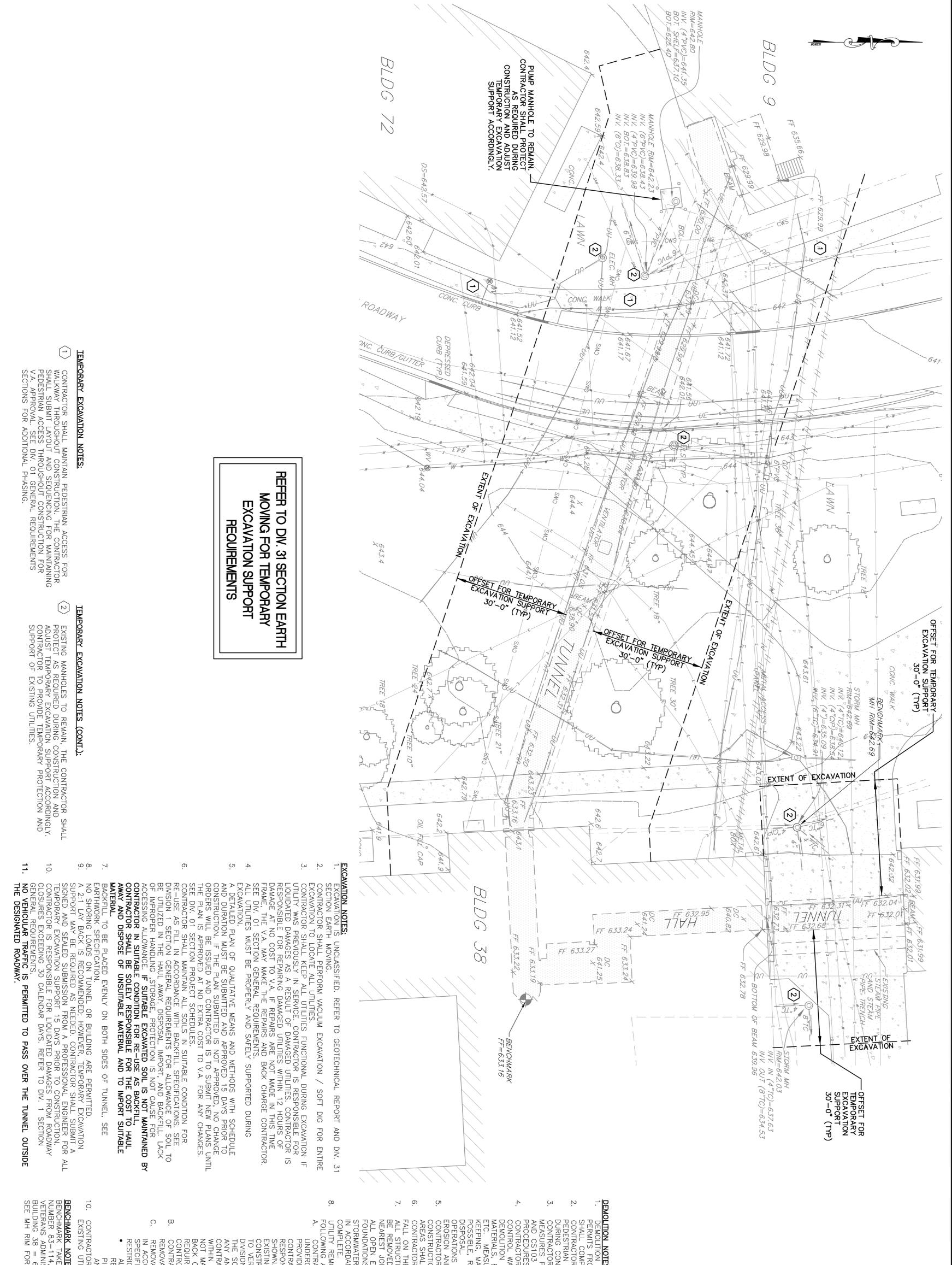


Revision	Date

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Drawing Title EXCAVATION AND TEMPORARY EXCAVATION SUPPORT PLAN	Project Title REPAIR STRUCTURAL TUNNEL JOINTS
Location COATESVILLE	Building Number 9 - 38 - 59
Date 07/17/2009	Drawing Number CD102
Checked PKF / PKF	Design PKF
Date 07/17/2009	Date Aug 6 2 31

