENSURE PROPER INSTALLATION OF PATHWAY COMPONENTS. INSTALL ALL COMPONENTS AS PER MANUFACTURERS RECOMMENDATIONS AND AS PER LOCAL CODES.
49. INSTALL CABLE STRAIN RELIEF DEVICE WHEREVER TRANSITION IS MADE FROM CABLE INSTALLED WITHOUT CONDUIT TO CONDUIT INSTALLATION AND AT BOXES AND TERMINAL CABINET.
50. ALL EQUIPMENT ENCLOSURES SHALL BE PROVIDED WITH STAINLESS STEEL NAMEPLATES ENGRAVED WITH BLACK LETTERS. NAMEPLATES SHALL BE FASTENED TO THE EQUIPMENT WITH STAINLESS STEEL SCREWS.
51. THE TERM "CONTRACTOR SHALL FURNISH AND INSTALL" OR "PROVIDE" IS IMPLICIT IN ALL DRAWINGS WHERE NEW EQUIPMENT AND/OR CABLING IS SHOWN.
52. THE TERM "CONTRACTOR SHALL CONFIGURE, INTEGRATE AND INTERFACE" IS IMPLICIT IN ALL DRAWINGS WHERE NEW EQUIPMENT IS FURNISH BY EITHER THE CONTRACTOR OR MNR U.O.N.
53. ALL COMMUNICATIONS CONDUITS RUNS SHALL FOLLOW EIA/TIA 569, NFPA 220 AND ASTM E814 STANDARDS.
54. CONDUIT ROUTING SHALL BE LOCATED WITHIN CEILING PLENUMS OR WITHIN WALL CAVITIES OR DESIGNATED ENCLOSED WALL CHASES IN ALL OCCUPIED SPACES.
55. BOXES SHALL BE PLACED IN A STRAIGHT SECTION OF CONDUIT AND NOT BE USED IN LIEU OF A BEND PER EIA/TIA 569 STANDARDS.
56. COMMUNICATIONS AND SECURITY CONDUITS MUST BE CONSTRUCTED USING RIGID STEEL U.O.N. BY MNR.
57. MAXIMUM LENGTH OF CATEGORY 6 CABLING FROM THE ORIGINAL POINT (E.G. SERVER OR SWITCH) TO THE DESTINATION IS 300 FEET. REFER TO COMMUNICATIONS SPECIFICATION FOR MORE DETAILS.
58. CONTRACTOR SHALL FURNISH AND DELIVER ALL WIRING AND CABLING REQUIRED FOR LOCAL AREA NETWORK CONNECTIONS OF ALL COMMUNICATIONS COMPONENTS AS PER CONTRACT REQUIREMENTS AND FIELD CONDITIONS AT THE TIME OF INSTALLATION OF THIS CONTRACT.
59. HORIZONTAL AND VERTICAL RUNS OF CONDUIT SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 10 FEET APART.
60. INSTALLATION AND MATERIALS SHALL CONFORM TO THE MANUFACTURERS REQUIREMENTS, NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES.
61. UNLESS OTHERWISE STATED, COPPER DATA CABLE SHALL BE UNSHIELDED TWISTED PAIR CABLE AT ALL LOCATIONS, WITH CORRESPONDING PATCH PANELS, CONNECTORS RATED FOR UNSHIELDED CABLE TERMINATION. PANEL SHALL BE GROUNDED AND BONDED PER MANUFACTURER GUIDELINES.
62. CAMERAS SHALL NOT BE POINTED DIRECTLY AT THE SUN AS THE CCTV IMAGER MAY BE PERMANENTLY DAMAGED.
63. DO NOT RUN ANY POWER CABLING IN THE SAME CONDUIT AS COMMUNICATIONS CABLING.
64. LABELING NOMENCLATURE. PROVIDE LABELING INFORMATION IDENTIFYING DATA AND POWER CABLES TO THEIR RESPECTIVE DEVICES.
65. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PORT ASSIGNMENT AND TERMINATION DRAWINGS.
66. FOR PROCUREMENT, INSTALLATION AND DIVISION OF WORK, REFER TO DIVISION 1 SECTION.
67. COORDINATE WITH TELECOM AND CABLE PROVIDERS FOR REMOVAL OF DOWNED, DISCONNECTED, OR UNUSED CABLING IN BETWEEN THE UTILITY POLE AND THE WORK AREA.

