

IDAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION PHASE 5 DAS PROJECT NO: 9279.50

WOODWARD RESOURCE CENTER
34 CEDAR ST,
WOODWARD, IA 50276



VICINITY MAP
1" = 300'

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WOODWARD RESOURCE CENTER
34 CEDAR ST.
WOODWARD, IA

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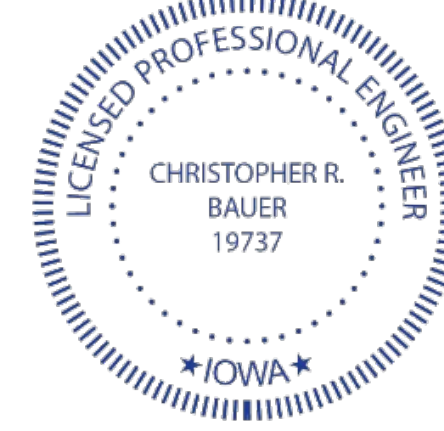
MECHANICAL ENGINEER


 I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.
 SIGNATURE: *John D. Baumhover* DATE: 4-24-2026
 PRINTED OR TYPED NAME: JOHN D. BAUMHOVER
 LICENSE NUMBER: 25737
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2028.
 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
 ALL "M" SHEETS


ELECTRICAL ENGINEER


 I HEREBY CERTIFY THAT THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND RESPONSIBLE CHARGE. I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.
 SIGNATURE: *Kevin J. Bruxvoort* DATE: 4-24-2026
 PRINTED OR TYPED NAME: KEVIN J. BRUXVOORT
 LICENSE NUMBER: 19927
 MY LICENSE RENEWAL DATE IS JUNE 30, 2027.
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CIVIL ENGINEER


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 SIGNATURE: *Chris Bauer* DATE: 4-24-2026
 PRINTED OR TYPED NAME: CHRISTOPHER R. BAUER
 LICENSE NUMBER: 19737
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027.
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 ALL "C" SHEETS

STRUCTURAL ENGINEER


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 SIGNATURE: *Matt Mettemeyer* DATE: 4-24-2026
 PRINTED OR TYPED NAME: MATTHEW A. METTEMEYER
 LICENSE NUMBER: 20396
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2028.
 PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
 ALL "S" SHEETS

A	B	C	D	E	F	G	H
<p>GENERAL NOTES: 1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP (PUBLIC OR PRIVATE) SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE IOWA STATEWIDE URBAN AND DESIGN AND SPECIFICATIONS (SDAS), UNLESS OTHERWISE NOTED ON THE DRAWINGS. 2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL AND STATE AGENCY CODES, STANDARDS AND SPECIFICATIONS. 3. ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SPECIFICALLY CALLED OUT, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION TO BE ALLOWED FOR THE COMPLETION OF THIS WORK. 4. WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY THE OWNERS REPRESENTATIVE. AT THE CONTRACTOR'S EXPENSE, WORK DONE CONTRARY TO THE INSTRUCTIONS OF THE OWNERS REPRESENTATIVE, WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID FOR. 5. STAGING LOCATION FOR CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER. 6. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT. 7. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES FROM THE APPLICABLE GOVERNING AUTHORITIES. 8. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES, ELEVATIONS, SETBACKS, AND EASEMENTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED. 9. IF DURING THE COURSE OF CONSTRUCTION THE CONTRACTOR FINDS ANY DISCREPANCIES OR CONFLICTS BETWEEN THE PROPOSED SITE IMPROVEMENTS INDICATED ON THE PLANS AND THE PHYSICAL CONDITIONS OF THE SITE, OR ANY ERRORS OR OMISSIONS WITHIN THE PLANS OR IN THE SITE LAYOUT AS PROVIDED BY THE ENGINEER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMMEDIATELY NOTIFY THE ENGINEER. UNTIL AUTHORIZED TO PROCEED, ANY WORK PERFORMED BY THE CONTRACTOR AFTER SUCH A DISCOVERY WILL BE AT THE CONTRACTOR'S SOLE RISK AND EXPENSE. 10. PROTECT ALL EXISTING FEATURES (INCLUDING BUT NOT LIMITED TO WALLS, TREES, LANDSCAPING, DRIVEWAYS, SIDEWALKS, CURBS, PAVEMENT, UTILITIES, ETC.) NOT SPECIFICALLY NOTED FOR REMOVAL. FEATURES NOT DESIGNATED FOR REMOVAL THAT ARE DAMAGED OR REMOVED RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER. 11. CONTRACTOR SHALL ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION. 12. CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. EXACT LOCATION, ELEVATION AND INVERTS OF ALL UTILITIES SERVICES AND CONNECTIONS MUST BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED. 13. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL BY CALLING 811 OR 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS. 14. CONTRACTOR SHALL SCHEDULE A UTILITY LOCATING SERVICE AND/OR NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION AND HORIZONTAL AND VERTICAL ELEVATION OF UNDERGROUND UTILITIES AND PROPOSED POINTS OF CONNECTION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. IF CONFLICTS ARE FOUND, NOTIFY THE ENGINEER. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING PUBLIC AND PRIVATE UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES MARKED PRIOR TO CONSTRUCTION. 15. NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS PRIOR TO EACH STAGE OF CONSTRUCTION. NOTIFY THE APPROPRIATE PUBLIC AND PRIVATE UTILITY OWNER A MINIMUM OF 48 HOURS PRIOR TO BEGINNING CONSTRUCTION ON ANY FACILITIES OWNED OR OPERATED BY THAT UTILITY. 16. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES/OWNERS REGARDING OUTAGES, RELOCATION, ADJUSTMENT, CONNECTIONS, OR TEMPORARY SUPPORT OF THEIR FACILITIES. COORDINATE ALL UTILITY OUTAGES WITH PROVIDER OF UTILITY A MINIMUM OF 12 BUSINESS DAYS IN ADVANCE. 17. THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. AT NO TIME WILL EITHER THE OWNER/OPERATOR OR THE ENGINEER TAKE RESPONSIBILITY FOR EITHER THE MEANS OF THE WORK OR THE SAFETY OF THE CONTRACTOR'S EMPLOYEES. 18. ALL OPEN EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE WITH REGULATORY REQUIREMENTS. 19. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION. ANY DAMAGE CAUSED BY A FAILURE TO MAINTAIN POSITIVE DRAINAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. 20. CONSTRUCTION ACTIVITIES ARE TO BE LIMITED TO THE EXISTING RIGHT-OF-WAY. TEMPORARY CONSTRUCTION EASEMENTS, OR LIMITS OF THE PROJECT AS INDICATED ON THE PLANS. IF ADDITIONAL AREAS ARE NEEDED FOR STAGING, STORAGE, ETC., IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN WRITTEN PERMISSION FROM THE PROPERTY OWNER(S). COPIES OF THE AGREEMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE PRIOR TO THE USE OF THE PROPERTY. 21. ALL EMERGENCY ACCESS LANES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE. CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES. 22. SITE CLEAN-UP TO BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC. WITHIN AND ADJACENT TO PROJECT LIMITS SHALL BE KEPT CLEAN AT ALL TIMES. ALL COSTS FOR CLEANING SHALL BE INCIDENTAL TO THE CONTRACT. 23. ALL INSPECTIONS REQUIRED FOR PUBLIC OR PRIVATE IMPROVEMENTS SHALL BE FACILITATED BY THE CONTRACTOR. 24. CONTACT THE OWNER FOR PROCEDURES FOR HANDLING CONTAMINATED SOILS IF LOCATED ON SITE. 25. PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE REVIEWED AND APPROVED BY THE OWNER AND ENGINEER OR THEIR REPRESENTATIVES). THE CONTRACTOR SHALL GUARANTEE THEIR WORK FOR A PERIOD OF 12 (TWELVE) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND SHALL BE HELD RESPONSIBLE FOR ANY DEFECTS IN MATERIAL OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE. 26. ALL TRAFFIC AND PEDESTRIAN CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION. 27. WHEN PERFORMING WORK WITHIN THE PUBLIC RIGHT OF WAY, CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLAN TO CITY ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO STARTING WORK. IF THE AUTHORITY HAVING JURISDICTION REQUIRES ADDITIONAL TRAFFIC CONTROLS, IT SHALL BE INCIDENTAL TO THE PROJECT. 28. ALL PROPERTY MARKERS AND SURVEY REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR. 29. REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA. 30. ALL CONSTRUCTION STAKING, LAYOUT, SCHEDULING, AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.</p>	<p>EROSION CONTROL NOTES: 1. USE ALL AVAILABLE MEANS TO MINIMIZE THE AMOUNT OF SOIL EROSION CAUSED BY THE WORK OF THE PROJECT. THIS INCLUDES RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DEVICES INDICATED. 2. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL OR STATE REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. 3. CONTROL DUST FROM ALL WORK AND STAGING AREAS. 4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AND FUNCTIONAL BEFORE THE SITE IS OTHERWISE DISTURBED. THEY SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SITE STABILIZATION HAS BEEN ACHIEVED. 5. STABILIZE ALL DISTURBED AREAS IMMEDIATELY IF THEY REMAIN INACTIVE FOR 14 DAYS OR MORE WITH A TEMPORARY SEED MIX PER SUDAS SPECIFICATION 9010. TEMPORARY SEEDING SHALL BE INCIDENTAL TO THE PROJECT. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, PERIODIC CHECKING AND REINSTALLATION/MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES. EROSION CONTROL DEVICES SHALL BE CHECKED ONCE PER WEEK AND AFTER EACH RAINFALL TO ENSURE WORKING ORDER.</p> <p>SURFACE RESTORATION: 1. ALL DISTURBED AREAS NOT PAVED OR HARD SURFACE ON THE SITE SHALL RECEIVE 6 INCHES OF TOPSOIL. SCARIFY AREAS TO RECEIVE TOPSOIL TO A DEPTH OF 6 INCHES. REMOVE ALL STONES, WOOD, AND OTHER DEBRIS LARGER THAN 3 INCHES FROM AREAS TO RECEIVE TOPSOIL. DO NOT COMPACT TOPSOIL. 2. ALL DISTURBED AREAS SHALL BE SEEDED, FERTILIZED, AND MULCHED IN ACCORDANCE WITH SUDAS SPECIFICATION SECTION 9010. SPRING SEEDING SHALL BE COMPLETED BETWEEN MARCH 1 AND MAY 31. FALL SEEDING SHALL BE COMPLETED BETWEEN AUGUST 10 AND SEPTEMBER 30. 3. CONTRACTOR TO SUBMIT PROPOSED SEED MIX, FERTILIZER, AND MULCH PRODUCTS FOR OWNER APPROVAL PRIOR TO APPLICATION. 4. ALL AREAS DISTURBED BY CONSTRUCTION, NOT DESIGNATED AS PLANTED, TO BE SEEDED USING SUDAS TYPE 1 SEED MIX. 5. ALL SEEDED AREAS SHALL BE MULCHED WITH HYDRAULIC MULCHING PER SUDAS SPECIFICATION SECTION 9010.2.07.B. 6. MAINTAIN ANY SEEDED AREAS UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN ESTABLISHED. RESEED ANY AREAS AS NECESSARY DURING MAINTENANCE PERIOD.</p> <p>PAVEMENT GENERAL NOTES: 1. SEE STRUCTURAL PLANS FOR ANY SPECIAL EXCAVATION AND FILL REQUIREMENTS WITHIN THE BUILDING FOOTPRINT. 2. ALL DIMENSIONS AND CURB RADII SHOWN ARE MEASURED FROM BACK OF CURB TO BACK OF CURB/EDGE OF PAVEMENT TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. 3. ALL SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY ANY AREAS OF EXISTING OR PROPOSED PAVEMENTS THAT HAVE POTENTIAL TO POND WATER AND MAKE ANY ADJUSTMENTS NECESSARY TO ENSURE THAT WATER WILL POSITELY DRAIN ACROSS THE PAVING OR OVERLAY. 4. ALL SIDEWALKS SHALL BE CONSTRUCTED PER SUDAS SECTION 7030. 5. ALL PROPOSED PCC PAVEMENT SHALL BE PROTECTED ACCORDING TO SUDAS SECTION 7010-3.04.</p> <p>PCC JOINTING NOTES: 1. JOINTING SHOULD CONFORM TO SUDAS SECTION 7010. 2. ALL JOINT TYPES REFERRED TO IN THE FOLLOWING NOTES OR ELSEWHERE ON THE PLANS ARE DETAILED IN IOWA SUDAS STANDARD DETAIL 7010.101. 3. WHERE ACCESS DRIVES INTERSECT EACH OTHER OR WHERE ACCESS DRIVES INTERSECT PARKING AREAS, THE JOINTING PLAN SHALL BE CONSTRUCTED PER IOWA SUDAS STANDARD DETAIL 7010.904. 4. PROVIDE CONTROL JOINTS 14 FEET O/C MAXIMUM (7 INCH PAVEMENT) OR 12 FEET O/C MAXIMUM (6 INCH PAVEMENT) UNLESS NOTED OTHERWISE. 5. INSTALL TYPE "K" OR TYPE "L" JOINTS AT 14 FEET O/C MAXIMUM (7 INCH PAVEMENT) OR 12 FEET O/C MAXIMUM (6 INCH PAVEMENT) UNLESS NOTED OTHERWISE. 6. PAVEMENT LONGITUDINAL JOINTS SHALL BE TYPE "KT-1" OR "L-1", TYP. 7. PAVEMENT TRANSVERSE JOINTS SHALL BE TYPE "C", TYP. TRANSVERSE JOINTS IN 5 INCH THICK SIDEWALK PAVING SHOULD BE SPACED TO MATCH THE WIDTH OF THE SIDEWALK NOT TO EXCEED 5 FEET. 8. ALL JOINTS, INCLUDING "KT" OR "L" TYPE JOINTS, SHALL BE SEALED PER IOWA SUDAS STANDARD DETAIL 7010.101 DETAIL "A" AND IOWA SUDAS STANDARD SPECIFICATION SECTION 7010-3.02 K. 9. INSTALL 1 INCH EXPANSION JOINT AT ALL LOCATIONS WHERE PAVEMENT ABUTS A BUILDING, STRUCTURE, STOOP, OR BACK-OF-CURB. 10. ALL EXPANSION JOINTS SHALL BE SEALED WITH A PEDESTRIAN RATED, SELF-LEVELING, ELASTOMERIC POLYURETHANE SEALANT, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUBMITTAL OF ALL SEALANTS TO ENGINEER FOR REVIEW. 11. CONTRACTOR TO SUBMIT JOINTING PLAN TO ENGINEER FOR APPROVAL, PRIOR TO PAVING. 12. SIDEWALK REPLACEMENTS WHICH ARE ADJACENT TO STRUCTURAL STOODS OR TUNNEL CAPS SHALL BE TIED TO EXISTING FROST FREE STRUCTURES WITH 24" LONG #4 TIE BARS EMBEDDED A MINIMUM OF 9" INTO THE EXISTING STRUCTURE TO PREVENT SETTLEMENT AND FROST HEAVE. 13. SAW CUTTING TO BE COMPLETED A MAXIMUM OF 24 HOURS FROM CONCRETE PLACEMENT. RANDOM CRACKING CAUSED BY DELAYED SAW CUTTING MAY REQUIRE REMOVAL AND REPLACEMENT. 14. PAVEMENT REINFORCING STEEL: PAVING REINFORCEMENT SHALL BE ASTM A615 GRADE 60 AND SHALL HAVE A PROTECTIVE COATING OF EPOXY APPLIED BY ELECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775.</p>	<p>WATER SERVICE PIPE WITHIN TEN (10) FEET OF BUILDING AND TUNNEL TERMINATION POINTS SHALL BE DUCTILE IRON PIPE (DIP); SHALL COMPLY WITH AWWA C151 SPECIAL THICKNESS CLASS 52. WATER SERVICE PIPE MATERIAL LESS THAN 4" DIAMETER: COPPER PIPE COMPLYING WITH ASTM B 88, WALL THICKNESS TYPE K. JOINT TYPE: SHALL BE PUSH-ON JOINT TYPE ACCORDING TO AWWA C900 UNLESS OTHERWISE SPECIFIED. ALL WATER SERVICE JOINTS WITHIN THIRTY (30) FEET OF TUNNEL OR BUILDING TERMINATION POINTS OR WHICH ARE CAPPED FOR FUTURE CONNECTION SHALL HAVE RESTRAINED MECHANICAL OR INTEGRAL RESTRAINED JOINTS. FITTINGS: SHALL COMPLY WITH AWWA C110 OR AWWA C153. MECHANICAL JOINTS AND GASKETS SHALL COMPLY WITH AWWA C111. THRUST BLOCKS: SHALL USE IOWA DOT CLASS C CONCRETE. SHALL BE USED FOR ALL PIPES ON THE SITE AND SHALL COMPLY WITH IOWA SUDAS FIGURE 5010.101. INSTALL DEAD END ALTERNATE METHOD THRUST BLOCKS APPROXIMATELY FIVE (5) FEET OUTSIDE OF ALL BUILDING AND TUNNEL TERMINATION POINTS AND AT LOCATIONS WHERE FUTURE CONNECTIONS WILL BE MADE. INSTALL THRUST BLOCKS ON EXISTING MAINS OR SERVICES WHERE ADJUSTMENTS ARE BEING MADE WHICH REQUIRE NEW THRUST BLOCKS TO BE INSTALLED. TRACER SYSTEM: SHALL COMPLY WITH IOWA SUDAS FIGURE 5010.102. TRACER WIRE, GROUND ROD, GROUND-ROD CLAMP, SPLICE KIT AND TRACER WIRE STATION SHALL COMPLY WITH IOWA SUDAS SECTION 5010. CONTRACTOR SHALL COMPLETE FINAL INSPECTION OF THE TRACER SYSTEM TO BE WITNESSED BY THE CONSTRUCTION MANAGER AT THE COMPLETION OF THE PROJECT TO VERIFY ELECTRICAL CONTINUITY OF THE SYSTEM. WATER MAINS AND WATER SERVICES SHALL BE PRESSURE TESTED AND DISINFECTED ACCORDING TO SUDAS SECTION 5030 SPECIFICATIONS AND JURISDICTION REQUIREMENTS. E. TRENCH EXCAVATION AND BACKFILL BEDDING AND BACKFILL MATERIAL: SHALL COMPLY WITH IOWA SUDAS SECTION 3010. BACKFILL COMPACTION REQUIREMENTS: 1. UNDER AND WITHIN FIVE (5) FEET OF PAVEMENT, SIDEWALKS, GRANULAR SURFACING, OR OTHER SURFACE IMPROVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. 2. UNDER LANDSCAPING AND LAWN AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM STANDARD PROCTOR DENSITY. COMPACTION TESTING SHALL BE COMPLETED ON A FREQUENCY OF ONE TEST PER 100 LINEAR FEET AT APPROXIMATELY EVERY OTHER 8" LIFT OR AT ALTERNATIVE LOCATIONS AND FREQUENCIES AS RECOMMENDED BY TESTING AGENCY. COMPACTION TESTING TO BE DONE BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK WITH CONSTRUCTION MANAGER. CONTRACTOR IS RESPONSIBLE FOR ALL DEWATERING WHICH MAYBE REQUIRED INCIDENTAL TO THE PIPE INSTALLATION.</p>	<p>CONTRACTOR SHALL SUBMIT SHOP DRAWING SUBMITTALS FOR ALL PROPOSED PRODUCTS. A. CONCRETE PAVING: CONCRETE: MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS, SECTIONS 2301.03 THROUGH 2301.06, 2301.13 AND 2301.28 FOR AIR-ENTRAINED TYPE C-4 MIX WITH TYPE I CEMENT FLY ASH (CONTRACTOR'S OPTION AS ADDITIONAL PAYMENT DUE TO FLY ASH SHORTAGE WILL NOT BE PAID BY OWNER) - ASTM C618, TYPE C, NOT TO EXCEED 15% OF CEMENTITIOUS MATERIAL. COARSE AGGREGATE DURABILITY SHALL BE CLASS III, 3/4" MAX. COMPRESSIVE STRENGTH: 2800 PSI @ 7 DAYS AND 4000 PSI @ 28 DAYS SLUMP: 3" ± 1". AIR CONTENT: 7.0% ± 1.0% WATER/CEMENT RATIO: NOT TO EXCEED 0.53 FINISH: MATCH EXISTING FINISH FOR ROADWAY AND SIDEWALK PATCHING. TESTING - ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 C.Y. OR PORTION THEREOF, OF CONCRETE POURED PER WORK LOCATION. CONCRETE TESTING TO BE DONE AND PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL REQUIRED TESTING AND GEOTECHNICAL WORK WITH CONSTRUCTION MANAGER. SURFACE CURING: CONTRACTOR SHALL APPLY WHITE PIGMENT LIQUID CURING COMPOUND IN A FINE SPRAY TO FORM CONTINUOUS UNIFORM FILM AFTER FINISHING AND SURFACE MOISTURE HAS DISAPPEARED, OR WITHIN 30 MINUTES AFTER FORMS ARE REQUIRED. SUBMIT CONCRETE MIX DESIGN FOR APPROVAL. COLD WEATHER CONCRETE: WHEN THE ATMOSPHERIC AIR TEMPERATURE MAY BE EXPECTED TO DROP BELOW 40°F AT THE TIME CONCRETE IS DELIVERED TO THE WORK SITE, DURING PLACEMENT, OR AT ANY TIME DURING CURING PERIOD, CONCRETE SHALL BE MIXED, PLACED, AND PROTECTED IN ACCORDANCE WITH ACI STANDARD 306, "RECOMMENDED PRACTICE FOR COLD WEATHER CONCRETE." IT IS THE OWNERS PREFERENCE TO AVOID COLD WEATHER CONCRETE FOR THIS PROJECT AND PROVIDE TEMPORARY GRANULAR SURFACING FOR SIDEWALK AND PAVING AS REQUIRED. SIDEWALK REPLACEMENTS WHICH ARE ADJACENT TO STRUCTURAL STOODS OR TUNNEL CAPS SHALL BE TIED TO EXISTING FROST FREE STRUCTURES WITH 24" LONG #4 TIE BARS EMBEDDED A MINIMUM OF 9" INTO THE EXISTING STRUCTURE TO PREVENT SETTLEMENT AND FROST HEAVE. SAW CUTTING TO BE COMPLETED A MAXIMUM OF 24 HOURS FROM CONCRETE PLACEMENT. RANDOM CRACKING CAUSED BY DELAYED SAW CUTTING MAY REQUIRE REMOVAL AND REPLACEMENT. B. PAVEMENT REINFORCING STEEL: PAVING REINFORCEMENT SHALL BE ASTM A615 GRADE 60 AND SHALL HAVE A PROTECTIVE COATING OF EPOXY APPLIED BY ELECTROSTATIC SPRAY METHOD IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A775. C. GRANULAR SURFACING MATERIALS AND INSTALLATION TO MEET IDOT SPECIFICATIONS 4120, CLASS A ROADSTONE. D. WATER MAIN, WATER SERVICES, AND APPURTENANCES ALL WATER MAINS AND WATER SERVICES SHALL BE INSTALLED TO A MINIMUM DEPTH OF COVER OF FIVE (5) FEET. WATER MAIN AND WATER SERVICE PIPE MATERIAL: SHALL COMPLY WITH AWWA C900 POLYVINYL CHLORIDE (PVC) PIPE.</p>	<p>SITE WORK TECHNICAL SPECIFICATIONS THE MOST RECENT EDITION OF THE IOWA STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SDAS) AND IOWA DOT SPECIFICATIONS SHALL APPLY TO ALL SITE WORK PERFORMED ON THIS PROJECT EXCEPT AS MODIFIED HEREIN. MEASUREMENT AND PAYMENT SECTIONS AND ADDITIONAL COMPENSATION REFERENCES SHALL NOT APPLY TO THIS PROJECT AS IT IS A LUMP SUM BID. CONTRACTOR SHALL SUBMIT SHOP DRAWING SUBMITTALS FOR ALL PROPOSED PRODUCTS. A. CONCRETE PAVING: CONCRETE: MATERIALS AND MIXING FOR ALL CONCRETE WORK, UNLESS OTHERWISE SPECIFIED, SHALL CONFORM TO IOWA DOT SPECIFICATIONS, SECTIONS 2301.03 THROUGH 2301.06, 2301.13 AND 2301.28 FOR AIR-ENTRAINED TYPE C-4 MIX WITH TYPE I CEMENT FLY ASH (CONTRACTOR'S OPTION AS ADDITIONAL PAYMENT DUE TO FLY ASH SHORTAGE WILL NOT BE PAID BY OWNER) - ASTM C618, TYPE C, NOT TO EXCEED 15% OF CEMENTITIOUS MATERIAL. COARSE AGGREGATE DURABILITY SHALL BE CLASS III, 3/4" MAX. COMPRESSIVE STRENGTH: 2800 PSI @ 7 DAYS AND 4000 PSI @ 28 DAYS SLUMP: 3" ± 1". AIR CONTENT: 7.0% ± 1.0% WATER/CEMENT RATIO: NOT TO EXCEED 0.53 FINISH: MATCH EXISTING FINISH FOR ROADWAY AND SIDEWALK PATCHING. TESTING - ONE SET OF TEST CYLINDERS REQUIRED FOR EACH 100 C.Y. 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WATER MAIN AND WATER SERVICE PIPE MATERIAL: SHALL COMPLY WITH AWWA C900 POLYVINYL CHLORIDE (PVC) PIPE.</p>	<p>CONSTRUCTION NOTES 00-C001</p>	

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APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	---

LEGEND	
GENERAL SITE	
PLAN MARK	DESCRIPTION
---	ACTIVE WATER LINE
---	ABANDONED WATER LINE
---	PROPOSED WATER LINE

QUANTITY NOTE:
 APPROXIMATE QUANTITIES ARE PROVIDED FOR
 REFERENCE ONLY AND CONTRACTORS SHALL VERIFY
 ALL QUANTITIES. PAYMENT FOR ADDITIONAL
 QUANTITIES WILL NOT BE COMPLETED.

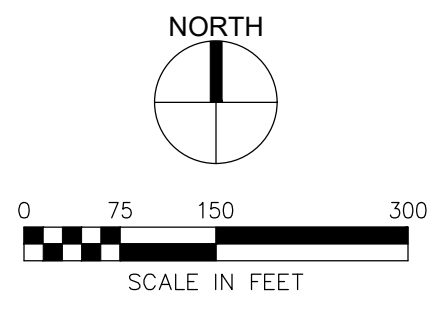
6" PCC PAVING: 170 SY
 7" PCC PAVING: 30 SY



**IJA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
 PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
 IJA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
 34 CEDAR ST. WOODWARD, IA 50276

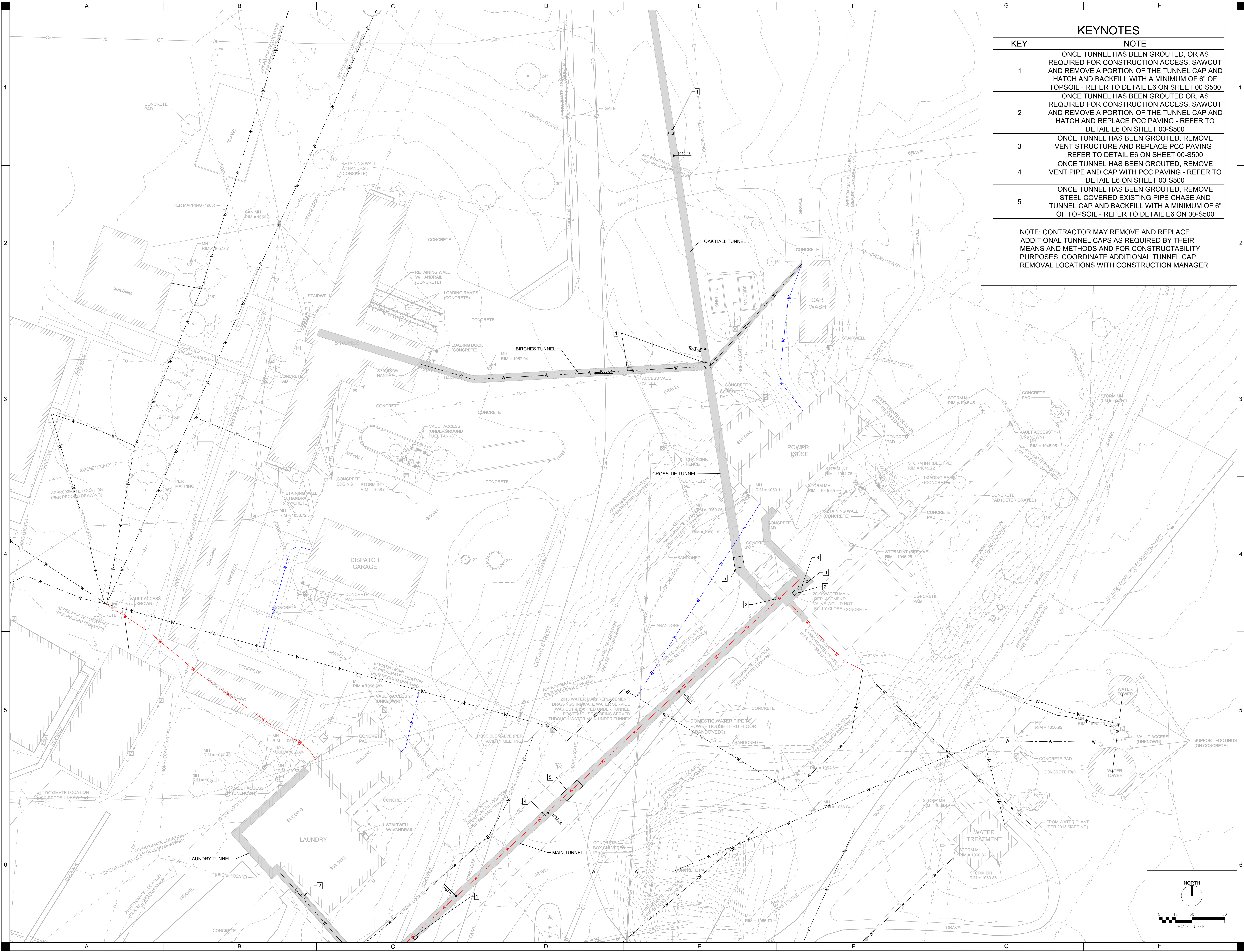
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APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2026
PROJECT NUMBER	2240007040
CLIENT PROJECT NUMBER	...



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KEYNOTES	
KEY	NOTE
1	ONCE TUNNEL HAS BEEN GROUTED, OR AS REQUIRED FOR CONSTRUCTION ACCESS, SAWCUT AND REMOVE A PORTION OF THE TUNNEL CAP AND HATCH AND BACKFILL WITH A MINIMUM OF 6" OF TOPSOIL - REFER TO DETAIL E6 ON SHEET 00-S500
2	ONCE TUNNEL HAS BEEN GROUTED OR, AS REQUIRED FOR CONSTRUCTION ACCESS, SAWCUT AND REMOVE A PORTION OF THE TUNNEL CAP AND HATCH AND REPLACE PCC PAVING - REFER TO DETAIL E6 ON SHEET 00-S500
3	ONCE TUNNEL HAS BEEN GROUTED, REMOVE VENT STRUCTURE AND REPLACE PCC PAVING - REFER TO DETAIL E6 ON SHEET 00-S500
4	ONCE TUNNEL HAS BEEN GROUTED, REMOVE VENT PIPE AND CAP WITH PCC PAVING - REFER TO DETAIL E6 ON SHEET 00-S500
5	ONCE TUNNEL HAS BEEN GROUTED, REMOVE STEEL COVERED EXISTING PIPE CHASE AND TUNNEL CAP AND BACKFILL WITH A MINIMUM OF 6" OF TOPSOIL - REFER TO DETAIL E6 ON 00-S500

NOTE: CONTRACTOR MAY REMOVE AND REPLACE ADDITIONAL TUNNEL CAPS AS REQUIRED BY THEIR MEANS AND METHODS AND FOR CONSTRUCTABILITY PURPOSES. COORDINATE ADDITIONAL TUNNEL CAP REMOVAL LOCATIONS WITH CONSTRUCTION MANAGER.



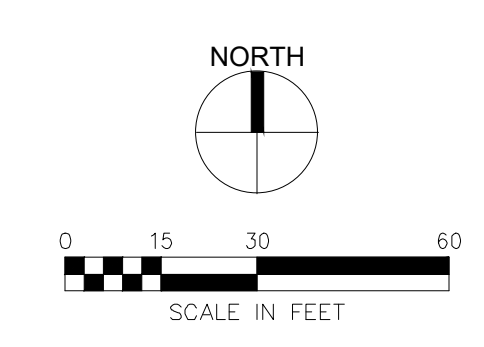
**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
1000 UNIVERSITY DRIVE, SUITE 200
34 CEDAR ST., WOODWARD, IA 50276

DRAWN BY	BDD
APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2025
PROJECT NUMBER	2240007940
CLIENT PROJECT NUMBER	

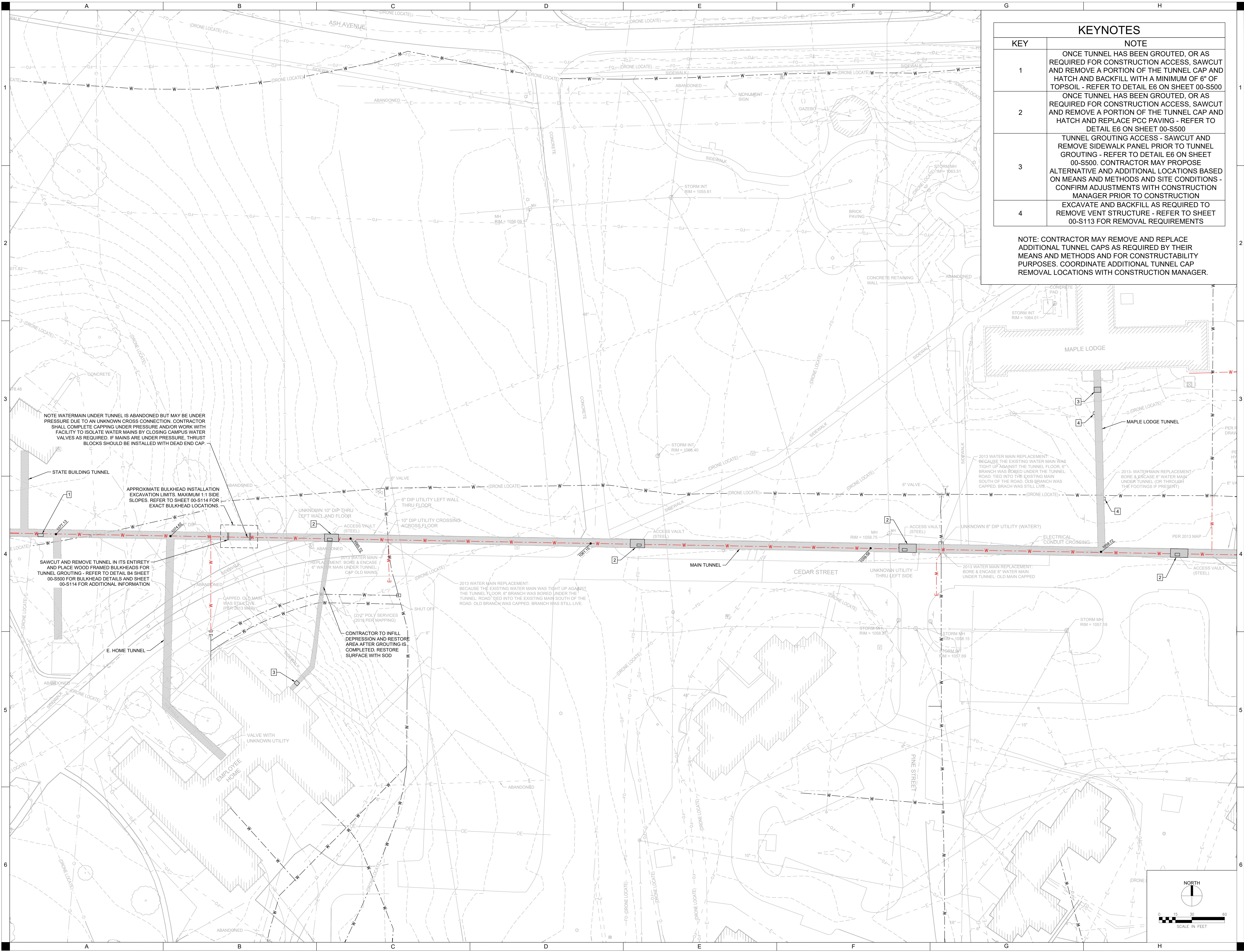
SITE PLAN

00-C103



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3	TUNNEL GROUTING ACCESS - SAWCUT AND REMOVE SIDEWALK PANEL PRIOR TO TUNNEL GROUTING - REFER TO DETAIL E6 ON SHEET 00-S500. CONTRACTOR MAY PROPOSE ALTERNATIVE AND ADDITIONAL LOCATIONS BASED ON MEANS AND METHODS AND SITE CONDITIONS - CONFIRM ADJUSTMENTS WITH CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION
4	EXCAVATE AND BACKFILL AS REQUIRED TO REMOVE VENT STRUCTURE - REFER TO SHEET 00-S113 FOR REMOVAL REQUIREMENTS

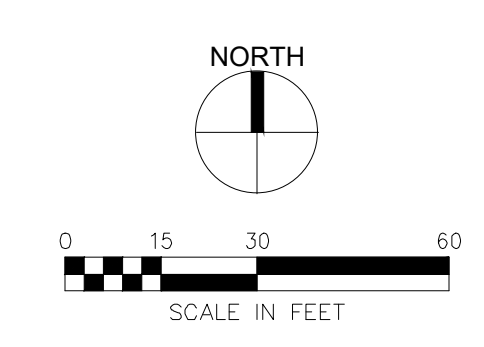
NOTE: CONTRACTOR MAY REMOVE AND REPLACE ADDITIONAL TUNNEL CAPS AS REQUIRED BY THEIR MEANS AND METHODS AND FOR CONSTRUCTABILITY PURPOSES. COORDINATE ADDITIONAL TUNNEL CAP REMOVAL LOCATIONS WITH CONSTRUCTION MANAGER.



**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF CAPITAL CONSTRUCTION
33 CEDAR ST., WOODWARD, IA 50276

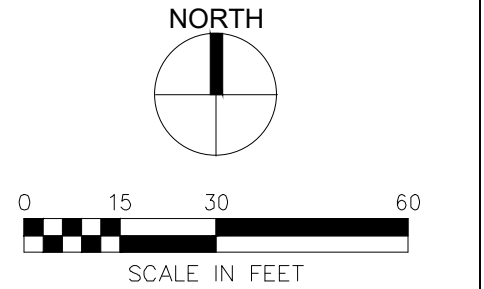
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APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007940
CLIENT PROJECT NUMBER	...



SITE PLAN

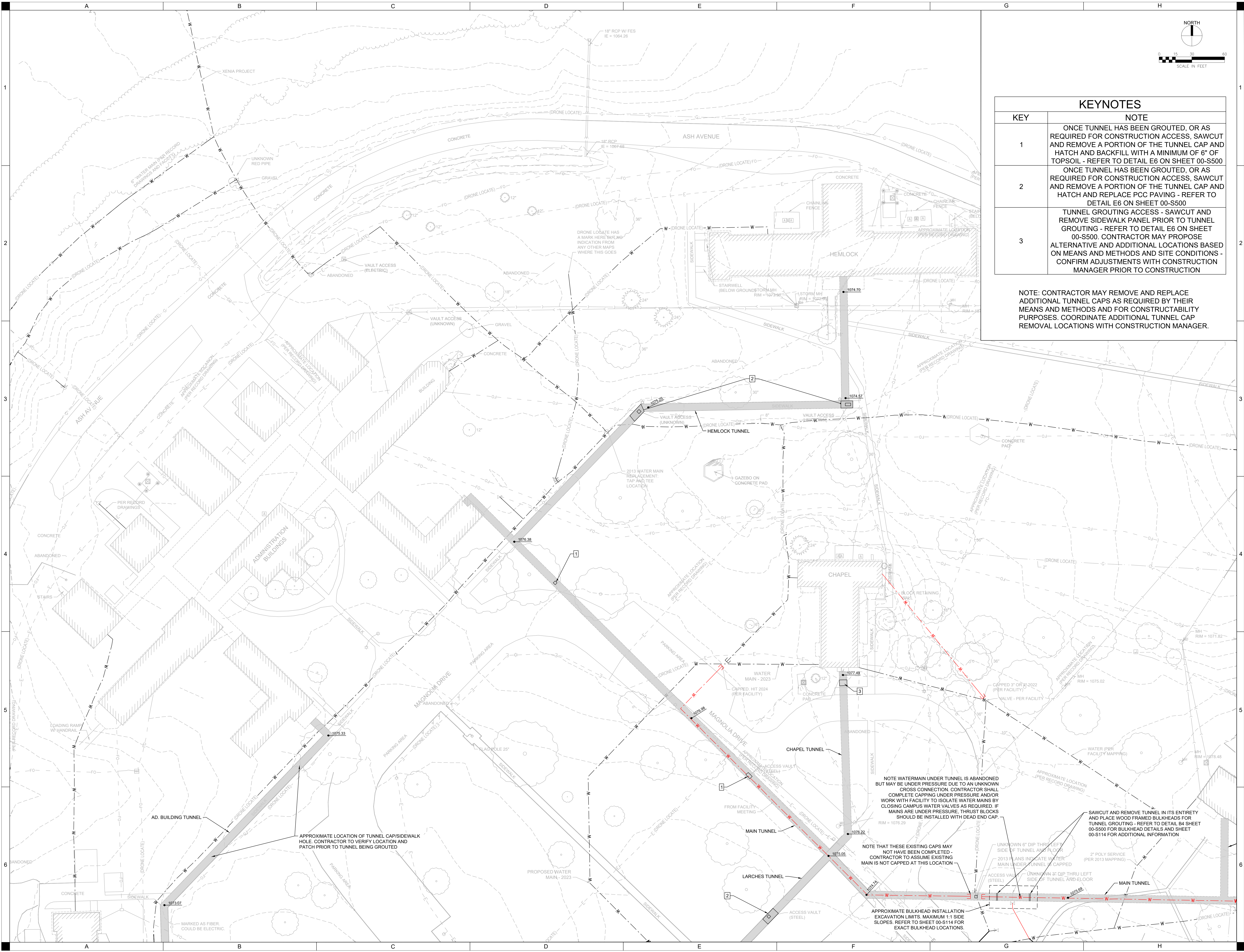
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KEYNOTES	
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NOTE: CONTRACTOR MAY REMOVE AND REPLACE ADDITIONAL TUNNEL CAPS AS REQUIRED BY THEIR MEANS AND METHODS AND FOR CONSTRUCTABILITY PURPOSES. COORDINATE ADDITIONAL TUNNEL CAP REMOVAL LOCATIONS WITH CONSTRUCTION MANAGER.



NOTE WATERMAIN UNDER TUNNEL IS ABANDONED BUT MAY BE UNDER PRESSURE DUE TO AN UNKNOWN CROSS CONNECTION. CONTRACTOR SHALL COMPLETE CAPPING UNDER PRESSURE AND/OR WORK WITH FACILITY TO ISOLATE WATER MAINS BY CLOSING CAMPUS WATER VALVES AS REQUIRED. IF MAINS ARE UNDER PRESSURE, THRUST BLOCKS SHOULD BE INSTALLED WITH DEAD END CAP.

NOTE THAT THESE EXISTING CAPS MAY NOT HAVE BEEN COMPLETED - CONTRACTOR TO ASSUME EXISTING MAIN IS NOT CAPPED AT THIS LOCATION

SAWCUT AND REMOVE TUNNEL IN ITS ENTIRETY AND PLACE WOOD FRAMED BULKHEADS FOR TUNNEL GROUTING - REFER TO DETAIL B4 SHEET 00-S500 FOR BULKHEAD DETAILS AND SHEET 00-S114 FOR ADDITIONAL INFORMATION

APPROXIMATE BULKHEAD INSTALLATION EXCAVATION LIMITS. MAXIMUM 1:1 SIDE SLOPES. REFER TO SHEET 00-S114 FOR EXACT BULKHEAD LOCATIONS.

APPROXIMATE LOCATION OF TUNNEL CAP/SIDEWALK HOLE. CONTRACTOR TO VERIFY LOCATION AND PATCH PRIOR TO TUNNEL BEING GROUTED

**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

SITE PLAN

00-C106

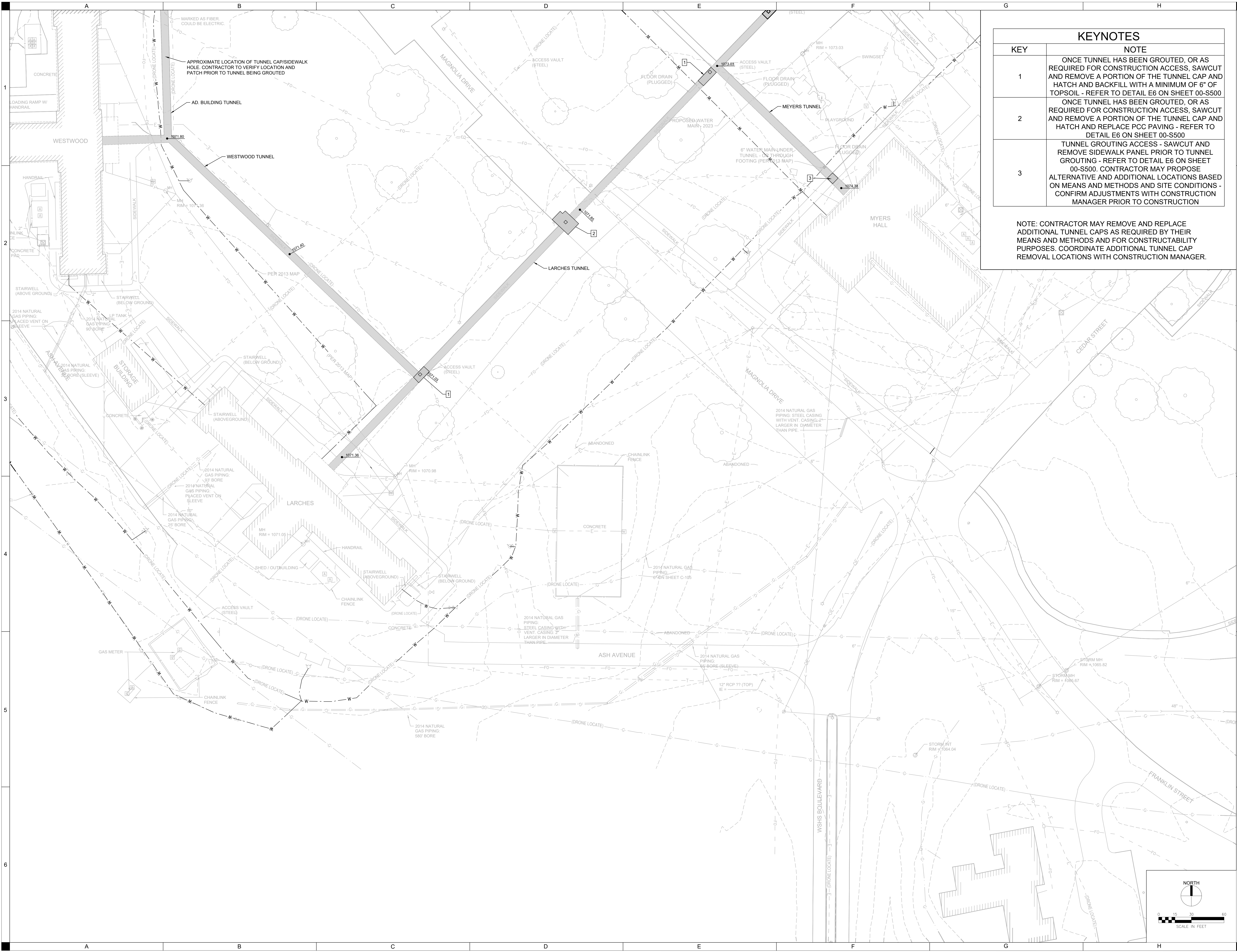
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF THE COMPTROLLER
34 CEDAR ST. WOODWARD, IA 50276

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APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007940
CLIENT PROJECT NUMBER	...

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KEYNOTES	
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NOTE: CONTRACTOR MAY REMOVE AND REPLACE ADDITIONAL TUNNEL CAPS AS REQUIRED BY THEIR MEANS AND METHODS AND FOR CONSTRUCTABILITY PURPOSES. COORDINATE ADDITIONAL TUNNEL CAP REMOVAL LOCATIONS WITH CONSTRUCTION MANAGER.