Office of Construction and Facilities Management 	Project Number 542-13-04
Building Number 9 - 38 - 59	Scale 1" = 10'-0"



REFER TO DIV. 31 SECTION EARTH MOVING FOR TEMPORARY EXCAVATION SUPPORT REQUIREMENTS

TEMPORARY EXCAVATION NOTES:

1. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS FOR WALKWAY THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT LAYOUT AND SEQUENCING FOR MAINTAINING PEDESTRIAN ACCESS THROUGHOUT CONSTRUCTION FOR V.A. APPROVAL. SEE DIV. 01 GENERAL REQUIREMENTS SECTIONS FOR ADDITIONAL PHASING.

TEMPORARY EXCAVATION NOTES (CONT.):

2. EXISTING MANHOLES TO REMAIN. THE CONTRACTOR SHALL PROTECT AS REQUIRED DURING CONSTRUCTION AND ADJUST TEMPORARY EXCAVATION SUPPORT ACCORDINGLY. CONTRACTOR TO PROVIDE TEMPORARY PROTECTION AND SUPPORT OF EXISTING UTILITIES.

EXCAVATION NOTES:

1. EXCAVATION IS UNCLASSIFIED. REFER TO GEOTECHNICAL REPORT AND DIV. 31 SECTION EARTH MOVING.

2. CONTRACTOR SHALL PERFORM VACUUM EXCAVATION / SOFT DIG FOR ENTIRE EXCAVATION TO LOCATE ALL UTILITIES.

3. CONTRACTOR SHALL KEEP ALL UTILITIES FUNCTIONAL DURING EXCAVATION IF UTILITY WAS PREVIOUSLY IN SERVICE. CONTRACTOR IS RESPONSIBLE FOR RELOCATED DAMAGES AS A RESULT OF DAMAGED UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPAIRS AND COSTS TO V.A. IF REPAIRS ARE NOT MADE IN THIS TIME FRAME. THE V.A. MAY MAKE THE REPAIRS AND BACK CHARGE CONTRACTOR. SEE DIV. 01 SECTION GENERAL REQUIREMENTS.

4. ALL UTILITIES MUST BE PROPERLY AND SAFELY SUPPORTED DURING EXCAVATION.

5. A DETAILED PLAN OF QUALITATIVE MEANS AND METHODS WITH SCHEDULE AND DURATION MUST BE SUBMITTED AND APPROVED 15 DAYS PRIOR TO CONSTRUCTION. IF THE PLAN SUBMITTED IS NOT APPROVED, NO CHANGE ORDERS WILL BE ISSUED AND CONTRACTOR IS TO SUBMIT NEW PLANS UNTIL THE PLAN IS APPROVED AT NO EXTRA COST TO V.A. FOR ANY CHANGES.

6. SEE DIV. 01 SECTION PROJECT SCHEDULES. SUITABLE CONDITION FOR REUSE OF EXISTING UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH BACKFILL SPECIFICATIONS. SEE DIVISION 1 SECTION GENERAL REQUIREMENTS FOR ALLOWANCE OF SOIL TO BE UTILIZED IN THE HALL AWAY, DISPOSAL, IMPORT, AND BACKFILL. LACK OF IMPROPER HANDLING, STORAGE, PROTECTION IS NOT CAUSE FOR ACCESSING ALLOWANCE. IF SUITABLE EXCAVATED SOIL IS NOT MAINTAINED BY CONTRACTOR IN SUITABLE CONDITION FOR RE-USE AS BACKFILL, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COST TO HAUL AWAY AND DISPOSE OF UNSUITABLE MATERIAL AND TO IMPORT SUITABLE MATERIAL.