ABBREVIATIONS

AC	ALTERNATIVE CURRENT
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS POINT
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
CAT6	CATEGORY 6E CABLE
CAT6E	CATEGORY 6E CABLE (ENHANCED)
CCTV	CLOSED CIRCUIT TELEVISION
COMM	COMMUNICATION
CONT.	CONTINUED
DC	DIRECT CURRENT / DOOR CONTACT
DSP	DIGITAL SIGNAL PROCESSOR
DWG	DRAWING
ELEC	ELECTRICAL
EX	EXISTING
ECI	ELEVATOR CAB INTERCOM
EHI	ELEVATOR HALL INTERCOM
FOC	FIBER OPTIC CABLE
G. GND	GROUND
GIG E	GIGA BIT ETHERNET
HP	HELP POINT
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IP	INTERNET PROTOCOL
I/O	INPUT / OUTPUT FUNCTION
JB	JUNCTION BOX
MTA	METROPOLITAN TRANSPIRATION AUTHORITY
MM	MULTI MODE
MNR	METRO NORTH RAIL ROAD
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
NO.	NUMBER
NVR	NETWORK VIDEO RECORDER
PA	PUBLIC ADDRESS
PB	PULL BOX
PDU	POWER DISTRIBUTION UNIT
POD	POLICE OBSERVATION DEVICE
POE	POWER OVER ETHERNET
POE+	POWER OVER ETHERNET (PLUS)
PTZ	PAN/TILT/ZOOM
PP	PATCH PANEL
RM	ROOM
SM	SINGLE MODE
TB	TERMINAL BLOCK
TBD	TO BE DETERMINED
TELE	TELEPHONE
TYP.	TYPICAL
UL	UNDERWRITERS LABORATORIES
U.O.N.	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLT
VOIP	VOICE OVER IP
W/	WITH
W / O	WITHOUT
WAN	WIDE AREA NETWORK

SYMBOLS

	CCTV CAMERA WITH HOUSING
	PUBLIC ADDRESS SPEAKER
W	WALL PHONE
	CONDUIT UP
	CONDUIT DOWN
ECI	ELEVATOR CAB INTERCOM
	TELEPHONE TERMINAL BOARD
	TELEPHONE TERMINAL BOX

100% DESIGN SUBMISSION

DESIGNED	FM
DRAWN	FM
CHECKED	TS
APPROVED	TSE

STATE OF NEW YORK — TRAVIS G. SPOKES — LICENSED PROFESSIONAL ENGINEER — 095152

NO.	DATE		DRWN	CHKD	APPVD
		CONFORMED			

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New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
COMMUNICATIONS SYSTEM
GENERAL NOTES

CONTRACT NO. 1000106733

SCALE: AS NOTED

DATE: 11-20-2019

DRAWING NO. COM-001

SHEET 67 OF 76

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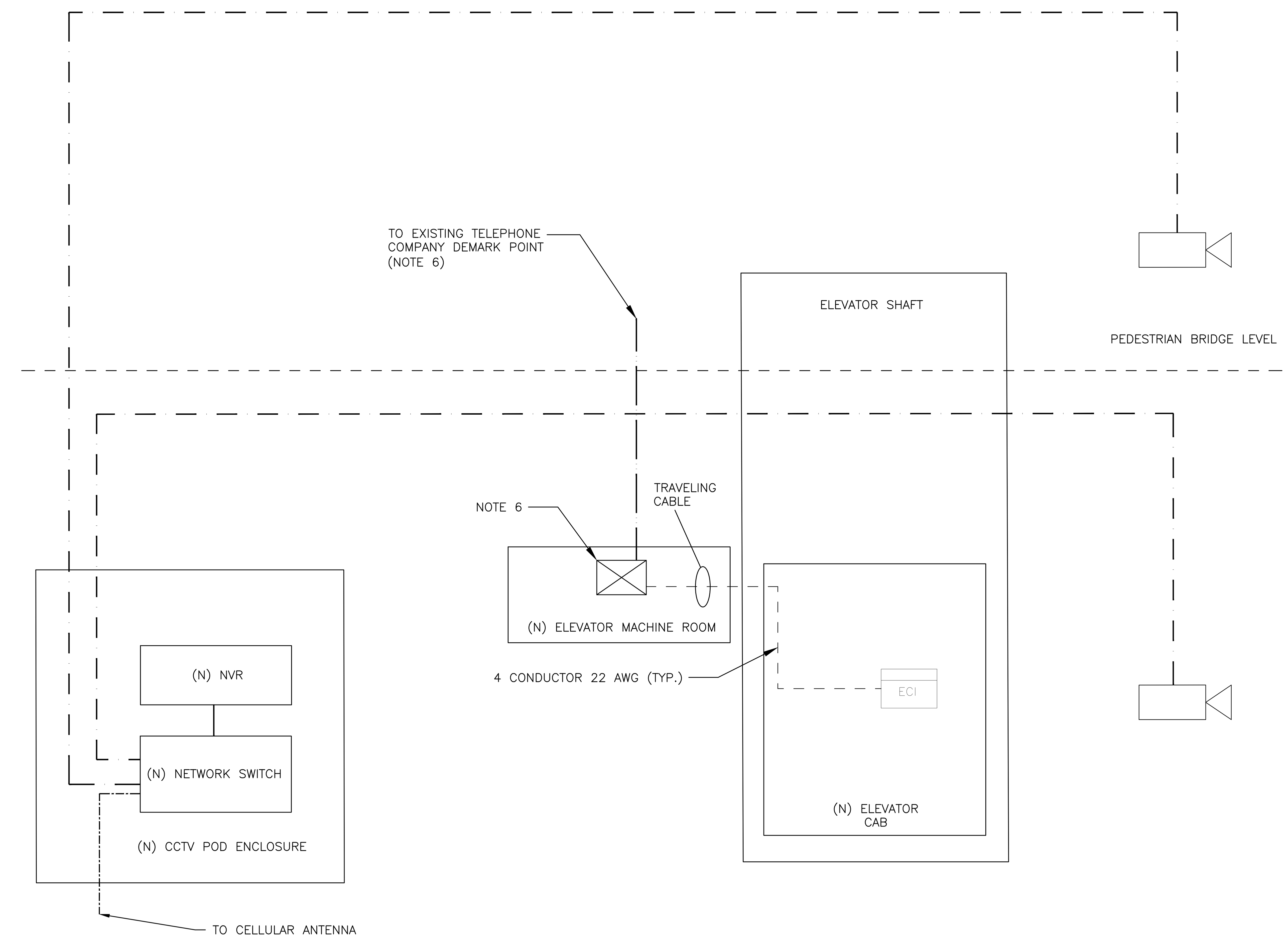
LEGEND	
— · —	CAT-6 ETHERNET CABLE
– – – –	TRAVELING CABLE
—— ——	12-PAIR TELEPHONE CABLE
(N)	NEW EQUIPMENT
(E)	EXISTING EQUIPMENT