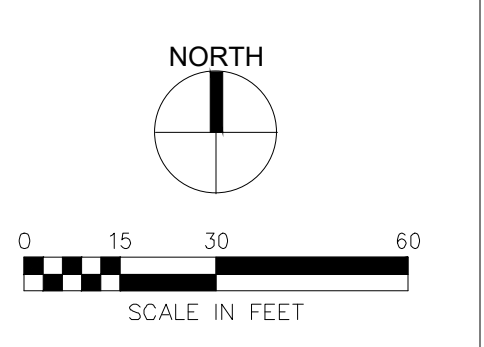
**IA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF PUBLIC WORKS
334 CEDAR ST. WOODWARD, IA 50276

DRAWN BY	BDD
APPROVED BY	CRB
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PROJECT NUMBER	2240007940
CLIENT PROJECT NUMBER	

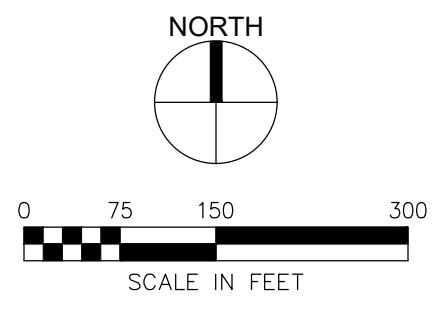
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LEGEND	
GENERAL SITE	
PLAN MARK	DESCRIPTION
--- W ---	ACTIVE WATER LINE
- - - W - - -	ABANDONED WATER LINE
- - - W - - -	PROPOSED WATER LINE



**IJA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
IOWA STATE UNIVERSITY
34 CEDAR ST. WOODWARD, IA 50276

DRAWN BY	BDD
APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2026
PROJECT NUMBER	2240007040
FIELD BOOK	----

**OVERALL WATER
PLAN**

00-C201

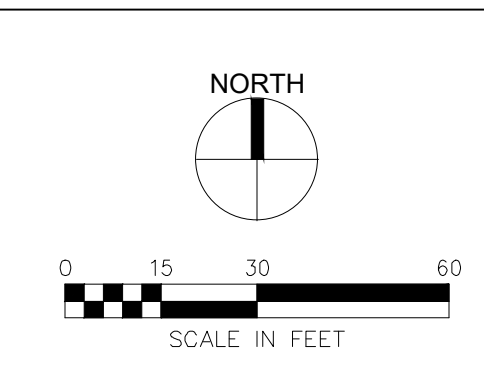
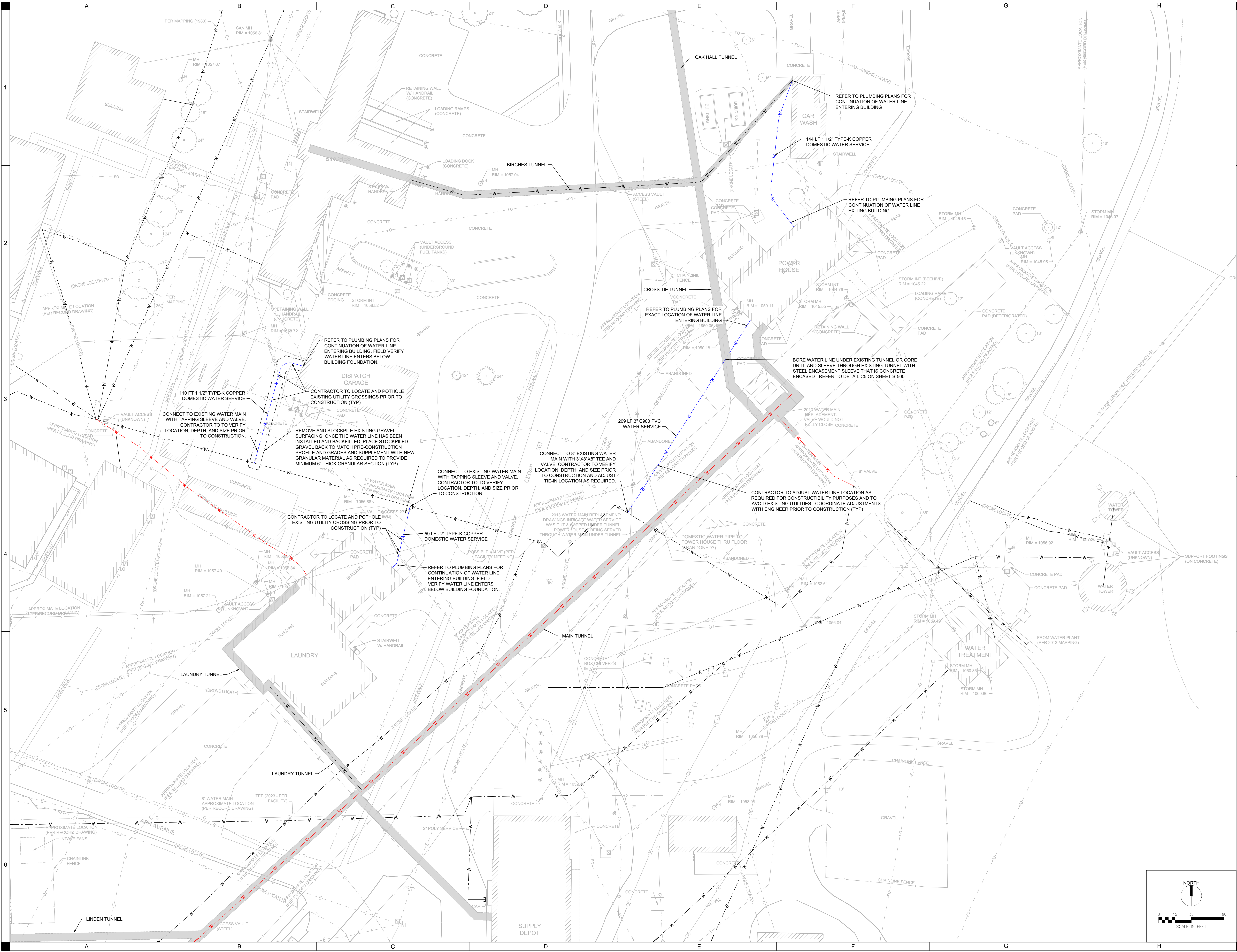
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**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
1000 EAST 19TH AVENUE, SUITE 200
DES MOINES, IA 50319
34 CEDAR ST., WOODWARD, IA 50276

WATER
PLAN

00-C202



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APPROVED BY	CRB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2025
PROJECT NUMBER	2240007940
FIELD BOOK	

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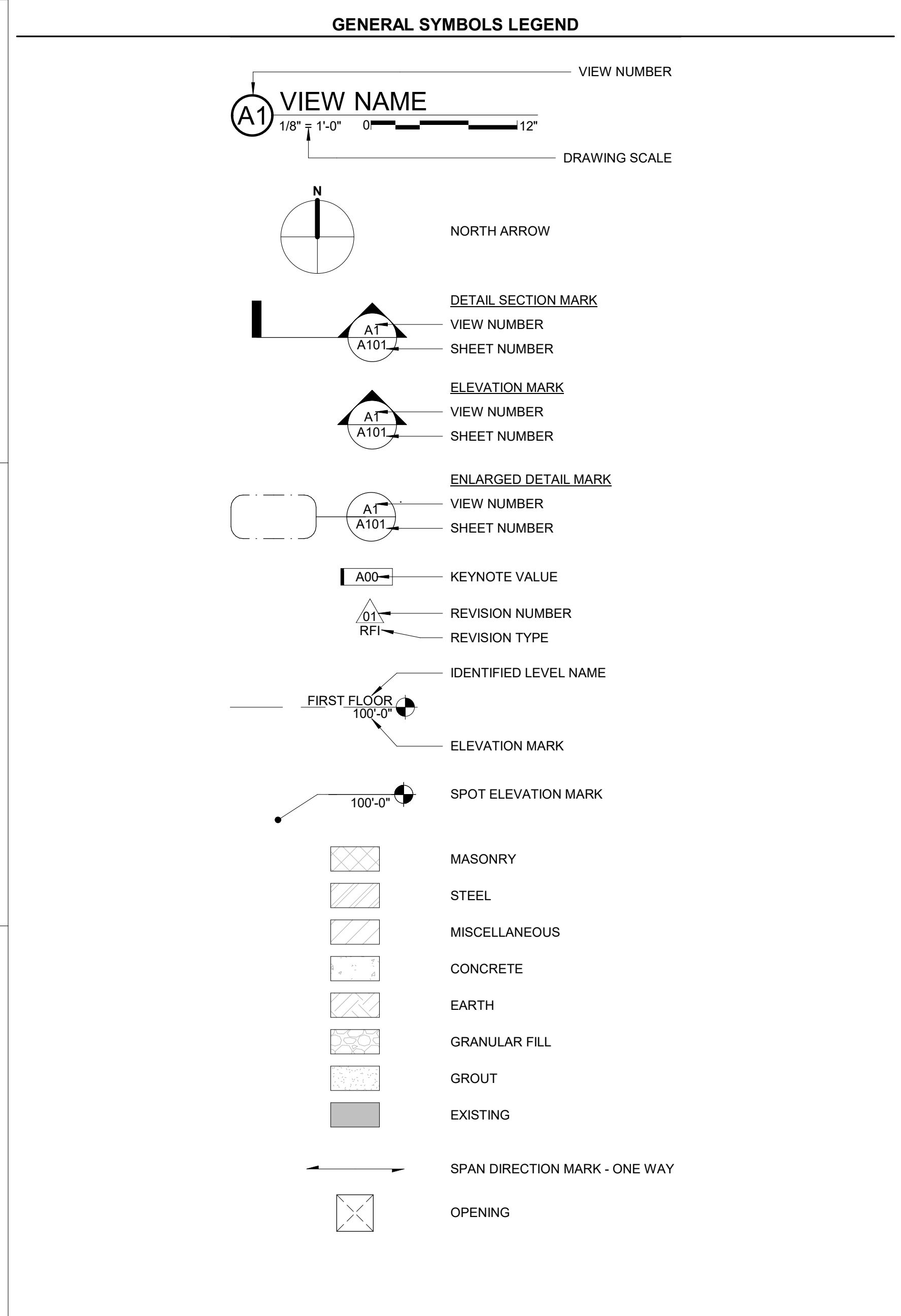
ABBREVIATIONS	
A	ADDENDUM
AT	AUTHORITY HAVING JURISDICTION
AHJ	ALTERNATE ARCHITECT (URAL)
B	BOTTOM OF BUILDING
BLDG	BOTTOM
BP	BASE PLATE
BRG	BEARING BETWEEN
BTWN	
CFGI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CIP	CAST-IN PLACE CONSTRUCTION/CONTROL JOINT
CJ	CENTER LINE
CL	CLEAR (ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT (ION) (ED) (OR)
CONT	CONTINUOUS
COORD	COORDINATE
CSF	COLD FORMED STEEL FRAMING
D	DECK BEARING ELEVATION
DEG. °	DEGREE
DEM/D	DEMOLITION
DIA. Ø	DIAMETER
DIM	DIMENSION
DN	DOWN
DTL	DETAIL DRAWING
E	EXISTING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEC	ELECTRIC / ELECTRICAL
ELEV or EL	ELEVATION
EMBED	EMBEDDED
ENR	ENGINEER OR RECORD
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
F	FOUNDATION
FND	FINISHED FLOOR
FRP	FIBER REINFORCED POLYMER
FTG	FOOTING
FV	FIELD VERIFY
G	GAGE or GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL	GRID LINE
H	HORIZONTAL
HORIZ	HEADED WELDED STUDS
HWS	
I	INSIDE DIAMETER
J	JOIST BEARING ELEVATION
JBE	
L	LINEAR FOOT
LLBB	LONG LEG BACK TO BACK
LLOS	LONG LEG OUTSTANDING
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LVL	LAMINATED VENEER LUMBER

GENERAL NOTES	
1.	THE GENERAL STRUCTURAL NOTES ARE INTENDED TO SUPPLEMENT THE DRAWINGS AND SPECIFICATIONS. SHOULD CONFLICTS EXIST BETWEEN THESE DRAWINGS AND THE SPECIFICATIONS NOTIFY THE ENGINEER.
2.	STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL PROJECT DRAWINGS AND SPECIFICATIONS. REFER TO ALL DRAWINGS FOR THE COORDINATION OF THE WORK IN THIS PROJECT.
3.	THE INTENT OF THESE PLANS AND NOTES IS TO PRESENT THE PROJECT REQUIREMENTS. MAJOR DETAILS HAVE BEEN SHOWN ON THE DRAWINGS. HOWEVER, CERTAIN MINOR DETAILS MUST BE WORKED OUT IN THE FIELD OR SHOP DRAWING PROCESS BY THE CONTRACTOR.
4.	UNLESS NOTED OTHERWISE, DETAILS SHOWN ON DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
5.	UNLESS NOTED OTHERWISE, THE DRAWINGS DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE CONSTRUCTION PROCEDURE AND SEQUENCING TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF TEMPORARY BRACING NECESSARY FOR THE CONSTRUCTION PROCESS.
6.	IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW THE APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
7.	CONTRACTOR'S CONSTRUCTION AND ERECTION SEQUENCE SHALL CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF THE STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.
8.	EXISTING CONDITIONS: A. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS RELATING TO EXISTING CONSTRUCTION AND EXISTING SERVICES ON SITE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING COLUMNS, WALLS, OPENINGS, ETC. PRIOR TO PROCEEDING WITH THE WORK. ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK. B. DURING CONSTRUCTION THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH ARE NOT KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION (DISCOVERY). SUCH CONDITIONS MAY INTERFERE WITH NEW CONSTRUCTION OR REQUIRE PROTECTION AND/OR SUPPORT OF EXISTING WORK DURING CONSTRUCTION. IT MAY ALSO CONSIST OF DAMAGED OR DETERIORATION OF STRUCTURAL MATERIALS OR COMPONENTS WHICH COULD JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE(S). THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL DISCOVERIES WHICH MAY INTERFERE WITH THE PROPER EXECUTION OF THE WORK OR JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE STRUCTURE(S) PRIOR TO PROCEEDING WITH THE WORK RELATED TO SUCH DISCOVERIES. C. DURING THE CONSTRUCTION PROCESS, IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF EXISTING STRUCTURES AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT ARE TO REMAIN. D. CONTRACTOR SHALL INVESTIGATE THE SITE DURING EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES. IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH MATERIALS OR STRUCTURES ARE DISCOVERED.
9.	STRUCTURAL COORDINATION A. MECHANICAL, ELECTRICAL OR PLUMBING LOADS, OPENINGS, AND SUPPORT FRAMING ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE MECHANICAL, ELECTRICAL OR PLUMBING CONTRACTOR BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. B. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, HOLES AND SLEEVES THROUGH FOUNDATIONS AND OTHER STRUCTURAL ELEMENTS WITH THE MECHANICAL, ELECTRICAL AND PLUMBING CONTRACTORS. NO OPENINGS SHALL PASS THROUGH STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. C. EXCESS COST DUE TO VARIATION IN THE STRUCTURE TO ACCOMMODATE A SUBSTITUTION OR ALTERNATE MANUFACTURER(S) FROM THE LISTED BASIS OF DESIGN SHALL BE BORNE BY THE CONTRACTOR.
10.	BEFORE SUBMITTING A BID, EACH BIDDER SHALL VISIT THE SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, CONSTRUCTION REQUIREMENTS, RESTRICTIONS, QUANTITIES AND EQUIPMENT NECESSARY TO COMPLETE THE WORK. THE BID SHALL INCLUDE ALL ITEMS REQUIRED TO COMPLETE THE WORK WITHIN THE EXISTING CONDITIONS. DISRUPTION OF THE OWNERS NORMAL ACTIVITIES AROUND THE CONSTRUCTION SITE SHALL BE KEPT TO A MINIMUM.
11.	THE COST OF ADDITIONAL DESIGN WORK DUE TO ERRORS AND OMISSIONS BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE BORNE BY THE RESPONSIBLE CONTRACTOR.
12.	CONTRACTOR SHALL COORDINATE WORK SCHEDULES WITH THE OWNER TO ESTABLISH CONSTRUCTION SEQUENCING AROUND ANY OCCUPIED AREAS. CONTRACTOR SHALL NOT PROCEED TO OCCUPIED AREAS UNTIL AUTHORIZED BY THE OWNER.
13.	ALL ELEMENTS AND SURFACES DAMAGED BY DEMOLITION, BUT NOT SCHEDULED FOR REMOVAL SHALL BE REPAIRED AND REFINISHED TO MATCH THE ADJACENT SURFACES AT NO ADDITIONAL COST TO THE OWNER.
14.	CONTRACTOR SHALL REMOVE ALL DEBRIS AND WASTE MATERIALS RESULTING FROM CONSTRUCTION FROM THE SITE, UNLESS NOTED OTHERWISE.
15.	CONTRACTOR SHALL MINIMIZE CREATION OF DUST, DIRT AND WINDBORNE DEBRIS FROM BLOWING ACROSS THE SITE AND ONTO ADJACENT SITES.
16.	CONTRACTOR SHALL COVER ANY EXTERIOR OPENING WITH TEMPORARY CLOSURES WHEN NOT WORKING ON SITE TO PROTECT THE INTERIOR SPACES FROM WEATHER, INSECTS, RODENTS AND INTRUDERS.
17.	DIMENSIONS WERE FIELD-MEASURED AND ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS CRITICAL TO CONSTRUCTION OR FABRICATION.
18.	WATERSTOPS PER SPECIFICATIONS TO BE INSTALLED AT NEW/EXISTING CONCRETE INTERFACES. WATERSTOP SHALL BE INSTALLED WITH 2" MIN COVER WITH ONE MAT OF REINFORCING BETWEEN THE WATERSTOP AND THE EXTERIOR FACE OF THE CONCRETE AND OTHERWISE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
19.	STRUCTURES ARE DESIGNED FOR A SOIL BEARING CAPACITY OF 1500 PSF ON NATIVE SOILS AND STRUCTURAL FILL. IF SOIL OF QUESTIONABLE QUALITY IS DISCOVERED, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AND ALLOW A GEOTECHNICAL ENGINEER TO VERIFY THAT ACTUAL CONDITIONS MEET OR EXCEED THIS CAPACITY. GEOTECHNICAL ENGINEERING SERVICES SHALL BE PAID BY OWNER.

DESIGN INFORMATION	
1.	CODES: A. INTERNATIONAL BUILDING CODE (IBC) 2015 B. AMERICAN CONCRETE INSTITUTE - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318) C. AMERICAN CONCRETE INSTITUTE - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530) D. AMERICAN SOCIETY OF CIVIL ENGINEERS AND STRUCTURAL ENGINEERING INSTITUTE (ASCE/SEI 7) - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES E. AMERICAN WELDING SOCIETY D1.1
2.	DESIGN LOADS PER THE 2015 IBC (RISK CATEGORY II) A. DEAD LOADS STRUCTURE SELF WEIGHT AS SHOWN
3.	STRUCTURES ARE DESIGNED FOR A SOIL BEARING CAPACITY LISTED BELOW ON NATIVE SOILS AND STRUCTURAL FILL. IF SOIL OF QUESTIONABLE QUALITY IS DISCOVERED, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD AND ALLOW A GEOTECHNICAL ENGINEER TO VERIFY THAT ACTUAL CONDITIONS MEET OR EXCEED THIS CAPACITY. GEOTECHNICAL ENGINEERING SERVICES SHALL BE PAID BY OWNER. NET ALLOWABLE SOIL BEARING PRESSURE 1500PSF (ASSUMED)

CAST-IN-PLACE CONCRETE		
1.	ALL CONCRETE SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTES PUBLICATIONS: ACI 301, ACI 305.1, ACI 306.1, ACI 315, AND ACI 318 UNLESS NOTED OTHERWISE.	
2.	CONCRETE COMPRESSIVE STRENGTH (28 DAY)(F _c) FOUNDATION WALLS AND PIERS 4000 PSI SLAB ON GRADE 4000 PSI ELEVATED BEAM, SLABS AND JOISTS 4000 PSI	
3.	CONCRETE REINFORCEMENT STANDARDS: DEFORMED BARS ASTM A615 F _y = 60 KSI WELDED WIRE REINFORCEMENT (WWR) ASTM A1964 F _y = 65 KSI EPOXY COATED REINFORCING ASTM A775 F _y = 60 KSI	
4.	ALL CONCRETE SHALL BE STONE AGGREGATE UNLESS NOTED OTHERWISE. SUBMIT MIX DESIGN AND DOCUMENTATION FOR APPROVAL PER ACI 318.	
5.	REINFORCEMENT PROTECTION A. CONCRETE PLACED AGAINST EARTH - 3" B. CONCRETE PLACED IN FORMS BUT EXPOSED TO WEATHER OR EARTH: a. BARS #5 AND SMALLER - 1 1/2" b. BARS LARGER THAN #5 - 2"	
6.	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: a. SLABS, WALLS, AND JOISTS - 3/4" b. BEAMS, COLUMNS - 1 1/2"	
7.	WHERE REQUIRED, DOWELS SHALL MATCH THE SIZE, NUMBER AND SPACING OF THE MAIN REINFORCING UNLESS NOTED OTHERWISE.	
8.	ALL SPLICES, STANDARD HOOKS, AND DEVELOPMENT LENGTHS TO BE PER THE REFERENCED EDITION OF ACI 318. MAKE BARS CONTINUOUS AROUND CORNERS. ALL SPLICES SHALL BE BY CONTACT LAP.	
9.	ALL SPLICES SHALL BE A CLASS "B" TENSION SPLICE AS DEFINED IN ACI 318. PROVIDE LAP SPLICES LENGTHS AS FOLLOWS:	
		4000 PSI
BAR SIZE	TYPICAL	TOP BARS
#3	19"	25"
#4	25"	33"
#5	31"	41"
#6	37"	49"
#7	54"	71"
#8	62"	81"
#9	70"	91"
#10	79"	102"
#11	87"	114"

TUNNEL FILLING NOTES	
1.	FILL EXISTING TUNNEL WITH IDOT 2506 FLOWABLE MORTAR OR FOAMED CELLULAR CONCRETE. HEREUNTO REFERRED TO AS "GROUT". SUBMIT GROUT MIX WITH PROPERTIES THAT MAKE FILL REMOVABLE WITHOUT DAMAGING EXISTING UTILITIES. GROUT SHALL HAVE SIMILAR INSULATING PROPERTIES TO NATIVE SOILS. GROUT SHALL HAVE A COMPRESSIVE STRENGTH OF 50 TO 100 PSI. CONTRACTOR TO MONITOR AND DOCUMENT THE VOLUME OF GROUT USED TO FILL TUNNELS. PROVIDE VENTING AND ADDITIONAL FILL PORTS AS REQUIRED IN TEMPORARY FORMS FOR GROUT.
2.	CONCRETE BULKHEADS TO REACH F _c OF AT LEAST 4000 PSI PRIOR TO INFILLING WITH GROUT.
3.	FILL PORT LOCATIONS IN ROAD ARE NOT ANTICIPATED. SUBMIT PLANS AND EXPLANATION TO OWNER FOR REVIEW AND APPROVAL IF DEEMED NECESSARY.
4.	GROUT TUNNEL TO BOTTOM OF ROOF SLAB, UNLESS NOTED OTHERWISE. DO NOT FILL MANHOLES TO TOP OF ACCESS STRUCTURE. 60 MANHOLE CAN BE REMOVED WITHOUT REQUIRING GROUT MODIFICATION. TUNNEL MUST BE GROUTED PRIOR TO DEMOLITION OF SIDEWALK PANEL. AS PANEL IS ANTICIPATED TO BE TUNNEL ROOF AND PROVIDE SUPPORT TO THE WALLS.
5.	CONTRACTOR MAY USE PLYWOOD FORMS, PROPERLY BRACED AGAINST BOW. AS INTERMEDIATE BULKHEADS AT LIMITS OF EACH GROUT POUR. INTERMEDIATE BULKHEADS ARE NOT SHOWN ON THE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS ASSOCIATED WITH INTERMEDIATE BULKHEADS SHALL BE INCLUDED IN BID. INTERMEDIATE BULKHEAD LOCATIONS SHALL BE LOCATED ON SITE PLAN WITH DIMENSIONS FROM NEAREST TUNNEL INTERSECTION AND PROVIDED TO OWNER FOR RECORDS. AT CONTRACTOR'S OPTION, CONCRETE OR CMU MAY BE USED FOR INTERMEDIATE BULKHEADS IN LIEU OF WOOD. CONCRETE OR CMU BULKHEADS SHALL BE PROPERLY DESIGNED TO RESIST HYDROSTATIC FORCES FROM GROUT DURING INSTALLATION AND DESIGN SHALL BE SUBMITTED TO ENGINEER OF RECORD PRIOR TO CONSTRUCTION FOR REVIEW.
6.	CONTRACTOR TO DESIGN AND PROVIDE PERMANENT SUPPORT FOR PROPOSED CONDUIT AND PIPING WITHIN EXISTING TUNNELS. SUPPORTS SHALL BE SPACED AND CONFIGURED TO PREVENT DISPLACEMENT AND/OR COLLAPSE OF UTILITIES WHEN TUNNEL IS GROUTED. SUPPORT CONCEPT SHALL BE SUBMITTED TO OWNER AND ENGINEER FOR INFORMATION AT LEAST TWO WEEKS PRIOR TO FABRICATION OF SUPPORTS.



**IJA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

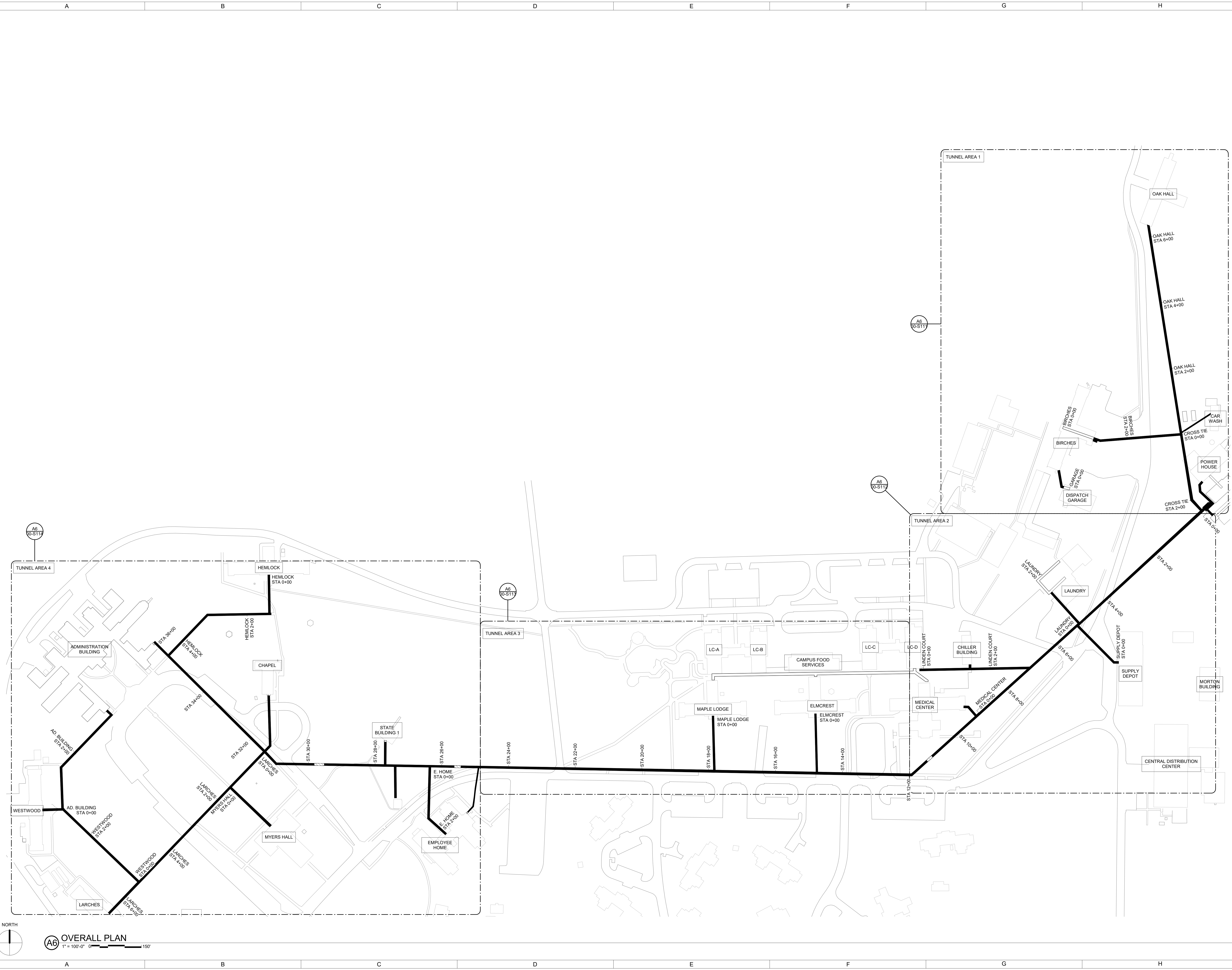
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
IOWA PROJECT NUMBER: 2273-20
34 CEDAR ST. WOODWARD, IA 50276

**PRELIMINARY
- NOT FOR
CONSTRUCTION**

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/21/2026
PROJECT NUMBER	2240007940
FIELD BOOK	

TUNNEL PLAN

00-S110



As noted, Doc# 2240007940 IJA DAS - HHS WRC Ph. 4
IOWA PROJECT NUMBER: 2273-20
34 CEDAR ST. WOODWARD, IA 50276

PLAN NOTES

- SEE SHEET 00-S000 FOR GENERAL NOTES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND QUANTITIES.

KEYNOTES

KEY	NOTE
2	OPENING IN FLOOR TO TUNNEL SUBDRAIN TO REMAIN. COVER OPENING PER DETAIL B5/00-S500.
24	2 1/2" OD FIBERGLASS PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS. ENCLOSE EXISTING PIPE WITH CONCRETE PRIOR TO GROUT FILL PER DETAIL C5/00-S500.
31	4 1/2" OD DUCTILE IRON PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
32	3'-0"X1'-4" X 2' DEEP BRICK PIT IN FLOOR TO TUNNEL SUBDRAIN. INFILL PER DETAIL E5/00-S500.
33	2 1/2" OD STEEL PIPE PENETRATIONS IN TUNNEL LEFT AND RIGHT WALLS. CAP PIPES PER DETAIL A5/00-S500.
34	7" OD DUCTILE IRON PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN. ENCLOSE EXISTING PIPE WITH CONCRETE PRIOR TO GROUT FILL PER DETAIL C5/00-S500.
35	2'-9" X 1'-3" VENT OPENING IN TUNNEL LEFT WALL. INFILL PER DETAIL A2/00-S500.
36	FLOOR DRAIN PIPE PENETRATION LOCATED IN TUNNEL LEFT WALL TO BE RELOCATED. SEE MECHANICAL FOR ADDITIONAL INFORMATION.
41	4" OD STEEL PIPE PENETRATION IN TUNNEL ROOF. PIPE TO BE REMOVED IN ROOF DEMOLITION. SEE SHEET 16-S133 FOR ADDITIONAL INFORMATION.
42	(2) STEEL CONDUIT PIPE PENETRATION IN TUNNEL ROOF. CAP PIPES PER DETAIL A5/00-S500.
48	UTILITY PIPE CHASE. CAP PIPES ENTERING TUNNEL AT TUNNEL WALL PER DETAIL A5/00-S500. REMOVE PIPES IN UTILITY CHASE AS ABLE.
52	7" OD DUCTILE IRON PIPE PENETRATION IN FLOOR. CAP PIPE PER DETAIL A5/00-S500.

TUNNEL	APPROXIMATE GROUT (CY)
OAK HALL TUNNEL	778
BIRCHES TUNNEL	350
CROSS TIE TUNNEL	278
POWER HOUSE TUNNEL	260
DISPATCH GARAGE TUNNEL	35
CAR WASH UTILITY CHASE	21

QUANTITY NOTE:
APPROXIMATE QUANTITIES ARE PROVIDED FOR REFERENCE ONLY AND CONTRACTORS SHALL VERIFY ALL QUANTITIES. PAYMENT FOR ADDITIONAL QUANTITIES WILL NOT BE COMPLETED.

**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

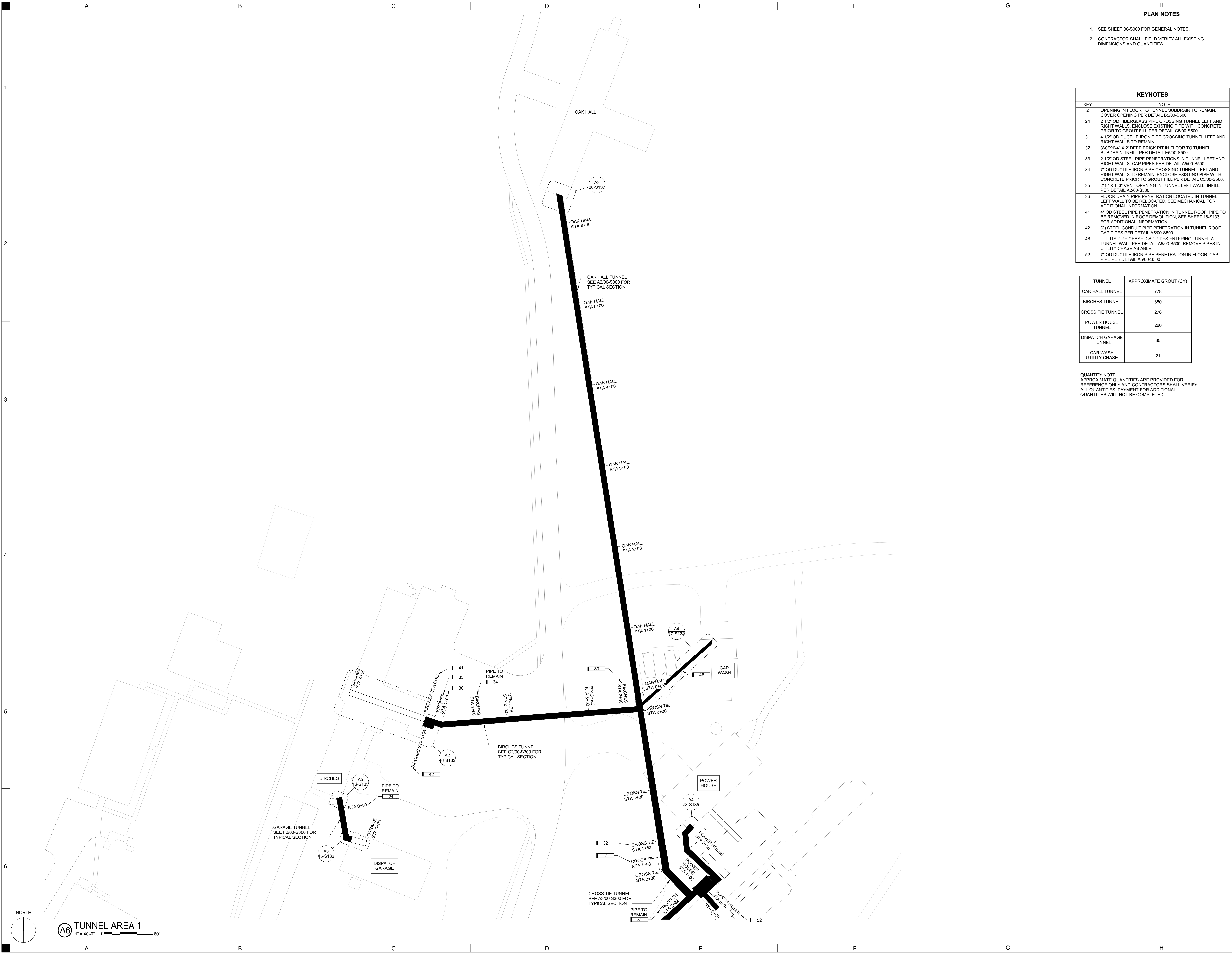
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
I/A DAS PROJECT NUMBER: 2473-50
34 CEDAR ST., WOODWARD, IA 50276

**PRELIMINARY
- NOT FOR
CONSTRUCTION**

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

TUNNEL PLAN

00-S111



3201 02vsk eRedouA
320 02vsk eRedouA

PLAN NOTES

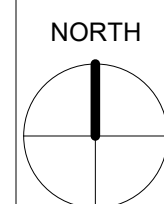
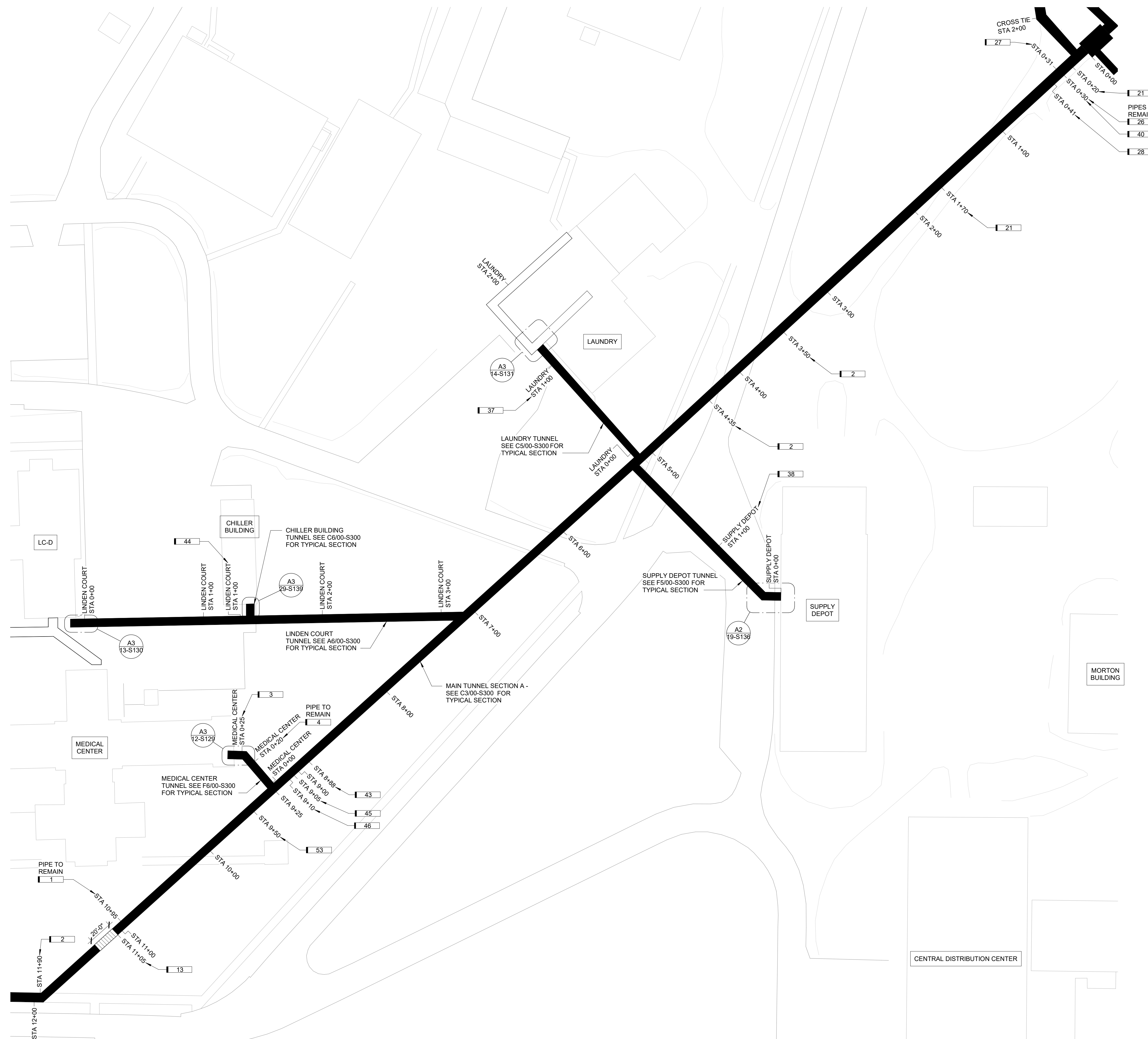
- SEE SHEET 00-S000 FOR GENERAL NOTES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND QUANTITIES.

KEYNOTES

KEY	NOTE
1	5" OD STEEL PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
2	OPENING IN FLOOR TO TUNNEL SUBDRAIN TO REMAIN. COVER OPENING PER DETAIL B5/00-S500.
3	(2) 4" OD PIPE PENETRATIONS IN TUNNEL LEFT WALL. CAP PIPES PER DETAIL A5/00-S500.
4	7" OD DUCTILE IRON PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
13	DEMO TUNNEL AT LOCATION INDICATED ON PLAN. CAP WATERMAIN UNDERNEATH TUNNEL AT TUNNEL ENDS. PROVIDE WOOD FRAMED BULKHEAD AT TUNNEL ENDS TO RESIST FORCES FROM FLOWABLE GROUT. REFER TO CIVIL DRAWINGS FOR EXCAVATION LIMITS.
21	HOLE IN FLOOR TO TUNNEL SUBDRAIN. INFILL PER DETAIL A2/00-S500.
26	(2) 2 1/2" GROUTED PVC PIPE PENETRATIONS IN TUNNEL LEFT WALL TO REMAIN.
27	(5) PIPE PENETRATIONS, (4) 3" OD STEEL PIPES AND (1) 2 1/2" OD STEEL PIPE IN TUNNEL LEFT WALL. CAP PIPES PER DETAIL A5/00-S500.
28	4" OD STEEL PIPE PENETRATION WITH (2) PIPES INSIDE IN TUNNEL LEFT WALL. CAP PIPES PER DETAIL A5/00-S500.
37	2" OD STEEL CONDUIT PIPE PENETRATION IN TUNNEL RIGHT WALL. CAP PIPE PER DETAIL A5/00-S500.
38	EXISTING SHORING TO REMAIN. SEE DETAIL F5/00-S300 FOR ADDITIONAL INFORMATION.
40	2" OD PVC PIPE PENETRATION IN TUNNEL LEFT WALL. CAP PIPE PER DETAIL A5/00-S500.
43	1" OD STEEL CONDUIT PIPE PENETRATION IN TUNNEL LEFT WALL. CAP PIPE PER DETAIL A5/00-S500.
44	2'-0"x1'-4" OPENING IN TUNNEL LEFT WALL. INFILL PER DETAIL A2/00-S500.
45	5" OD DUCTILE IRON PIPE PENETRATION IN FLOOR. CAP PIPE PER DETAIL A5/00-S500.
46	5" OD DUCTILE IRON PIPE PENETRATION IN TUNNEL RIGHT WALL. CAP PIPE PER DETAIL A5/00-S500.
53	1 1/2" OD STEEL PIPE PENETRATION IN TUNNEL LEFT WALL. CAP PIPE PER DETAIL A5/00-S500.

TUNNEL	APPROXIMATE GROUT (CY)
LAUNDRY TUNNEL	115
SUPPLY DEPOT TUNNEL	150
LINDEN COURT TUNNEL	484
CHILLER BUILDING TUNNEL	12
MEDICAL CENTER TUNNEL	52
MAIN TUNNEL SECTION A	1,597

QUANTITY NOTE:
APPROXIMATE QUANTITIES ARE PROVIDED FOR REFERENCE ONLY AND CONTRACTORS SHALL VERIFY ALL QUANTITIES. PAYMENT FOR ADDITIONAL QUANTITIES WILL NOT BE COMPLETED.



(A6) TUNNEL AREA 2
1" = 40'-0"
0 60'

I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT

PRELIMINARY
- NOT FOR
CONSTRUCTION

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

TUNNEL PLAN

00-S112

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
I/A DAS PROJECT NUMBER: 2273-50
34 CEDAR ST., WOODWARD, IA 50276

SHIVE-HATTERY
ARCHITECTURE+ENGINEERING
800.798.0315 | SHIVE-HATTERY.COM

As noted, Doc# 2240007040 I/A DAS - HHS Ph. 4
Drawing# 00-S112 (00-S112) 04/24/2025
04/24/2025 10:15 AM

PLAN NOTES

- SEE SHEET 00-S000 FOR GENERAL NOTES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND QUANTITIES.

KEYNOTES

KEY	NOTE
2	OPENING IN FLOOR TO TUNNEL SUBDRAIN TO REMAIN. COVER OPENING PER DETAIL B5/00-S500.
5	11" OD DUCTILE IRON PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
6	9" OD CLAY CASING PIPE PENETRATION WITH (2) STEEL PIPES INSIDE IN TUNNEL LEFT WALL. CAP PIPES PER DETAIL A5/00-S500.
7	3" OD STEEL PIPE PENETRATION IN TUNNEL LEFT WALL. CAP PIPE PER DETAIL A5/00-S500.
8	VALVE IN TUNNEL FLOOR TO BE REMOVED AND CAPPED.
9	2" OD STEEL CONDUIT PIPE PENETRATION CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
10	7" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL FLOOR AND WALL. SAWCUT PIPE AND CAP AT TUNNEL FLOOR AND WALL PER DETAIL A2/00-S500.
11	2 1/2" OD STEEL PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
12	1'-6"x1'-6" VENT OPENING IN TUNNEL WALL. SAWCUT VENT FROM TUNNEL AND THEN INFILL TUNNEL WALL PER DETAIL A2/00-S500.
49	EXISTING SHORING TO REMAIN. SEE DETAIL F3/00-S300 FOR ADDITIONAL INFORMATION.
50	HOLE IN FLOOR TO WATERMAIN. INFILL PER DETAIL A2/00-S500.

TUNNEL	APPROXIMATE GROUT (CY)
ELMCREST TUNNEL	162
MAPLE LODGE TUNNEL	195
MAIN TUNNEL SECTION B	2,078

QUANTITY NOTE:
APPROXIMATE QUANTITIES ARE PROVIDED FOR REFERENCE ONLY AND CONTRACTORS SHALL VERIFY ALL QUANTITIES. PAYMENT FOR ADDITIONAL QUANTITIES WILL NOT BE COMPLETED.

**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF PROJECT NUMBER 2273-50
34 CEDAR ST. WOODWARD, IA 50276

**PRELIMINARY
- NOT FOR
CONSTRUCTION**

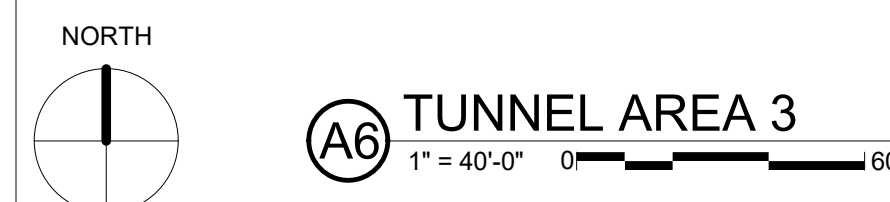
DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/21/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

TUNNEL PLAN

00-S113



As noted, Doc# 2240007040 I/A DAS - HHS WRC Campus Utility Decentralization Phase 5 - Tunnel & Utility Abandonment
Date: 04/21/2026 11:17 AM



A6 TUNNEL AREA 3
1" = 40'-0"

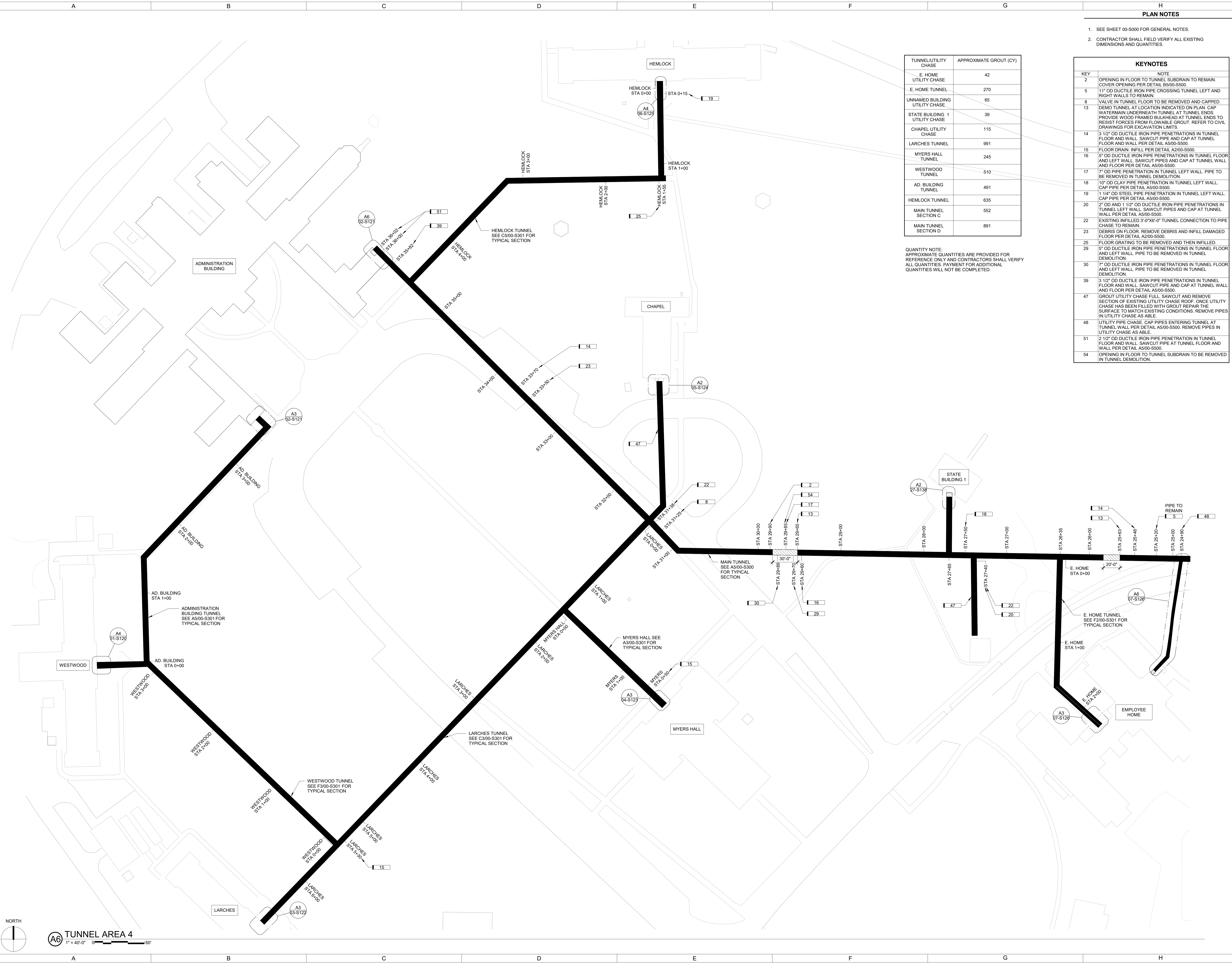
PLAN NOTES

- SEE SHEET 00-S000 FOR GENERAL NOTES.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND QUANTITIES.

