

GENERAL NOTES

- 1. THE CONTRACT DOCUMENTS INCLUDE THE WORKING DRAWINGS, PROJECT MANUAL, ADDENDA, MODIFICATIONS, AND THE CONDITIONS OF THE CONSTRUCTION CONTRACT, SPECIFICATIONS, CUT SHEETS, ETC.
- 2. REFER TO CONTRACT DOCUMENTS FOR THE PROJECT, INCLUDING DRAWINGS AND SPECIFICATIONS.
- 3. THE CONTRACT DOCUMENTS ARE THE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER, WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THE CONTRACT DOCUMENTS ARE NOT TO BE USED BY ANYONE FOR OTHER PROJECTS OR EXTENSIONS TO THE PROJECT, NOR ARE THEY TO BE MODIFIED IN ANY MANNER WHATSOEVER EXCEPT BY AGREEMENT IN WRITING BY THE ENGINEER.
- 4. 'FURNISH' OR 'SUPPLY' MEANS TO PURCHASE, PROCURE, ACQUIRE, AND DELIVER COMPLETE WITH RELATED ACCESSORIES.
- 5. 'INSTALL' MEANS TO BE INSTALLED BY CONTRACTOR, COMPLETE AND IN PLACE.
- 6. 'PROVIDE' MEANS FURNISH AND INSTALL, COMPLETE AND IN PLACE.
- 7. 'SIMILAR' (SIM) MEANS COMPARABLE CHARACTERISTICS FOR CONDITIONS NOTED. CONTRACTOR TO VERIFY DIMENSIONS AND ORIENTATION.
- 8. 'TYPICAL' (TYP) MEANS IDENTICAL FOR CONDITIONS NOTED.
- 9. 'EQUAL' (EO) MEANS IDENTICAL IN MATERIALS, WEIGHT, SIZE, DESIGN, FUNCTION, DURABILITY, AND ALL OTHER QUALITIES.
- 10. 'CONCEALED' MEANS EMBEDDED IN MASONRY OR OTHER CONSTRUCTION, INSTALLED IN FURRED SPACES, WITHIN DOUBLE PARTITIONS OR HUNG CEILINGS, IN TRENCHES, IN CRAWL SPACES OR OTHERWISE ENCLOSED AND NOT EASILY VISIBLE.
- 11. 'EXPOSED' MEANS NOT INSTALLED UNDERGROUND OR OTHERWISE 'CONCEALED' AS DESCRIBED ABOVE.
- 12. THE DRAWINGS HAVE BEEN PRODUCED ENTIRELY ON PENNONI CAD SYSTEMS. ANY OTHER LETTERING, LINES, OR SYMBOLS, OTHER THAN PROFESSIONAL STAMPS AND SIGNATURES, HAVE BEEN MADE WITHOUT THE AUTHORIZATION OF PENNONI AND ARE INVALID.
- 13. SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES INDICATED ON THESE DRAWINGS ARE TYPICAL AND MAY NOT INCLUDE ALL SYMBOLS AND ABBREVIATIONS IN THE CONTRACT DOCUMENTS.
- 14. GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS LISTS ARE APPLICABLE TO ALL DRAWINGS/SHEETS IN THESE CONTRACT DOCUMENTS.
- 15. THE CONTRACTOR'S BID SUBMISSION IS CONFIRMATION THAT THE CONTRACTOR HAS COMPLETELY FAMILIARIZED HIMSELF WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR HAS AGREED TO PROVIDE THE NECESSARY LABOR, MATERIALS, AND SUPERVISION TO COMPLETE THE CONTRACT.
- 16. THE CONTRACTOR'S BID SUBMISSION FOR ALL WORK SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. U.O.N.
- 17. ALL MATERIALS AND EQUIPMENT TO BE NEW, UNLESS OTHERWISE NOTED.
- 18. THE WORK, INCLUDING INSTALLATION OF EACH SYSTEM, ITEM, ETC., SHALL BE IN A NEAT AND PROFESSIONAL WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND IN COMPLIANCE WITH ALL FEDERAL, STATE, LOCAL, AND TOWNSHIP CODES AND REGULATIONS, AS WELL AS ANY OTHER AUTHORITIES HAVING JURISDICTION.
- 19. ATTACHMENTS, CONNECTIONS, AND FASTENINGS OF ANY NATURE ARE TO BE PROPERLY AND PERMANENTLY (UNLESS OTHERWISE NOTED) SECURED IN CONFORMANCE WITH BEST PRACTICES (PLUMB, LEVEL, SQUARE, SMOOTH, WITHOUT DEFECT, ETC.). ALL JOINTS SHALL BE CLOSE-FITTING AND JOINED TO CONFORM W/EXPANSION AND CONTRACTION TO PREVENT CRACKING. THE DRAWINGS SHOW ONLY SPECIAL CONDITIONS TO ASSIST THE CONTRACTOR; THEY DO NOT ILLUSTRATE EVERY SUCH CONDITION AND DETAIL. CONTRACTOR SHALL PROVIDE ALL BLOCKING AND FRAMING NECESSARY TO ACHIEVE THESE CONDITIONS. BLOCKING AND FRAMING TO BE CONCEALED UNLESS OTHERWISE NOTED.
- 20. ELEMENTS THAT APPEAR TO BE ALIGNED SHALL BE ASSUMED TO ALIGN WHETHER OR NOT SPECIFICALLY NOTED.
- 21. WORK NOT INDICATED ON A PART OF THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE REPEATED AND PROVIDED AT NO ADDITIONAL COST. MINOR DETAILS OR INCIDENTAL ITEMS NOT SHOWN OR SPECIFIED, BUT NECESSARY FOR A PROPER AND COMPLETE INSTALLATION, SHALL BE INCLUDED IN THE WORK.
- 22. NO WORK DEFECTIVE IN CONSTRUCTION OR QUALITY OR DEFICIENT IN ANY REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS WILL BE ACCEPTABLE IN CONSEQUENCE OF OWNER'S OR ENGINEER'S FAILURE TO DISCOVER OR TO POINT OUT DEFECTS OR DEFICIENCIES DURING CONSTRUCTION; NOR WILL PRESENCE OF INSPECTORS ON WORK SITE RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR SECURING QUALITY AND PROGRESS OF WORK AS REQUIRED BY CONTRACT. DEFECTIVE WORK REVEALED WITHIN TIME REQUIRED BY GUARANTEES SHALL BE REPLACED BY WORK CONFORMING WITH INTENT OF CONTRACT. NO PAYMENT, WHETHER PARTIAL OR FINAL, SHALL BE CONSTRUED AS AN ACCEPTANCE OF DEFECTIVE WORK OR IMPROPER MATERIALS.
- 23. IN THE EVENT OF CONFLICTING PROVISIONS WITHIN THE SPECIFICATIONS AND / OR DRAWINGS, THE MORE STRINGENT SHALL TAKE PRECEDENCE, UNLESS OTHERWISE STATED AND APPROVED BY THE ENGINEER.
- 24. MATERIALS AND WORKMANSHIP SPECIFIED BY REFERENCE TO NUMBER, SYMBOL, TITLE OF A SPECIFICATION SUCH AS COMMERCIAL STANDARDS, FEDERAL SPECIFICATIONS, TRADE ASSOCIATION STANDARD, OR OTHER SIMILAR STANDARD, SHALL COMPLY WITH REQUIREMENTS IN LATEST EDITION OR REVISION THEREOF, AND WITH ANY AMENDMENT OR SUPPLEMENT THERETO IN EFFECT ON DATE OF ORIGIN OF THIS PROJECT'S CONTRACT DOCUMENTS. SUCH STANDARD, EXCEPT AS MODIFIED HEREIN, SHALL HAVE FULL FORCE AND EFFECT AS THOUGH PRINTED IN CONTRACT DOCUMENTS.
- 25. CONTRACTOR SHALL WAIVE 'COMMON PRACTICE' AND 'COMMON USAGE' AS CONSTRUCTION CRITERIA WHEREVER DETAILS AND CONTRACT DOCUMENTS OR GOVERNING CODES, ORDINANCES, ETC. REQUIRE GREATER QUANTITY OR BETTER QUALITY THAN 'COMMON PRACTICE' OR 'COMMON USAGE' WOULD REQUIRE.
- 26. CONTRACTOR SHALL FOLLOW MANUFACTURER'S RECOMMENDED SPECIFICATIONS AND INSTALLATION PROCEDURES. IF THESE ARE

