



PURDY'S STATION IMPROVEMENTS

100% DESIGN SUBMISSION CONTRACT 1000106733



LOCATION MAP NOT TO SCALE



NEW YORK STATE STANDARD SHEETS NEW YORK STATE DEPARTMENT OF TRANSPORTATION

DRAWING DESCRIPTION SHEET NO.

CORRUGATED BEAM GUIDE RAILING 606-6 CHAN LINK FENCE WITH TOP RAIL 607-10



100% DESIGN SUBMISSION NOVEMBER 20, 2019

DRAWING NO. G-101

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100% DESIGN SUBMISSION

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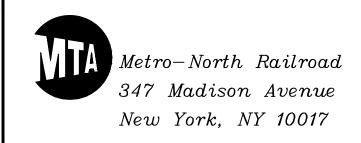
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METRO-NORTH STATION IMPROVEMENTS

PURDYS STATION DRAWING LIST

CONTRACT NO.
1000106733

SCALE DATE
AS NOTED 11-20-2019

DRAWING NO. **G-102**SHEET 2 OF 76

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.
- 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

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

CONTRACT NO.
1000106733

SCALE DAT

11-20-2019

AS NOTED 11-2

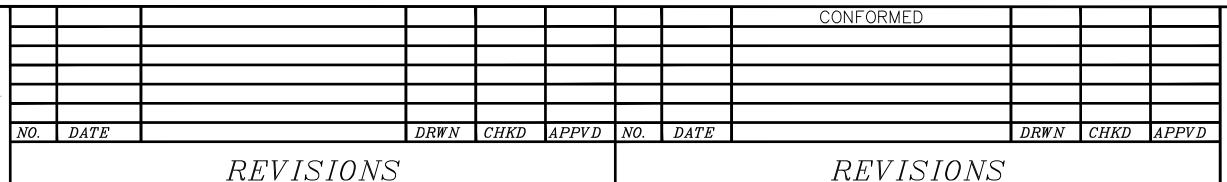
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G-104

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.
- 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.
- 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
- 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.
- 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.
- 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.

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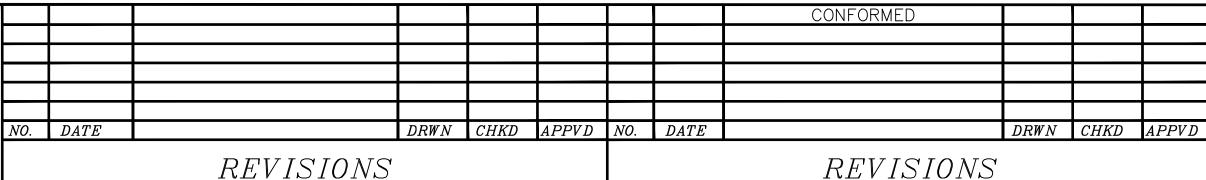
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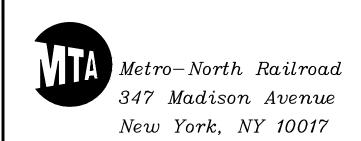
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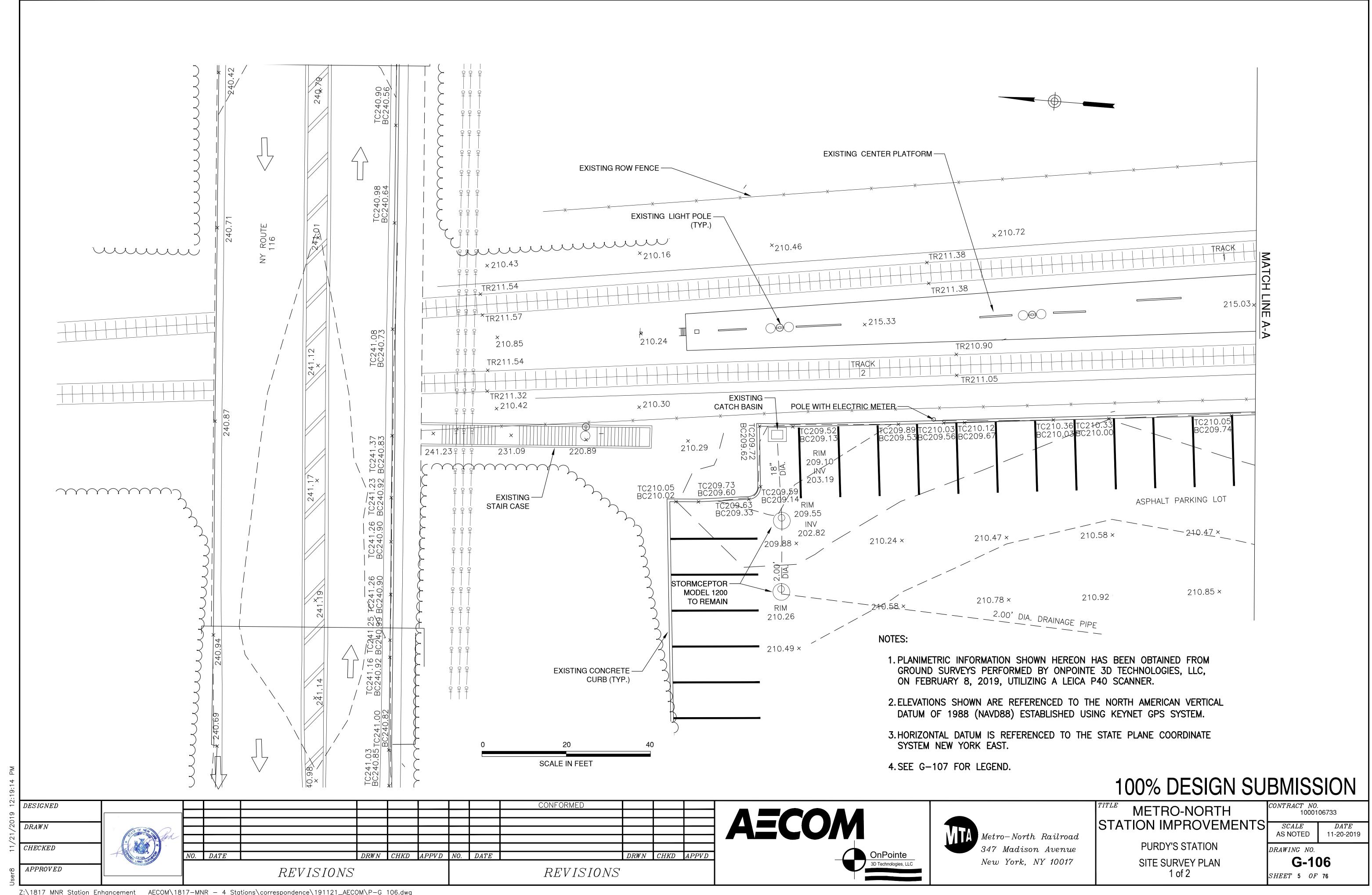


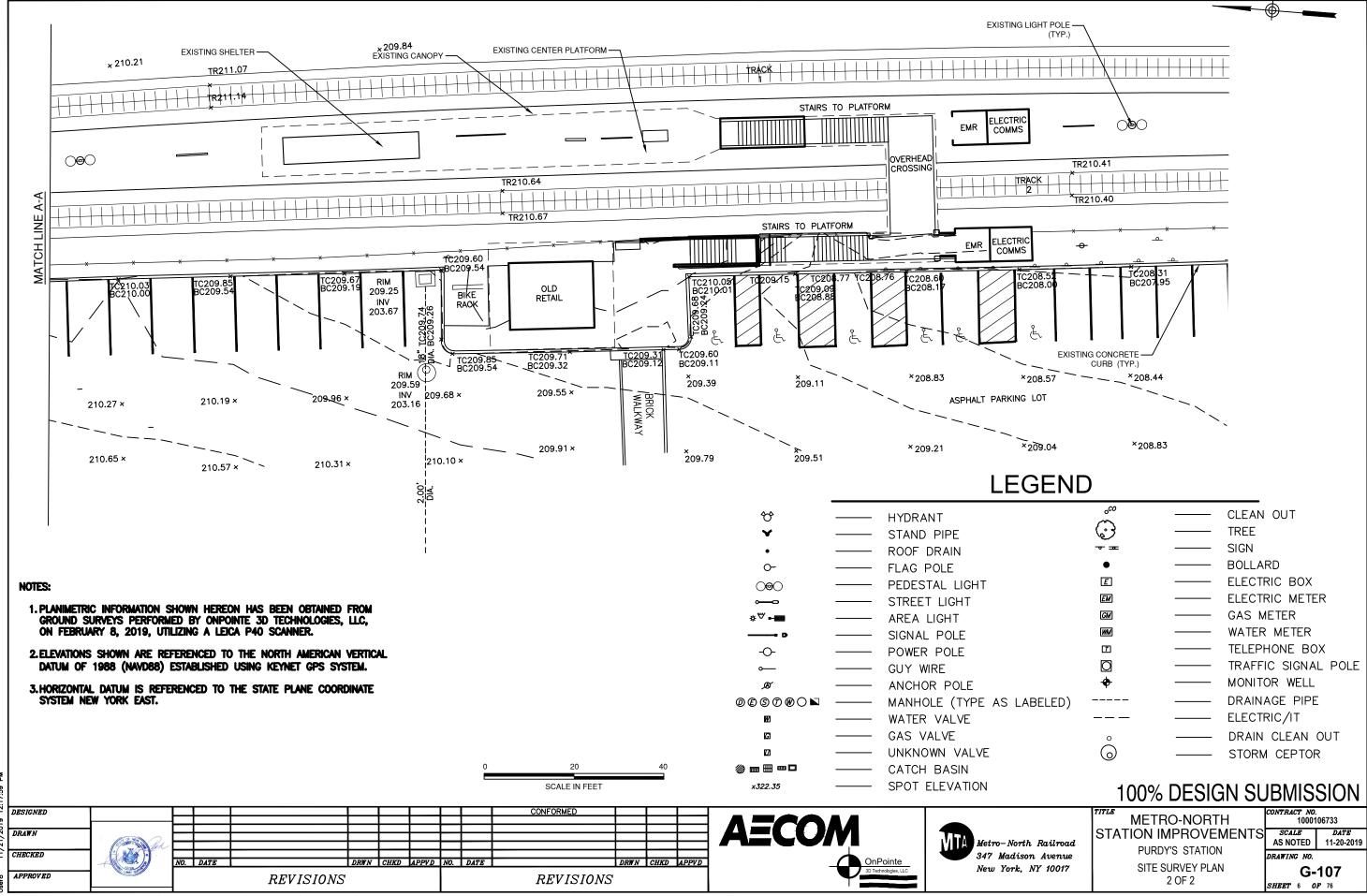
METRO-NORTH STATION IMPROVEMENTS PURDY'S STATION **GENERAL NOTES - 2**

CONTRACT NO. 1000106733 SCALEAS NOTED | 11-20-2019

DRAWING NO. G-105

SHEET 4 OF 76





GENERAL NOTES

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- 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
- 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
- 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

- 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:

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- 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
- 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 BRÎCK 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
- 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.

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GROUP

 ${\it Metro-North}$ ${\it Railroad}$ 347 Madison Avenue New York, NY 10017

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

CONTRACT NO. 1000106733 SCALEDATEAS NOTED 11/20/2019

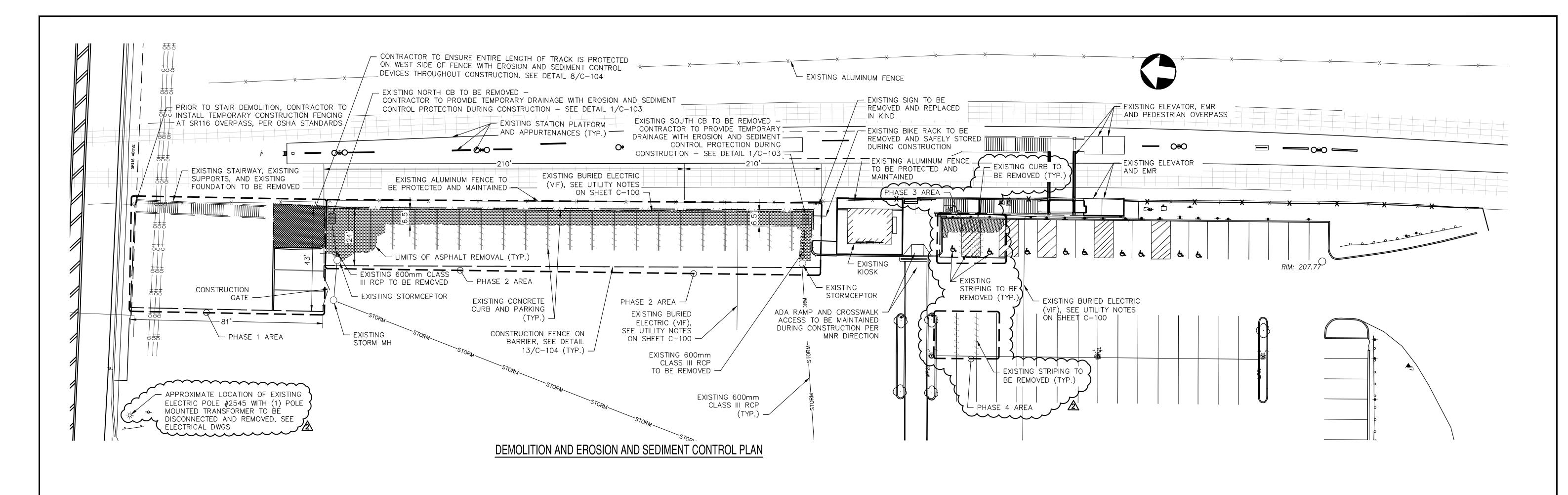
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PHASE 1

- 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
- 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.
- INSTALL ALL CONSTRUCTION FENCING.

(SEE STRUCT AND ARCH DWGS).

- 8. DEMO EXISTING STAIR, SIDEWALK AND CURB. 9. INSTALL ELEVATOR AND RELATED MECHANICAL APPURTENANCES, AND STRUCTURAL BRIDGE SUPPORTS
- 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.
- INSTALL/RELOCATE CONSTRUCTION FENCING.
- 4. SURVEY THE PHASE 2 AREA TO CONFIRM EXISTING
- . PERFORM PHASE 2 AREA SITE CONDITION INSPECTIONS PER CONTRACT SPECIFICATIONS. CONTRACTOR MUST MOBILIZE WITHIN PHASE 2 AREA ONLY.
- REMOVE EXISTING PARKING SIGNAGE AND STORE SAFELY. 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
- 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
- 19. REMOVE SEDIMENT AND EROSION CONTROL DEVICES, RESTORE DISTURBED SURFACES TO PERMANENT CONDITION, AND REINSTALL EXISTING SIGNAGE IN KIND.

PHASE 3

- 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
- 3. RE-INSTALL BIKE RACK REMOVED DURING PHASE 2 PER MNR
- 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.
- INSTALL ALL CONSTRUCTION FENCING. 8. REMOVE AND SAFELY STORE PARKING SIGNS (3 TOTAL).

10. INSTALL NEW SIDEWALK AND CURB, RESTORE ASPHALT

9. DEMOLISH EXISTING CONCRETE AND ASPHALT AND ERADICATE

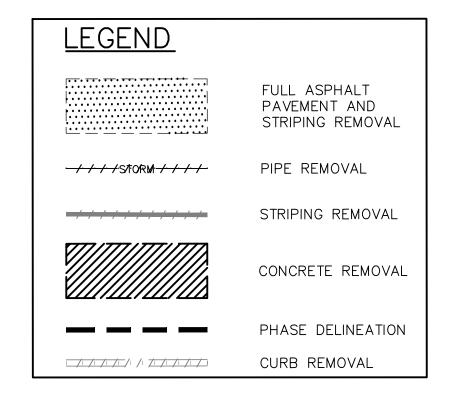
SURFACES AND INSTALL NEW PARKING STRIPING (SEE DWG 11. REMOVE SEDIMENT AND EROSION CONTROL DEVICES AND RESTORE REMAINING DISTURBED SURFACES (INCLUDING

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
- 3. SURVEY THE PHASE 4 AREA TO CONFIRM EXISTING
- 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.

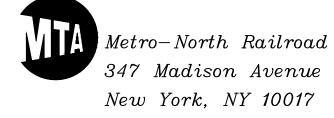
1. ALL EXISTING UTILITIES SHOWN ARE TAKEN FROM RECORD DRAWINGS PROVIDED BY METRO-NORTH RAILROAD, DATED 4/21/1999. ANY DISCREPANCIES BETWEEN DESIGN DRAWINGS AND FIELD OBSERVATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.



100% DESIGN SUBMISSION

1" = 20' - 0"CONFORMED *DESIGNED* W SCA OS A. BEZATI W SCHI OST DRAWND. BRUYNING 2 02/19/2020 DUCT_BANK_AND_PARKING AG JCS 1 10/14/2019 BIKE RACK PD CHECKEDJCS NO. DATE DRWN CHKD APPVD NO. DATE DRWN CHKD APPVD L. MAGUIRE .07663⁴.. SSONAL ENGIN APPROVEDREVISIONS REVISIONS J. SPICER

AECOM GROUP

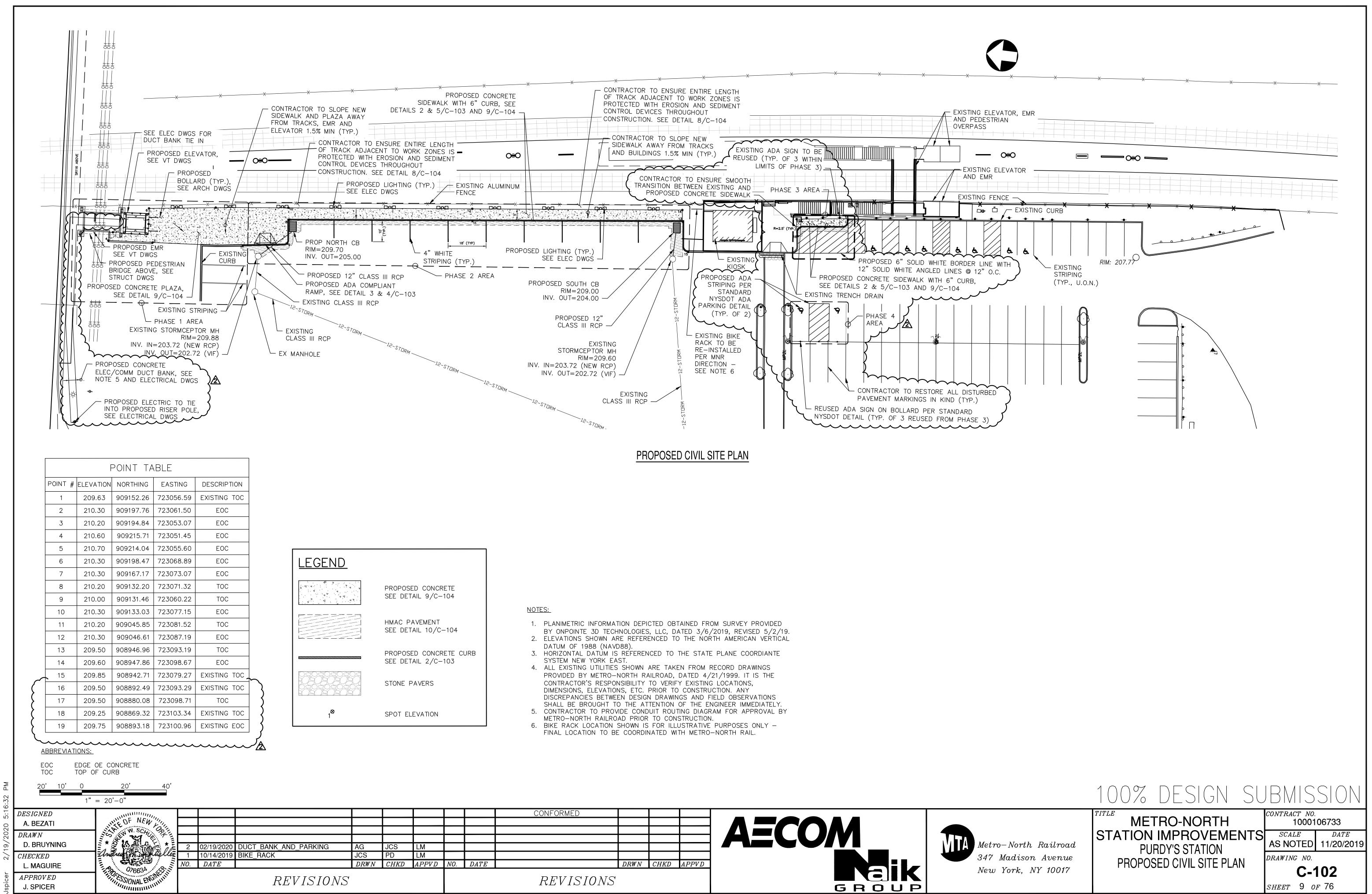


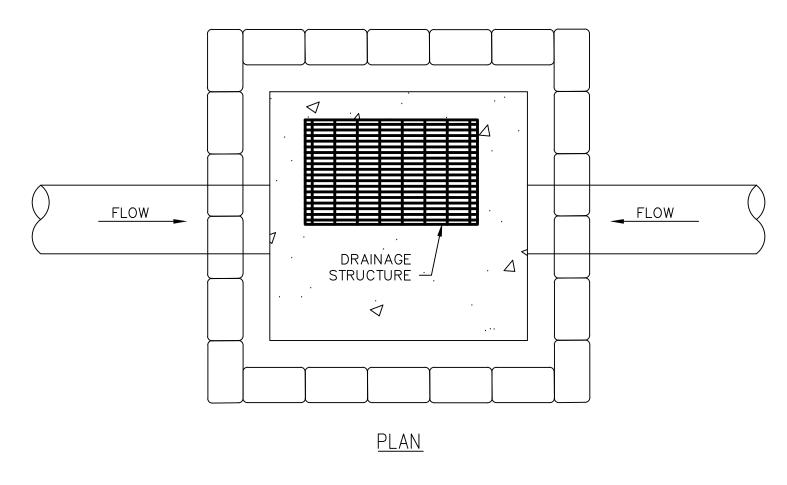
METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION DEMOLITION AND EROSION AND** SEDIMENT CONTROL PLAN

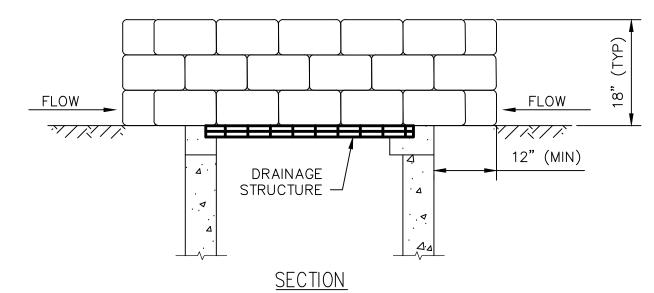
CONTRACT NO. 1000106733 SCALEDATE

SHEET 8 OF 76

AS NOTED 11/20/2019 DRAWING NO. C-101



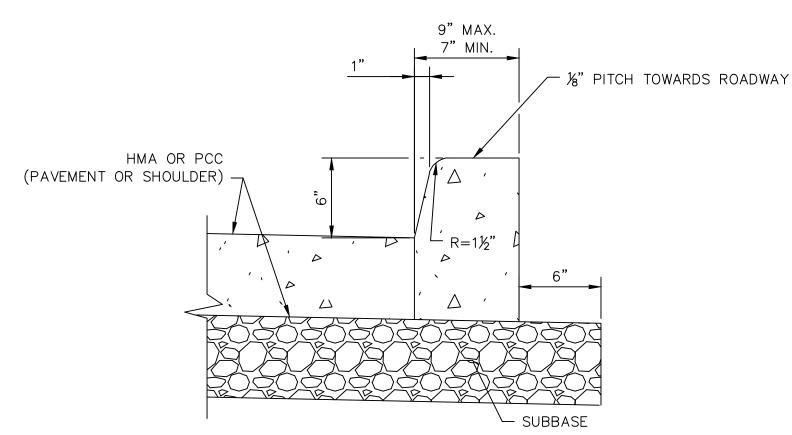




DETAIL 1: GRAVEL BAG INLET PROTECTION
N.T.S.

GRAVEL BAG INLET PROTECTION NOTES:

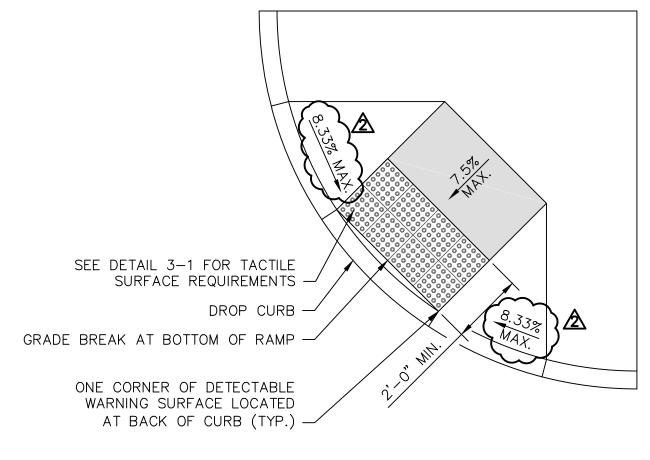
- 1. GRAVEL BAGS ARE FILLED WITH CLEAN STONE RATHER THAN SAND TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM IF BAGS ARE DAMAGED DURING USE.
- 2. GRAVEL BAGS SHALL BE INDIVIDUALLY TIED, DOUBLE BAGGED AND DIVERSELY INSERTED. GRAVEL BAGS SHALL LAP THE JOINTS BETWEEN THE BAGS IN THE LAYER BELOW.
- 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.



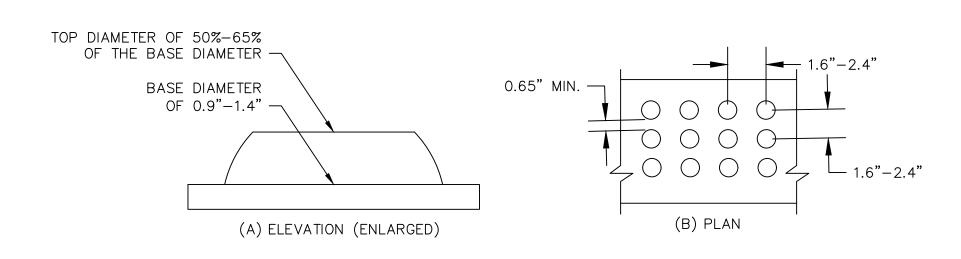
DETAIL 2: VERTICAL FACED CURB WITHOUT

CURB ANCHOR

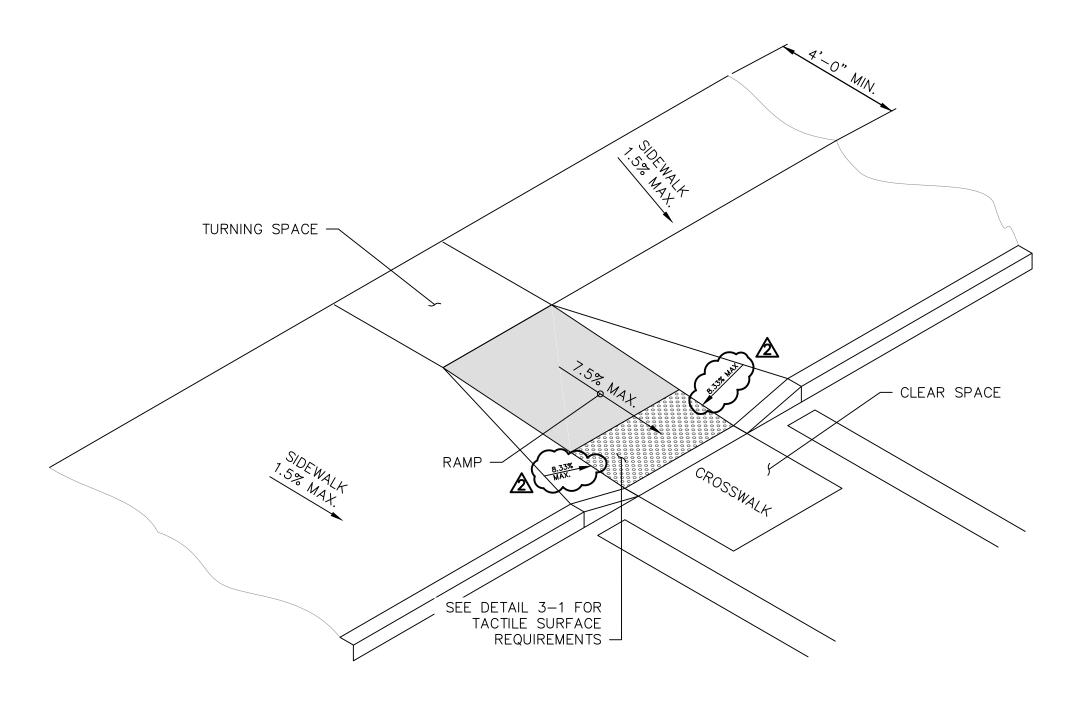
N.T.S.



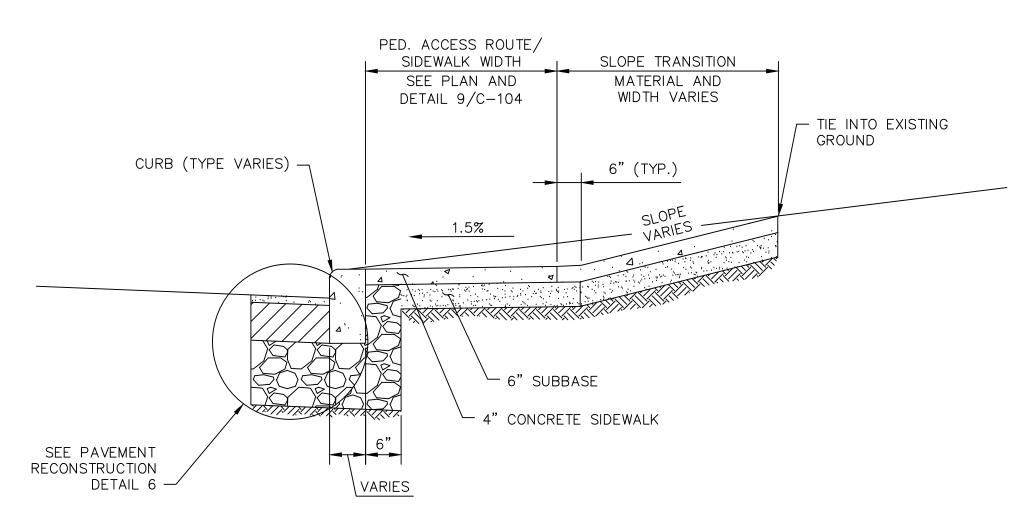
DETAIL 3: ADA CURB CUT DETAIL
N.T.S.



DETAIL 3-1: TACTILE SURFACE REQUIREMENT



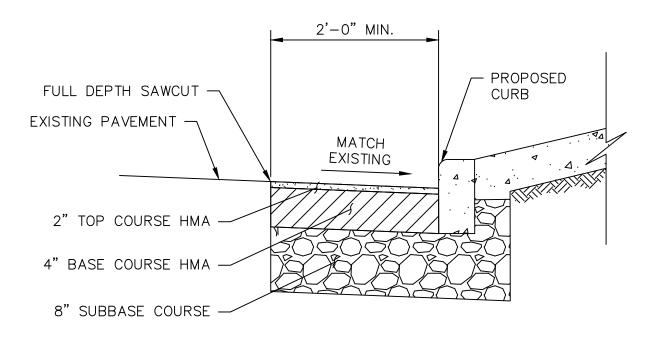
DETAIL 4: ADA CURB CUT DETAIL



DETAIL 5: TYPICAL SIDEWALK CROSS—SECTION

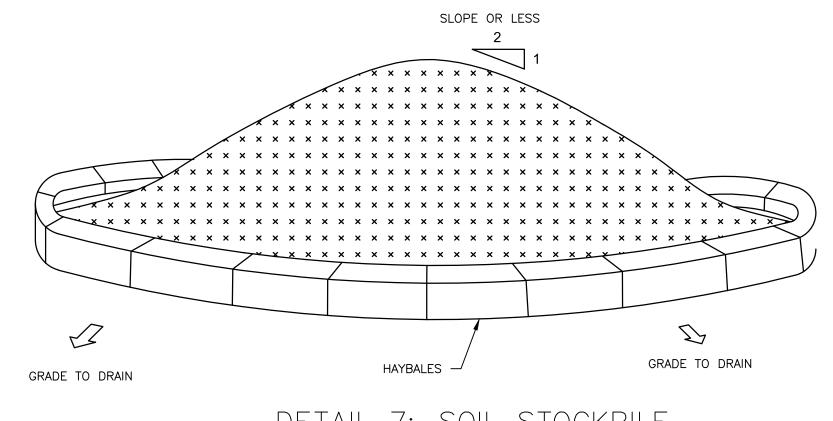
AT CURB

N.T.S.



DETAIL 6: PAVEMENT RECONSTRUCTION

N.T.S.

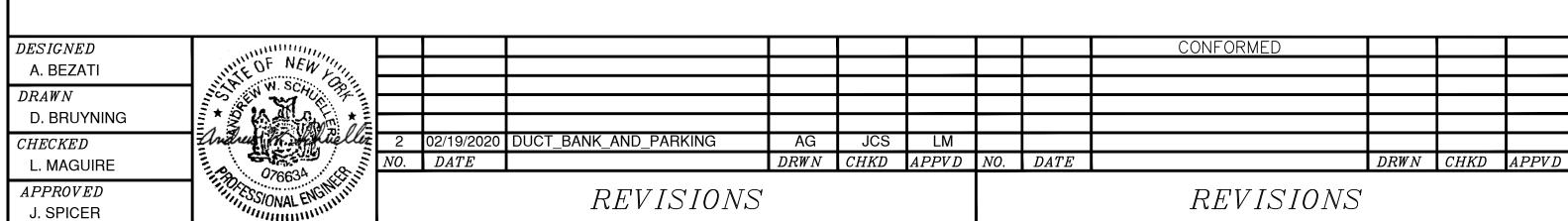


DETAIL 7: SOIL STOCKPILE
N.T.S.

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



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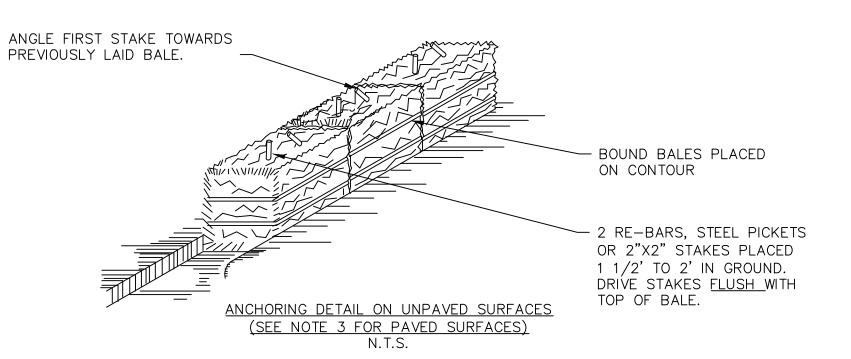


Metro-North Railroad 347 Madison Avenue New York, NY 10017 METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION

TYPICAL DETAILS 1

CONTRACT NO. 1000106733 SCALE DATE AS NOTED 11/20/2019 DRAWING NO.

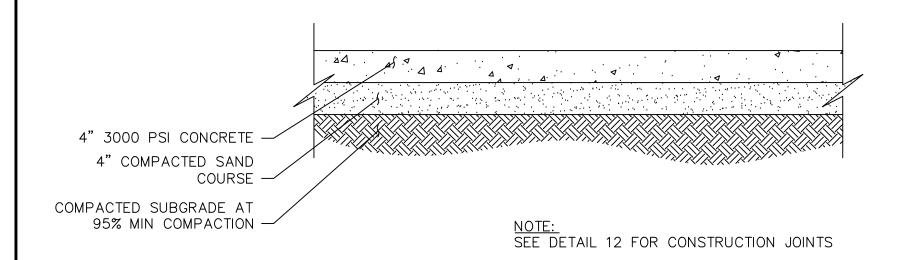
C-103SHEET 10 OF 75



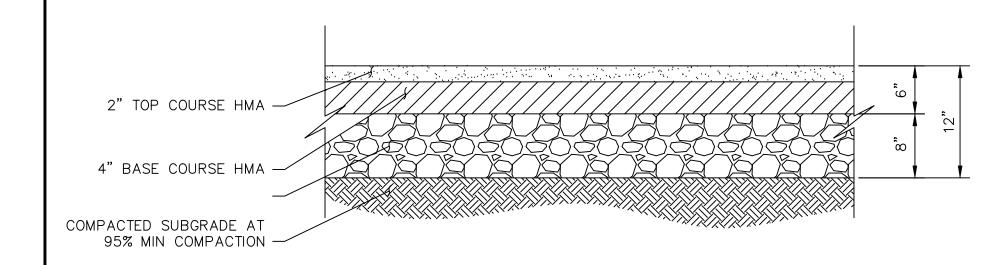
DETAIL 8: HAYBALE DETAIL

HAYBALE DETAIL NOTES:

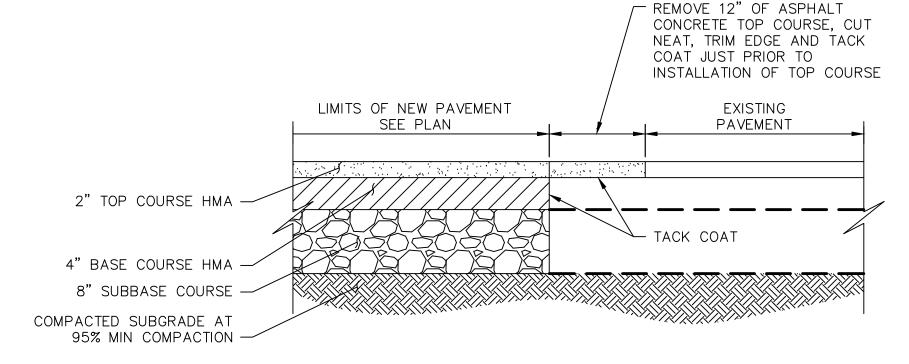
- 1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 2. IN UNPAVED AREAS, EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- IN PAVED AREAS, ABUT STRAW BALES TOGETHER AND DRIVE STAKE OR REBAR INTO ADJOINING BALE TO FORCE THE BALES TOGETHER.
- 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.
- 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.



DETAIL 9: TYPICAL CONCRETE SIDEWALK SECTION



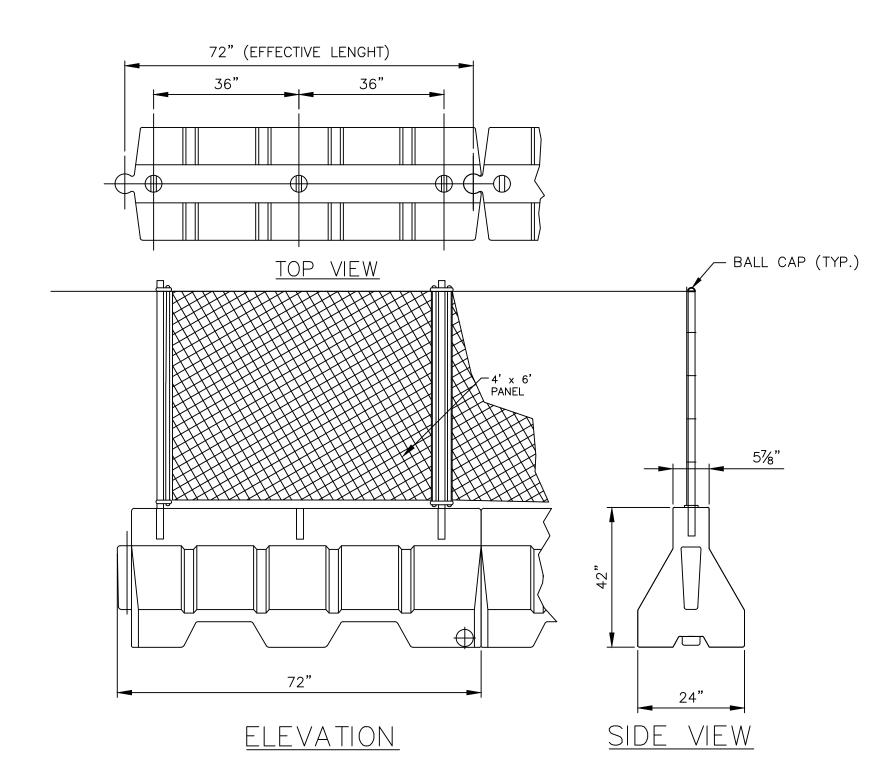
DETAIL 10: TYPICAL ASPHALT PAVEMENT SECTION



DETAIL 11: TYPICAL NEW TO EXISTING PAVEMENT DETAIL

り PREMOLDED BITUMINUOUS 1" DEEP SAW-JOINT FIBERBOARD FILLER. ¼"R (TYP.) FILLED WITH JOINT SEALER -- ¼"R (TYP FILL WITH JOINT SEALER -SAND COURSE SAND COURSE 1/8" TO 1/4" MAX COMPACTED COMPACTED SUBGRADE SUBGRADE CONTRACTION JOINT CONSTRUCTION/EXPANSION JOINT MAX SPACING 5' O.C. MAX SPACING 15' O.C.

DETAIL 12: CONCRETE SIDEWALK CONSTRUCTION JOINT N.T.S.