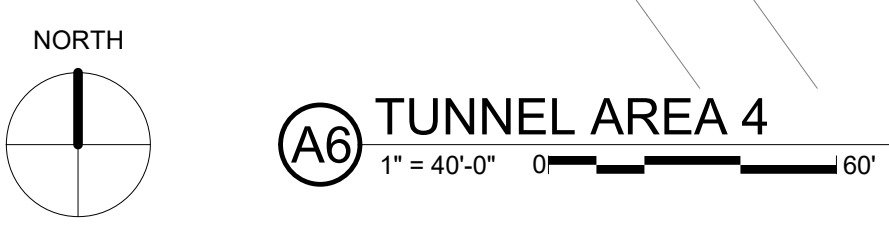
KEYNOTES	
KEY	NOTE
2	OPENING IN FLOOR TO TUNNEL SUBDRAIN TO REMAIN. COVER OPENING PER DETAIL B500-S500.
5	11" OD DUCTILE IRON PIPE CROSSING TUNNEL LEFT AND RIGHT WALLS TO REMAIN.
8	VALVE IN TUNNEL FLOOR TO BE REMOVED AND CAPPED.
13	DEMO TUNNEL AT LOCATION INDICATED ON PLAN. CAP WATERMAIN UNDERNEATH TUNNEL AT TUNNEL ENDS. PROVIDE WOOD FRAMED BULKHEAD AT TUNNEL ENDS TO RESIST FORCES FROM FLOWABLE GROUT. REFER TO CIVIL DRAWINGS FOR EXCAVATION LIMITS.
14	3 1/2" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL FLOOR AND WALL. SAWCUT PIPE AND CAP AT TUNNEL FLOOR AND WALL PER DETAIL A200-S500.
15	FLOOR DRAIN. INFILL PER DETAIL A200-S500.
16	5" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL FLOOR AND LEFT WALL. SAWCUT PIPES AND CAP AT TUNNEL WALL AND FLOOR PER DETAIL A500-S500.
17	7" OD PIPE PENETRATION IN TUNNEL LEFT WALL. PIPE TO BE REMOVED IN TUNNEL DEMOLITION.
18	10" OD CLAY PIPE PENETRATION IN TUNNEL LEFT WALL. CAP PIPE PER DETAIL A500-S500.
19	1 1/4" OD STEEL PIPE PENETRATION IN TUNNEL LEFT WALL. CAP PIPE PER DETAIL A500-S500.
20	2" OD AND 1 1/2" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL LEFT WALL. SAWCUT PIPES AND CAP AT TUNNEL WALL PER DETAIL A500-S500.
22	EXISTING INFILLED 3'-0"x6'-0" TUNNEL CONNECTION TO PIPE CHASE TO REMAIN.
23	DEBRIS ON FLOOR. REMOVE DEBRIS AND INFILL DAMAGED FLOOR PER DETAIL A200-S500.
25	FLOOR GRATING TO BE REMOVED AND THEN INFILLED.
29	5" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL FLOOR AND LEFT WALL. PIPE TO BE REMOVED IN TUNNEL DEMOLITION.
30	7" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL FLOOR AND LEFT WALL. PIPE TO BE REMOVED IN TUNNEL DEMOLITION.
39	3 1/2" OD DUCTILE IRON PIPE PENETRATIONS IN TUNNEL FLOOR AND WALL. SAWCUT PIPE AND CAP AT TUNNEL WALL AND FLOOR PER DETAIL A500-S500.
47	GROUT UTILITY CHASE FULL. SAWCUT AND REMOVE SECTION OF EXISTING UTILITY CHASE ROOF. ONCE UTILITY CHASE HAS BEEN FILLED WITH GROUT REPAIR THE SURFACE TO MATCH EXISTING CONDITIONS. REMOVE PIPES IN UTILITY CHASE AS ABLE.
48	UTILITY PIPE CHASE. CAP PIPES ENTERING TUNNEL AT TUNNEL WALL PER DETAIL A500-S500. REMOVE PIPES IN UTILITY CHASE AS ABLE.
51	2 1/2" OD DUCTILE IRON PIPE PENETRATION IN TUNNEL FLOOR AND WALL. SAWCUT PIPE AT TUNNEL FLOOR AND WALL PER DETAIL A500-S500.
54	OPENING IN FLOOR TO TUNNEL SUBDRAIN TO BE REMOVED IN TUNNEL DEMOLITION.

TUNNEL/UTILITY CHASE	APPROXIMATE GROUT (CY)
E HOME UTILITY CHASE	42
E HOME TUNNEL	270
UNNAMED BUILDING UTILITY CHASE	65
STATE BUILDING 1 UTILITY CHASE	39
CHAPEL UTILITY CHASE	115
LARCHES TUNNEL	991
MYERS HALL TUNNEL	245
WESTWOOD TUNNEL	510
AD. BUILDING TUNNEL	491
HEMLOCK TUNNEL	635
MAIN TUNNEL SECTION C	552
MAIN TUNNEL SECTION D	691

QUANTITY NOTE:
APPROXIMATE QUANTITIES ARE PROVIDED FOR REFERENCE ONLY AND CONTRACTORS SHALL VERIFY ALL QUANTITIES. PAYMENT FOR ADDITIONAL QUANTITIES WILL NOT BE COMPLETED.



As noted, Doc# 224007040 IJA DAS - HHS WRC
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
IOWA WORKSHEET NUMBER 2273-20
34 CEDAR ST. WOODWARD, IA 50276

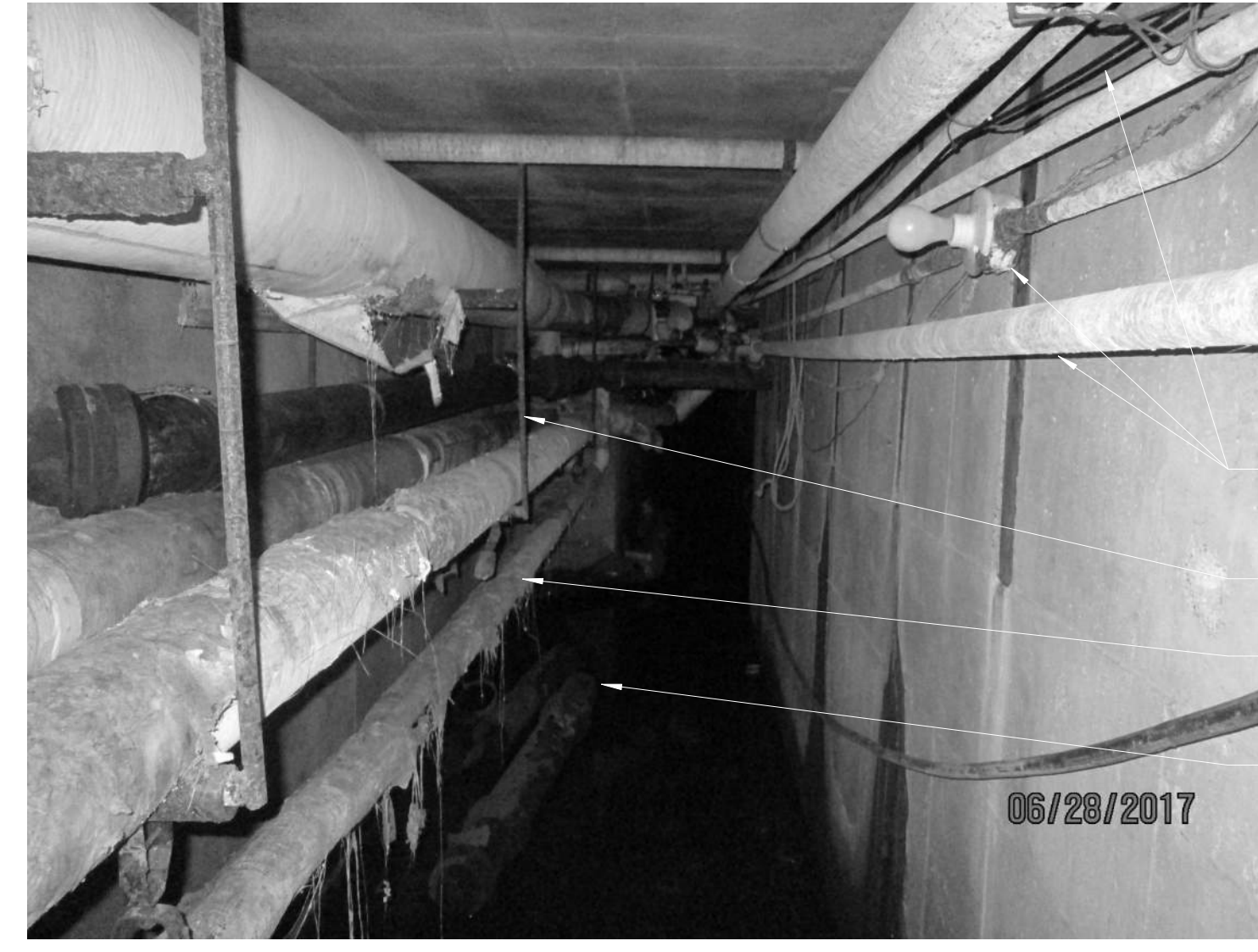


1



- REMOVE CONDUIT AND CABLE BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS
- REMOVE DEBRIS BY OTHERS, TYP

A2 OAK HALL TUNNEL
NOT TO SCALE



- REMOVE CONDUIT, CABLE, AND LIGHT BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP
- REMOVE DEBRIS BY OTHERS, TYP

C2 BIRCHES TUNNEL
NOT TO SCALE



- REMOVE PIPE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS
- REMOVE CABLE BY OTHERS
- REMOVE DEBRIS BY OTHERS, TYP

F2 DISPATCH GARAGE TUNNEL
NOT TO SCALE

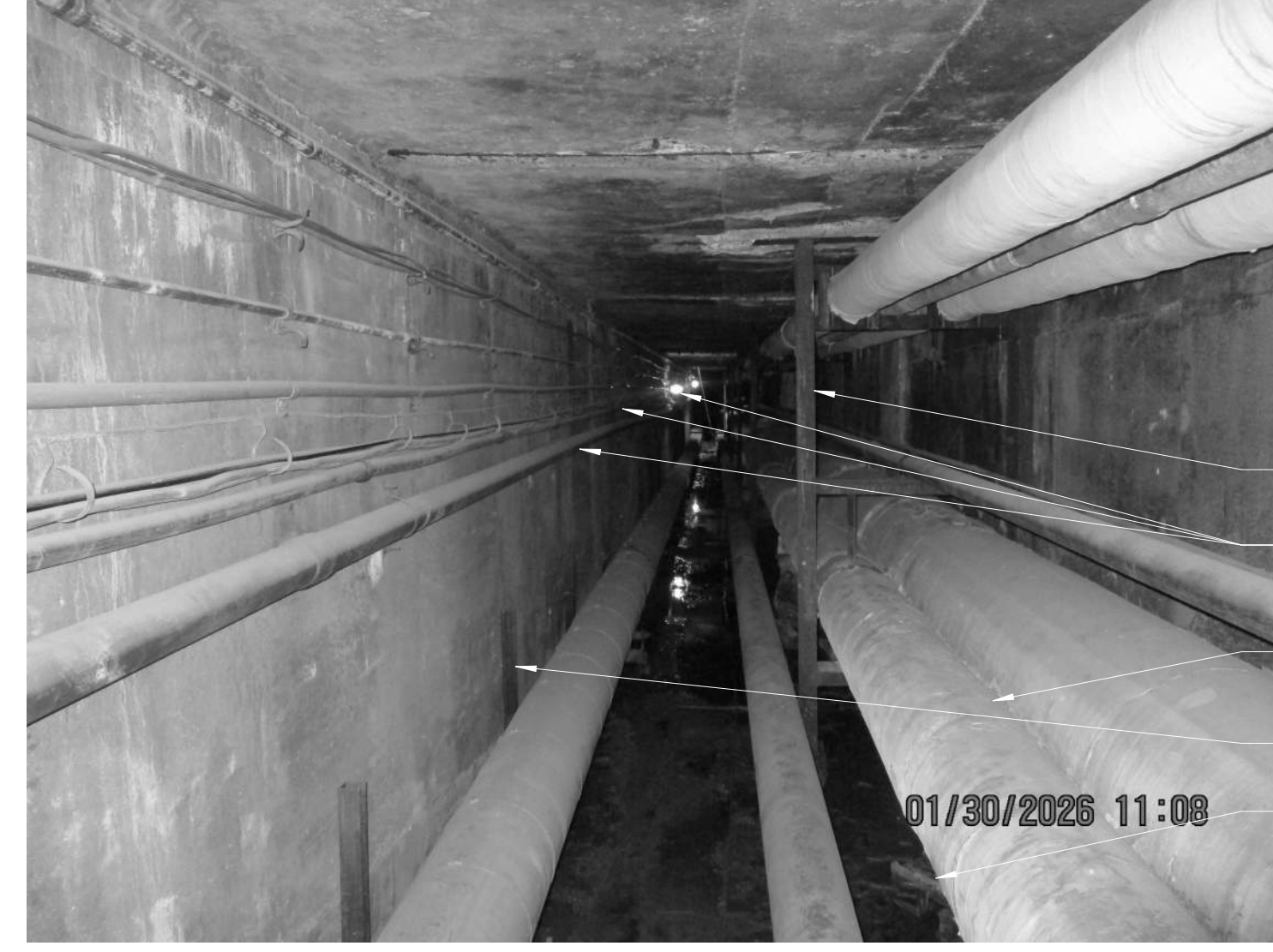
REMOVAL OF ALL ABANDONED UTILITIES (INCLUDING PIPES, CONDUIT, CABLE, BOXES, STANDS/SUPPORTS, ALL ASSOCIATED APPARATUS AND MISC. DEBRIS) IN TUNNELS AND VAULTS TO BE COMPLETED BY OTHERS UNLESS NOTED OTHERWISE. UTILITIES TO REMAIN ARE NOTED ON INDIVIDUAL BULKHEAD SHEETS.

2



- REMOVE CONDUIT AND CABLE BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE DEBRIS BY OTHERS, TYP

A3 CROSS TIE TUNNEL
NOT TO SCALE



- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE CONDUIT, CABLE, AND LIGHT BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE DEBRIS BY OTHERS, TYP

C3 MAIN TUNNEL
NOT TO SCALE



- REMOVE CABLES AND CONDUITS BY OTHERS, TYP
- SHORING TO REMAIN
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP

F3 MAIN TUNNEL SHORING
1/2" = 1'-0" 0' 3'

3



- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE CONDUIT AND CABLE BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP
- REMOVE DEBRIS BY OTHERS, TYP

A5 MAIN TUNNEL
NOT TO SCALE



- REMOVE PIPE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE CONDUIT AND CABLE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE DEBRIS BY OTHERS, TYP

C5 LAUNDRY TUNNEL
NOT TO SCALE



- REMOVE CONDUIT, CABLE, AND LIGHT BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP

F5 SUPPLY DEPOT TUNNEL
NOT TO SCALE

NOTES:
1. EXISTING SHORING NOT SHOWN, SHORING IS TO REMAIN.

4



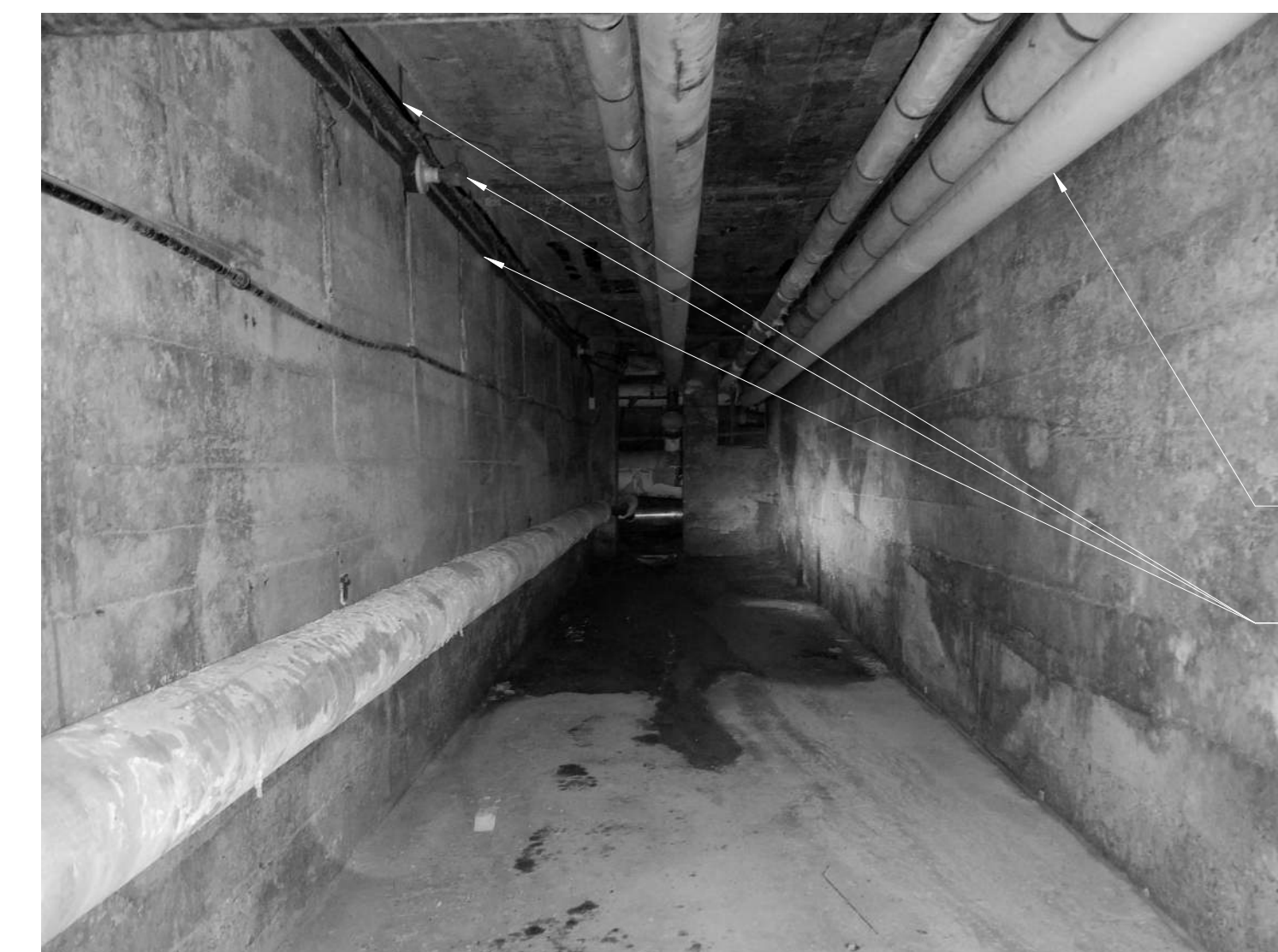
- REMOVE CABLE BY OTHERS, TYP
- REMOVE PIPE BY OTHERS, TYP
- REMOVE SUPPORT BY OTHERS, TYP
- REMOVE HANGER BY OTHERS, TYP
- REMOVE CONDUIT BY OTHERS

A6 LINDEN COURT TUNNEL
1/2" = 1'-0" 0' 3'



- REMOVE PIPE BY OTHERS, TYP
- REMOVE CONDUIT AND CABLE BY OTHERS, TYP
- REMOVE DEBRIS BY OTHERS, TYP

C6 CHILLER BUILDING TUNNEL
NOT TO SCALE



- REMOVE PIPE BY OTHERS, TYP
- REMOVE CONDUIT, CABLE, AND LIGHT BY OTHERS, TYP

F6 MEDICAL CENTER TUNNEL
NOT TO SCALE

DRAWN BY	CAN
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	



REMOVE SUPPORT BY OTHERS, TYP

REMOVE PIPE BY OTHERS, TYP

REMOVE DEBRIS BY OTHERS, TYP

(A2) ELMCREST TUNNEL
NOT TO SCALE



REMOVE CONDUIT, CABLE, AND LIGHT BY OTHERS, TYP

REMOVE METAL CABLE BY OTHERS

REMOVE PIPE BY OTHERS, TYP

REMOVE SUPPORT BY OTHERS

(C2) MAPLE LODGE TUNNEL
NOT TO SCALE



REMOVE SUPPORT BY OTHERS, TYP

REMOVE PIPE BY OTHERS, TYP

REMOVE CONDUIT AND CABLE BY OTHERS, TYP

REMOVE DEBRIS BY OTHERS, TYP

(F2) EMPLOYEES HOME TUNNEL
NOT TO SCALE

REMOVAL OF ALL ABANDONED UTILITIES (INCLUDING PIPES, CONDUIT, CABLE, BOXES, STANDS/SUPPORTS, ALL ASSOCIATED APPARATUS AND MISC. DEBRIS) IN TUNNELS AND VAULTS TO BE COMPLETED BY OTHERS UNLESS NOTED OTHERWISE. UTILITIES TO REMAIN ARE NOTED ON INDIVIDUAL BULKHEAD SHEETS.



REMOVE PIPE BY OTHERS, TYP

REMOVE SUPPORT BY OTHERS, TYP

REMOVE CONDUIT AND LIGHT BY OTHERS, TYP

REMOVE DEBRIS BY OTHERS, TYP

(A3) MYERS HALL TUNNEL
NOT TO SCALE



REMOVE CONDUIT AND CABLE BY OTHERS, TYP

REMOVE SUPPORT BY OTHERS, TYP

REMOVE PIPE BY OTHERS, TYP

REMOVE DEBRIS BY OTHERS, TYP

(C3) LARCHES TUNNEL
NOT TO SCALE



REMOVE CONDUIT AND CABLE BY OTHERS

REMOVE PIPE BY OTHERS, TYP

REMOVE SUPPORT BY OTHERS, TYP

REMOVE DEBRIS BY OTHERS, TYP

(F3) WESTWOOD TUNNEL
NOT TO SCALE



REMOVE CABLE BY OTHERS, TYP

REMOVE SUPPORT BY OTHERS, TYP

REMOVE DEBRIS BY OTHERS, TYP

(A5) ADMINISTRATION BUILDING TUNNEL
NOT TO SCALE



REMOVE CONDUIT AND CABLE BY OTHERS, TYP

REMOVE PIPE BY OTHERS, TYP

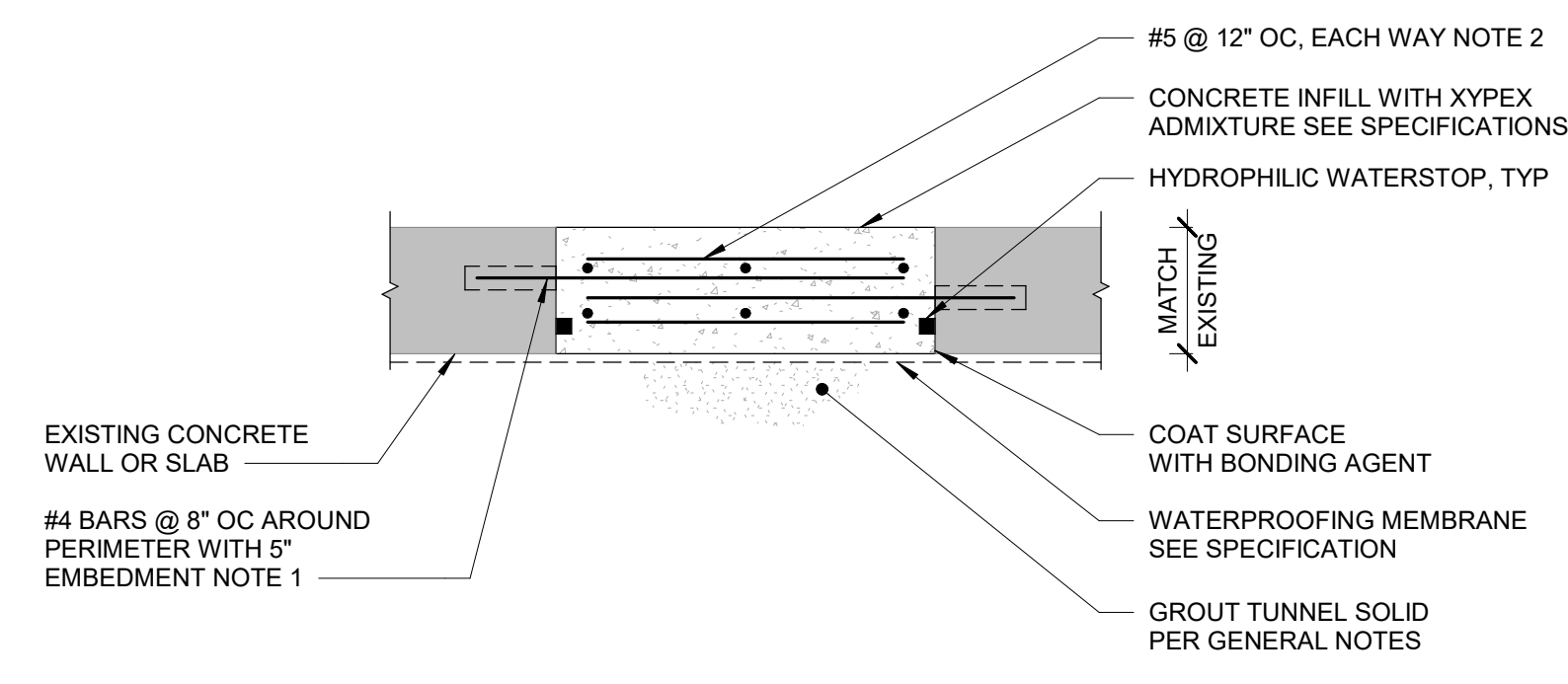
REMOVE DEBRIS BY OTHERS, TYP

REMOVE SUPPORT BY OTHERS, TYP

(C5) HEMLOCK TUNNEL
NOT TO SCALE

DRAWN BY	CNN
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007940
FIELD BOOK	



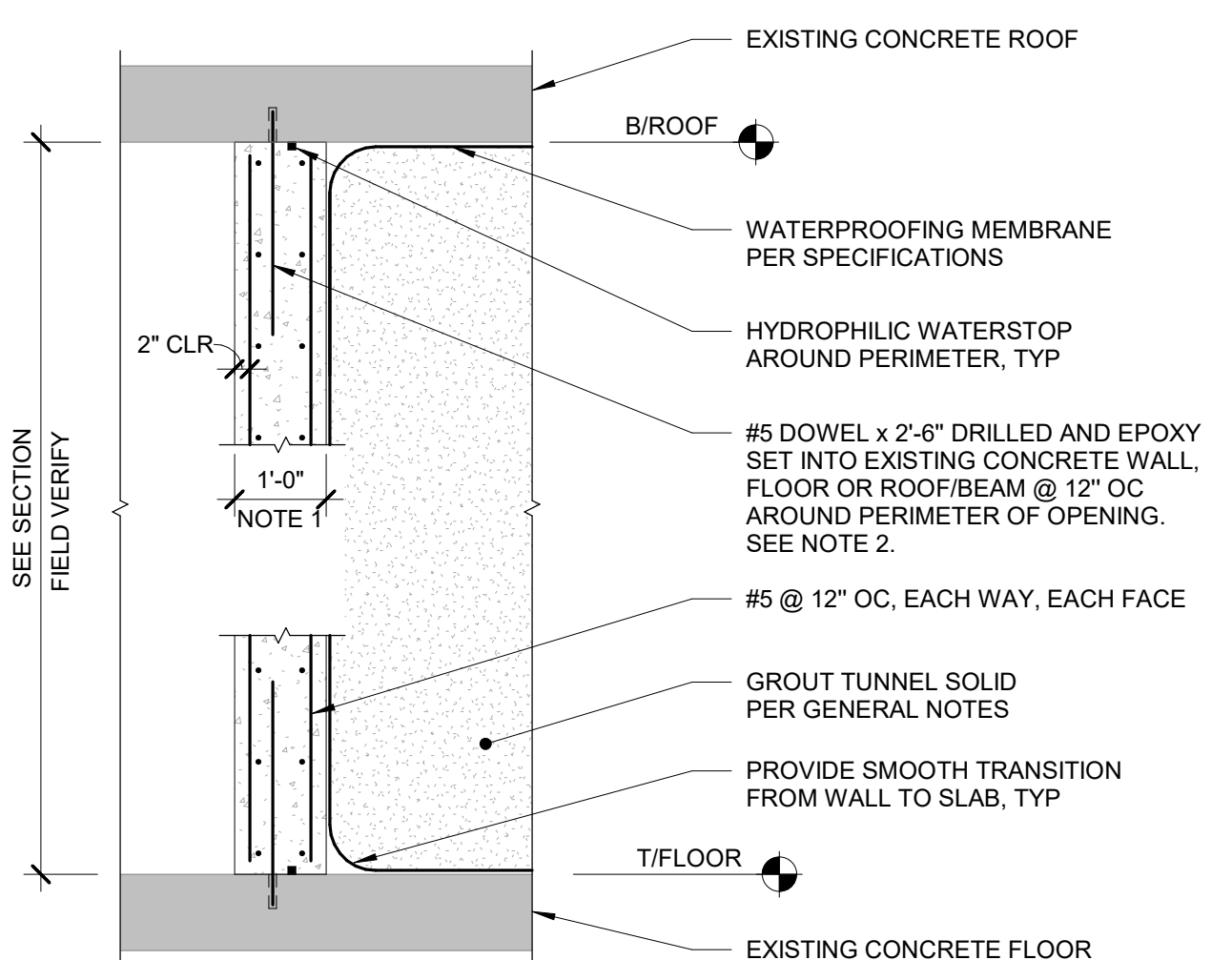
- NOTES:**
- IF MAXIMUM DIMENSION OF OPENING IS 8" OR LESS, REPLACE #4 BARS WITH (3) 1/4" Ø STAINLESS STEEL THREADED RODS DRILLED AND EPOXY SET WITH 4" EMBEDMENT.
 - ADDITIONAL REINFORCEMENT IS ONLY REQUIRED FOR OPENINGS LARGER THAN 2'-0". ADD REINFORCEMENT ON EACH FACE IF THE EXISTING CONCRETE IS THICKER THAN 8".

A2 INFILL EXISTING OPENING, TYP
1" = 1'-0"

DIAMETER	MINIMUM EMBEDMENT IN CONCRETE LINO
#4	5"
#5	6"
#6	6"
#7	8"

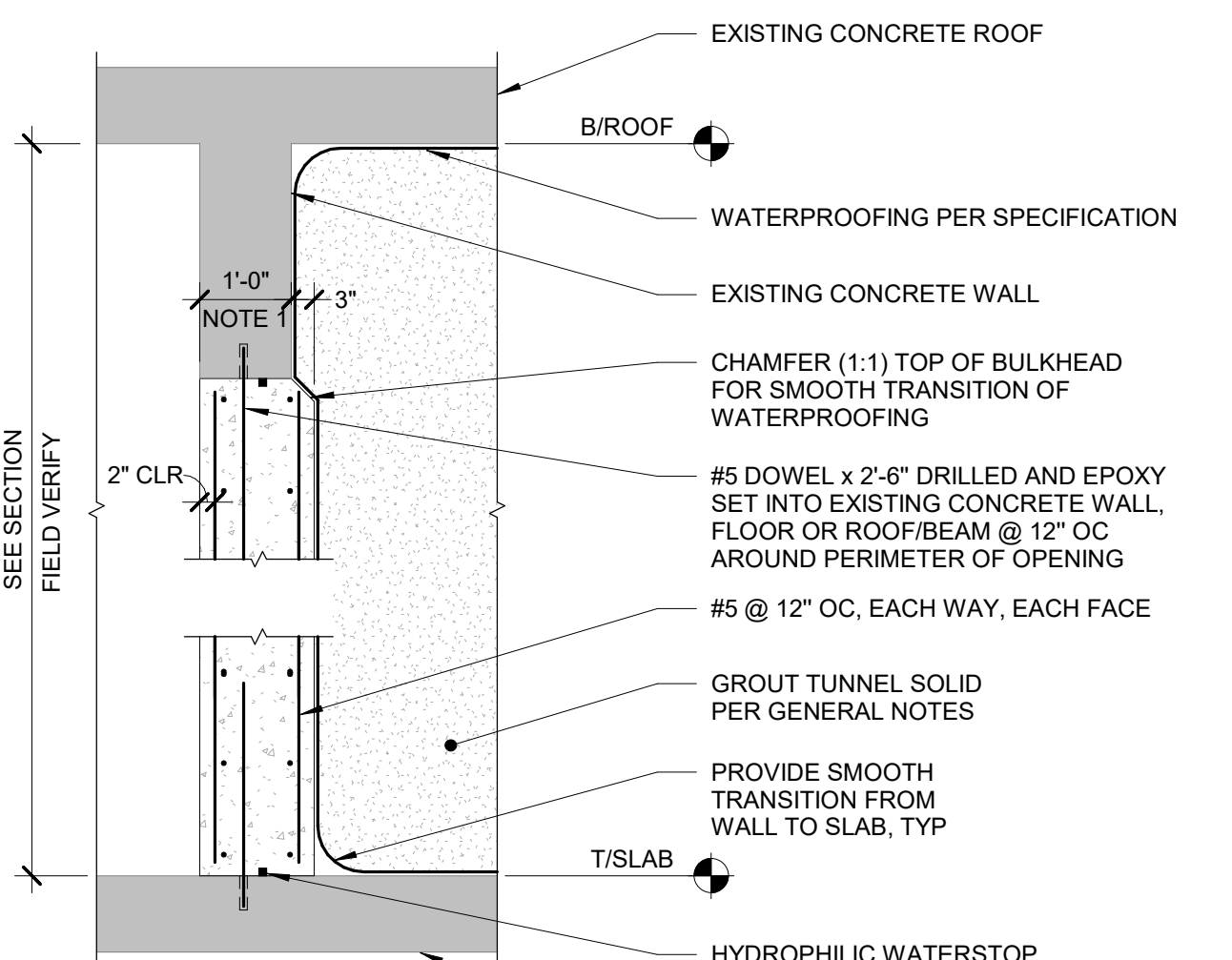
- NOTES:**
- EPOXY SHALL BE C6 EPOXY ADHESIVE BY RED HEAD, HIT RE-500 V3 BY HILTI, OR APPROVED EQUAL.

C2 REBAR EMBEDMENT SCHEDULE
1" = 1'-0"



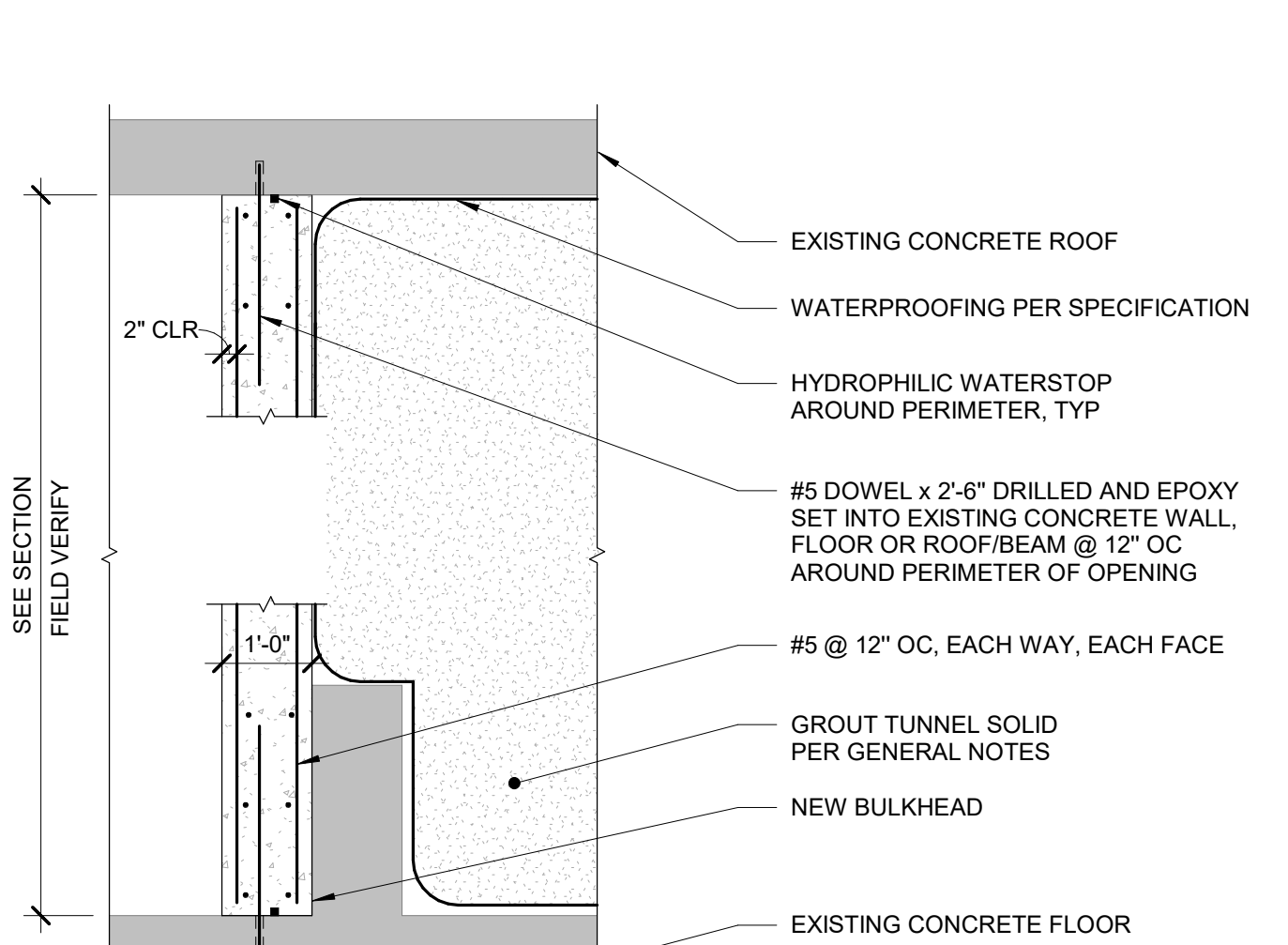
- NOTES:**
- BULKHEAD WILL BE 1'-4" THICK AT MYERS HALL TO MATCH THE EXISTING WALL THICKNESS, FIELD VERIFY.
 - USE #4 DOWEL x 2'-6", DRILL AND EPOXY SET INTO EXISTING CONCRETE ROOF @ 12" OC (2.75" EMBED) AT LAUNDRY TUNNEL ROOF.

D2 BULKHEAD DETAIL
1/2" = 1'-0"



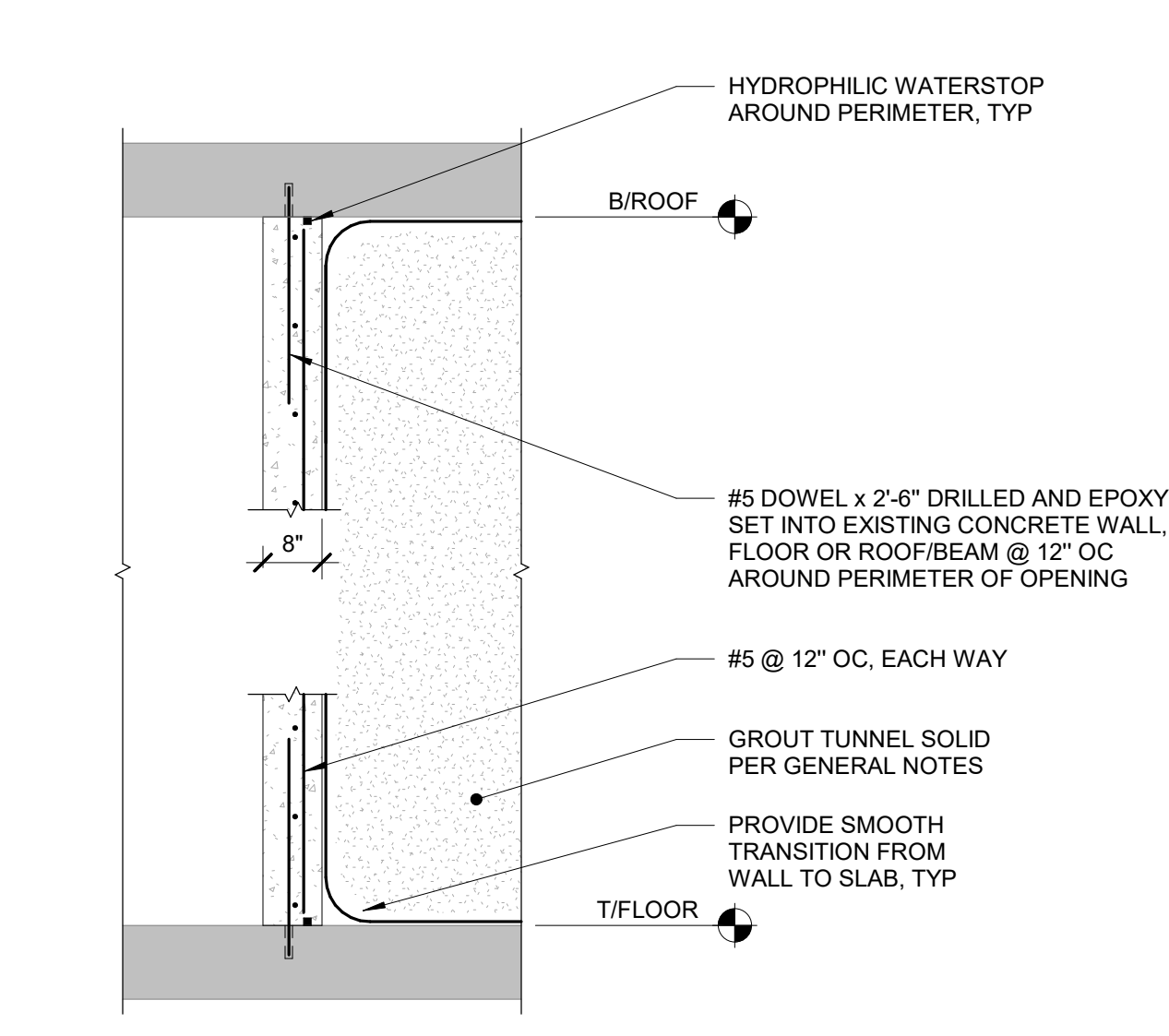
- NOTES:**
- BULKHEAD WILL BE 1'-9" THICK AT LARCHES TO MATCH THE EXISTING WALL THICKNESS, FIELD VERIFY.

E2 BULKHEAD DETAIL
1/2" = 1'-0"



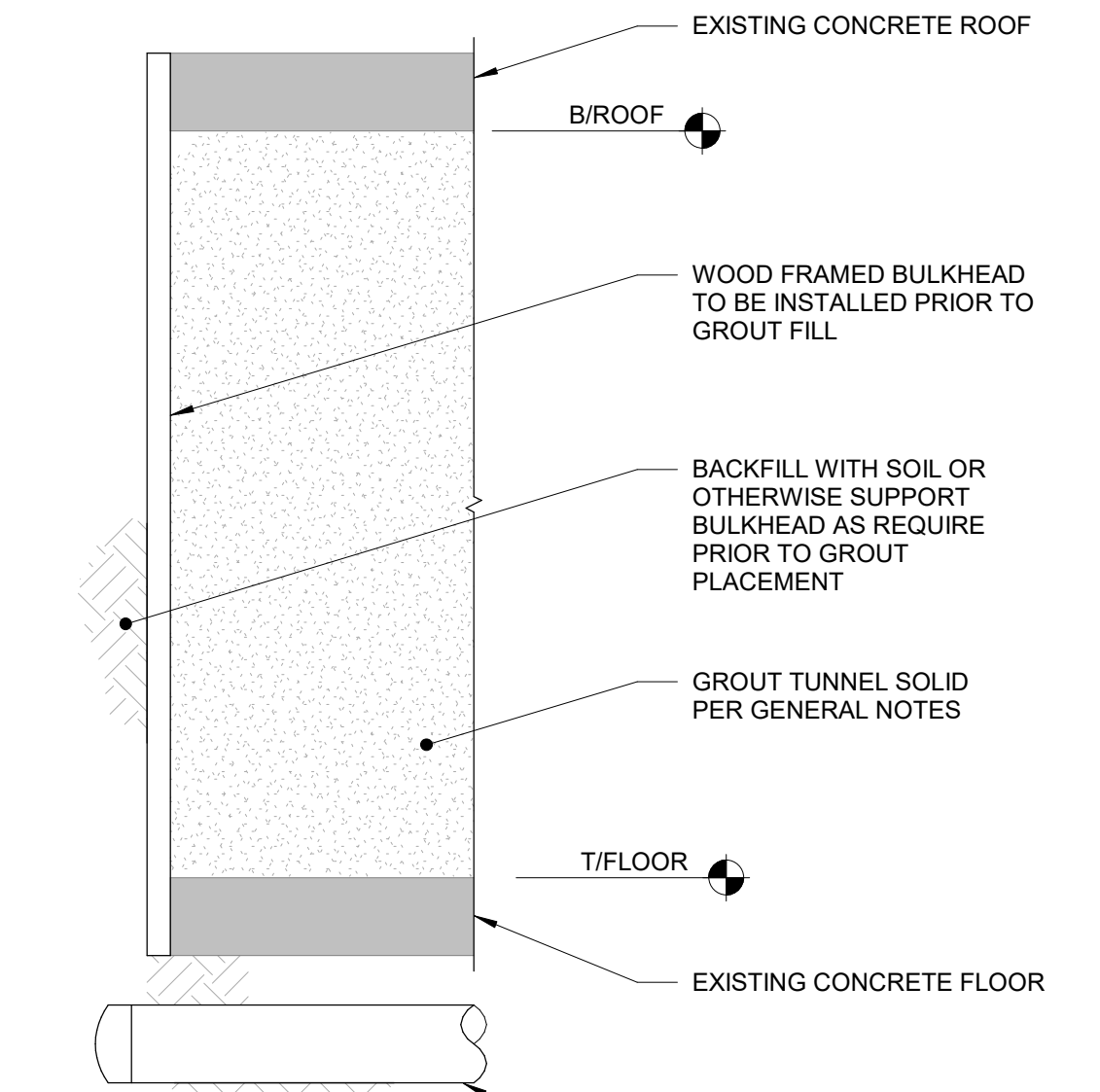
- NOTES:**
- BULKHEAD WILL BE 1'-9" THICK AT LARCHES TO MATCH THE EXISTING WALL THICKNESS, FIELD VERIFY.

G2 BULKHEAD DETAIL
1/2" = 1'-0"

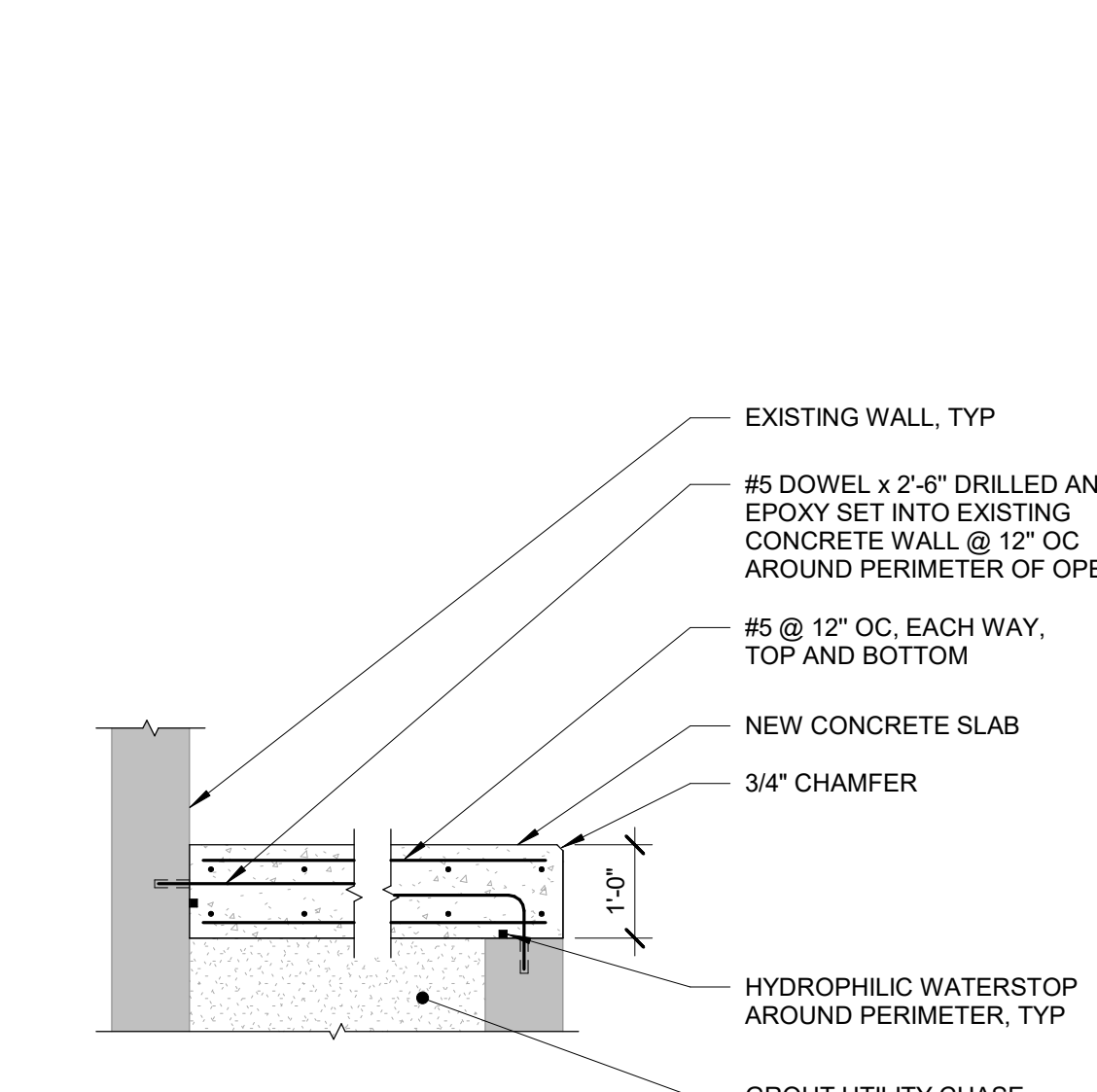


- NOTES:**
- SEE SECTION FOR TOP AND BOTTOM CONNECTION SLOPE CONDITIONS.