- CONTRARY TO THE CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, IMMEDIATELY, TO RESOLVE DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.
- 27. CONTRACTOR SHALL ORDER AND SCHEDULE DELIVERY OF MATERIALS IN AMPLE TIME TO AVOID DELAYS IN CONSTRUCTION. IF AN ITEM IS FOUND TO BE UNAVAILABLE, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY TO ALLOW ENGINEER A REASONABLE AMOUNT OF TIME TO SELECT A SUITABLE SUBSTITUTE.
- 28. IMMEDIATELY UPON DELIVERY/RECEIPT/ARRIVAL OF MATERIALS AND EQUIPMENT ON SITE, CONTRACTOR SHALL STORE AND PROTECT AGAINST ALL WEATHER AND DAMAGE, IN ACCORDANCE WITH EACH MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS FOR EACH TYPE OF MATERIAL AND EQUIPMENT.
- 29. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF WORK AND BE RESPONSIBLE FOR SUCH.
- 30. SHOULD THE CONTRACTOR AT ANY TIME DISCOVER AN ERROR IN A DRAWING OR SPECIFICATION, OR A DISCREPANCY OR VARIATION BETWEEN INFORMATION OR DIMENSIONS ON DRAWINGS AND CONDITIONS OR MEASUREMENTS AT SITE, OR LACK OF DIMENSIONS OR OTHER INFORMATION, THEY SHALL REPORT AT ONCE TO THE ENGINEER FOR CLARIFICATION AND SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL CLARIFICATION HAS BEEN MADE.
- 31. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL TESTING, INSPECTIONS, AND CERTIFICATIONS AS INDICATED IN THE CONTRACT DOCUMENTS FOR COMPLETION OF THIS WORK.
- 32. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND IS RESPONSIBLE FOR SCHEDULING AND PROVIDING ACCESS FOR ALL REQUIRED INSPECTIONS (TOWNSHIP PERMIT FEE IS WAIVED).
- 33. CONTRACTOR SHALL GIVE ALL REQUIRED NOTICES TO AGENCIES, UTILITIES, AND/OR OTHER PARTIES AFFECTED BY THIS WORK OR THIS CONTRACT.
- 34. JOB SITE SAFETY AND PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 35. MAINTAIN SAFE PROJECT SITE AT ALL TIMES. COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL AGENCIES AND ORDINANCES.
- 36. ALL ACCESS TO EQUIPMENT SHALL BE REMOVED AND/OR SECURED PRIOR TO LEAVING THE SITE FOR THE DAY TO PREVENT UNAUTHORIZED ACCESS.
- 37. NO MOTORIZED EQUIPMENT, VEHICLES, ETC. SHALL BE LEFT UNATTENDED ON THE SITE WHILE UNLOCKED AND / OR WITH THE ENGINE RUNNING.
- 38. PRIOR TO COMMENCEMENT OF THE WORK, SUBMIT A SITE UTILIZATION PLAN FOR REVIEW AND APPROVAL BY ENGINEER AND OWNER. PLAN TO SHOW, AS APPLICABLE: TEMPORARY EGRESS, TEMPORARY SHOWINGS, TEMPORARY UTILITY LINES AND CONNECTIONS, STAGING AREAS, CONSTRUCTION SITE ENTRANCES, VEHICLE CIRCULATION, AND PARKING AREAS FOR CONSTRUCTION PERSONNEL.
- 39. MAINTAIN ACCESS TO DRIVEWAYS, BUILDING ENTRANCES, AND UTILITY ACCESS POINTS AT ALL TIMES FOR EMERGENCY AND FOR TOWNSHIP'S CONTINUED OPERATION OF THE FACILITY.
- 40. MAINTAIN ALL SYSTEMS, SERVICES, AND UTILITIES IN WORKING ORDER. IF IT BECOMES NECESSARY TO SHUT OFF A SYSTEM, SERVICE, OR UTILITY AT ANY POINT DURING EXECUTION OF THE WORK, THE CONTRACTOR WILL GIVE OWNER AT LEAST 72 HOURS NOTICE AND WILL COORDINATE TO A REASONABLE EXTENT TO MINIMIZE INTERRUPTION OF OWNER'S WORK/FACILITIES.
- 41. PROVIDE PROJECT SIGNS AS INDICATED AND WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION. UNAUTHORIZED SIGNS ARE NOT PERMITTED.
- 42. MAINTAIN AND TOUCH-UP SIGNS SO THEY ARE LEGIBLE AT ALL TIMES.
- 43. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO FACILITIES TO REMAIN.
- 44. CONTRACTOR SHALL PROTECT EXISTING SURFACES ADJACENT TO CONTRACT AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIR / REPLACEMENT OF ANY DAMAGE.
- 45. PROTECT EXISTING VEGETATION AND TREES, EQUIPMENT, STRUCTURES, CURBS, PAVEMENT, UTILITIES, AND OTHER IMPROVEMENTS AT PROJECT SITE AND ON ADJACENT PROPERTIES, EXCEPT THOSE INDICATED TO BE REMOVED OR ALTERED. REPAIR ANY DAMAGE CAUSED BY THE WORK TO EXISTING FACILITIES.
- 46. PATCH, REPAIR, OR REPLACE EXISTING CONSTRUCTION AND MATERIALS DISTURBED DURING REPAIR WORK OR OTHER CONSTRUCTION ACTIVITIES. ALL REPAIR OR REPLACEMENT SHALL MATCH ADJACENT EXISTING QUALITY, FINISHES, AND MATERIALS.
- 47. PROVIDE PROTECTION, OPERATE TEMPORARY FACILITIES, AND CONDUCT CONSTRUCTION AS REQUIRED TO COMPLY WITH ENVIRONMENTAL REGULATIONS AND THAT MINIMIZE POSSIBLE AIR, WATERWAY, AND SUBSOIL CONTAMINATION OR POLLUTION OR OTHER UNDESIRABLE EFFECTS.
- 48. MAINTAIN A CLEAN WORK AREA, FREE OF DEBRIS ON THE GROUND, ELIMINATING ANY POSSIBLE CONTACT BY OR WITH THE PUBLIC ON THE SITE. CLEANUP SHALL BE CONTINUOUS, ON A DAILY BASIS.
- 49. PROVIDE WASTE-COLLECTION CONTAINERS IN SIZES ADEQUATE TO HANDLE WASTE FROM CONSTRUCTION OPERATIONS. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. LOCATIONS TO BE AGREED WITH OWNER. CONTAINERS TO BE EMPTIED AS SOON AS FULL.
- 50. CONDUCT FINAL CLEANING PRIOR TO SUBSTANTIAL COMPLETION. USE CLEANING MATERIALS AND METHODS AS DESCRIBED BELOW AND ELSEWHERE IN THE CONTRACT DOCUMENTS.
 - 50.1. USE CLEANING MATERIALS AND AGENTS RECOMMENDED BY MANUFACTURER OR FABRICATOR OF THE SURFACE TO BE CLEANED. DO NOT USE CLEANING AGENTS THAT ARE POTENTIALLY HAZARDOUS TO HEALTH OR PROPERTY OR THAT MIGHT DAMAGE FINISHED SURFACES.
 - 50.2. CLEAN PROJECT SITE, YARD, AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIAL, LITTER, AND OTHER FOREIGN SUBSTANCES.
 - 50.3. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETROCHEMICAL SPILLS, STAINS, AND OTHER FOREIGN DEPOSITS.
 - 50.4. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIAL FROM PROJECT SITE.

- 50.5. CLEAN EXPOSED HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS, AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. RESTORE REFLECTIVE SURFACES TO THEIR ORIGINAL CONDITION.
- 51. REMOVE LABELS THAT ARE NOT PERMANENT.
- 52. UPON COMPLETION OF THE PROJECT AND ACCEPTANCE BY OWNER, CONTRACTOR SHALL SUPPLY TO OWNER BOUND COPIES OF OPERATION AND MAINTENANCE MANUALS, INCLUDING ALL WARRANTIES. CONTRACTOR SHALL INSTRUCT OWNER'S PERSONNEL WITH REGARD TO THE PROPER OPERATION AND MAINTENANCE OF ALL SYSTEMS TO THE SATISFACTION OF OWNER, AND AT NO ADDITIONAL COST TO OWNER.

SELECTIVE DEMOLITION

- 1. DEFINITIONS
 - 1.1. 'DEMO', 'DEMOLISH', OR 'REMOVE' MEANS DETACH ITEMS FROM EXISTING CONSTRUCTION AND DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE SALVAGED OR REINSTALLED.
 - 1.2. 'REMOVE AND REINSTALL' MEANS DETACH ITEMS FROM EXISTING CONSTRUCTION, IN A MANNER TO PREVENT DAMAGE, PREPARE FOR REUSE, AND REINSTALL WHERE INDICATED.
 - 1.3. 'EXISTING TO REMAIN' MEANS LEAVE EXISTING ITEMS THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE SALVAGED OR REINSTALLED.
 - 1.4. 'SALVAGE' MEANS CAREFULLY DETACH ITEMS FROM EXISTING CONSTRUCTION. CLEAN SALVAGED ITEMS AND STORE IN SECURE AREA, PROTECTED FROM ANY DAMAGE, UNTIL DELIVERY TO OWNER.
- 2. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF CONTRACTOR.
- 3. AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANTICIPATED START OF DEMOLITION, SUBMIT SCHEDULE OF SELECTIVE DEMOLITION ACTIVITIES, INDICATING THE FOLLOWING:
 - 3.1. DETAILED SEQUENCE OF SELECTIVE DEMOLITION AND REMOVAL WORK, WITH STARTING AND ENDING DATES FOR EACH ACTIVITY. ENSURE OWNER'S ON-SITE OPERATIONS ARE UNINTERRUPTED.
 - 3.2. BUILDING AND SITE ACCESS, DUMPSTER AND STAGING LOCATIONS.
 - 3.3. COORDINATION OF OWNER'S CONTINUING OCCUPANCY OF PORTIONS OF EXISTING SITE.
 - 3.4. SUBMIT REPORT, INCLUDING DRAWINGS, THAT INDICATES THE MEASURES PROPOSED FOR PROTECTING INDIVIDUALS AND PROPERTY, FOR ENVIRONMENTAL PROTECTION, FOR DUST CONTROL, AND FOR NOISE CONTROL. INDICATE PROPOSED LOCATIONS AND CONSTRUCTION OF BARRIERS.
- 4. PREDEMOLITION PHOTOGRAPHS OR VIDEO. SHOW EXISTING CONDITIONS OF ADJOINING CONSTRUCTION, INCLUDING FINISHED SURFACES, THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY DEMOLITION OPERATIONS.
- 5. OWNER WILL OCCUPY PORTIONS OF SITE IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED.
- 6. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- 7. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
 - 7.1. NEATLY CUT OPENINGS AND HOLES PLUMB, SQUARE, AND TRUE TO DIMENSIONS REQUIRED. USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. USE HAND TOOLS OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING AND CHOPPING. TEMPORARILY COVER OPENINGS TO REMAIN.
 - 7.2. LOCATE SELECTIVE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON ANY OTHER AREA OF THE SITE.
 - 7.3. DISPOSE OF DEMOLISHED ITEMS AND MATERIALS PROMPTLY. COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS REGARDING RECYCLING AND DISPOSAL OF MATERIALS FOR EACH DEMOLISHED MATERIAL.
 - 7.4. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 - 7.5. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
 - 7.6. DO NOT BURY OR BURN WASTE MATERIALS ON-SITE. DO NOT WASH WASTE MATERIALS DOWN SEWERS OR INTO WATERWAYS.
 - 7.7. ON-SITE SALE OF REMOVED ITEMS OR MATERIALS IS NOT PERMITTED.
- 8. EXISTING ITEMS TO REMAIN: PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING SELECTIVE DEMOLITION. WHEN PERMITTED BY ENGINEER, ITEMS MAY BE REMOVED TO A SUITABLE, PROTECTED STORAGE LOCATION DURING SELECTIVE DEMOLITION AND CLEANED AND REINSTALLED IN THEIR ORIGINAL LOCATIONS AFTER SELECTIVE DEMOLITION OPERATIONS ARE COMPLETE.

PRODUCTS AND SPECIFICATIONS

REFERENCE PROJECT MANUAL SECTION 013300 SUBMITTAL PROCEDURES FOR ADDITIONAL INFORMATION.

FOR EACH TYPE OF PRODUCT USED, SUBMIT PHYSICAL SAMPLES, PRODUCT DATA SHEETS, AND SHOP DRAWINGS AS APPROPRIATE FOR REVIEW BY ENGINEER AND OWNER PRIOR TO ORDERING OR INSTALLING EACH ITEM. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, PART NUMBERS, AND FINISHES, AND ANY OTHER PERTINENT INFORMATION. REVIEW PERIOD SHALL BE A MINIMUM OF TWO (2) WEEKS.

DISPOSITION: MAINTAIN SETS OF APPROVED SAMPLES AT PROJECT SITE, AVAILABLE FOR QUALITY-CONTROL COMPARISONS THROUGHOUT THE COURSE OF CONSTRUCTION ACTIVITY. SAMPLE SETS MAY BE USED TO DETERMINE FINAL ACCEPTANCE OF CONSTRUCTION ASSOCIATED WITH EACH SET.