1 **TYPICAL DIAGRAM FOR CCTV SYSTEM**

N.T.S.

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COMM-001
2. FOR INTERCOM DEVICE LAYOUT, REFER TO DWG COM-200.
3. FOR SECURITY SYSTEMS DEVICE AND CONDUIT LAYOUT, REFER TO DWGS COM-210 AND COM-211.
4. INTERCOM POWER CABLE TERMINATION SHALL BE PER ELEVATOR MANUFACTURER INSTRUCTION.
5. CONTRACTOR SHALL PROCURE CCTV POD EQUIPMENT THROUGH ALLOWANCE LINE ITEM, REFER TO DIVISION 1 FOR MORE DETAILS.
6. 12-PAIR TELEPHONE CABLE AND TERMINAL BOX IN ELEVATOR MACHINE ROOM SHALL BE FURNISHED AND INSTALLED BY TELECOM PROVIDER. COORDINATE WITH TELECOM PROVIDER. SEE ELECTRICAL DRAWINGS FOR CONDUIT DETAILS.

100% DESIGN SUBMISSION

DESIGNED FM
DRAWN FM
CHECKED TS
APPROVED TSE

STATE OF NEW YORK — TRAVIS G. SPOKES — 095152 — LICENSED PROFESSIONAL ENGINEER

CONFORMED

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347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
OVERALL COMMUNICATIONS SYSTEMS DIAGRAM

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. COM-100
SHEET 68 OF 76

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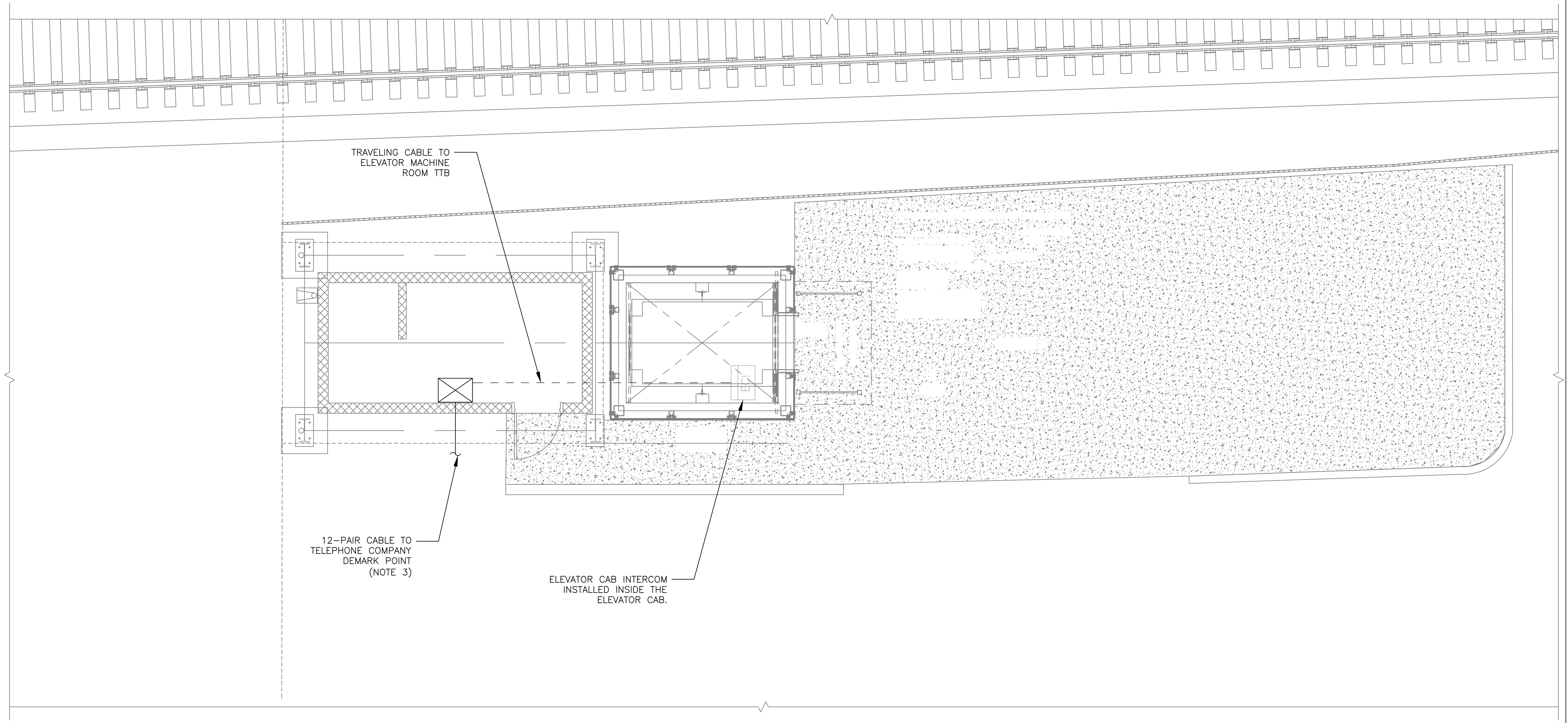