<u>DETAIL 13: WATER FILLED BARRIER WITH FENCE ON</u> TOP

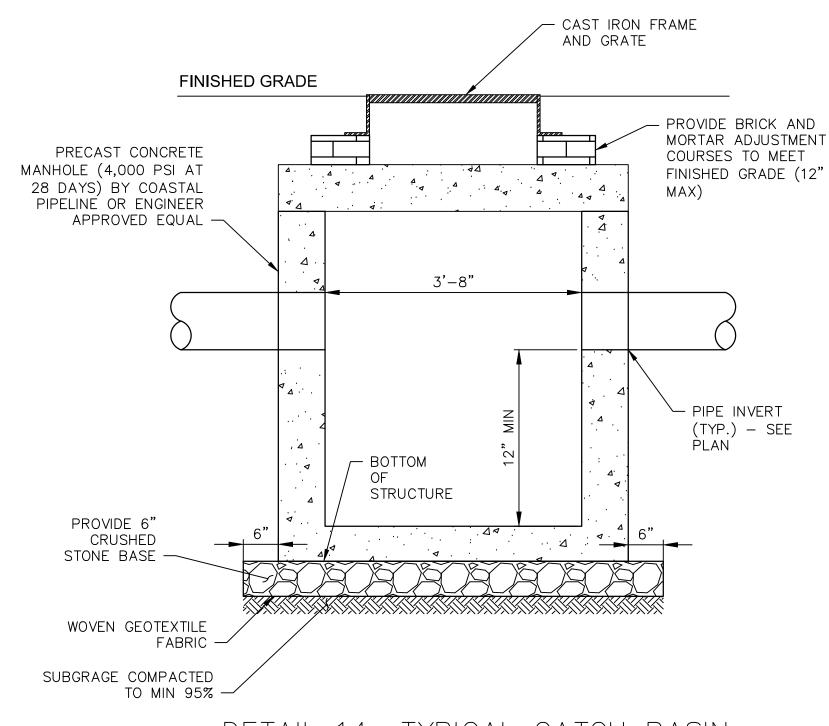
SCREEN FABRIC (ATTACHED TO CHAIN LINK FENCE):

- 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:

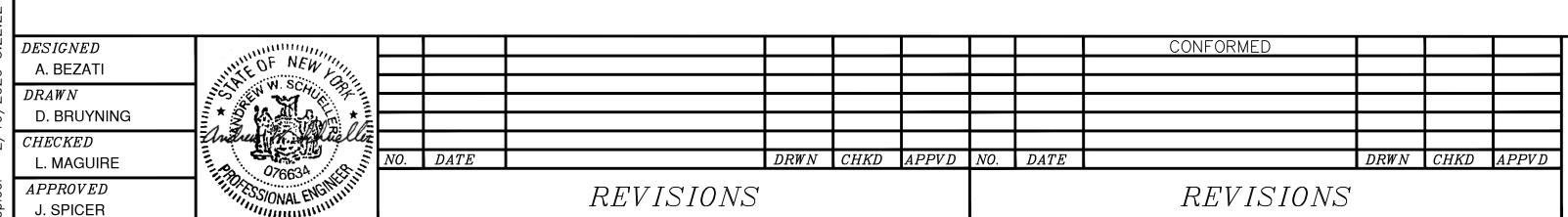
- 1.) ALL HEMS SHALL BE FOUR-PLY REINFORCED WITH HEAVY DUTY 18 OZ. VINYL COATED NYLON. ALL HEMS AND SEAMS ARE TO BE SEWN WITH #7 WEATHER AND ULTRAVIOLET LIGHT RESISTANT DACRON THREAD.
- 2.) GROMMETS SHALL BE OF BRASS SPACED AT A MAXIMUM OF 12" APART ON ALL HEMS.
- 3.) DIE CUT AIR VENTS SHALL BE PLACED 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.



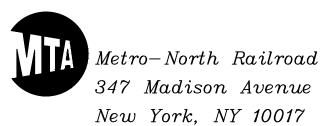
DETAIL 14: TYPICAL CATCH BASIN DETAIL N.T.S.

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



AECOM GROUP



METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION**

TYPICAL DETAILS 2

1000106733 SCALE DATEAS NOTED 11/20/2019 DRAWING NO.

C-104 SHEET 11 OF 75

ARCHITECTURAL ABBREVIATIONS

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

NOT ALL A	ABBREVIATIONS DEPICTED ON THIS LEGEND ARE U	SED IN TH	E ARCHITECTURAL DRAWINGS				
ABV	ABOVE	COMMS	COMMUNICATIONS	FP	FIREPROOF(ING)	NA	NOT AVAILABLE / APPLICABLE
ACCESS	ACCESSIBLE	CONC	CONCRETE	FRP	FIBERGLASS-REINFORCED PLASTICS	NIC	NOT IN CONTRACT
ACST	ACOUSTIC	CONSTR	CONSTRUCTION	FRT	FIRE RETARDANT TREATED	NO NOM	NUMBER NOMINAL
ACP	ACOUSTICAL CEILING PANEL	CONTR	CONTRACTOR	FT	FOOT	NTS	NOT TO SCALE
ACT	ACOUSTICAL CEILING TILE	CONT	CONTINUE	FTG	FOOTING	OA	OVERALL
AD PNL	ADVERTISEMENT PANEL	CORR	CORRIDOR CHISTOMER SERVICE INFORMATION	FURN GALV	FURNITURE GALVANIZE(D)	O.C.	ON CENTER
ADA	AMERICANS WITH DISABILITIES ACT	CSI	CUSTOMER SERVICE INFORMATION	GC	GENERAL CONTRACTOR	O.D.	OUTSIDE DIAMETER
ADB	ARRIVAL DEPARTURE BOARD	CSK	COUNTERSINK			O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
ADDL	ADDITIONAL	CT	CERAMIC TILE	GF GL	GROUND FLOOR GLASS / GLAZING	O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
ADJ	ADJACENT	CTD	COATED	GWB	GYPSUM WALL BOARD	O.H.	OVERHANG
AFF	ABOVE FINISHED FLOOR	CTR	CENTER	HD	HEAVY DUTY	OPNG	OPENING
AFG	ABOVE FINISHED GRADE	D	DEPTH	HDWD	HARDWOOD	OPP	OPPOSITE (HAND)
AFS	ABOVE FINISHED SLAB	DBL	DOUBLE	НМ	HOLLOW METAL	PART	PARTIAL
ALNMT	ALIGNMENT	DEG	DEGREE	HNDRL	HANDRAIL	PASS	PASSENGER
ALT	ALTERNATE	DEMO	DEMOLITION	HORIZ	HORIZONTAL	PAT	PATTERN
ALUM	ALUMINUM	DEPT	DEPARTMENT	HP	HIGH POINT	PCC	PRECAST CONCRETE
ANOD	ANODIZED	DTL	DETAIL	HSS	HOLLOW STRUCTURAL STEEL	PERF	PERFORATED
APPROX	APPROXIMATELY	DIA	DIAMETER	HT	HEIGHT	PERIM	PERIMETER
ARCH	ARCHITECTURAL	DIAG	DIAGONAL	HVAC	HEATING / VENTILATION / AIR CONDITIONING	PL	PLATE
ASB	ASBESTOS	DIM	DIMENSION	IDE	INDUSTRIAL DESIGN ELEMENT	P/L	PROPERTY LINE
ASPH	ASPHALT	DIV	DIVISION	IN	INCH / INCHES	PLAS	PLASTER
ASSY	ASSEMBLY	DN	DOWN	INCL	INCLUDE(D) / INCLUDING	PLUMB	PLUMBING
AUTO	AUTOMATIC	DMPF	DAMPPROOFING	INSUL	INSULATE / INSULATION	PLYWD	PLYWOOD
AVE	AVENUE	DOT	DEPARTMENT OF TRANSPORTATION	INT	INTERIOR	PNL	PANEL
AVG	AVERAGE	DP	DOWNPIPE	INV	INVERT	PORC	PORCELAIN
BD	BOARD	DR	DOOR	JST	JOIST	PPD	PERPENDICULAR PLATFORM DISPLAY
BETW	BETWEEN	DS	DOWNSPOUT	JT	JOINT	PR	PAIR
BL	BASELINE, BUILDING LINE	DWG	DRAWING	ı	LENGTH	PREFAB	PREFABRICATED
BLDG	BUILDING	E	EAST	LAM	LAMINATE	PSF	POUNDS PER SQUARE FOOT
BLKG	BLOCKING	EA	EACH	LAV	LAVATORY	PSI	POUNDS PER SQUARE INCH
BM	BENCHMARK	E.F.	EXHAUST FAN	LG	LENGTH	PT	PRESSURE TREATED
BN	BENCH	EJ	EXPANSION JOINT	LIB	LIBRARY	PTD	PAINT(ED)
B.O.	BOTTOM OF	EL	ELEVATION	LIN	LINEAR	PVC	POLYVINYL CHLORIDE
ВОН	BACK OF HOUSE	ELEC	ELECTRICAL	LL	LIVE LOAD	PVG	PAVING
B.P.	BASE PLATE	ELEV	ELEVATOR	LLH	LONG LEG HORIZONTAL	QTY	QUANTITY
BRDG	BRIDGE	EMR	ELEVATOR MACHINE ROOM	LLV	LONG LEG VERTICAL	R	RADIUS
BRG	BEARING	ENCL	ENCLOSED / ENCLOSURE	LT	LIGHT	RCP	REFLECTED CEILING PLAN
B.S.	BOTH SIDES	ENG	ENGINEER	LTG	LIGHTING	RD	ROOF DRAIN
BSMT	BASEMENT	ENTR	ENTRANCE			REC	RECESSED
CAB	CABINET	EQ	EQUAL(LY)	LWC MACH	LIGHTWEIGHT CONCRETE MACHINE	RECPT	RECEPTACLE
CAP	CAPACITY	EQUIP	EQUIPMENT	MATL	MATERIAL	REF	REFERENCE
CCA	CHROMATED COPPER ARSENATE	ESCAL	ESCALATOR	MAX	MAXIMUM	REQ	REQUIRED
CER	CERAMIC	EST	ESTIMATE	MECH	MECHANICAL	REV	REVISION
CFS	COLD-FORMED STEEL	EXIST	EXISTING	MED	MEDIUM	REVOL	REVOLVING
CIC	CUSTOMER INFORMATION CABINET	EXH	EXHAUST	MEMB	MEMBRANE	RH	RIGHT HAND
CIP	CAST IN PLACE	EXT	EXTERIOR	MEP	MECHANICAL ELECTRICAL AND PLUMBING	RM	ROOM
CIS	CUSTOMER INFORMATION SCREEN	FD	FLOOR DRAIN	MEZZ	MEZZANINE	RR	RAILROAD
CJ	CONTROL JOINT	FDC	FIRE DEPARTMENT CONNECTION	MFR		S	SOUTH
CL	CENTERLINE	FDN	FOUNDATION	M.H.	MANHOLE	SCHED	SCHEDULE
CLO	CLOSET	FE	FIRE EXTINGUISHER	MIN	MINIMUM	SCRN	SCREEN
CLG	CEILING	FEC	FIRE EXTINGUISHER & CABINET	MISC	MISCELLANEOUS	SECT	SECTION
CLR	CLEAR	FF	FINISHED FLOOR			SF	SQUARE FEET
CM	CONSTRUCTION MANAGER	FF EL	FINISH FLOOR ELEVATION	MLDG	MOLDING METRO NORTH PAIL POAD	SGL	SINGLE
CMU	CONCRETE MASONRY UNIT	FHY	FIRE HYDRANT	MNR	METRO NORTH RAILROAD MASONDY OPENING	SHT	SHEET
CNCL	CONCEALED	FIN	FINISH(ED)	M.O.	MASONRY OPENING	SIM	SIMILAR
CNTR	COUNTER	FIXT	FIXTURE	MTD MTL	MOUNTED METAL	SOG	SLAB ON GRADE
CO	CLEANOUT	FLR	FLOOR	IVII L	IVIE IALE	SPEC	SPECIFY / SPECIFICATION

ARCHITECTURAL SYMBOLS LEGEND

- EXISTING DOOR TO REMAIN - COLUMN REFERENCE - NEW DOOR NUMBER REFERENCE € - CENTER LINE - ROOM NUMBER REFERENCE X/A-XXX - MATCH LINE - WINDOW NUMBER REFERENCE X/A-XXX - REVISION REFERENCE - REVISION CLOUD - WALL TYPE REFERENCE - ELEVATION REFERENCE - NORTH ARROW - DETAIL NUMBER - DWG ON WHICH DETAIL APPEARS - SPOT ELEVATION REFERENCE - MULTIPLE ELEVATIONS REFERENCE - DETAIL NUMBER - DWG ON WHICH DETAIL APPEARS EL. 000.00' - NEW DOOR - SECTION REFERENCE - DETAIL NUMBER - DWG ON WHICH DETAIL APPEARS - EXISTING DOOR - LARGE SCALE REFERENCE - DETAIL NUMBER - DWG ON WHICH DETAIL APPEARS 1/A100 - DETAIL REFERENCE - DWG ON WHICH DETAIL **APPEARS** - DETAIL REFERENCE - DWG ON WHICH DETAIL APPEARS X-XX.XXX - SIGNAGE TAG - EXISTING WALLS TO REMAIN - SECTION/DETAIL DRAWING TITLE REFERENCE - FIRST DWG ON WHICH IT APPEARS - WALLS TO BE DEMOLISHED - NEW WALLS - INDUSTRIAL DESIGN ELEMENT TAG - AREA OUTSIDE SCOPE OF WORK - FINISH TAG ─XXX-XX - EXISTING GOOSENECK LIGHT FIXTURE - EXISTING DOUBLE GOOSENECK LIGHT FIXTURE

100% DESIGN SUBMISSION

DESIGNED DRAWNΥM CHECKEDAPPROVED

DRWN CHKD APPVD NO. DATE NO. DATE REVISIONS

DRWN CHKD APPVD

CONFORMED

REVISIONS



SPKLR

SPKR

SQ

SSTL

ST

STL

SYS

THRES

THRU

TOS

UNFIN

VOL

SPRINKLER

SPEAKER

SQUARE

STREET

STANDARD

STORAGE

STRUCT STRUCTURE / STRUCTURAL

SUPERVISOR

SUSPENDED

TEMPORARY

THICKNESS

THRESHOLD

THROUGH

TOP OF

TOP AND BOTTOM

TOP OF CONCRETE

TRASH RECEPTACLE

TICKET VENDING MACHINE

UHPFRC ULTRA HIGH PERFORMANCE FIBER REINFORCED CONCRETE

ULTRA HIGH PERFORMANCE CONCRETE

TOP OF SLAB

TOP OF WALL

TYPICAL

UNFINISHED

VERY HIGH BOND

VERIFY IN FIELD

VENT TO ROOF

VERTICAL

VOLUME

WITHOUT

WOOD

WATER CLOSET

WOOD DOOR

WIDE FLANGE

WATERPROOF

WATERPROOF MEMBRANE

WELDED WIRE FABRIC

WINDOW

TICKET OFFICE MACHINE

SYSTEM

SUPERINTENDENT

TECHNICAL ADVISORY

STAINLESS STEEL



METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION ABBREVIATIONS & SYMBOLS

CONTRACT NO. 1000106733 SCALE

AS NOTED

DRAWING NO. A-001 SHEET 13 OF 76

11-20-2019

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
- 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

CHECKED

APPROVED

DRAWNΥM

CONFORMED DRWN CHKD APPVD NO. DATE $NO. \qquad DATE$ DRWN CHKD APPVD REVISIONS REVISIONS

AECOM



METRO-NORTH STATION IMPROVEMENTS

PURDY'S STATION

CONTRACT NO. 1000106733 SCALEDATEAS NOTED 11-20-2019

DRAWING NO. GENERAL NOTES & CODE ANALYSIS A-002

SHEET 14 OF 76

			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 DRAWNCHECKED NM APPROVED NM

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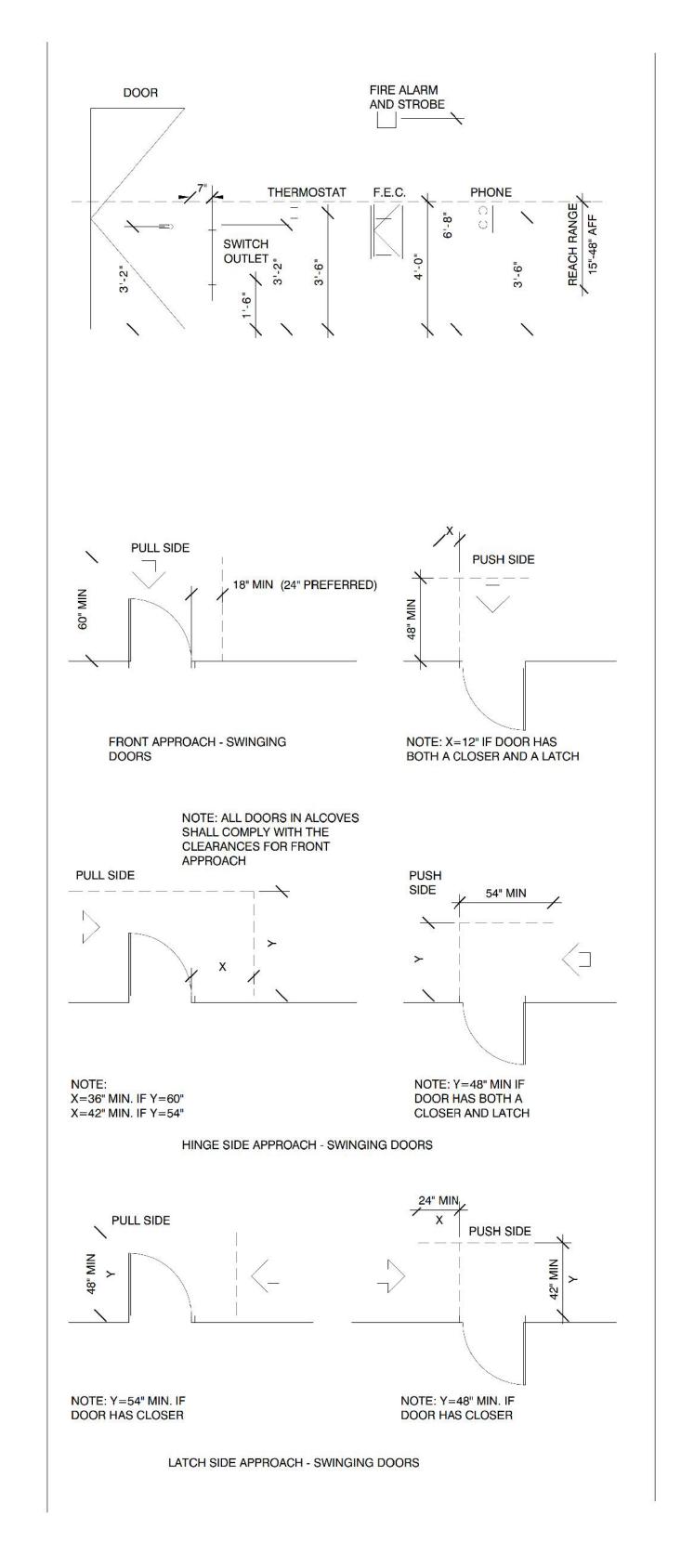
METRO-NORTH STATION IMPROVEMENTS

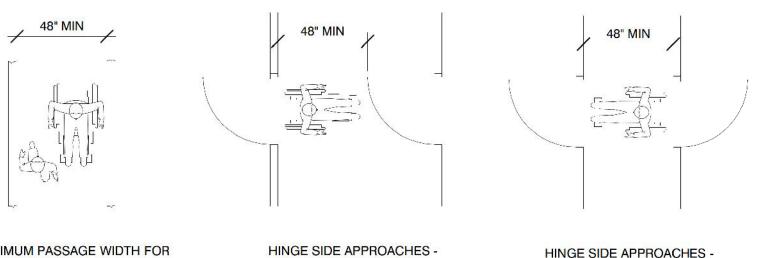
PURDYS STATION SYSTEM & FINISH SCHEDULE

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

DRAWING NO.

A-003 SHEET 15 OF 76

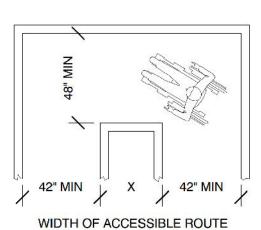




SWINGING DOORS (A)

MINIMUM PASSAGE WIDTH FOR ONE WHEELCHAIR AND ONE AMBULATORY PERSON

HINGE SIDE APPROACHES -SWINGING DOORS (B)



FOR TURNS AROUND AN

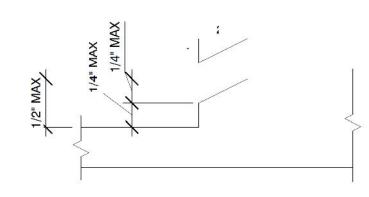
OBSTRUCTION

WALL (TYP.)

MIN. CLEAR WIDTH FOR TWO WHEELCHAIRS

MIN. CLEAR WIDTH FOR SINGLE WHEELCHAIR

TYPICAL THRESHOLD



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

DESIGNEDDRAWNΥM CHECKEDNM APPROVED



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METRO-NORTH STATION IMPROVEMENTS PURDY'S STATION

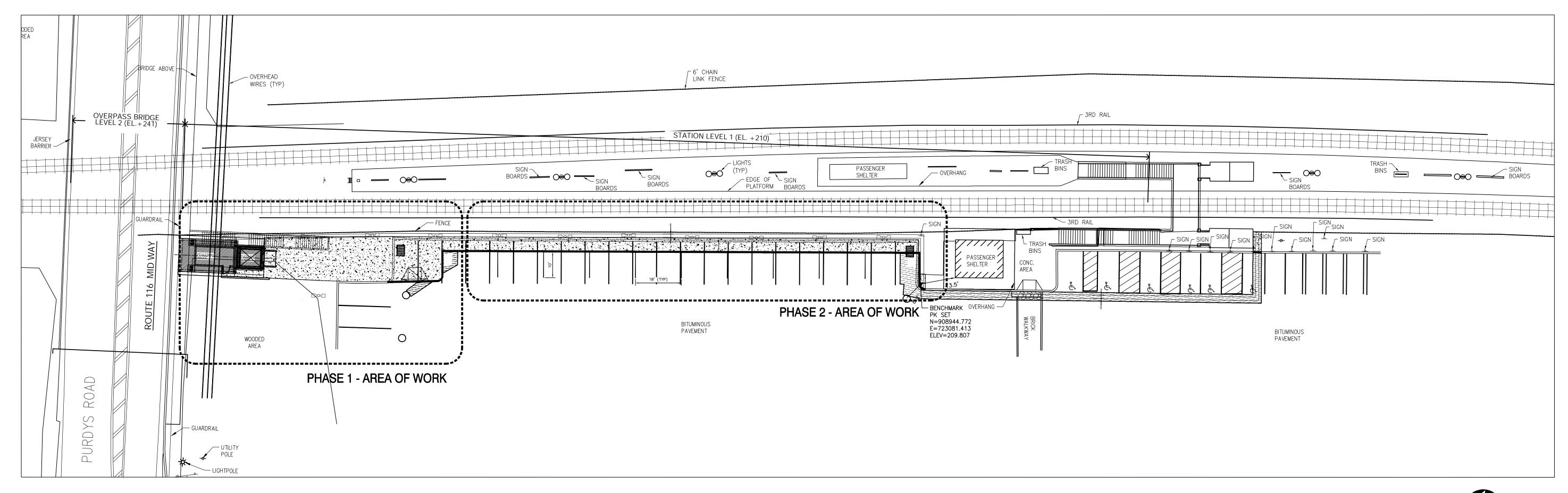
TYPICAL ACCESSIBILITY DETAILS

DRAWING NO.

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AS NOTED 11-20-2019

> A-004 SHEET 16 OF 76



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



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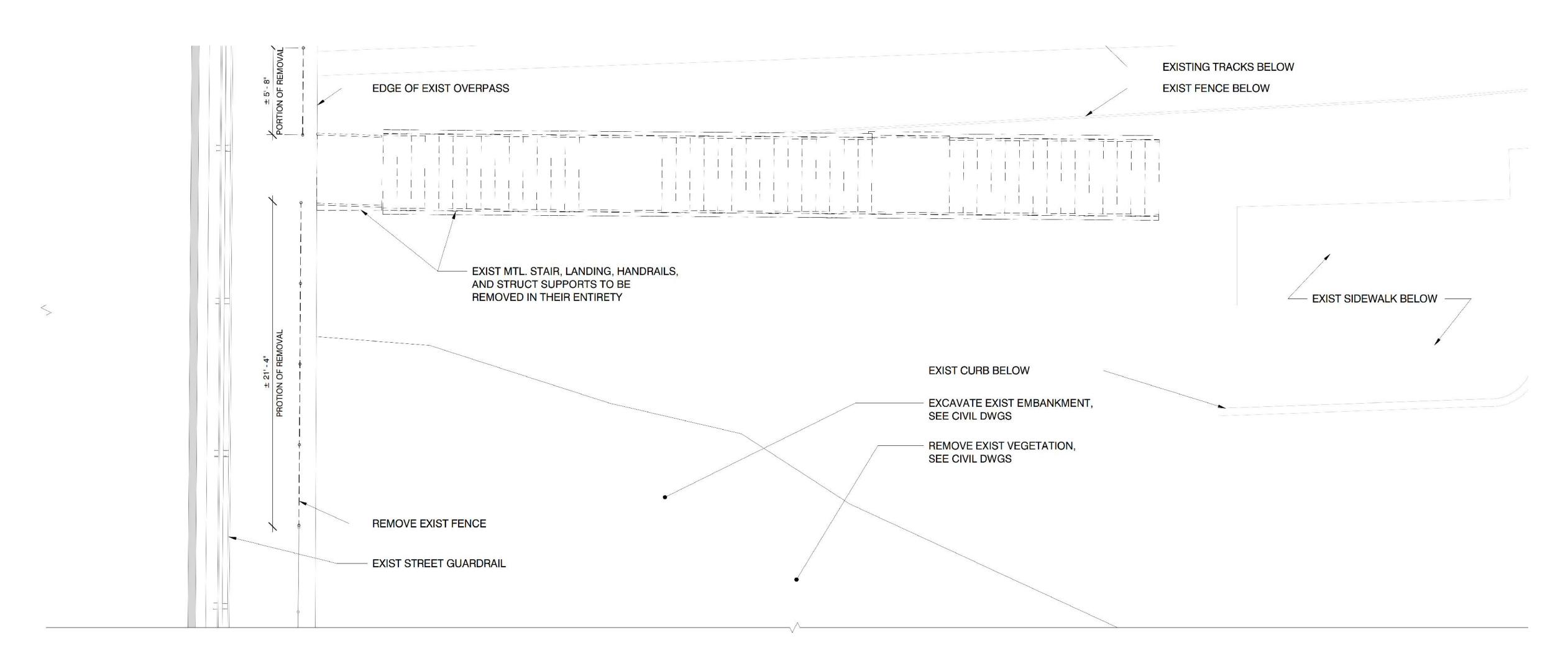


100% DESIGN SUBMISSION METRO-NORTH STATION IMPROVEMENTS SCALE AS NOTED

PURDY'S STATION OVERALL ARCH'L SITE PLAN CONTRACT NO. 1000106733 11-20-2019

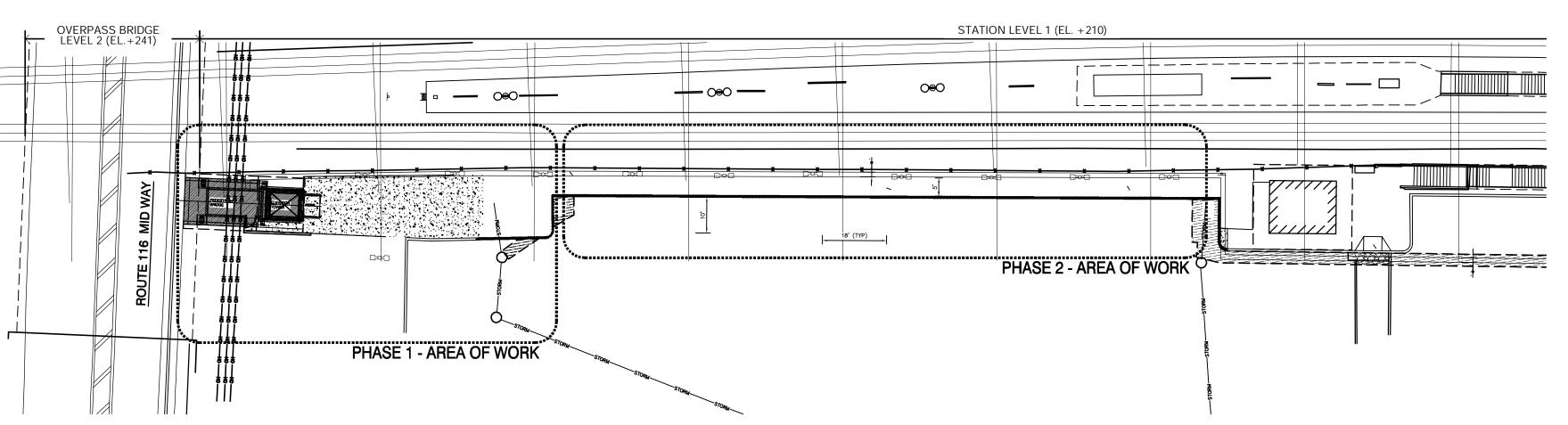
DRAWING NO. A-011 SHEET 17 OF 76

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PEDESTRIAN BRIDGE LEVEL DEMOLITION PLAN

SEE CIVIL DRAWINGS FOR COMPLETE SITE DEMOLITION SCOPE.



100% DESIGN SUBMISSION

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

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

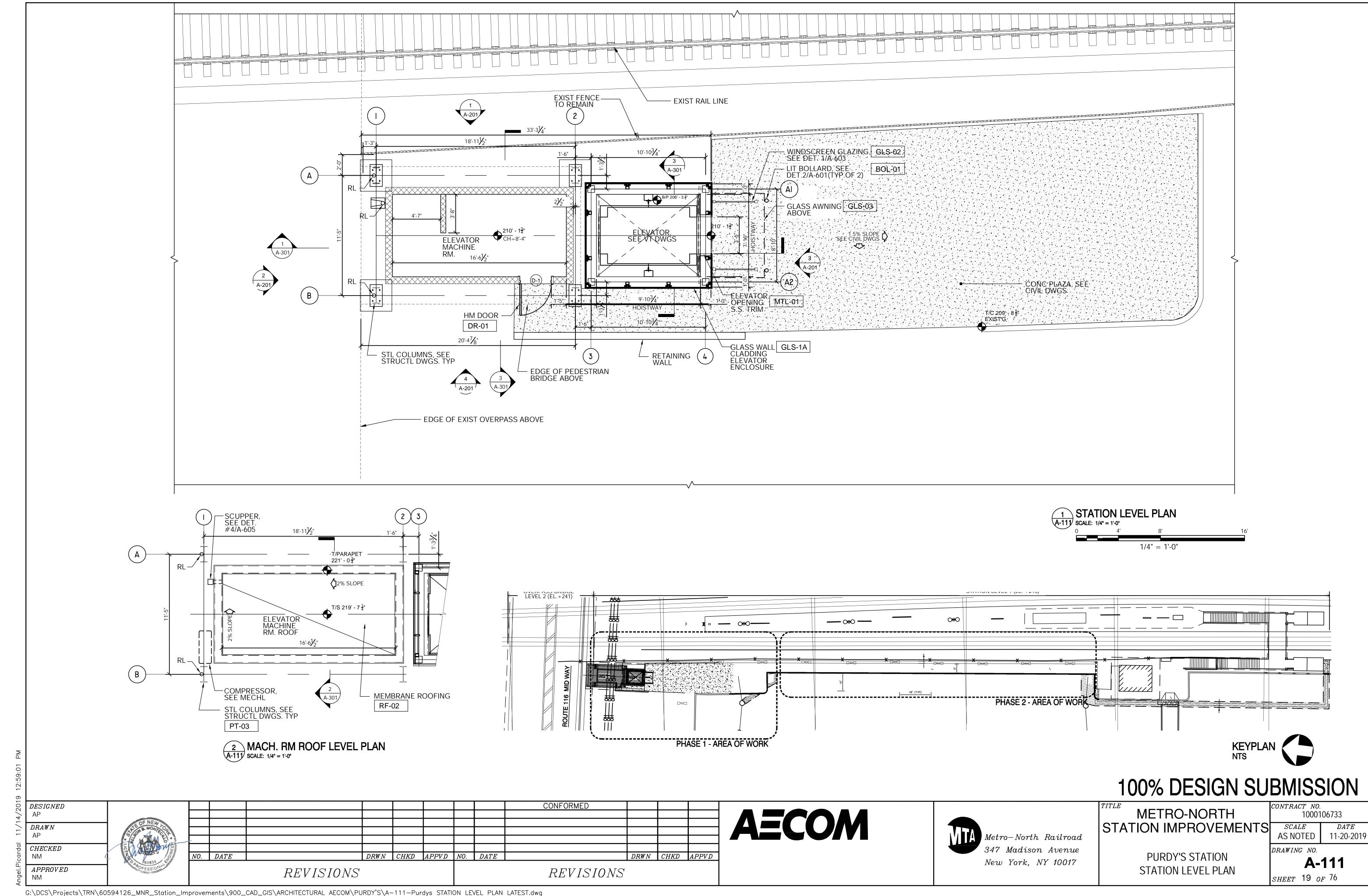
METRO-NORTH STATION IMPROVEMENTS

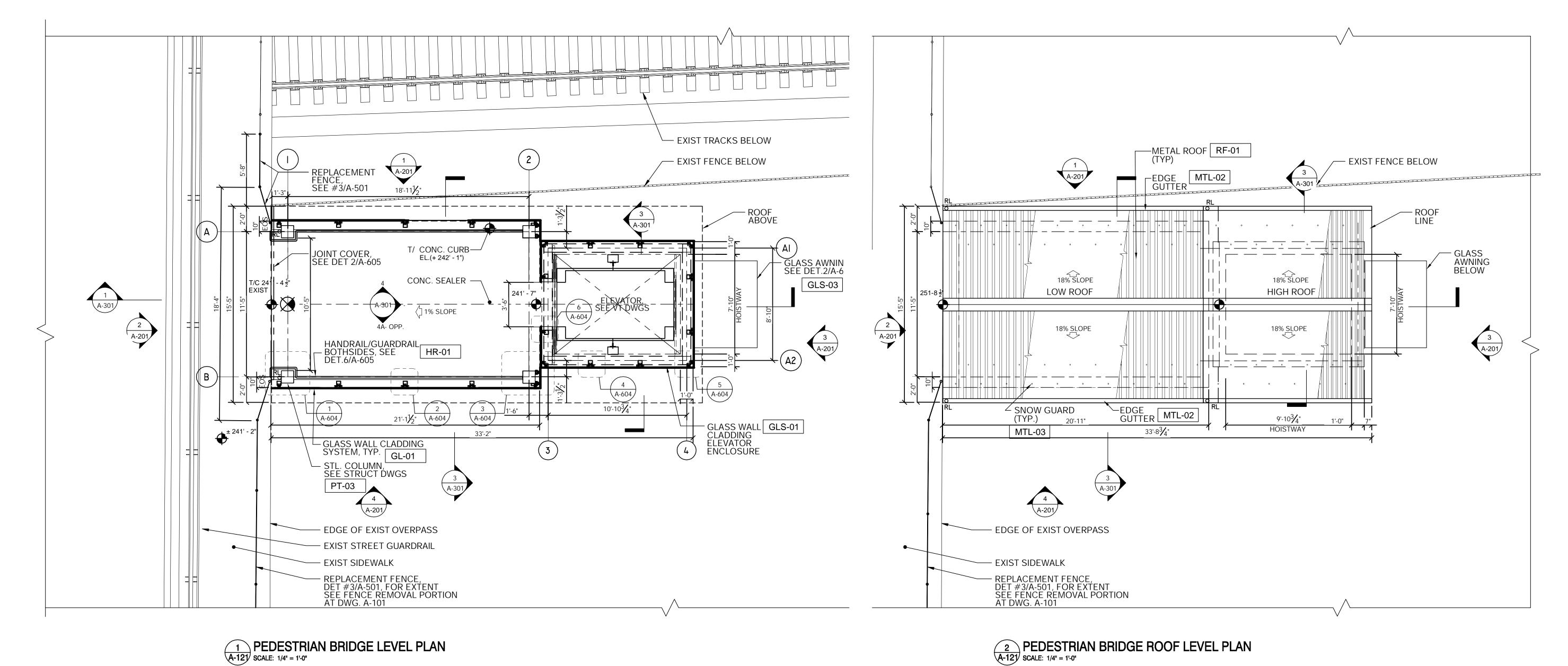
PURDY'S STATION

DEMOLITION PLAN

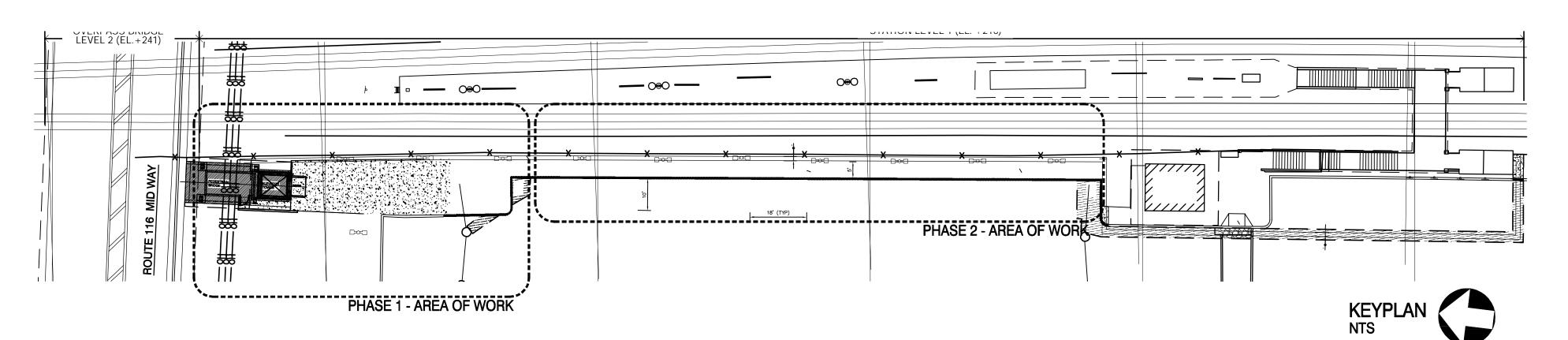
contract no. 1000106733 SCALEAS NOTED 11-20-2019 DRAWING NO.