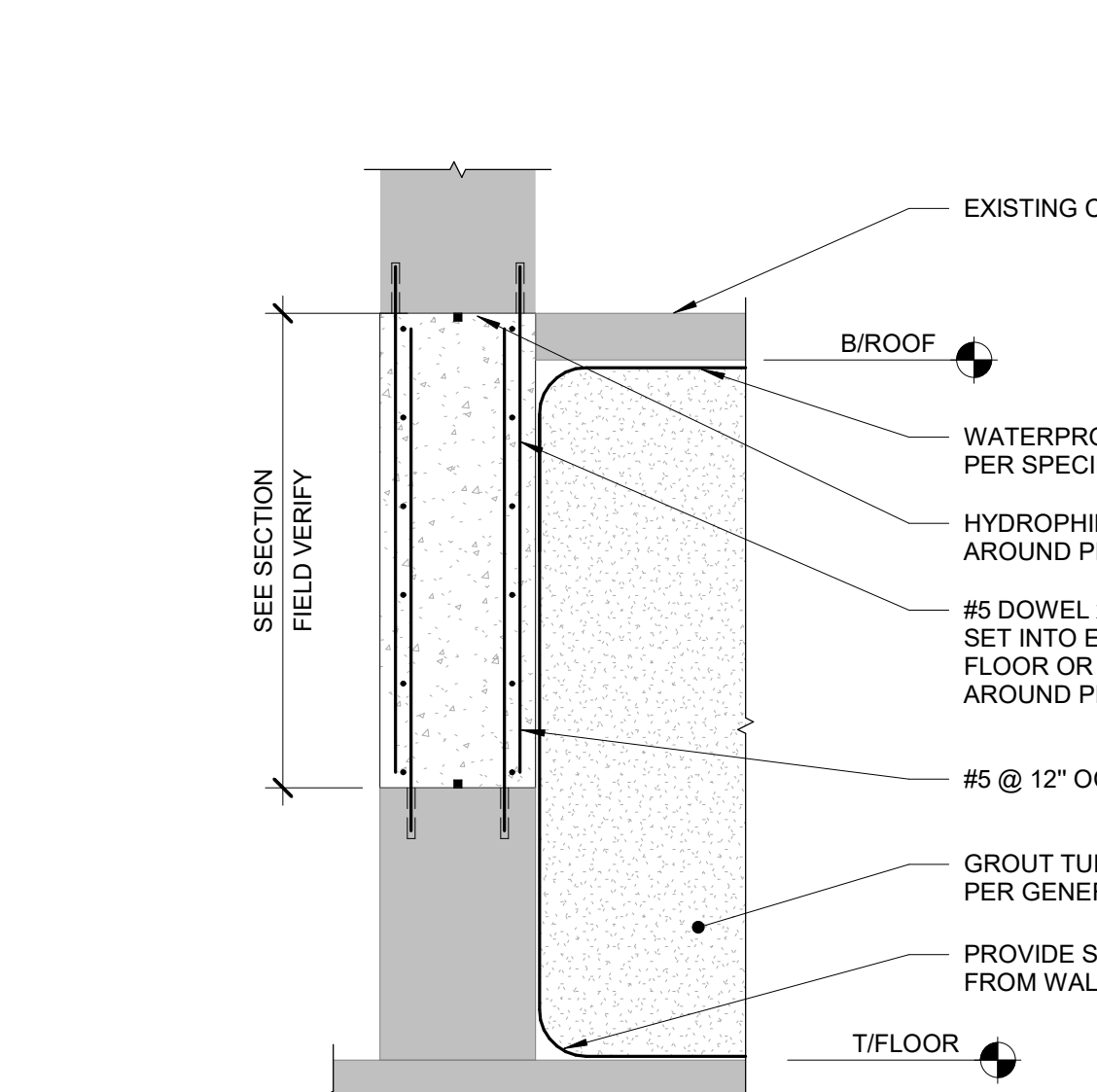
A4 8" THICK BULKHEAD DETAIL
1/2" = 1'-0"



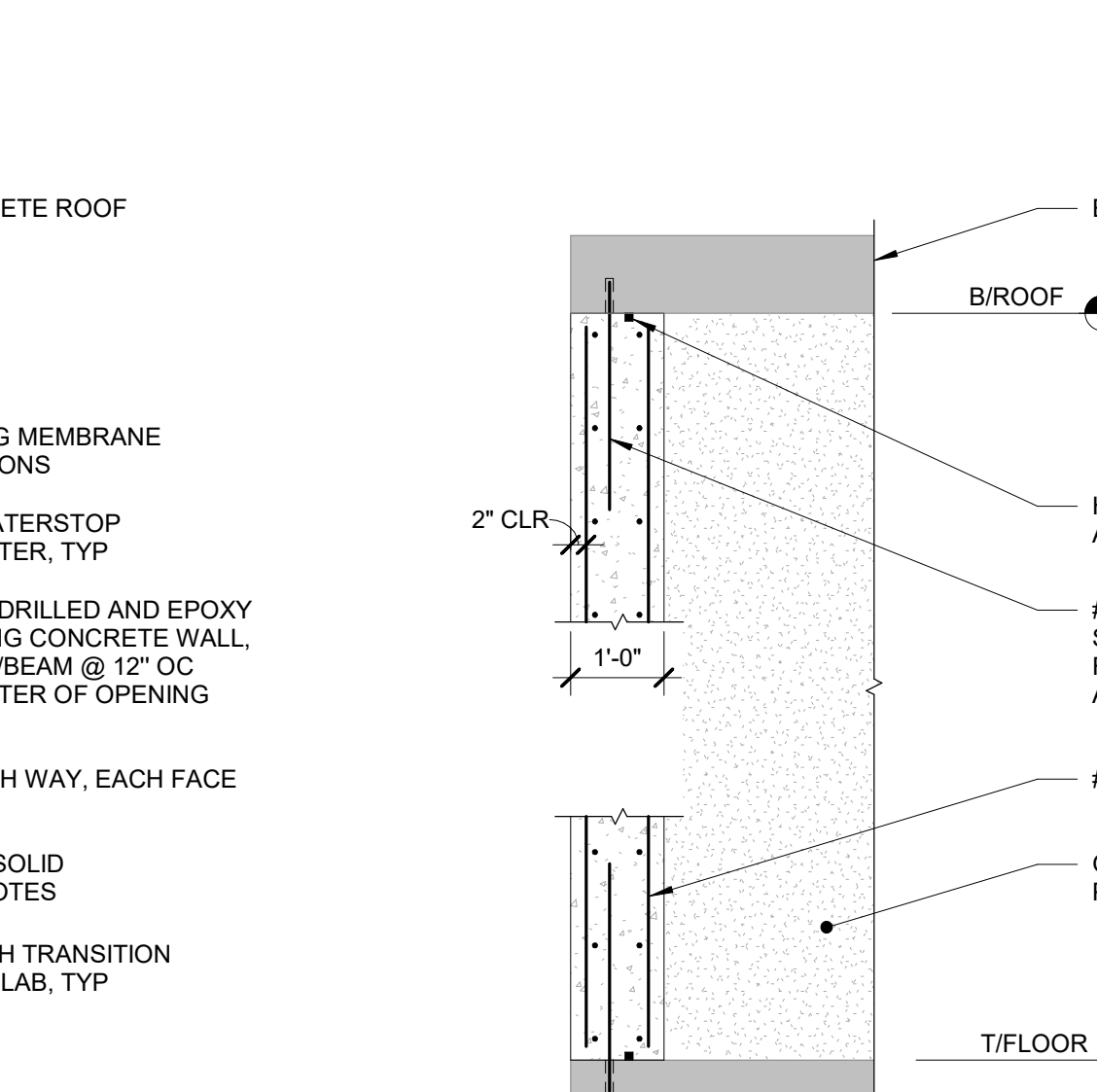
B4 WOOD FRAMED BULKHEAD DETAIL
1/2" = 1'-0"



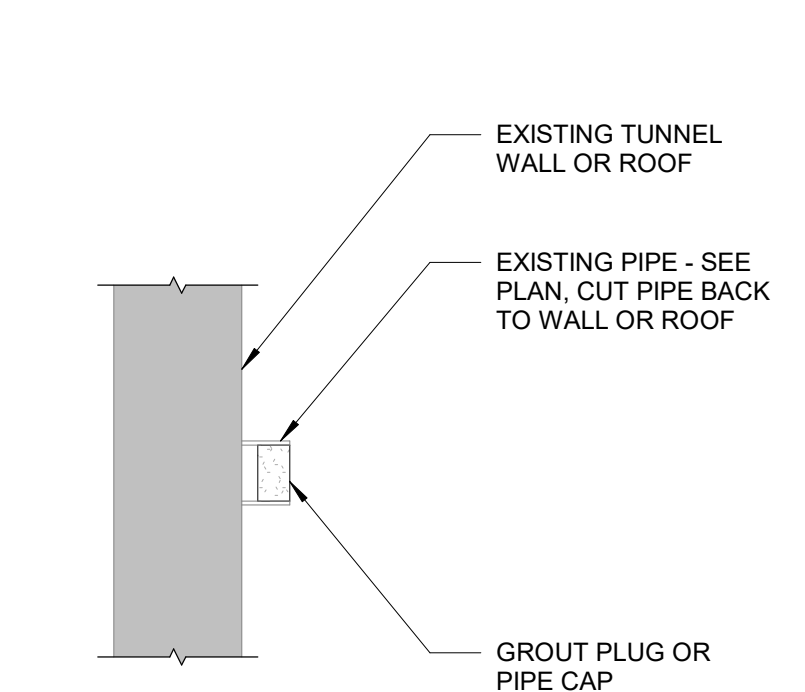
D4 CAR WASH BULKHEAD DETAIL
1/2" = 1'-0"



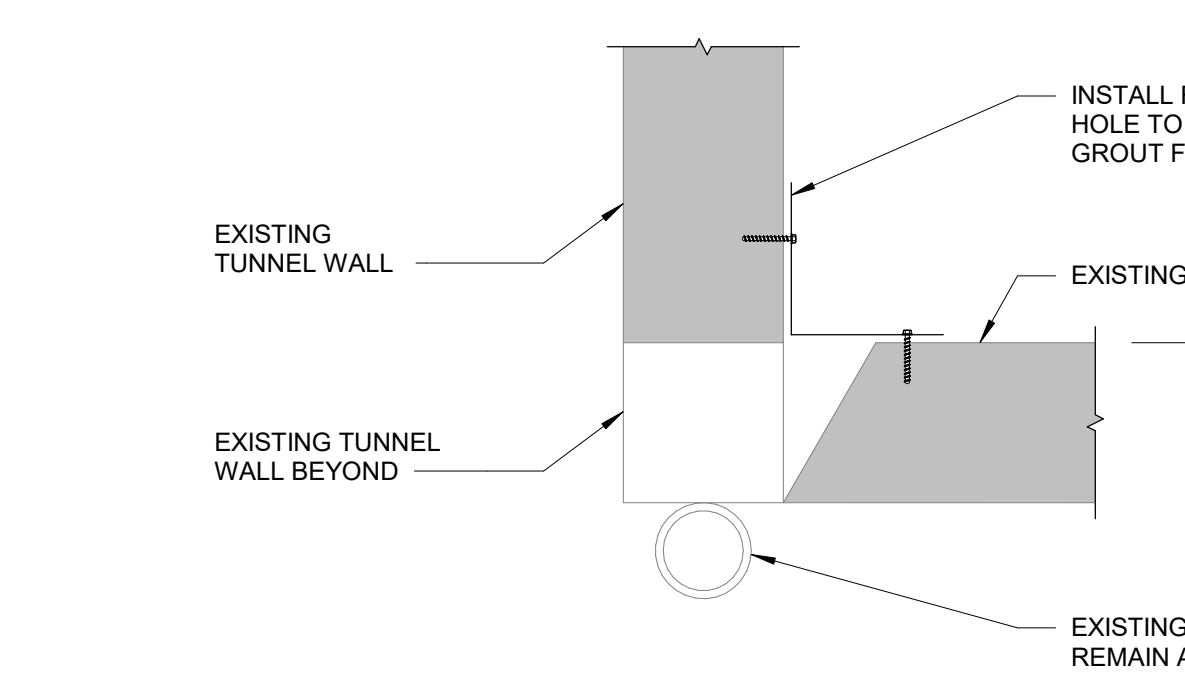
E4 OAK HALL BULKHEAD DETAIL
1/2" = 1'-0"



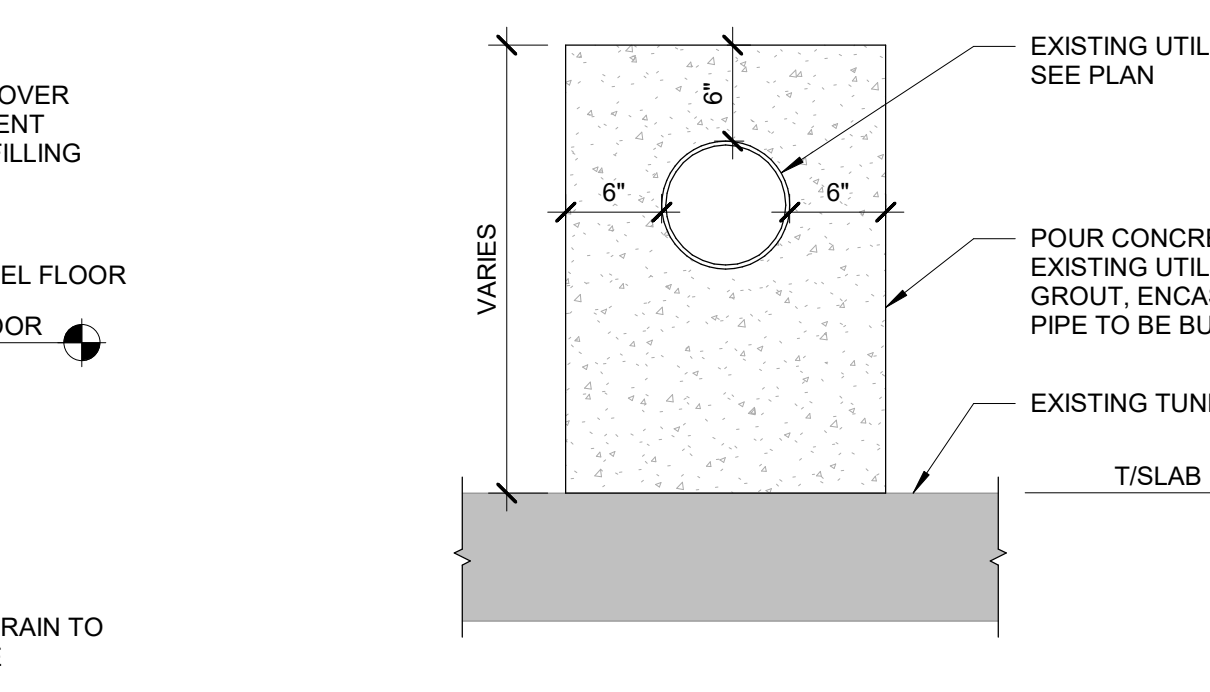
G4 UTILITY CHASE BULKHEAD DETAIL
1/2" = 1'-0"



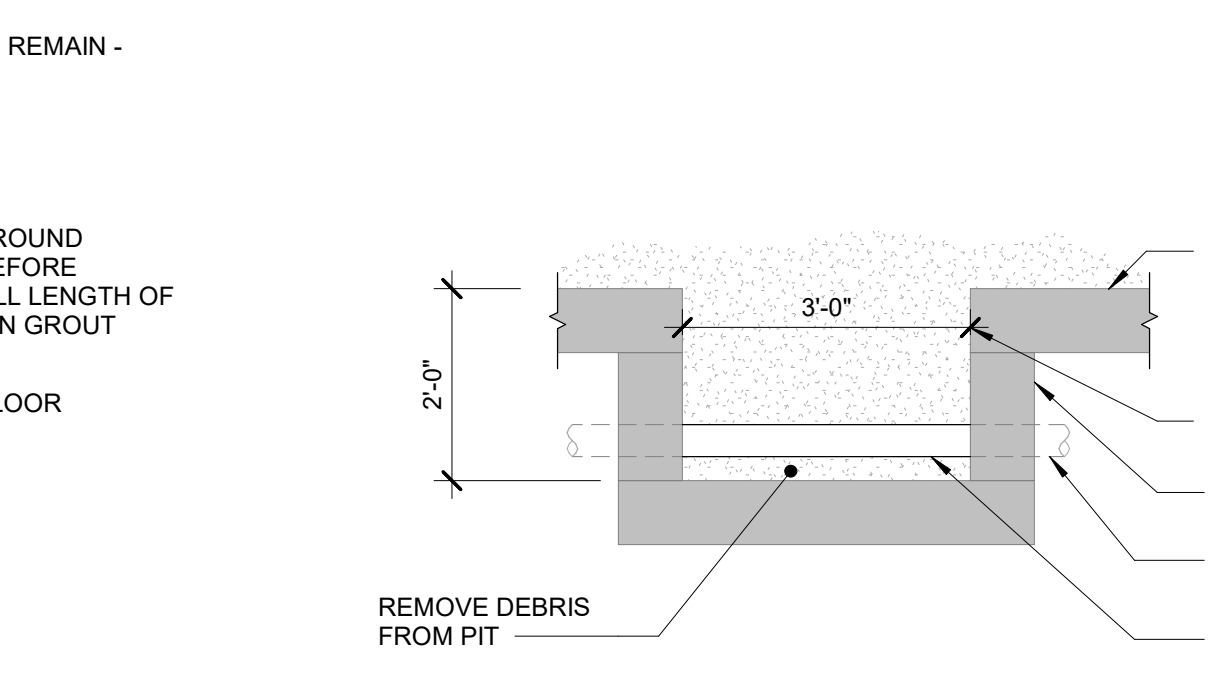
A5 TYPICAL PIPE CAPPING DETAIL
1" = 1'-0"



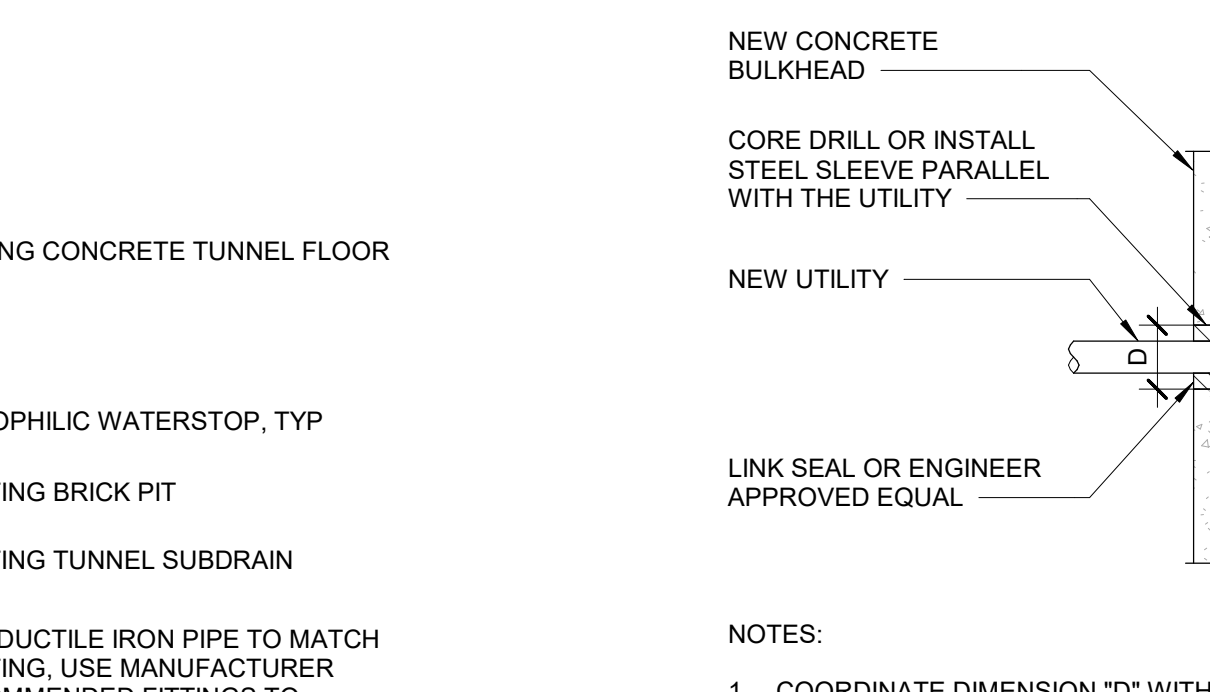
B5 SUBDRAIN INFILL DETAIL
1" = 1'-0"



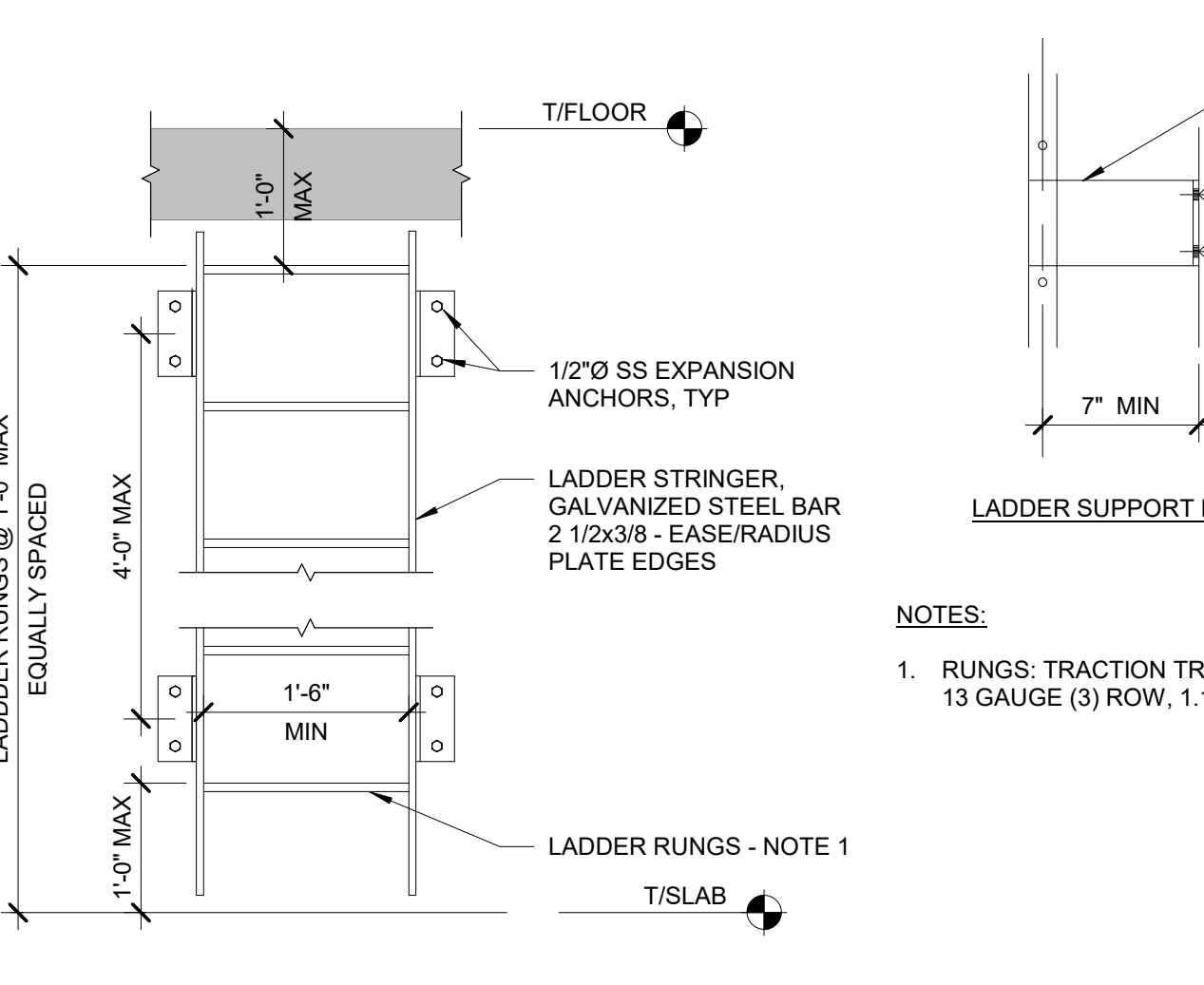
C5 EXISTING UTILITY CONCRETE ENCASEMENT
1" = 1'-0"



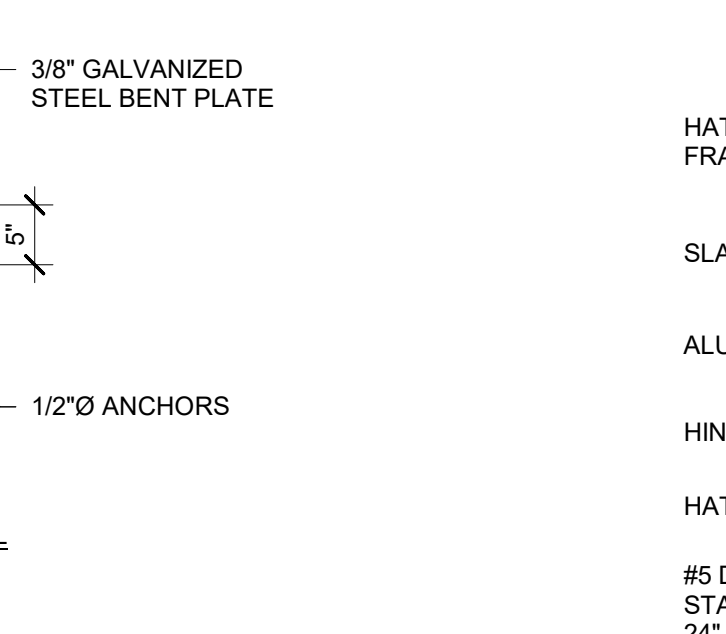
E5 CROSS TIE TUNNEL PIT INFILL
NOT TO SCALE



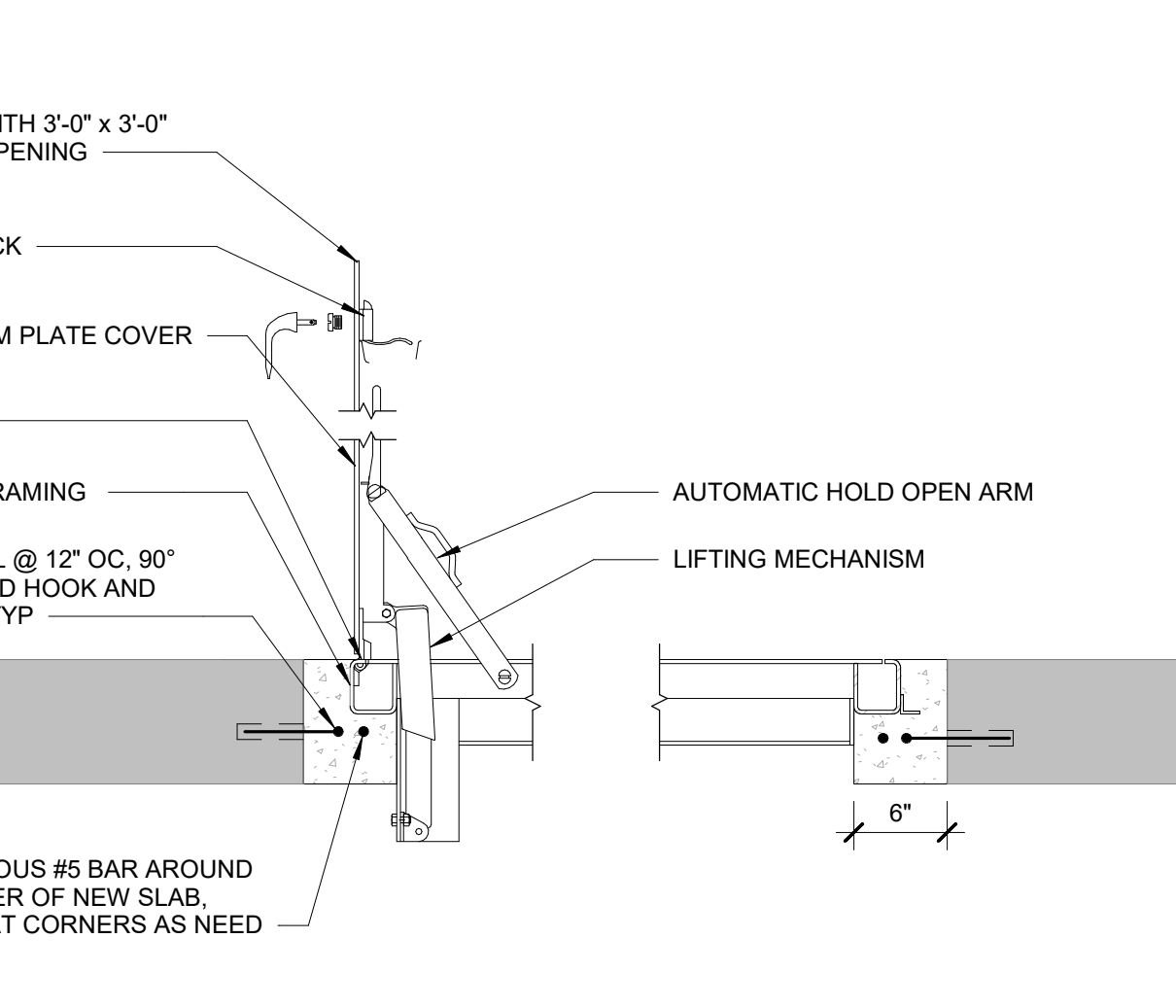
G5 PENETRATION FOR UTILITIES AT BULKHEAD
1/2" = 1'-0"



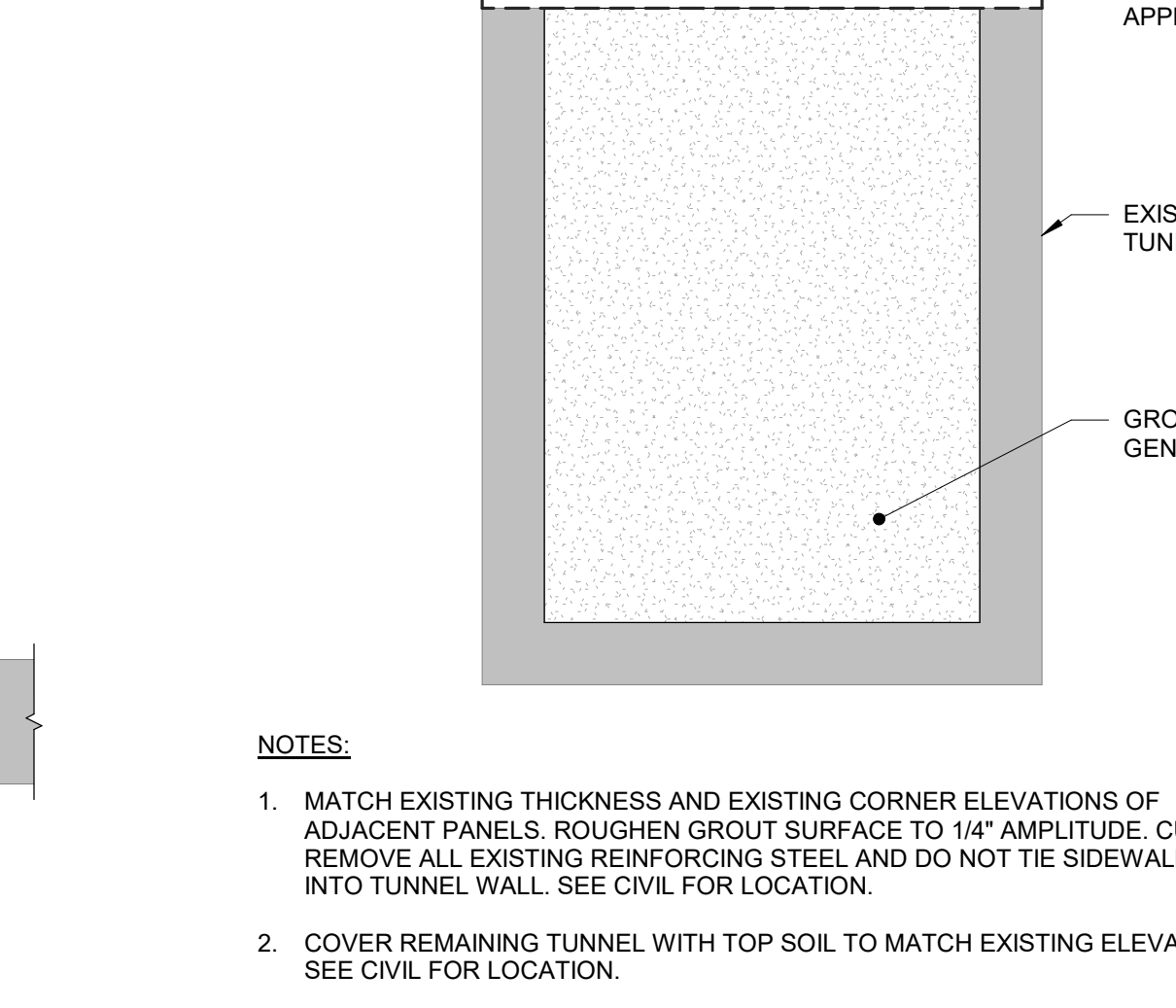
A6 LADDER DETAIL
3/4" = 1'-0"



- NOTES:**
- RUNGS: TRACTION TREAD LADDER RUNGS, GALVANIZED 13 GAUGE (3) ROW, 1.125" DEPTH x 1.625" WIDE.

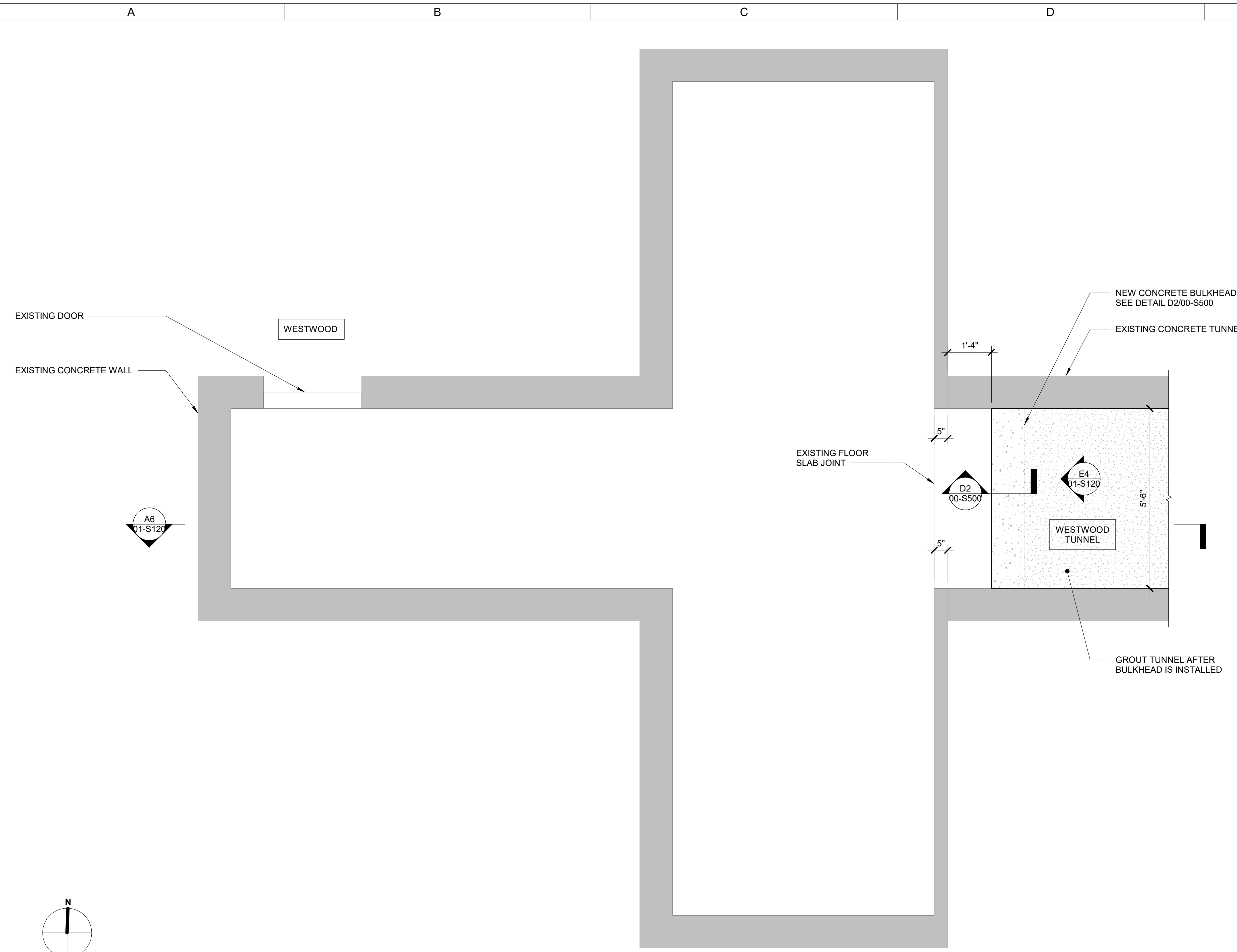


C6 HATCH DETAIL
1" = 1'-0"



E6 TUNNEL CAP/SIDEWALK REMOVAL AND REPLACEMENT
1/2" = 1'-0"

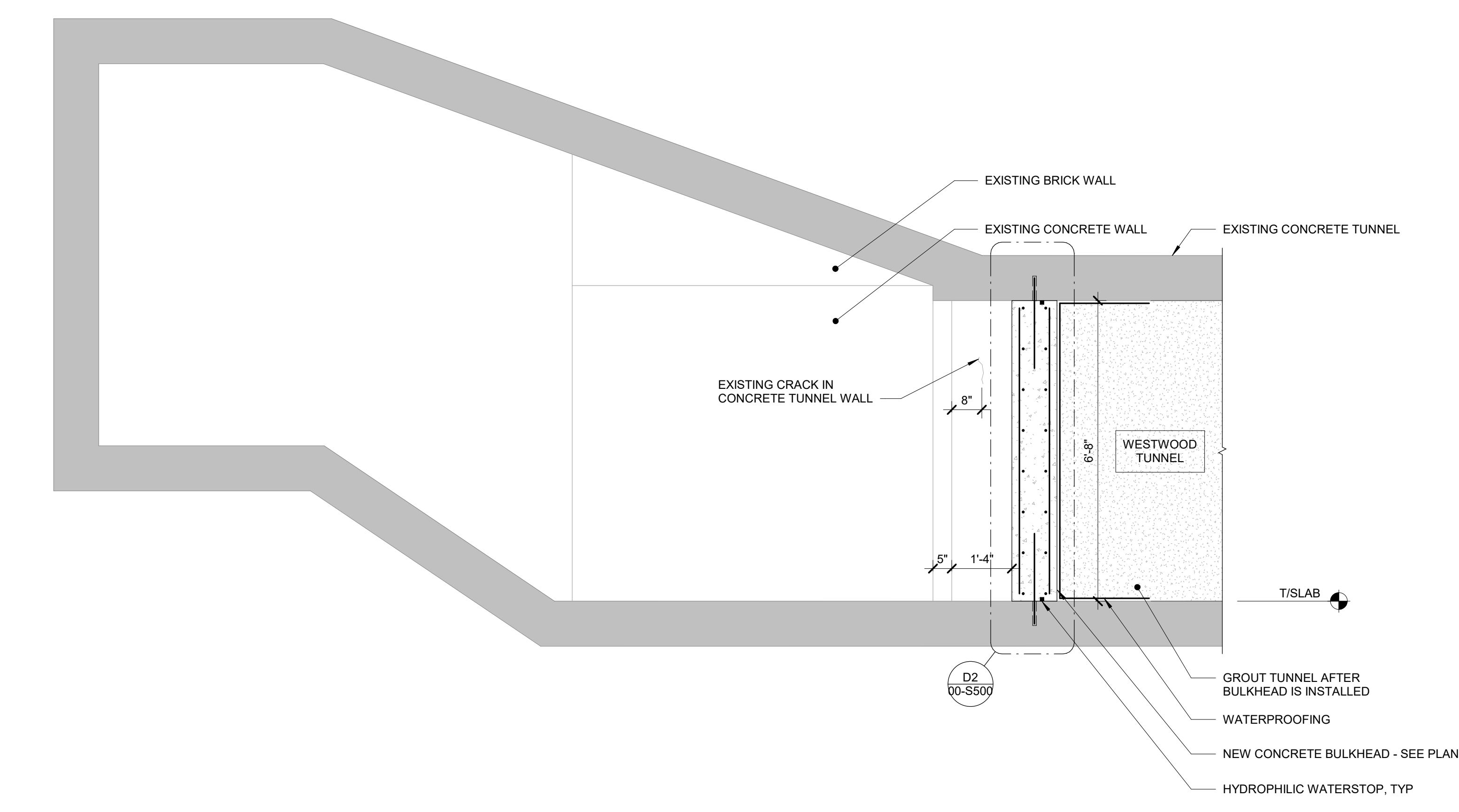
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A4 WESTWOOD PLAN
1/2" = 1'-0" 0' 3'



E4 WESTWOOD BUILDING CONNECTION
NOT TO SCALE



A6 WESTWOOD SECTION
1/2" = 1'-0" 0' 3'

**IA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

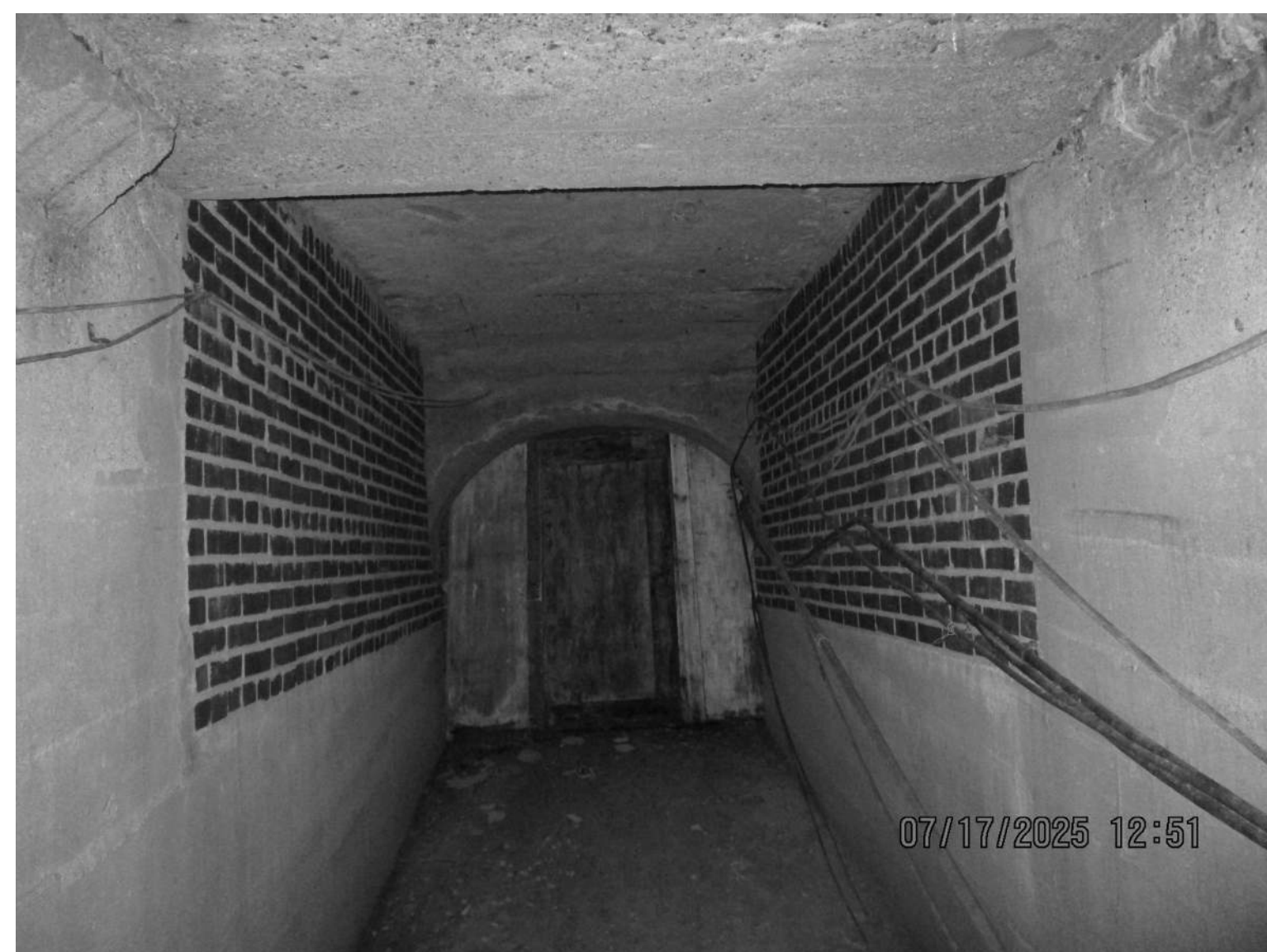
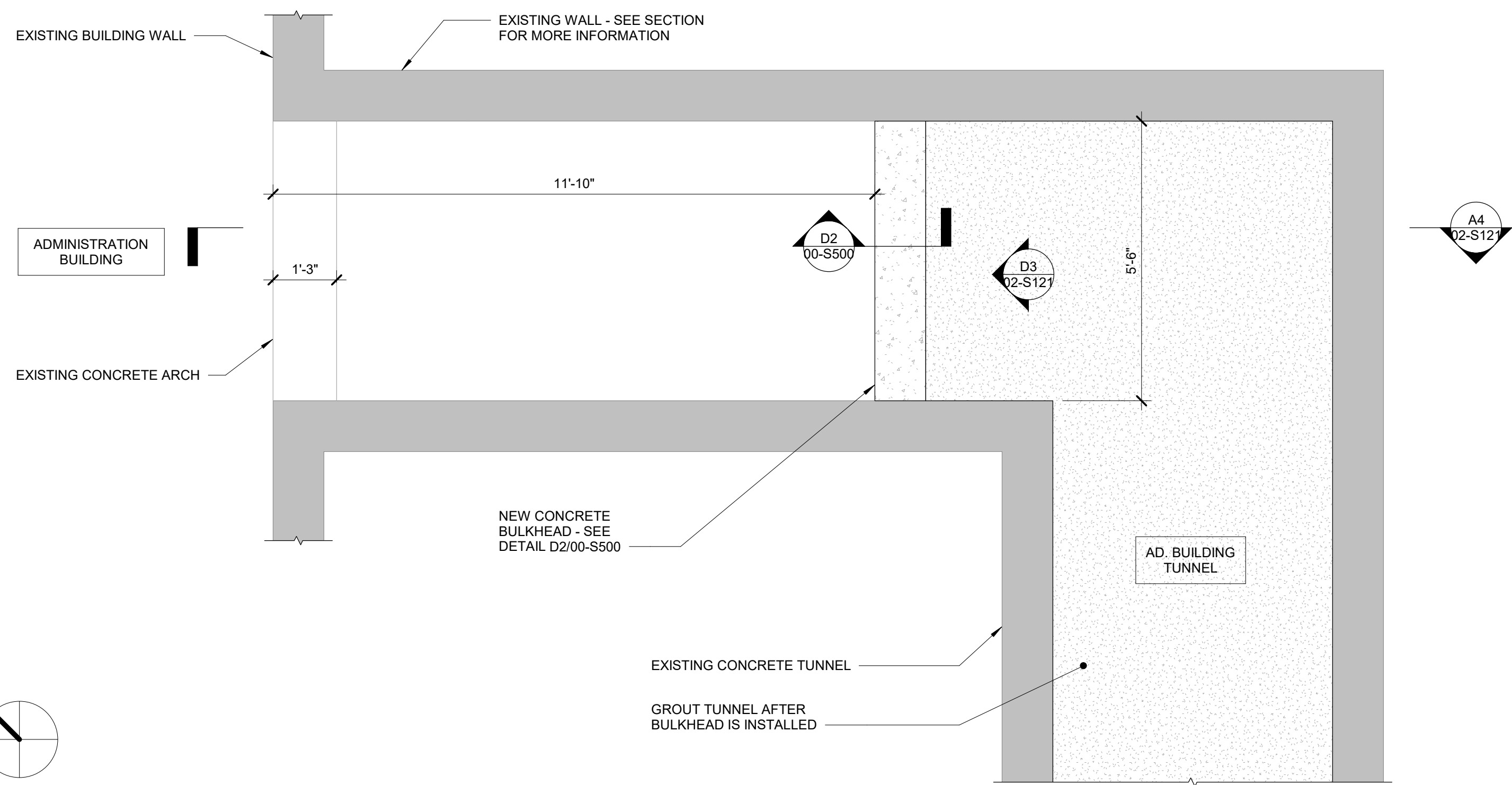
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE PROJECT NUMBER: 2473-20
34 CEDAR ST., WOODWARD, IA 50276

WESTWOOD	DRAWN BY	KAB
	APPROVED BY	MM
	ISSUED FOR	100% CD
	ISSUE DATE	04/24/2025
	PROJECT NUMBER	240007040
	FIELD BOOK	

WESTWOOD

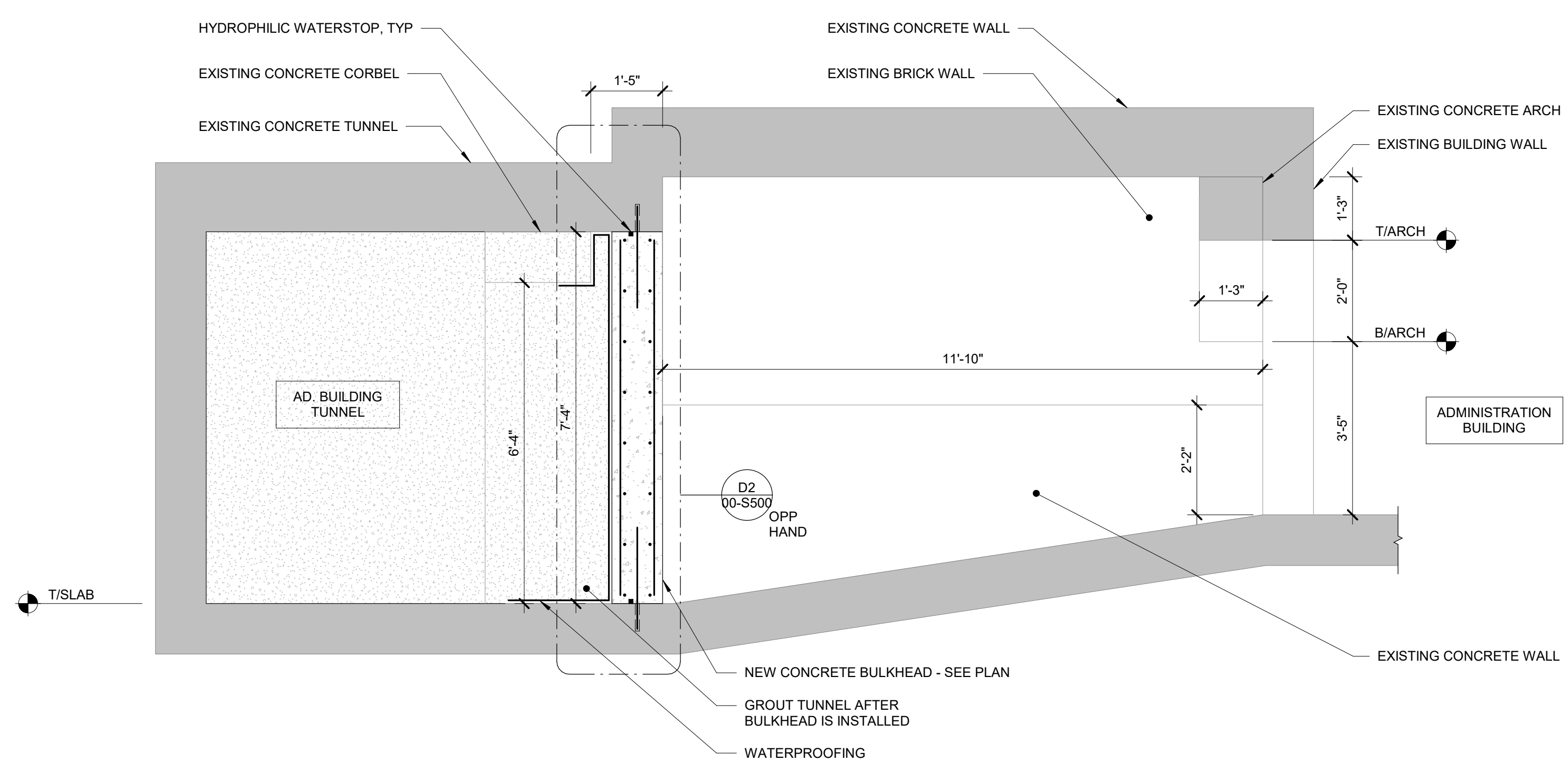
01-S120

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.