1/200 STATION LEVEL - INTERCOM SYSTEM
SCALE: 1/4" = 1'-0"
0 4' 8' 16'
1/4" = 1'-0"

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COMM-001
2. FOR INTERCOM SYSTEM DIAGRAM, REFER TO DWG COM-100.
3. 12-PAIR TELEPHONE CABLE AND TELEPHONE TERMINAL BOX IN ELEVATOR MACHINE ROOM SHALL BE FURNISHED AND INSTALLED BY TELECOM PROVIDER. SEE ELECTRICAL DRAWINGS FOR CONDUIT DETAILS.

100% DESIGN SUBMISSION

DESIGNED	FM
DRAWN	FM
CHECKED	TS
APPROVED	TSE

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NO.	DATE	REVISIONS	DRWN	CHKD	APPVD	NO.	DATE	REVISIONS	DRWN	CHKD	APPVD

CONFORMED

AECOM

MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
INTERCOM SYSTEM DEVICE AND
CONDUIT LAYOUT - STATION LEVEL

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. COM-200
SHEET 69 OF 76

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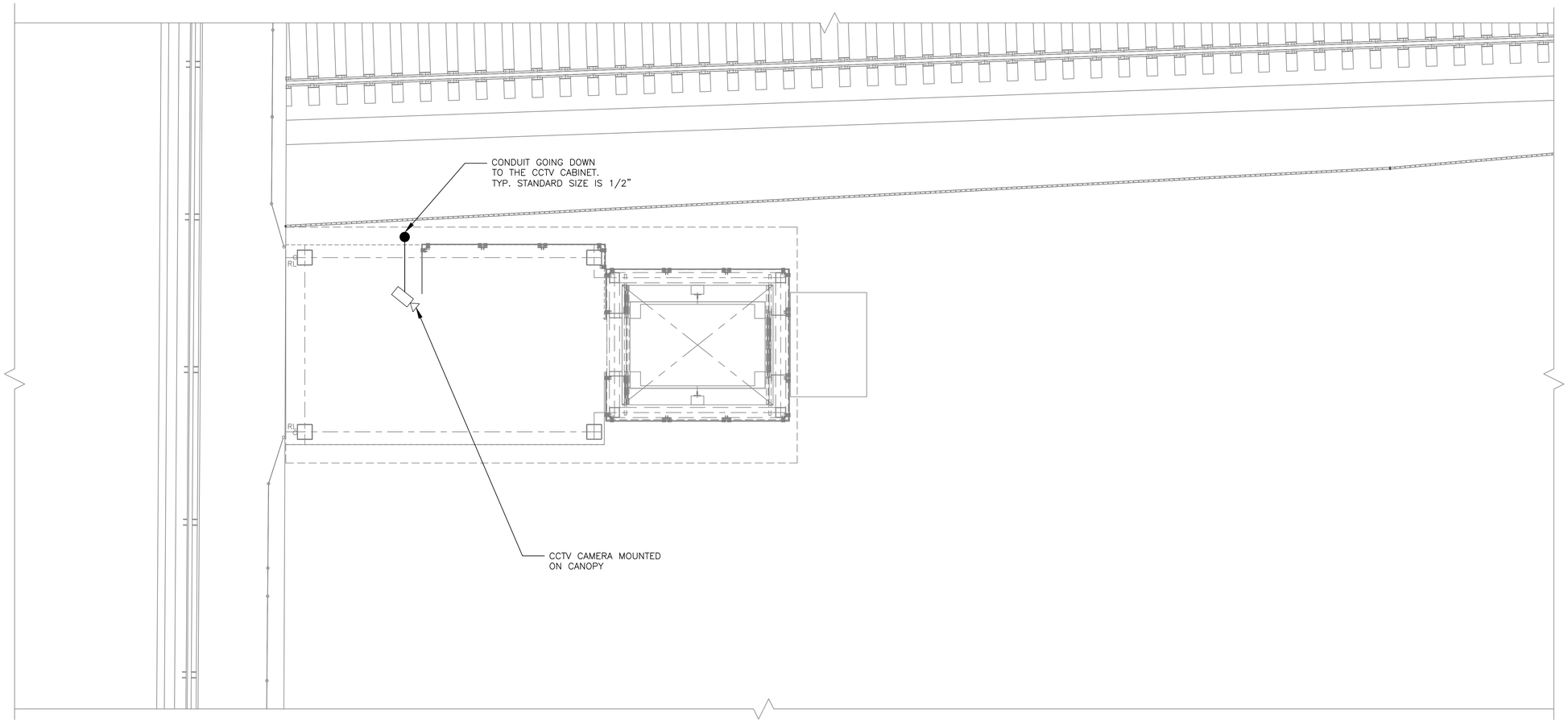