SAMPLES THAT MAY BE INCORPORATED INTO THE WORK ARE INDICATED IN INDIVIDUAL SPECIFICATION SECTIONS AND ON THESE DRAWINGS. SUCH SAMPLES MUST BE IN AN UNDAMAGED CONDITION AT TIME OF USE.

SAMPLES NOT INCORPORATED INTO THE WORK OR NOT OTHERWISE DESIGNATED AS OWNER'S PROPERTY, ARE THE PROPERTY OF CONTRACTOR.

- REPRODUCTION OF ANY PORTION OF THE CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN THIS MANNER WILL BE REJECTED AND RETURNED.
- SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL, WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- 1. JOINT SEALANTS:
 - 1.1. PROVIDE ELASTOMERIC JOINT SEALANTS THAT ESTABLISH AND MAINTAIN WATER-TIGHT AND AIR-TIGHT CONTINUOUS JOINT SEALS WITHOUT STAINING OR DETERIORATING JOINT SUBSTRATES.
 - 1.2. PROVIDE JOINT SEALANTS, PRIMERS, BACKINGS, AND OTHER RELATED MATERIALS AS REQUIRED AND AS RECOMMENDED BY MANUFACTURER THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION, AS DEMONSTRATED BY SEALANT MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
 - 1.3. JOINT SEALANTS TO BE SIKASIL-728 NS OR APPROVED EQUAL, OF TYPE INDICATED BY APPLICATION LOCATION. COLOR TO BE SELECTED BY OWNER FROM MFGR'S FULL RANGE OF STANDARD COLORS.
 - 1.3.1. ELASTOMERIC SEALANTS ARE TO BE NON-STAINING TO POROUS SUBSTRATES. PROVIDE PRODUCTS THAT HAVE UNDERGONE TESTING ACCORDING TO ASTM C 1248 AND HAVE NOT STAINED POROUS JOINT SUBSTRATES INDICATED FOR PROJECT.
 - 1.4. PROVIDE SEALANT BACKINGS OF MATERIAL AND TYPE THAT ARE NON-STAINING; ARE COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND ARE APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING.
 - 1.5. PROVIDE CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, OF TYPE INDICATED BELOW AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE: TYPE C: CLOSED-CELL MATERIAL WITH A SURFACE SKIN.
 - 1.6. PROVIDE PRIMER: MATERIAL RECOMMENDED BY JOINT SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED, AS DETERMINED FROM PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS AND FIELD TESTS AND THROUGH MOCKUPS.
 - 1.7. PROVIDE BOND-BREAKER TAPE AS NEEDED: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT BACK OF JOINT WHERE SUCH ADHESION WOULD RESULT IN SEALANT FAILURE. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.
 - 1.8. PROVIDE MASKING TAPE AS NEEDED: NON-STAINING, NONABSORBENT MATERIAL COMPATIBLE WITH JOINT SEALANTS AND SURFACES ADJACENT TO JOINTS.
 - 1.9. COMPLY WITH ASTM C 920 AND OTHER REQUIREMENTS INDICATED FOR EACH LIQUID-APPLIED CHEMICALLY CURING SEALANT.
 - 1.10. CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS TO COMPLY WITH JOINT SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - 1.10.1. REMOVE ALL FOREIGN MATERIAL FROM JOINT SUBSTRATES THAT COULD INTERFERE WITH ADHESION OF JOINT SEALANT, INCLUDING DUST, PAINTS (EXCEPT FOR PERMANENT, PROTECTIVE COATINGS TESTED AND APPROVED FOR SEALANT ADHESION AND COMPATIBILITY BY SEALANT MANUFACTURER), OLD JOINT SEALANTS, OIL, GREASE, WATERPROOFING, WATER REPELLENTS, WATER, SURFACE DIRT, AND FROST.
 - 1.10.2. REMOVE LAITANCE AND FORM-RELEASE AGENTS FROM CONCRETE.
 - 1.10.3. CLEAN NONPOROUS SURFACES WITH CHEMICAL CLEANERS OR OTHER MEANS THAT DO NOT STAIN, HARM SUBSTRATES, OR LEAVE RESIDUES CAPABLE OF INTERFERING WITH ADHESION OF JOINT SEALANTS.
 - 1.8.4. USE ONLY CHEMICAL CLEANERS ACCEPTABLE TO MANUFACTURERS OF SEALANTS AND SEALANT BACKING MATERIALS AND FORMULATED TO PROMOTE OPTIMUM ADHESION OF SEALANTS WITH JOINT SUBSTRATES.
 - 1.9. DO NOT PROCEED WITH INSTALLATION OF JOINT SEALANTS UNDER THE FOLLOWING CONDITIONS:
 - 1.9.1. WHEN AMBIENT AND SUBSTRATE TEMPERATURE CONDITIONS ARE OUTSIDE LIMITS PERMITTED BY JOINT-SEALANT MANUFACTURER OR ARE BELOW 40 DEG F (5 DEG C).
 - 1.9.2. WHEN JOINT SUBSTRATES ARE WET.
 - 1.9.3. WHERE CONTAMINANTS CAPABLE OF INTERFERING WITH ADHESION HAVE NOT YET BEEN REMOVED FROM JOINT SUBSTRATES.
 - 1.9.4. WHERE JOINT WIDTHS ARE GREATER THAN OR LESS THAN THOSE ALLOWED BY JOINT SEALANT MANUFACTURER FOR APPLICATIONS INDICATED.
 - 1.10. JOINT PRIMING: PRIME JOINT SUBSTRATES WHERE RECOMMENDED IN WRITING BY JOINT SEALANT MANUFACTURER, BASED ON PRECONSTRUCTION JOINT-SEALANT-SUBSTRATE TESTS OR PRIOR EXPERIENCE. APPLY PRIMER TO COMPLY WITH JOINT SEALANT MANUFACTURER'S WRITTEN INSTRUCTIONS. CONFINED PRIMERS TO AREAS OF JOINT-SEALANT BOND; DO NOT ALLOW SPILLAGE OR MIGRATION ONTO ADJOINING SURFACES.
 - 1.11. MASKING TAPE: USE MASKING TAPE WHERE REQUIRED TO PREVENT CONTACT OF SEALANT WITH ADJOINING SURFACES THAT OTHERWISE WOULD BE PERMANENTLY STAINED OR DAMAGED BY SUCH CONTACT OR BY CLEANING METHODS REQUIRED TO REMOVE SEALANT SMEARS. REMOVE TAPE IMMEDIATELY AFTER TOOLING WITHOUT DISTURBING JOINT SEAL.
 - 1.12. INSTALL SEALANT BACKINGS OF TYPE INDICATED TO SUPPORT SEALANTS DURING APPLICATION AND AT POSITION REQUIRED TO PRODUCE CROSS-SECTIONAL SHAPES AND DEPTHS OF INSTALLED SEALANTS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY. DO NOT LEAVE GAPS BETWEEN ENDS OF SEALANT BACKINGS. DO NOT STRETCH, TWIST, PUNCTURE, OR TEAR SEALANT BACKINGS.
 - 1.13. REMOVE ABSORBENT SEALANT BACKINGS THAT HAVE BECOME WET BEFORE SEALANT APPLICATION AND REPLACE THEM WITH DRY MATERIALS.
 - 1.14. INSTALL BOND-BREAKER TAPE BEHIND SEALANTS WHERE SEALANT BACKINGS ARE NOT USED BETWEEN SEALANTS AND BACK OF JOINTS.
 - 1.15. INSTALL SEALANTS BY PROVEN TECHNIQUES. COMPLY WITH RECOMMENDATIONS OF ASTM C 1193 FOR USE OF JOINT SEALANTS AS APPLICABLE TO MATERIALS, APPLICATIONS, AND CONDITIONS INDICATED, AT THE SAME TIME BACKINGS ARE

- INSTALLED, AND TO COMPLY WITH THE FOLLOWING:
 - 1.15.1. PLACE SEALANTS SO THEY DIRECTLY CONTACT AND FULLY WET JOINT SUBSTRATES.
 - 1.15.2. COMPLETELY FILL RECESSES PROVIDED FOR EACH JOINT CONFIGURATION.
 - 1.15.3. PRODUCE UNIFORM, CROSS-SECTIONAL SHAPES AND DEPTHS RELATIVE TO JOINT WIDTHS THAT ALLOW OPTIMUM SEALANT MOVEMENT CAPABILITY.
- 1.16. IMMEDIATELY AFTER SEALANT APPLICATION AND BEFORE SKINNING OR CURING BEGINS, TOOL SEALANTS TO FORM SMOOTH, UNIFORM BEADS OF CONFIGURATION INDICATED, TO ELIMINATE AIR POCKETS; AND TO ENSURE CONTACT AND ADHESION OF SEALANT WITH SIDES OF JOINT.
- 1.17. PROVIDE CONCAVE JOINT CONFIGURATION PER FIGURE 8A IN ASTM C 1193, UNLESS OTHERWISE INDICATED.
- 1.18. CLEAN OFF EXCESS SEALANTS OR SEALANT SMEARS ADJACENT TO JOINTS AS THE WORK PROGRESSES BY METHODS AND WITH CLEANING MATERIALS APPROVED IN WRITING BY MANUFACTURERS OF JOINT SEALANTS AND OF PRODUCTS IN WHICH JOINTS OCCUR.
- 1.19. PROTECT JOINT SEALANTS DURING AND AFTER CURING PERIOD FROM CONTACT WITH CONTAMINATING SUBSTANCES AND FROM DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS OR OTHER CAUSES SO SEALANTS ARE WITHOUT DETERIORATION OR DAMAGE AT TIME OF SUBSTANTIAL COMPLETION. IF, DESPITE SUCH PROTECTION, DAMAGE OR DETERIORATION OCCURS, CUT OUT AND REMOVE DAMAGED OR DETERIORATED JOINT SEALANTS IMMEDIATELY; REINSTALL JOINT SEALANTS SO INSTALLATIONS WITH REPAIRED AREAS ARE INDISTINGUISHABLE FROM THE ORIGINAL WORK.