A-101 SHEET 18 OF 76





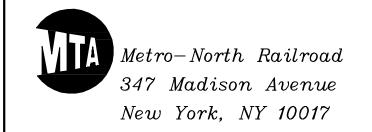
PEDESTRIAN BRIDGE LEVEL PLAN
SCALE: 1/4" = 1'-0"



100% DESIGN SUBMISSION

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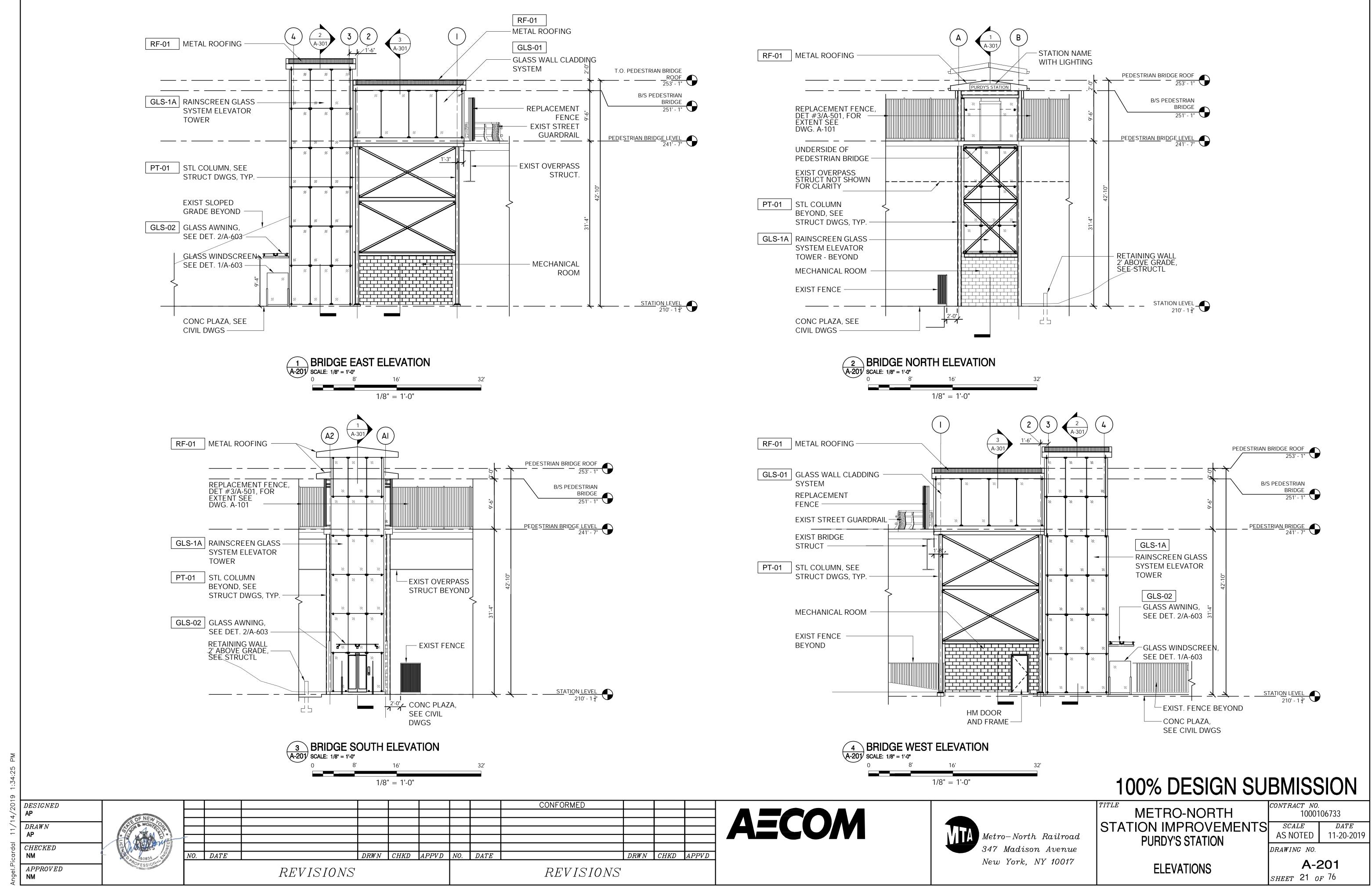


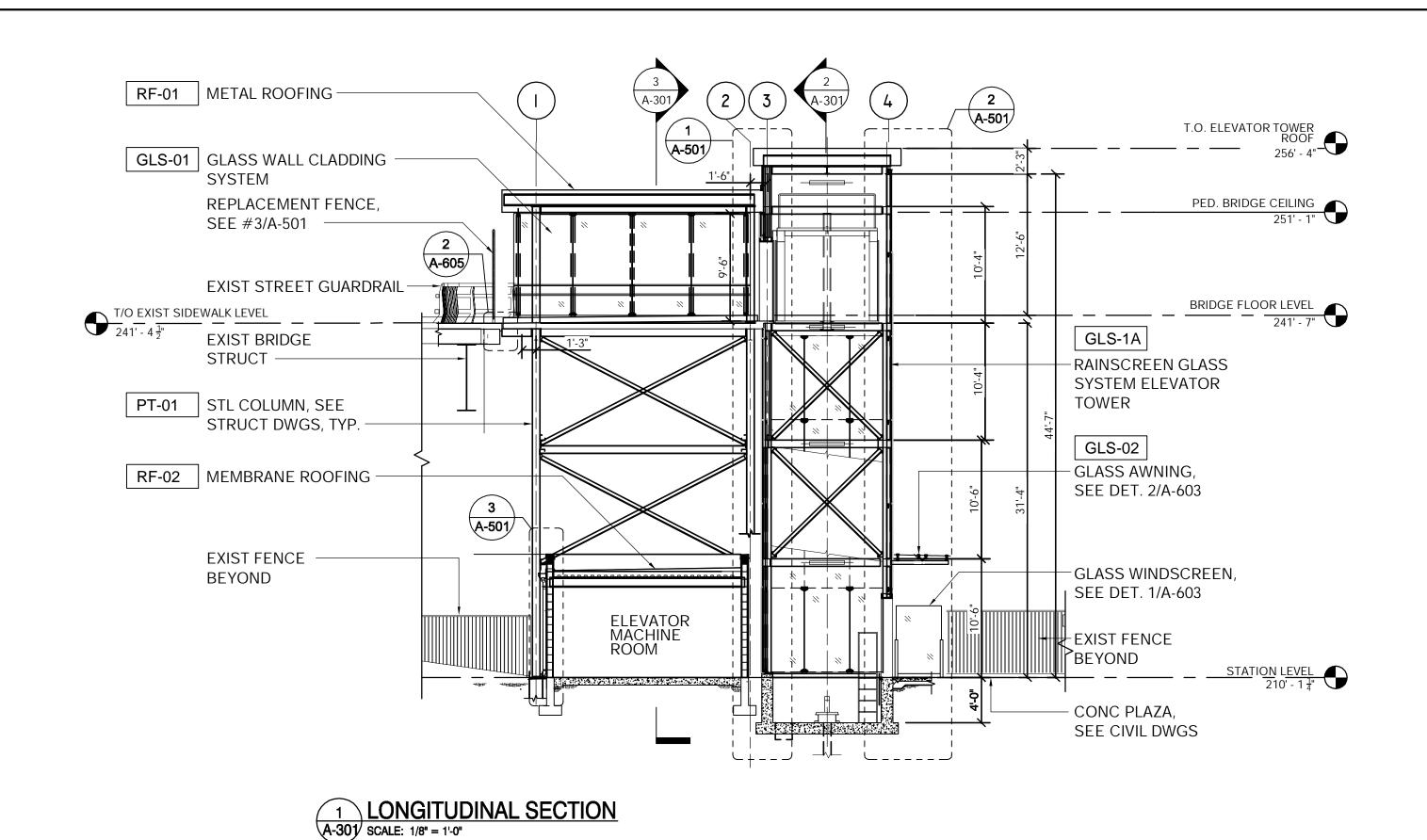
METRO-NORTH STATION IMPROVEMENTS

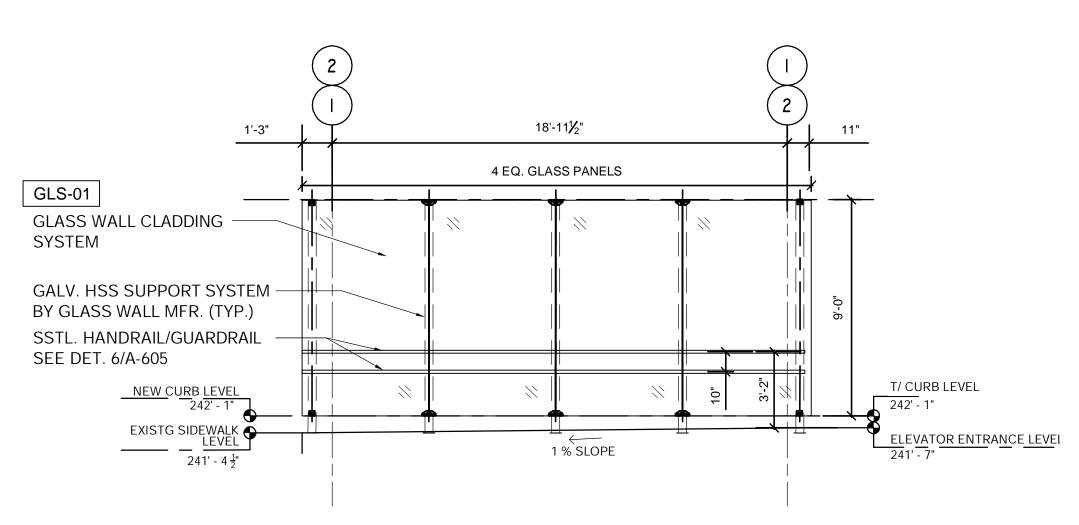
PURDY'S STATION PEDESTRIAN BRIDGE LEVEL PLAN ROOF LEVEL PLAN

CONTRACT NO. 1000106733 SCALEAS NOTED 11-20-2019 DRAWING NO. A-121

SHEET 20 OF 76

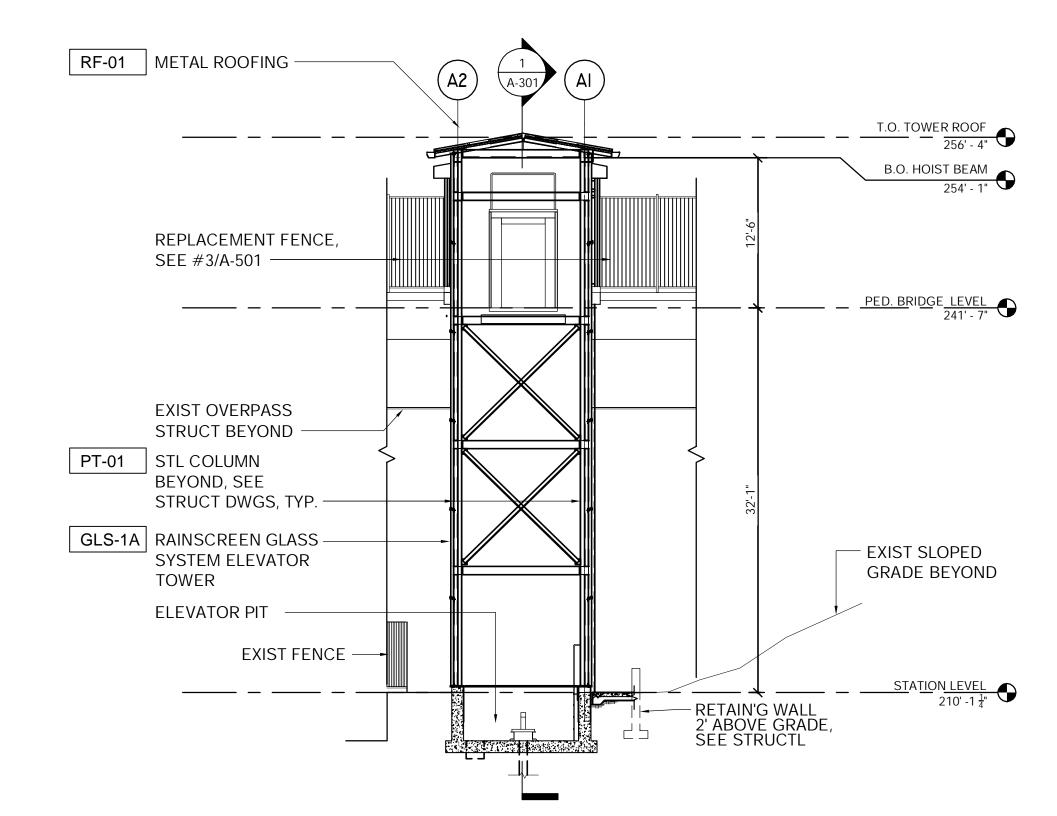


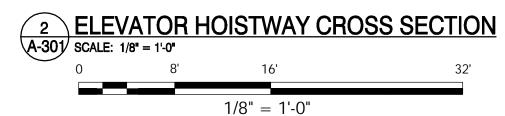


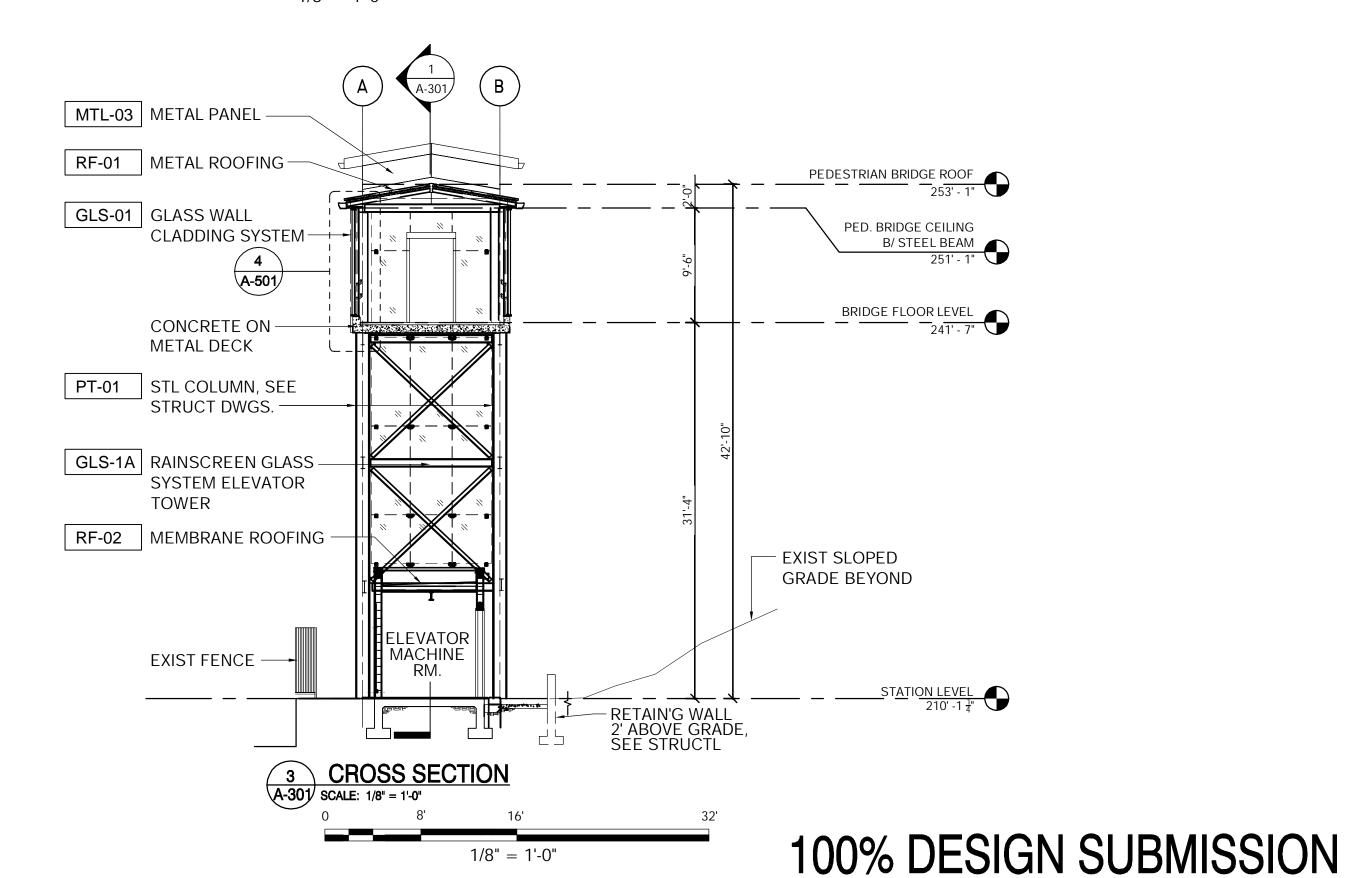


4 PEDESTRIAN BRIDGE SECTION
A-301 SCALE: 1/4" = 1'-0"

1/8" = 1'-0"







CONFORMED DESIGNED DRAWNCHECKED NM DRWN CHKD APPVD NO. DATE DRWN CHKD APPVD NO. DATE APPROVEDREVISIONS REVISIONS

AECOM

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

METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION**

AS NOTED DRAWING NO.

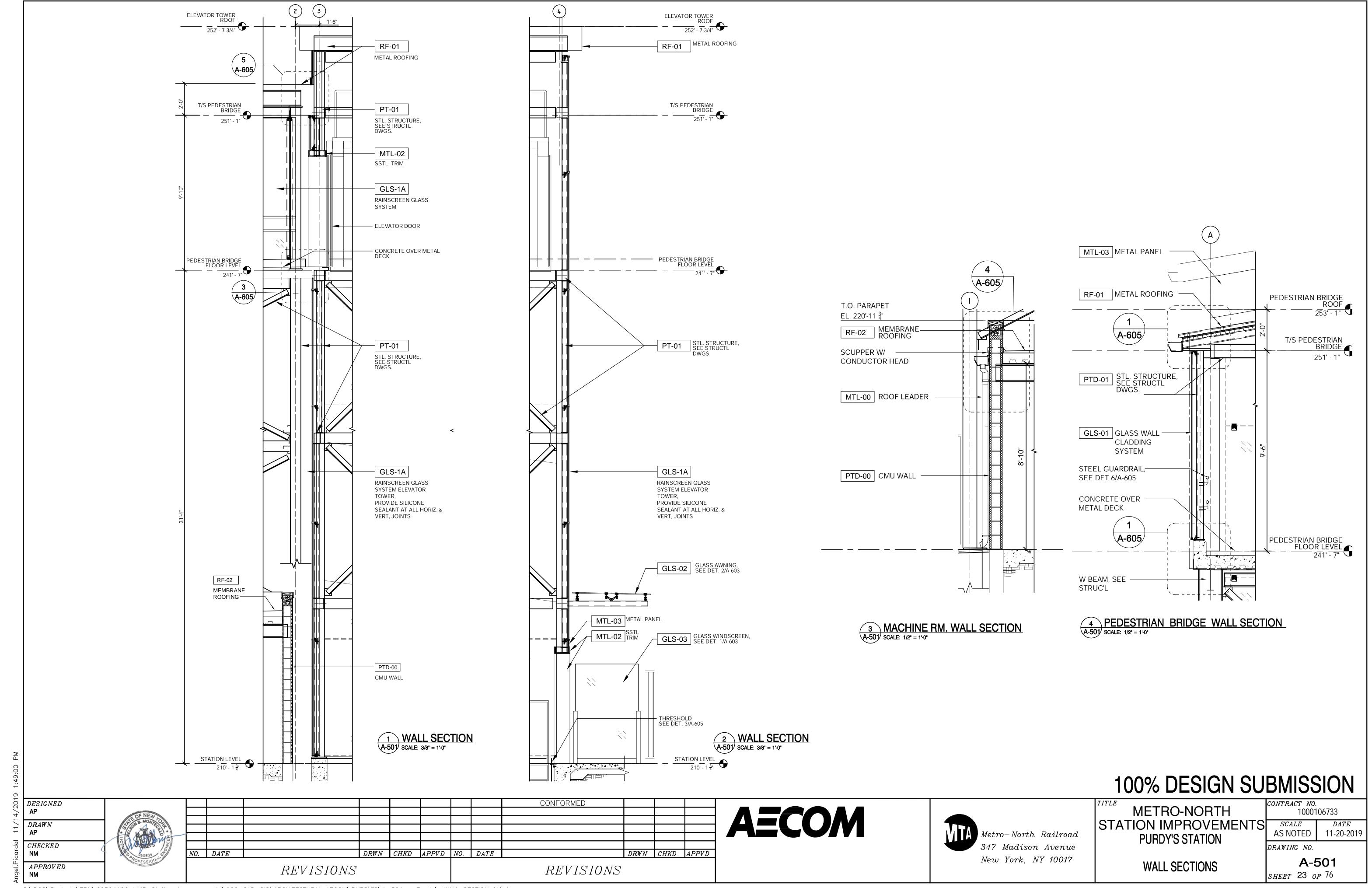
SCALE

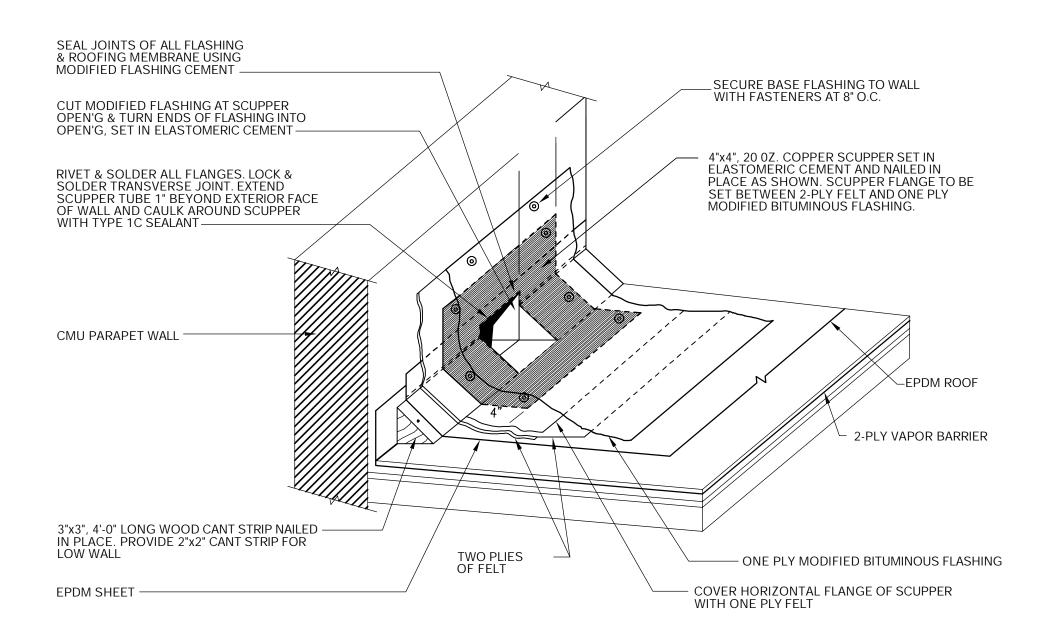
SECTIONS

11-20-2019 A-301 SHEET 22 OF 76

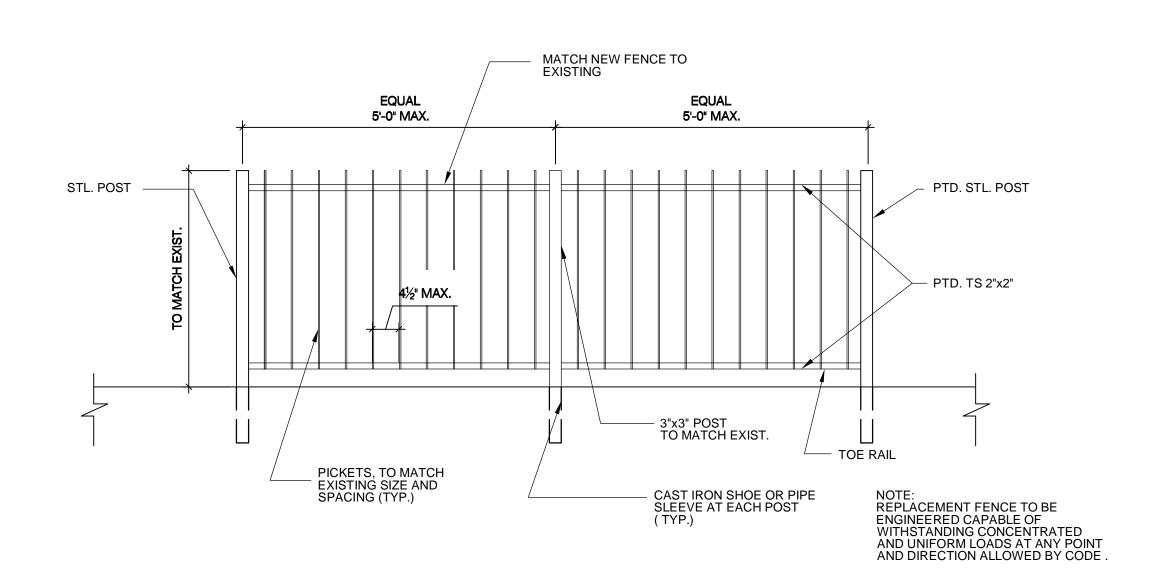
DATE

contract no. 1000106733

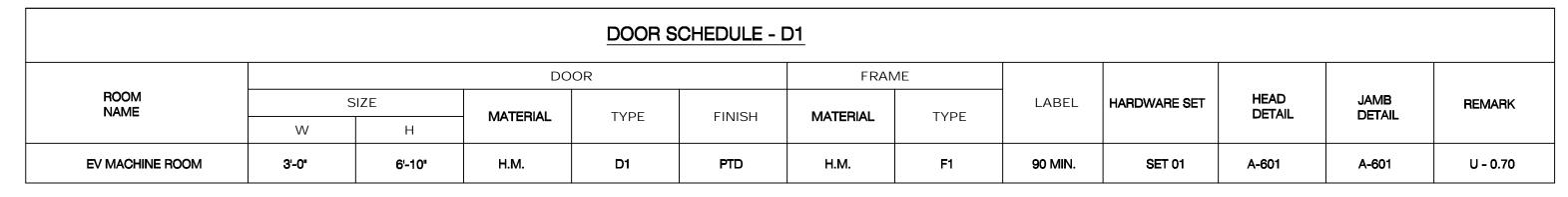


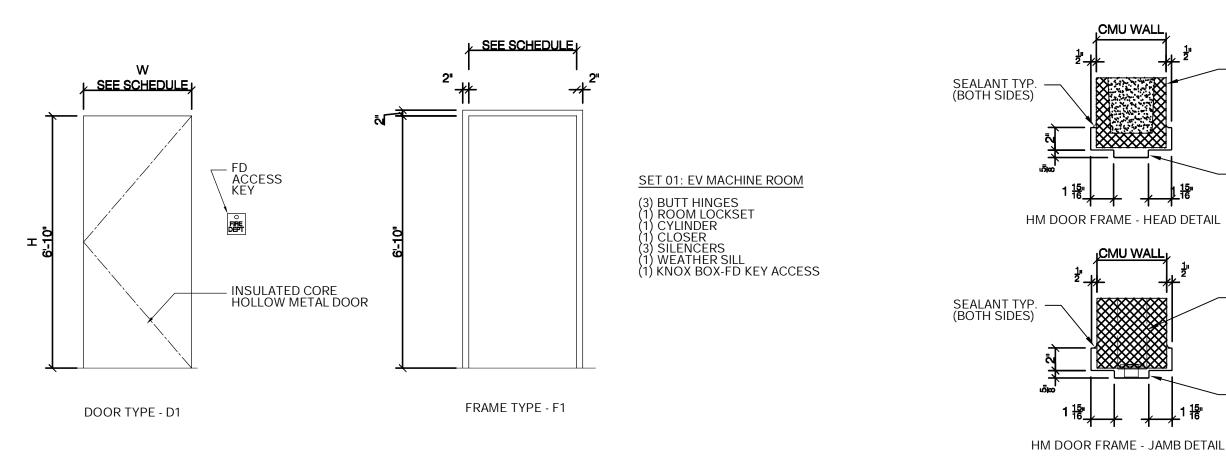


A-601 SCALE: $\frac{1}{2}$ " = 1'-0"



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





JAMB & HEAD DETAIL A-601 SCALE: $1\frac{1}{2}$ = 1'-0"

__MOUNTING CIRCLE

___SSTL. COVER

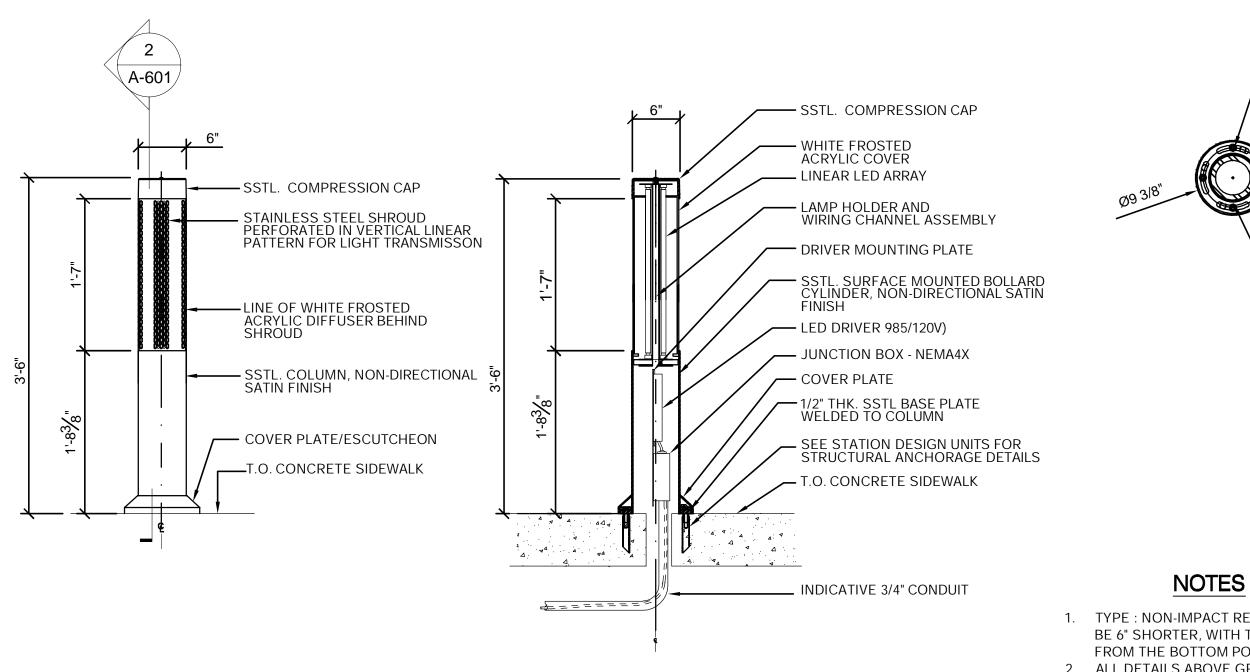
BOND BEAM (SEE LINTEL BLOCK DETAILS FOR ACTUAL BLOCK SIZE AND LOCATION OF REBARS)

- 14 GA. STEEL FRAME

ADJUSTABLE MASONRY

14 GA. STEEL FRAME

ANCHOR 3 PER JAMB (TYP.)



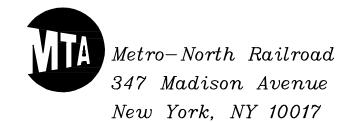
- 1. TYPE: NON-IMPACT RESISTANT BOLLARD SHALL BE 6" SHORTER, WITH THE REDUCTION COMING FROM THE BOTTOM PORTION.
- 2. ALL DETAILS ABOVE GRADE, EXCEPT THE OVERALL HEIGHT



100% DESIGN SUBMISSION

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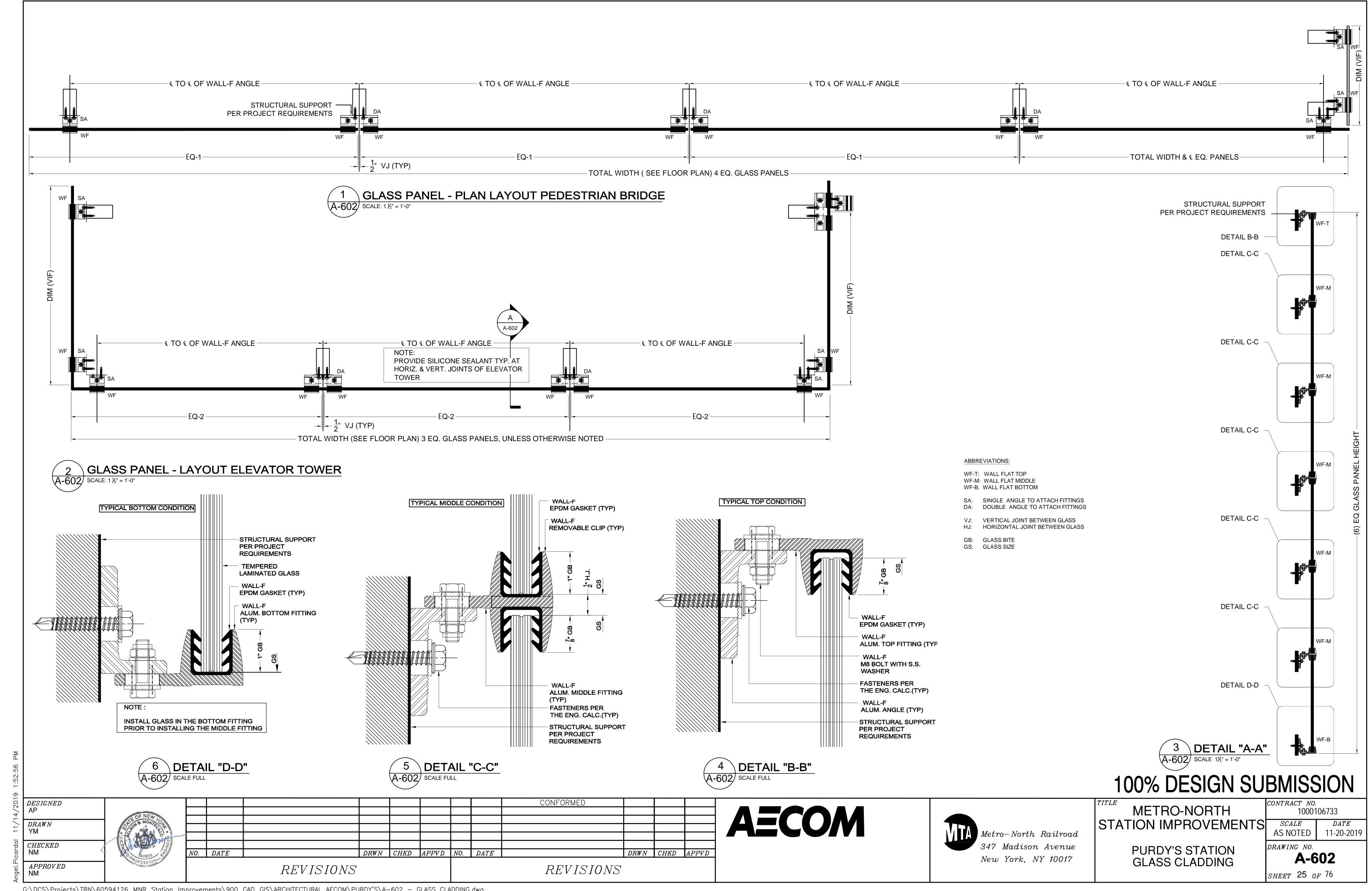


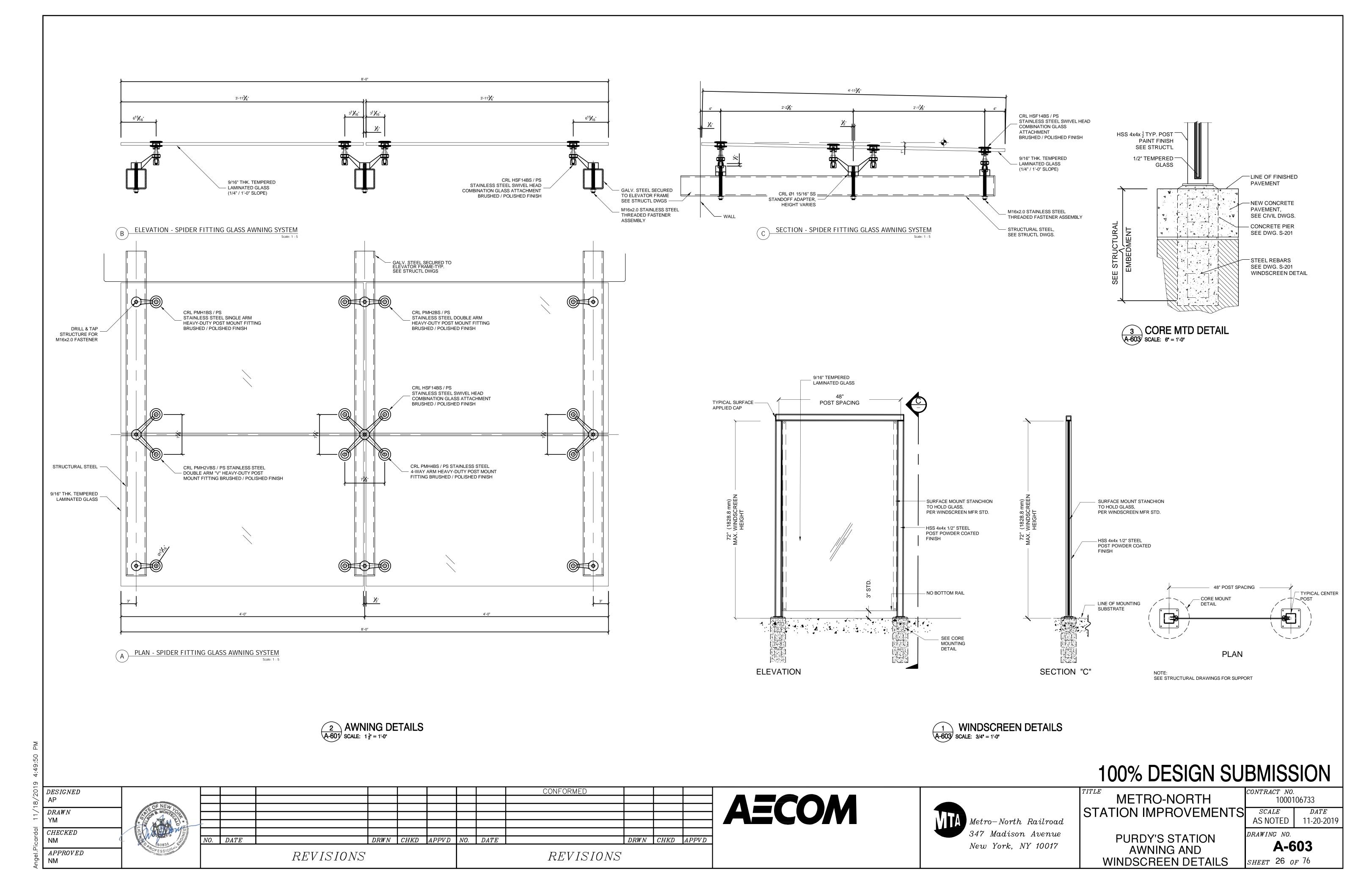
METRO-NORTH STATION IMPROVEMENTS

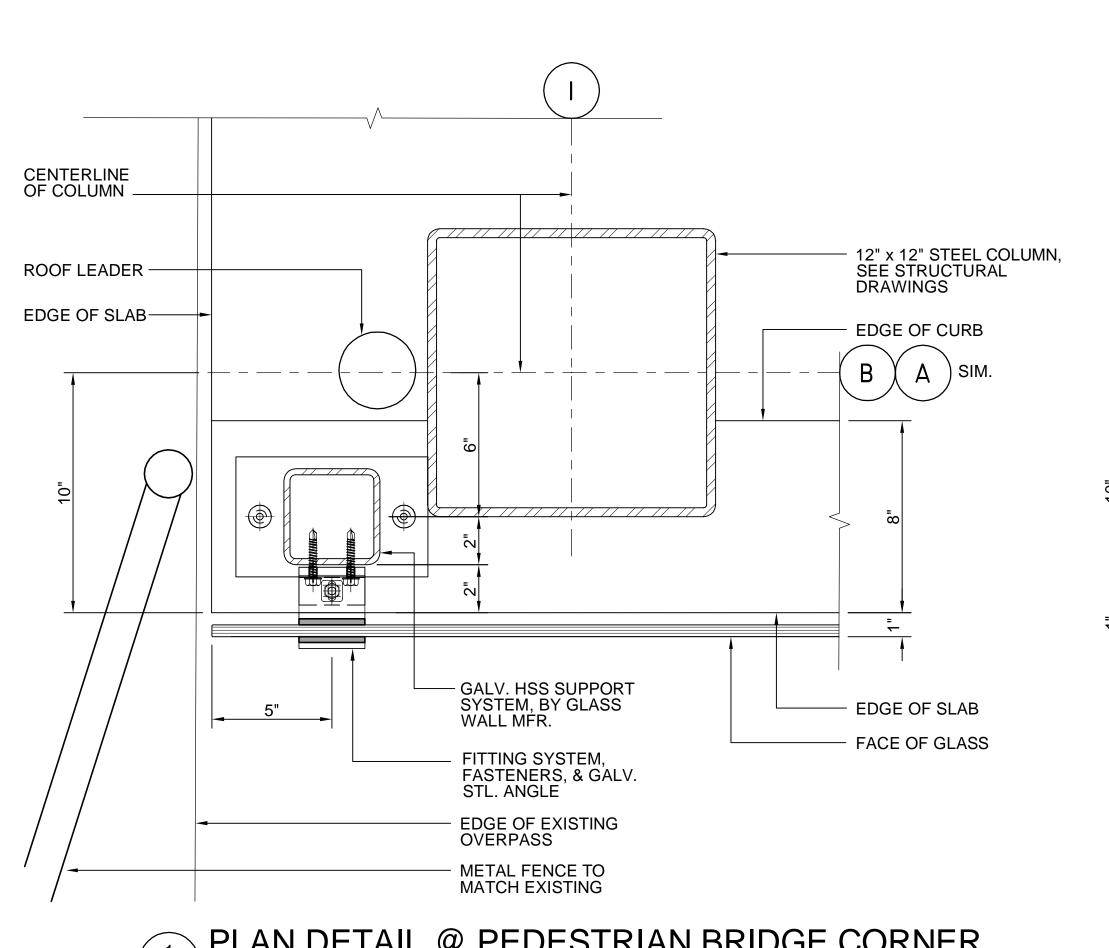
PURDY'S STATION MISCELLANEOUS DETAILS

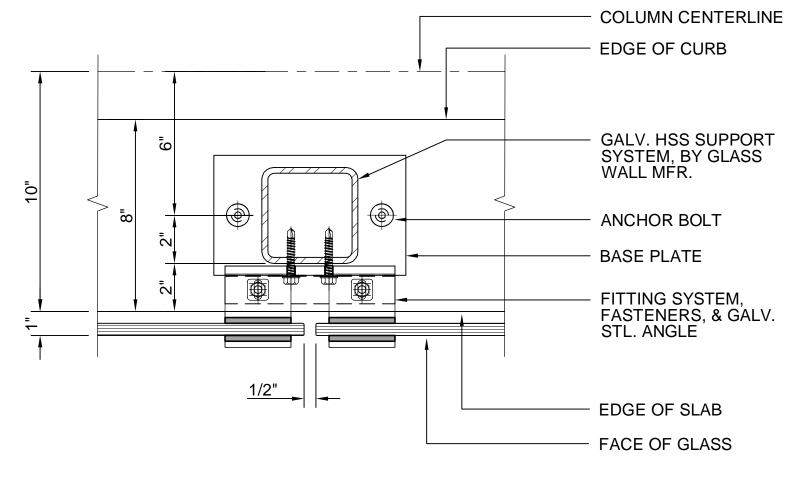
1000106733 AS NOTED 11-20-2019 DRAWING NO. A-601

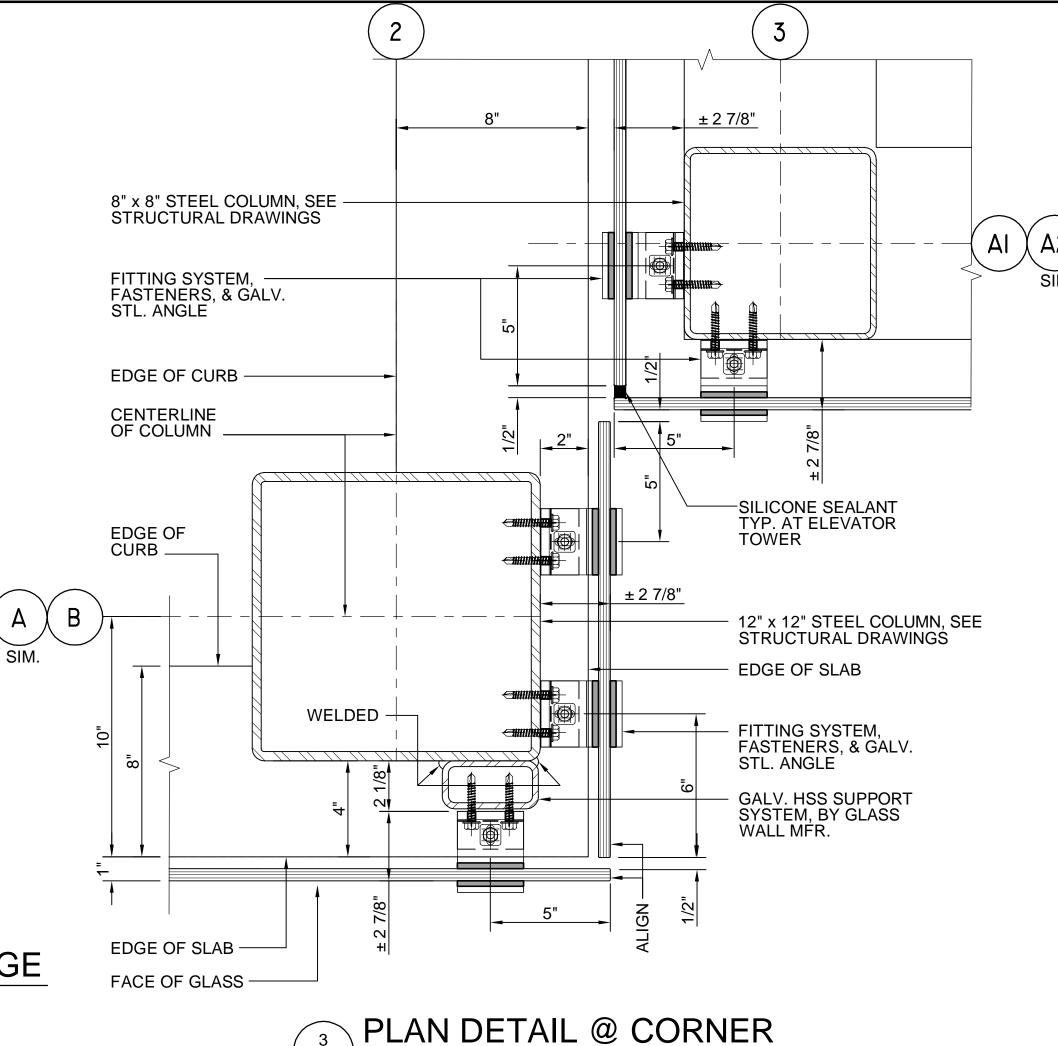
SHEET 24 OF 76









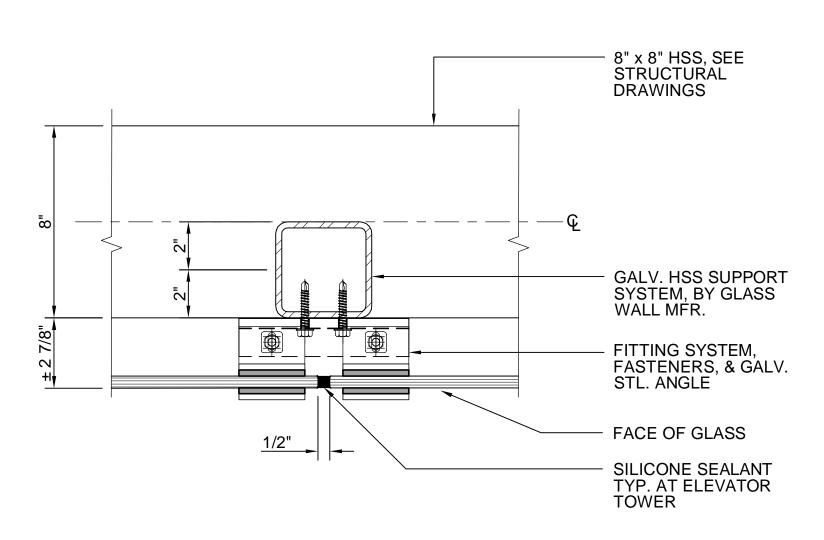


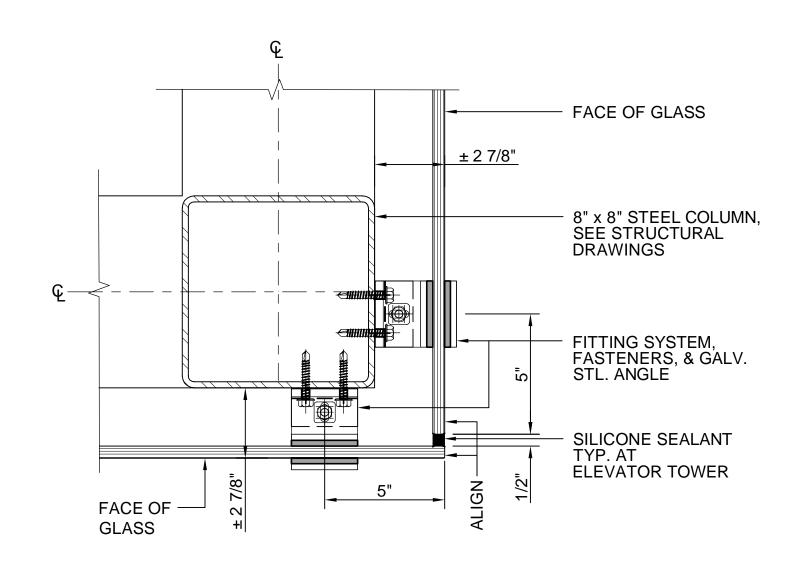
PLAN DETAIL @ PEDESTRIAN BRIDGE CORNER

SCALE: 3" = 1'-0"

TYP. GLASS SUPPORT @ PEDESTRIAN BRIDGE

SCALE: 3" = 1'-0"





STAINLESS STEEL CLOSURE TRIM ALL AROUND ELEVATO OPENING

ELEVATOR DOOR

METAL STUD FRAMING

GALV. HSS SUPPORT SYSTEM, BY GLASS WALL MFR.