1/210 OVERPASS LEVEL - CCTV CAMERAS
SCALE: 1/4" = 1'-0"

0 8' 16' 32'

1/8" = 1'-0"

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COM-001
2. FOR OVERALL SYSTEM DIAGRAM, REFER TO DWG COM-100.

100% DESIGN SUBMISSION

DESIGNED	FM
DRAWN	FM
CHECKED	TS
APPROVED	TSE

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
SECURITY SYSTEMS DEVICE AND
CONDUIT LAYOUT - OVERPASS LEVEL

CONTRACT NO.	1000106733
SCALE	AS NOTED
DATE	11-20-2019
DRAWING NO.	COM-210
SHEET	71 OF 76

Wahida.Mitu 11/15/2019 10:09:58 AM

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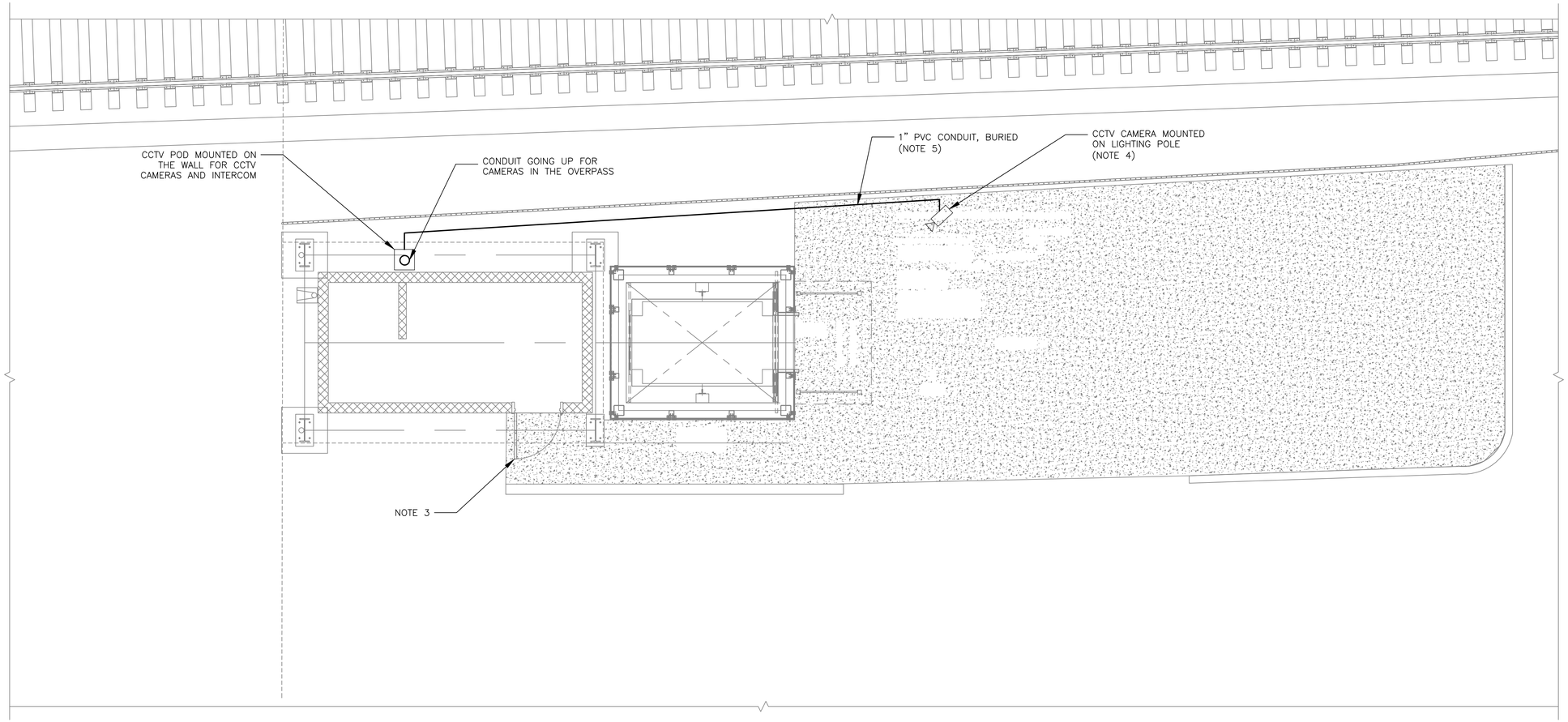