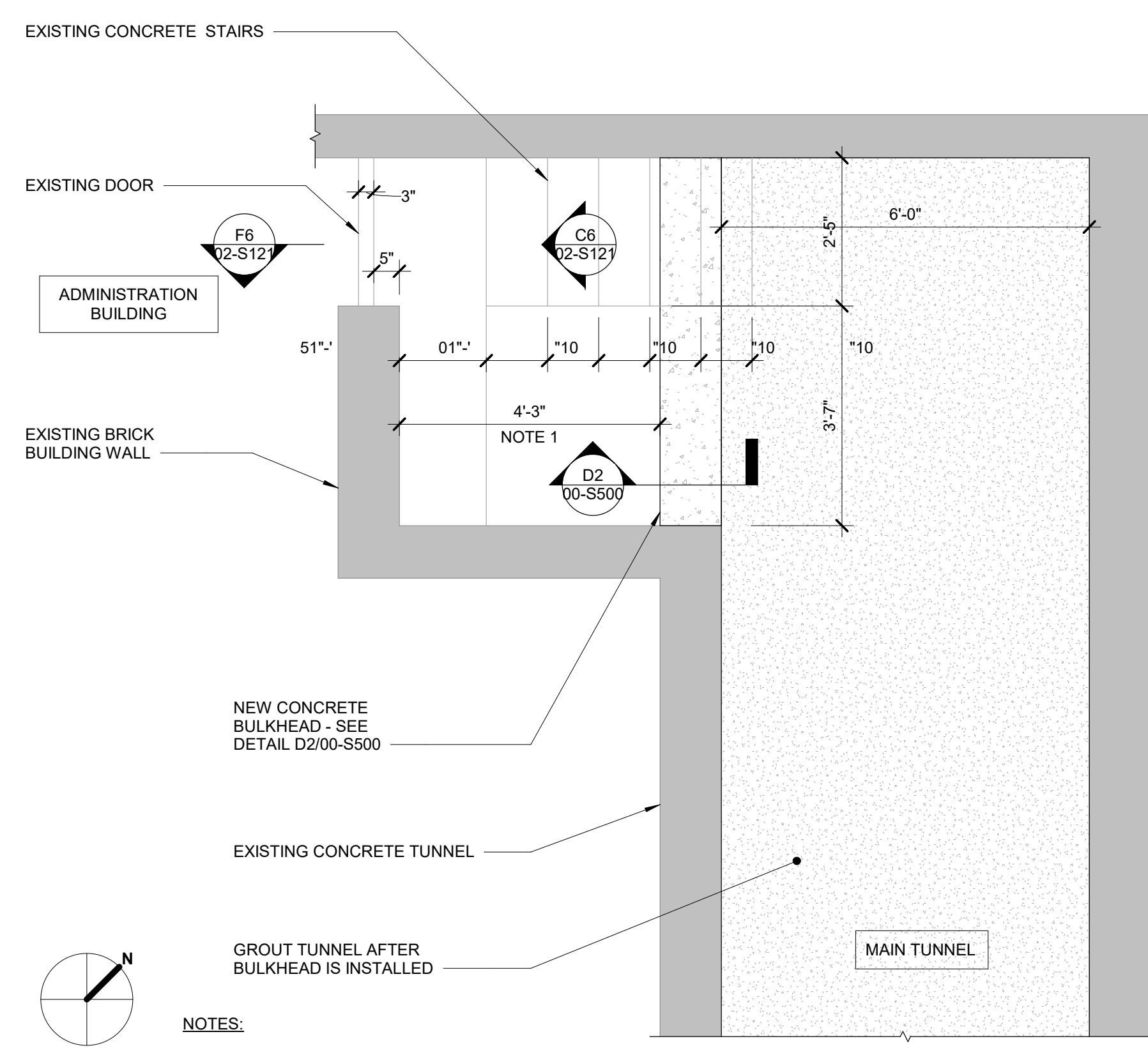


A3 ADMINISTRATION BUILDING PLAN AT AD. BUILDING TUNNEL
1/2" = 1'-0" 0' 3"

D3 AD. BUILDING TUNNEL BUILDING CONNECTION TO ADMINISTRATION BUILDING
NOT TO SCALE



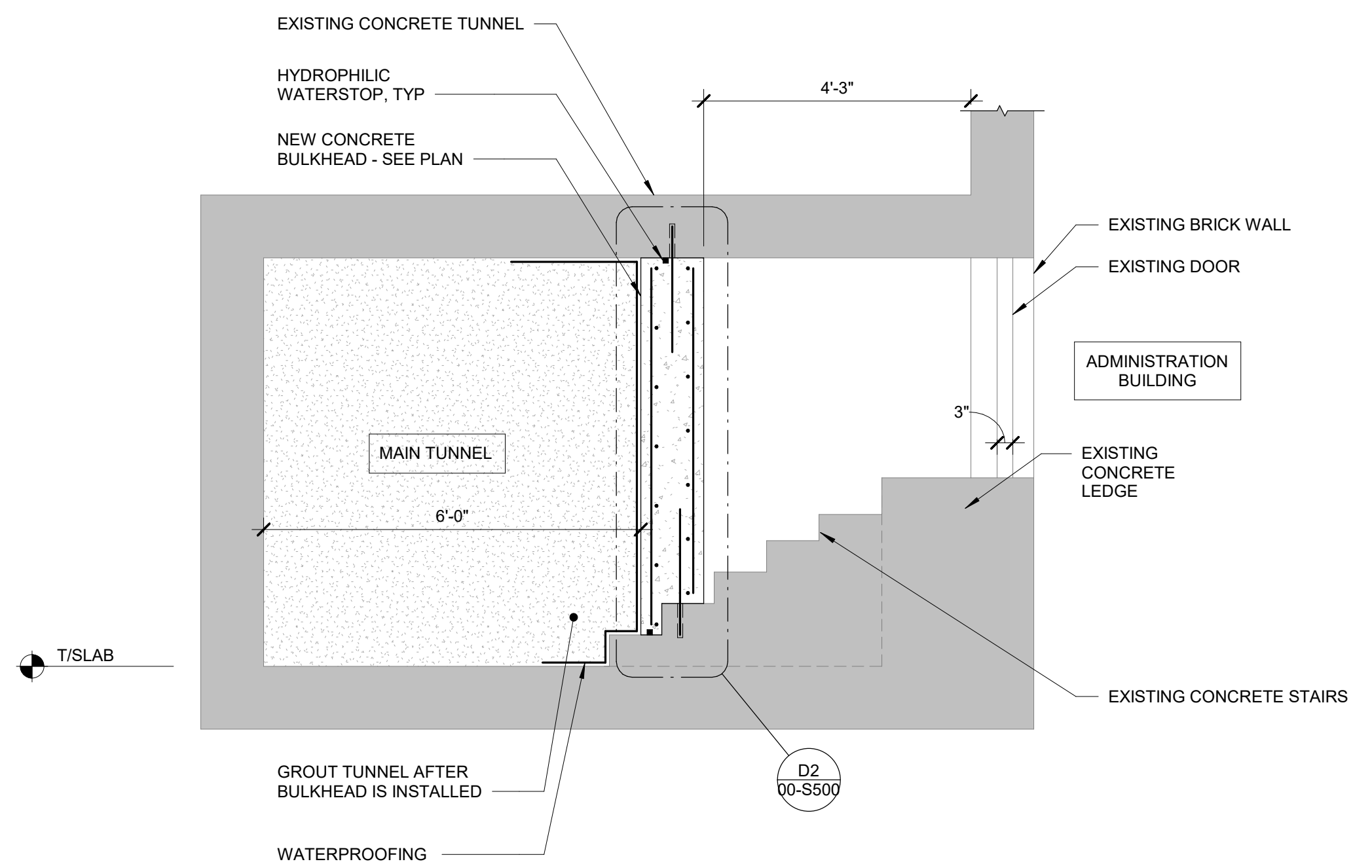
A4 ADMINISTRATION BUILDING SECTION AT AD. BUILDING TUNNEL
1/2" = 1'-0" 0' 3"



A6 ADMINISTRATION BUILDING PLAN AT MAIN TUNNEL
1/2" = 1'-0" 0' 3"



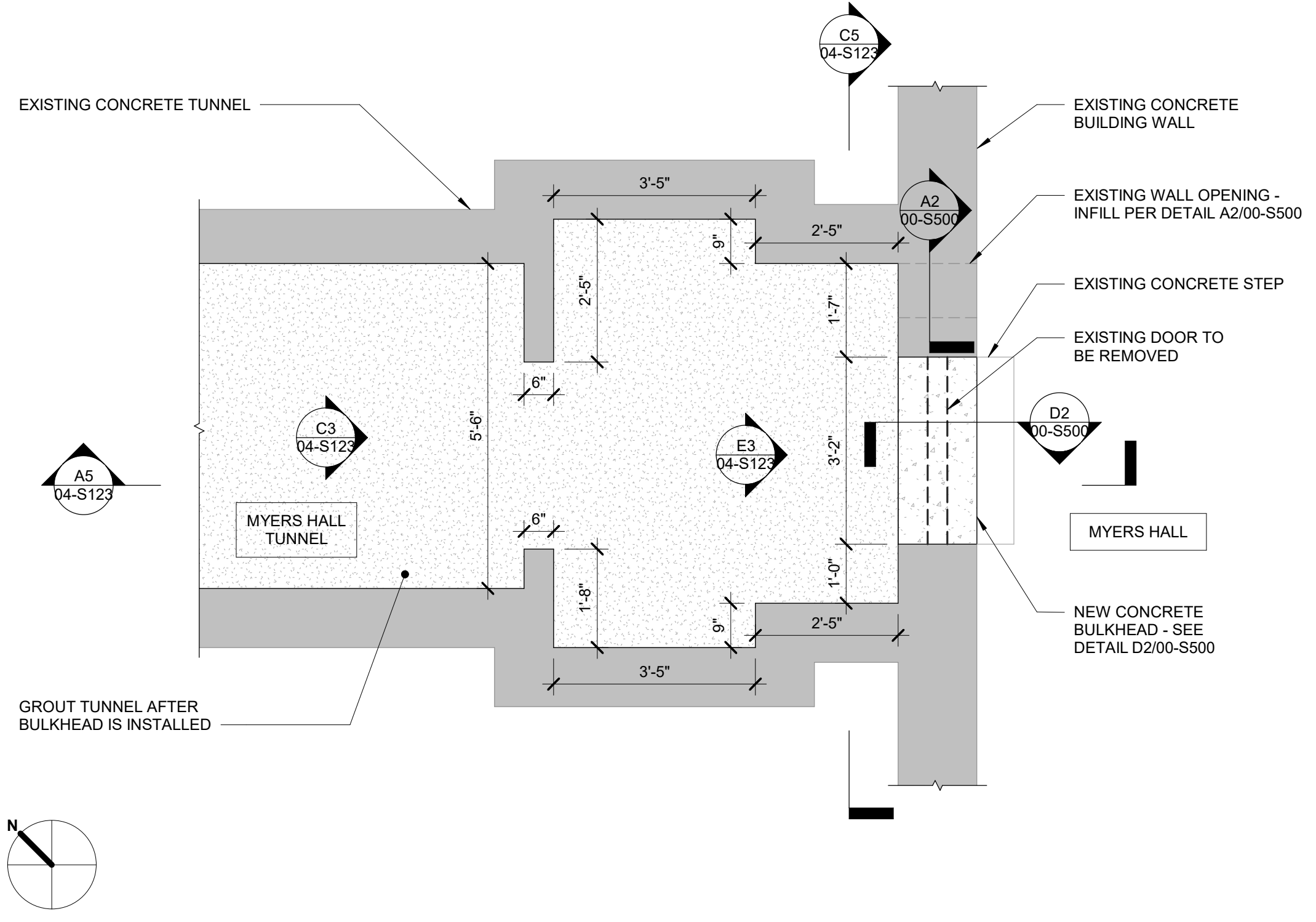
C6 MAIN TUNNEL BUILDING CONNECTION TO ADMINISTRATION BUILDING
NOT TO SCALE



F6 ADMINISTRATION BUILDING SECTION
1/2" = 1'-0" 0' 3"

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007940
FIELD BOOK	

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



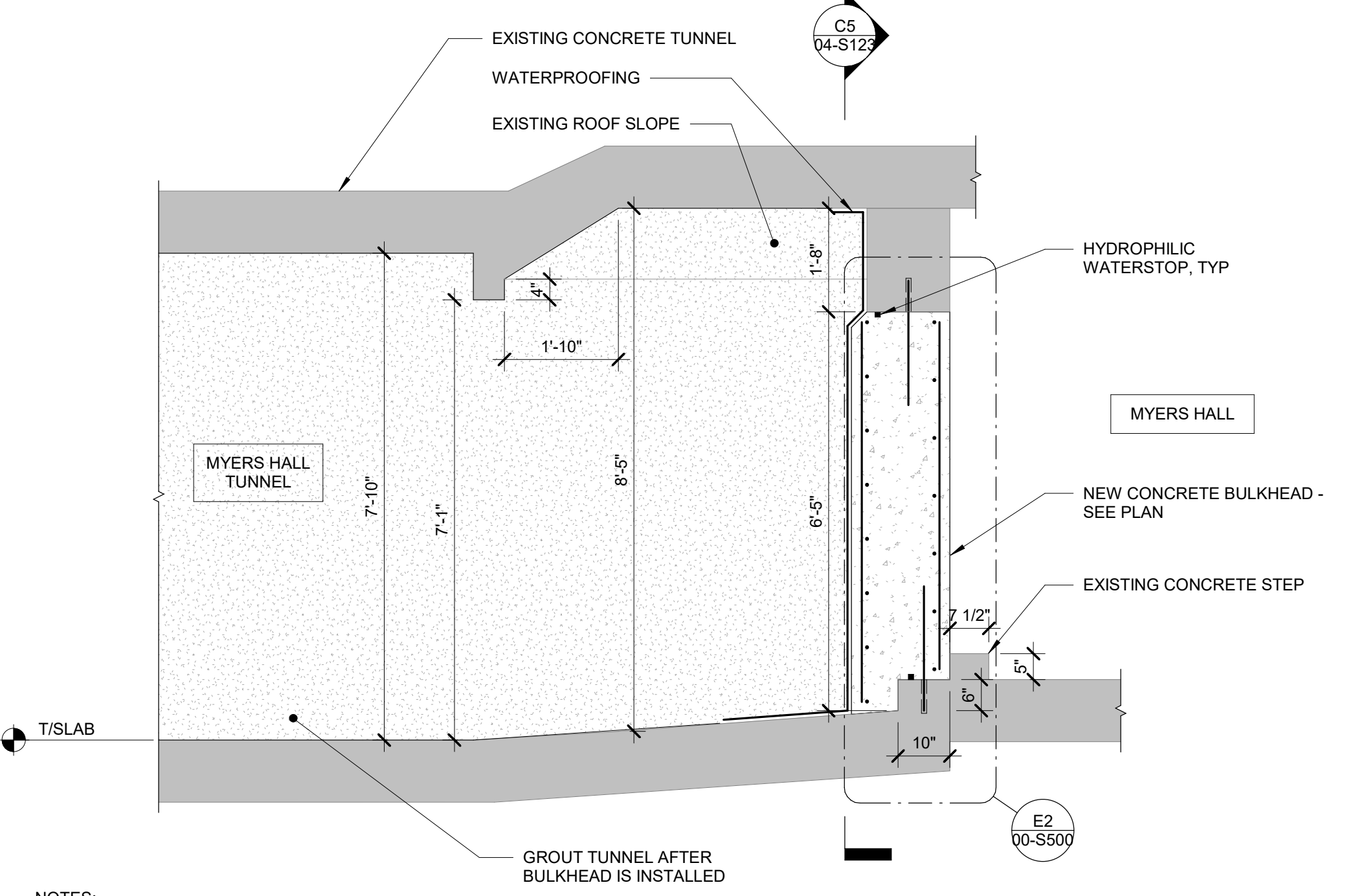
A3 MYERS HALL PLAN
1/2" = 1'-0" 0' 3"



C3 MYERS HALL TUNNEL BUILDING CONNECTION
NOT TO SCALE

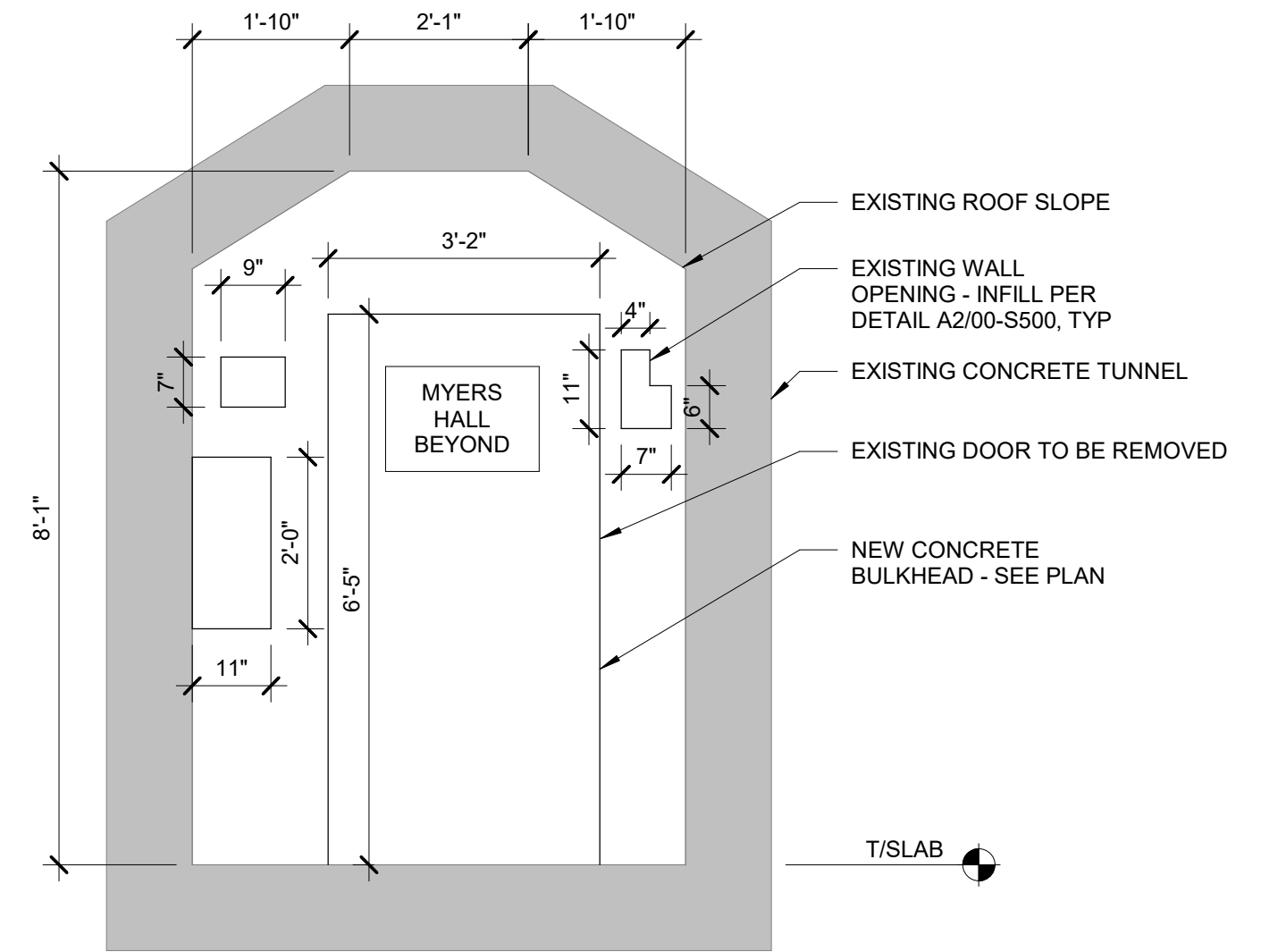


E3 MYERS HALL TUNNEL BUILDING CONNECTION
NOT TO SCALE



A5 MYERS HALL SECTION
1/2" = 1'-0" 0' 3"

NOTES:
1. EXISTING DOOR TO BE REMOVED NOT SHOWN.



C5 MYERS HALL SECTION
1/2" = 1'-0" 0' 3"

I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF CONSTRUCTION SERVICES
324 CEDAR ST. WOODWARD, IA 50276

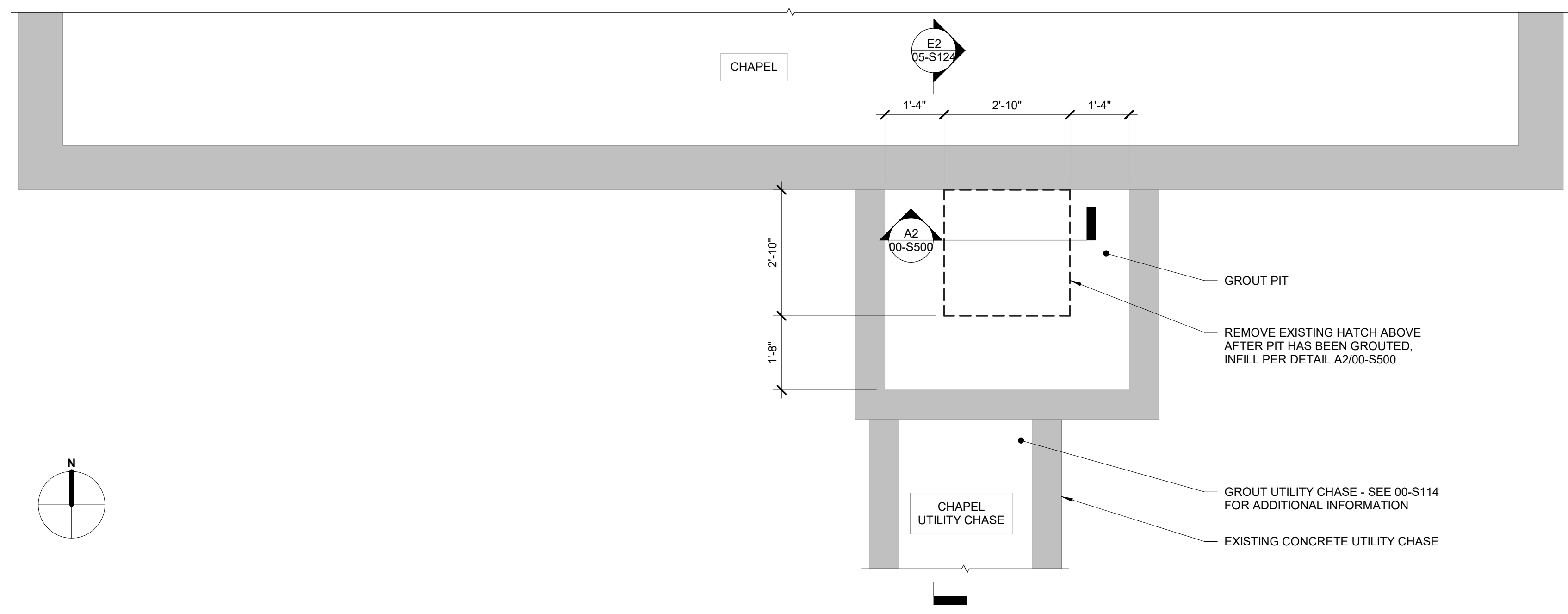
PRELIMINARY
- NOT FOR
CONSTRUCTION

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

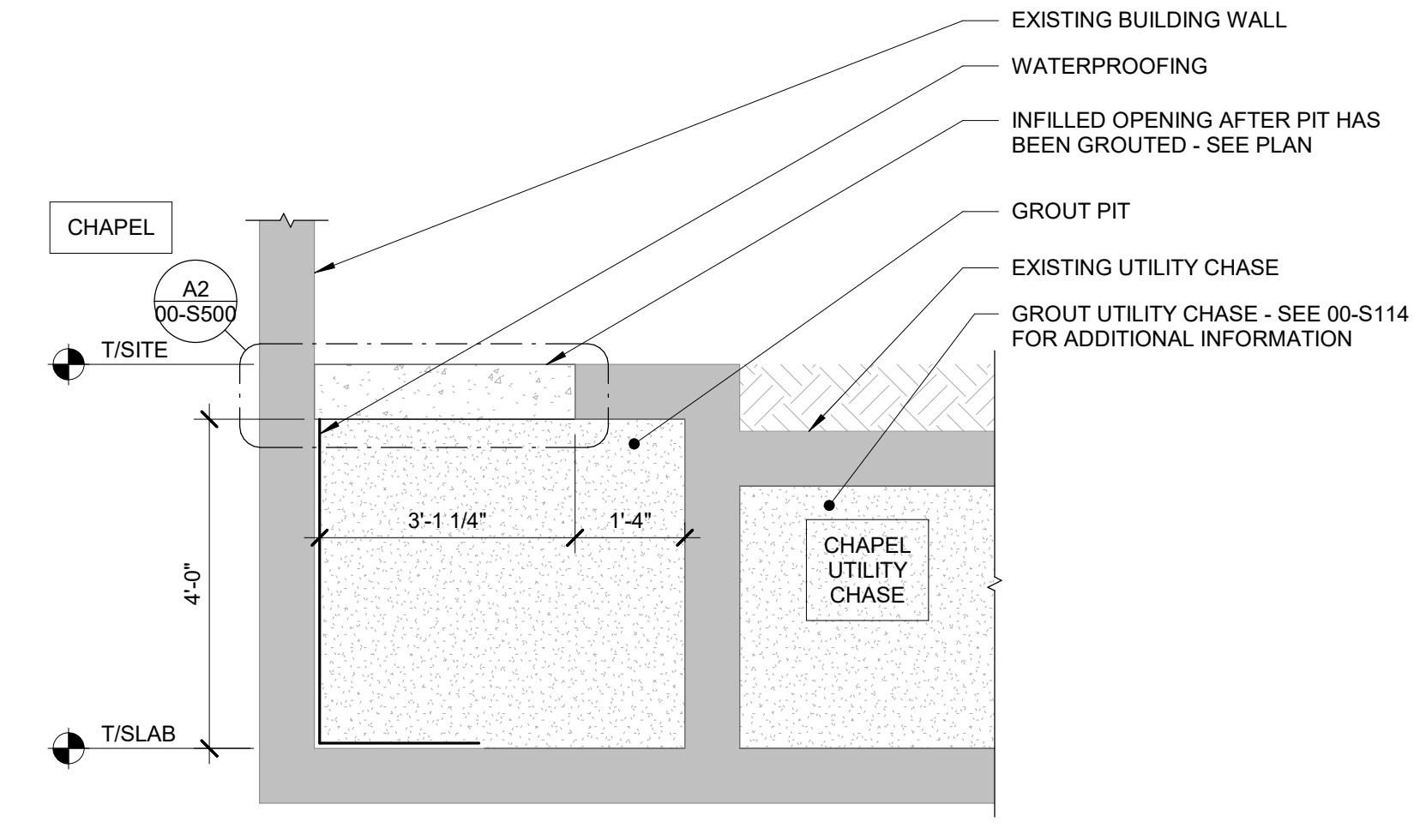
MYERS HALL

04-S123

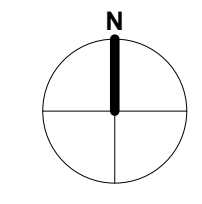
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A2 CHAPEL UTILITY CHASE PLAN
1/2" = 1'-0" 0 3'



E2 CHAPEL UTILITY CHASE SECTION
1/2" = 1'-0" 0 3'



**IAA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF CONSTRUCTION SERVICES
37 CEDAR ST. WOODWARD, IA 50276

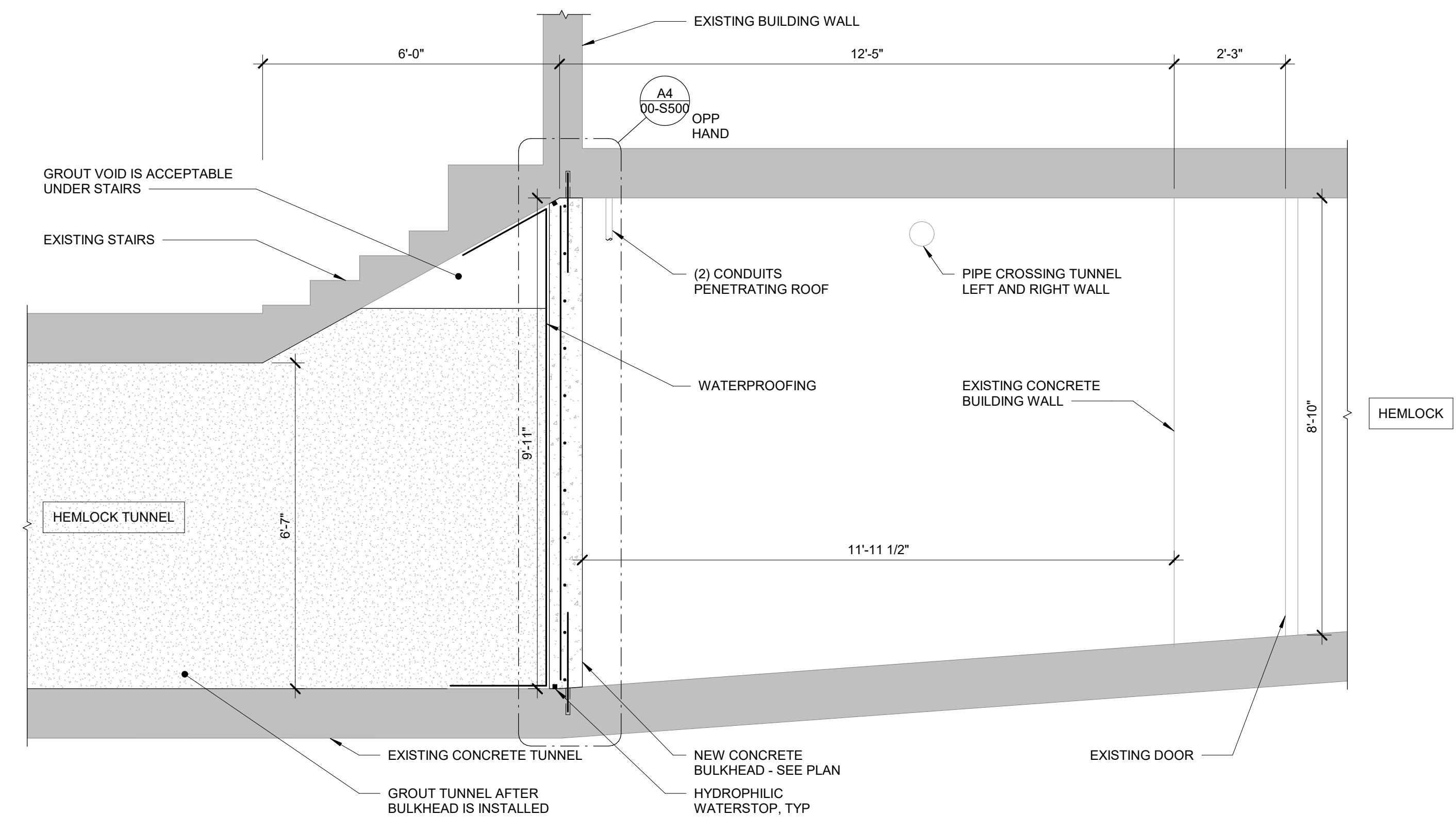
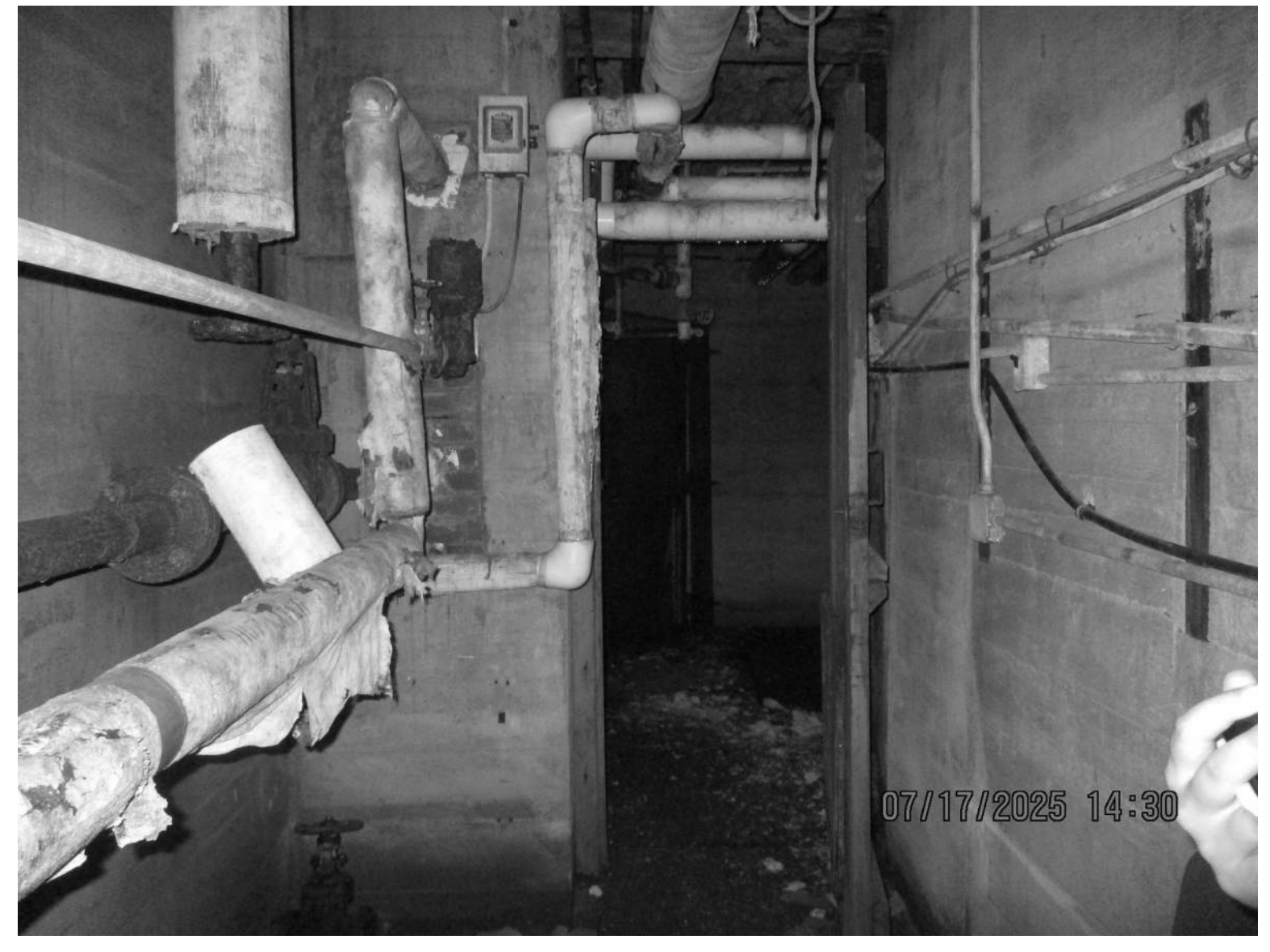
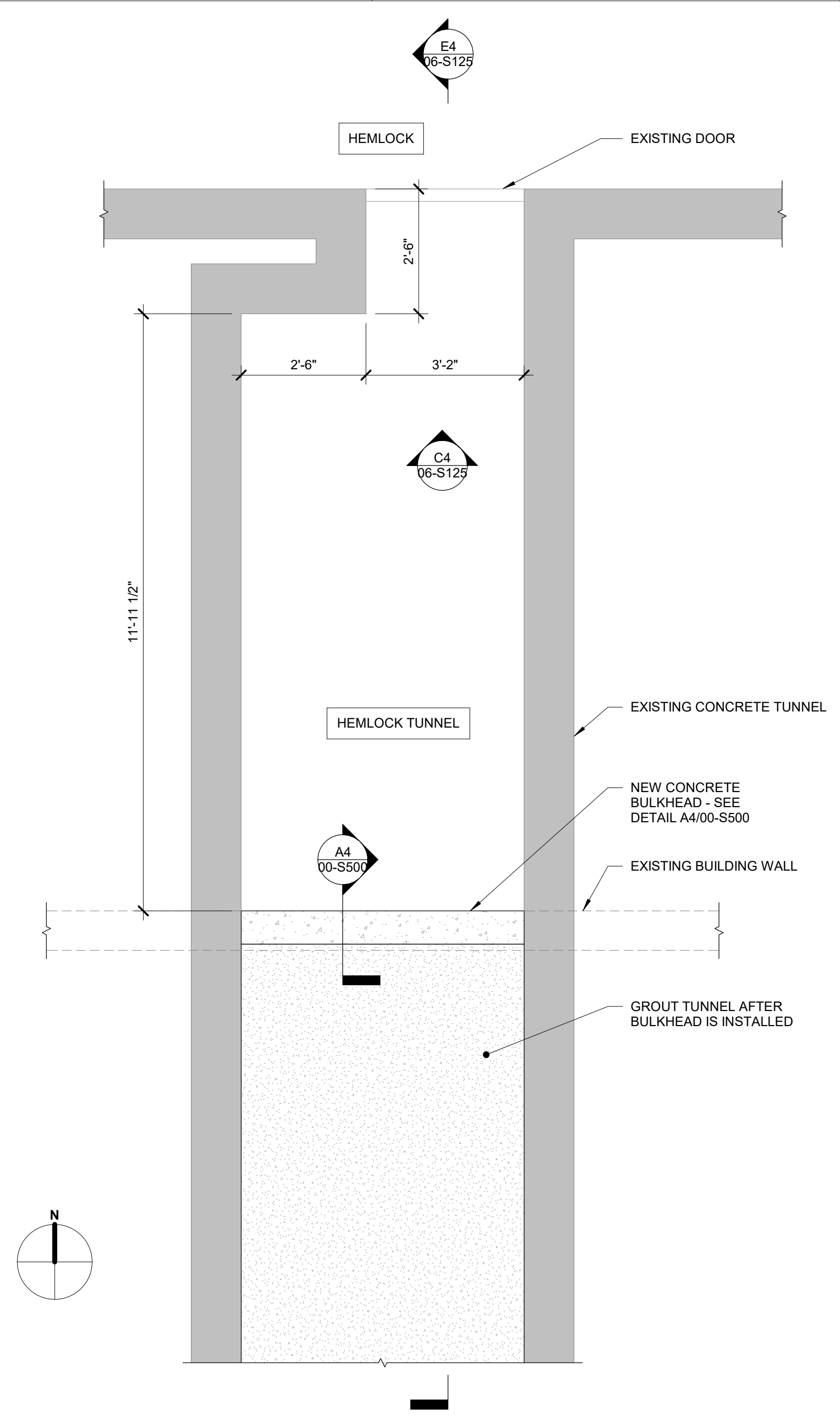
**PRELIMINARY
- NOT FOR
CONSTRUCTION**

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

**CHAPEL UTILITY
CHASE**

05-S124

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A4 HEMLOCK PLAN
1/2" = 1'-0" 0" 3"

C4 HEMLOCK TUNNEL BUILDING CONNECTION
NOT TO SCALE

E4 HEMLOCK SECTION
1/2" = 1'-0" 0" 3"

**IIA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

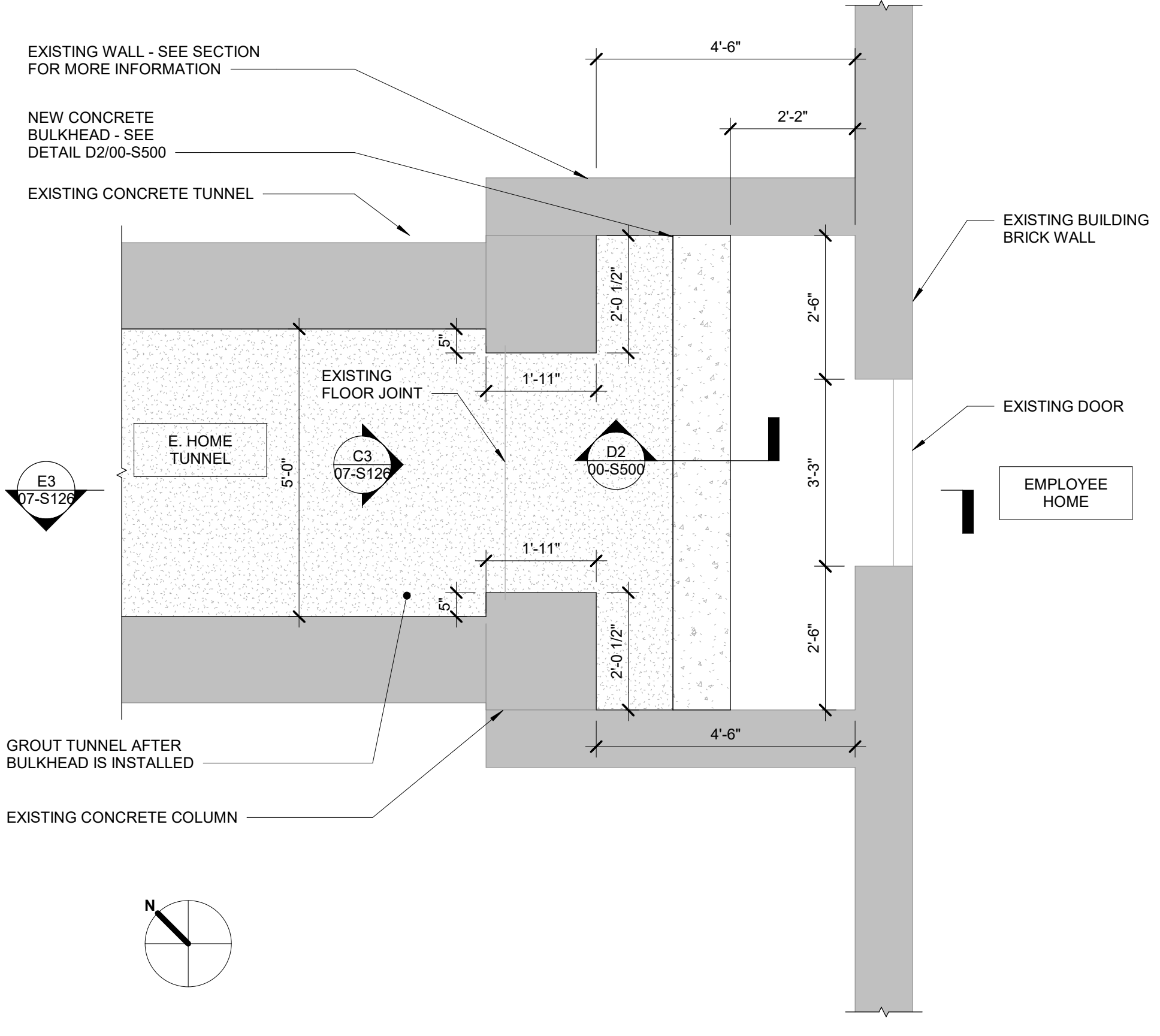
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF PROJECT NUMBERING
314 CEDAR ST. WOODWARD, IA 50276

HEMLOCK

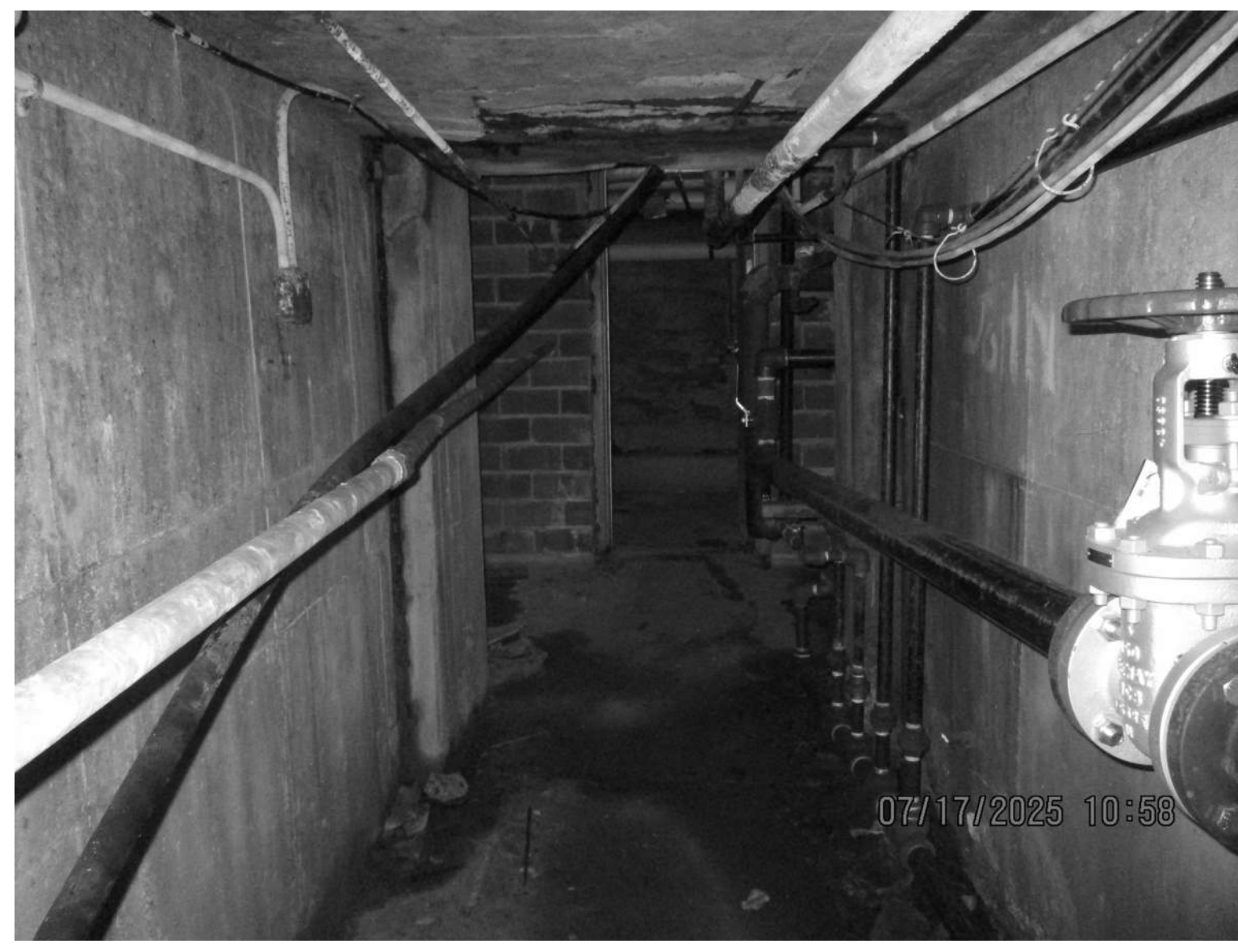
**PRELIMINARY
- NOT FOR
CONSTRUCTION**

DRAWN BY	KAB
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ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