CONSTRUCTION SEQUENCE

- 1. NOTIFY ENGINEER, TOWNSHIP, AND FIRE COMPANY AT LEAST 7 CALENDAR DAYS IN ADVANCE OF START OF ONSITE ACTIVITIES FOR EACH WORK STAGE.
 - 1.1. IT IS ANTICIPATED THAT THE WORK WILL TAKE PLACE IN EARLY FALL 2026.
- 2. DURING REPAIRS, ONE OR MORE APPARATUS WILL BE TEMPORARILY RELOCATED. DUE TO WATER CONTENT AND SENSITIVE ELECTRONICS / EQUIPMENT, APPARATUS CAN BE PARKED OUTSIDE FOR EACH RESPECTIVE CONSTRUCTION PERIOD DURING MILD WEATHER, IDEALLY BETWEEN 50 DEG F AND 80 DEG F.
- 3. CONTRACTOR'S SCHEDULE GUIDE FOR ENGINE ROOM REPAIRS
 - 3.1. DURING ENGINE ROOM REPAIRS, THE APPARATUS FOR ENGINE BAY 1 TO 3 WILL BE TEMPORARILY RELOCATED ONTO APRON.
 - 3.2. MONDAY - DEMOLITION
 - 3.3. TUESDAY - SUBGRADE PREP AND DOWEL INSTALLATION
 - 3.4. WEDNESDAY - DOWEL INSTALLATION AND SET TRENCH DRAIN SYSTEM, INCLUDING TIE-IN TO EXISTING DRAIN
 - 3.5. THURSDAY - PLACE PREFORMED EXPANSION JOINTS, POUR CONCRETE, AND TOOL CONTROL JOINTS
 - 3.6. FRIDAY - JOINT SEALANTS
 - 3.7. FRIDAY TO SUNDAY - CONCRETE CURE
 - 3.8. MONDAY - REMOVE TEMPORARY MEASURES AND CLEAN UP; RETURN ENGINE ROOM FLOOR TO FIRE COMPANY AT END OF WORK DAY
- 4. CONTRACTOR'S SCHEDULE GUIDE FOR APRON REPAIRS
 - 4.1. MAY BE PERFORMED EITHER BEFORE OR AFTER ENGINE ROOM REPAIRS
 - 4.2. DURING APRON REPAIRS, APPARATUS FOR ENGINE BAY 2 WILL BE TEMPORARILY RELOCATED TO AVOID USING THE RESPECTIVE APRON AREA WHILE WORK IS UNDERWAY.
 - 4.3. MONDAY - SETUP TEMPORARY CONES, ETC.; PERFORM DEMOLITION AND PREP EACH LOCATION
 - 4.4. TUESDAY - PLACE CONCRETE REPAIR MATERIAL. NOTE, HOT WEATHER AND SUN EXPOSURE WILL ACCELERATE REPAIR SET TIME. PERFORM WORK DURING COOLER WEATHER AND PROVIDE TEMPORARY SHADE, IF NEEDED. MIX THE REPAIR BATCH AT TIME OF PLACEMENT FOR EACH LOCATION.
 - 4.5. TUESDAY TO THURSDAY - IF ADD ALTERNATE #1 IS SELECTED, THEN PERFORM JOINT REPLACEMENT
 - 4.6. WEDNESDAY TO FRIDAY - REPAIR AREAS CURE
 - 4.7. FRIDAY - REMOVE TEMPORARY MEASURES AND CLEAN UP; RETURN APRON TO FIRE COMPANY AT END OF WORK DAY

SPECIAL FIRE COMPANY EVENTS

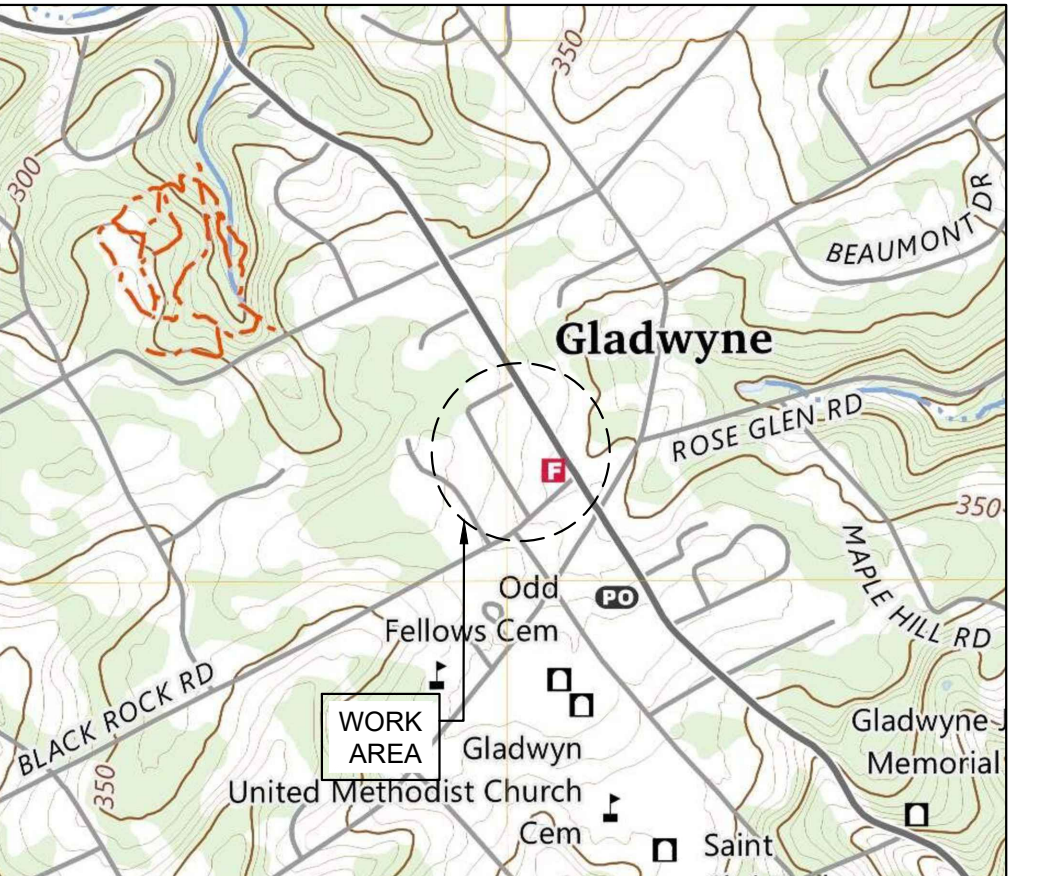
IF WORK IS UNDERWAY AND OVERLAPS WITH THE FOLLOWING EVENTS, THEN PROVIDE TEMPORARY MEASURES AND CLEAN-UP WORK AREA FOR EVENT FOOT TRAFFIC:

- SEPTEMBER 24, 2026 EVENING EVENT

NO WORK ALLOWED DURING THE FOLLOWING EVENTS:

- OCTOBER 4 TO 10, 2026 FOR NATIONAL FIRE PREVENTION WEEK

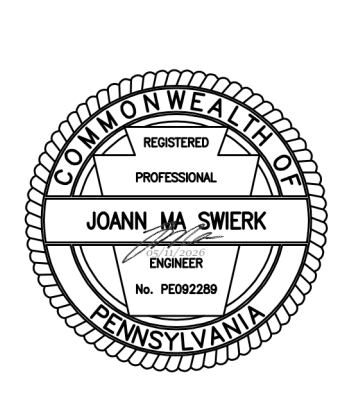
ABOVE SUBJECT TO CHANGE, INCLUDING OTHER EVENTS, WHICH WILL BE REVIEWED DURING THE PRECONSTRUCTION MEETING.



LOCATION PLAN
SCALE: NOT TO SCALE

SYMBOLS & ABBREVIATIONS LIST

(NOT ALL USED)	
	WORK IN THIS AREA, SEE KEYNOTE
	ALIGN FACES OF ELEMENTS IN PLANE AS INDICATED
	CENTER LINE
	DETAIL OR DRAWING NUMBER SHEET NUMBER
	ELEVATION NUMBER SHEET NUMBER
	ELEVATION DATUM
ADA	AMERICANS WITH DISABILITIES ACT
AFB	ABOVE FINISHED FLOOR
BLDG	BUILDING
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CTR	CENTER
DIAMØ	DIAMETER
DTLS	DETAILS
DWGS	DRAWINGS
EQ.	EQUAL
HM	HOLLOW METAL
IBC	INTERNATIONAL BUILDING CODE
IEBC	INTERNATIONAL EXISTING BUILDING CODE
INT.	INTERIOR
MAX.	MAXIMUM
MIN.	MINIMUM
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFGR.	MANUFACTURER
MISC.	MISCELLANEOUS
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
OC	ON CENTER
P.T.	PRESSURE TREATED
PTD	PAINTED
RD	ROOF DRAIN
REQ'D	REQUIRED
RM	ROOM
SF	SQUARE FEET
SIM.	SIMILAR
SS	STAINLESS STEEL
T.O.M.	TOP OF MASONRY
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
W/	WITH



GENERAL NOTES

GLADWYNE FIRE COMPANY
APRON & ENGINE ROOM FLOOR REPAIRS

1044 BLACK ROCK ROAD
GLADWYNE, PENNSYLVANIA 19035

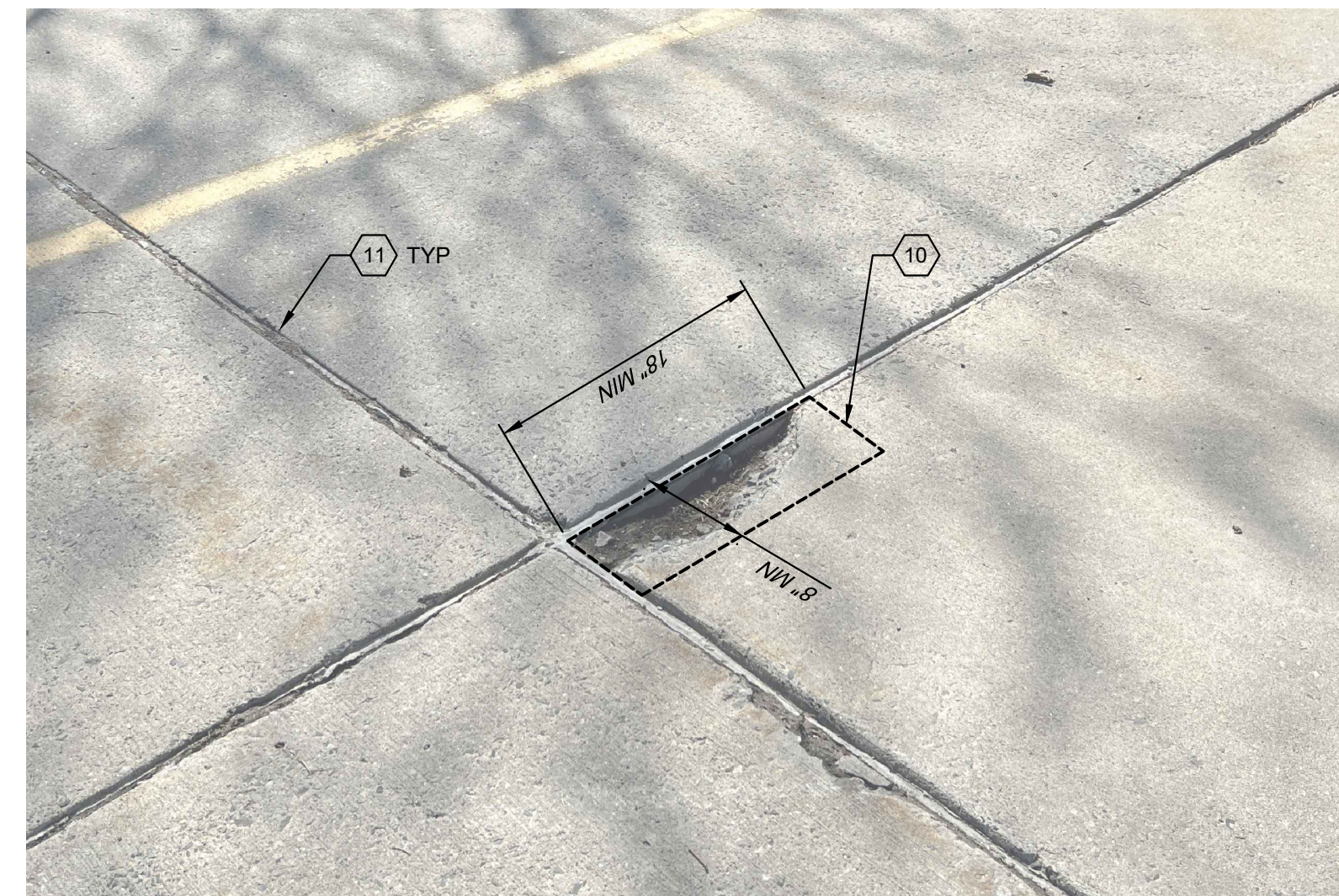
TOWNSHIP OF LOWER MERION
OFFICE OF THE TOWNSHIP ENGINEER