8" x 8" HSS, SEE STRUCTURAL DRAWINGS

CONCRETE CURB

FITTING SYSTEM
AND FASTENERS

ELEVATOR JAMB DETAIL

A-604 SCALE: 3" = 1'-0"

TYPICAL GLASS SUPPORT @ HOISTWAY

SCALE: 3" = 1'-0"

PLAN DETAIL @ ELEVATOR CORNER

SCALE: 3" = 1'-0"

100% DESIGN SUBMISSION

DESIGNED A CONFORMED CONFORMED DRAWN
YM

CHECKED NM

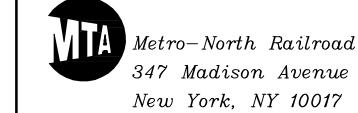
NO. DATE

REVISIONS

REVISIONS

REVISIONS

AECOM



SILICONE SEALANT

ELEVATOR TOWER

METRO-NORTH
STATION IMPROVEMENTS

PURDY'S STATION ENLARGED PLAN DETAILS

1000106733

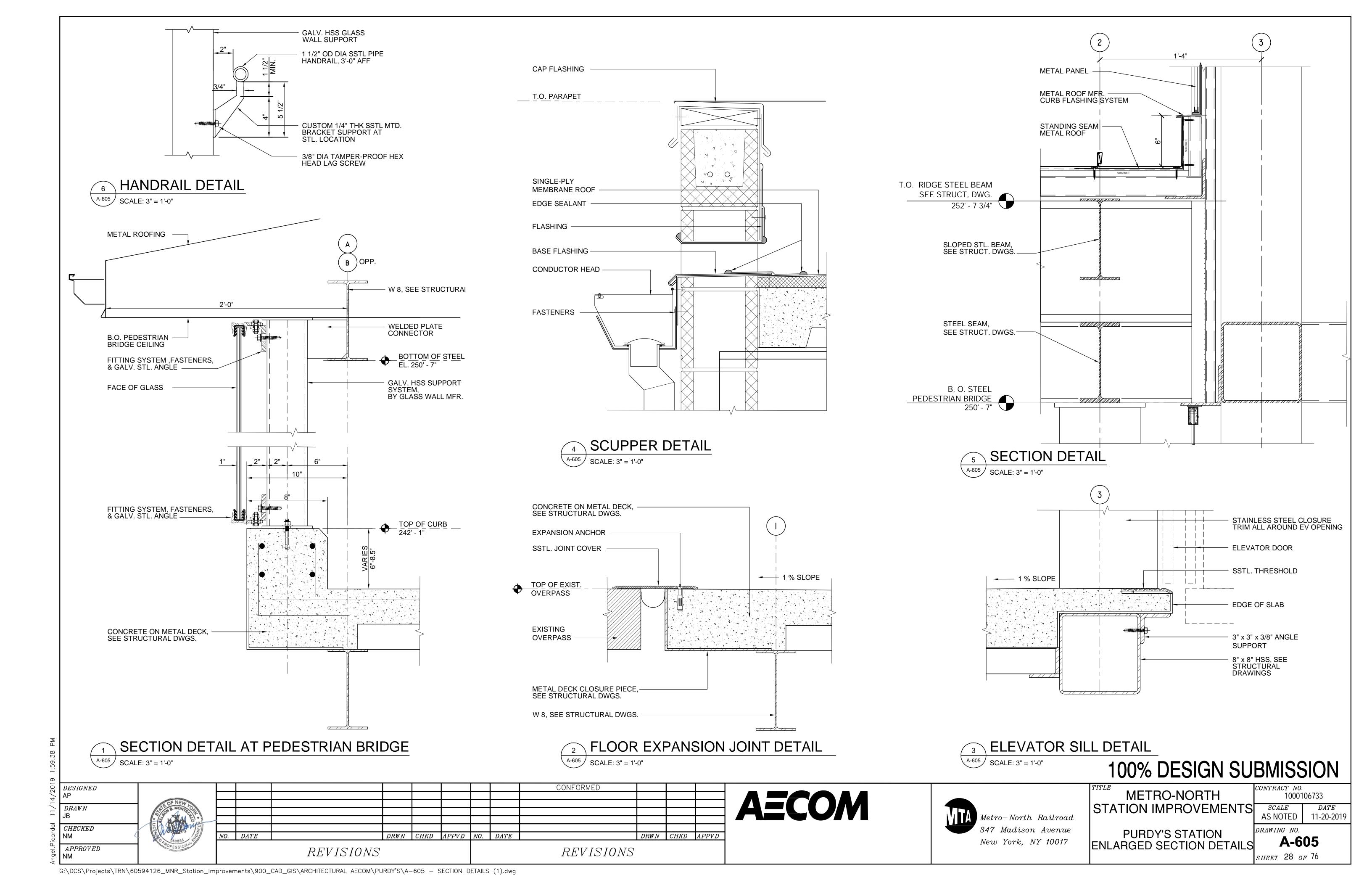
SCALE DATE
AS NOTED 11-20-2019

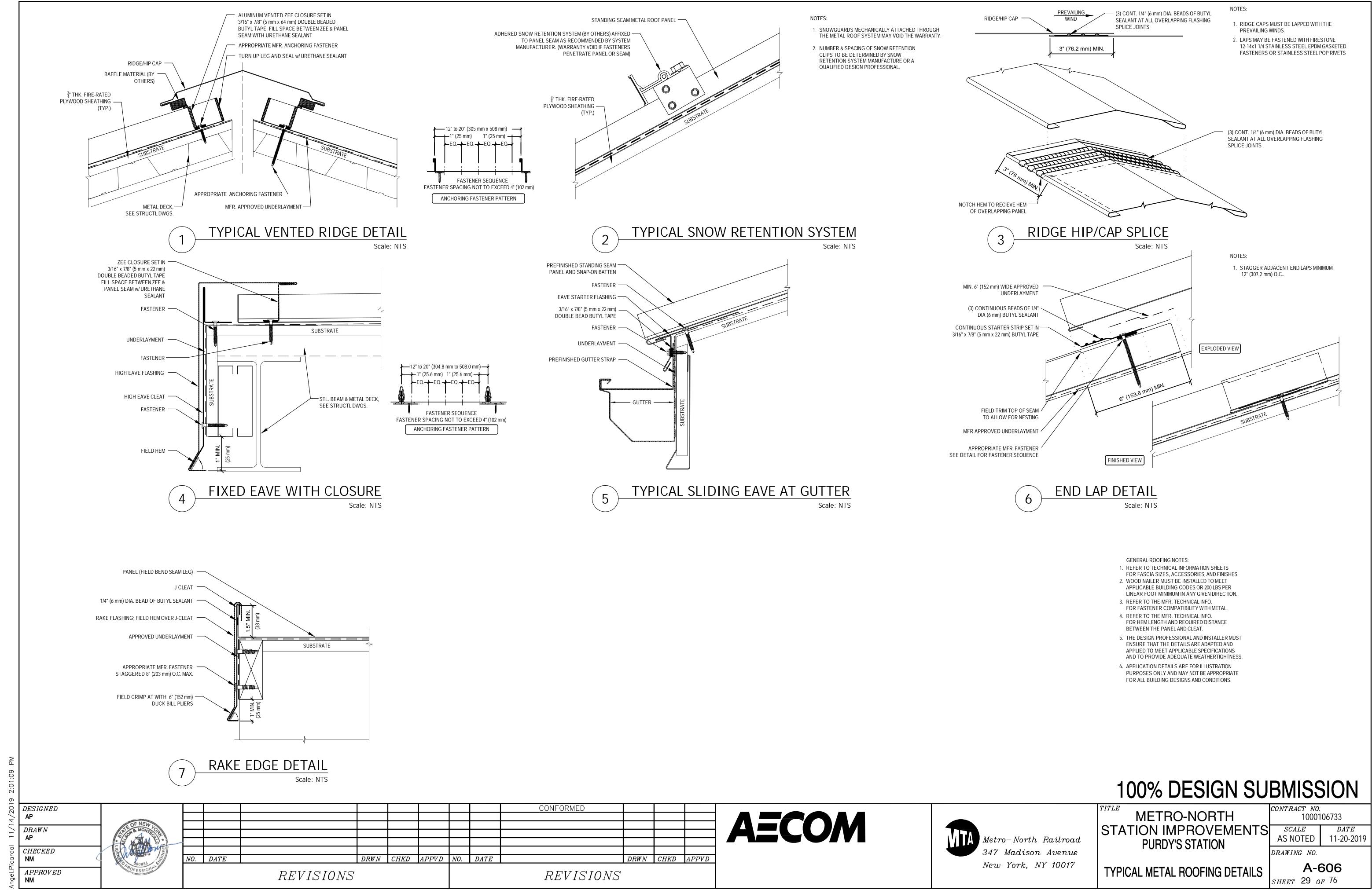
DRAWING NO.

A-604

SHEET 27 OF 76

EDGE OF SLAB





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

В. С.	GROUND SNOW LOAD	20PSF CATEGORY
E.	SEISMIC:	123 1111 11
	Ss=	
	$S_1 = $	0.069g
		32.2ft/S^2
	SITE CLASS CATEGORY =	В

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

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 34" 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.
- 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.
- 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.
- 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 3/4". 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 $\frac{1}{16}$ " 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.
- 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 ¾" 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

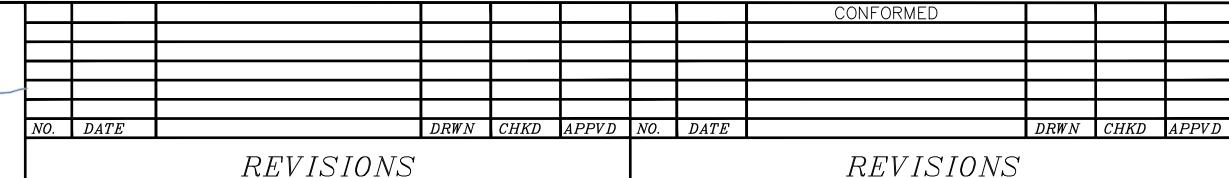
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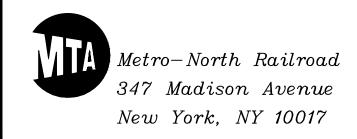












METRO-NORTH STATION IMPROVEMENTS **PURDYS STATION** STRUCTURAL NOTES - 1

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

DRAWING NO. S-101

SHEET 30 OF 76

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

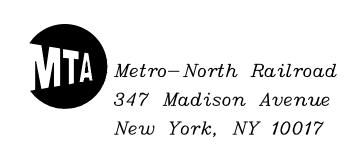
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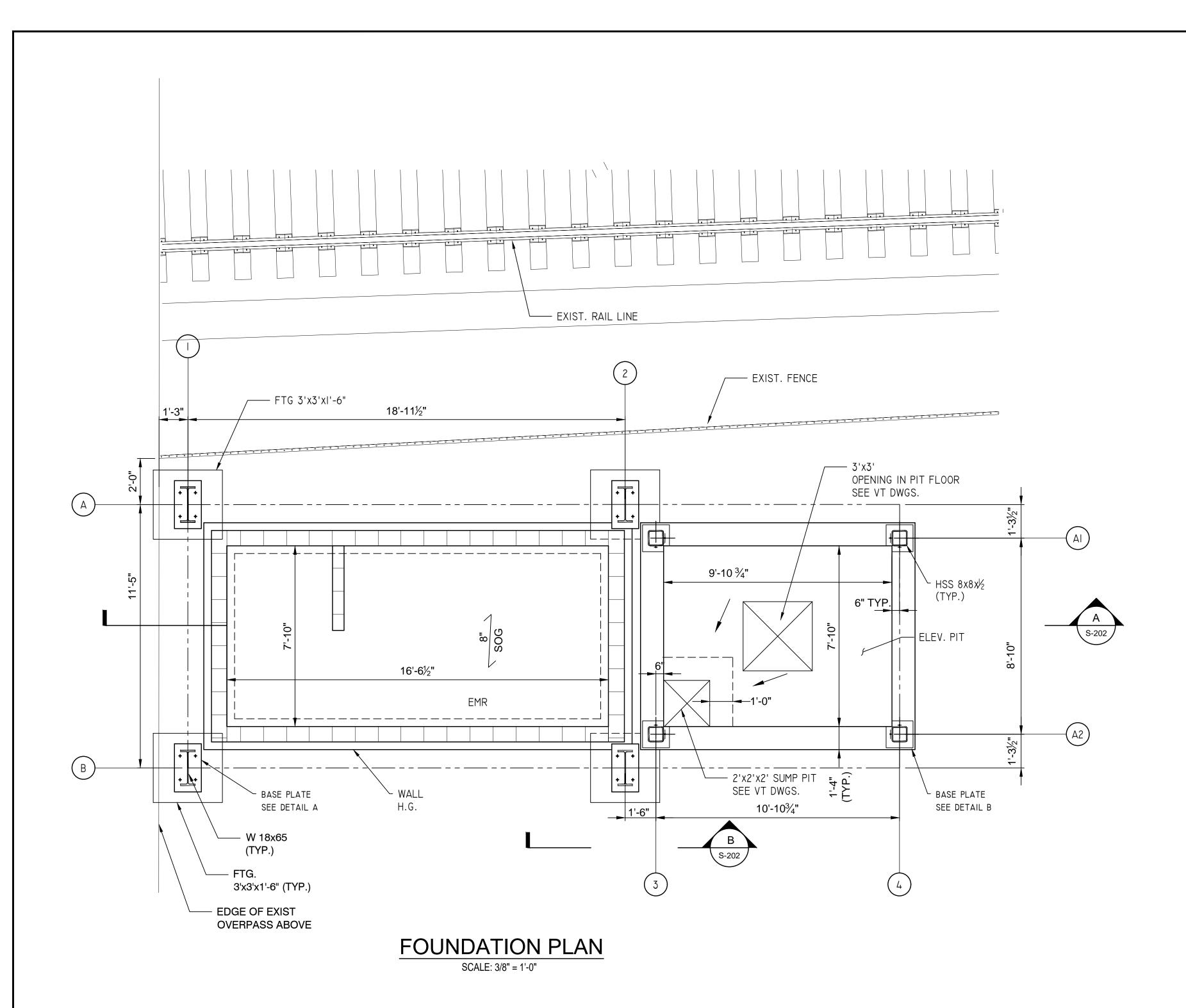
METRO-NORTH STATION IMPROVEMENTS

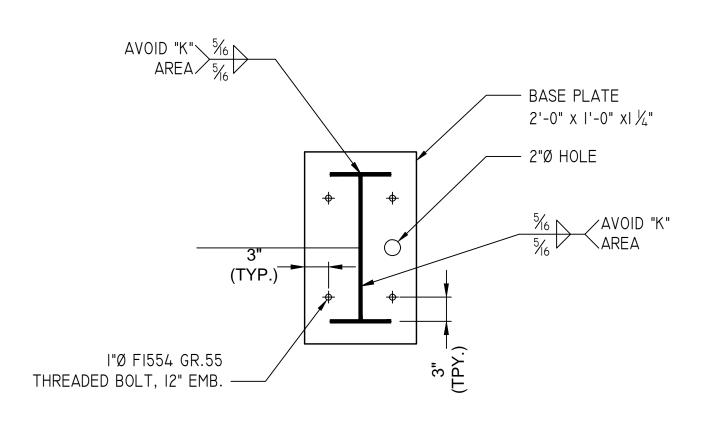
> **PURDY'S STATION** STRUCTURAL NOTES - 2

CONTRACT NO. 1000106733 SCALE AS NOTED 11-20-2019 DRAWING NO. **S-102**

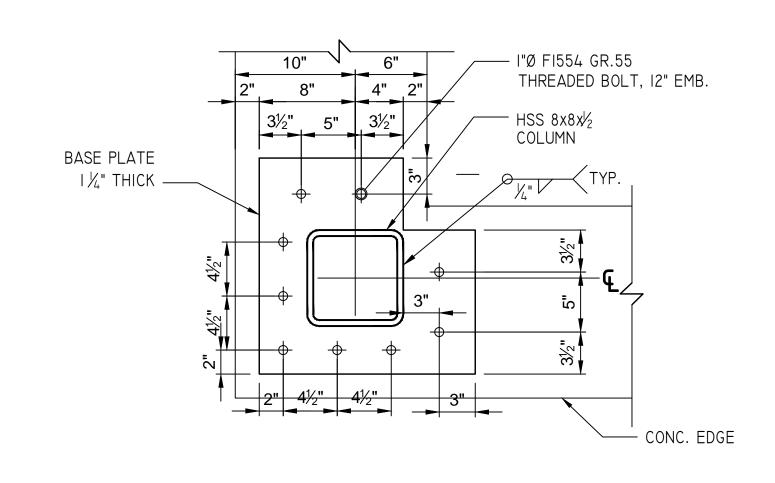
SHEET 31 OF 76

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A COLUMN BASE PLATE DETAIL SCALE: 1": 1'-0"



B BASE PLATE DETAIL

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

NOTES:

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- 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

NO. DATE

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METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
FOUNDATION
PLAN

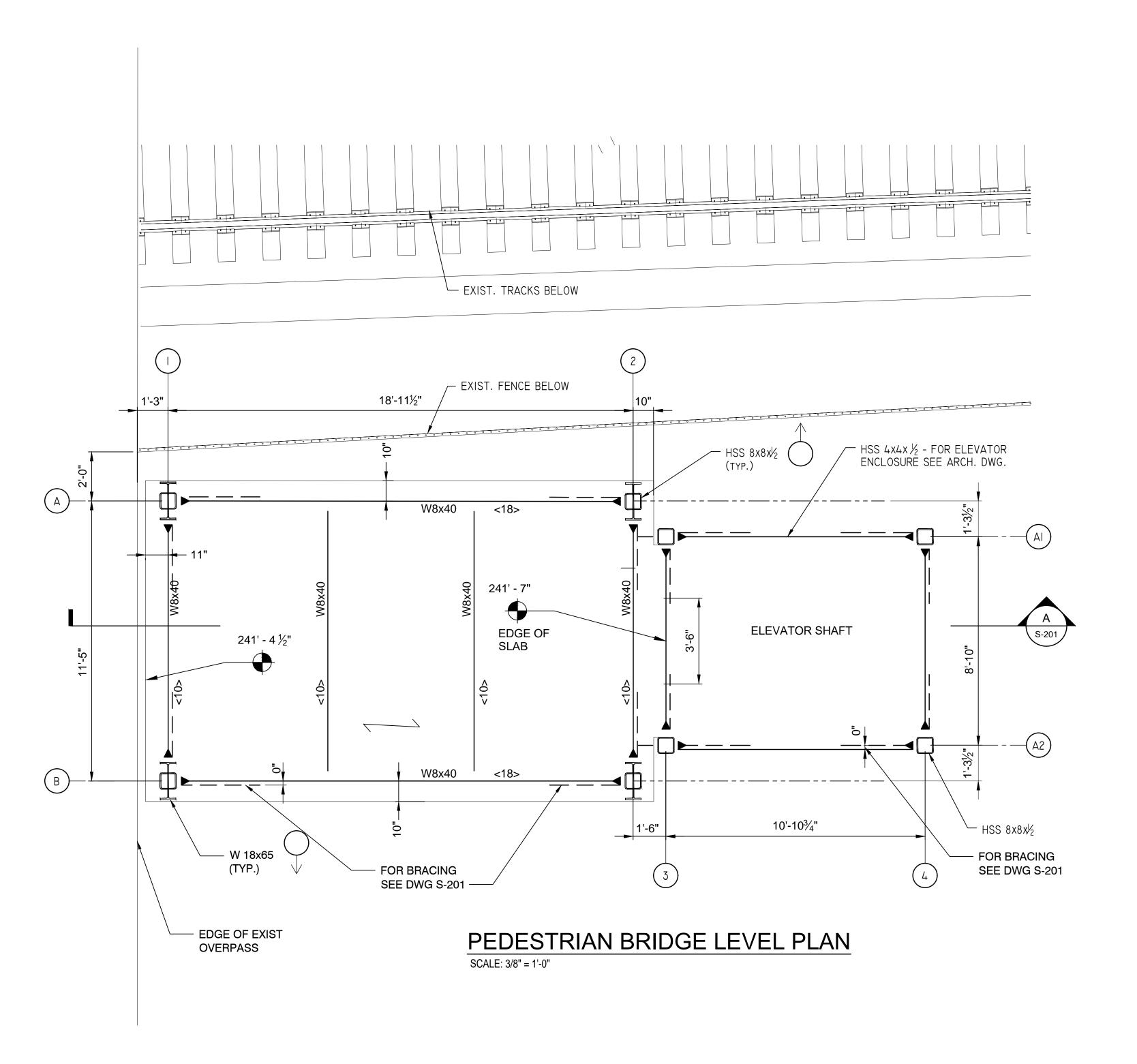
CONTRACT NO.
1000106733

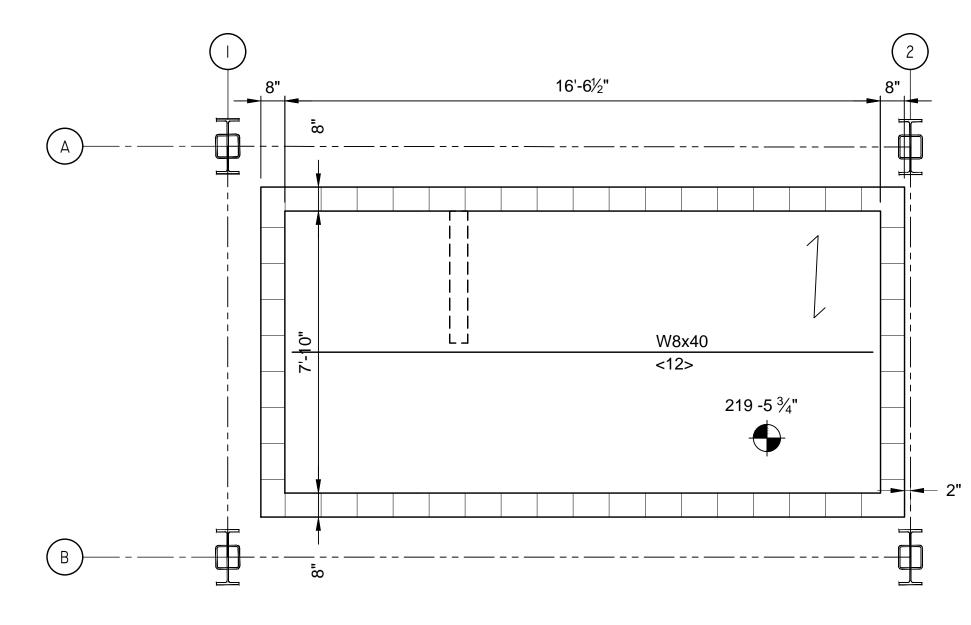
SCALE DATE
AS NOTED 11-20-2019

DRAWING NO.

S-111

SHEET 32 OF 76





EMR ROOF LEVEL PLAN SCALE: 3/8" = 1'-0"

- 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 3/4" øx4 1/2" HEADED SHEAR CONNECTORS.

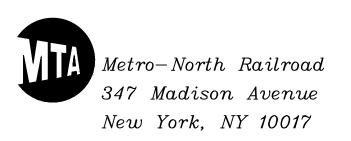
5. FOR STRUCTURAL NOTES SEE DWGS S-101, S-102

6. FOR GENERAL NOTES SEE DWGS G-102, G-103.

100% DESIGN SUBMISSION

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

CONTRACT NO. 1000106733 11-20-2019 AS NOTED DRAWING NO. **S-121**

SHEET 33 OF 76

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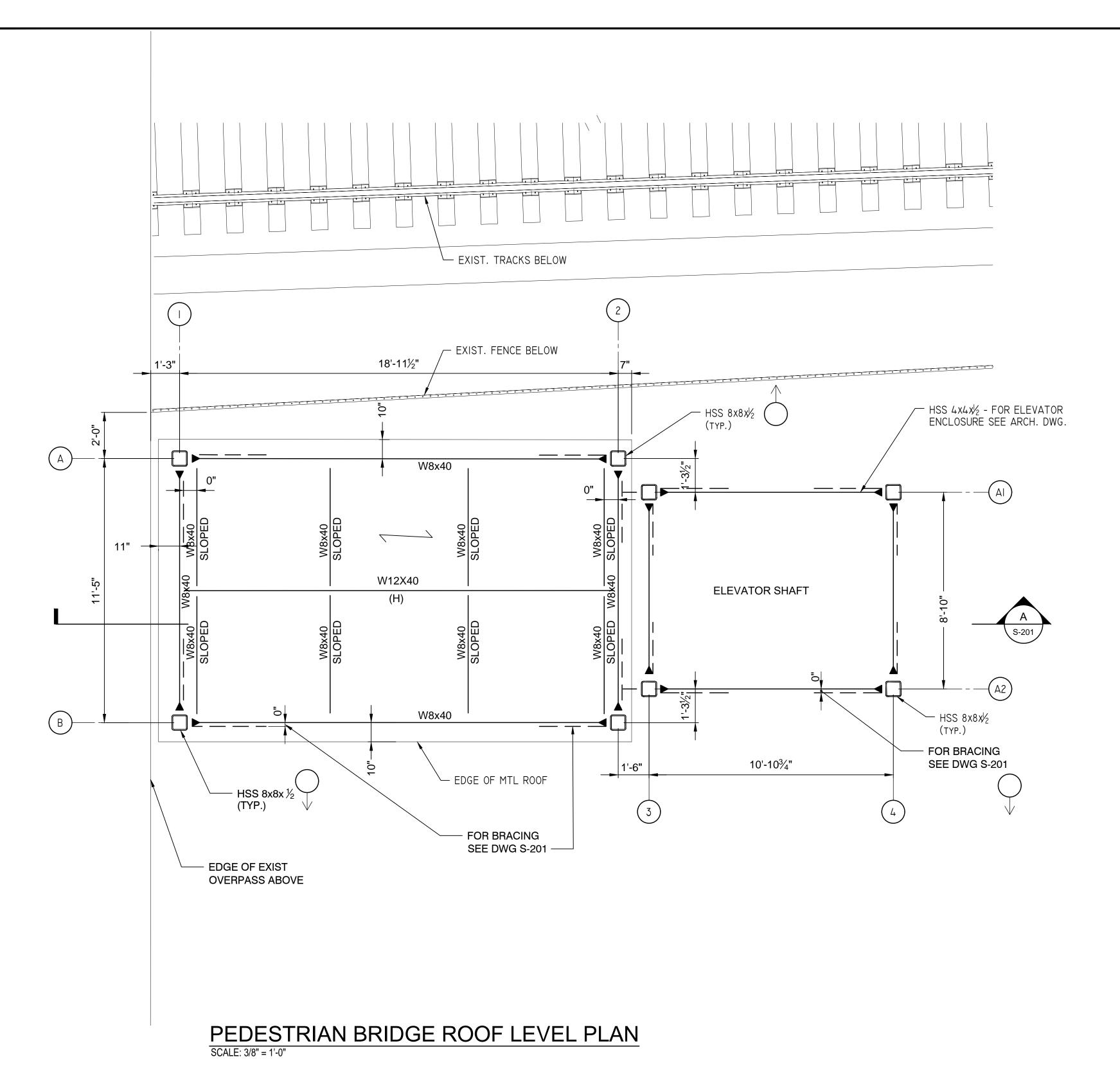
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NOTES:

1. FOR STRUCTURAL NOTES SEE DWGS S-101, S-102

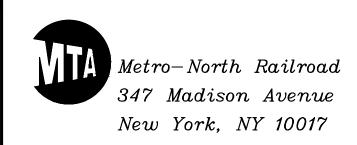
2. FOR GENERAL NOTES SEE DWGS G-102, G-103.

3. TOK GENERAL NOTES SEE DWGS G=102, G=103.

3. TOK GENERAL NOTES DIRECTION OF ROOF DECK TYPE 1.5 F=18 GAGE GALVANIZED BY VULCRAFT OR APPROVED EQUAL.

100% DESIGN SUBMISSION

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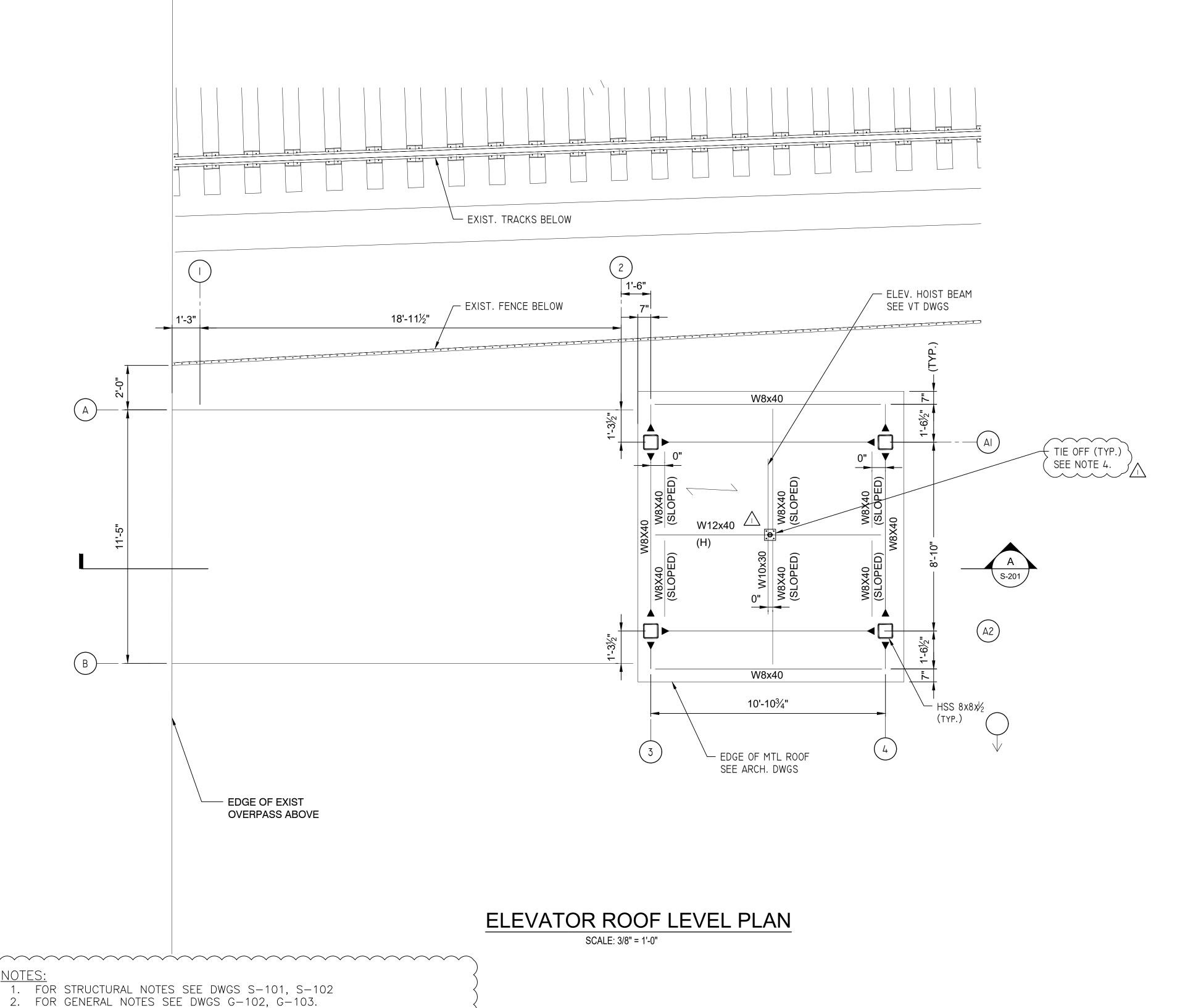


METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
PEDESTRIAN BRIDGE ROOF LEVEL
PLAN

CONTRACT NO.
1000106733

SCALE DATE
AS NOTED 11-20-2019

DRAWING NO. **S-122**SHEET 34 OF 76



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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. 4. QUANTITY OF ANCHOR POINTS AND HORIZONTAL LIFE LINE FOR THE

TIE-OFFS (FALL RESISTANCE LINKED SYSTEM) SHALL COMPLY WITH OSHA 1910.140 AND METRO-NORTH DESIGN GUIDELINES. CALCULATIONS FOR FALL ARREST CONFIGURATION TO BE PROVIDED BY SELECTED VENDOR. BASIS OF DESIGN: SIMPLIFIED SAFETY OF SAFE SITE OR APPROVED EQUAL.

1 2/25/2020

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

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

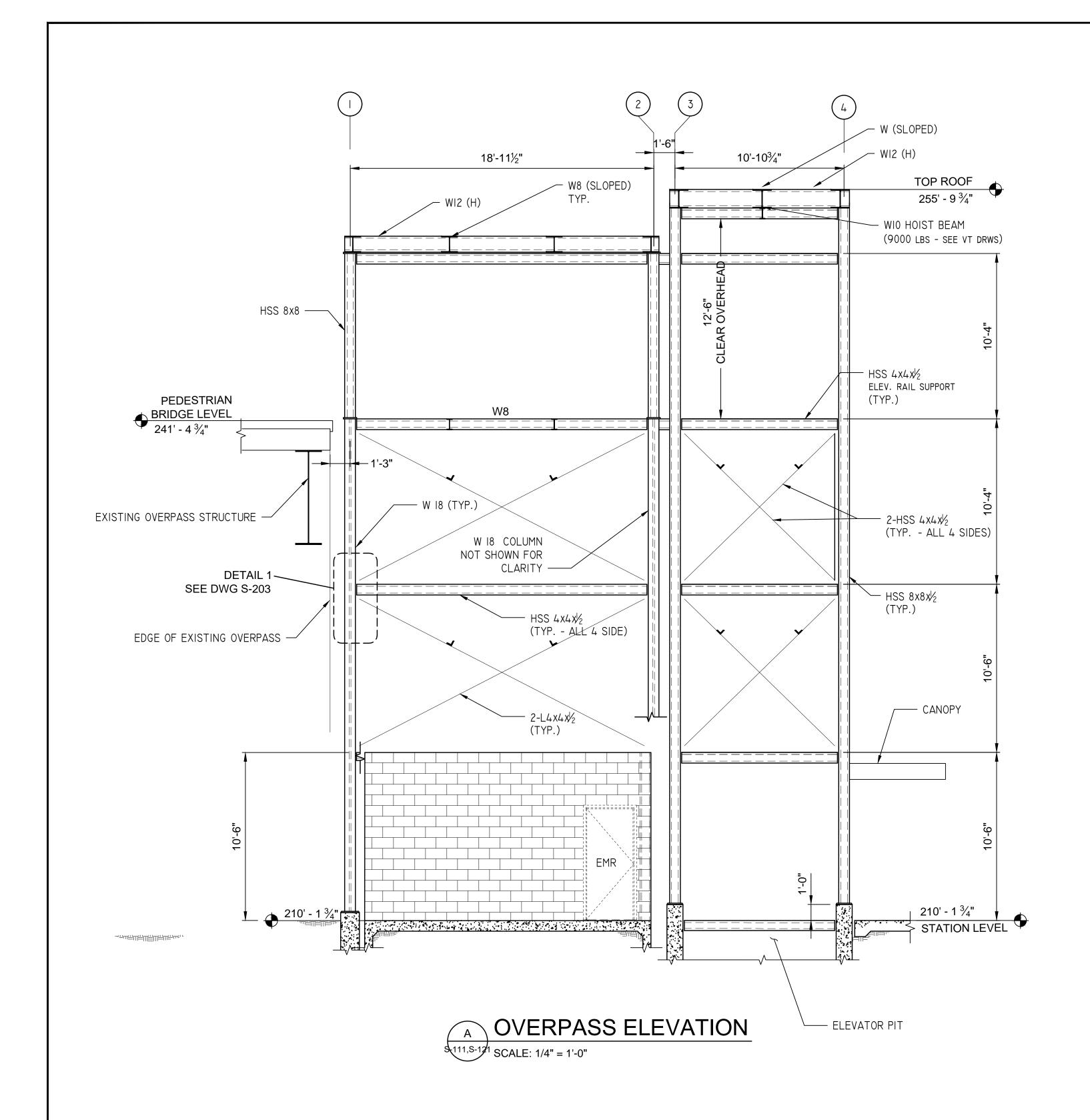
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METRO-NORTH	CONTRACT NO. 1000106733	
PURDY'S STATION ELEVATOR ROOF LEVEL	SCALE AS NOTED	DATE 11-20-2019
	DRAWING NO. S-123	

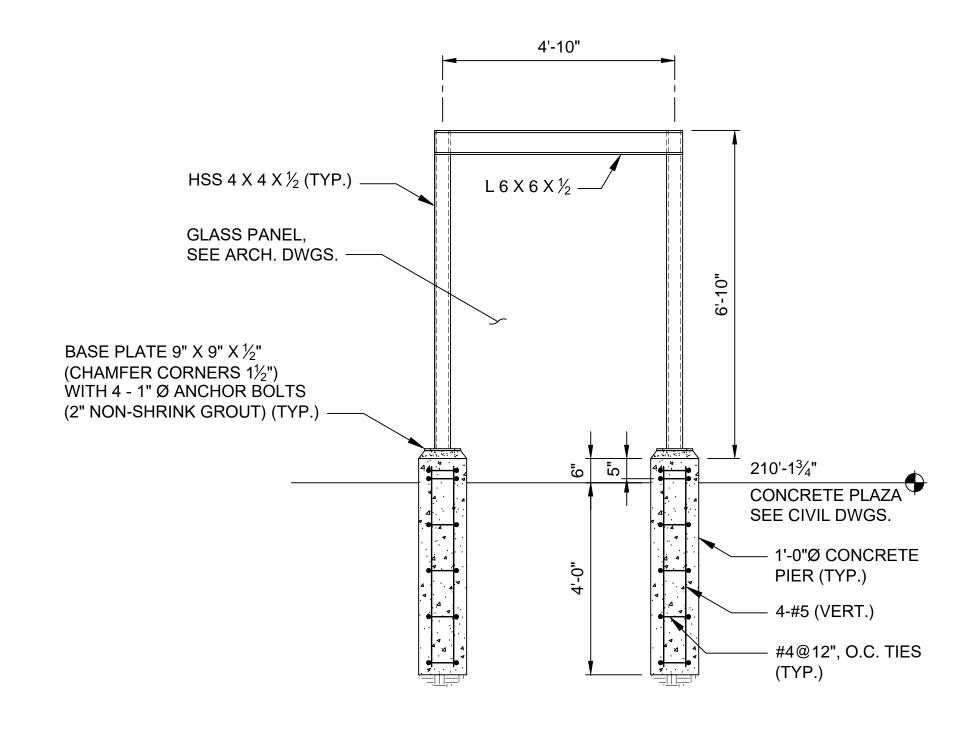
SHEET 35 OF 76

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FALL PROTECTION

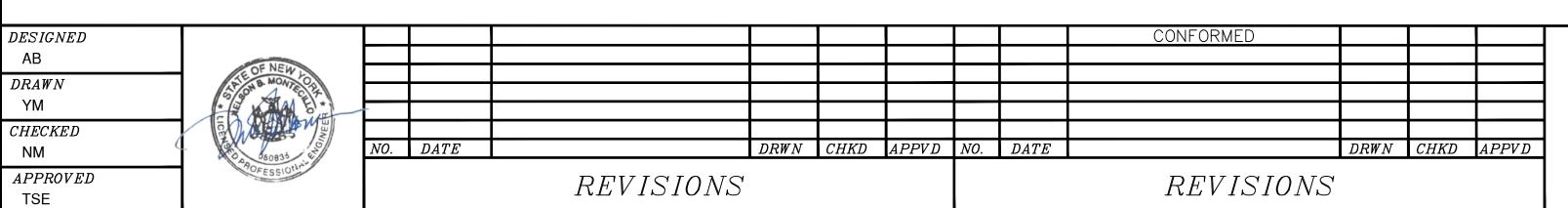
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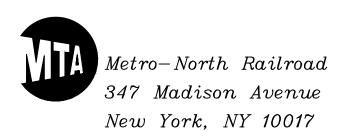




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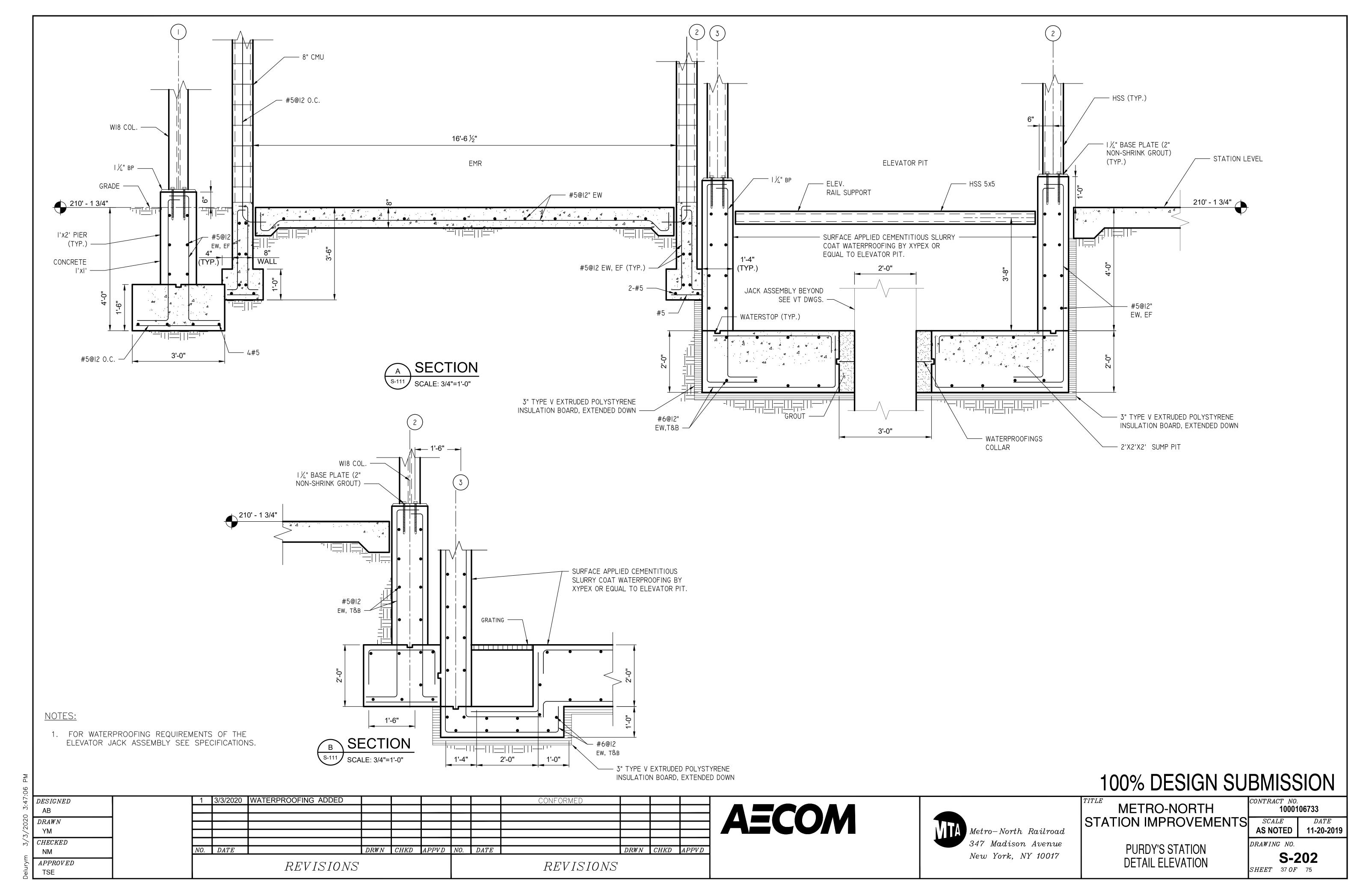
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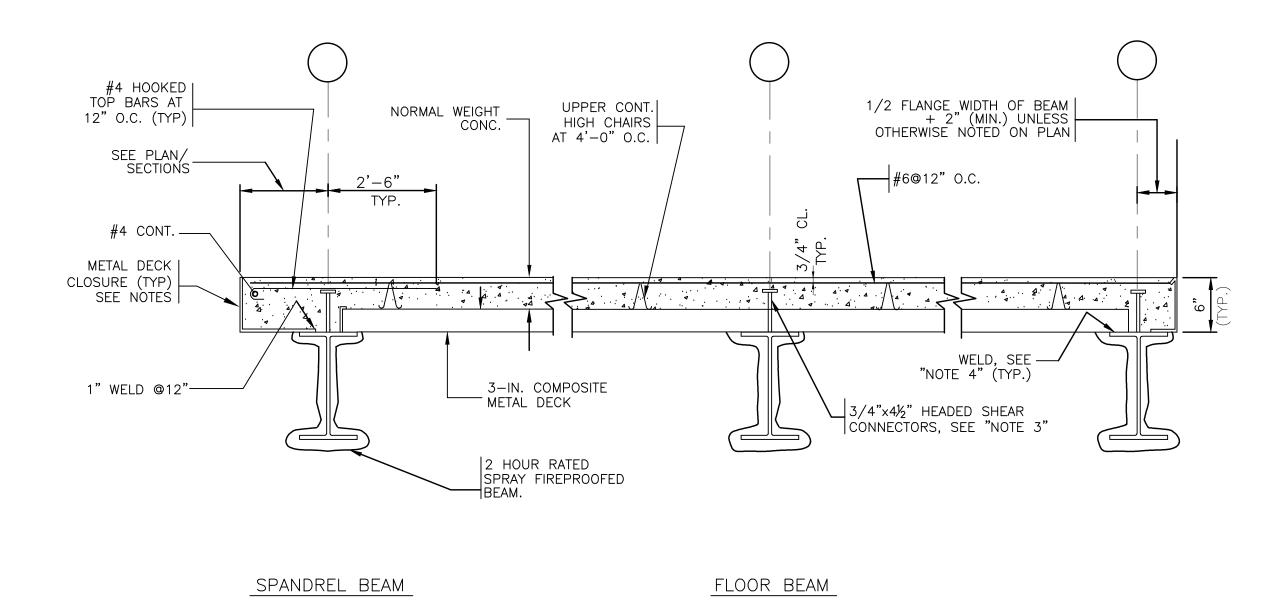


METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
ELEVATIONS

S SCALE DATE
AS NOTED 11-20-2019

DRAWING NO. **S-201**SHEET 36 OF 76







€ W18 COLUMN 4-1/2"Ø A325 BOLTS A325 BOLT (TYP.) — - — - — € HSS 4x4x½

CONNECTION DETAIL S-201 SCALE: NTS

NOTES:

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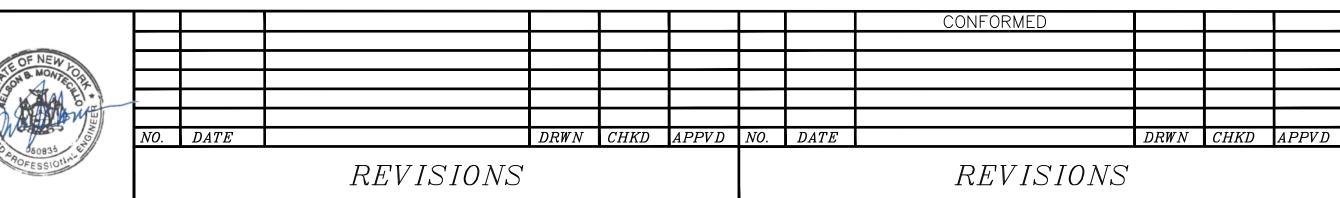
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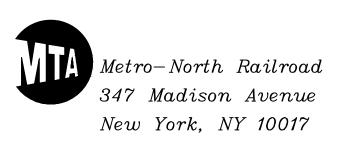
- 1. ATTACH DECK PANELS TO ONE ANOTHER AT SIDE LAPS BY MECHANICALLY FASTENING WITH #10 SHEET METAL SCREWS AT 24" ON CENTER.
- 2. NUMBER OF SHEAR CONNECTORS IS SHOWN ON PLANS BY <- ->.
- 3. WELD DECK TO STEEL WITH 3/4" DIA. PUDDLE WELDS AT 12" ON CENTER OR UL-APPROVED POWDER-ACTUATED FASTENERS. WHERE 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 ÈNGINEER OF RECORD.