7. BACKFILL TO BE PLACED EVENLY ON BOTH SIDES OF TUNNEL. SEE EARTHWORK SPECIFICATION. TUNNEL OR BUILDING ARE PERMITTED.

8. A 2" DRAINAGE BACKUP IS REQUIRED. HOWEVER, TEMPORARY EXCAVATION SUPPORT MAY BE REQUIRED AS NEEDED. CONTRACTOR SHALL SUBMIT A SIGNED AND SEALED SUBMISSION FROM A PROFESSIONAL ENGINEER FOR ALL TEMPORARY EXCAVATION SUPPORT 15 DAYS PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR LIQUIDATED DAMAGES FROM ROADWAY CLOSURES EXCEEDING 30 CALENDAR DAYS. REFER TO DIV. 1 SECTION GENERAL REQUIREMENTS.

11. NO VEHICULAR TRAFFIC IS PERMITTED TO PASS OVER THE TUNNEL OUTSIDE THE DESIGNATED ROADWAY.

DEMOLITION NOTES:

1. DEMOLITION WILL BEGIN UPON RECEIPT OF ALL NECESSARY APPROVALS AND PERMITS FROM ALL APPLICABLE GOVERNMENTAL AGENCIES. ALL WORK SHALL COMPLY WITH THE APPLICABLE FEDERAL, STATE AND LOCAL CODES.

2. CONTRACTOR SHALL ENSURE THAT THE AREAS FOR BOTH VEHICULAR AND PEDESTRIAN TRAFFIC ARE SAFE, CLEAN AND ACCESSIBLE AT ALL TIMES.

3. CONTRACTOR IS RESPONSIBLE FOR UTILIZING APPLICABLE EROSION CONTROL MEASURES PRIOR TO AND DURING DEMOLITION. SEE SHEET CS101, CS102, AND CS103 OF THIS SET FOR EROSION AND SEDIMENT CONTROL PROCEDURES.

4. CONTRACTOR SHALL ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS THAT COULD ADVERSELY IMPACT WATER QUALITY. DEMOLITION WASTES INCLUDE, BUT ARE NOT LIMITED TO, EXCESS SOIL, MATERIALS, BUILDING MATERIAL, CONCRETE WASTE WATER, SANITARY WASTES, ETC. MEASURES SHOULD BE PLANNED AND IMPLEMENTED FOR HOUSE KEEPING, MATERIAL MANAGEMENT AND LITTER CONTROL. WHEREVER POSSIBLE, RECYCLING OF EXCESS MATERIALS IS PREFERRED. DEMOLITION OPERATIONS SHOULD BE CONDUCTED IN A MANNER THAT MINIMIZES EROSION AND SEDIMENT CONTROL PLAN.

5. CONTRACTOR SHALL USE CHAIN LINK FENCING DURING DEMOLITION AND CONSTRUCTION TO ENSURE THE SAFETY OF THE SURROUNDING PUBLIC. ALL AREAS SHALL BE FENCED IN.

6. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY AND ALL DEBRIS THAT MAY FALL ON THE ROADWAY AND/OR MAY BE TRACKED ONTO THE ROADWAY. ALL STRUCTURES, PAVEMENT, SUBBASE AND MISCELLANEOUS ITEMS SHALL BE REMOVED IN THEIR ENTIRETY. SIDEWALKS ARE TO BE REMOVED TO THE NEAREST JOINT AND BITUMINOUS PAVEMENT DEMOLITION TO SOUND MATERIAL.

7. ALL OPEN EXCAVATION AS A RESULT OF DEMOLITION WORK (I.E. FOUNDATIONS, BASEMENTS, TRENCHES, MANHOLES, INLETS, CLEANOUTS, AND STORMWATER PIPING) SHALL BE BACKFILLED TO SURROUNDING GRADE LEVEL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AFTER DEMOLITION IS COMPLETE.