75 EAST LANCASTER AVENUE
ARDMORE, MONTGOMERY COUNTY, PENNSYLVANIA 19003

DATE: 2026-05-11
SCALE: AS NOTED
DRAWN BY: ZAP
APPROVED BY: JM
SHEET: 1 OF 3
DRAWING NO.: C-1



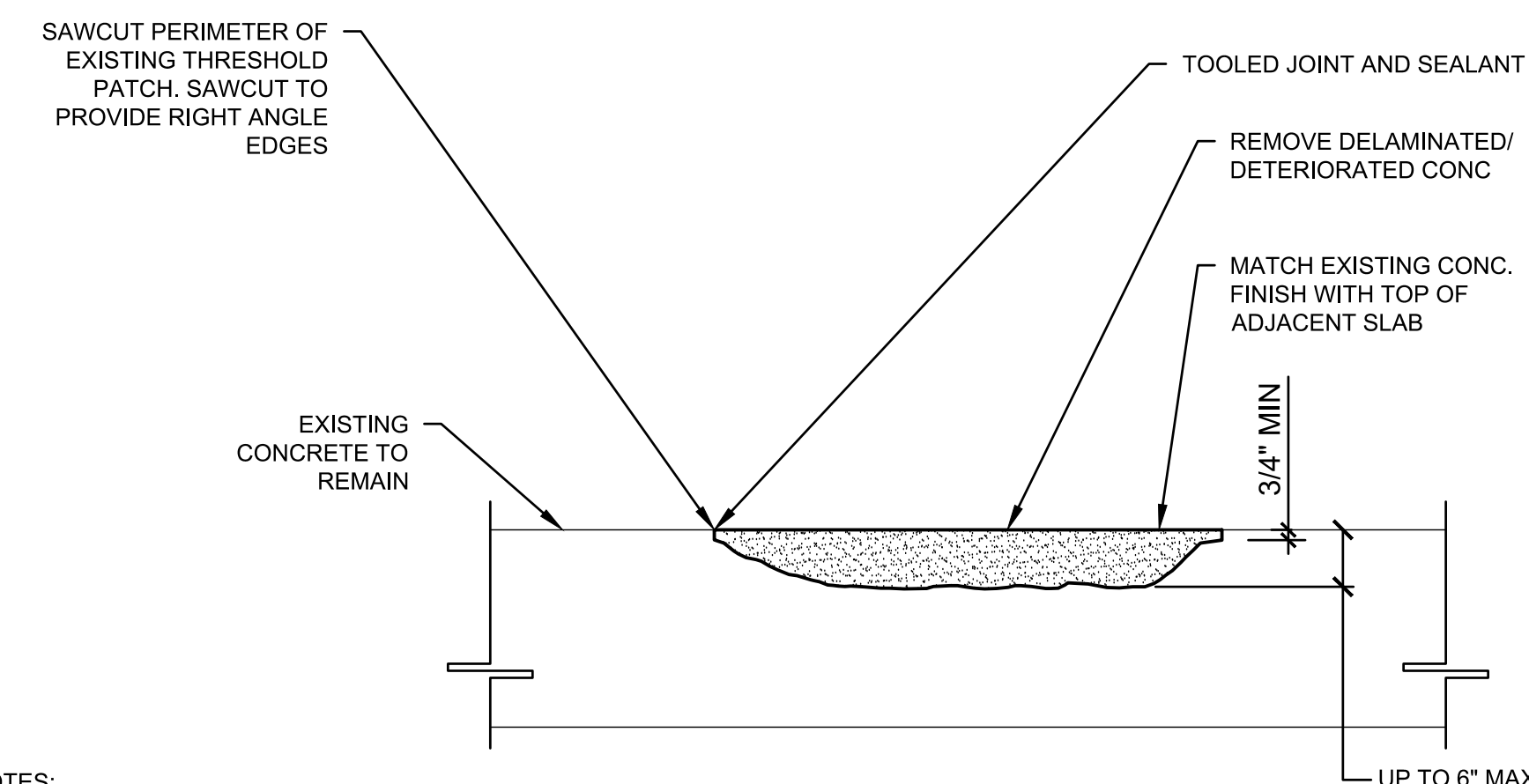
1 APRON PLAN
C-2 NOT TO SCALE



2 APRON REPAIR AREA #1
C-2 NOT TO SCALE

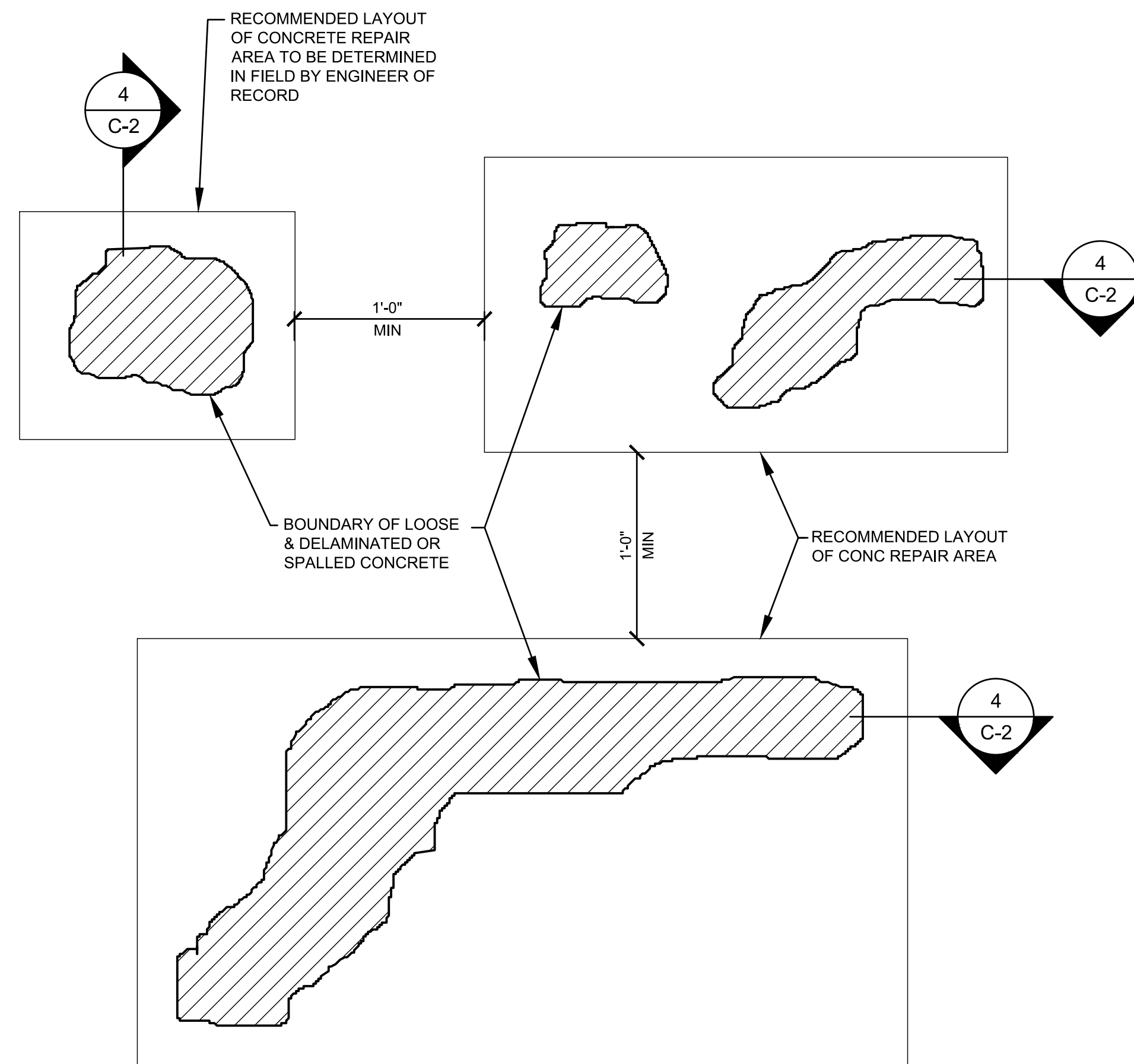


3 APRON REPAIR AREA #2
C-2 NOT TO SCALE



- NOTES:**
- REFER TO PLANS FOR REPAIR LAYOUT AND EXTENT OF SLAB REPAIR. FINAL EXTENT AND LAYOUT OF REPAIR TO BE VERIFIED IN FIELD.
 - SAWCUT AND MAINTAIN RIGHT ANGLE OF CUT TO CONCRETE SURFACE. MAINTAIN A MINIMUM REPAIR DEPTH OF 3/4" AT THE PERIMETER OF THE REPAIR. REPAIR AREA SHOULD NOT BE LESS THAN 2" IN DEPTH.
 - REMOVE ALL LOOSE OR DELAMINATED CONCRETE. CHIP CONCRETE BACK TO SOUND CONCRETE SUBSTRATE. ROUGHEN SURFACE OF EXPOSED CONCRETE PER MANUFACTURER INSTRUCTION
 - CLEAN CONCRETE SURFACE. REMOVE ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL.
 - AFTER REMOVAL AND CLEANING OF THE CONCRETE SURFACE, CONTACT THE ENGINEER AND EUCLID REPRESENTATIVE FOR REVIEW OF THE CONCRETE SUBSTRATE.
 - PREPARE THE CONCRETE SUBSTRATE AS REQUIRED. BONDING AGENT/ANTI-CORRODING COATING TO BE EUROWELD 2.0 BY EUCLID CHEMICAL OR APPROVED EQUAL. APPLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - APPLY AND CURE REPAIR MORTAR IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS FOR WET CURE. REPAIR MORTAR TO BE VERSASPEED 100 BY EUCLID CHEMICAL OR APPROVED EQUAL.
 - PROVIDE TOOLED SEALANT JOINT AT PERIMETER OF ALL SLAB REPAIRS AND WHERE INDICATED.