1/211 STATION LEVEL - CCTV CAMERAS

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

0 4' 8' 16'

1/4" = 1'-0"

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COM-001.
2. FOR OVERALL SYSTEM DIAGRAM, REFER TO DWG COM-100.
3. THE ELEVATOR MACHINE ROOM DOOR SHALL BE MNR STANDARD CYBER LOCK MORTISE CYLINDER. PROVIDE SPARE CYBER KEYS. PRIOR APPROVAL OF THE PRODUCT SHALL BE REQUIRED BY MNR.
4. REFER TO DWG COM-310 FOR MOUNTING DETAILS. REFER TO DWG L-101 FOR LIGHTING POLE LOCATION PLAN.
5. SEE DWG E-201 FOR CONDUIT DETAILS. FOLLOW ELECTRICAL CONDUIT AND COORDINATE WITH LIGHTING POLE LOCATIONS.

100% DESIGN SUBMISSION

DESIGNED FM
DRAWN FM
CHECKED TS
APPROVED TSE

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TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
SECURITY SYSTEMS DEVICE AND CONDUIT LAYOUT - STATION LEVEL

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. COM-211
SHEET 72 OF 76

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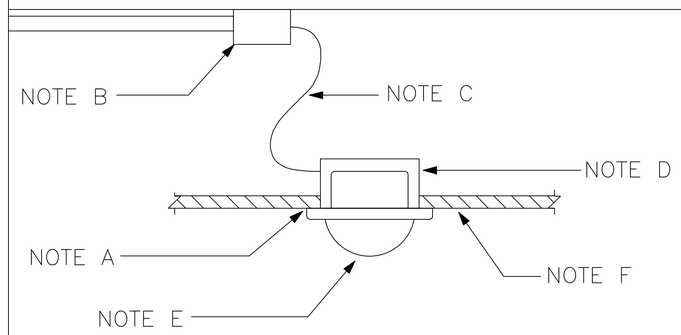
1 Canopy Mounted Typical Camera Detail

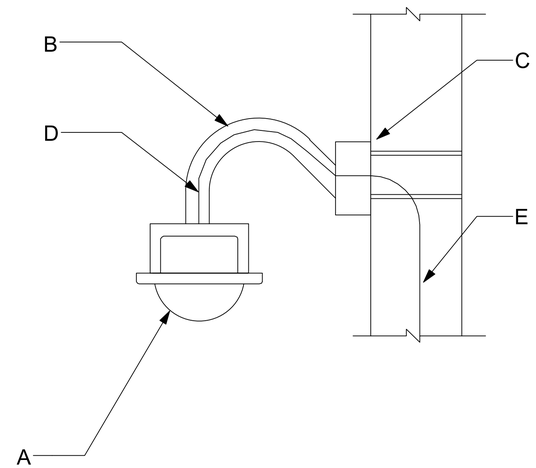
COM-310 SCALE: NOT TO SCALE



CAMERA NOTES	
CAMERA NOTES: A. CAMERA HOUSING WITH MANUFACTURER-SUPPLIED MOUNTING PLATE B. SIGNAL CABLE IN CONDUIT TO OUTLET C. PATCH CORD IN FLEXIBLE CONDUIT (REFER TO COMMUNICATIONS SPECS) D. STANDARD 4X4 BACKBOX (REFER TO ELECTRICAL) E. CAMERA DOME F. FINISHED CEILING	

2 Pole Mounted Typical Camera Detail

COM-310 SCALE: NOT TO SCALE



CAMERA NOTES	
A. CAMERA BODY B. GOOSENECK C. MANUFACTURER-SUPPLIED POLE MOUNTING BRACKET D. CABLE TO CAMERA INSIDE BRACKET E. HOME RUN CABLE INSIDE POLE	

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COM-001
2. FOR OVERALL SYSTEM DIAGRAM, REFER TO DWG COM-100.
3. FOR CCTV CAMERA LAYOUT, REFER TO DWG COM-210 AND COM-211.