100% DESIGN SUBMISSION





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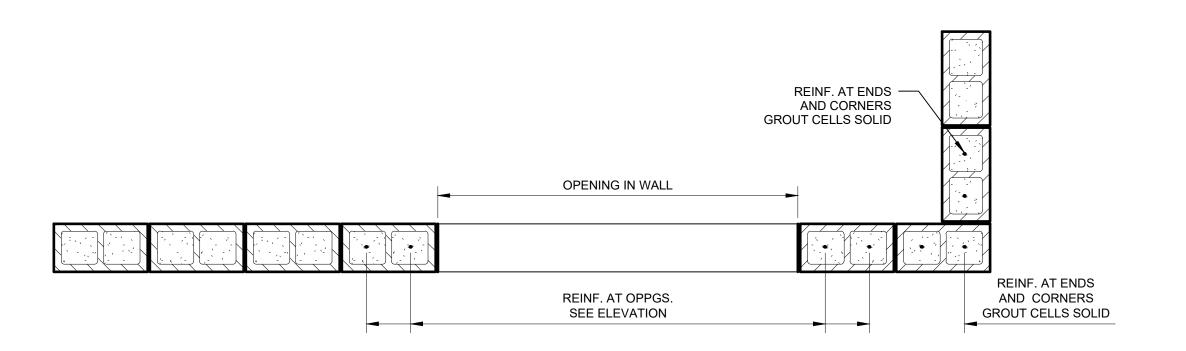


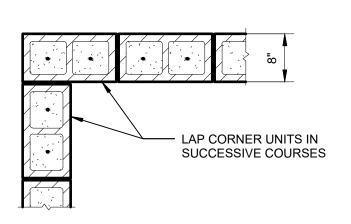
METRO-NORTH STATION IMPROVEMENTS

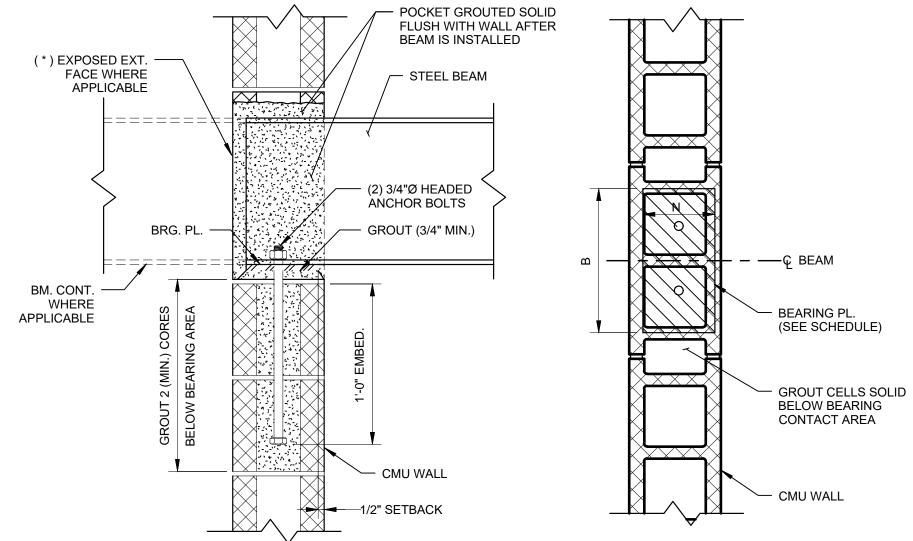
> PURDY'S STATION **DETAIL**

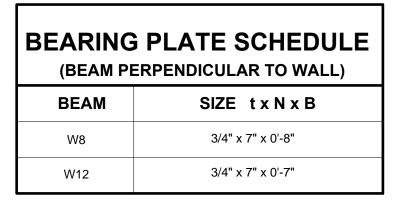
CONTRACT NO. 1000106733 SCALEAS NOTED 11-20-2019 DRAWING NO. **S-203**

SHEET 38 OF 76









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

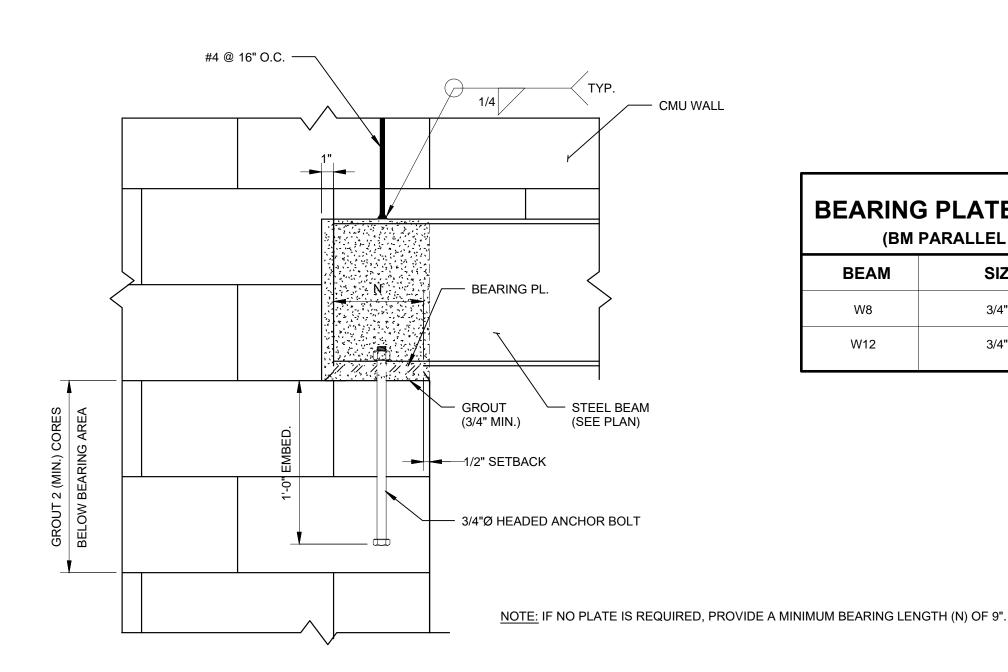
TYP. DET. OF STEEL BEAM BEARING ON CMU WALL 1 S-204 | SCALE: NTS



STI	ONRY WALL EEL LINTEL CHEDULE
MAX. WALL OPENING	MASORNY WALL THICKNESS
OFLINING	8" WALL
3'-0"	2- JL3 1/2x3 1/2x1/4
4'-0"	2-
5'-0"	2- JL5x3 1/2x1/4
6'-0"	2-

NOTES:

- 1. PROVIDE AND INSTALL LINTEL ANGELS FOR MASONRY OPENINGS IN ACCORDANCE WITH THE SCHEDULE ABOVE. INSTALL
- 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



SIZE txNxB	BEAM
3/4" x 7" x 0'-8"	W8
3/4" x 7" x 0'-7"	W12

TYP. DET. OF STEEL BEAM BEARING ON CMU WALL 2

100% DESIGN SUBMISSION

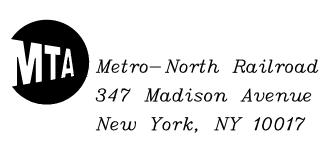
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METRO-NORTH STATION IMPROVEMENTS

PURDYS STATION TIPICAL MASONRY **DETAILS**

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

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.
- 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.

<u>CLEANING NOTES:</u>

- 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

DESIGNED

J. CRESPO

DRAWN

J. CRESPO

CHECKED

M. MELLER

APPROVED

AR. GULERIA, P.E.

REVISIONS

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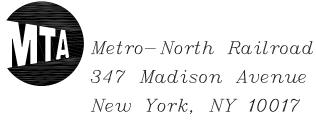
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Fax (212) 268-7497



METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
GENERAL NOTES

ONTRACT NO.
1000106733

SCALE DA

 SCALE
 DATE

 NONE
 11-20-2019

 DRAWING NO.

M-001SHEET 40 OF 76

ABBREVIATIONS:

AIR CONDITIONING QTY. AUTOMATIC CONTROL DAMPER RF ACOUSTICAL TILE CEILING ACCESS DOOR AFF RLA ABOVE FINISH FLOOR AHU AIR HANDLING UNIT ACOUSTICALLY LINED DUCTWORK RPM RR APPROXIMATE BACKDRAFT DAMPER BMS SD BUILDING MANAGEMENT SDET SYSTEM SEF BOTTOM OF DUCT SF BOTTOM OF UNIT BRITISH THERMAL SP UNITS PER HOUR SR COOLING COIL SQFT CD CEILING DIFFUSER TG CG CEILING GRILLE TOD CUSTOMER SERVICE TOU EQUIPMENT ROOM TSP DB DRY BULB TYP. DEG DEGREE

EΑ EXHAUST AIR EF EXHAUST FAN EG EXHAUST GRILLE ENT ENTERING EQUIPMENT ESP

DIAMETER

DIFFUSER

EXISTING

EXTERNAL STATIC PRESSURE

ETC. ET CETERA EXIST. EXISTING EXH EXHAUST **FARENHEIT** FAN

DIA

DIFF

FC FLEXIBLE CONNECTION FIRE DAMPER (W/ACCESS FD/AD

DOOR) FLTR FILTER

FSD/AD COMB. FIRE/SMOKE DAMPER

(W/AD)FEET HEIGHT HEATING COIL HP HORSE POWER HERTZ IN. INCH ΚW KILOWATT

LEAVING AIR TEMPERATURE

LBS POUNDS MAXIMUM

MINIMUM CIRCUIT AMPS

MINIMUM

MAXIMUM OVERCURRENT PROTECTION

MAKE-UP AIR MAKE-UP WATER NEW NOISE CRITERIA NUMBER

NORMALLY OPENED NORMALLY CLOSED ОА OUTSIDE AIR OUTSIDE AIR INTAKE

РΗ PHASE

SOME SYMBOLS AND ABBREVAITIONS MAY NOT

SYMBOLS:

QUANTITY

ROOM

RETURN AIR

RETURN FAN

SUPPLY AIR

SUPPLY FAN

SUPPLY GRILLE

SQUARE FOOT

TOP OF DUCT

TOP OF UNIT

TYPICAL

VOLTS

WIDTH

WET BULB

WATER GAUGE

WIRE MESH SCREEN

VD

WB

W.G.

WMS

STATIC PRESSURE

SUPPLY REGISTER

TRANSFER GRILLE

VOLUME DAMPER

TOTAL STATIC PRESSURE

RETURN GRILLE

RETURN REGISTER

SMOKE DAMPER

SMOKE DETECTOR

SMOKE EXHAUST FAN

RATED LOAD AMPERAGE

REVOLUTIONS PER MINUTE

SYMBOL	DESCRIPTION
	SUPPLY AIR
	RETURN OR EXHAUST AIR
SD/AD	SMOKE DAMPER W/AD
TFD/AD	FIRE DAMPER W/AD
── FSD/AD	COMBINATION FIRE & SMOKE DAMPER W/AD
——M	MOTORIZED DAMPER
T	THERMOSTAT/SENSOR
	GRILLE OR REGISTER
\boxtimes	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)
≥—XA(200)	DESIGN CFM
₹—— ?	CIRCUIT SETTER BALANCING VALVE
₹	BALL VALVE
₹	STRAINER
·	CAPPED OUTLET
P P	PRESSURE GAUGE
₹—— 	THERMOMETER
₹—— ——₹	SOLENOID VALVE
────	AIR FLOW
	CONNECT NEW TO EXISTING
	TERMINATION POINT OF DEMOLITION
	CONNECT TO MANUEACTURERS DRE DIRED

CONNECT TO MANUFACTURERS PRE-PIPED

CONNECTION

LINE DESIGNATIONS:

PIPING/EQUIPMENT ---- NAME -----(SERVICE AS INDICATED) EXISTING PIPING/EQUIPMENT TO REMAIN ---- (E)NAME ----(SERVICE AS INDICATED) EXISTING PIPING/DUCTWORK/EQUIPMENT $\overline{}$ TO BE REMOVED (SERVICE AS INDICATED) FUTURE EQUIPMENT — · · — (NAME) — (SERVICE AS INDICATED) CONDENSATE DRAIN ____ CD ____ GLYCOL CHILLED WATER RETURN — GCHWR—— GLYCOL CHILLED WATER SUPPLY —— GCHWS—— CHILLED WATER RETURN CHILLED WATER SUPPLY DRAIN ____ D ____ EXHAUST AIR ____ EA ____ RETURN AIR ____ RA ____ REFRIGERANT LIQUID —— RL —— REFRIGERANT SUCTION ----- RS -----REFRIGERANT DISCHARGE SUPPLY AIR

LOW VOLTAGE WIRING

REFERENCE SYMBOLS:

/ DETAIL NUMBER

1 DETAIL TITLE M-002 SCALE: The DRAWING NUMBER → SECTION NUMBER \ A205 / - DRAWING NUMBER / DETAIL NUMBER XXX J - DRAWING NUMBER - REVISION NUMBER 1 KEY NOTE

100% DESIGN SUBMISSION

DESIGNED J. CRESPO DRAWNJ. CRESPO CHECKEDM. MELLER APPROVEDAR. GULERIA, P.E.

BE USED ON THIS PROJECT'S DRAWINGS

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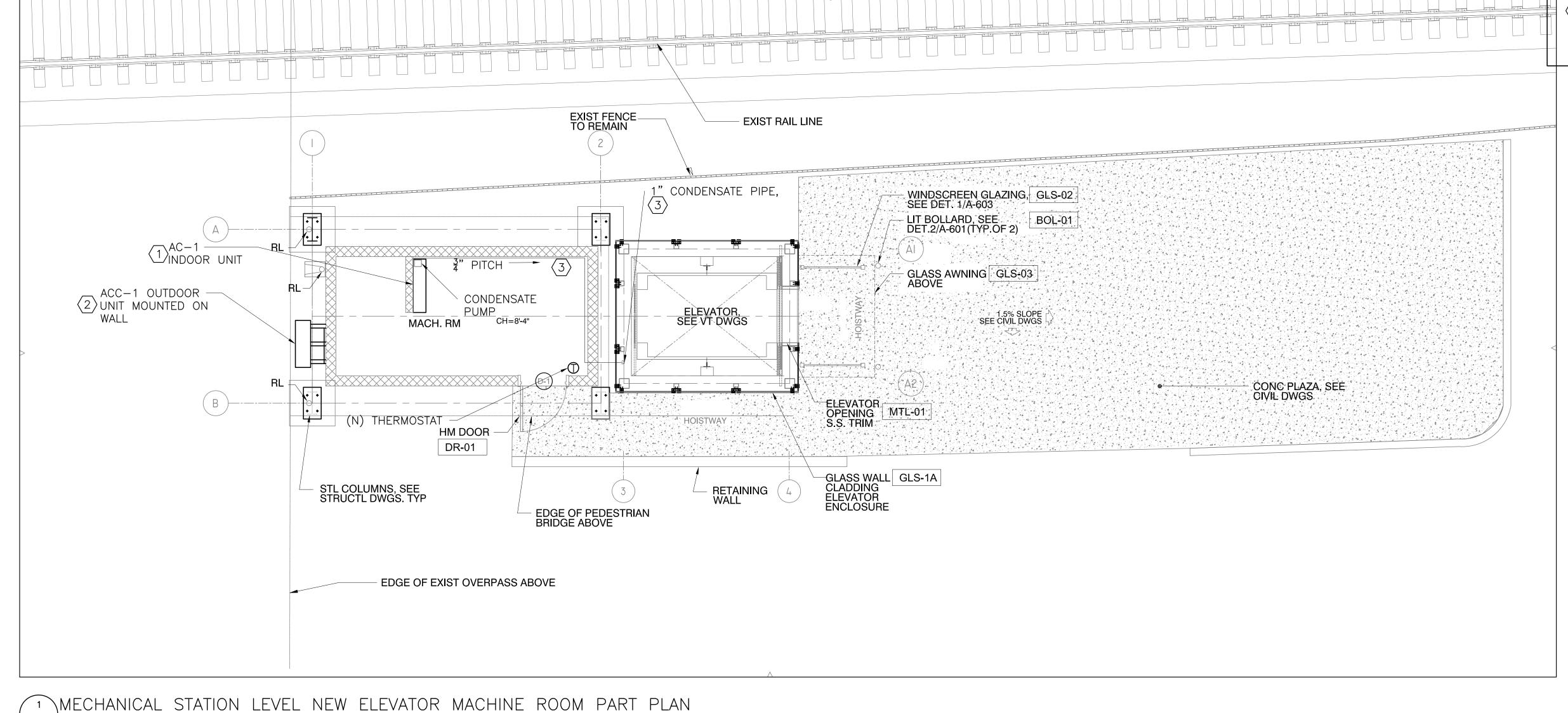
METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION ABBREVIATIONS** AND SYMBOLS

1000106733 NONE

11-20-2019 DRAWING NO. **M-002** SHEET **41** OF **76**

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:
- $\langle 1 \rangle$ 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
- $\langle 2 \rangle$ 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



NEW ELEVATOR MACHINE ROOM EXISTING PLATFORM

STATION LEVEL

100% DESIGN SUBMISSION

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)t:	AR. GULERIA, P.E.													

AECOM A.G Consulting Engineering, PC 131 West 33rd Street, Suite 12B New York, NY 10001 Tel. (212) 268-0950 Fax (212) 268-7497



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

1000106733

AS NOTED 11-20-2019 RAWING NO. **M-201**

SHEET **42** OF **76**

M-201 SCALE: 1/4"=1'-0"

								DUC	TLESS HEA	T PUMP SYS	STEM SCHE	DULE (CON	TINUATION)					
	AREA	INDOOR UNIT	NOMINAL	TYPE	CFM	COOLING	SENSIBLE	ENTERING AIR TEMPERATURE	HEATING			EV	APORATOR (INDOOR UNIT) EL	ECTRICAL DAT	ΓΑ			MANUFACTURER AND MODEL
NDOOR	SERVICED	LOCATION	TONS	ITPE	CFIM	TOTAL (BTU/HR)	(BTU/HR)	(F DB/DB)	(BTU/H)	V/PH/HZ	MCA	MOP	DIMENSIONS (WxHxD)	WEIGHT OPERATING LBS	DRAIN PIPE SIZE INCHES	REFRIG. PIPE SIZE GAS	REFRIG. PIPE SIZE LIQUID	NUMBER
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

NOTES:

 REFER TO DRAWING M-201 FOR MECHANICAL PLANS.

DUCTLESS HEAT-PUMP SYSTEM SCHEDULE (CONTINUATION)

						(CONDENSI	NG UNIT								
OUTDOOR	LOCATION	NOMINAL TONNAGE	DESCRIPTION	COOLING BTU/H	AMBIENT DESIGN (F DB)	REFRIGE RANT TYPE	HEATING BTU/H	AMBIENT DESIGN TEMP. (F DB/WB)	V/PH/HZ	MCA	MOP	RUNNING CURRENT AMPS (RLA)	DIMENSIONS (WxHxD)	WEIGHT (LBS.)	EER	MANUFACTURER AND MODEL NUMBER
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

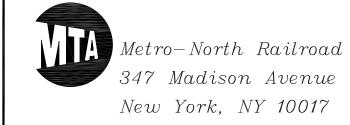
SEQUENCE OF OPERATIONS:

- 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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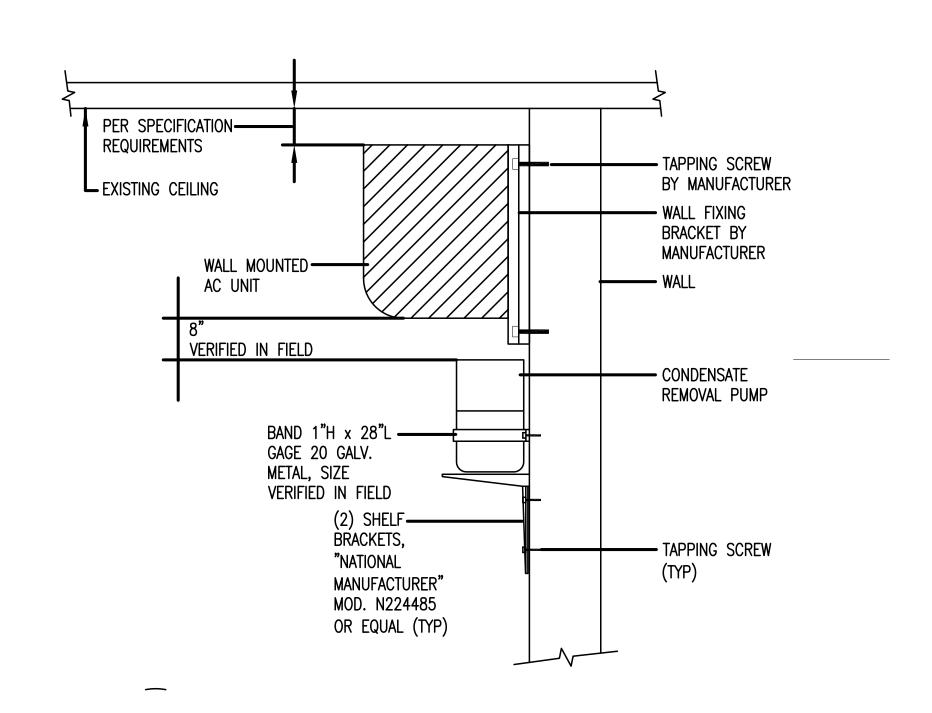




METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
SCHEDULES

	10001	06733
S	SCALE NONE	<i>DATE</i> 11-20-2019

M-501
SHEET 43 OF 76



EXISTING EXPANSION BOLT (TYP). FILL CMU WALL PROTECTIVE CAGE BY **EXTERIOR** CMU WITH GROUT IN PROXIMITY OF BOLTS. PROPERTY ARMOR BOLT DIAMETER AND QUANTITY MODEL SERIES P2 SLAMMER (OR APPROVED PER OUTDOOR UNIT AND BRACKETS MANUFACTURER EQUAL.) REQUIREMENTS (TYP) - WALL BRACKET BY "DAIKIN" WALL MOUNTED -(OR APPROVED EQUAL) OUTDOOR AC UNIT WITH WIND BAFFLE ISOLATION PAD MINIMUM THICKNESS: 1"+ BY UNIT MANUFACTURER— CMU WALL INTERIOR EXISTING GROUND

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

100% DESIGN SUBMISSION

CONFORMED DESIGNED J. CRESPO DRAWNJ. CRESPO CHECKEDNO. DATEDRWN CHKD APPVD NO. DATE M. MELLER REVISIONS REVISIONS APPROVEDAR. GULERIA, P.E.





METRO-NORTH STATION IMPROVEMENTS PURDY'S STATION

1000106733 NONE 11-20-2019

DRAWING NO. M-601 SHEET **44** OF **76**

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1 TYPICAL SUPPORT FOR WALL MOUNTED AC UNIT

M-601 SCALE: NOT TO SCALE

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	(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:

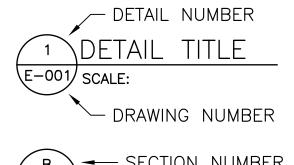
A AMD	ALARM	HV,H	HIGH VOLTAGE (277/480V)
A, AMP	AMPERE	HZ	HERTZ
AIC	AMPERE INTERRUPTING CAPACITY	ID J, JB	INDICATING DEVICE CIRCUIT (FA) JUNCTION BOX
AC	ALTERNATING CURRENT/	KAIC	KILOAMPERE INTERRUPTING
ACC	OUTDOOR AIR COOLED	10.110	CAPACITY
	CONDENSER	KVA	KILOVOLT AMPERE
A/C	AIR CONDITIONING UNIT		THOUSAND CIRCULAR MIL
AF	AMPERE FUSE	KVAR	KILOVOLT AMPERES REACTIVE
	ABOVE FINISHED FLOOR	KW	KILOWATT
	AIR HANDLING UNIT	KWH	KILLOWATT HOURS
	APPROXIMATE	LP	LIGHTING PANEL
ARCH	ARCHITECTURAL	LTG	LIGHTING
	AMPERE SWITCH		
AT	AMPERE TRIP	LV, L	` '
	AUTOMATIC TRANSFER SWITCH	MACH.	MACHINE MONITOR MODILIE
AUX	AUXILIARY	MM	MONITOR MODULE
		MCB	MAIN CIRCUIT BREAKER
AWG		MDSB	MAIN DISTRIBUTION
BLDG	BUILDING	N	SWITCHBOARD
CAT	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	PB	PULL BOX
	OR WIRING)	PF	POWER FACTOR
CSER	COMMUNICATION SERVICE	RGS	RIGID GALVANIZED STEEL
	EQUIPMENT ROOM		(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	REQ	REQUIRED
	WIRING)	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	SVR	SERVER
	AND REMOVED	SW	SWITCH
ERL	EXISTING TO BE RE-USED	SWS	SWITCHES
	(DISCONNECTED, RELOCATED	S	SUPERVISORY
	•	T	TRANSFORMER
	AND REWIRED)	TBD	TO BE DETERMINED
EUH	ELECTRIC UNIT HEATER	TR	TRACK
EQUIP	EQUIPMENT		SURGE SUPRESSION
EXIST	EXISTING	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UOI	UNLESS OTHERWISE INDICATED
FBO	FURNISHED BY OTHERS	UON	UNLESS OTHERWISE NOTED
FU	FUSE	UOS	UNLESS OTHERWISE SPECIFIED
GEN	GENERAL	V	VOLTS
G,GND	GROUND	v VA	VOLT AMPERE
GFI 	GROUND FAULT INTERRUPTER	W	WATTS, WIRE
GFP	GROUND FAULT PROTECTION		
HP	HORSEPOWER, HELP POINT	W/	WITH
	INTERCOM	WP MNID	WATERPROOF
HPS	HIGH PRESSURE SODIUM	MNR	METRO NORTH RAILROAD
	(LAMP)	NISE, GCU	NEW YORK STATE ELECTRICAL
			GAS COMPANY

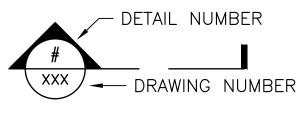
SYMBOLS:

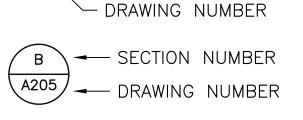
SYMBOL	DESCRIPTION
	HOMERUN TO PANELBOARD • ONE ARROW HEAD PER POLE • EACH CIRCUIT REQUIRES 2#12AWG AND 1#12G IN 3/4" CONDUIT, U.O.N.
G	 HASHMARKS DENOTE NUMBER OF WIRES IF MORE THAN TWO ARE REQUIRED. ARROWS DENOTE HOMERUNS OF PARTICULAR CIRCUITS MINIMUM 2#12 IN 3/4" CONDUIT U.O.N.

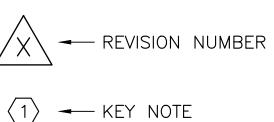
***	THREE-PHASE HOMERUN • EACH CIRCUIT REQUIRES 2#12AWG AND 1#12G IN 3/4" CONDUIT, U.O.N.						
Sa	SWITCH • a INDICATES FIXTURES CONTROLLED						
3P □ 60A	3 POLE UN-FUSED SAFETY DISCONNECT SWITCH. 240V OR 600V AS REQUIRED. • NUMBER INDICATES AMPERE SIZE IF OVER 30A						
Æ√	MOTOR • NUMERAL INDICATES HORSEPOWER						
	PANELBOARD						
PB	PULLBOX IN NEMA 4X ENCLOSURE						
7	SINGLE THROW SWITCH						
	FUSE						
1) <u>100AF</u> 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						
X mm	TRANSFORMER - WYE DELTA						
IJ	JUNCTION BOX						
0	CONDUIT UP						
•	CONDUIT DOWN						
•	CONDUIT UP/DOWN						
	NEW EQUIPMENT/CONDUIT						
	EXISTING TO REMAIN						
	EXISTING UNDERGROUND FEEDER						

REFERENCE SYMBOLS:









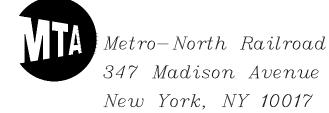
100% DESIGN SUBMISSION

DESIGNED O. TINEO O. TINEO CHECKEDA. LAMPA, P.E. APPROVED

A. GULERIA, P.E

CONFORMED DATEREVISIONS REVISIONS





GENERAL NOTES, SYMBOLS, LEGENDS

METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION**

AND LIGHTING FIXTURE SCHEDULE

1000106733 11-20-2019 NONE RAWING NO.

E-001 SHEET **45** OF **76**

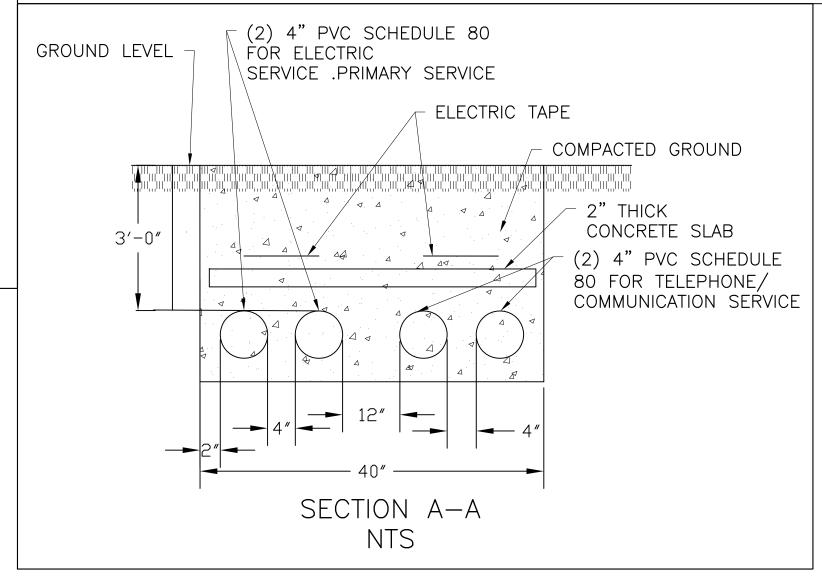
NYSEG TO INSTALL NEW RISER POLE SEE DRAWING E-300 FOR DETAIL. SEE NOTE 3. 4#350 KCMIL CU. IN (1) 4"C EXISTING ELECTRIC POLE #2545 WITH (1) POLE MOUNTED TRANSFORMER TO AND (1) 4"C SPARE 36" BELOW GROUND MINIMUM BE DISCONNECTED AND REMOVED BY NYSEG. CONTRACTOR TO TRANSFER ALL ACTIVE ELECTRIC SERVIVE TO THE NEW RISER POLE NEW METER PAN EXISTING (1) STORY BUILDING

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

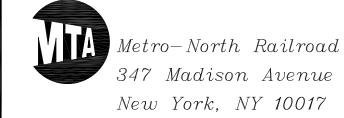


1 ELECTRICAL SITE PLAN E-100 SCALE: 1/32"=1'-0" 0' 32' 64' 1/32"=1'-0"

100% DESIGN SUBMISSION

								CONFORMED						
							2/10/20							
NO.	DATE		DRWN	CHKD	APPVD	NO.	DATE		DRWN	CHKD	APPVD			
	REVISIONS							REVISIONS						
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METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
STATION LEVEL
POWER MODIFICATION PLAN

S	CONTRACT NO. 10001	06733
	SCALE AS NOTED	DATE 11-20-20
	DRAWING NO.	

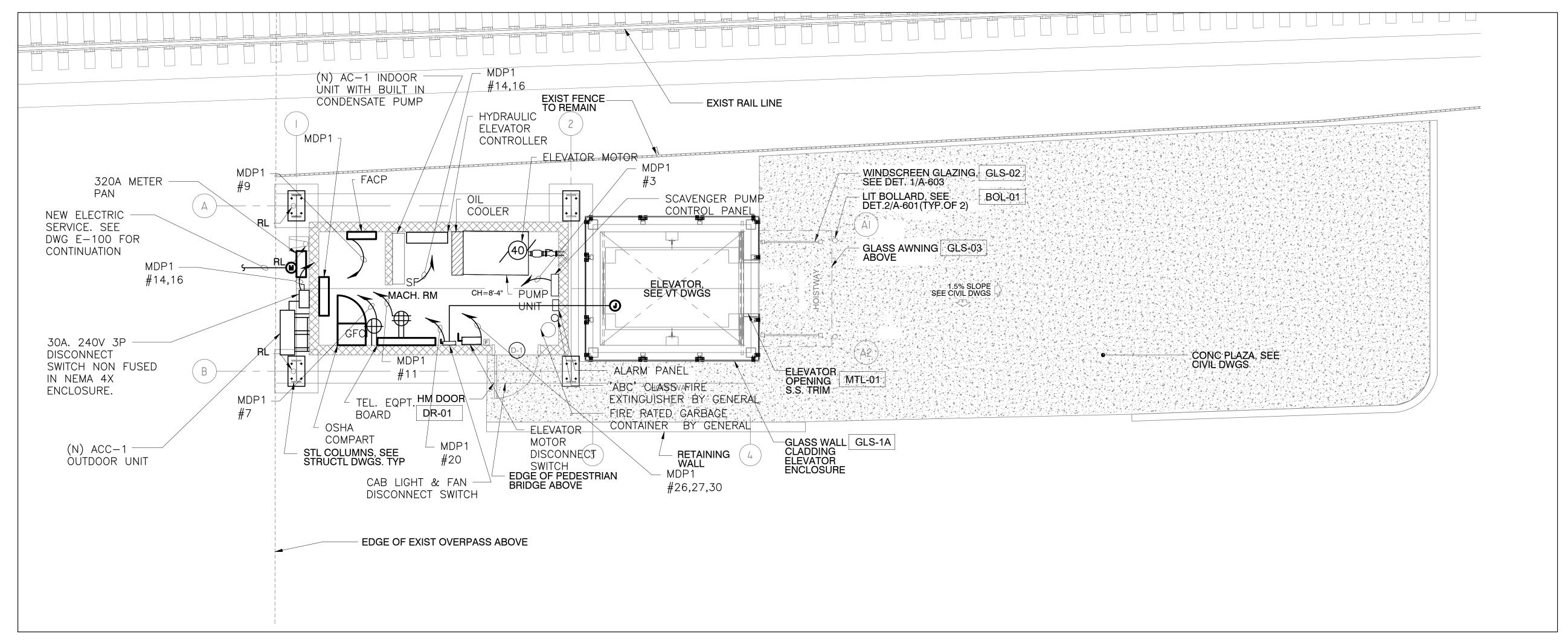
E-100SHEET 46 OF 76



E-200 SCALE: 1/4"=1'-0"

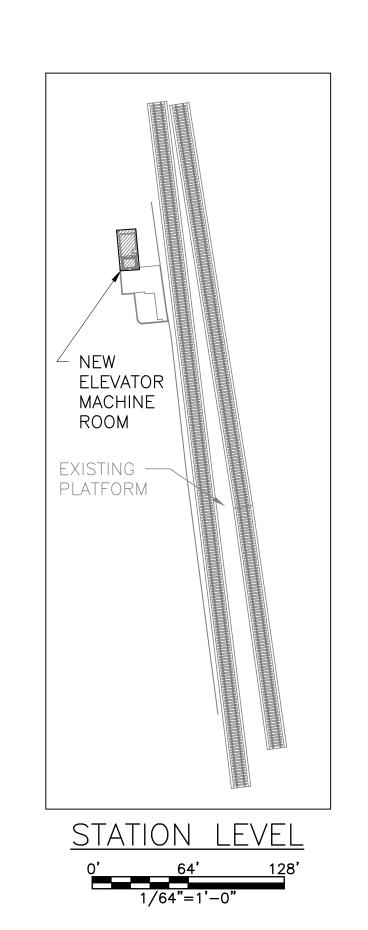
SP-1

E-200 SCALE: 1/4"=1'-0"

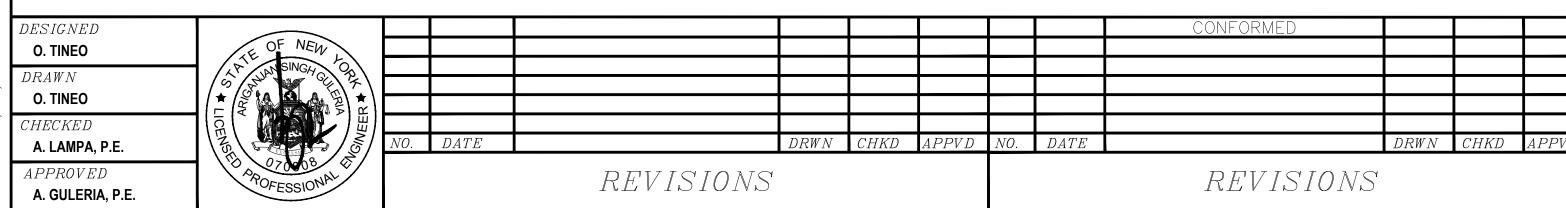


NOTES:

- 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.
- FOR MECHANICAL EQUIPMENT LOCATION SEE DRAWING M-201.
- 4. ELECTRICAL EQUIPMENT
 LOCATIONS AND CONDUITS ARE
 SHOWN DIAGRAMMATICALLY AND
 SHALL BE VERIFIED IN FIELD.