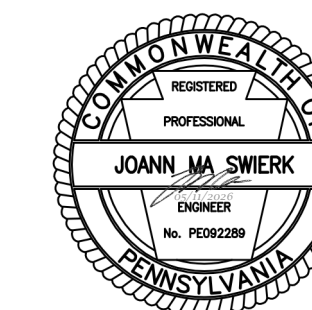
4 PARTIAL DEPTH TOPSIDE CONCRETE SLAB ON GRADE REPAIR DETAIL
C-2 NOT TO SCALE



- NOTES:**
- REPAIR LAYOUT CONFIGURATIONS SHALL BE SIMPLIFIED AS MUCH AS POSSIBLE. MAINTAIN SQUARE CORNERS OF REPAIR AREA.
 - MAINTAIN MINIMUM EDGE DISTANCE BETWEEN ADJACENT CONCRETE REPAIR AREAS OF 1'-0". WHERE EDGE DISTANCE IS LESS THAN 1'-0", COMBINE REPAIR AREAS.

5 CONCRETE SLAB SELECTIVE REMOVAL DETAIL
C-2 NOT TO SCALE

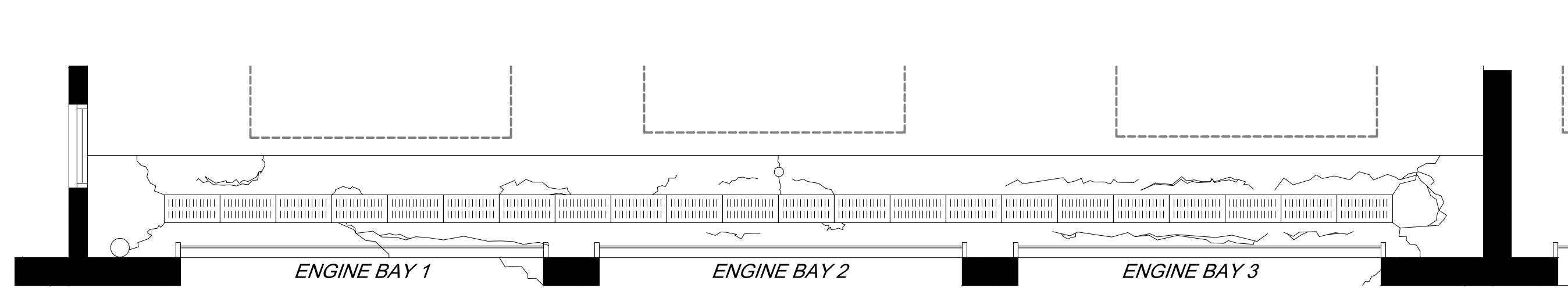
CONSTRUCTION KEY NOTES	
10	APRON: PERFORM TOPSIDE REPAIR OF CONCRETE. REFER TO DETAIL 4/C-2 & 5/C-2.
11	APRON (ADD ALTERNATE): RAKE OUT ALL JOINTS. CLEAN, PREPARE, AND INSTALL NEW BACKER ROD WITH SEALANT.
20	ENGINE ROOM FLOOR: SAWCUT AND DEMOLISH CONCRETE AND TRENCH DRAIN IN ITS ENTIRETY.
30	ENGINE ROOM FLOOR: PREPARE AND INSTALL NEW TRENCH DRAIN SYSTEM WITH CONCRETE SLAB PER DETAIL 8/C-3.
31	ENGINE ROOM FLOOR: RAKE OUT JOINT. CLEAN, PREPARE, AND INSTALL NEW BACKER ROD WITH SEALANT.
40	ENGINE ROOM FLOOR (CONTINGENCY): IF AND WHERE INDICATED, ROUTE CRACK. CLEAN, THEN INSTALL BACKER ROD WITH SEALANT.



APRON REPAIRS
GLADWYNE FIRE COMPANY
APRON & ENGINE ROOM FLOOR REPAIRS
1044 BLACK ROCK ROAD
GLADWYNE, PENNSYLVANIA 19035

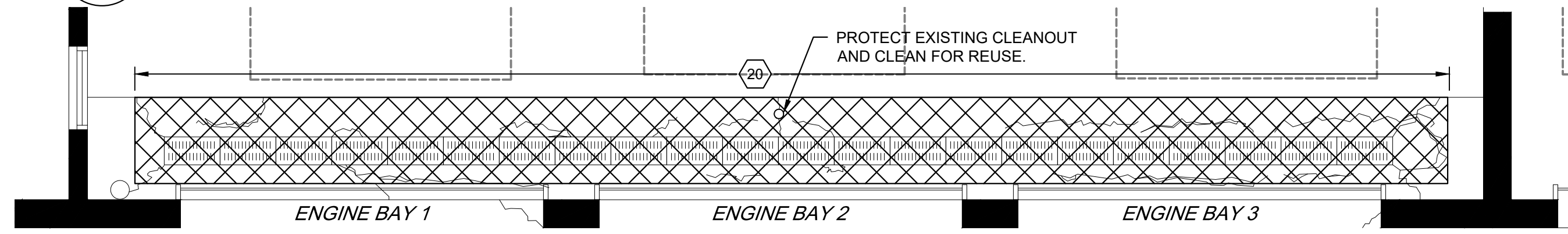
TOWNSHIP OF LOWER MERION
OFFICE OF THE TOWNSHIP ENGINEER
75 EAST LANCASTER AVENUE
ARDMORE, MONTGOMERY COUNTY, PENNSYLVANIA 19003

DATE: 2026-05-11
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DRAWING NO.: C-2



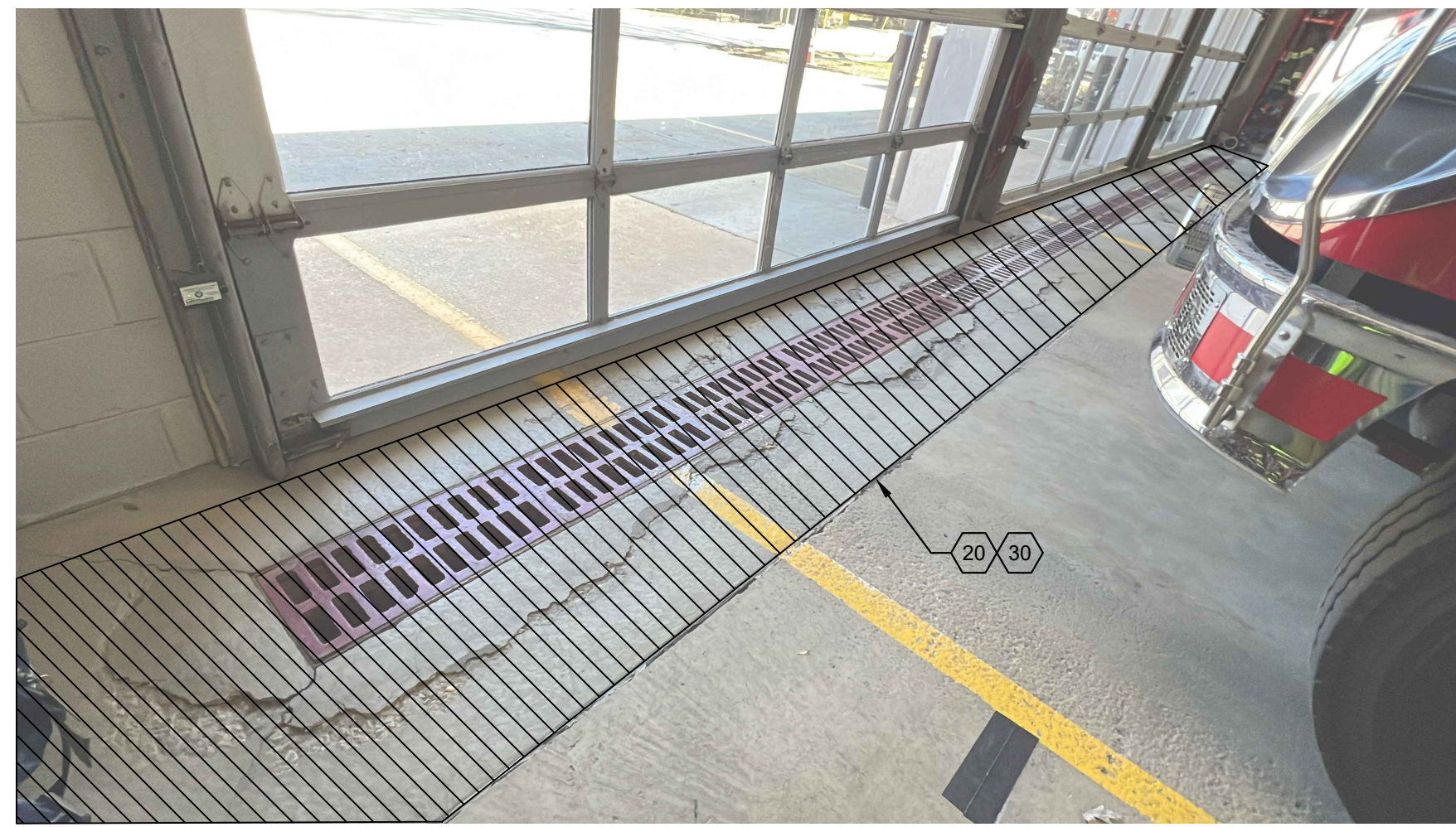
1 EXISTING FLOOR PLAN

C-3 SCALE: 1/4"=1'-0"



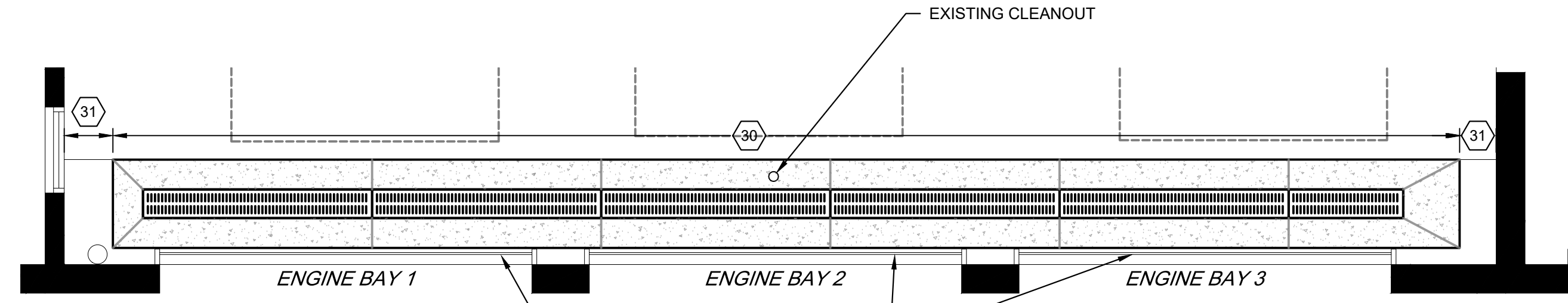
2 SELECTIVE DEMOLITION PLAN

C-3 SCALE: 1/4"=1'-0"