100% DESIGN SUBMISSION

DESIGNED	FM
DRAWN	YM
CHECKED	TS
APPROVED	TSE

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New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
CCTV CAMERA MOUTING DETAILS

CONTRACT NO.	
1000106733	
SCALE	DATE
AS NOTED	11-20-2019

DRAWING NO.
COM-310
SHEET 73 OF 76

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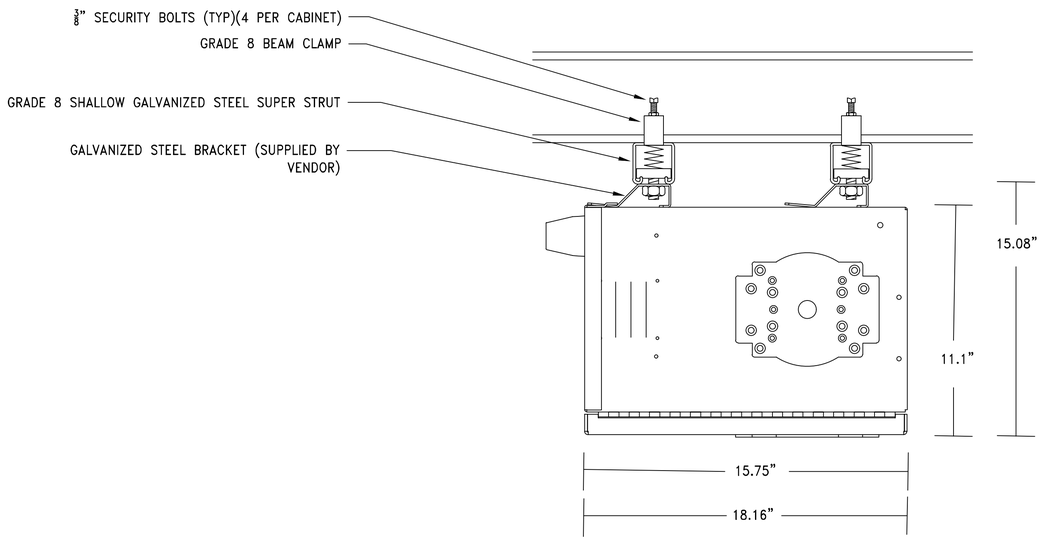
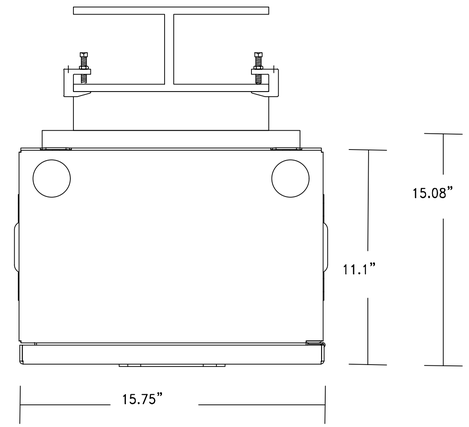
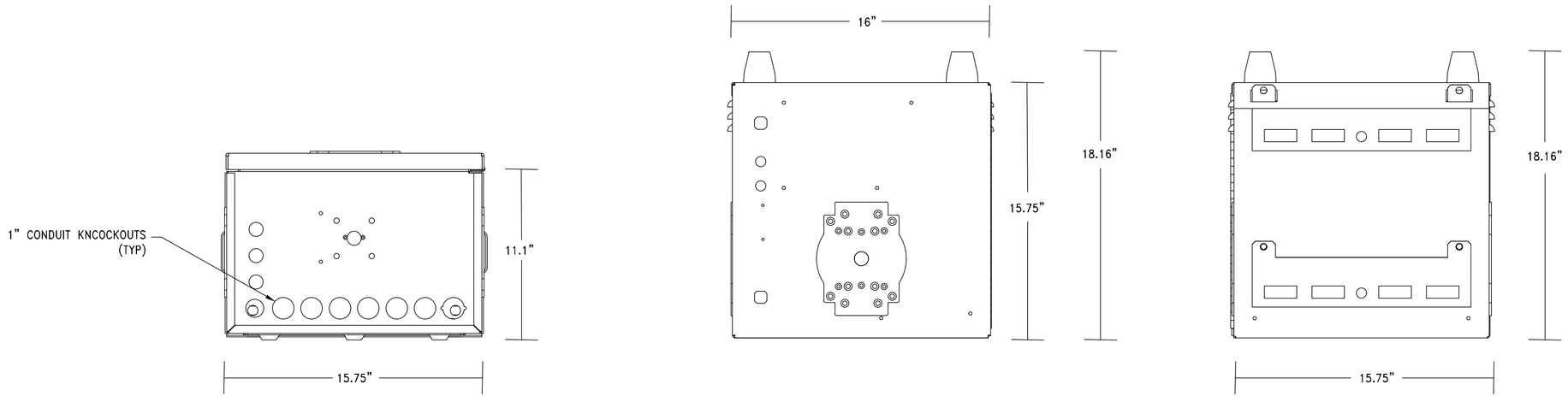


1 TYPICAL MOUNTING DETAIL
SCALE: NOT TO SCALE



2 TYPICAL MOUNTING DETAIL
SCALE: NOT TO SCALE



3 ADDITIONAL ENCLOSURE VIEWS
SCALE: NOT TO SCALE

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COM-001
2. FOR OVERALL SYSTEM DIAGRAM, REFER TO DWG COM-100.
3. FOR CCTV CABINET LAYOUT, REFER TO DWG COM-211.