100% DESIGN SUBMISSION



1 ELECTRICAL STATION LEVEL NEW ELEVATOR MACHINE ROOM POWER PART PLAN

SCAVENGER PUMP

A.G Consulting Engineering, PC
131 West 33rd Street, Suite 12B
New York, NY 10001
Tel. (212) 268-0950
Fax (212) 268-7497

Metro-North Railroad 347 Madison Avenue New York, NY 10017 METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
STATION LEVEL NEW ELEVATOR
MACHINE ROOM POWER PART PLAN

CONTRACT NO.
1000106733

SCALE DATE
AS NOTED 11-20-2019

DRAWING NO.

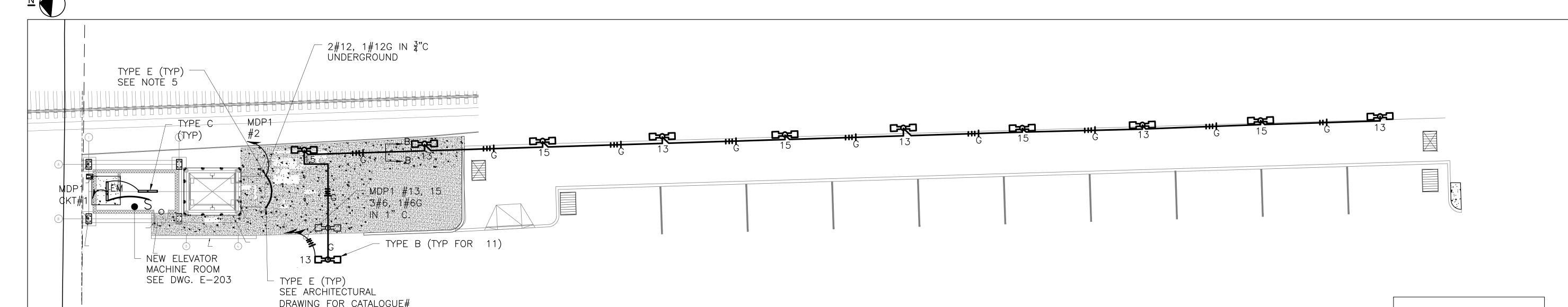
E-200
SHEET 47 OF 76

² ELECTRICAL ELEVATOR PIT POWER PART PLAN

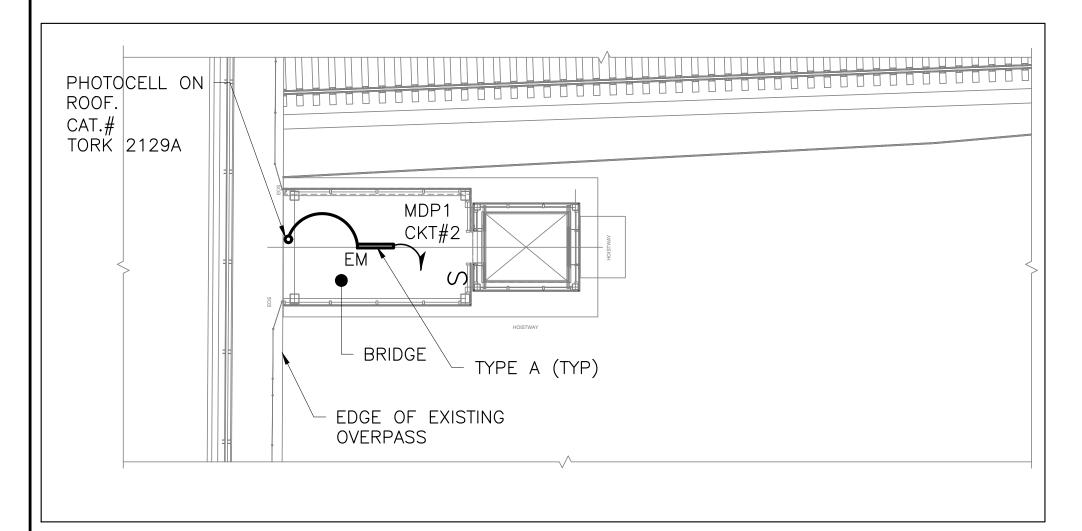
TO CENTRAL PANEL(EMR)

NOTES:

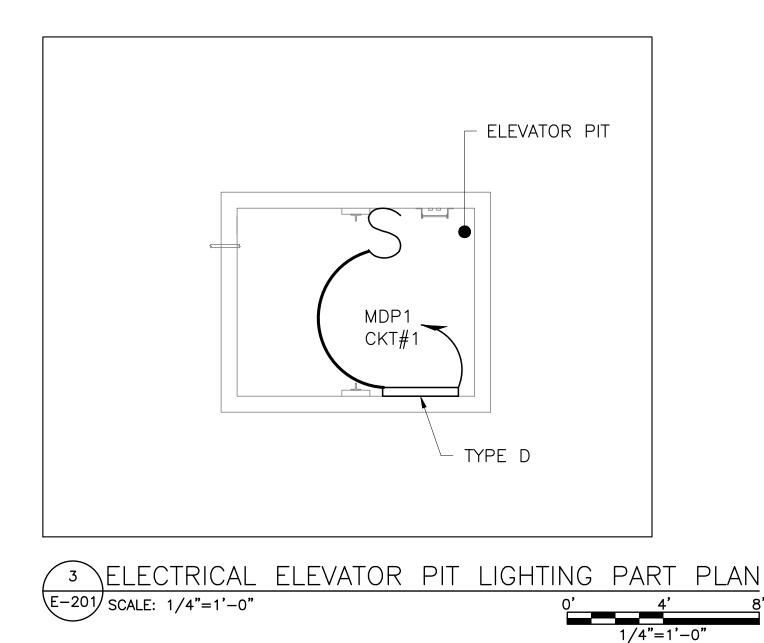
- 1. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES. SEE DRAWING E-001.
- 2. FOR LIGHTING FIXTURE SCHEDULE, SEE DRAWING E-001.
- 3. ELECTRICAL EQUIPMENT LOCATIONS AND CONDUITS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE VERIFIED IN FIELD.
- 4. FOR LOCATION OF MDP1, SEE DRAWING E-200.
- 5. BOLLARD LIGHTING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

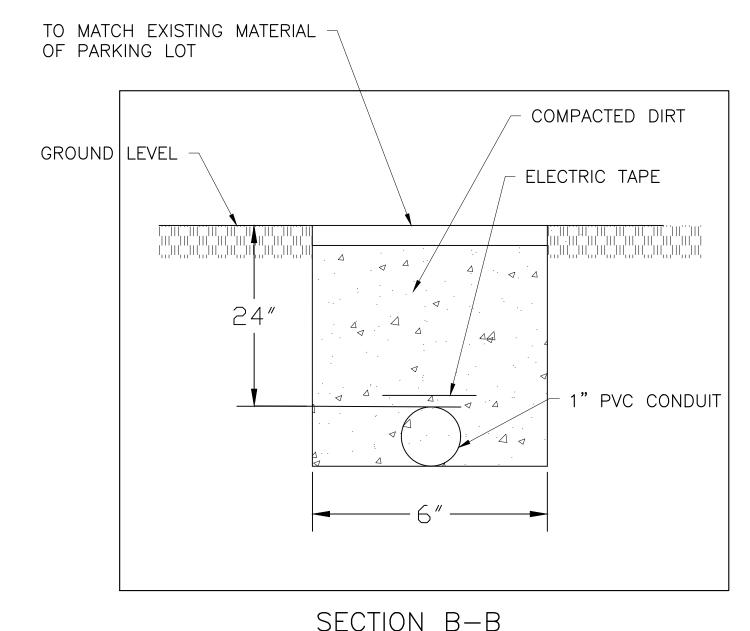


1 ELECTRICAL STATION LEVEL LIGHTING PART PLAN E-201 SCALE: 3/32"=1'-0"

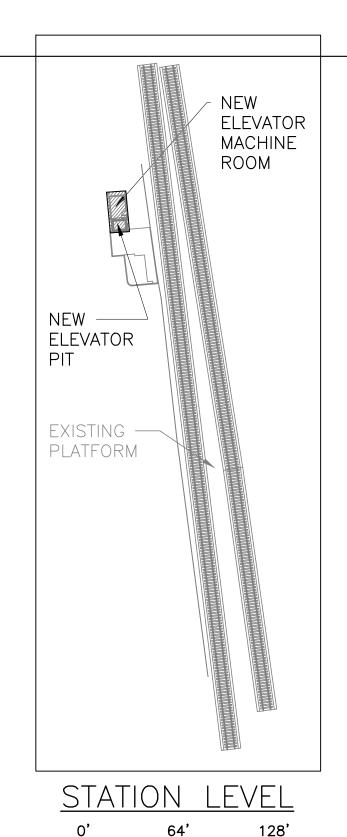








SECTION B-B NTS



100% DESIGN SUBMISSION

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5:4	DESIGNED													CONFORMED					
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hah	APPROVED		POFESSIONAL		REVISIONS							REVISIONS							
S	A. GULERIA, P.E.		2001																

AECOM A.G Consulting Engineering, PC 131 West 33rd Street, Suite 12B New York, NY 10001 Tel. (212) 268-0950 Fax (212) 268-7497



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

	CONTRACT NO. 10001	06733				
ΓS	SCALE AS NOTED	DATE				
	DRAWING NO.					
	E-2	201				

SHEET **47A** OF **76**

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. 4'*4'*6' TELEPHONE EQUIPMENT BOARD TO BE PAINTED IN BLACK NEW RISER POLE BY ENAMEL ELEVATOR MACHINE ROOM NYSEG LEAVE ENOUGH - 3#3/0 CU. 1#6 CU. GRD. 4#350 KCMIL ---SLACK FOR WIRING CU. 1#1/0 CU. 1#6 CU.GRD. CONNECTION GRD. IN 4"C IN 2" C. (1) 4" PVC 10' AFG FOR 200A. 240V. 3P TELEPHONE DISCONNECT SWITCH PROVIDE CROSS FUSED @200A. ARMS FOR THE NYSEG ELECTRIC 5-JAW TYPE IN NEMA NEW CONDUIT 1 ENCLOSURE 3#3/0 CU. METER. 1#6 CU.GRD. INSTALL (2) 2" — 4#350 KCMIL CU. IÑ 2" C. 5-JAW, CONDUIT FOR ELEVATOR CONTROLLER IN (1) 4" IMC 10' AFG MDPI LEVER EXISTING ELECTRIC BYPASSS SERVICE METER __ 4 # 350 KCMIL CU PROVIDE GROUND LEVEL PAN CAP IN (1) 4"C. INSTALLED ELEVATOR T6" AFG 36" BELOW GROUND MIN. MOTOR PROVIDE PROVIDE CAP CAP SPARE CONDUIT 6" AFG PROVIDE CAP SPARE 1#1/0 CU. GRD. EXISTING (2) 4" PVC SCHEDULE 80 FOR TELEPHONE & ELECTRIC SERVICE (ASSUME EXISTING COMMUNICATIONS. PROVIDE PULLWIRE ÈLECTRIC SERVICE TO BE 1 PART- ELECTRIC RISER 3#3/0 CU. MINIMUM) 1#1/0 CU. GRD. E-300 SCALE: NOT TO SCALE TO BLDG STEEL, WATERPIPE INSTALL HAND HOLE TO REINFORCEMENT BARS IN (1) 4" PVC SCHEDULE 80 INTERCEPT EXISTING (2) CONCRETE & SPARE FOR PRIMARY ELECTRIC SERVICE. THÉ 100% DESIGN SUBMISSION (2) DRIVEN GROUND RODS PROVIDE PULL WIRE HAND HOLE SHALL BE PER NYSEG SPECIFICATION CONFORMED DESIGNED AECOM **METRO-NORTH** 1000106733 O. TINEO STATION IMPROVEMENTS 11-20-2019 Metro-North Railroad NONE O. TINEO **PURDY'S STATION** A.G Consulting Engineering, PC 131 West 33rd Street, Suite 12B New York, NY 10001 Tel. (212) 268-0950 Fax (212) 268-7497 CHECKED347 Madison Avenue DRAWING NO. NO. DATE A. LAMPA, P.E. New York, NY 10017 E-300 RISER DIAGRAM REVISIONS REVISIONS SHEET **48** OF **76** A. GULERIA, P.E.

NEW PANEL MDP1

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

CKT	T DECODIDION		KER	V	OLTAMF	PS	CKT		BUS		СКТ	V	OLTAMF	PS	BREA	KER	DECODIDION	СКТ
CKI	DESCRIPTION	POLE	AMP	Α	В	С	CKI		603		CKI	Α	В	С	AMP	POLE	DESCRIPTION	CKI
1	EMR AND ELEV. P.T LTG	1	20	300			1	<u> </u>		+	2	300			20	1	BRIDGE AND BOLLARD LIGHTING.	2
3	SCAVANGER PUMP	1	20		1200		3	\Box	 	$+ \bigcirc$	4				20	1	SPARE	4
5	SUMP PUMP SP-1	1	20			1200	5	$\vdash \cap$	 	$+$ \bigcirc	6				20	1	SPARE	6
7	EMR RECEPT.	1	20	180			7	$\vdash \cap$	 	$+ \bigcirc$	- 8	500			20	1	ELV. PIT GFCI RECEPTACLE	8
9	FACP	1	20	500			9	$\vdash \cap$		$+ \bigcirc$	10		62		20	2	A C 1	10
11	TEL. EQPT. BOARD	1	20			500	11	$\vdash \cap$	 	$+$ \bigcirc	12			62	20	2	AC-1	12
13	POLE MTD LIGHT.	1	20	908			13	$\vdash \cap$	 	$+$ \bigcirc	14	2745			25	2	ACC-1	14
15	POLE MTD LIGHT.	1	20		908		15	$\vdash \cap$	 	$+$ \bigcirc	16		2745		25	2	ACC - 1	16
17	SPARE	1	20				17	$\vdash \cap$	 	$+$ \bigcirc	18			1000	20	1	HEAT.TRACING(NOTE 5&6)	18
19	CCTV (NOTE 7)	1	20	500			19	$\vdash \cap$	 	$+$ \bigcirc	20	1200			20	1	ELEV. CAB. LTS. & FAN	20
21	SPARE	1	20				21	$\perp \cap$	 	$+\bigcirc$	22				20	1	SPARE	22
23	SPACE						23	$\perp \cap$	 	$+\bigcirc$	24				20	1	SPARE	24
25	SPACE						25	$\perp \cap$	 	$+\bigcirc$	26	14400						26
27	SPACE						27			$+ \cap$	28		14400		200	3	ELEVATOR MOTOR	28
29	SPACE										30			14400			IVIOTOTO	30
				2388	2108	1700						19145	17207	15462				
ı				L	1	1	_					L	l	L				

NEW LOAD: PHASE A: 21533VA

TOTAL LOAD:

PHASE B: <u>19315VA</u> PHASE C: <u>17662VA</u>

(N) TOTAL: <u>58010VA</u>

AMPS: <u>179.4A</u>

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.

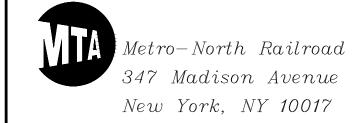
NOTES:

- 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

CONFORMED DESIGNED O. TINEO O. TINEO CHECKEDNO. DATE A. LAMPA, P.E. REVISIONS REVISIONS A. GULERIA, P.E.



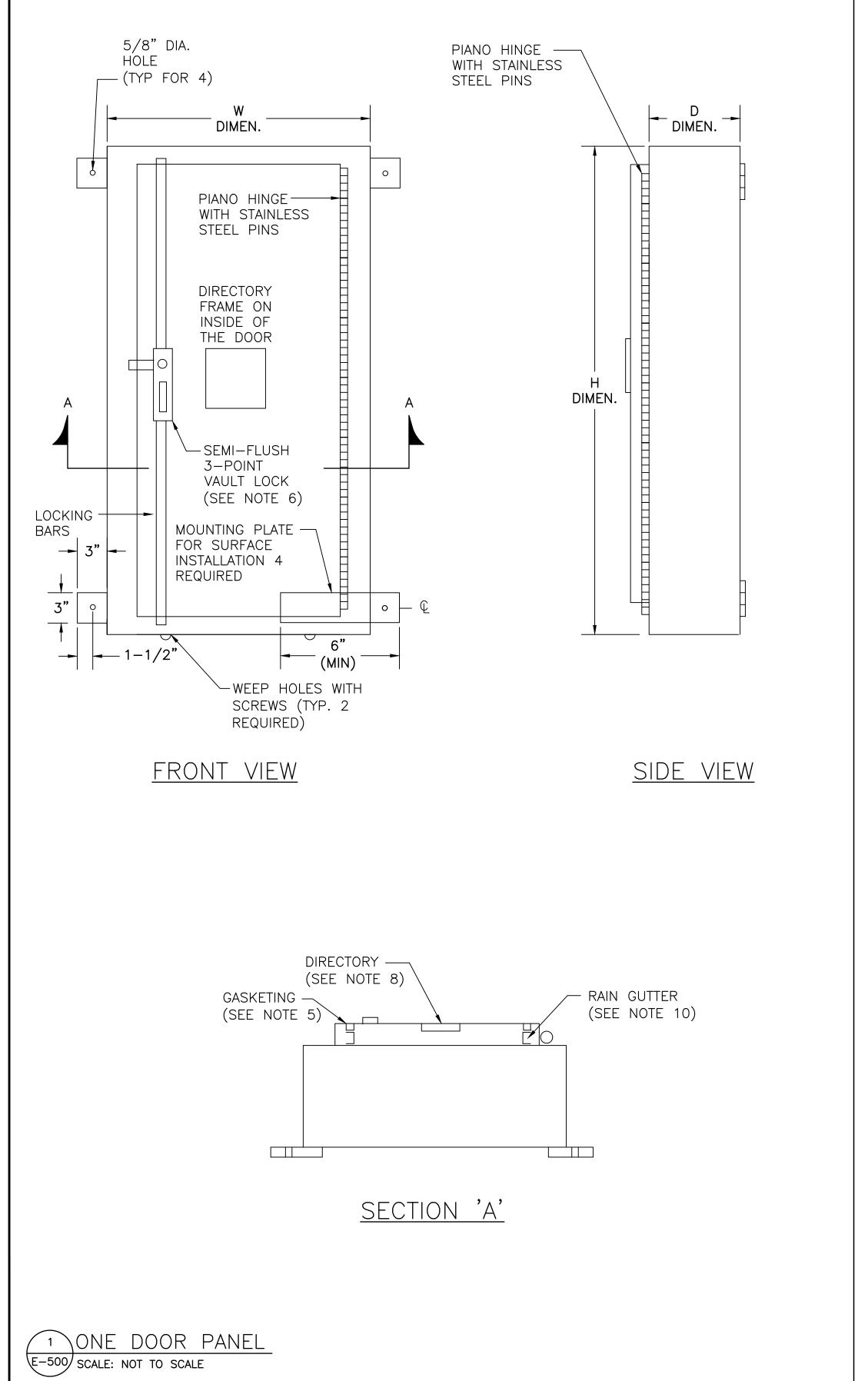


METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION** PANEL SCHEDULES

1000106733

DRAWING NO. E-400

SHEET **49** OF **76**



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.

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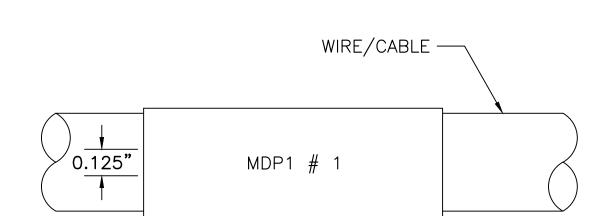
A.G Consulting Engineering, PC
131 West 33rd Street, Suite 12B
New York, NY 10001
Tel. (212) 268-0950
Fax (212) 268-7497



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

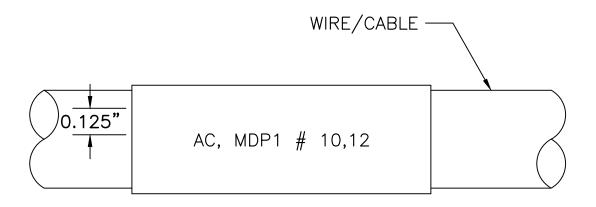
| CONTRACT NO. | 1000106733 | | SCALE | DATE | | NONE | 11-20-2019 | | DRAWING NO. |

E-500
SHEET 50 OF 76



- 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

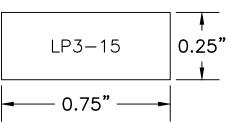
CABLES IN PULL BOX/JUNCTION BOX E-501 SCALE: NOT TO SCALE



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

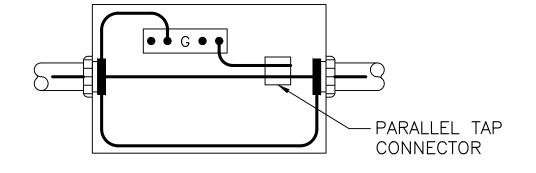
2 CABLES IN ELECTRICAL ENCLOSURE (E-501) SCALE: NOT TO SCALE



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.

NAMEPLATE FOR FEEDER BREAKER/SWITCH (E-501) SCALE: NOT TO SCALE



/_JUNCTION BOX (SHEET METAL ONLY) E-501 SCALE: NOT TO SCALE

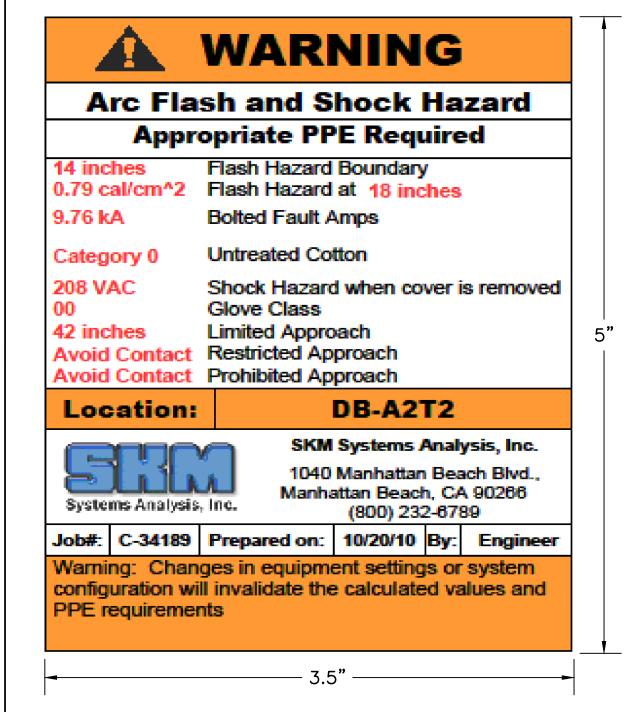
DISTRIBUTION BOARD MDP1 250A, 3PH, 4W, SN, GND 1.625" 1 SET 4#500KCMIL, 1C-(4"C)

NOTES:

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.





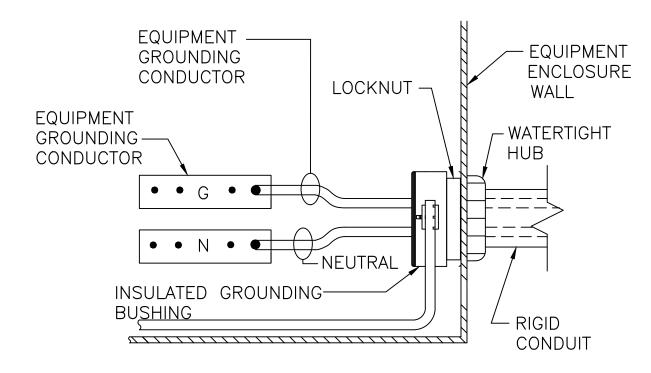
ARC FLASH PROTECTION LABEL

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.

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
44	SOLDERLESS COPPER LUG TWO HOLE TYPE
NTS	NOT TO SCALE



7 ENCLOSURE BONDING E-501 SCALE: NOT TO SCALE

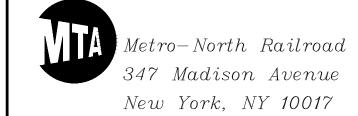
100% DESIGN SUBMISSION

CONFORMED DESIGNED O. TINEO O. TINEO CHECKEDNO. DATEA. LAMPA, P.E. APPROVEDREVISIONS REVISIONS A. GULERIA, P.E.



Tel. (212) 268-0950

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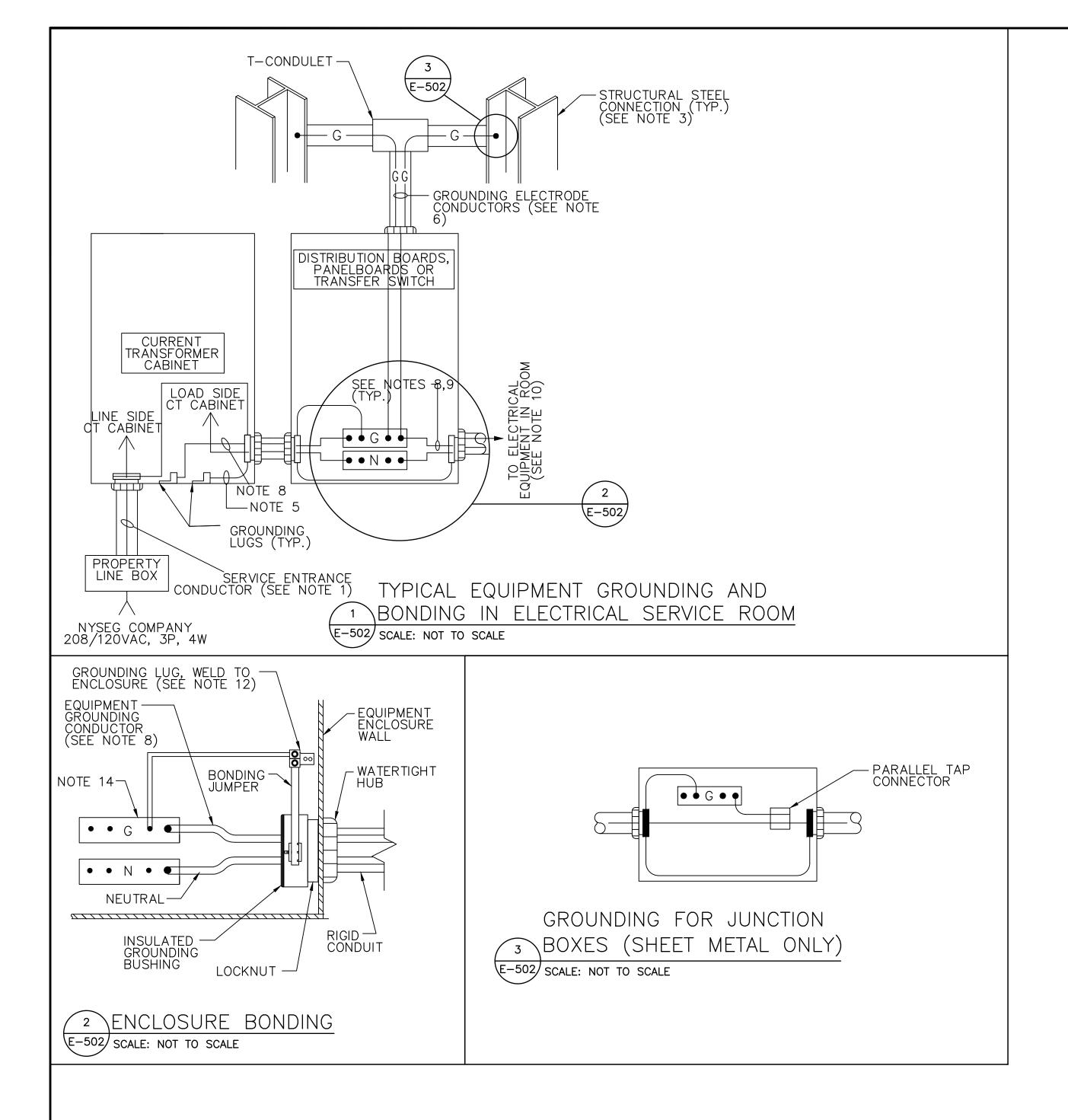


METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION DETAILS** SHEET 2 OF 3

1000106733 11-20-2019 NONE DRAWING NO. E-501 SHEET **51** OF **76**

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E-501 SCALE: NOT TO SCALE



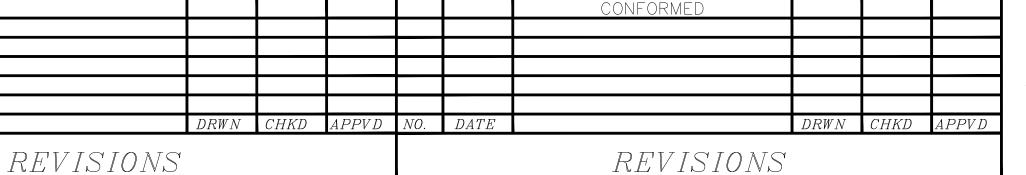
GENERAL NOTES:

- 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
- 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
- 15. TROUGH GROUNDING SHALL BE AS RECOMMENDED BY THE MANUFACTURER. A SEPARATE EGC SHALL
- 16. PROVIDE ONE STRUCTURAL STEEL CONNECTION FOR TRANSFORMER GROUNDING. SEE STANDARD DRAWING E-2022.

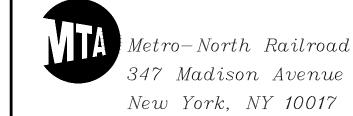
LEGEND:

	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







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

SCALE DATE
NONE 11-20-2019

DRAWING NO.

E-502
SHEET 52 OF 76

NO. DATE

DESIGNED

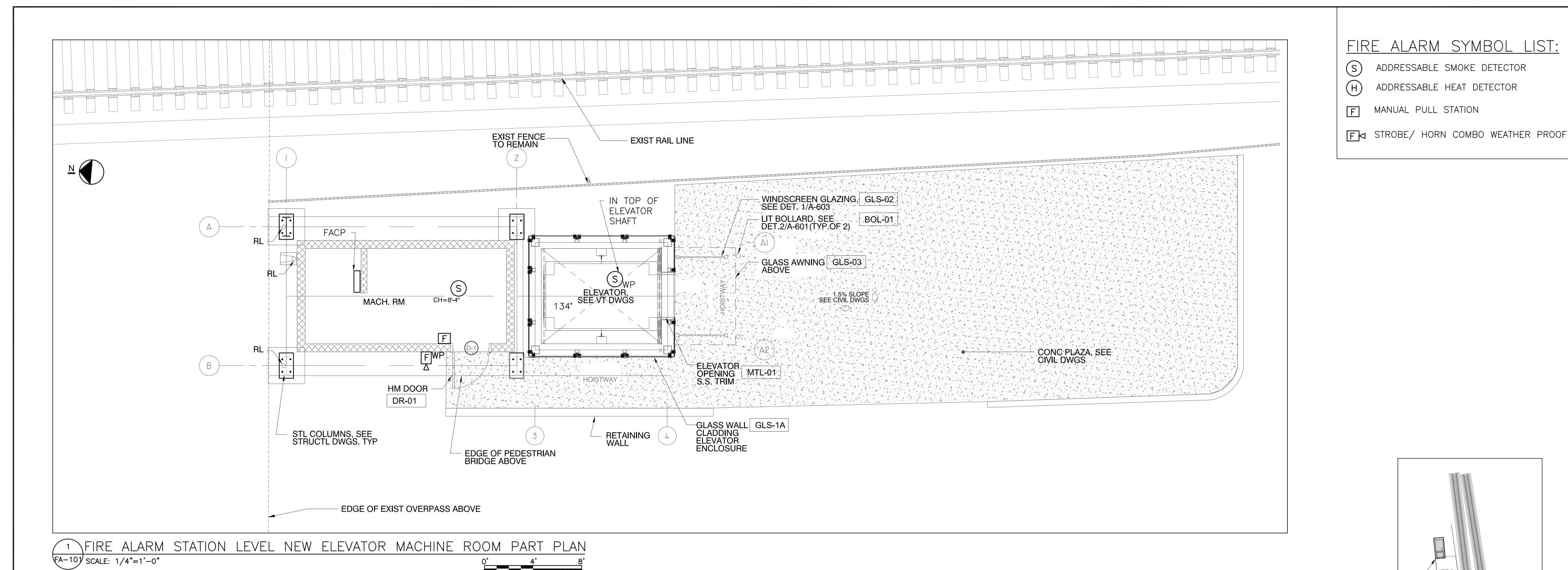
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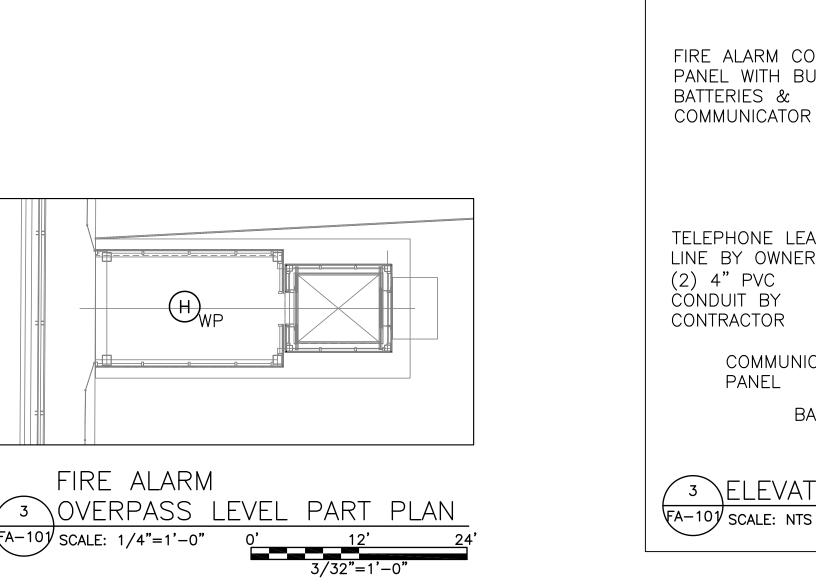
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A. LAMPA, P.E.

A. GULERIA, P.E.

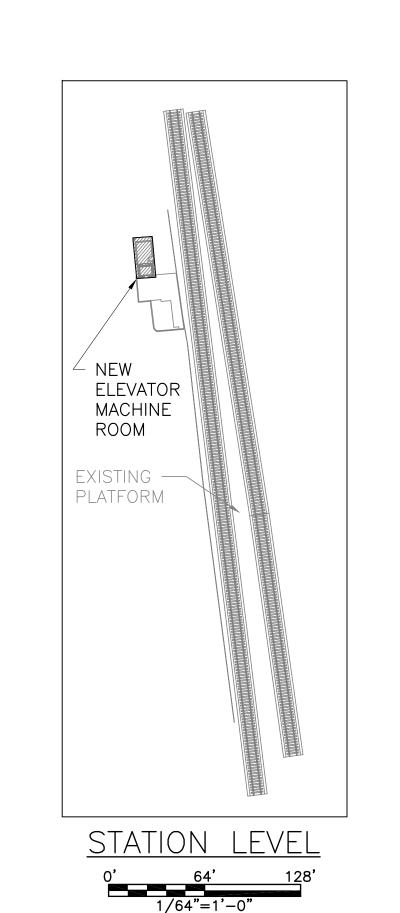




TOP OF ELEVATOR SHAFT **SEQUENCE OF OPERATION:** FIRE ALARM CONTROL PANEL WITH BUILT-IN BATTERIES & COMMUNICATOR PANEL 120V TELEPHONE LEASE - EMR LINE BY OWNER (2) 4" PVC CONDUIT BY CONTRACTOR COMMUNICATOR PANEL ELEV. PIT BATTERIES 3 ELEVATOR PART RISER DIAGRAM

ELEVATOR SHUT DOWN

- 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.



ADDRESSABLE SMOKE DETECTOR

ADDRESSABLE HEAT DETECTOR

MANUAL PULL STATION

100% DESIGN SUBMISSION

CONFORMED DESIGNED O. TINEO O. TINEO CHECKEDNO. DATE A. LAMPA, P.E. REVISIONS REVISIONS APPROVEDA. GULERIA, P.E.

FIRE ALARM

FA-101 SCALE: 1/4"=1'-0"





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

1000106733 **AS NOTED** 11-20-2019

DRAWING NO. **FA-100** SHEET **53** OF **76**

FIRE ALARM

FA-101 SCALE: 1/4"=1'-0"

² ELEVATOR PIT PART PLAN

NFPA OPERATIONS MATRIX											
LOW RIS	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										
							TO SUPERVISING STATION				
							TAT				
							8 9			ELEVATORS TO GROUND FLOOR, OPEN CAB DOOR	
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		ACTUATE COMMON ALARM SIGNAL	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTIVATE VISUAL/AUDIO DEVICES	DISPLAY/PRINT CHANGE OF	TRANSMIT AUTOMATIC	TRANSMIT MANUAL SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	RECALL	SHUT DOWN ELEVATOR POWER (SHUNT TRIP)
SYSTEM		Α	В	С	D	E	F	G	Н	1	J
1	MANUAL FIRE ALARM BOXES	X	Х		X	X		Х			
2	AREA SMOKE OR HEAT DETECTORS	X	Х		Х	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	Х	Х	-	Х	X	X		L .	Х	X
5 6	FIRE ALARM AC FAILURE FIRE ALARM SYSTEM LOW BATTERY	1		X	+	X			X		
7	OPEN CIRCUIT			X	+	X	-		X		
8	GROUND FAULT			X	+	X			X		
9	NOTIFICATION APPLIANCE CIRCUIT SHORT	1		X	+	X			X		
10	DRILL SWITCH			1	X				1		
8/5	Environment of the particular	Α	В	С	D	E	F	G	Н	I	J

100% DESIGN SUBMISSION

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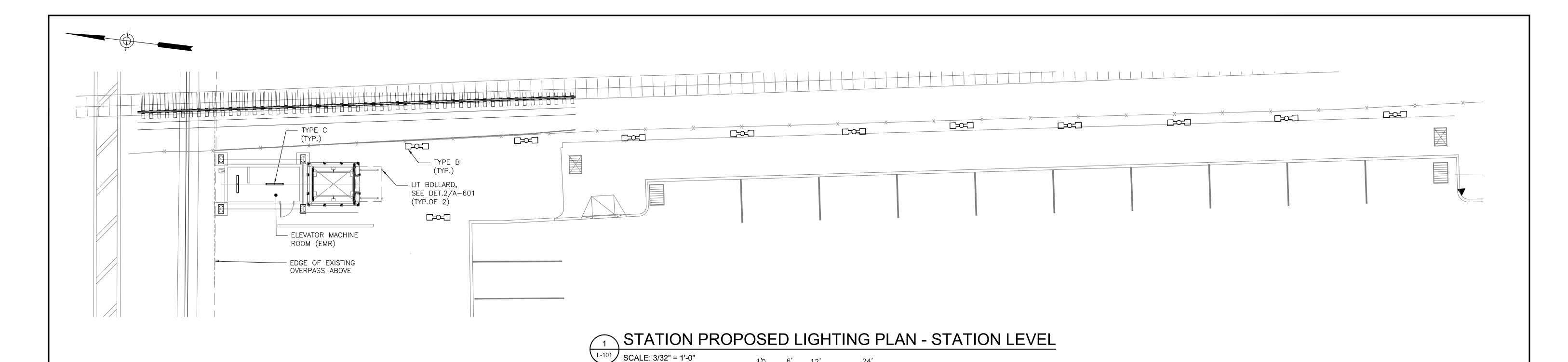
Metro-North Railroad 347 Madison Avenue New York, NY 10017

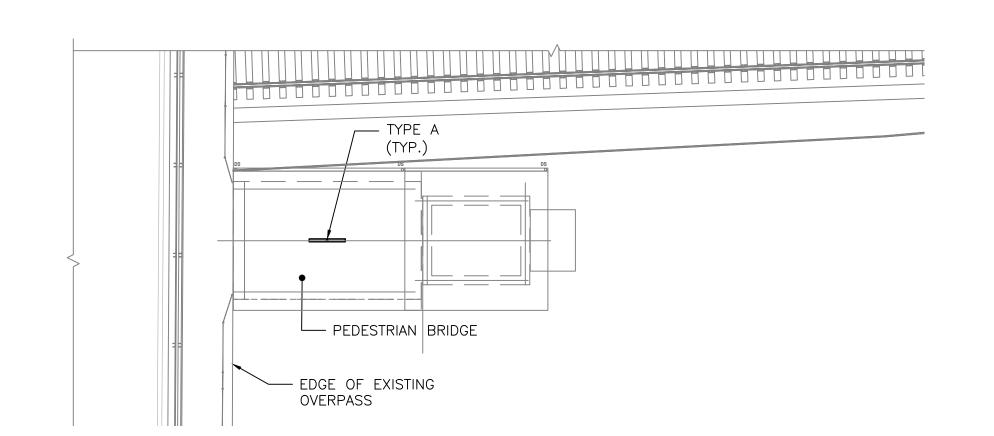
METRO-NORTH STATION IMPROVEMENTS PURDY'S STATION FIRE ALARM PLAN MATRIX SYSTEM

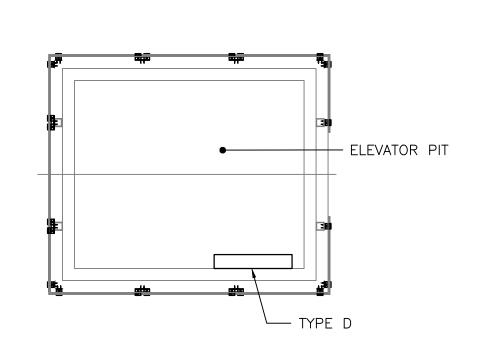
NTRACT NO.	
10001	06733
SCALE	DATE

AS NOTED 11-20-2019 DRAWING NO.

FA-101 SHEET **54** OF **76**







STATION PROPOSED LIGHTING PLAN - BRIDGE TO OVERPASS L-101 SCALE: 3/32" = 1'-0"

STATION PROPOSED LIGHTING PLAN - ELEVATOR PIT

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	(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								

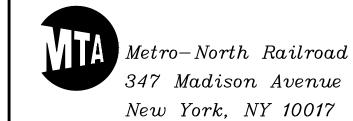
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METRO-NORTH
STATION IMPROVEMENT
PURDY STATION

AS NOTED 11-20-2019 DRAWING NO. L-101 PROPOSED LIGHTING PLAN SHEET 55 OF 76

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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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:

- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- PROVIDE ONE YEAR GUARANTEE AGAINST DEFECTIVE WORKMANSHIP AND MATERIAL.
- NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC., SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- REMOVAL OF EXISTING EQUIPMENT SHALL BE COORDINATED WITH REMOVAL OR RELOCATION OF EXISTING CEILINGS AND PARTITIONS.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL FROM THE PREMISES OF ALL DEBRIS RESULTING FROM REMOVAL OF PLUMBING WORK.
- 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.
- 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.