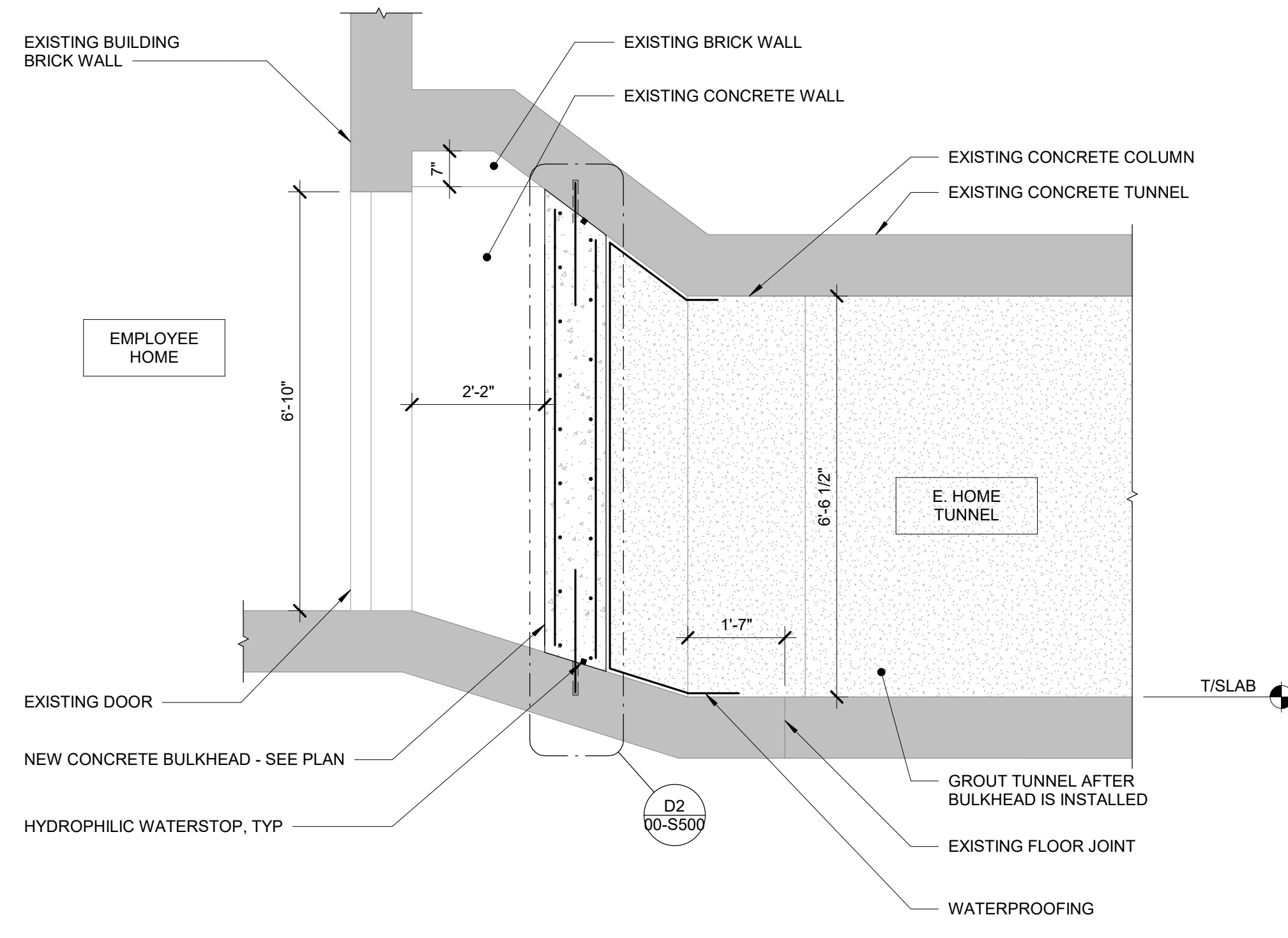
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



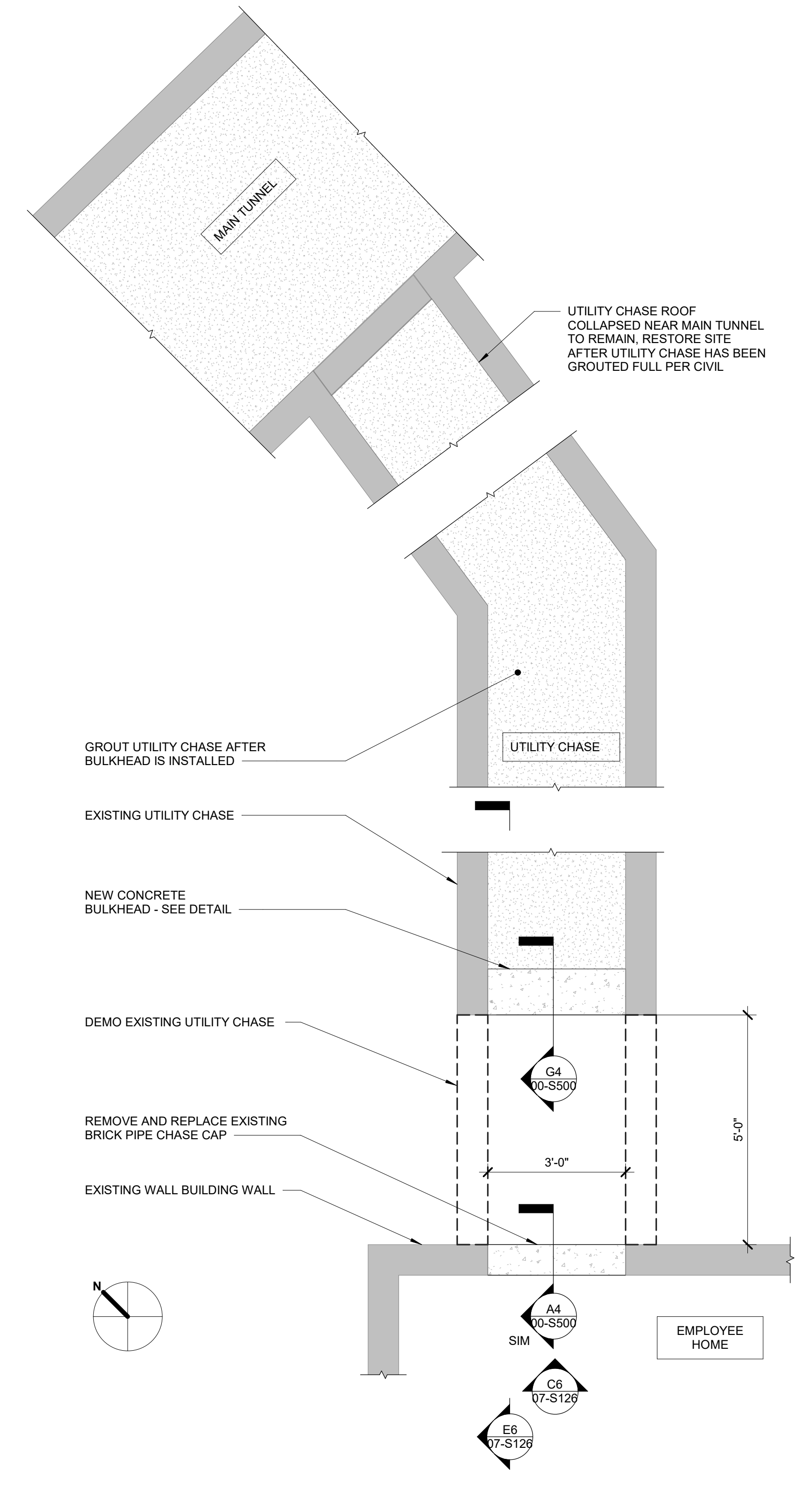
A3 EMPLOYEE HOME PLAN
1/2" = 1'-0" 0' 3'



C3 EMPLOYEE HOME TUNNEL BUILDING CONNECTION
NOT TO SCALE



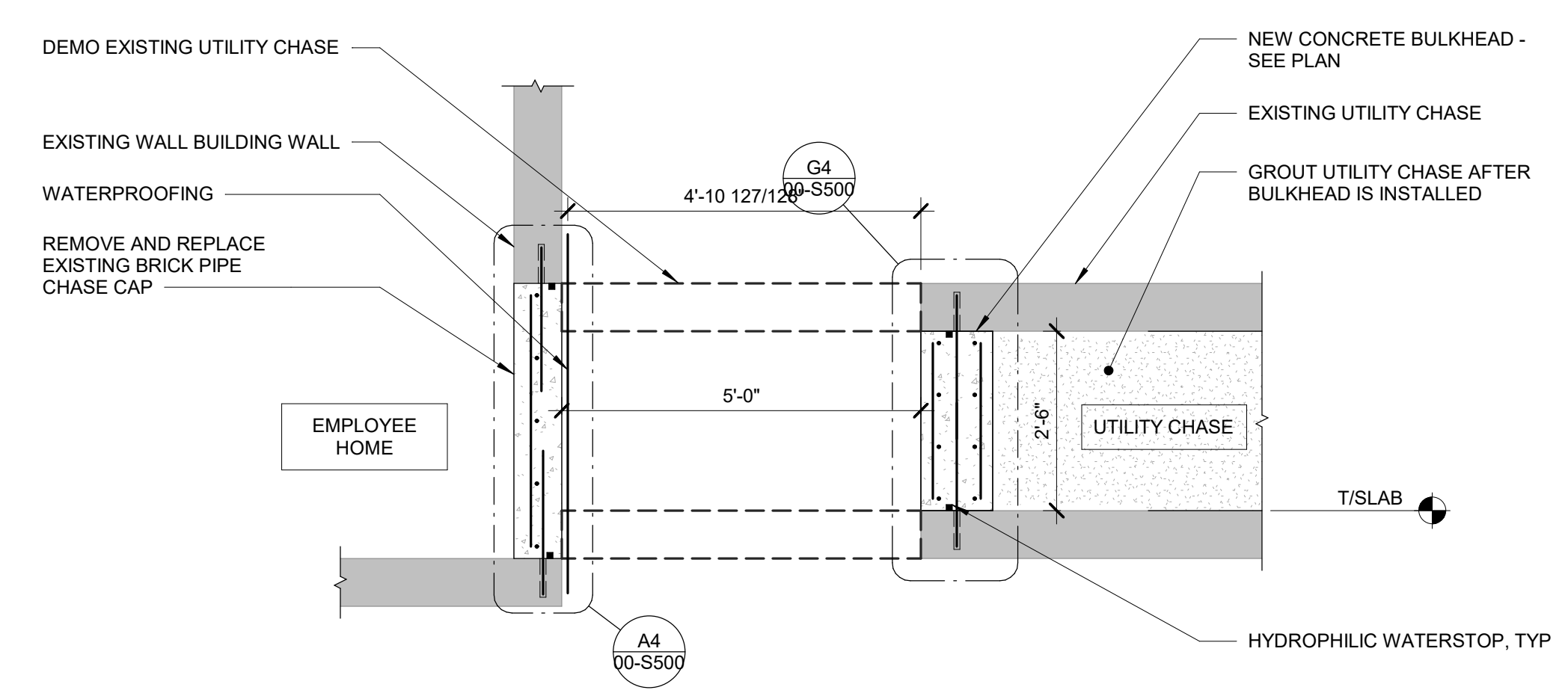
E3 EMPLOYEE HOME SECTION
1/2" = 1'-0" 0' 3'



A6 EMPLOYEE HOME UTILITY CHASE PLAN
1/2" = 1'-0" 0' 3'



C6 E. HOME UTILITY CHASE BUILDING CONNECTION
1/2" = 1'-0" 0' 3'



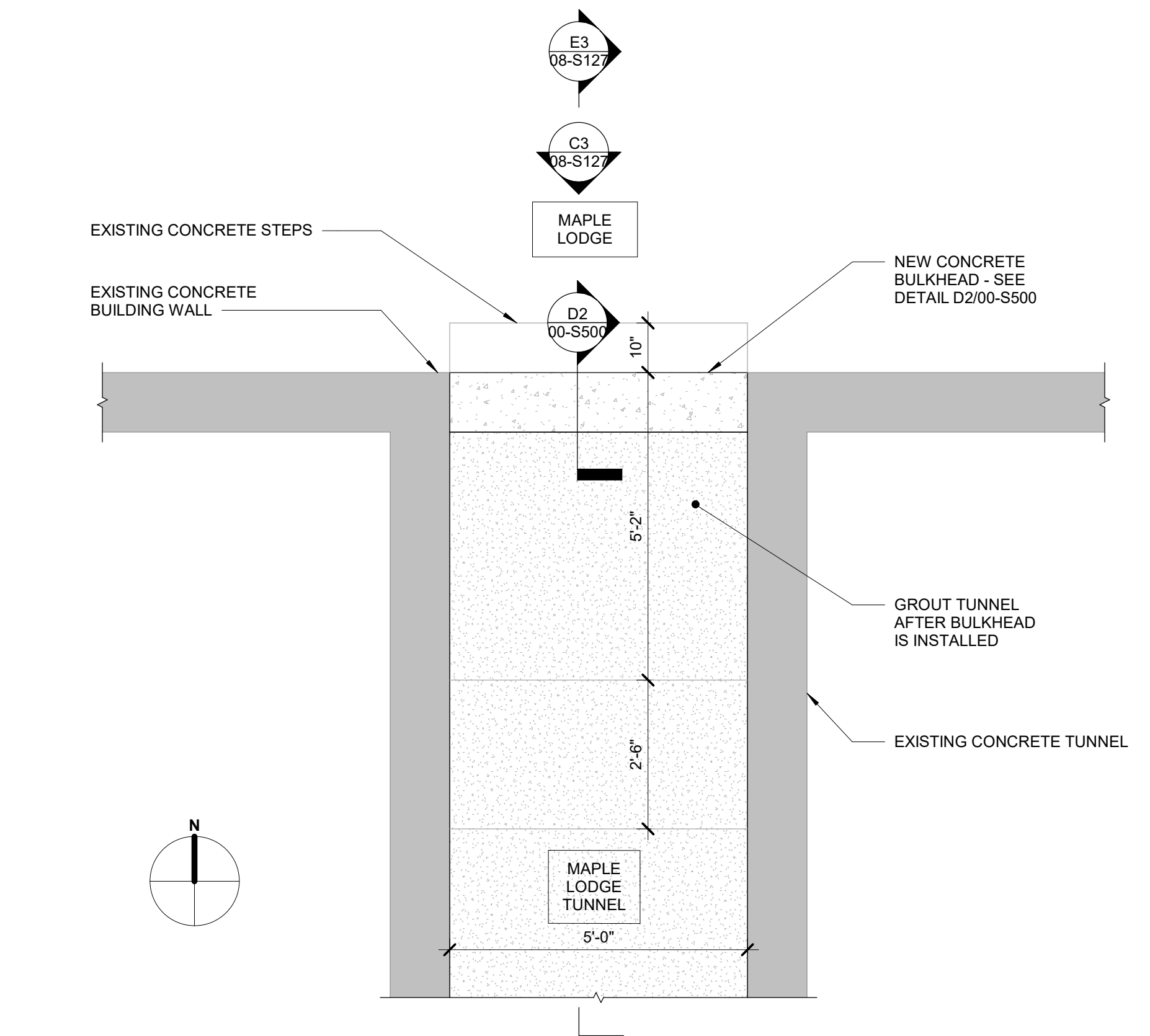
E6 EMPLOYEE HOME UTILITY CHASE SECTION
1/2" = 1'-0" 0' 3'

EMPLOYEE HOME

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PROJECT NUMBER	2240007040
FIELD BOOK	

PRELIMINARY
- NOT FOR
CONSTRUCTION

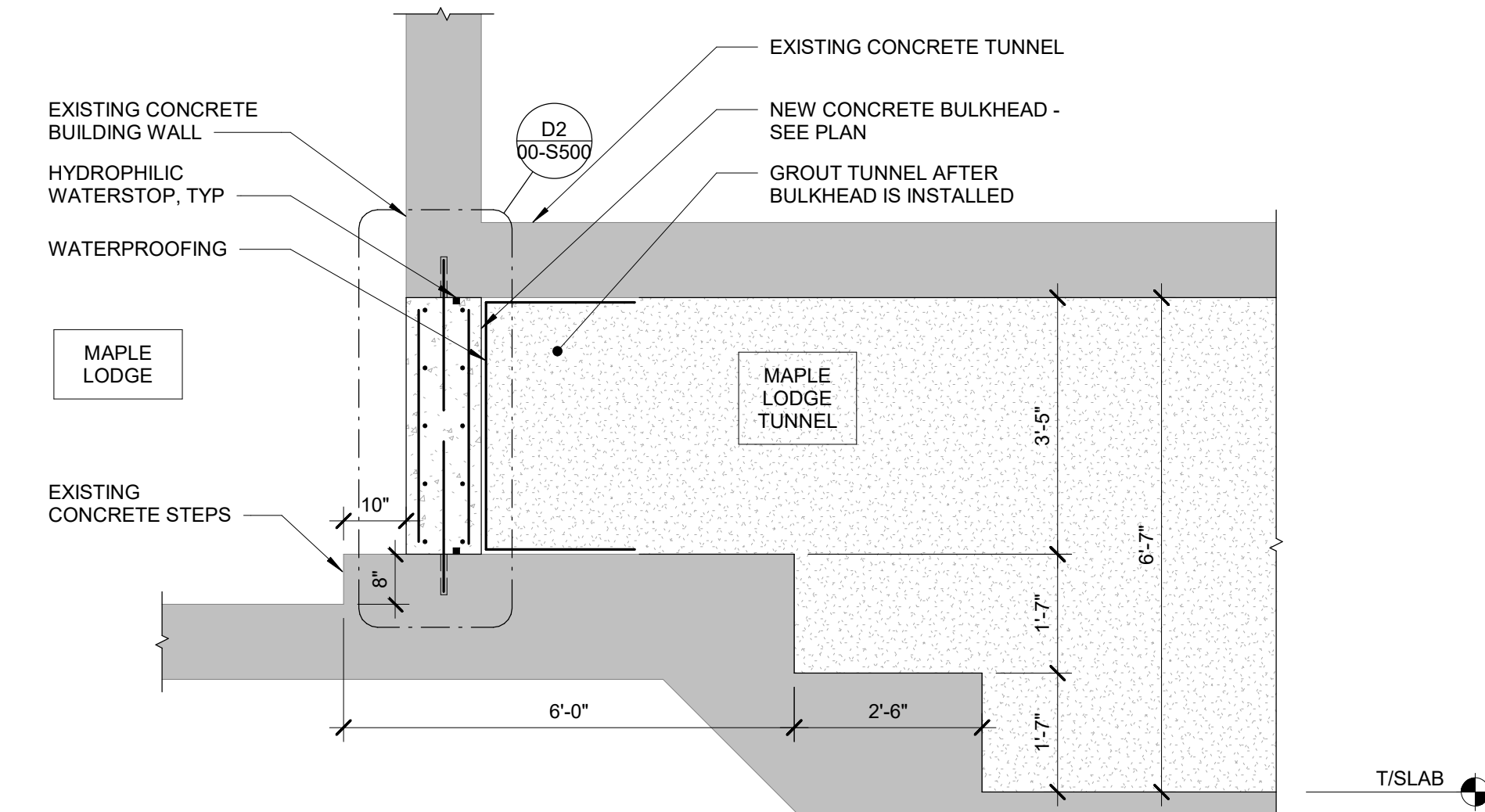
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A3 MAPLE LODGE PLAN
1/2" = 1'-0" 0' 3"



C3 MAPLE LODGE BUILDING CONNECTION
1/2" = 1'-0" 0' 3"



E3 MAPLE LODGE SECTION
1/2" = 1'-0" 0' 3"

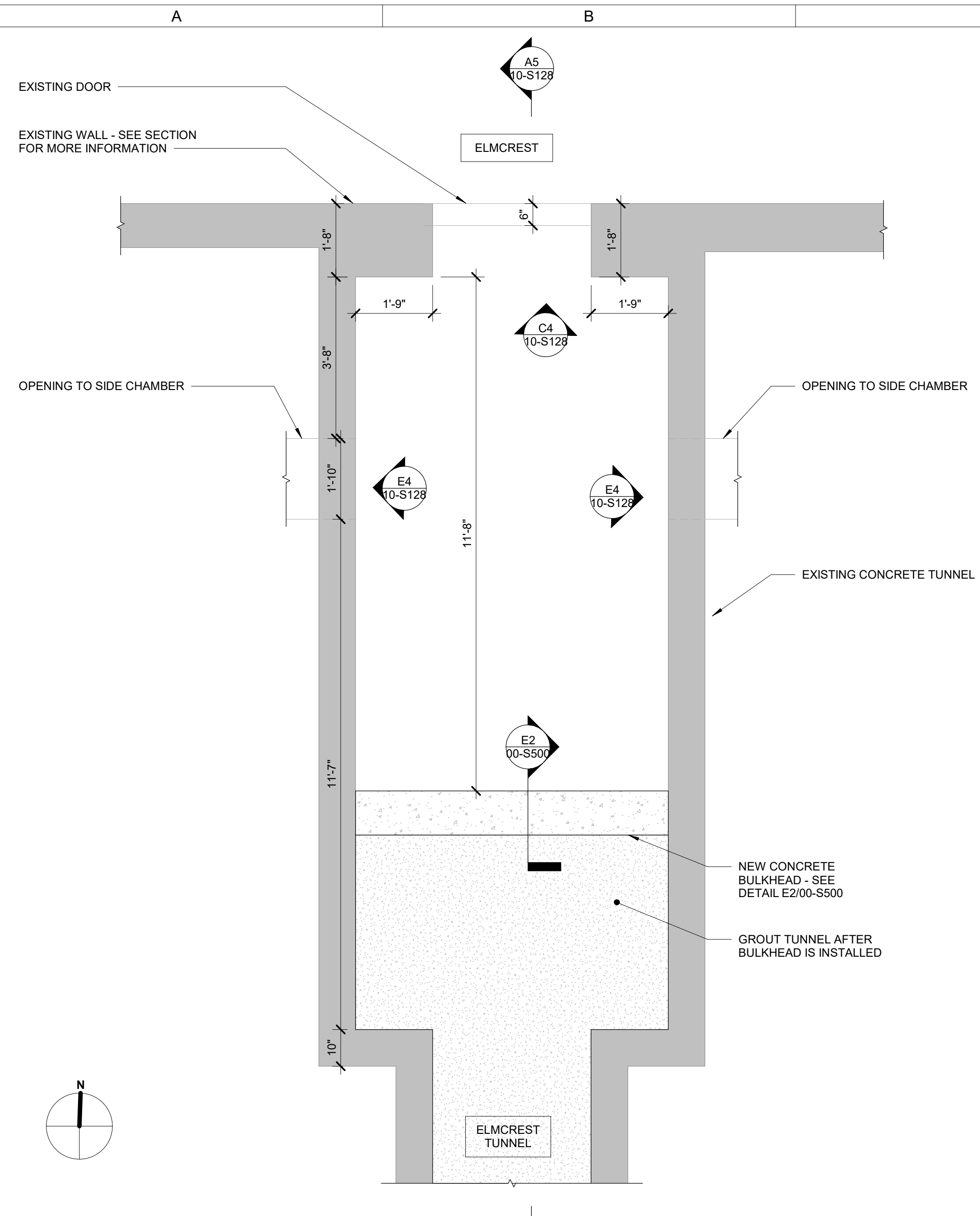
**IIA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
SPACE AND FACILITY MANAGEMENT
34 CEDAR ST. WOODWARD, IA 50276

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MAPLE LODGE
08-S127

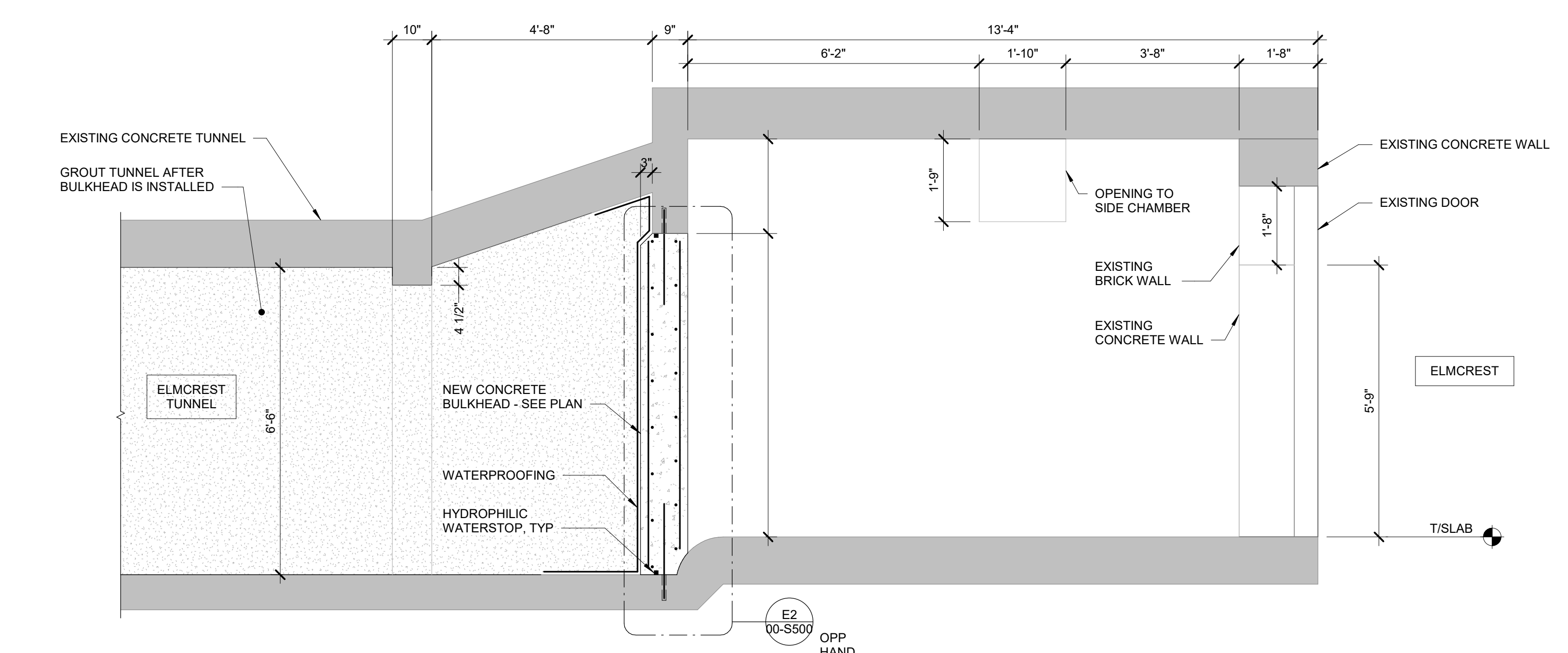
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A4 ELMCREST PLAN
1/2" = 1'-0" 0' 3"

C4 ELMCREST TUNNEL BUILDING CONNECTION
NOT TO SCALE

E4 ELMCREST TUNNEL SIDE CHAMBER
NOT TO SCALE



A5 ELMCREST SECTION
1/2" = 1'-0" 0' 3"

**IJA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

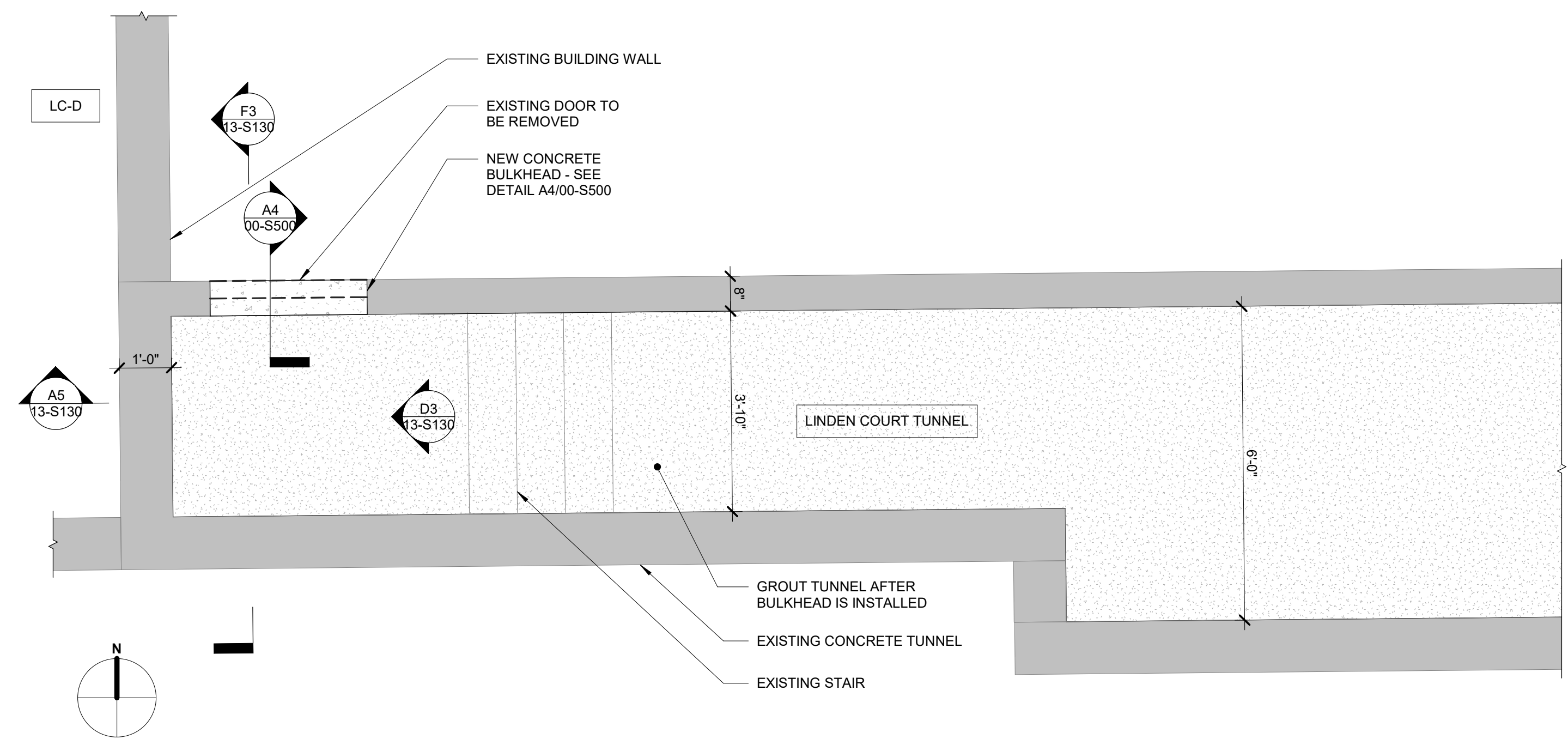
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF CONSTRUCTION SERVICES
34 CEDAR ST. WOODWARD, IA 50276

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CONSTRUCTION**

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APPROVED BY	MM
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ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

ELMCREST

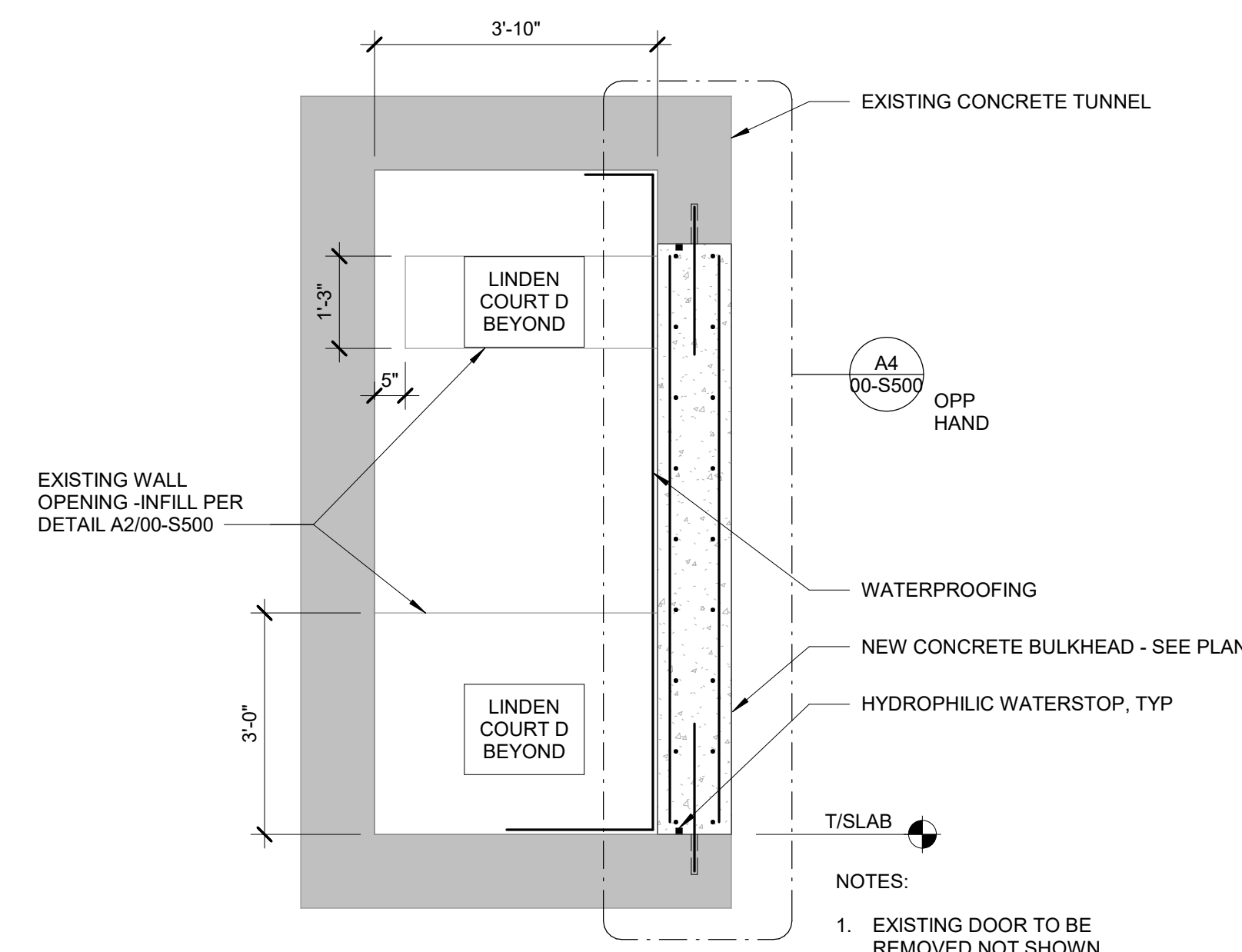
10-S128



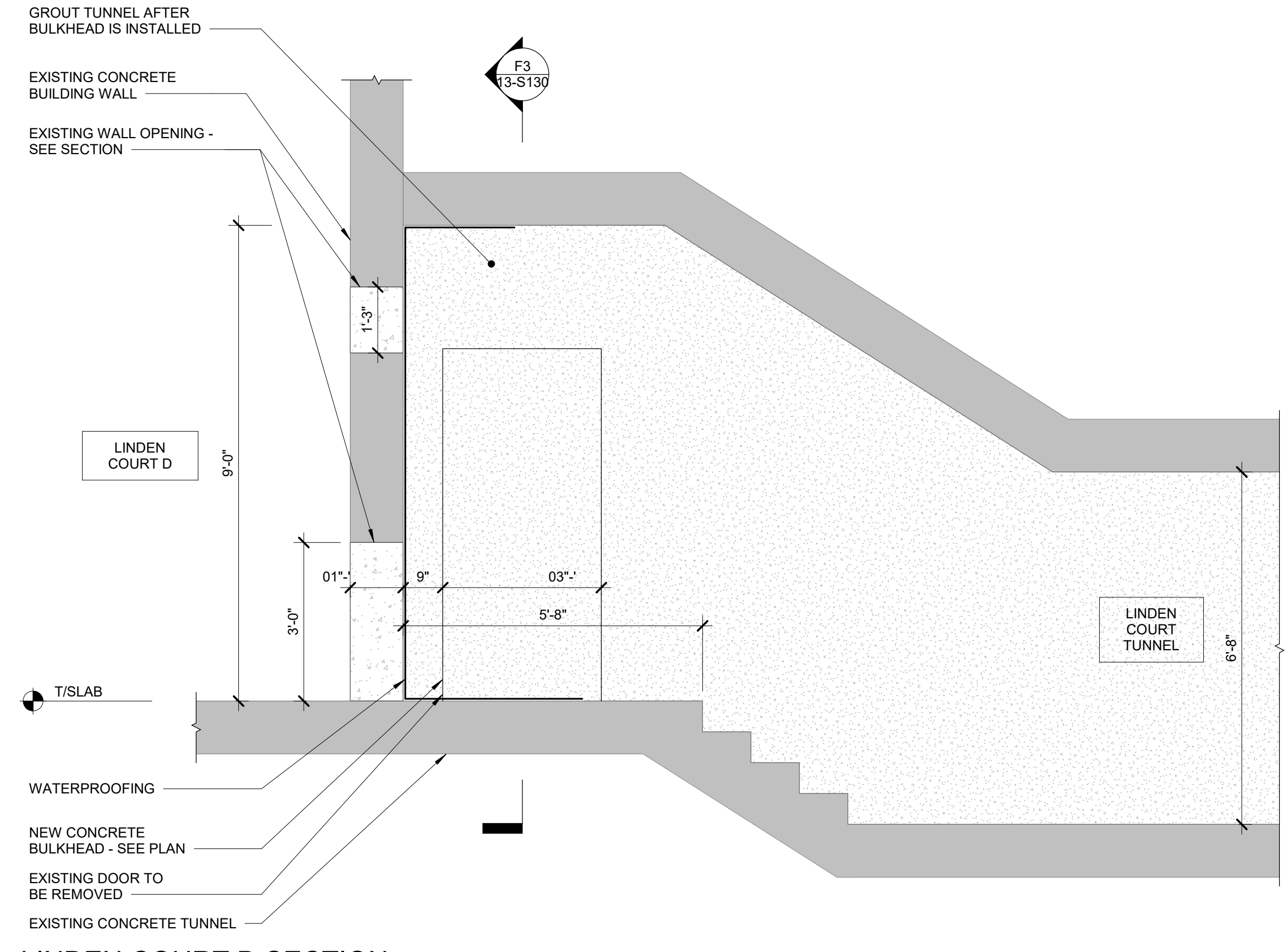
A3 LINDEN COURT D PLAN
1/2" = 1'-0" 0' 3"



D3 LINDEN COURT TUNNEL BUILDING CONNECTION
1/2" = 1'-0" 0' 3"



F3 LINDEN COURT D SECTION
1/2" = 1'-0" 0' 3"

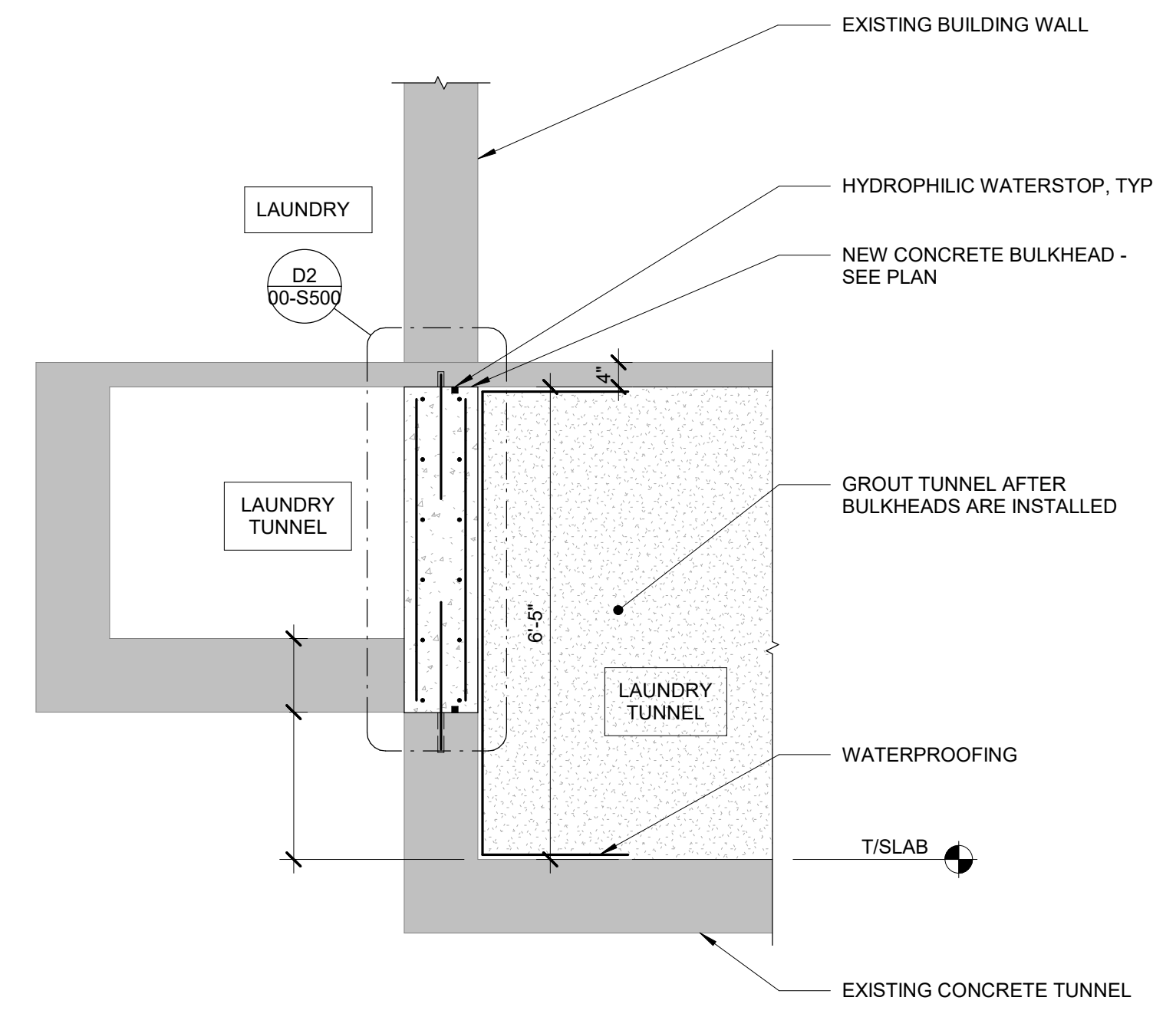
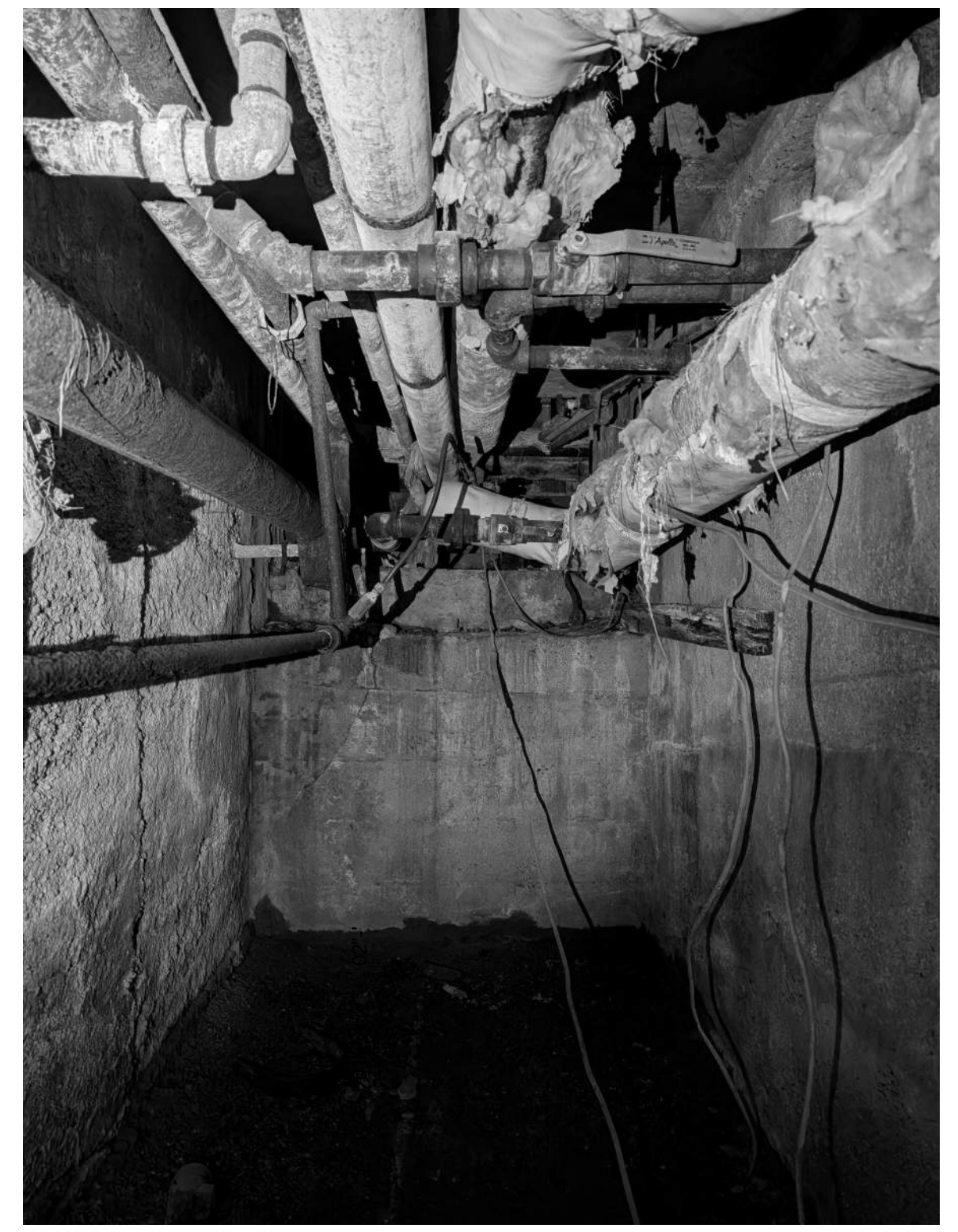
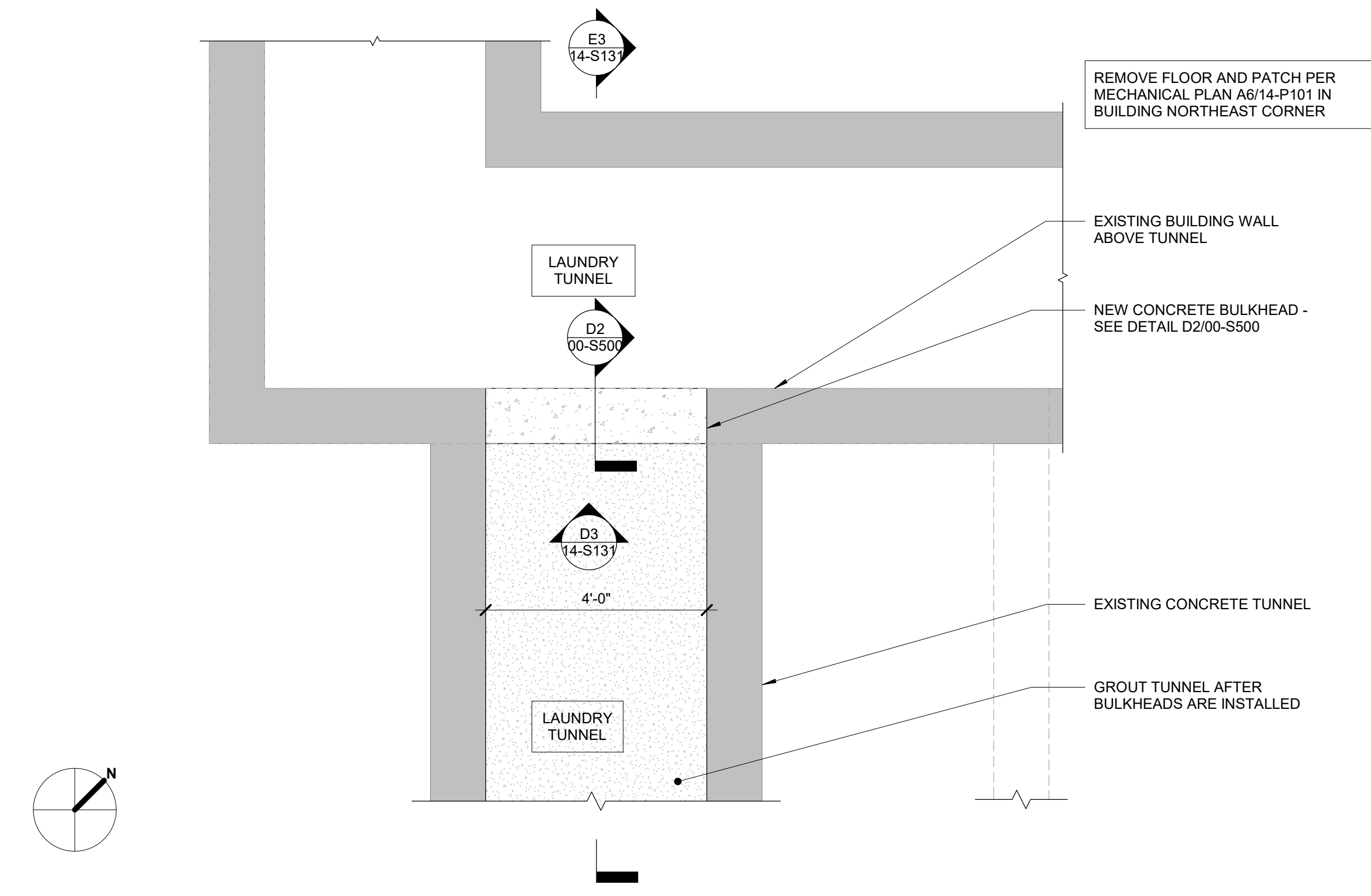


A5 LINDEN COURT D SECTION
1/2" = 1'-0" 0' 3"

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.