100% DESIGN SUBMISSION

DESIGNED	FM
DRAWN	YM
CHECKED	TS
APPROVED	TSE

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH STATION IMPROVEMENTS
PURDY'S STATION
CCTV POD MOUNTING DETAILS

CONTRACT NO. 1000106733
SCALE AS NOTED
DATE 11-20-2019
DRAWING NO. COM-311
SHEET 74 OF 76

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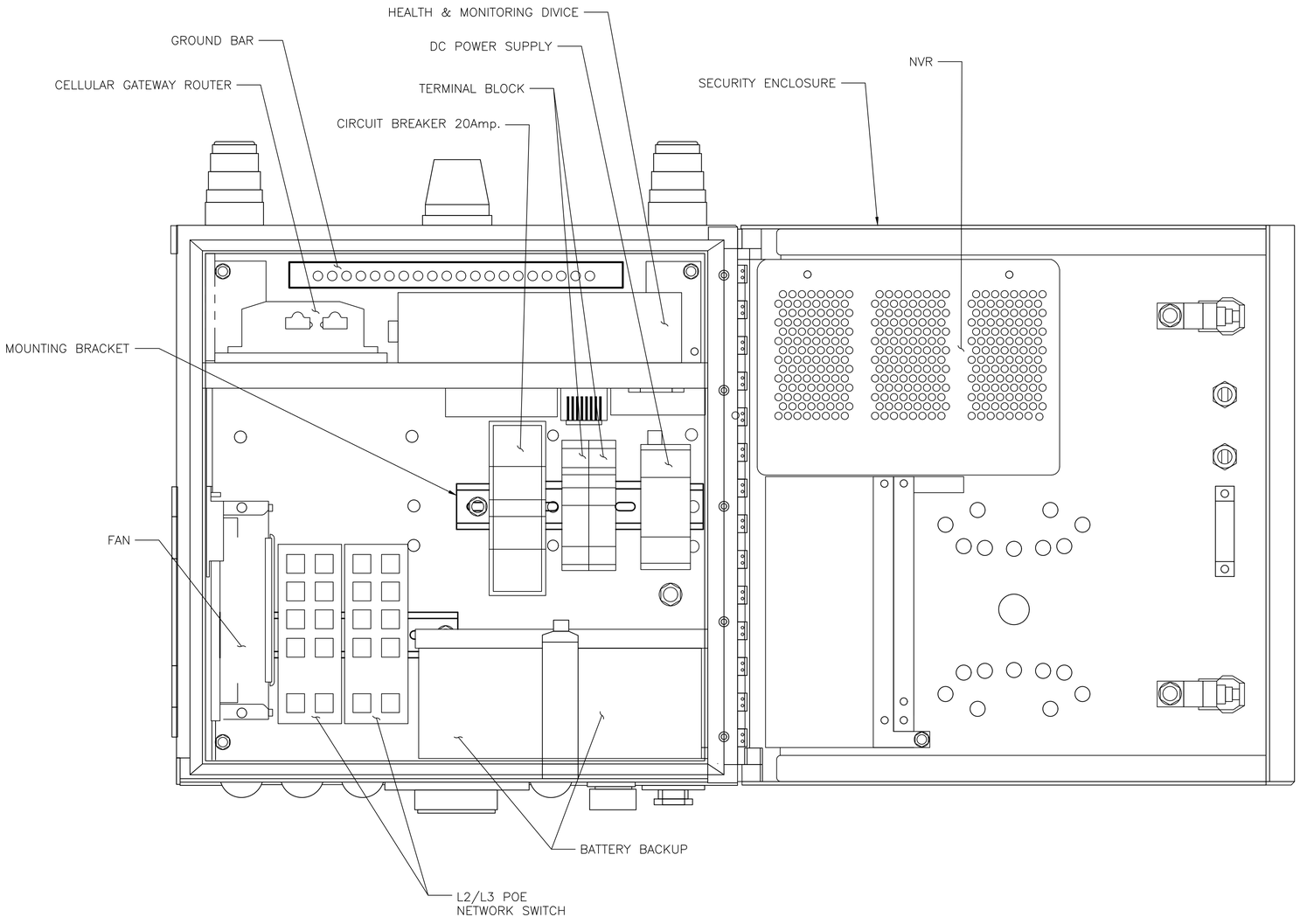

SHEET NOTES

COMMUNICATIONS SYSTEM

1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COM-001
2. FOR OVERALL SYSTEM DIAGRAM, REFER TO DWG COM-100.
3. FOR CCTV CABINET LAYOUT, REFER TO DWG COM-211.
4. FOR CCTV POD MOUNTING DETAILS, REFER TO DWG COM-311.

100% DESIGN SUBMISSION

DESIGNED	FM
DRAWN	YM
CHECKED	TS
APPROVED	TSE

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NO.	DATE		DRWN	CHKD	APPVD

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NO.	DATE	CONFORMED	DRWN	CHKD	APPVD

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MTA Metro-North Railroad
347 Madison Avenue
New York, NY 10017

TITLE
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
CCTV POD ENCLOSURE
DETAILS

CONTRACT NO.	1000106733
SCALE	AS NOTED
DATE	11-20-2019
DRAWING NO.	COM-312
SHEET	75 OF 76

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