SYMBOLS:

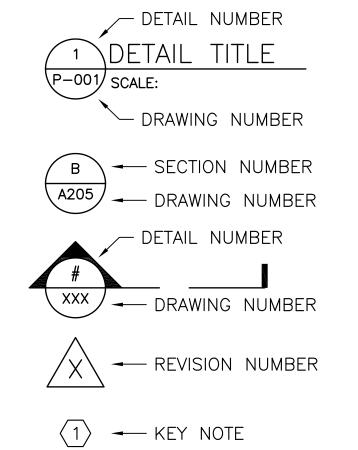
SYMBOL	DESCRIPTION
-	SANITARY PIPING
	VENT PIPING
	EXISTING PIPING TO REMAIN
****	EXISTING PIPING TO BE REMOVED
-////	EXISTING PIPING TO BE ABANDONED
0	PIPING UP - PIERCES FLOOR
C	PIPING DROP - PIPING DROPS WITHIN STORY HEIGHT
	PIPING RISE - PIPING RISES WITHIN STORY HEIGHT
	BOTTOM OF PIPE TAKE-OFF
<u> </u>	SHUT-OFF VALVE
1	CLEANOUT
<u></u>	CLEANOUT DECK PLATE
	FLOOR DRAIN
OC	TRAP
	CONNECT TO EXISTING
_	HOSE BIBB
Ψ	VACUUM BREAKER

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

ABBREVIATIONS:

AD AFF	ACCESS DOOR ABOVE FINISHED FLOOR	V W	VENT PIPING WASTE PIPING	REF
APPROX	APPROXIMATE	WCO	WALL CLEANOUT	1\L1
ARCH	ARCHITECTURAL	W/	WITH	
BLDG	BUILDING			
COPD	CLEANOUT DECK PLATE	VPO,SPO,	CWPO VENT/SANITARY/	
CF	CUBIC FOOT		COLD WATER/	(P-0
CLG	CEILING		PLUGGED OUTLET	\ \(\(\frac{1}{2} \)
CW	COLD WATER			
DWG	DRAWING			
DN	DOWN			E
(E)	EXISTING TO REMAIN			A20
ELEV	ELEVATION			
EM	EMERGENCY			
ER	EXISTING TO BE REMOVED			
EQUIP	EQUIPMENT			#
FBO	FURNISHED BY OTHERS			\ \xx
FUD	FUNNEL DRAIN			_
GEN	GENERAL			/>
GPM	GALLONS PER HOUR			
HW	HOT WATER			
MTD	MOUNTED			$ $ \langle 1
(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			

FERENCE SYMBOLS:



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DESIGNED J. PREGO J. PREGO CHECKEDJ.CRESPO APPROVEDAR. GULERIA, P.E.

CONFORMED NO. DATE CHKD APPVDREVISIONS REVISIONS



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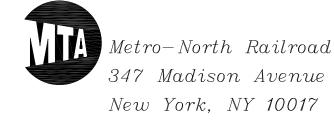
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METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION** LEGENDS, NOTES AND SYMBOLS

1000106733 11-20-2019 NONE

DRAWING NO. P-001 SHEET **56** OF **76**

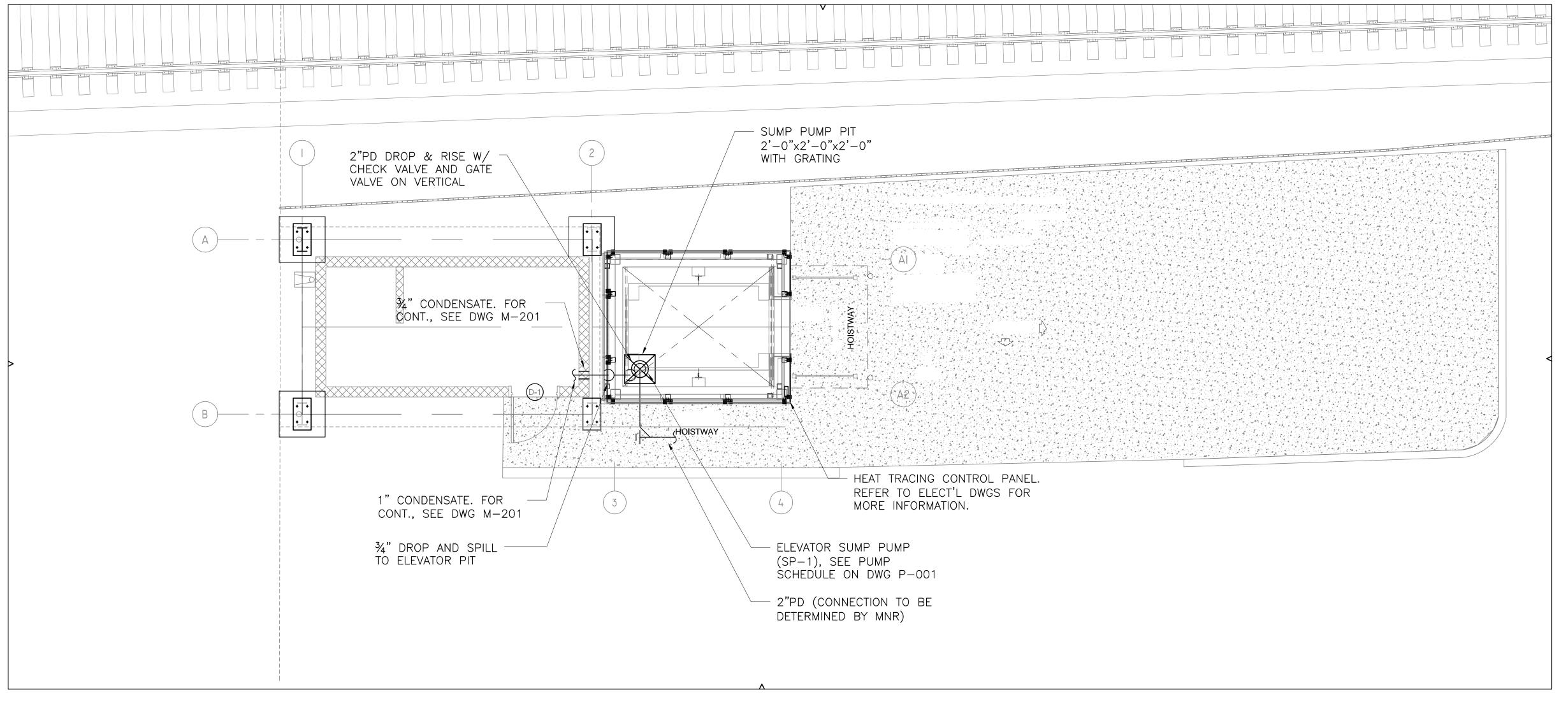
NOTES:

 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.
- INSULATE ALL HEAT TRACED PUMP DISCHARGE LINES.

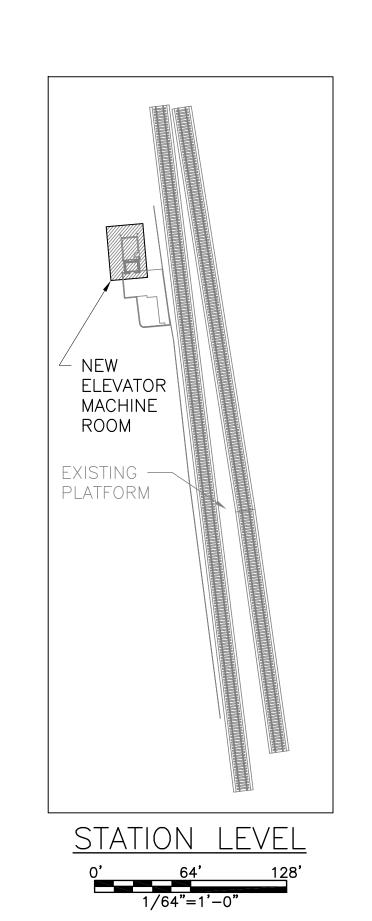




P-201 SCALE: 1/4"=1'-0"

1 PLUMBING STATION LEVEL NEW ELEVATOR MACHINE ROOM PART PLAN

0' 4' 8'



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J. PREGO

CHECKED

J. CRESPO

APPROVED

AR. GULERIA, P.E.

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DRWN CHKD APPVD NO. DATE

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

CONTRACT NO.	
10001	106733
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SHEET **57** OF **76**

SCALE DATE 11-20-2019

DRAWING NO.

P-201

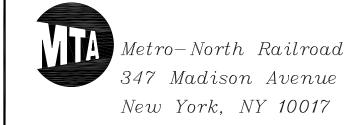
	PUMP SCHEDULE															
PUMP NUMBER	LOCATION	TYPE	SERVICE	MANUFACTURER	IUFACTURER MODEL FLOW MAX HD. RPM MOTOR DATA			MODEL	MODEL	l <u> </u>	MAX HI)		MOTOR DATA			REMARKS
NUMBER	LOCATION	ITPE	SERVICE MANUFACTURER	MANOFACTORER	MODEL	(GPM)	(FT.)	KPW	H.P.	PHASE	CYCLE	VOLTS	KEMAKKS			
SP-1	PASSENGER ELEVATOR	SIMPLEX SUBMERSIBLE PUMP	ELEVATOR PIT	STANCOR	SE50	74	37	1750	1/2	1	60	115	SIMPLEX OIL SENSING ELEVATOR SUMP PUMP. SINGLE DIRECT PLUG—IN POWER			

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DESIGNED J. PREGO J. PREGO CHECKEDJ.CRESPO APPROVEDAR. GULERIA, P.E.

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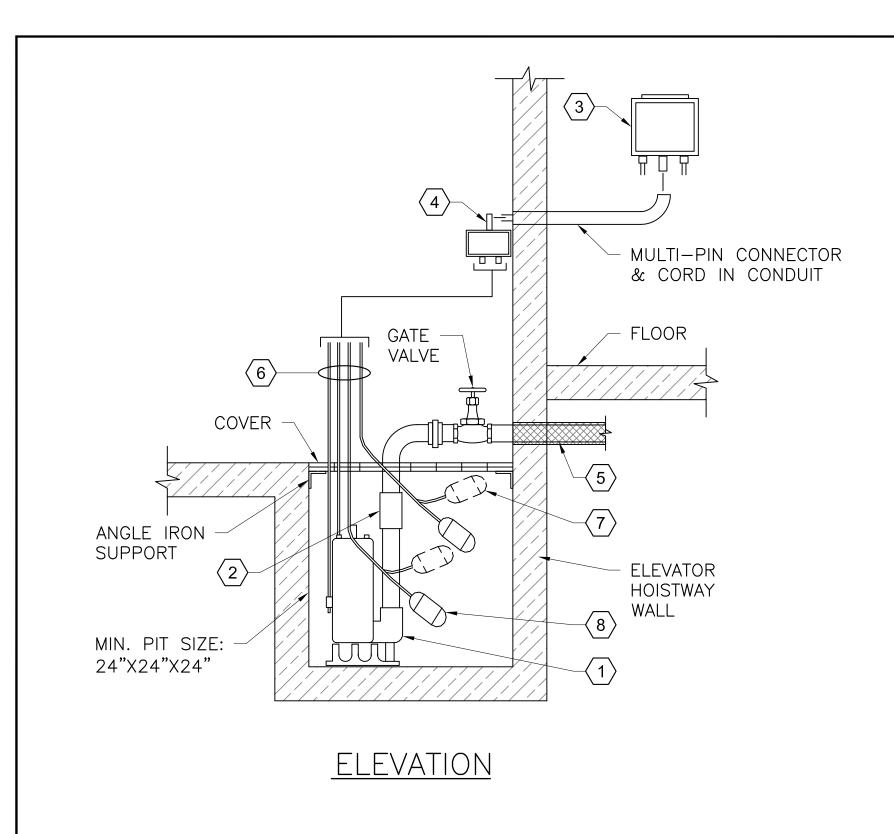




METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION SCHEDULES

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DRAWING NO. P-501 SHEET **58** OF **76**



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.
- $\langle 8 \rangle$ 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.

1 ELEVATOR SUMP PUMP DETAIL P-601 SCALE: NOT TO SCALE

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DRAWN
J. PREGO

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J. CRESPO

APPROVED
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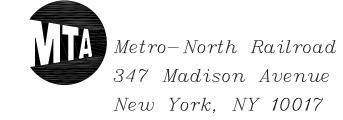
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METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
DETAILS

SCALE DATE
NONE 11-20-2019

P-601
SHEET 59 OF 76

- 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
- 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 2. 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.
- ELEVATOR, MACHINE ROOM HVAC: ELEVATOR MACHINE ROOM ENVIRONMENT SHALL BE MAINTAINED BETWEEN 50°F 104°F 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.

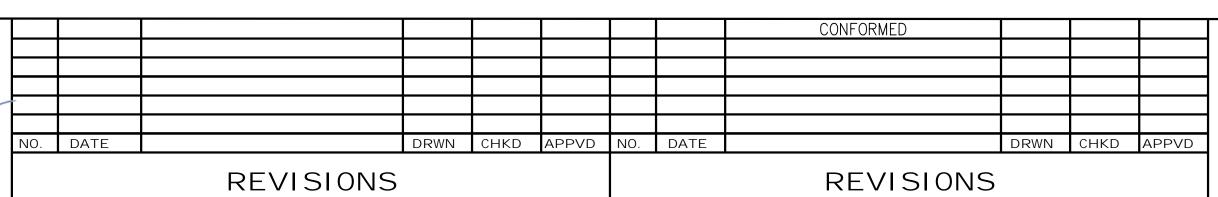
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DESIGNED
P. GOMULKA
DRAWN
F. HUANG
CHECKED
E. ROSS

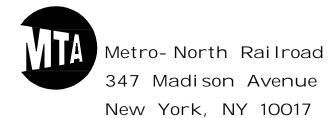
APPROVED

S. YAGHOBI









METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION

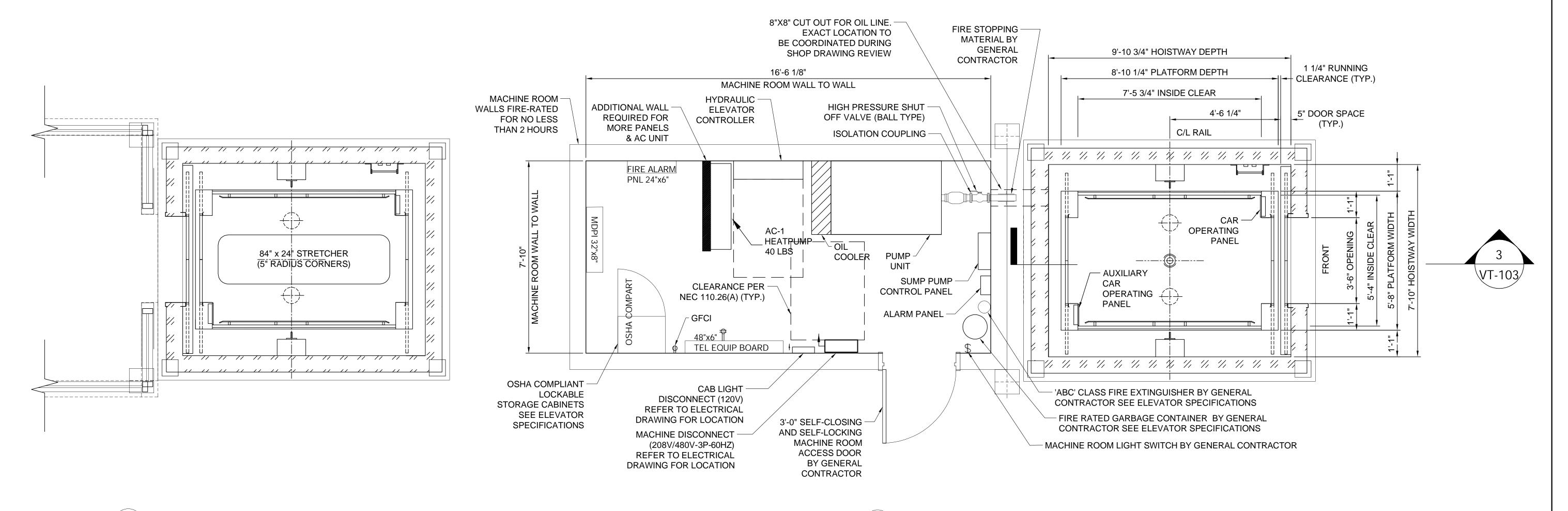
GENERAL NOTES

SCALE DATE
AS NOTED 11-20-2019
DRAWING NO.

NOTES VT-101
SHEET 60 OF 76

	ELEVATOR SCHEDULE														
	ELEVATOR								DIATEODIA	DIATEODIA	CAD INCIDE				
ELEVATOR NO.	CATEGORY	TYPE	CAPACITY (LBS.)	SPEED (FPM)	PIT DEPTH	CLEAR OVERHEAD	HOISTWAY WIDTH	HOISTWAY DEPTH	PLATFORM WIDTH	PLATFORM DEPTH	CAR INSIDE WIDTH	CAR INSIDE DEPTH			
ELEVATOR 1	PASSENGER	IN-GROUND HYDRAULIC	4000	125	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 (CON	ITINUED)						
ELEVATOR NO.	DOOR			- CAR TYPE	TRAVEL	NUMBER OF	NUMBER OF	LEVELS SERVED	PIT DRAINAGE	POWER	STARTING CURRENT (V.I.F.)	RUNNING CURRENT (V.I.F.)	HEAT EMISSION
	DOOR WIDTH	DOOR HEIGHT	TYPE	CARTIFE	INAVEL	STOPS	OPENINGS	LEVELS SERVED	TYPE	(HP)	208V / 480V 3P, 60Hz (A)	208V / 480V 3P, 60HZ (A)	(BTU)
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



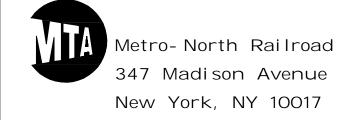
2 HATCH PLAN @ PEDESTRIAN BRIDGE LEVEL VT-102 SCALE: 1/2" = 1'-0"

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

100% DESIGN SUBMISSION

CONFORMED DESIGNED P. GOMULKA DRAWN Mon F. HUANG CHECKED NO. DATE DRWN CHKD APPVD NO. DATE DRWN CHKD APPVD E. ROSS **APPROVED** REVISIONS REVISIONS S. YAGHOBI

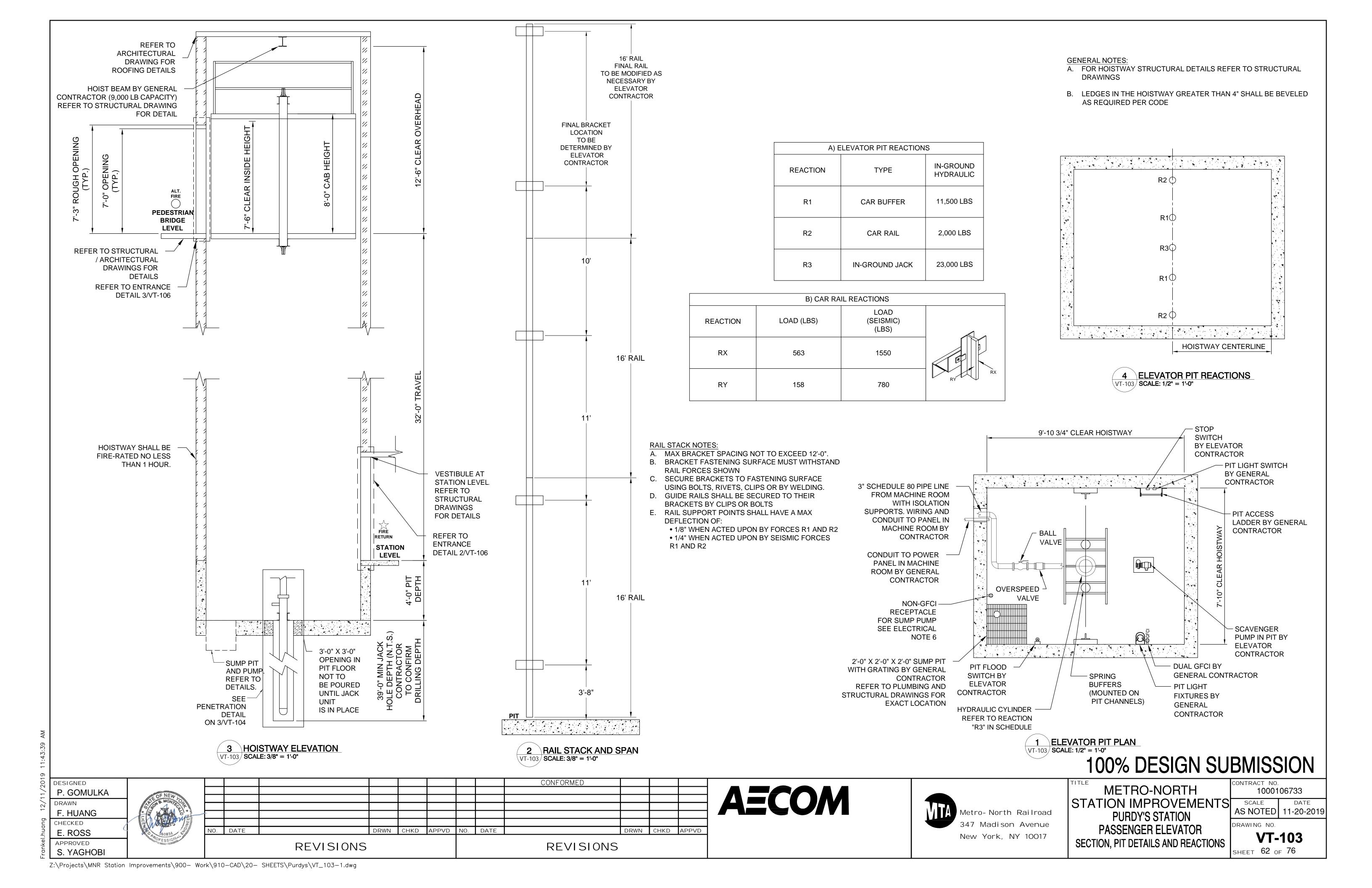


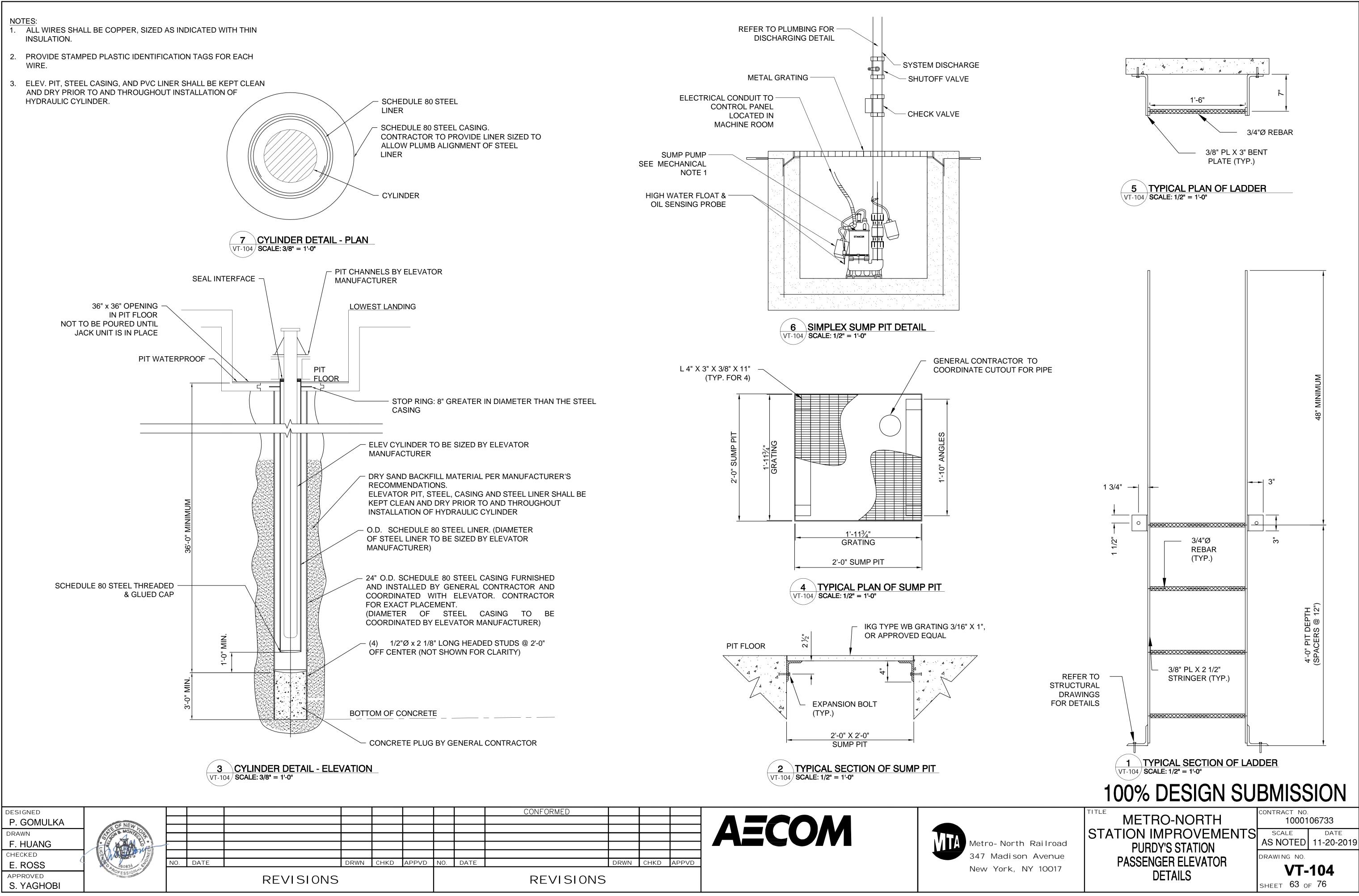


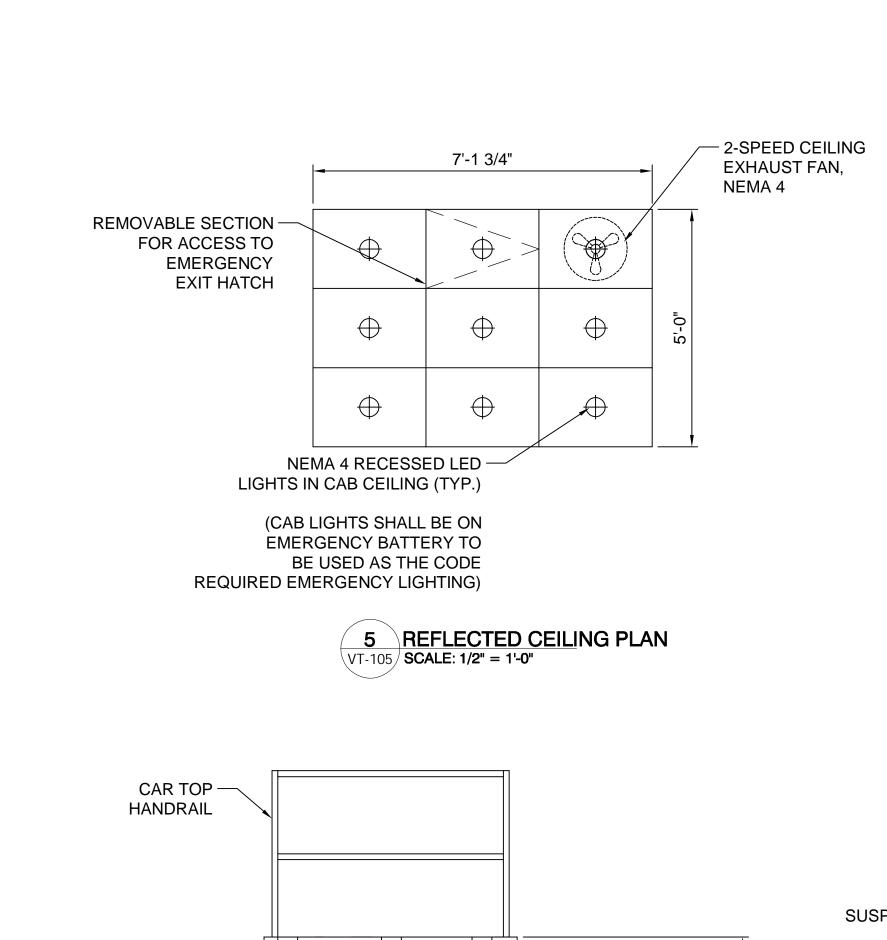
METRO-NORTH STATION IMPROVEMENTS AS NOTED 11-20-2019 **PURDY'S STATION** DRAWING NO. PLAN, MACHINE ROOM AND SCHEDULE

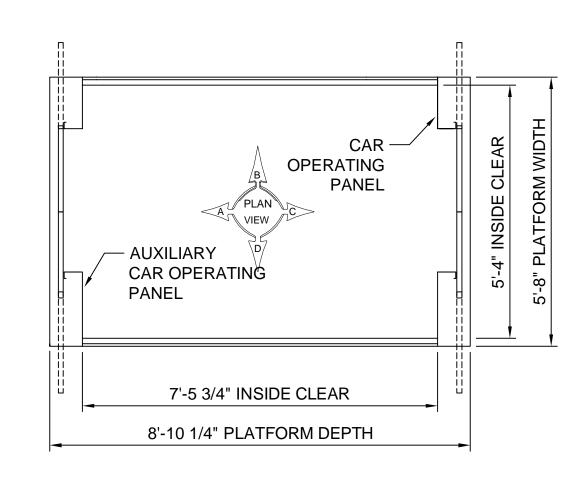
VT-102 SHEET 61 OF 76

1000106733

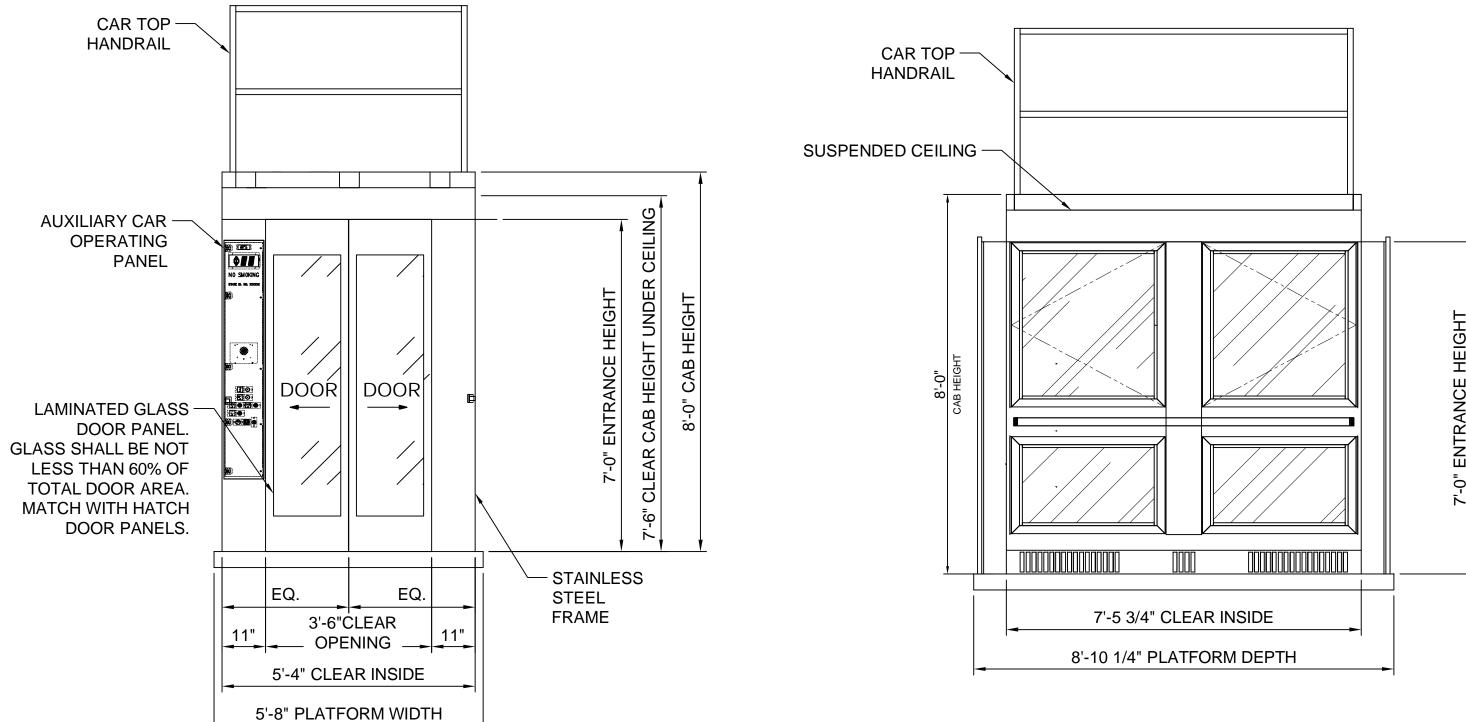


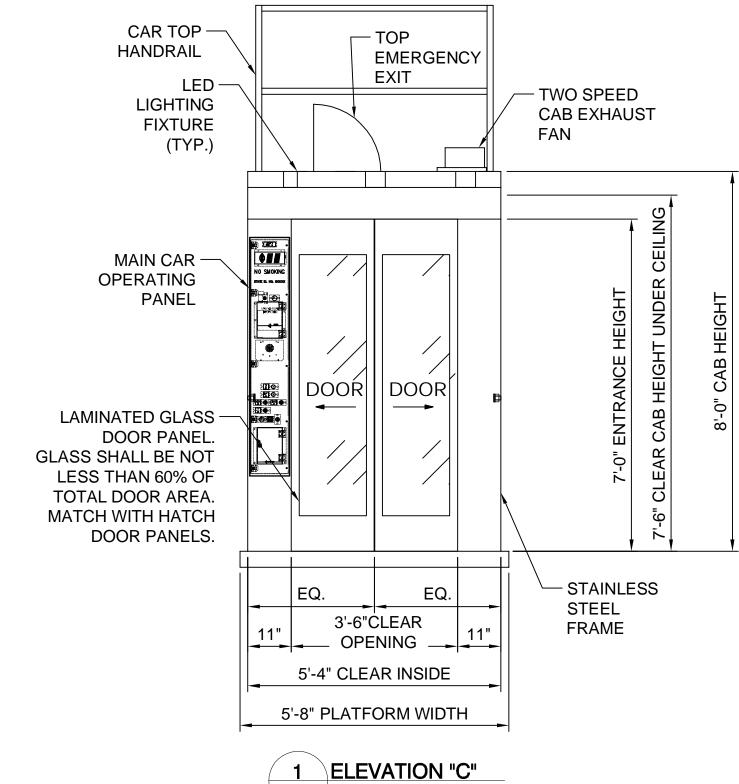












2 ELEVATION "B" ("D" SIMILAR) VT-105 SCALE: 1/2" = 1'-0" 1 ELEVATION "C" VT-105 SCALE: 1/2" = 1'-0"

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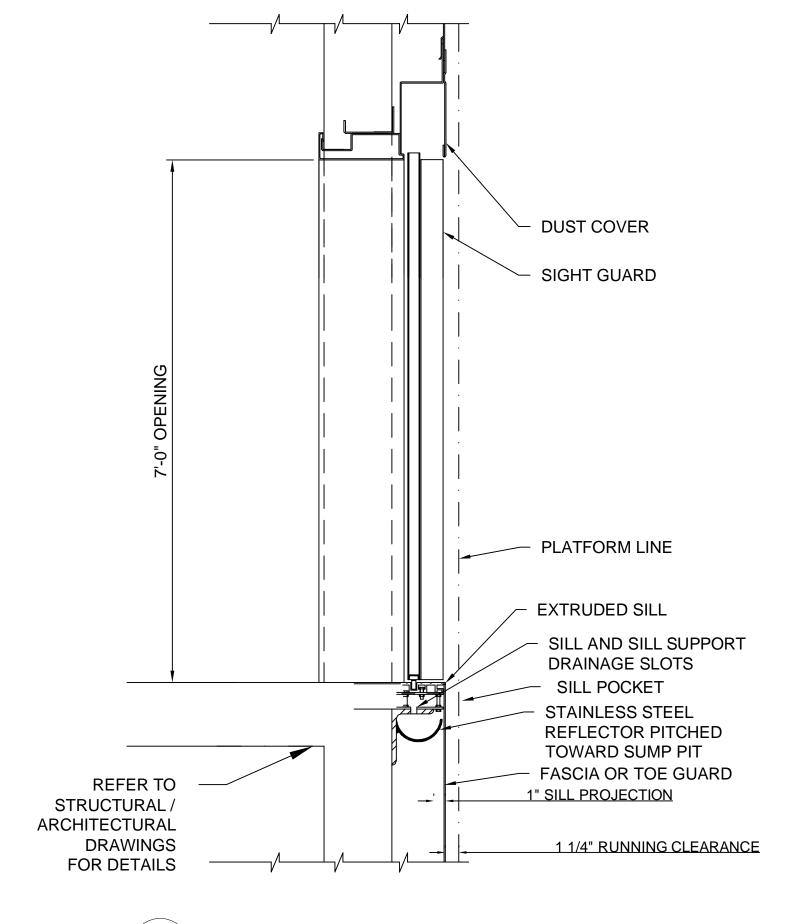
Metro-North Railroad 347 Madison Avenue New York, NY 10017

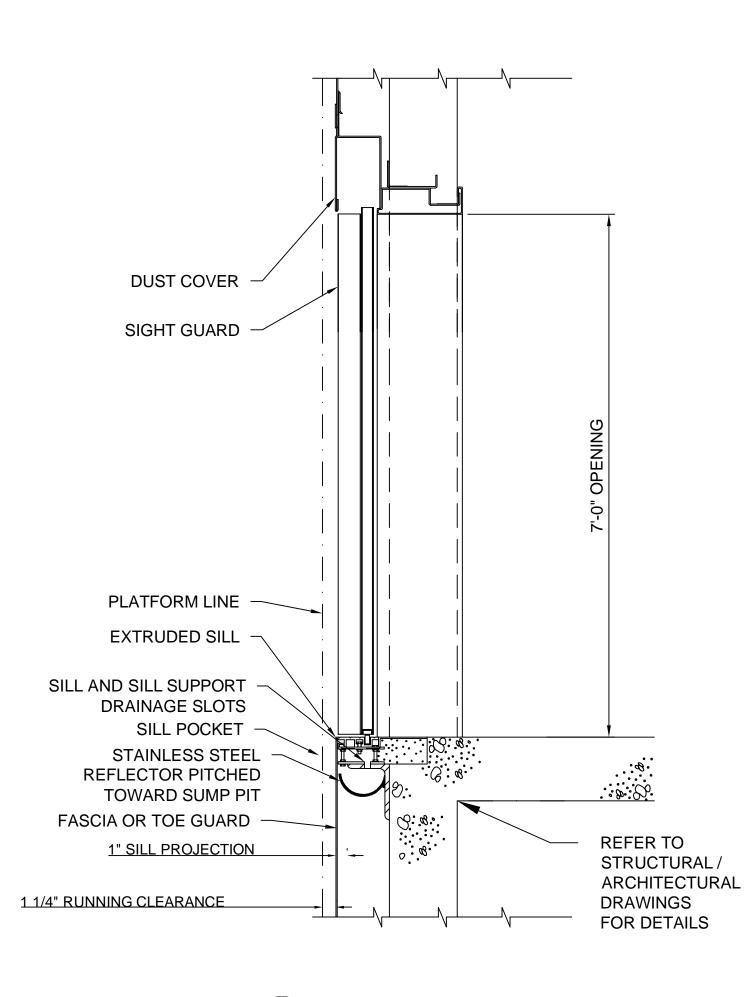
METRO-NORTH STATION IMPROVEMENTS **PURDY'S STATION** PASSENGER ELEVATOR CAB PLAN, SECTIONS, AND CEILING

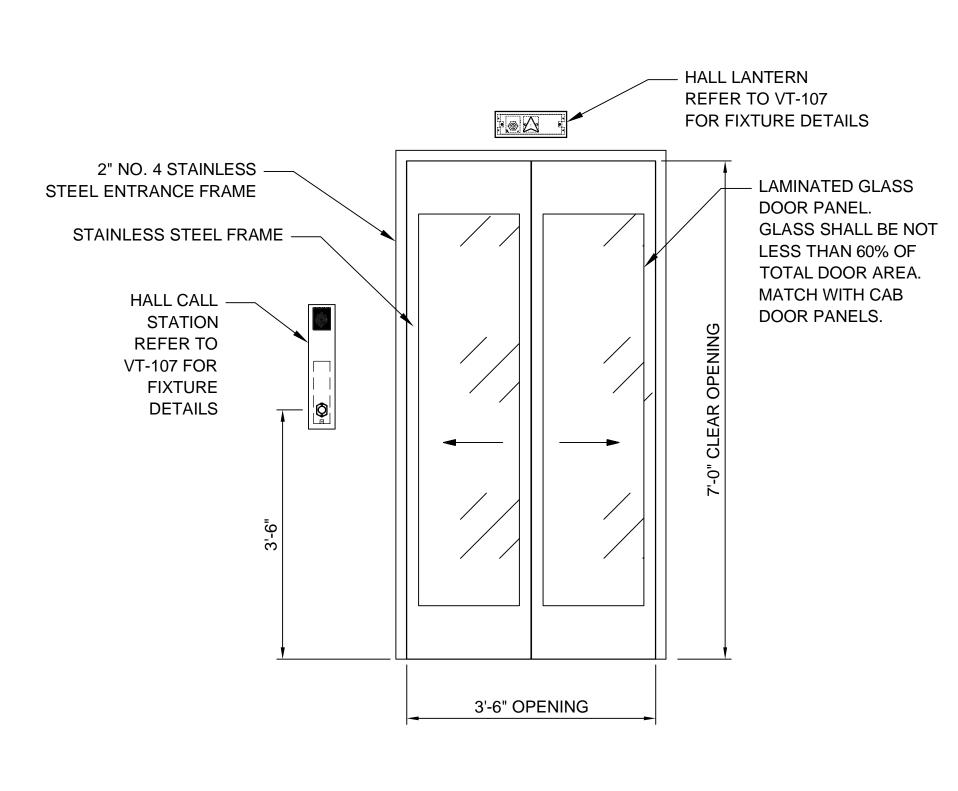
100% DESIGN SUBMISSION CONTRACT NO.
1000106733 AS NOTED 11-20-2019 RAWING NO.

VT-105 SHEET **64** OF **76**

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







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

2 ELEVATOR ENTRANCE AT STATION LEVEL SCALE: NTS

1 TYPICAL DOOR OPENING SCALE: NTS

100% DESIGN SUBMISSION

DESIGNED
P. GOMULKA

DRAWN
F. HUANG
CHECKED
E. ROSS

APPROVED
S. YAGHOBI

REVISIONS

CONFORMED

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CHKD APPVD

REVISIONS

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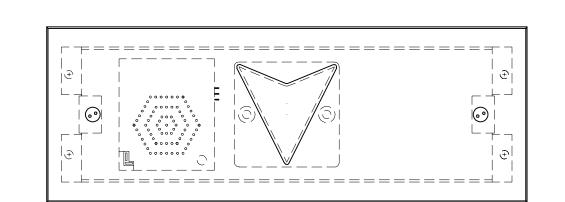
METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
PASSENGER ELEVATOR
ENTRANCE SECTIONS AND DETAILS

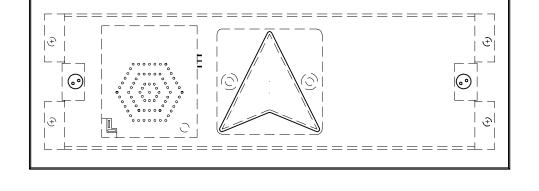
CONTRACT NO.
1000106733

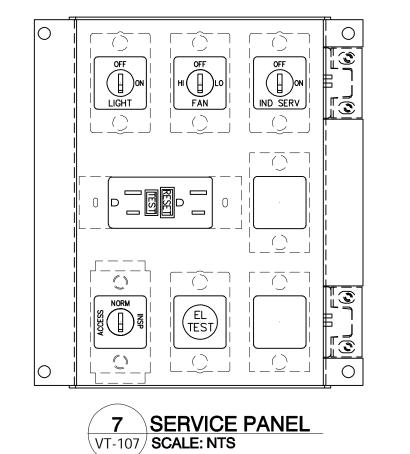
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AS NOTED 11-20-2019

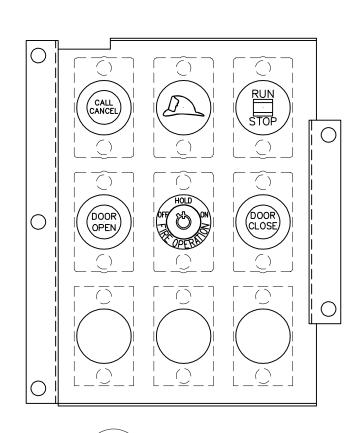
DRAWING NO.