8. UTILITY REMOVALS/ABANDONMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

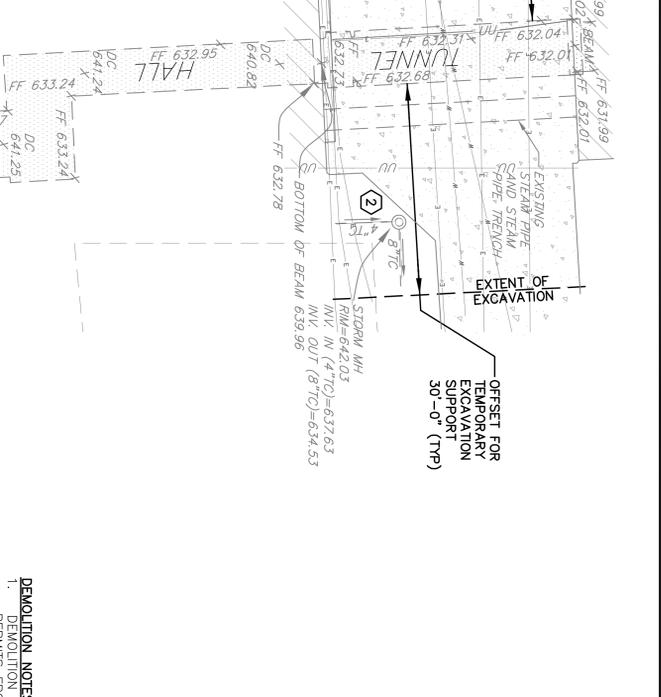
A. CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND TAKE WHATEVER STEPS NECESSARY TO PROVIDE FOR THEIR PROTECTION. UTILITY LOCATIONS SHOWN FOR CONTRACTOR'S CONVENIENCE ONLY. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS OF UTILITIES SHOWN OR NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS PRIOR TO ANY EXCAVATION OR FUTURE CONSTRUCTION. CONTRACTOR SHALL USE A UTILITY LOCATOR SERVICE TO VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES. SEE DIVISION 31, EARTHMOVING OF UTILITIES FOR DETAILS. IT SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR TO REPAIR AND REPLACE ANY AND ALL DAMAGE MADE TO UTILITIES BY CONTRACTOR.

B. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL AFFECTED UTILITIES AND OBTAINING PERMISSION FOR ANY WORK. CONTRACTOR SHALL NOT MAKE THE REPAIRS AND BACK CHARGE CONTRACTOR. SEE DIV. 01 SECTION GENERAL REQUIREMENTS AND DIV. 01 SECTION TEMPORARY ENVIRONMENTAL CONTROLS.

C. CONTRACTOR TO NOTIFY APPROPRIATE UTILITY COMPANY PRIOR TO REMOVAL/ABANDONMENT OF SUCH UTILITY.

D. REMOVAL/ABANDONMENT OF PRIVATE UTILITY COMPANY SERVICES TO BE IN ACCORDANCE WITH EACH RESPECTIVE UTILITY COMPANY STANDARD SPECIFICATIONS OR THE FOLLOWING PROCEDURE, WHICHEVER IS MORE RESTRICTIVE.

- ALL PIPES TO BE ABANDONED SHALL EITHER BE EXCAVATED, REMOVED, AND THE TRENCH BACKFILLED PER SPECIFICATION OR PIPE SHALL BE COMPLETELY FILLED WITH FLOWABLE FILL/SAND AND COVERED TO PROVIDE TEMPORARY PROTECTION AND SUPPORT OF EXISTING UTILITIES.



10. CONTRACTOR SHALL PROVIDE TEMPORARY PROTECTION AND SUPPORT OF EXISTING UTILITIES.

BENCHMARK NOTE:

BENCHMARK TAKEN FROM A DRAWING TITLED "PLAN AND SECTIONS", PROJECT NUMBER 83-114, DRAWING 1 OF 2, DATED 7-8-1985, PREPARED FOR THE VETERANS ADMINISTRATION. BENCHMARK BEING FINISHED BASEMENT FLOOR OF BUILDING 38 = 633.16.

SEE WITH RIM FOR 2ND BENCHMARK.