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ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
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ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A3 LAUNDRY PLAN
1/2" = 1'-0" 0' 3"

D3 LAUNDRY TUNNEL BUILDING CONNECTION
NOT TO SCALE

E3 LAUNDRY SECTION
1/2" = 1'-0" 0' 3"

**IIA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE PROJECT NUMBER: 2473-20
34 CEDAR ST. WOODWARD, IA 50276

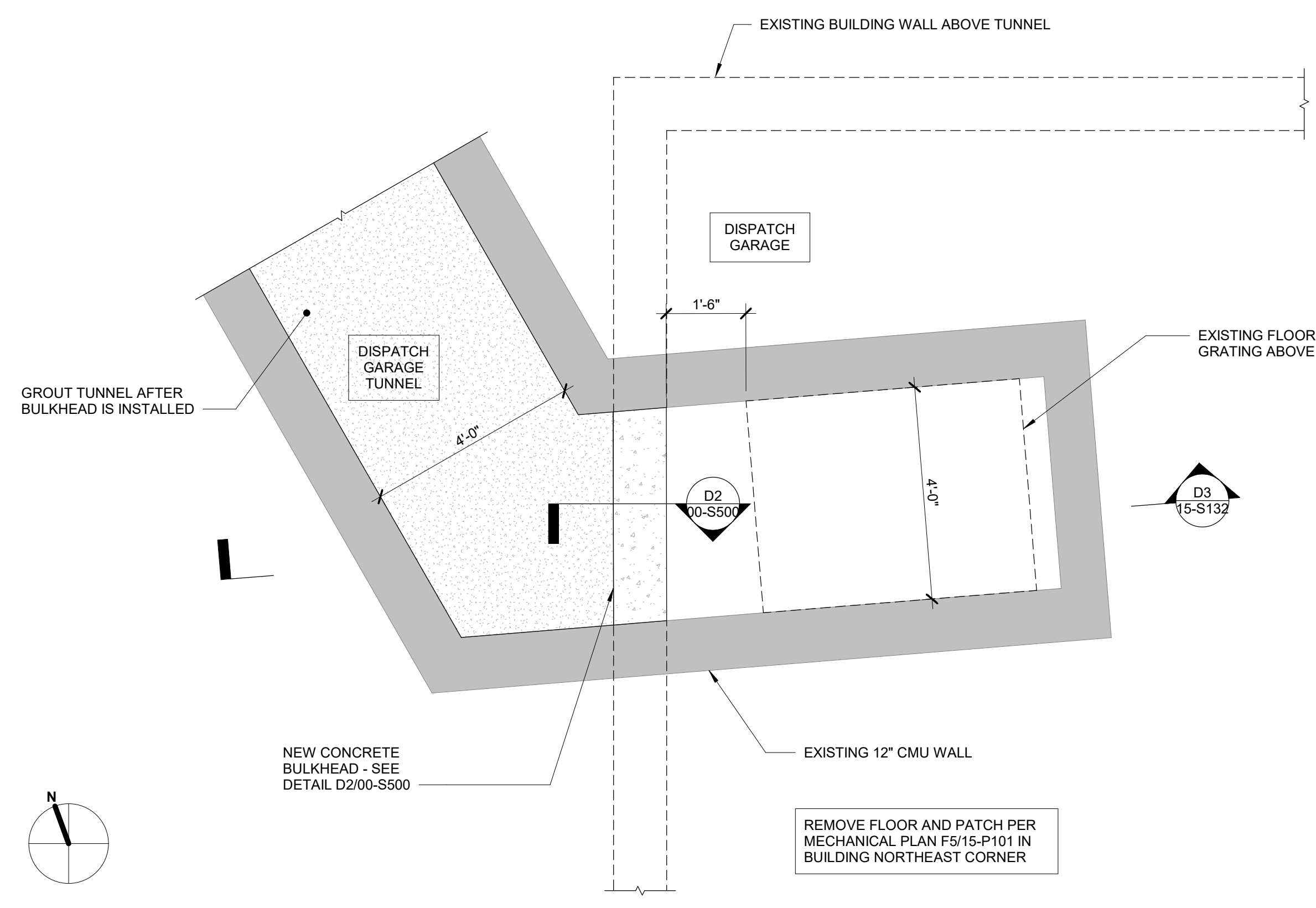
LAUNDRY

**PRELIMINARY
- NOT FOR
CONSTRUCTION**

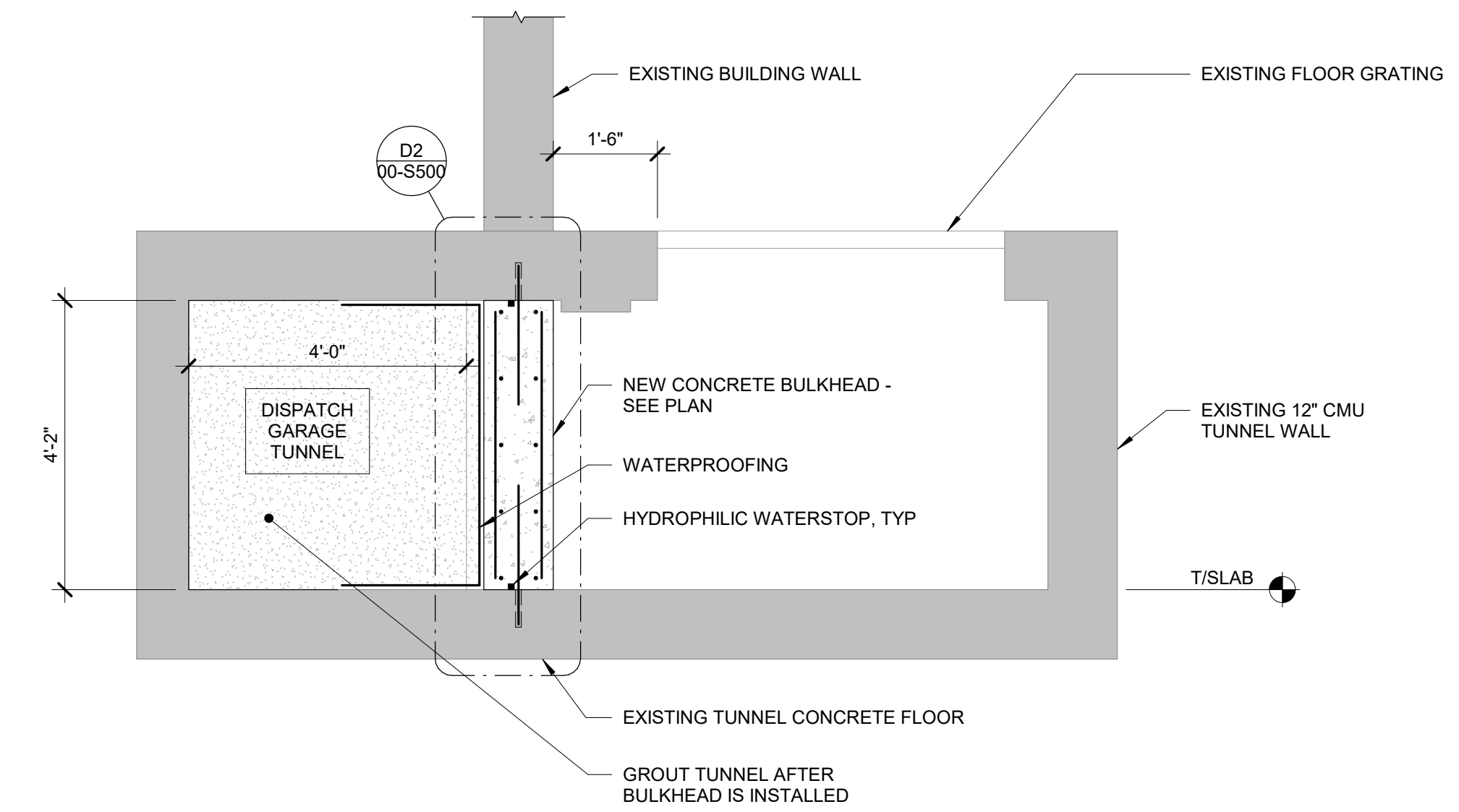
DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	240007040
FIELD BOOK	

14-S131

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



(A3) DISPATCH GARAGE PLAN
1/2" = 1'-0" 0 3



(D3) DISPATCH GARAGE SECTION
1/2" = 1'-0" 0 3

**IAA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE PROJECT NUMBER: 2473-00
34 CEDAR ST. WOODWARD, IA 50276

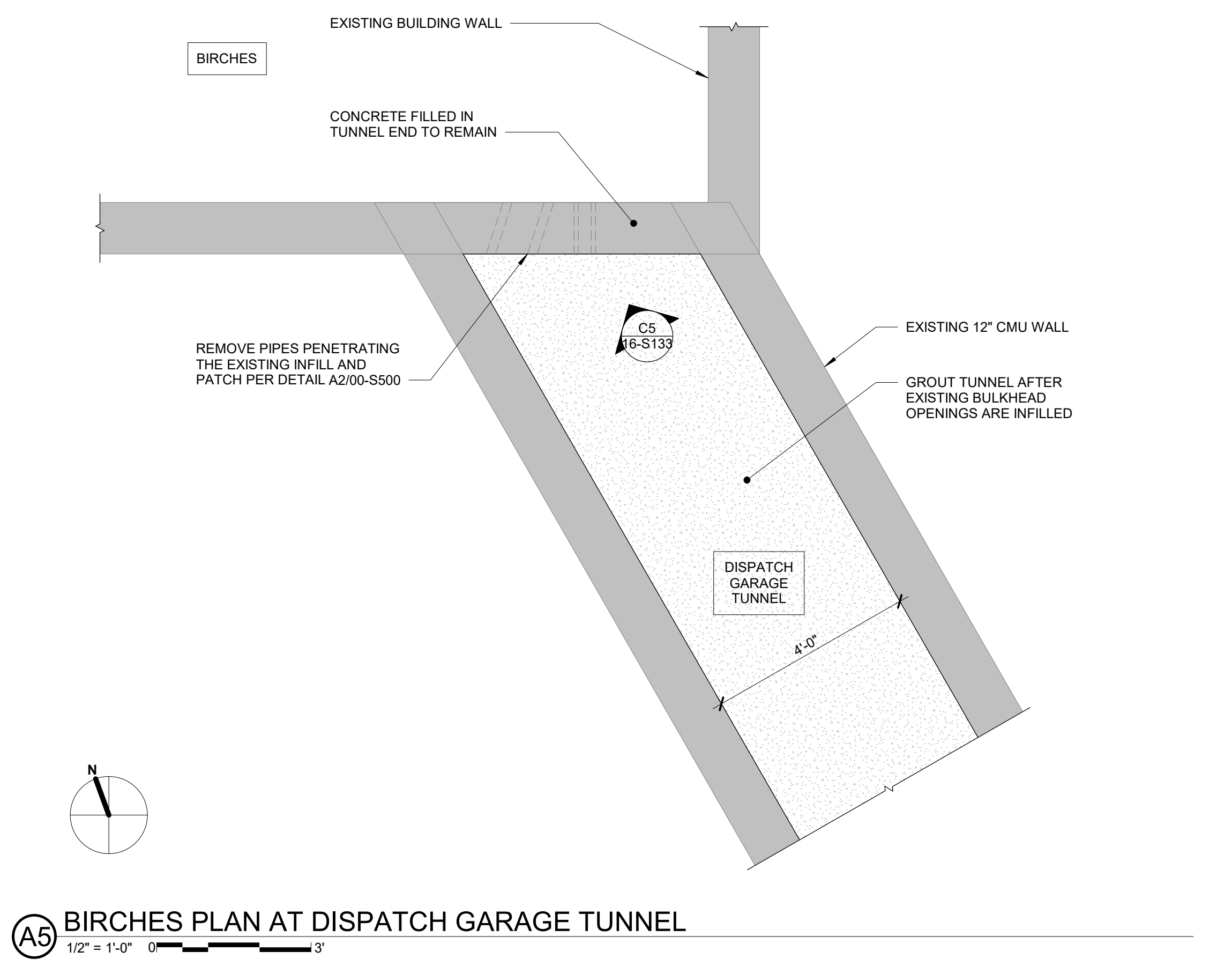
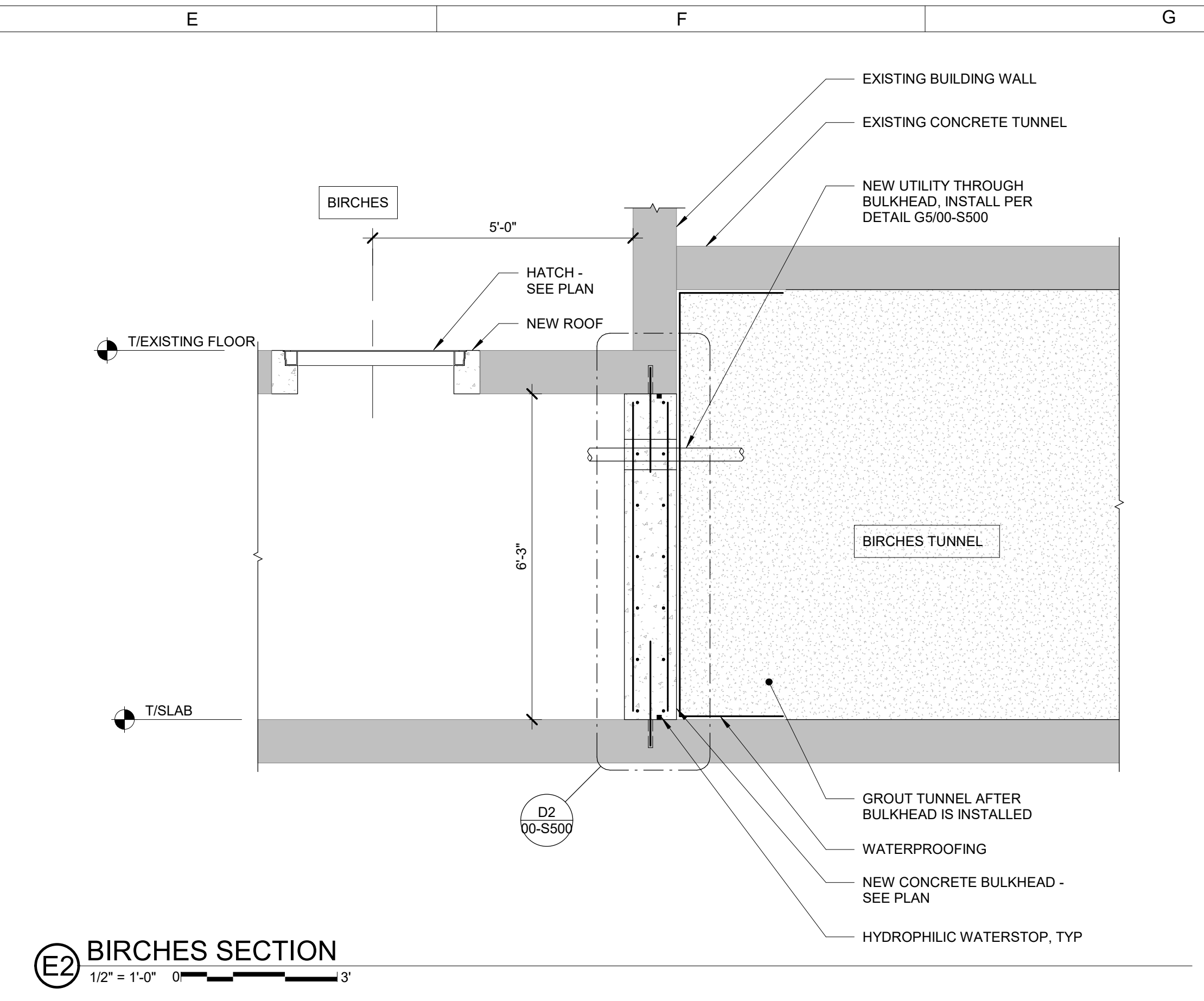
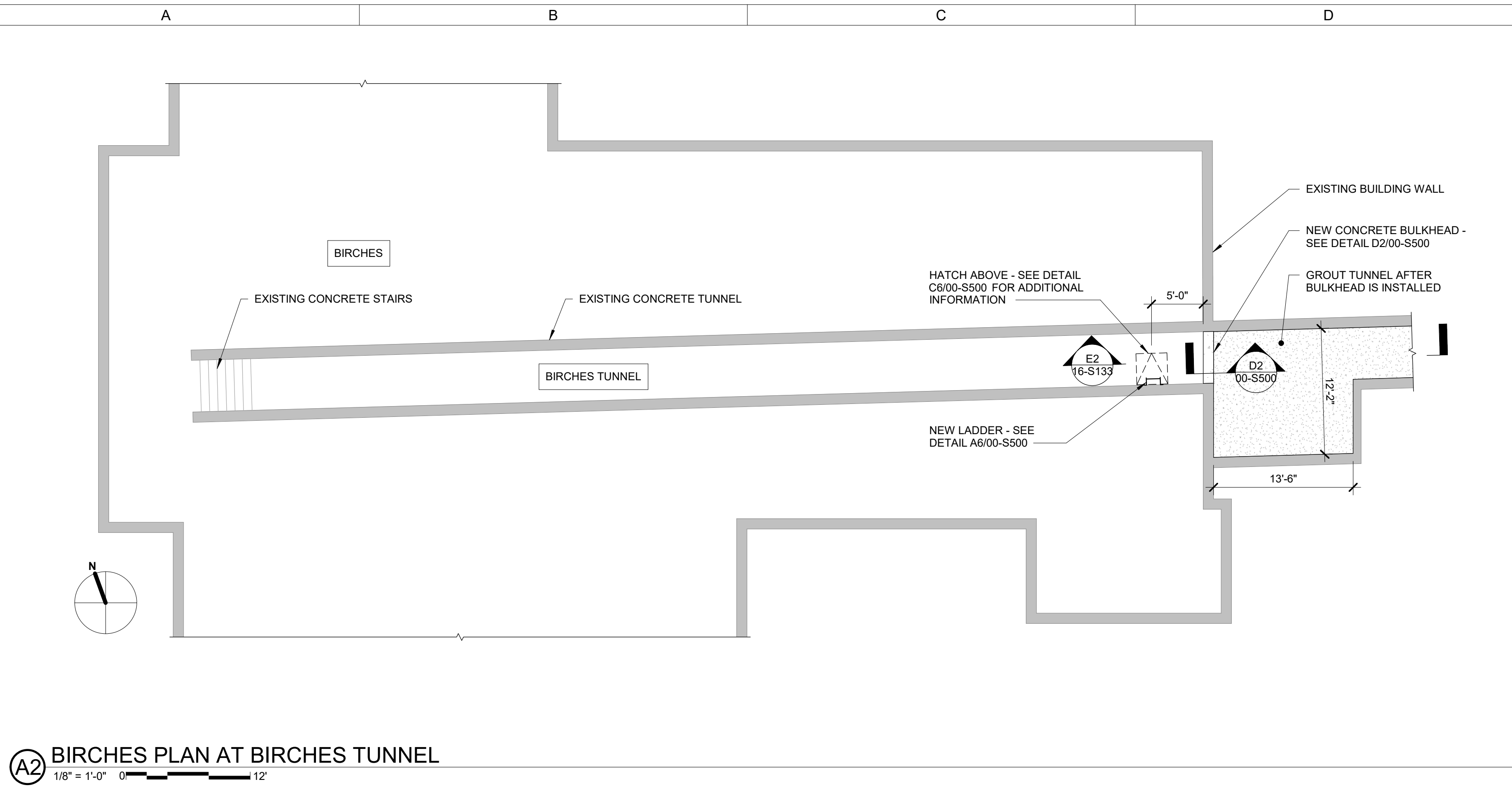
**PRELIMINARY
- NOT FOR
CONSTRUCTION**

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	240007040
FIELD BOOK	

**DISPATCH
GARAGE**

15-S132

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



C5 DISPATCH GARAGE TUNNEL BUILDING CONNECTION TO BIRCHES
NOT TO SCALE

**PRELIMINARY
- NOT FOR
CONSTRUCTION**

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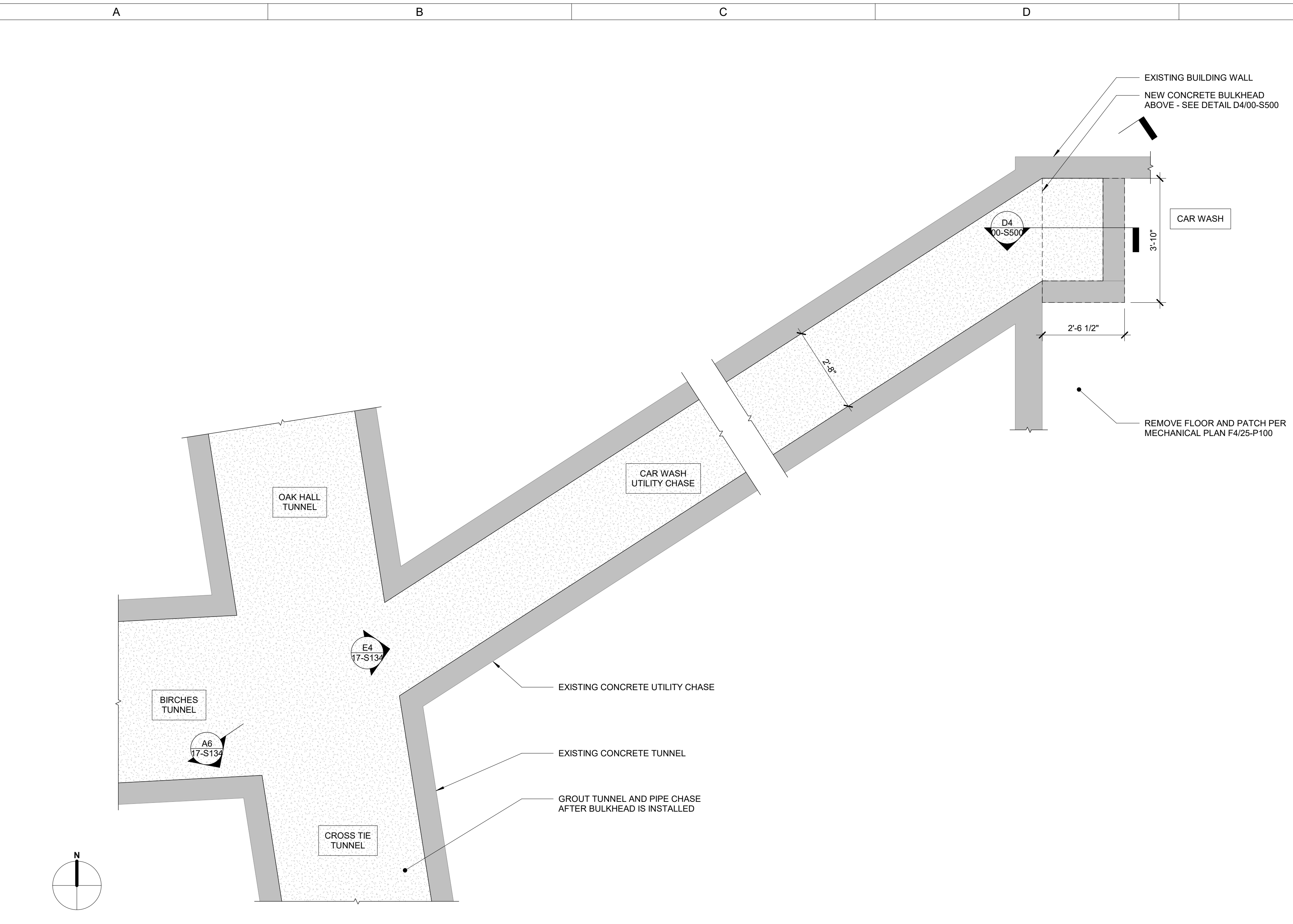
**IA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
SPACE AND FACILITY MANAGEMENT
34 CEDAR ST. WOODWARD, IA 50276

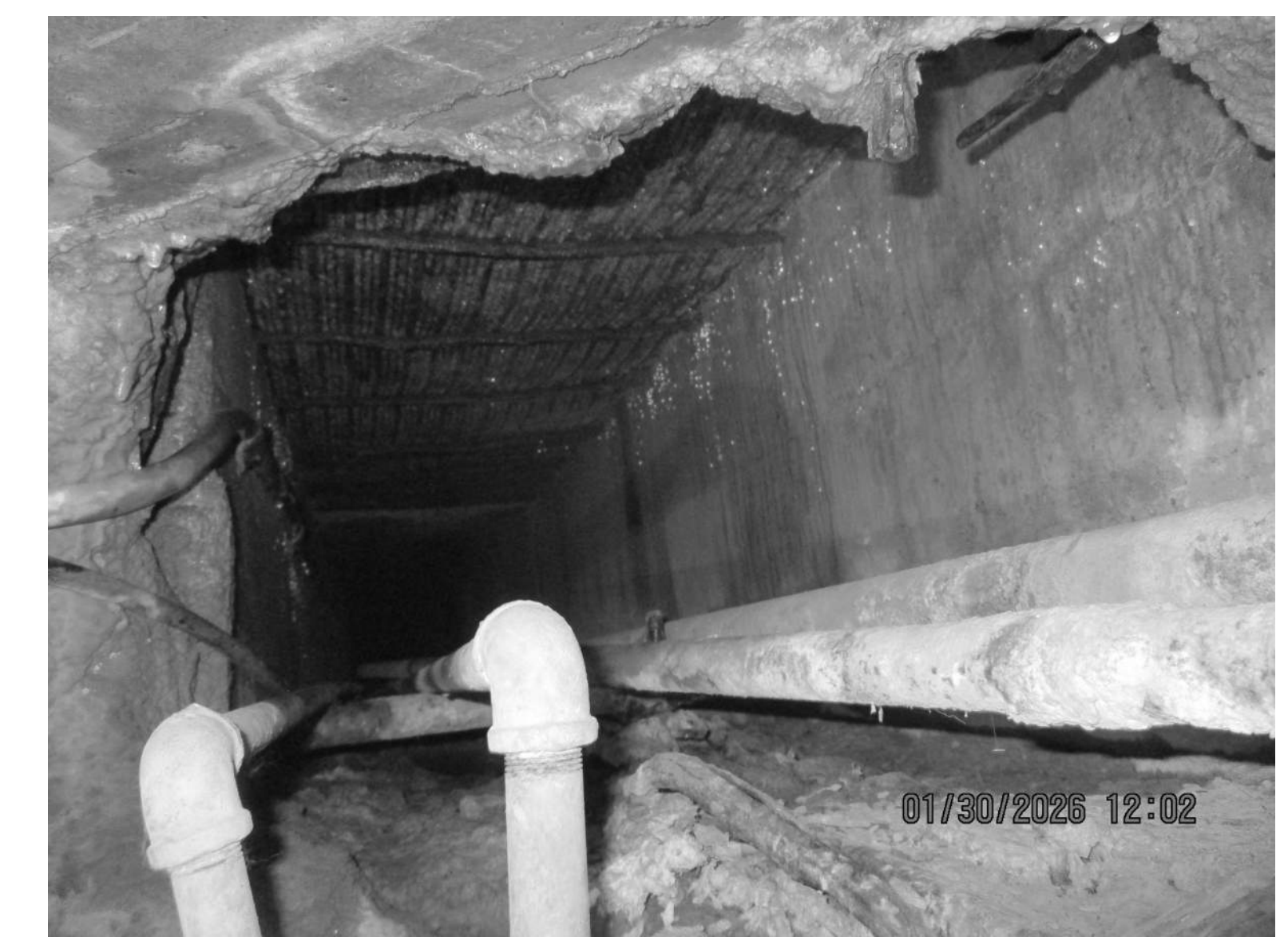
**PRELIMINARY
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CONSTRUCTION**

DRAWN BY	KAB
APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

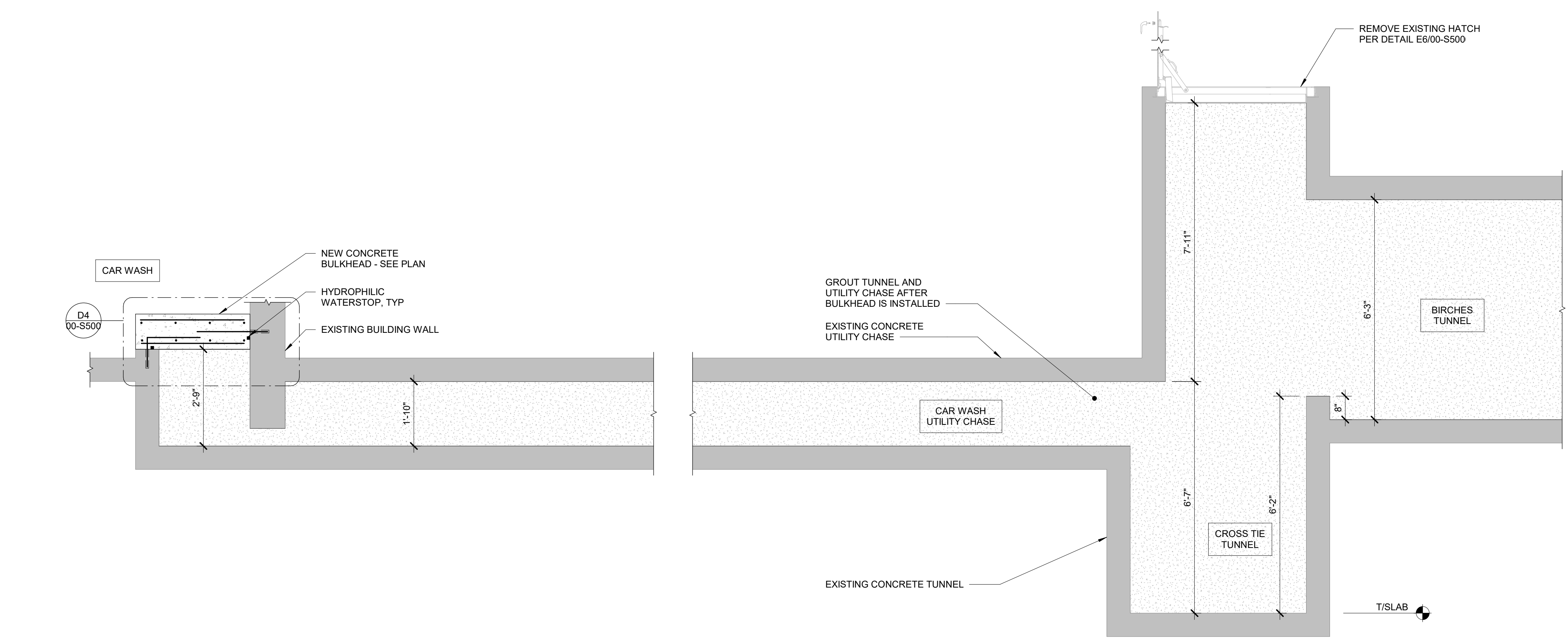
**CAR WASH
UTILITY CHASE**
17-S134



A4 CAR WASH UTILITY CHASE PLAN
1/2" = 1'-0" 0' 3'

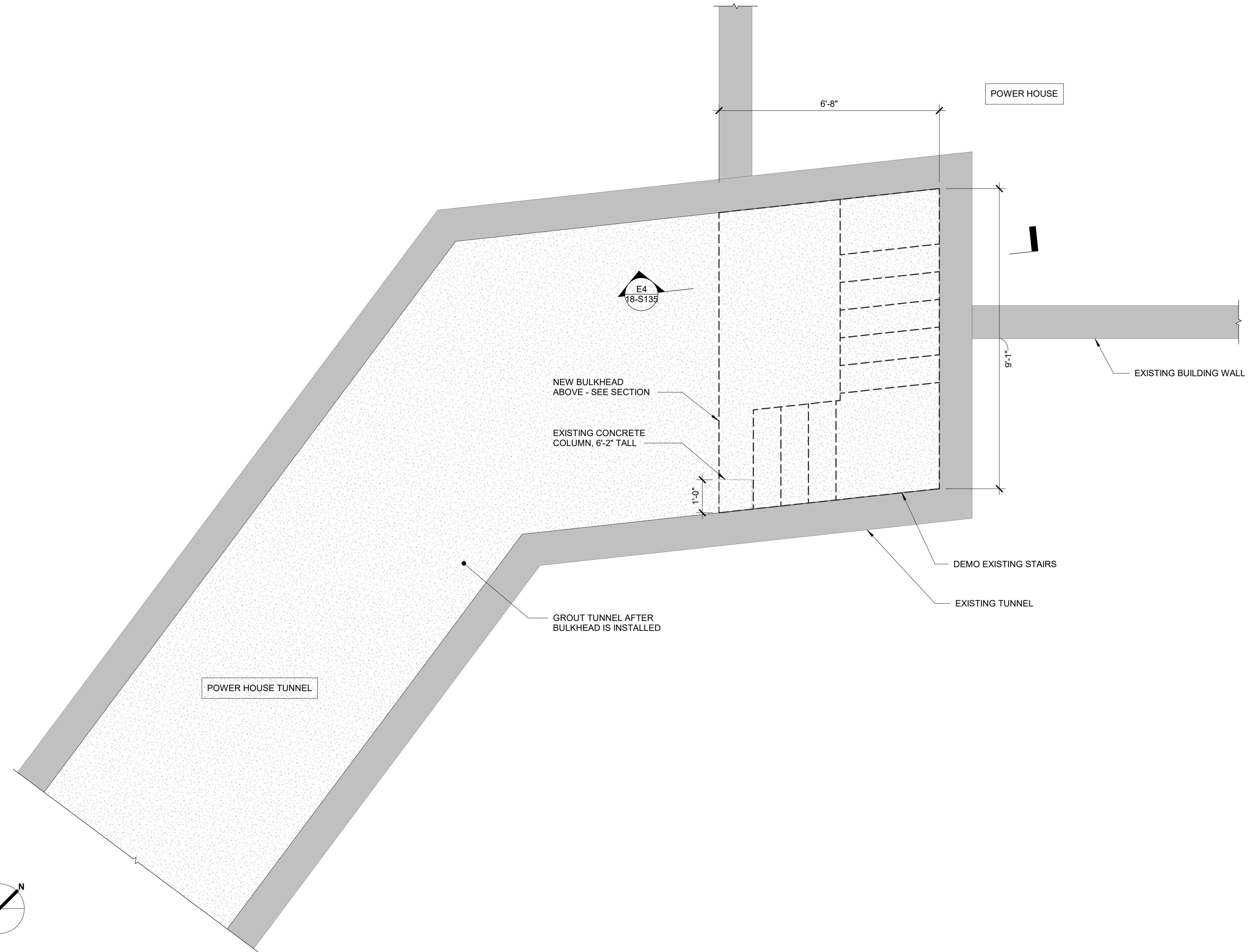


E4 CAR WASH UTILITY CHASE
NOT TO SCALE

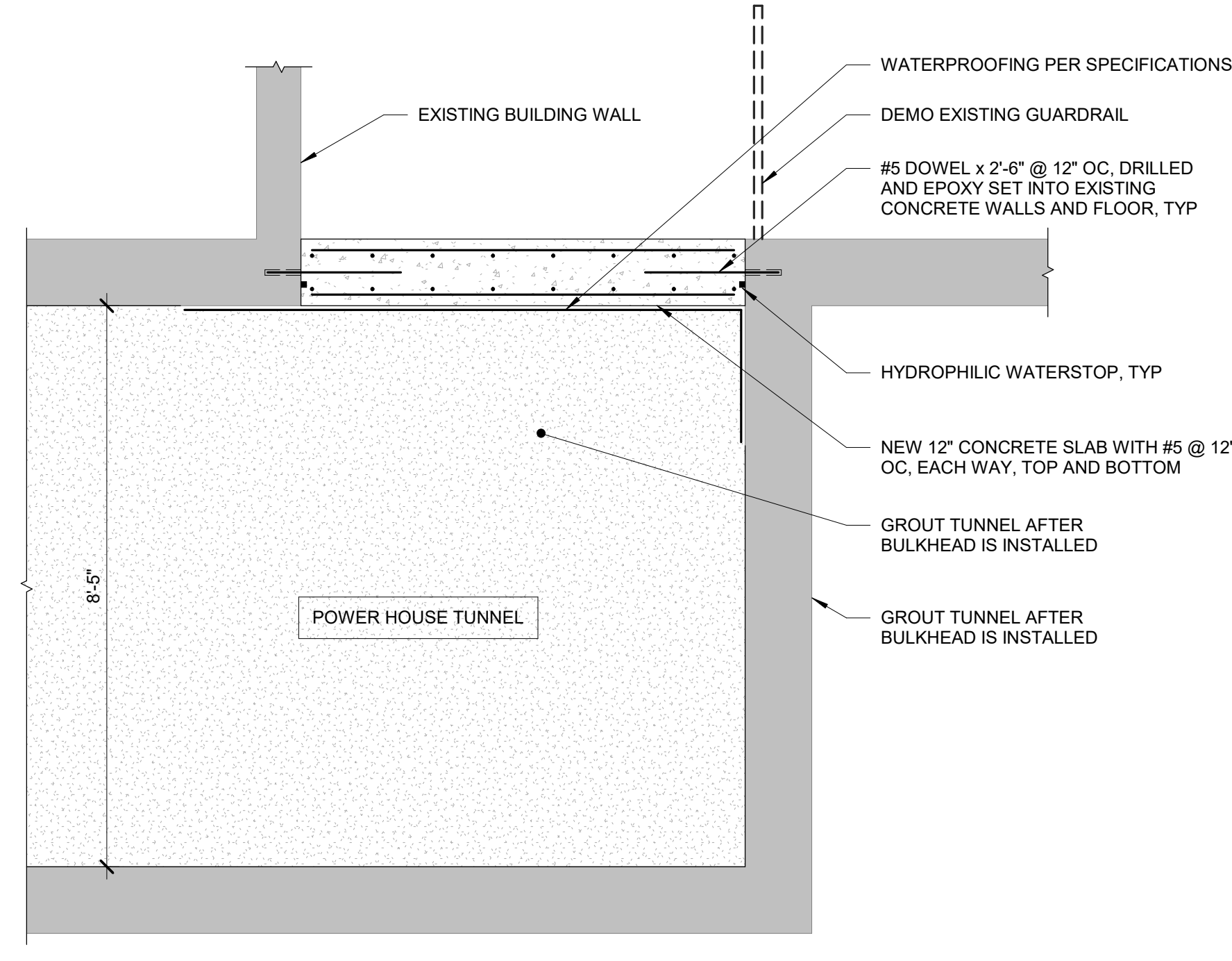


A6 CAR WASH UTILITY CHASE SECTION
1/2" = 1'-0" 0' 3'

ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A4 POWER HOUSE PLAN
1/2" = 1'-0" 0 3'



E4 POWER HOUSE SECTION
1/2" = 1'-0" 0 3'

**I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF PROJECT NUMBERING
314 CEDAR ST., WOODWARD, IA 50276

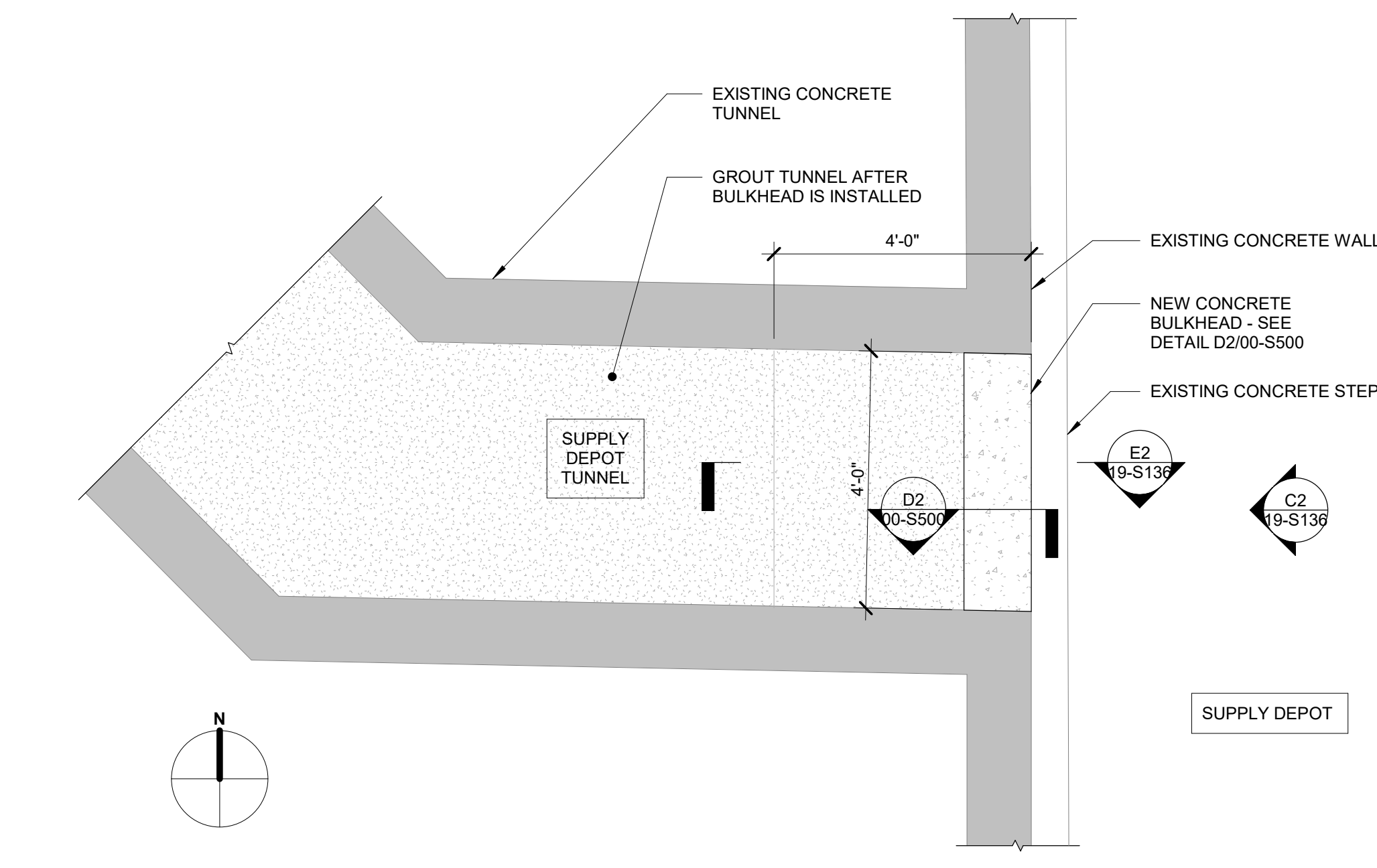
**PRELIMINARY
- NOT FOR
CONSTRUCTION**

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APPROVED BY	MM
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

POWER HOUSE

18-S135

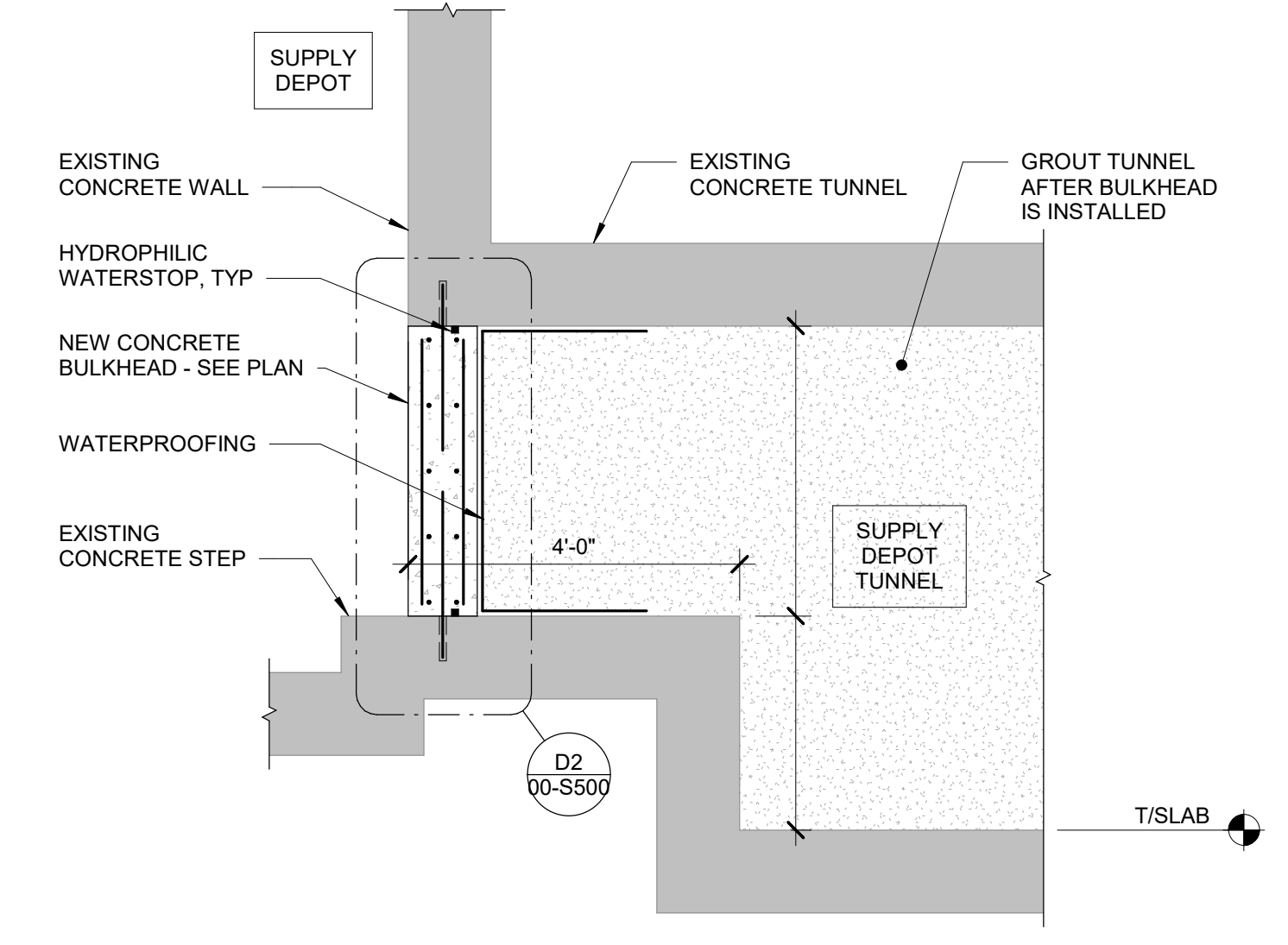
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A2 SUPPLY DEPOT PLAN
1/2" = 1'-0" 0" 3"



C2 SUPPLY DEPOT TUNNEL BUILDING CONNECTION
NOT TO SCALE



E2 SUPPLY DEPOT SECTION
1/2" = 1'-0" 0" 3"

I/A DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF PROJECT NUMBERING & RECORDS
314 CEDAR ST. WOODWARD, IA 50276

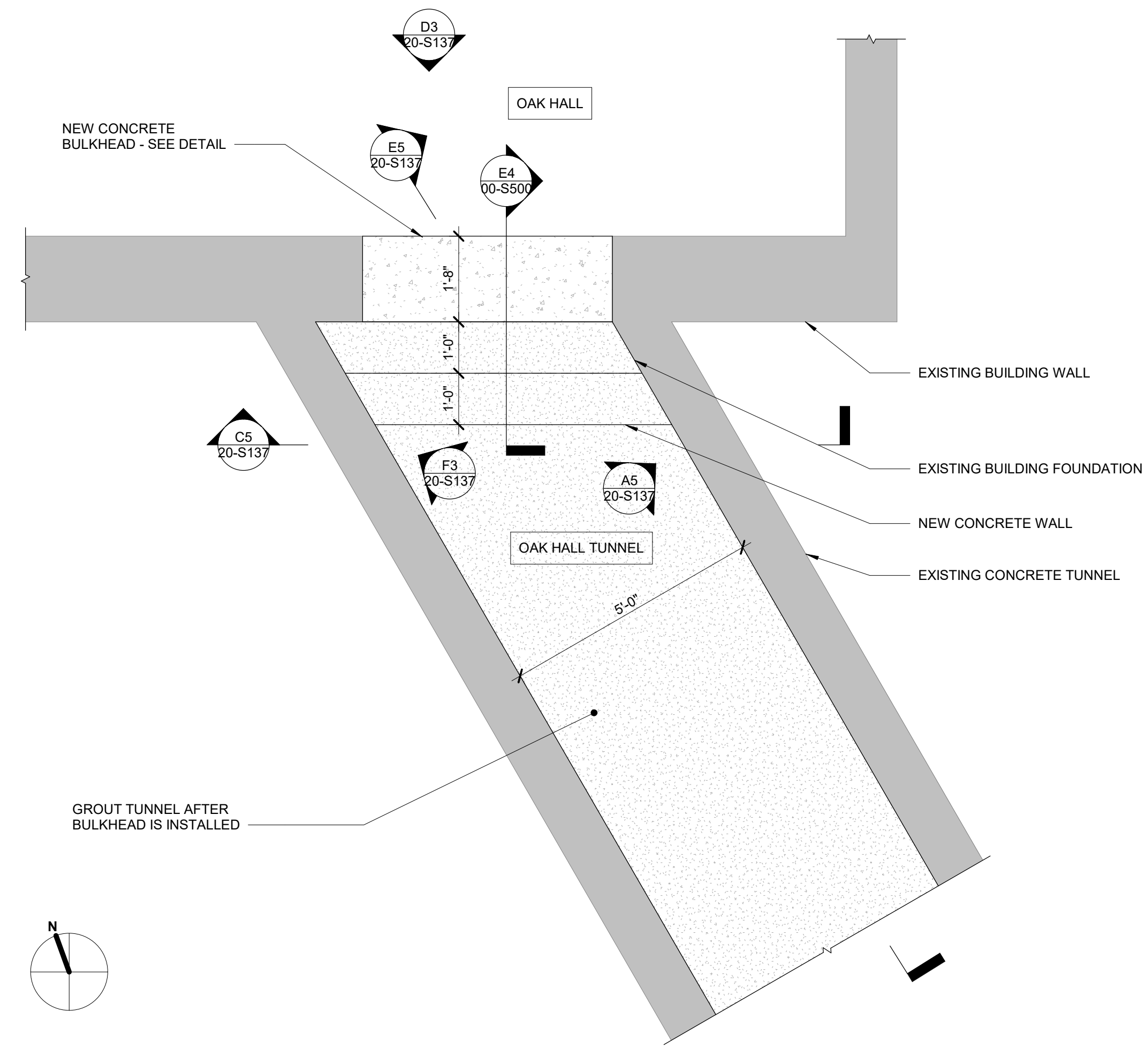
PRELIMINARY
- NOT FOR
CONSTRUCTION

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ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