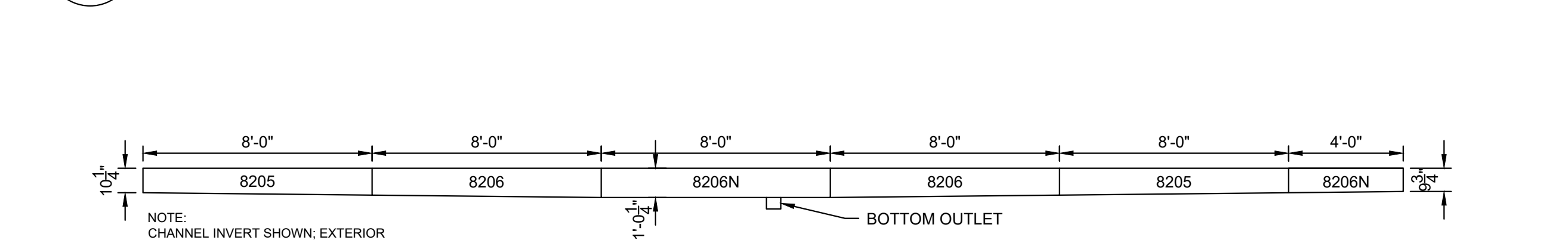
5 ENGINE FLOOR DETAIL

C-3 NOT TO SCALE



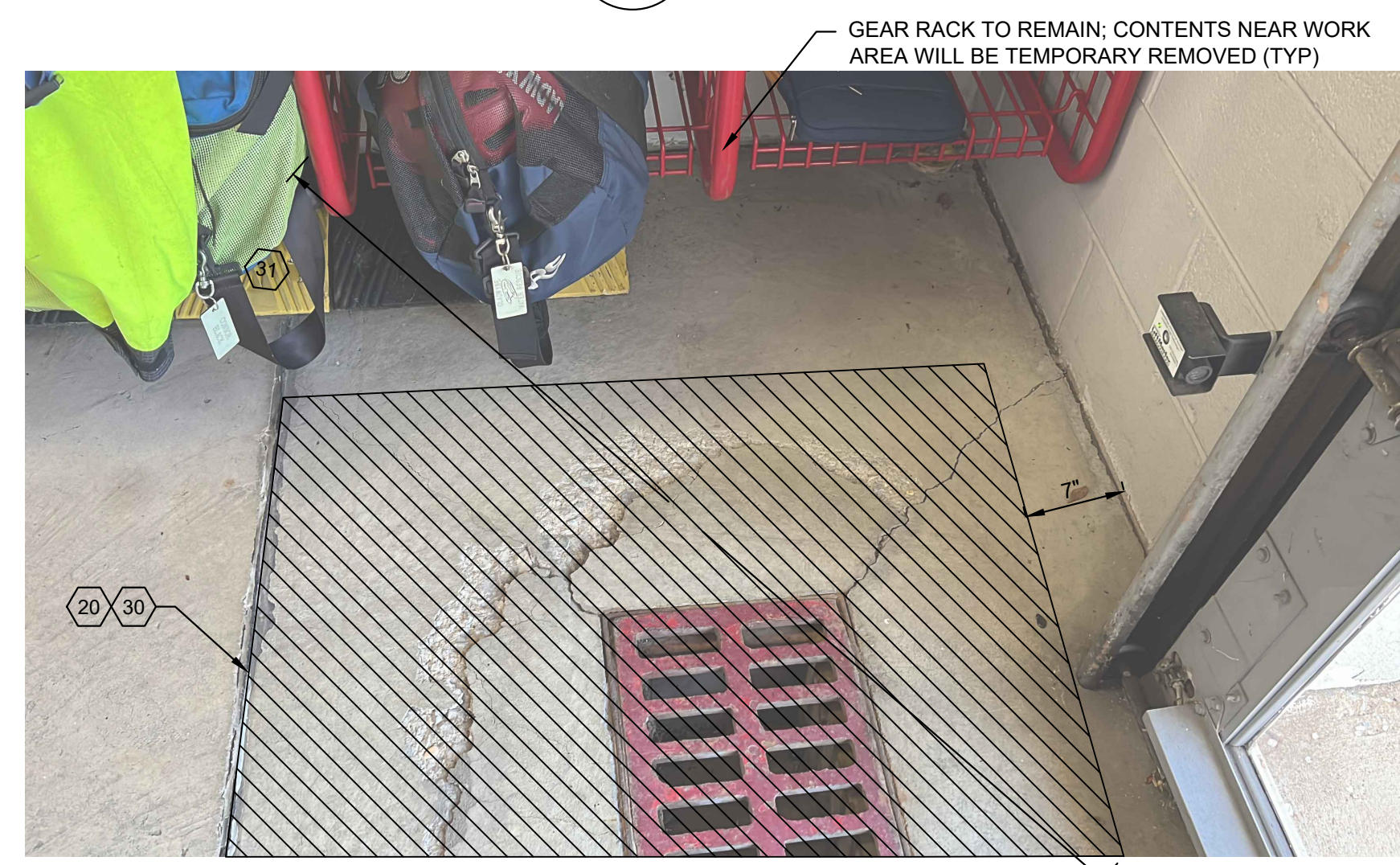
3 PROPOSED PLAN

C-3 SCALE: 1/4"=1'-0"



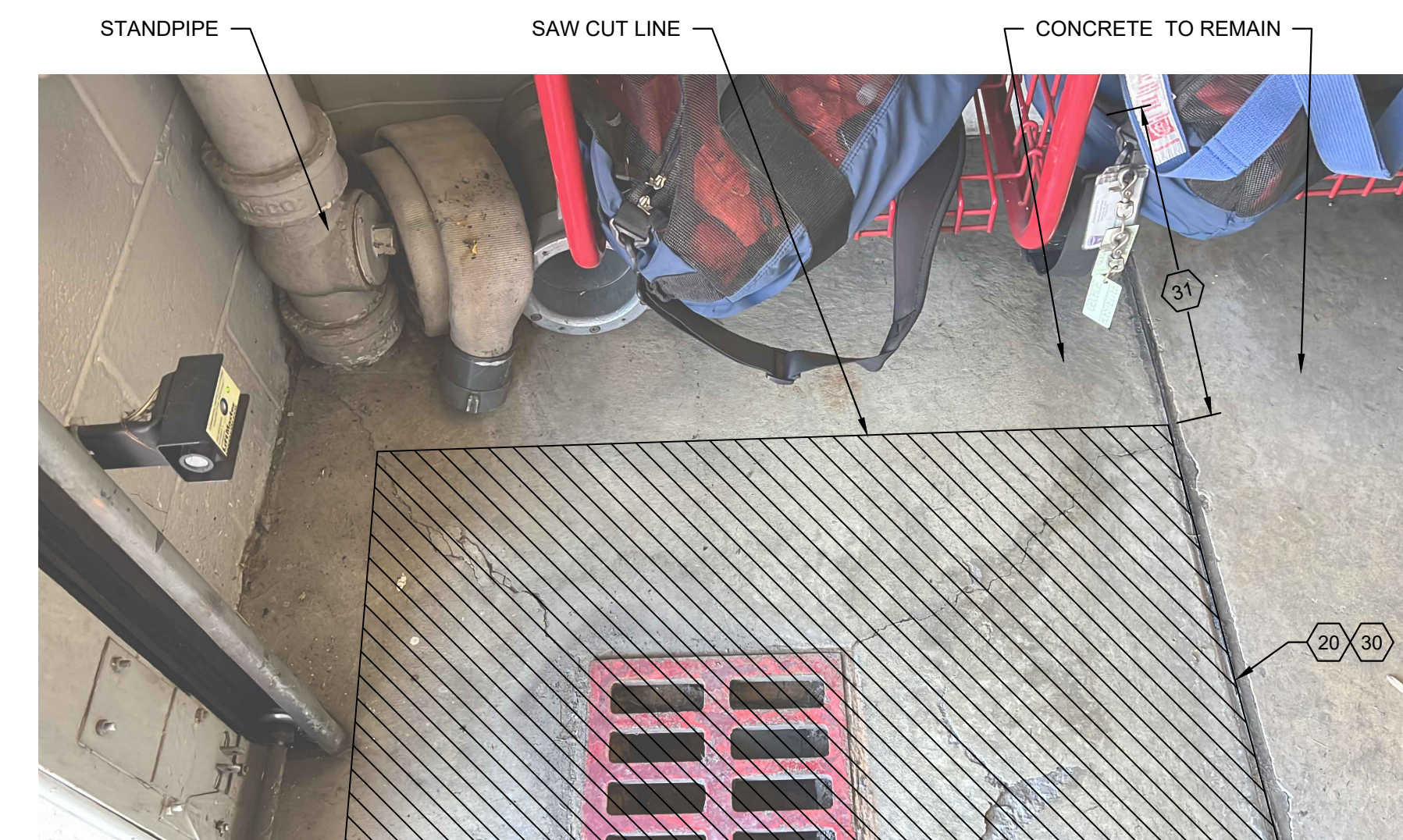
4 PROPOSED TRENCH DRAIN SYSTEM PROFILE

C-3 SCALE: 1/4"=1'-0"