VT-106SHEET 65 OF 76





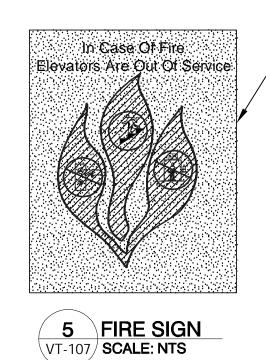


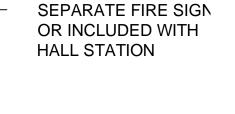


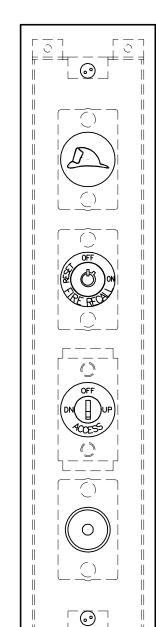
6 FIRE PANEL VT-107 SCALE: NTS

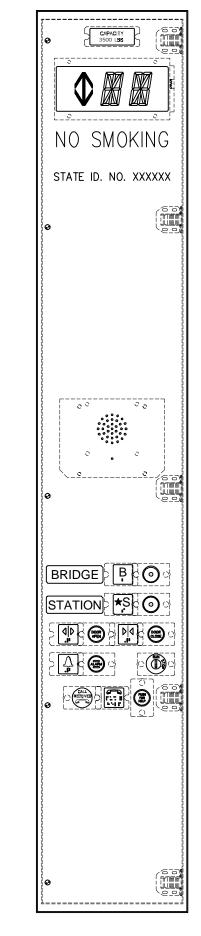
9 VT-107 SCALE: NTS

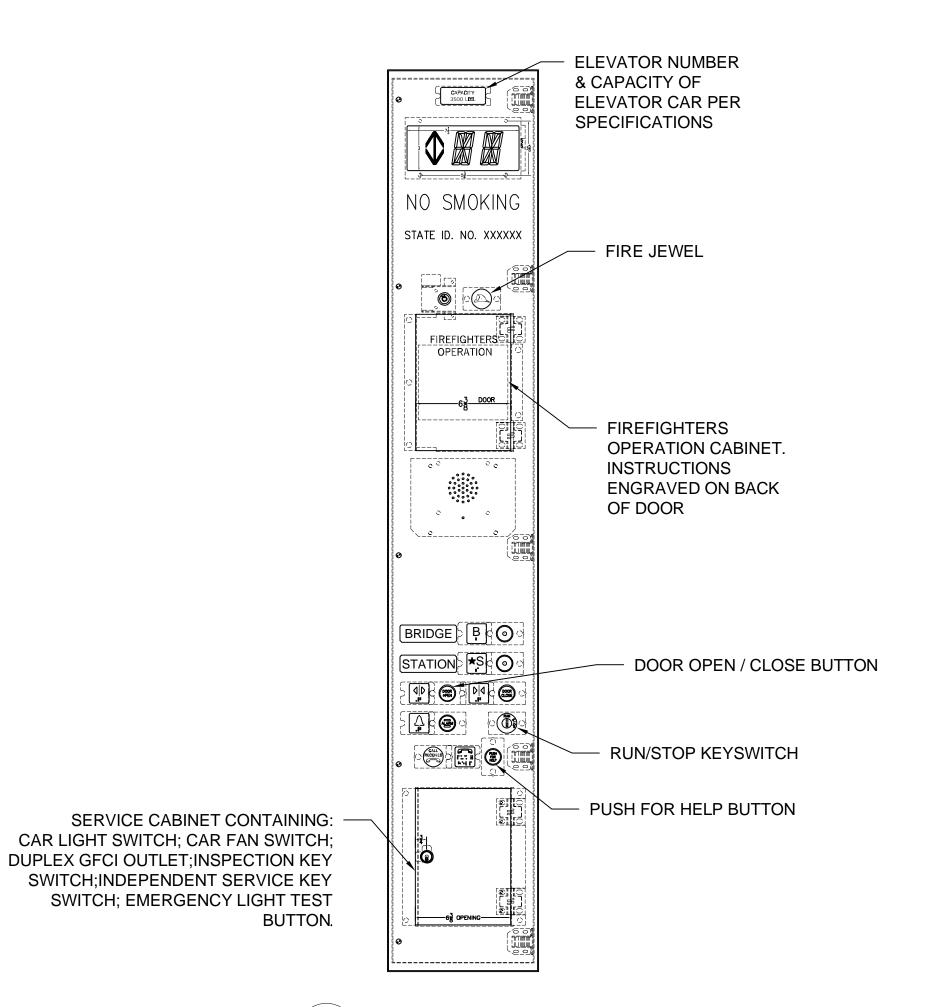


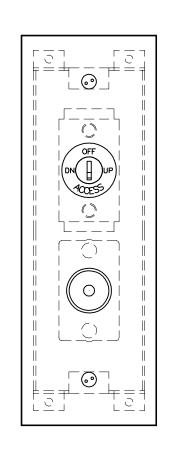




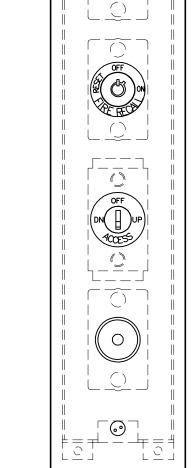








4 TERMINAL HALL STATION @ TOP SCALE: NTS







1 MAIN CAR OPERATING PANEL SCALE: NTS

100% DESIGN SUBMISSION

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

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

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

PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS ABOVE SUSPENDED CEILING AND FURRED WALLS SHALL BE INSTALLED PARALLEL TO THE BEAMS AND 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

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. CALCULATIONS SIGNED AND SEALED BY A DESIGN PROFESSIONAL REGISTERED IN THE STATE OF

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

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

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

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

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.

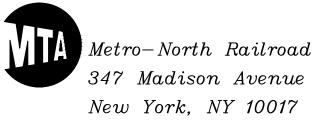
CCTV CAMERA WITH HOUSING ALTERNATIVE CURRENT AMPERE PUBLIC ADDRESS SPEAKER ANSI AMERICAN NATIONAL STANDARDS INSTITUTE $\triangleleft w$ ACCESS POINT WALL PHONE AUX AUXILIARY AWG AMERICAN WIRE GAUGE CONDUIT UP CONDUIT DOWN CATEGORY 6E CABLE CAT6E CATEGORY 6E CABLE (ENHANCED) CCTV CLOSED CIRCUIT TELEVISION COMM COMMUNICATION ELEVATOR CAB INTERCOM ECI CONT. CONTINUED TELEPHONE TERMINAL BOARD DC DIRECT CURRENT / DOOR CONTACT DSP DIGITAL SIGNAL PROCESSOR TELEPHONE TERMINAL BOX DWG DRAWING ELECTRICAL ELEC ΕX **EXISTING** ECI ELEVATOR CAB INTERCOM EHI ELEVATOR HALL INTERCOM FIBER OPTIC CABLE G. GND GROUND GIGA BIT ETHERNET HELP POINT IEEE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS INTERNET PROTOCOL 1/0 INPUT / OUTPUT FUNCTION JUNCTION BOX MTA METROPOLITAN TRANSPIRATION AUTHORITY MULTI MODE MNR METRO NORTH RAIL ROAD NATIONAL ELECTRIC CODE NEMA NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION NO. NUMBER NVR NETWORK VIDEO RECORDER PUBLIC ADDRESS 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 RMROOM SINGLE MODE TB TERMINAL BLOCK TBD TO BE DETERMINED TELE **TELEPHONE** TYP. TYPICAL UL UNDERWRITERS LABORATORIES U.O.N. UNLESS OTHERWISE NOTED

ABBREVIATIONS

100% DESIGN SUBMISSION

CONFORMED DESIGNED FΜ DRAWNFΜ CHECKEDNO. DATEDRWN CHKD APPVD NO. DATE DRWN CHKD APPVD APPROVED REVISIONS REVISIONS





UNINTERRUPTED POWER SUPPLY

VOICE OVER IP

WIDE AREA NETWORK

WITH

WITHOUT

UPS

VOIP

W/

W / O

METRO-NORTH PURDY'S STATION COMMUNICATIONS SYSTEM **GENERAL NOTES**

STATION IMPROVEMENTS

1000106733 11-20-2019 **AS NOTED** DRAWING NO.

SYMBOLS

COM-001 SHEET 67 OF 76

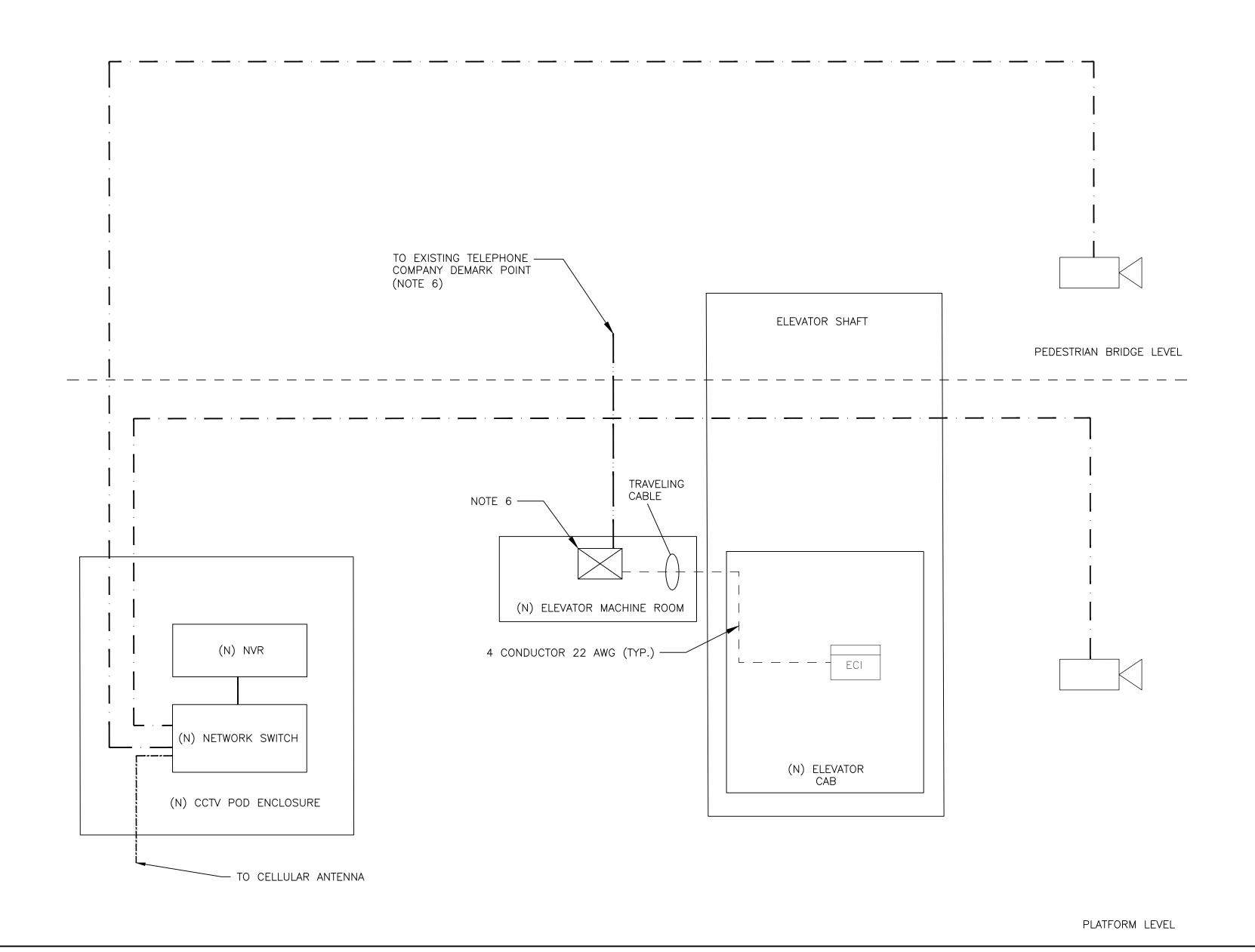
	LEGEND
·	CAT-6 ETHERNET CABLE
	TRAVELING CABLE
	12-PAIR TELEPHONE CABLE
(N)	NEW EQUIPMENT
(E)	EXISTING EQUIPMENT

SHEET NOTES

COMMUNICATIONS SYSTEM

- 1. FOR NOTES, ABBREVIATIONS AND SYMBOLS, REFER TO DWG COMM-001
- FOR INTERCOM DEVICE LAYOUT, REFER TO DWG COM-200.
 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

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CONFORMED

DRWN CHKD APPVD NO. DATE

REVISIONS

REVISIONS

AECOM



Metro-North Railroad 347 Madison Avenue New York, NY 10017 METRO-NORTH
STATION IMPROVEMENTS
PURDY'S STATION
OVERALL COMMUNICATIONS
SYSTEMS DIAGRAM

CONTRACT NO. 1000106733

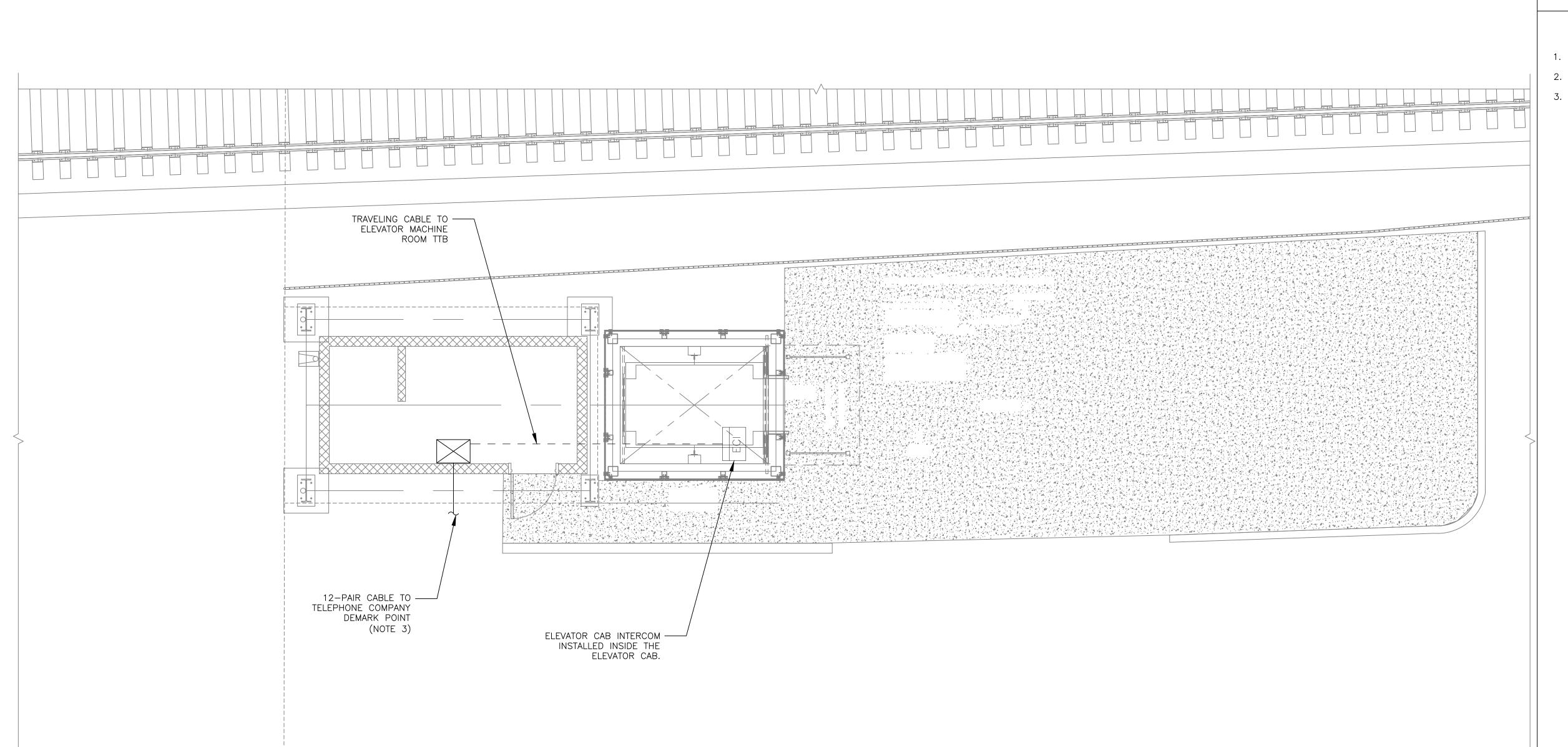
SCALE DATE
AS NOTED 11-20-2019

COM-100

SHEET 68 OF 76

TYPICAL DIAGRAM FOR CCTV SYSTEM

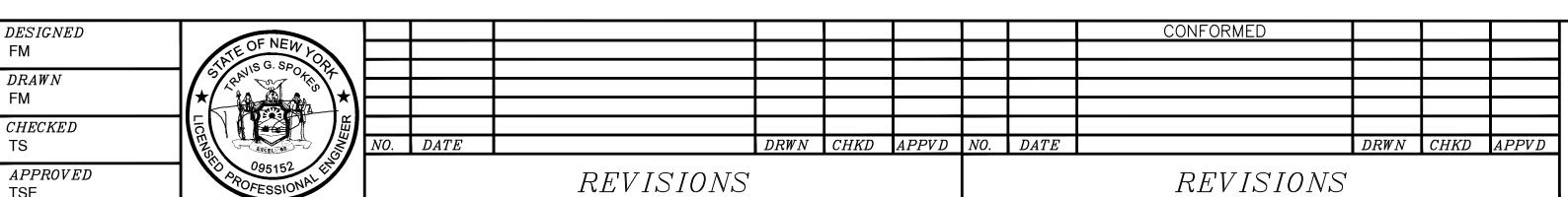
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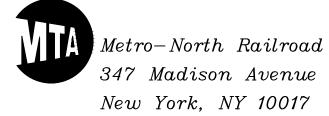
SHEET NOTES

- 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



AECOM



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

NTRACT NO. 1000106733 SCALE DAT

 SCALE
 DATE

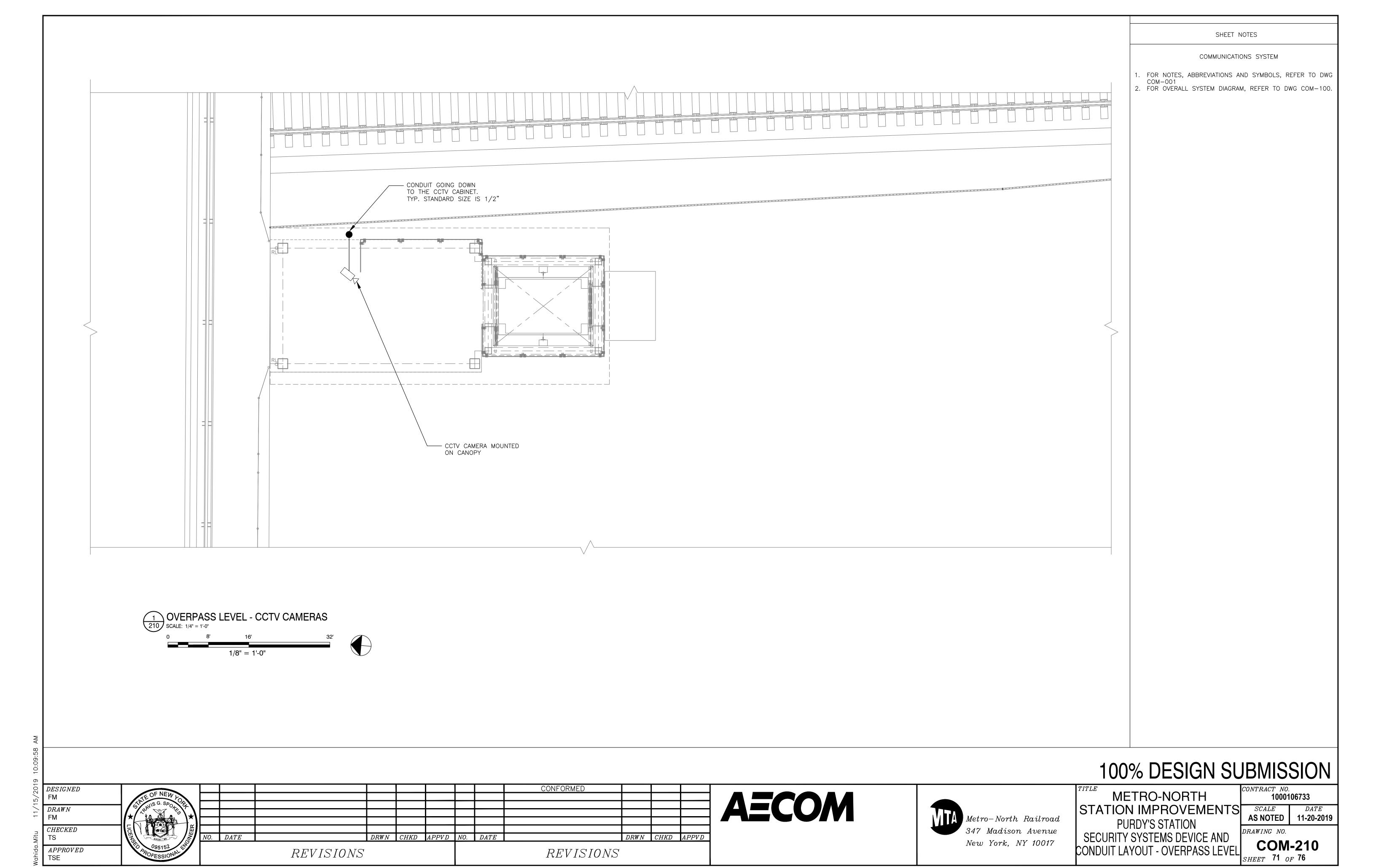
 AS NOTED
 11-20-2019

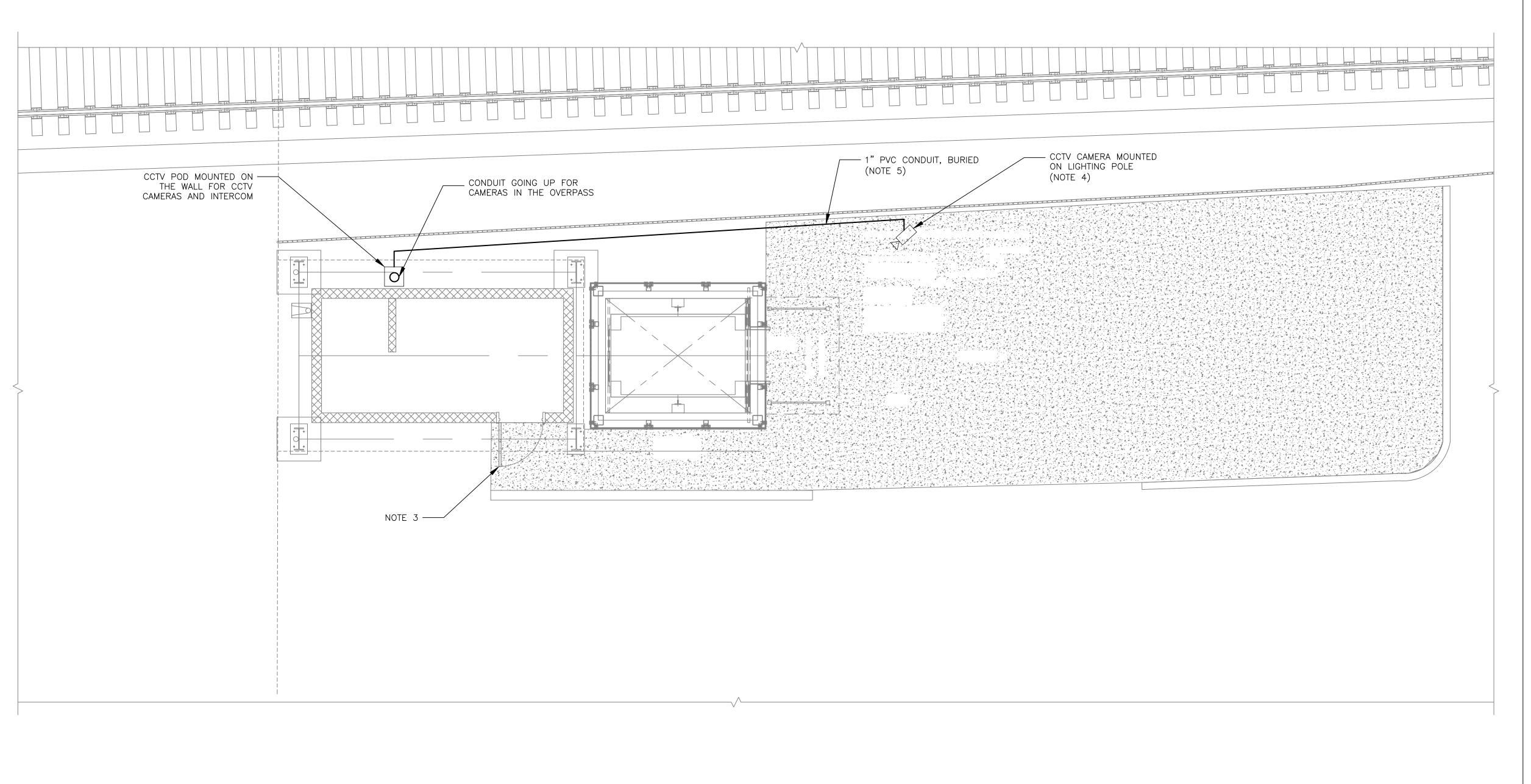
 DRAWING NO.
 NO.

COM-200 SHEET 69 OF 76

STATION LEVEL - INTERCOM SYSTEM

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



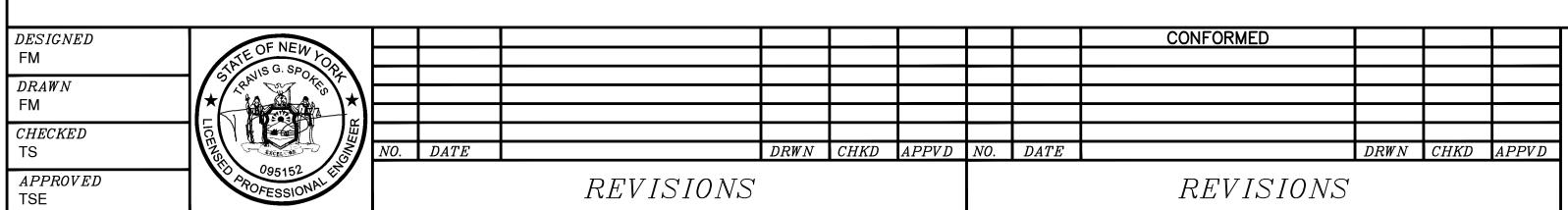


COMMUNICATIONS SYSTEM

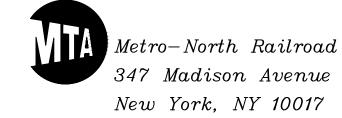
SHEET NOTES

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



AECOM



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

CONTRACT NO.

1000106733

SCALE DATE

 SCALE
 DATE

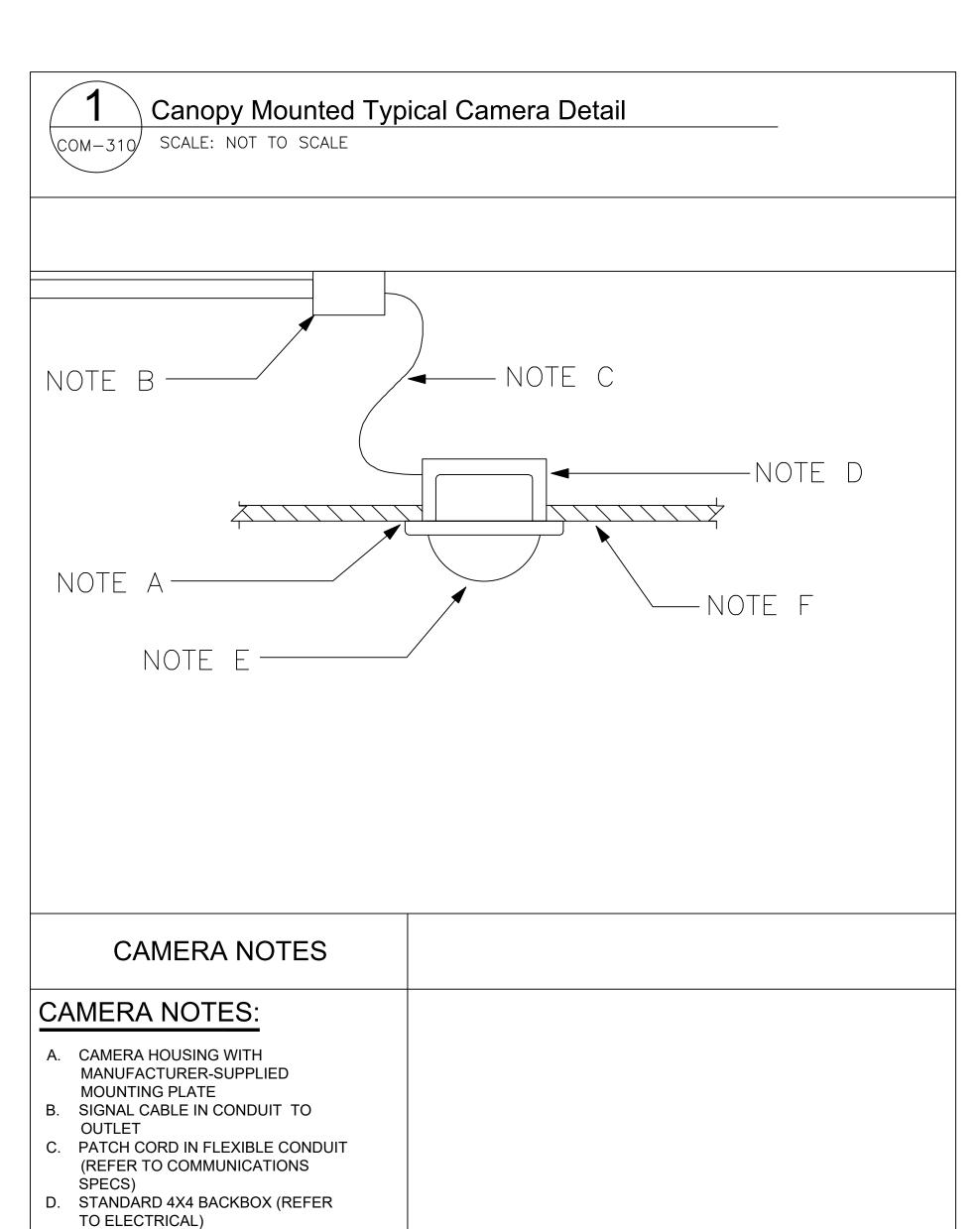
 AS NOTED
 11-20-2019

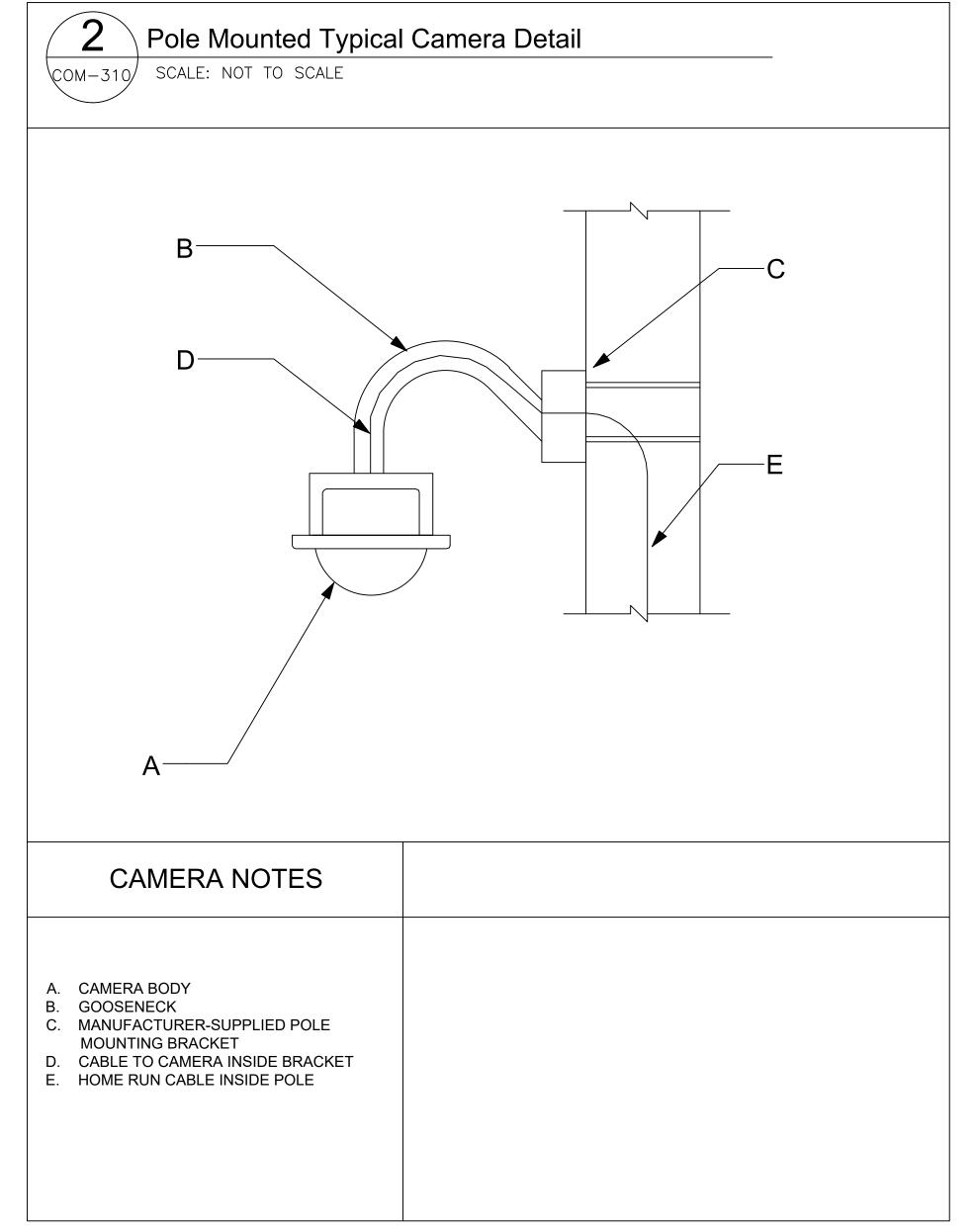
 DRAWING NO.

COM-211
SHEET 72 OF 76

STATION LEVEL - CCTV CAMERAS

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





100% DESIGN SUBMISSION

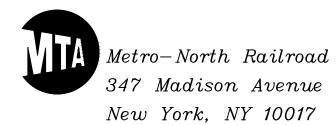
SHEET NOTES

COMMUNICATIONS SYSTEM

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

E. CAMERA DOME F. FINISHED CEILING

AECOM



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

CONTRACT NO.

1000106733

SCALE DAY

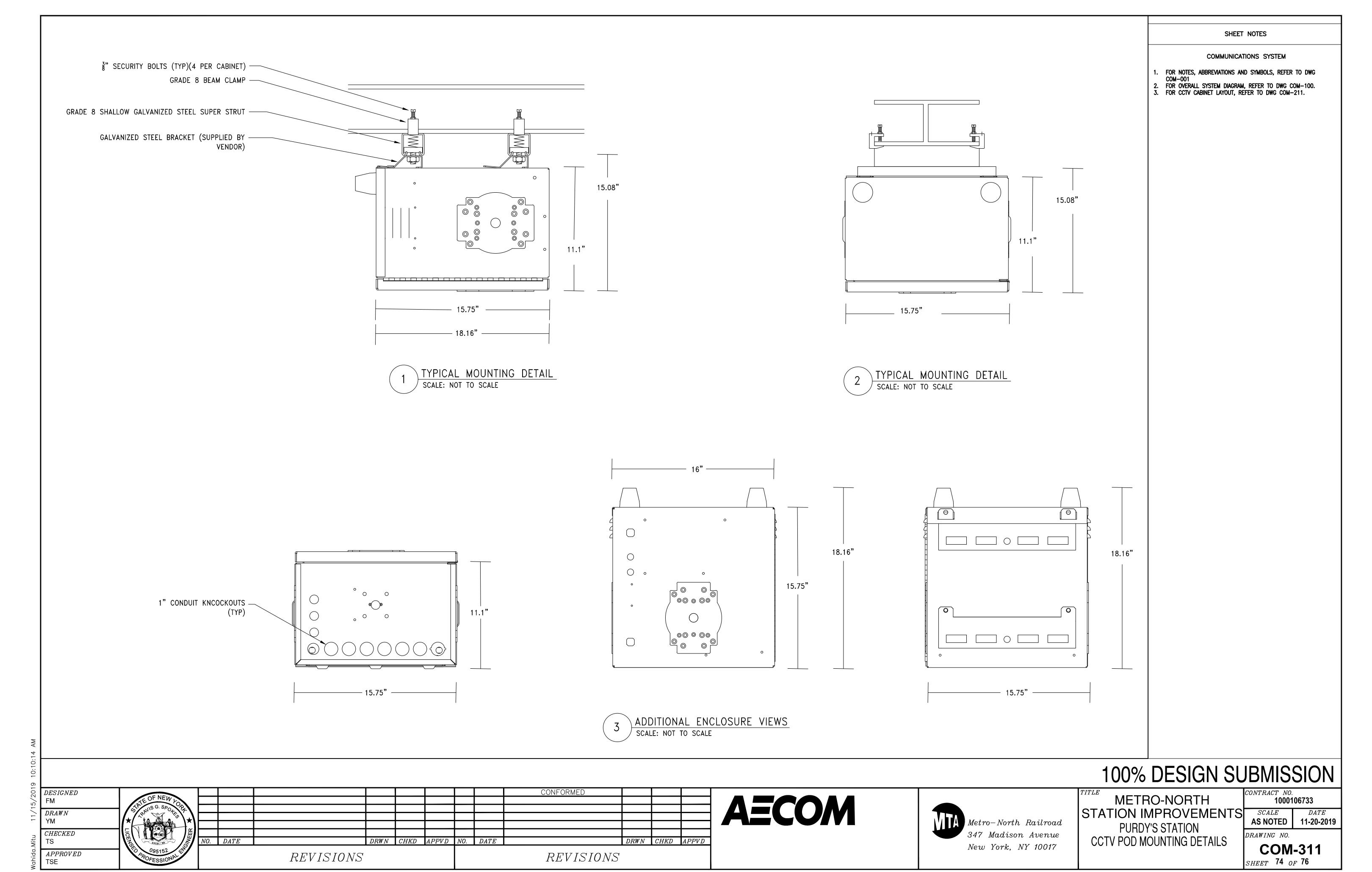
AS NOTED

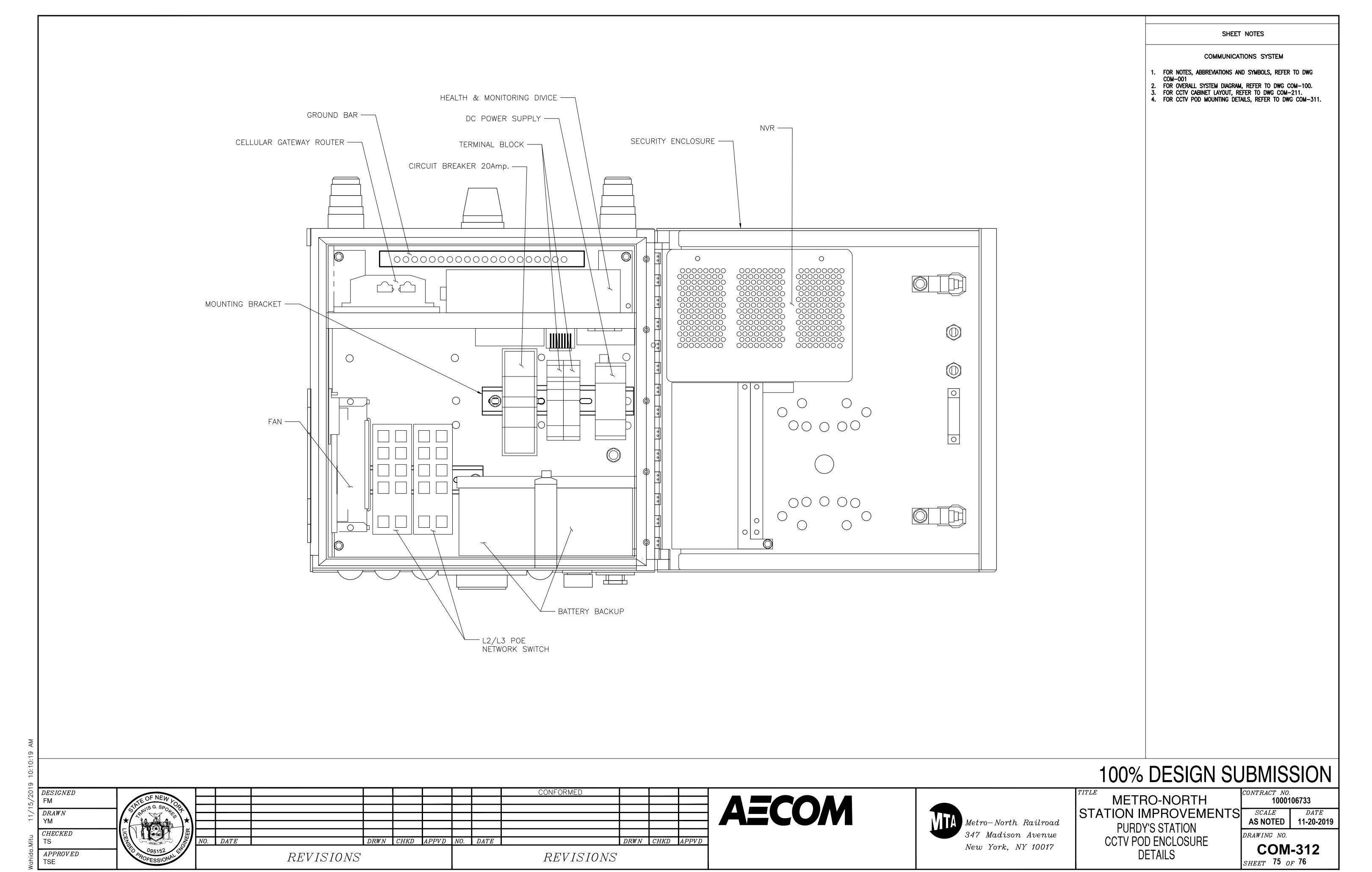
DRAWING NO.

COM-310

SHEET 73 OF 76

11-20-2019





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