6 ENGINE BAY 3 DETAIL

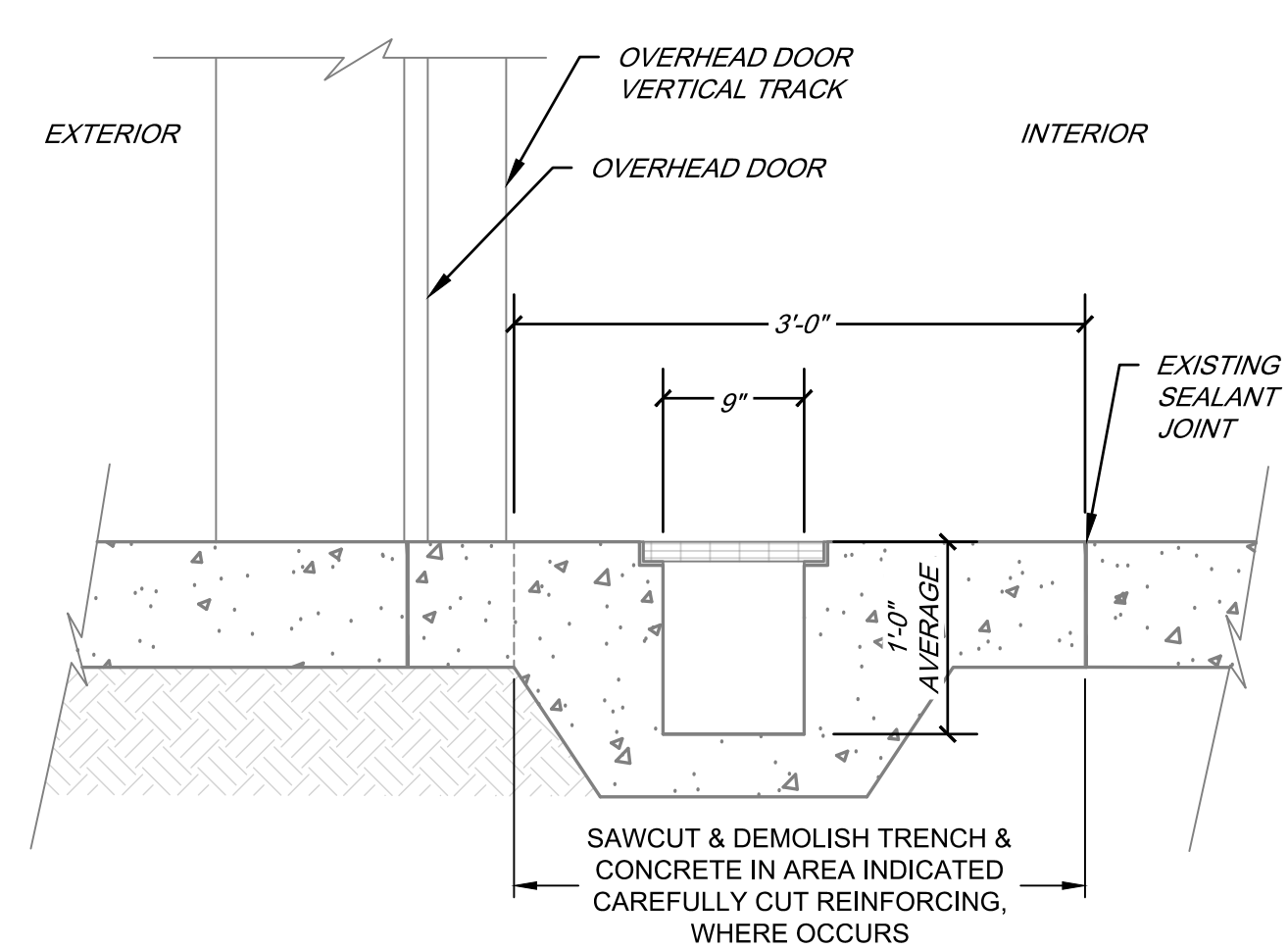
C-3 NOT TO SCALE



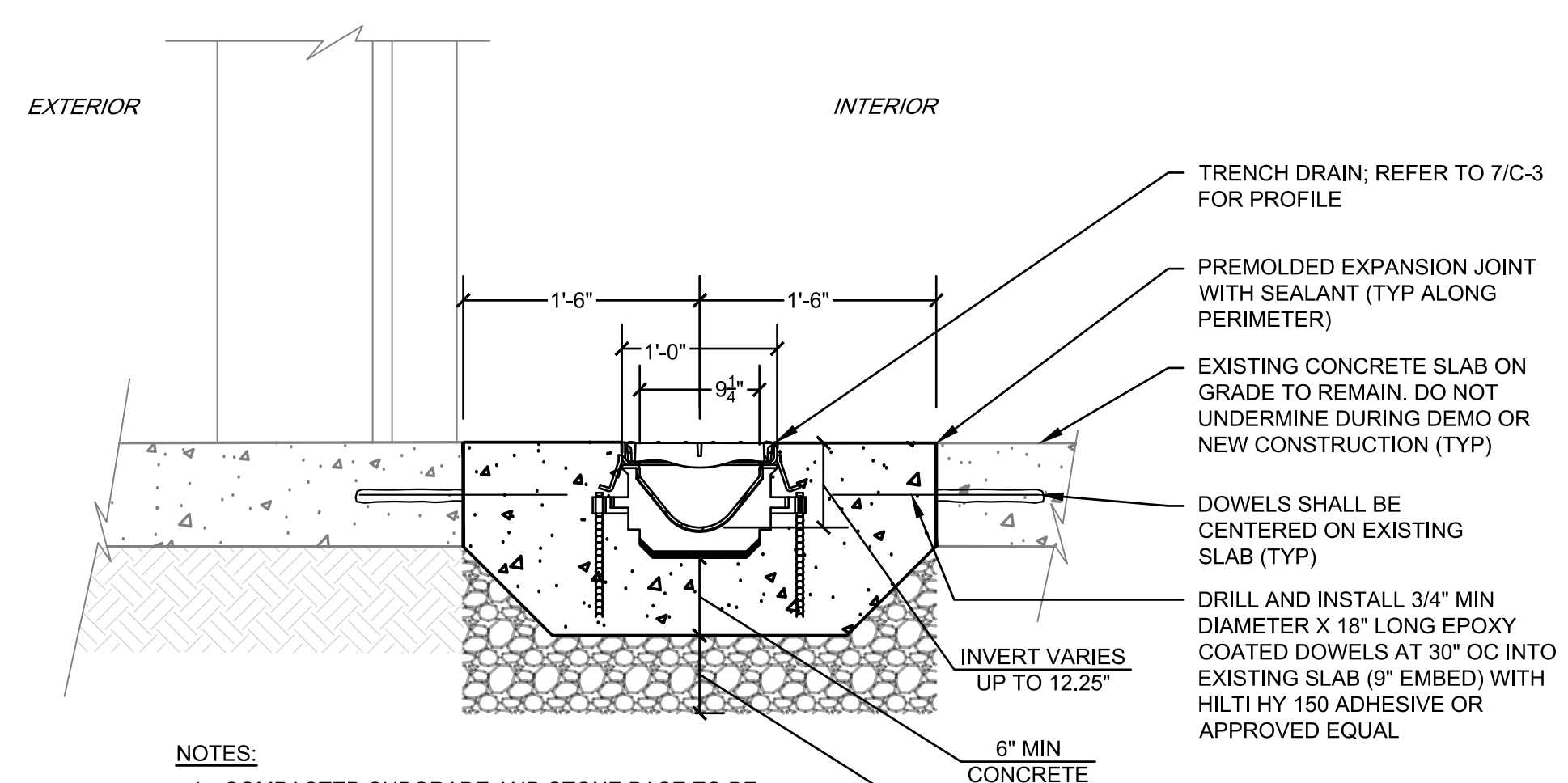
7 ENGINE BAY 1 DETAIL

C-3 NOT TO SCALE

CONSTRUCTION KEY NOTES	
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EXISTING



PROPOSED

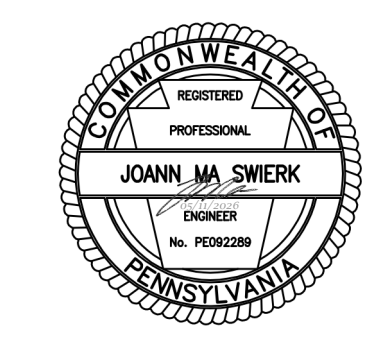
- NOTES:**
1. COMPACTED SUBGRADE AND STONE BASE TO BE INSPECTED BY OFFICE OF TOWNSHIP ENGINEER.

NOTES:

1. PROVIDE ASSEMBLY WITH APPURTENANCES NEEDED FOR A COMPLETE TRENCH DRAIN SYSTEM FOR INSTALLATION AND POSITIVE DRAINAGE, INCLUDING BUT NOT LIMITED TO:
 - 1.1. TRENCH DRAIN SHALL BE ZURN Z882 PERMA-TRENCH HDPE 12" DRAIN SYSTEM OR APPROVED EQUAL.
 - 1.2. ENTIRE TRENCH ASSEMBLY, INCLUDING GRATES, SHALL BE H-20 RATED.
 - 1.3. REFER TO PROFILE FOR TRENCH NUMBER.
 - 1.4. CLOSED END CAP AT EACH END OF SYSTEM.
 - 1.5. BOTTOM OUTLET.
 - 1.6. GRATE SHALL BE:
 - 1.6.1. BASE BID: ZURN P12-GDE-USA GALVANIZED DUCTILE IRON 12" WIDE SLOTTED GRATE
 - 1.6.2. ALTERNATE: ZURN P12-BDE-USA BLACK ACID RESISTANT EPOXY COATED DUCTILE IRON 12" WIDE DOMESTIC SLOTTED GRATE
2. COMPLY WITH MANUFACTURERS INSTRUCTIONS, INCLUDING BUT NOT LIMITED TO:
 - 2.1. COORDINATE BOTTOM OUTLET WITH THE EXISTING DRAINAGE PIPE. MODIFY DRAINAGE PIPE AS REQUIRED FOR WATERTIGHT CONNECTION.
 - 2.2. BEGIN INSTALLATION AT THE OUTLET TO SET THE FIRST CHANNEL (DEEPEST SECTION), THEN WORK UPSTREAM TO EACH SHALLOWER END.
 - 2.3. SET THE TOP EDGE OF THE DRAIN 1/16" BELOW THE FINISHED FLOOR ELEVATION.
 - 2.4. FIELD VERIFY THE TRENCH DRAIN IS AT THE CORRECTION LOCATION AND ELEVATION PRIOR TO CONCRETE PLACEMENT.
 - 2.5. INSTALL DOWELS ALONG PERIMETER AGAINST EXISTING CONCRETE. THEN, PLACE PREFORMED EXPANSION JOINTS ALONG PERIMETER AGAINST EXISTING CONCRETE WITH CUTOUT FOR DOWELS.
 - 2.6. PLACE CONCRETE. CONCRETE SHALL BE HIGH-EARLY STRENGTH (PENNDOT CONCRETE HES), AIR-ENTRAINED WITH COMPRESSIVE STRENGTH OF 3,000 PSI (MIN) IN 3 DAYS. THE OBJECTIVE IS TO MINIMIZE THE DOWNTIME OF THE TRAFFIC AREA TO RESUME NORMAL OPERATIONS WITHIN 3 TO 4 CALENDAR DAYS WHEN CONCRETE HAS REACHED AT LEAST 3,500 PSI. TOOL CONTROL JOINTS.
 - 2.7. INSTALL GRATES. PROTECT AREA DURING CURING.
 - 2.8. INSTALL SEALANT.
 - 2.9. REMOVE TEMPORARY MEASURES AND CLEAN AREA.

8 TRENCH DETAIL

C-3 NOT TO SCALE



ENGINE ROOM REPAIRS	
GLADWYNE FIRE COMPANY APRON & ENGINE ROOM FLOOR REPAIRS	
1044 BLACK ROCK ROAD GLADWYNE, PENNSYLVANIA 19035	
TOWNSHIP OF LOWER MERION OFFICE OF THE TOWNSHIP ENGINEER	
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DATE: 2026-05-11	SCALE: AS NOTED
DRAWN BY: ZAP	APPROVED BY: JM
SHEET: 3 OF 3	DRAWING NO.: C-3