SUPPLY DEPOT

19-S136

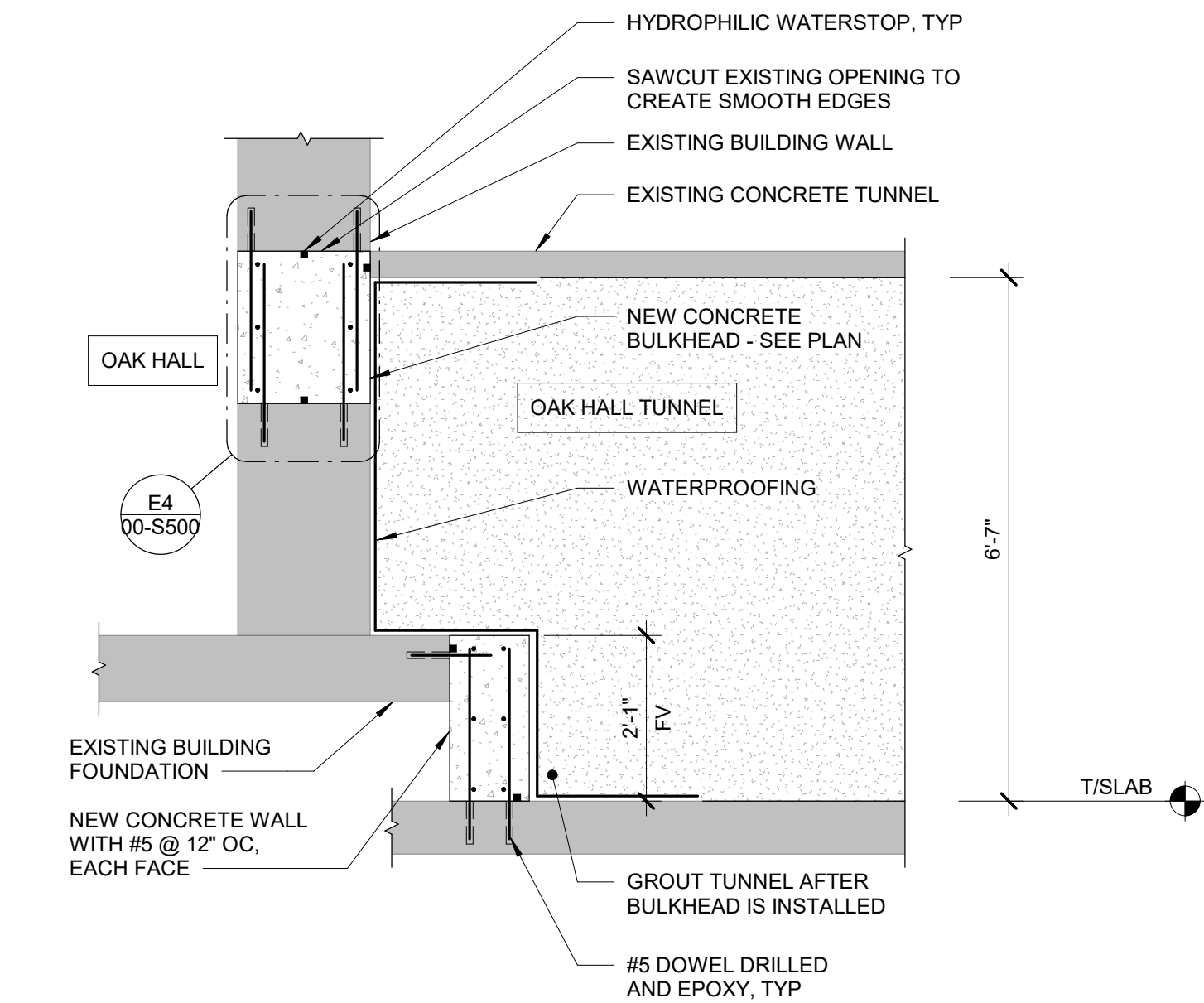
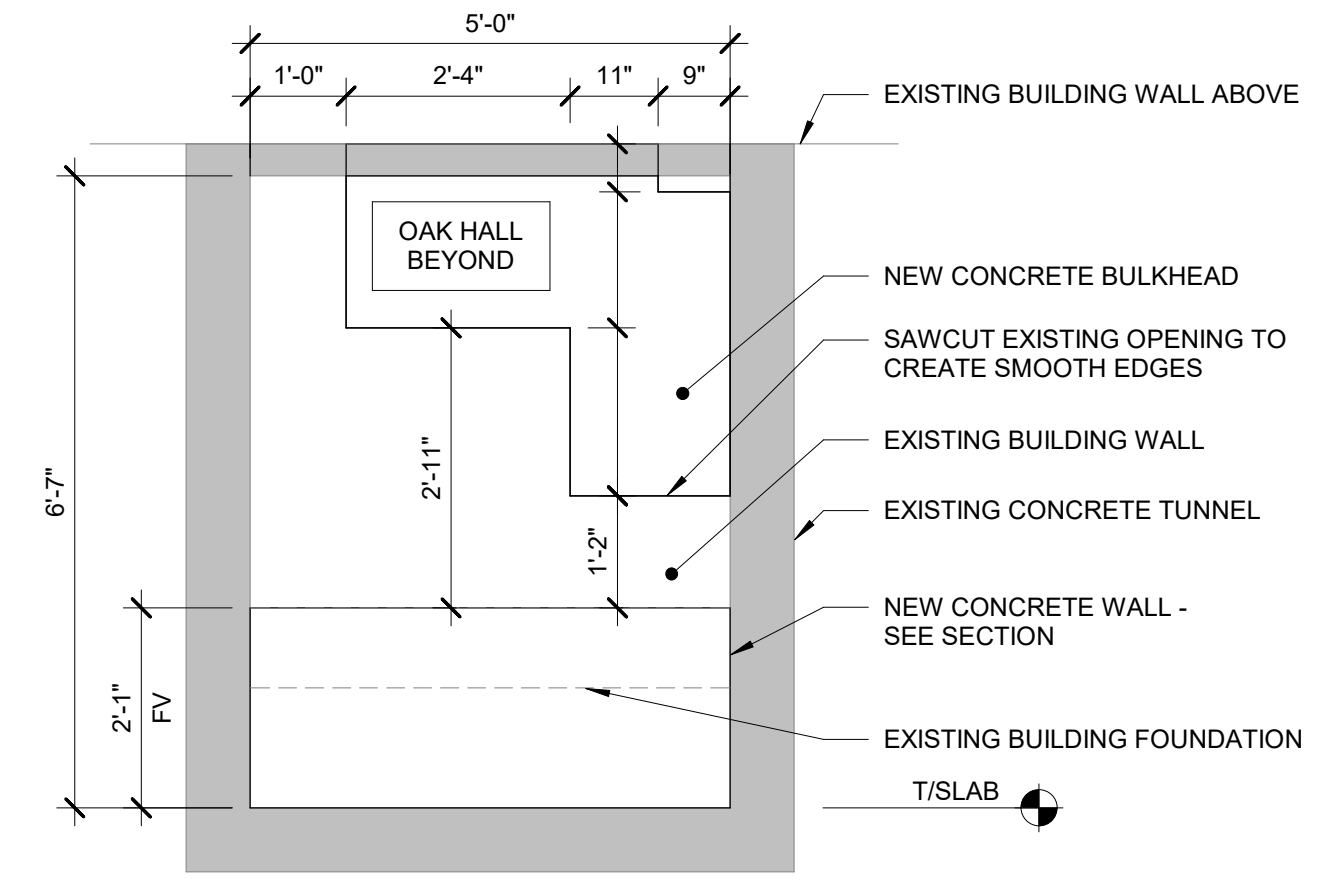
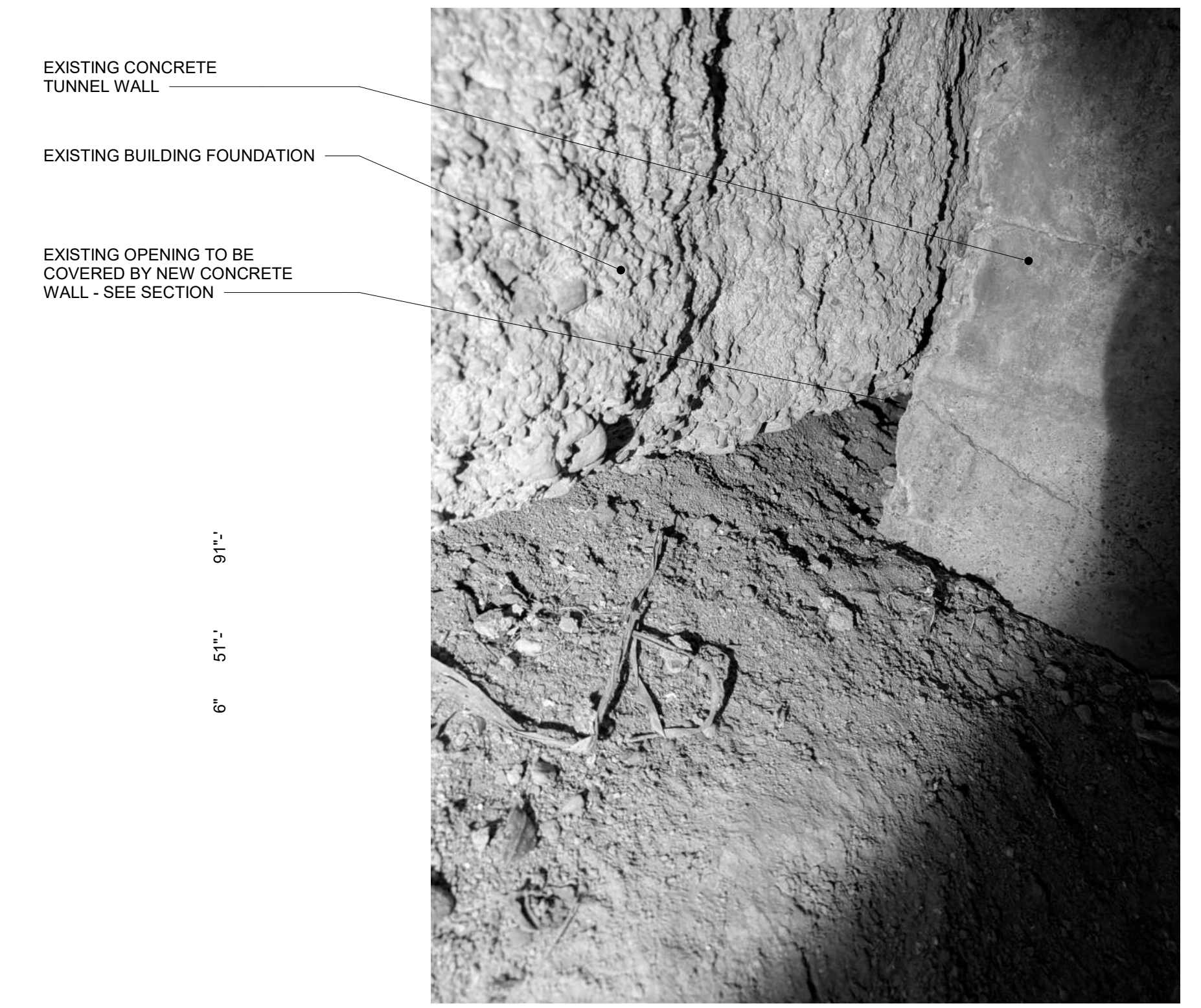
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A3 OAK HALL PLAN
1/2" = 1'-0" 0 3'

D3 OAK HALL TUNNEL ENTRY BUILDING CONNECTION
NOT TO SCALE

F3 OAK HALL OPENING AT TUNNEL WALL
NOT TO SCALE



A5 OAK HALL OPENING AT TUNNEL WALL
NOT TO SCALE

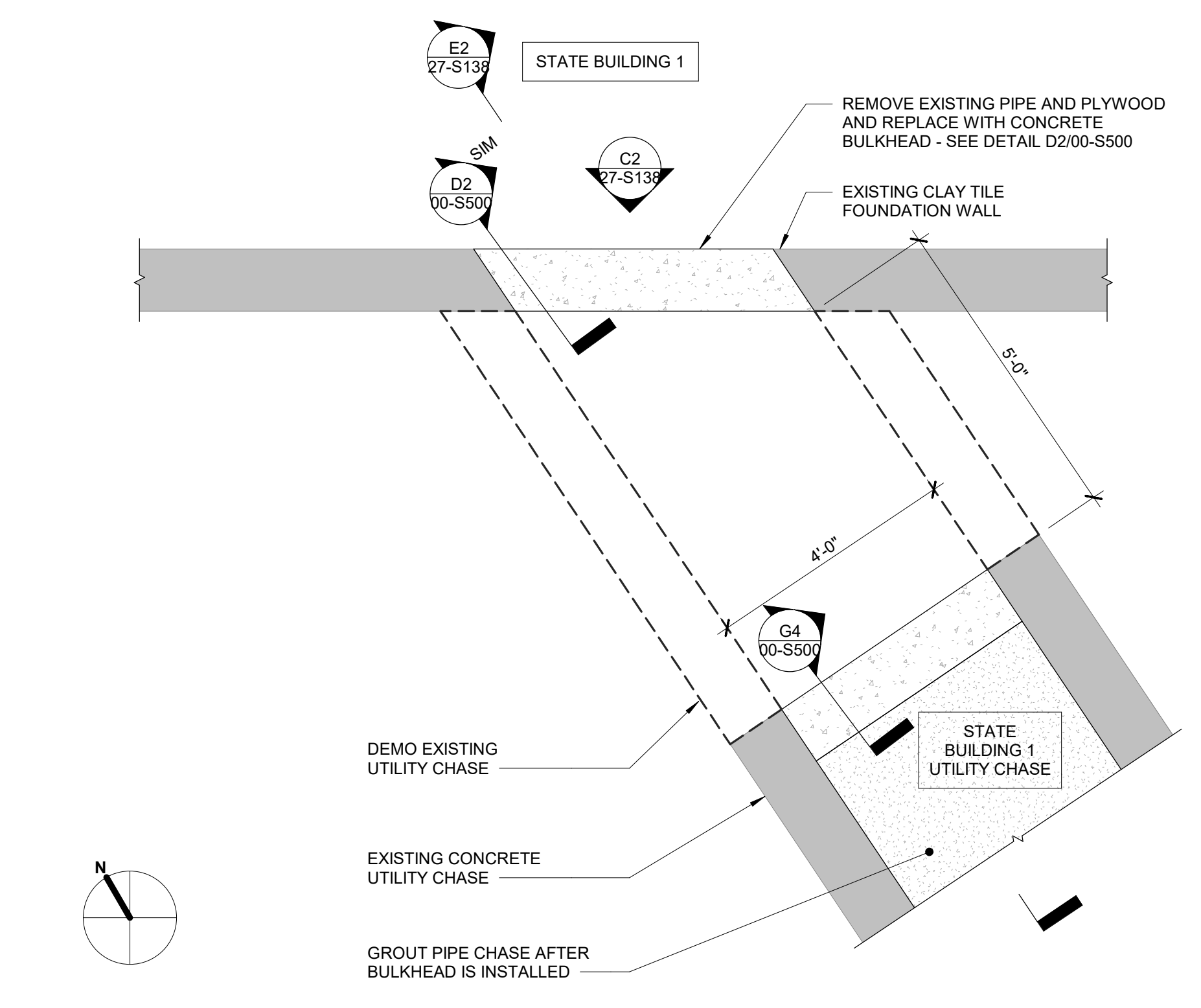
C5 OAK HALL BULKHEAD ELEVATION
1/2" = 1'-0" 0 3'

E5 OAK HALL SECTION
1/2" = 1'-0" 0 3'

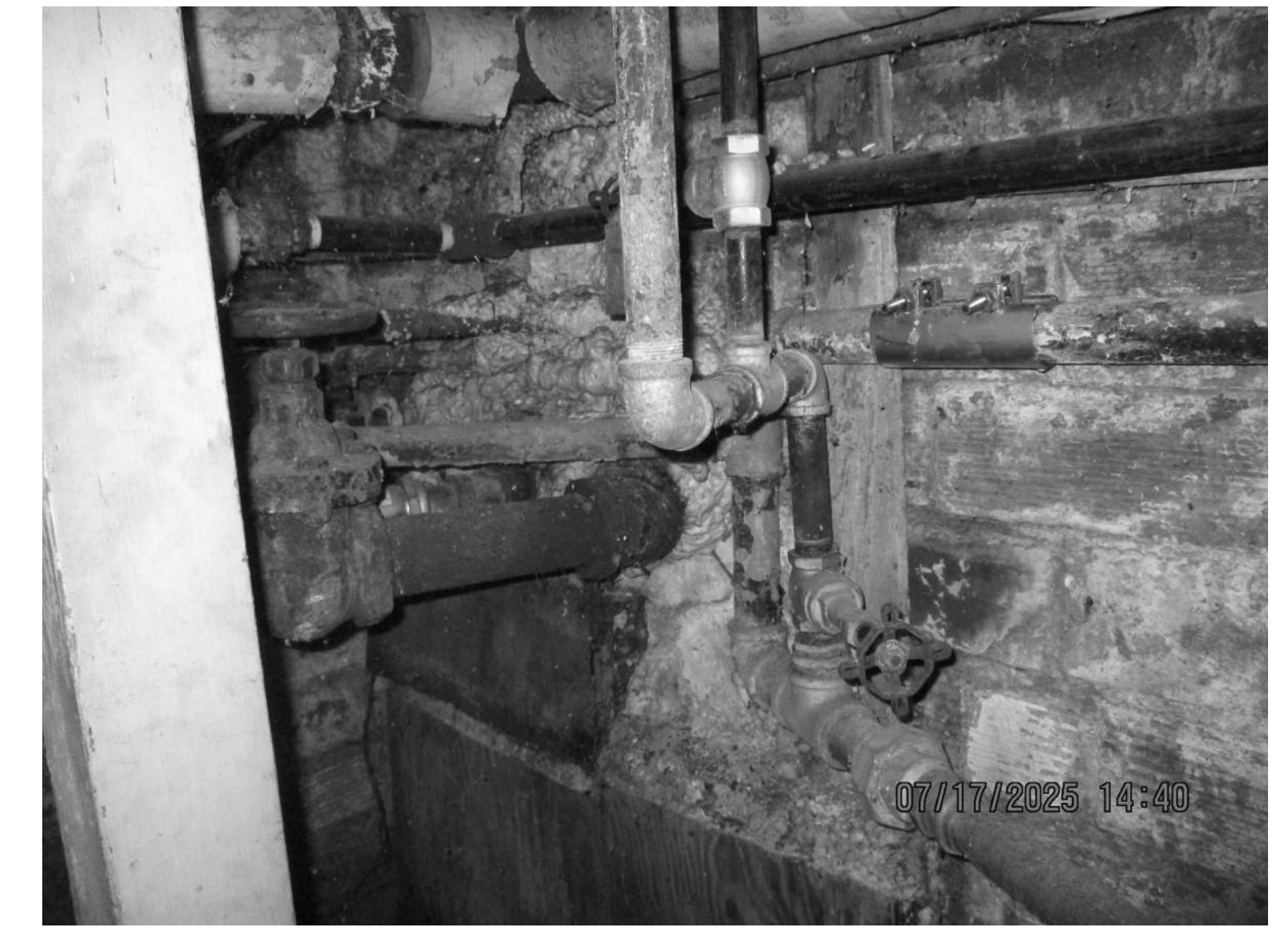
PRELIMINARY
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ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2440007040
FIELD BOOK	

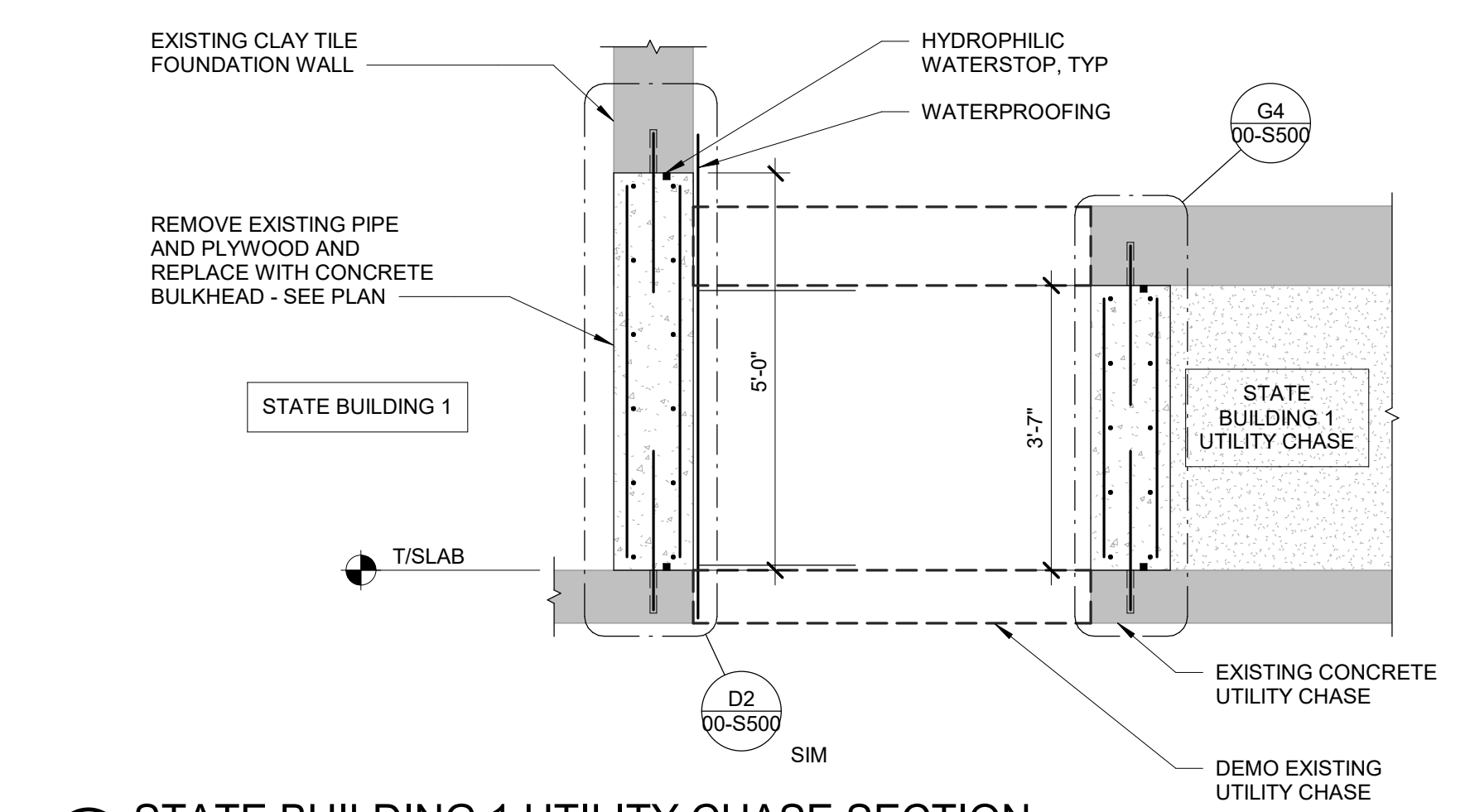
ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. DIMENSIONS PROVIDED ARE FOR RELATIVE SCOPE OF PROJECT, AND SHOULD NOT BE USED TO CALCULATE QUANTITIES WITHOUT FIELD VERIFICATION OF CONDITIONS FIRST.



A2 STATE BUILDING 1 UTILITY CHASE PLAN
1/2" = 1'-0" 0 3'



C2 STATE BUILDING 1 UTILITY CHASE CONNECTION
NOT TO SCALE



E2 STATE BUILDING 1 UTILITY CHASE SECTION
1/2" = 1'-0" 0 3'

**IA DAS - HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

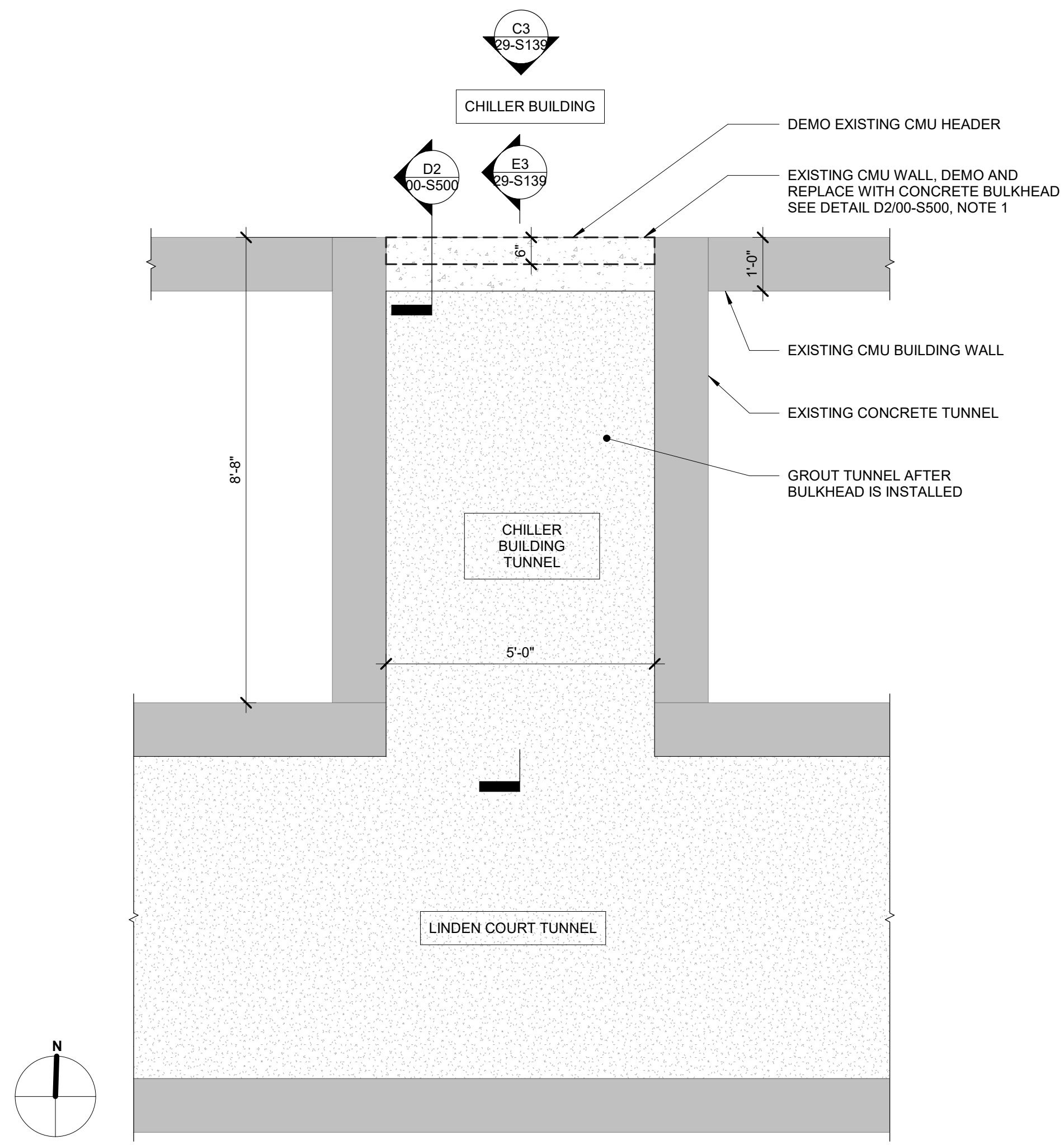
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE AND PROJECT NUMBER: 2473-20
34 CEDAR ST., WOODWARD, IA 50276

STATE BUILDING 1 UTILITY CHASE

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ISSUE DATE	04/24/2025
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FIELD BOOK	

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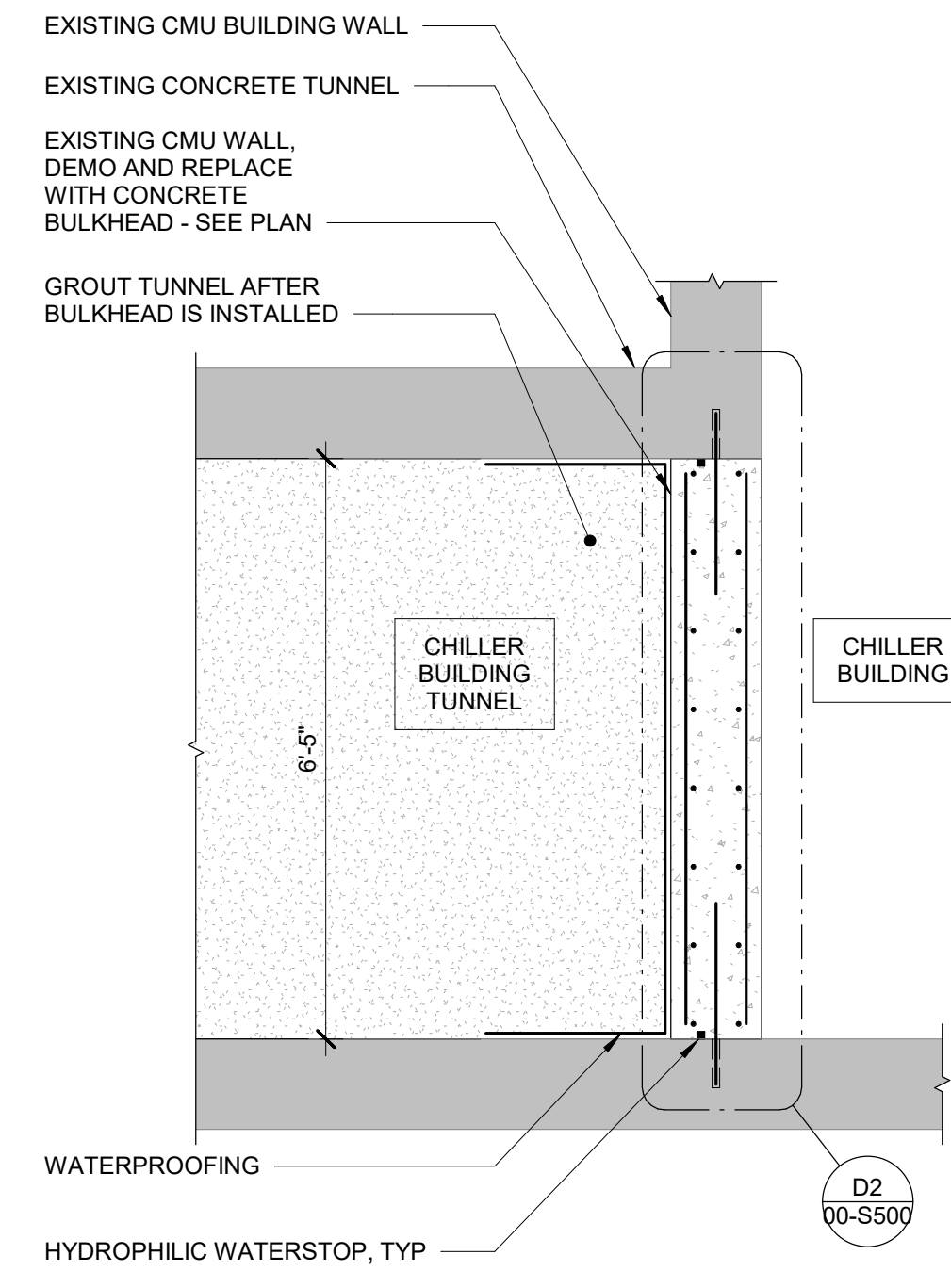


- NOTES:
1. DO NOT REMOVE EXISTING LINTEL.

A3 CHILLER BUILDING NEW BULKHEAD PLAN
1/2" = 1'-0" 0 3'



C3 CHILLER BUILDING TUNNEL BUILDING CONNECTION
1" = 1'-0" 0 1'-6"



E3 CHILLER BUILDING SECTION
1/2" = 1'-0" 0 3'

PRELIMINARY
- NOT FOR
CONSTRUCTION

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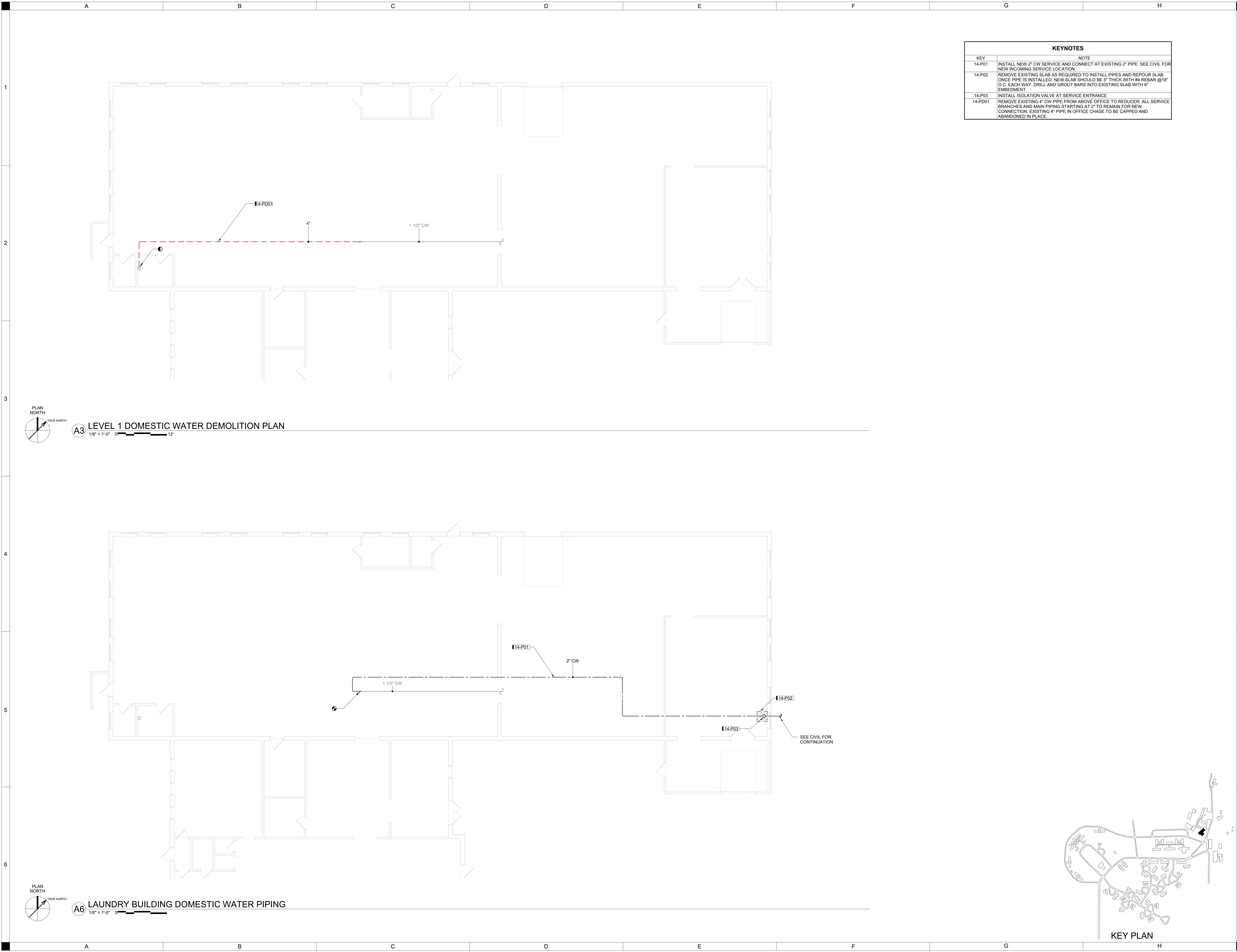
CHILLER
BUILDING

29-S139

A	B	C	D	E	F	G	H
<p>MECHANICAL ABBREVIATIONS</p> <p>SYMBOLS</p> <p>& AND @ NUMBER OF POUND</p> <p>A/E ARCHITECT/ENGINEER A/C AIR CONDITIONING ACH AIR CHANGES PER HOUR ACCU AIR COOLED CONDENSING UNIT ACU AIR CONDITIONING UNIT AD ACCESS DOOR ADJ ADJUSTABLE/ADJACENT AFF ABOVE FINISHED FLOOR AHU AIR HANDLING UNIT ALT AIR TREATMENT AMB AMBIENT AP ACCESS PANEL APPROX APPROXIMATELY ASD ADJUSTABLE SPEED DRIVE AS AIR SEPARATOR ASSY ASSEMBLY ATM ATMOSPHERE AUX AUXILIARY AV AIR VENT AVG AVERAGE</p> <p>B/BAS BUILDING AUTOMATION SYSTEM BCU BLOWER COIL UNIT BDD BACKDRAFT DAMPER BFF BELOW FINISHED FLOOR BFBP BOILER FEED BOOSTER PUMP BHP BREAKER/POWER BLDG BUILDING BMS BUILDING MANAGEMENT SYSTEM BOD BOTTOM OF DUCT BOP BOTTOM OF PIPE BTU BRITISH THERMAL UNIT BTUH BRITISH THERMAL UNITS PER HOUR</p> <p>C/CAL CALIBRATE CAP CAPACITY CAV CONSTANT AIR VOLUME CCR CONCENTRIC REDUCER CCW COUNTER CLOCKWISE CDWR CONDENSER WATER RETURN CDWS CONDENSER WATER SUPPLY CFM CUBIC FEET PER MINUTE CFH CUBIC FEET PER HOUR CH CHILLER CHP CHILLED WATER PUMP CHWS CHILLED WATER SUPPLY CHWR CHILLED WATER RETURN CHSP CHILLED WATER SECONDARY PUMP CIP CAST IRON PIPE CIRC CIRCUITING CISC CAST IRON SOIL PIPE CIPR LOW PRESSURE CONDENSATE RETURN CLR CEILING CLG CLEARANCE CLW CLOUDBASE CO CARBON MONOXIDE CO2 CARBON DIOXIDE COND CONDENSATE CONSTR CONSTRUCTION CONT CONTINUATION CONTR CONTRACTOR CONV CONVERTER COORD COORDINATE CP CONDENSATE PUMP CRT CONDENSATE RETURN TANK CT COOLING TOWER CU CUP CU FT CUBIC FEET CU IN CUBIC INCH CUH CABINET UNIT HEATER CWP CONDENSER WATER PUMP</p> <p>D/*DEG DEGREE °C DEGREES CELSIUS °F DEGREES FAHRENHEIT DB DRY BULB DDC DIRECT DIGITAL CONTROLS DEMO DEMOLITION DIA DIAMETER DIAG DIAGRAM DIFF DIFFUSER DIP DUCTILE IRON PIPE DMPR DAMPER DN DOWN DW DISHWASHER DWG DRAWING</p> <p>E/EAX EXHAUST AIR OR EACH EAT ENTERING AIR TEMPERATURE ECR ECCENTRIC REDUCER ECON ECONOMIZER EVC EVAPORATIVE COOLING UNIT EDB ENTERING DRY BULB (TEMP) EER ENERGY EFFICIENCY RATIO EF EXHAUST FAN / ENERGY FACTOR EG EXHAUST GRILLE EH EXHAUST HOOD ELEV ELEVATION ELEC ELECTRICAL EQ EQUIPMENT EQU EQUIVALENT ER EXHAUST REGISTER ESP EXTERNAL STATIC PRESSURE EXP EXPANSION TANK EWB ENTERING WET BULB EWT ENTERING WATER TEMPERATURE EX EXISTING</p> <p>F/FAN FAN COIL UNIT FD FIRE DAMPER FOT DUCT FLAT ON TOP FPT FEMALE PIPE THREAD FS FLOW SWITCH FSEC FLOOD SERVICE EQUIPMENT CONTRACTOR FSD FIRE/SMOKE DAMPER FT FLASH TANK FT FINNED TUBE RADIATION FTHD FOOT HEAD OR PRESSURE DROP</p> <p>G/GA GAUGE GAL GALLON GALV GALVANIZED SD SCHEMATIC SCHM SECONDARY CHILLED WATER PUMP SCVP SMOKE DAMPER SEER SEASONAL ENERGY EFFICIENCY RATIO SF SQUARE FEET SHT SHEET SP STATIC PRESSURE SPEC SPECIFICATION(S) SQ IN SQUARE INCH SS STAINLESS STEEL STBY STANDBY STD STANDARD STL STEEL SUCTION SUCTION SV SAFETY VALVE SYS SYSTEM SRV SAFETY RELIEF VALVE</p> <p>H/HUMIDISTAT HUMIDISTAT HG HORIZONTAL HORIZ HORIZONTAL HRS HORSEPOWER HPR HIGH PRESSURE STEAM RETURN HTG HIGH PRESSURE STEAM SUPPLY HTR HEATER HVAC HEATING, VENTILATION, AIR CONDITIONING HX HEAT EXCHANGER HZ HERTZ (FREQUENCY)</p> <p>I/INS INSULATION ID INSIDE DIAMETER IE INVERT ELEVATION IN INCHES IN WC INCHES (WATER COLUMN) INS INSULATION INSTR INSTRUMENT IP IRON PIPE IPS IRON PIPE SIZE IPV INTEGRATED PART LOAD VALVE ISO ISOMETRIC</p> <p>K/KELVIN KELVIN KWH KILOWATT HOUR</p> <p>L/LEAVING AIR TEMPERATURE LB(S) POUND(S) LOB LEAVING DRY BULB (TEMP) LPC LOW PRESSURE CONDENSATE RETURN LPS LOW PRESSURE STEAM LWB LEAVING WET BULB (TEMP) LWT LEAVING WATER TEMPERATURE</p> <p>M/MAINT MAINTENANCE MAU MAKE-UP AIR UNIT MAX MAXIMUM MBH BRITISH THERMAL UNIT (1000HR) MC MECHANICAL CONTRACTOR MCC MOTOR CONTROL CENTER MCA MINIMUM CIRCUIT AMPS MECH MECHANICAL MFR MANUFACTURER MIN MINIMUM OR MINUTE MISC MISCELLANEOUS MOD MOTOR OPERATED DAMPER MOV MOTOR OPERATED VALVE MPT MALE PIPE THREAD</p> <p>N/NOT APPLICABLE NC NORMALLY CLOSED OR NOISE CRITERIA NIC NOT IN CONTRACT NO NORMALLY OPEN NOM NOMINAL NPLV NON STANDARD PART LOAD VALUE NPT NATIONAL PIPE THREAD NTS NOT TO SCALE</p> <p>O/OA OUTDOOR AIR OAD OUTDOOR AIR DAMPER OD OUTER DIAMETER OFCI OWNER FURNISHED CONTRACTOR OFI OWNER FURNISHED OWNER INSTALLED</p> <p>P/PRIMARY CHILLED WATER PUMP PCWP PRIMARY CHILLED WATER PUMP PG PHASE PRV PRESSURE RELIEF VALVE OR PRESSURE PSIA POUNDS PER SQUARE INCH ABSOLUTE PSIG POUNDS PER SQUARE INCH GAUGE PH PROPELLER UNIT HEATER</p> <p>R/RETURN AIR REFR REFRIGERATION REQD REQUIRED RG RETURN AIR GRILLE RH RELATIVE HUMIDITY RHC REHEAT COIL RPM REVOLUTIONS PER MINUTE RPZ REDUCED PRESSURE ZONE RTU ROOFTOP UNIT</p> <p>S/SUPPLY AIR SCH SCHEDULE SCHM SCHEMATIC SCVP SECONDARY CHILLED WATER PUMP SD SMOKE DAMPER SEER SEASONAL ENERGY EFFICIENCY RATIO SF SQUARE FEET SHT SHEET SP STATIC PRESSURE SPEC SPECIFICATION(S) SQ IN SQUARE INCH SS STAINLESS STEEL STBY STANDBY STD STANDARD STL STEEL SUCTION SUCTION SV SAFETY VALVE SYS SYSTEM SRV SAFETY RELIEF VALVE</p> <p>T/THERMOSTAT THERMOSTAT TAB TERMINAL AIR BOX TCC TEMPERATURE CONTROL CONTRACTOR TEF TERTIALLY ENCLOSED FAN COOLED TEMP TEMPERATURE OR TEMPORARY THRU THROUGH TOD TOP OF DUCT TOP TOP OF PIPE TP TOTAL PRESSURE TYP TYPICAL</p> <p>UL UNDERWRITERS LABORATORIES UNO UNLESS NOTED OTHERWISE UTL UTILITY UV UNIT VENTILATOR</p> <p>V/VARIABLE AIR VOLUME VAV VALVE BOX VSD VOLUME DAMPER VEL VELOCITY VERT VERTICAL VFD VARIABLE FREQUENCY DRIVE</p> <p>W/WITH W/O WITHOUT WB WET BULB WH WALL HYDRANT WPD WATER PRESSURE DROP WT WEIGHT WTR WATER</p>		<p>MECHANICAL SYMBOLS LEGEND</p> <p>8" CHWS PIPE SIZE, SYSTEM AND FLOW TAG (DIA)</p> <p>CHWS EXISTING TO REMAIN</p> <p>CHWS TO BE DEMOLISHED</p> <p>CHWR CHILLED WATER RETURN</p> <p>CHWS CHILLED WATER SUPPLY</p> <p>CA COMPRESSED AIR</p> <p>CDWR CONDENSER WATER RETURN</p> <p>CDWS CONDENSER WATER SUPPLY</p> <p>GTR GEOTHERMAL RETURN</p> <p>GTS GEOTHERMAL SUPPLY</p> <p>HWR HEATING WATER RETURN</p> <p>HWS HEATING WATER SUPPLY</p> <p>HPC HIGH PRESSURE CONDENSATE</p> <p>HPS HIGH PRESSURE STEAM</p> <p>LPC LOW PRESSURE CONDENSATE</p> <p>LP LOW PRESSURE STEAM</p> <p>PD PUMP DISCHARGE</p> <p>RHG REFRIGERANT - HOT GAS</p> <p>RL REFRIGERANT - LIQUID</p> <p>RS REFRIGERANT - SUCTION</p> <p>SHWR SOLAR HOT WATER RETURN</p> <p>SHWS SOLAR HOT WATER SUPPLY</p> <p>BALANCING VALVE</p> <p>BALL VALVE</p> <p>CHECK VALVE</p> <p>THREE-WAY VALVE</p> <p>MOTORIZED CONTROLVALVE</p> <p>THREE-WAY MOTORIZED CONTROLVALVE</p> <p>PRESSURE REDUCING VALVE</p> <p>SOLENOIDVALVE</p> <p>BUTTERFLY VALVE</p> <p>STEAM TRAP</p> <p>EXPANSION JOINT</p> <p>ELBOW UP</p> <p>ELBOW DOWN</p> <p>PIPE OFFSET UP</p> <p>PIPE OFFSET DOWN</p> <p>PIPE TEE TURNED UP</p> <p>PIPE TEE TURNED DOWN</p> <p>PIPE TEE</p> <p>PIPE CAP</p> <p>PIPE UNION</p> <p>PIPE TRANSITION</p> <p>DUCT SIZE TAG (SQ. OR RECT.)</p> <p>DUCT SIZE TAG (ROUND)</p> <p>EXISTING TO REMAIN</p> <p>TO BE DEMOLISHED</p> <p>SUPPLY DUCT (SA)</p> <p>RETURN DUCT (RA)</p> <p>EXHAUST DUCT (EA)</p> <p>SQ. OR RECT. ELBOW TURNED UP W/ TAG</p> <p>SQ. OR RECT. ELBOW TURNED DOWN W/ TAG</p> <p>ROUND ELBOW TURNED UP W/ TAG</p> <p>ROUND ELBOW TURNED DOWN W/ TAG</p> <p>FLEXIBLE DUCT</p> <p>45° TAP BRANCH TAKE-OFF</p> <p>CONICAL TAP ROUND BRANCH TAKE-OFF</p> <p>CONICAL TAP ROUND BRANCH TAKE-OFF W/ MANUAL VOLUME DAMPER</p> <p>DOUBLE SIDED TRANSITION</p> <p>SINGLE SIDED TRANSITION</p> <p>SQ. OR RECT. ELBOW WITH TURNING VANES (45° AND 90°)</p> <p>SQ. OR RECT. TEE WITH TURNING VANES</p> <p>RADIUS ELBOW (45° AND 90°)</p> <p>MANUAL VOLUME DAMPER</p> <p>FIRE DAMPER</p> <p>SMOKE DAMPER</p> <p>FIRE/SMOKE DAMPER</p> <p>MOTORIZED DAMPER</p> <p>DUCT SMOKE DETECTOR</p> <p>TYPE = SEE BELOW</p> <p>ID. NO. - SEE SCHEDULE</p> <p>NECK SIZE IN INCHES (ROUND SHOWN)</p> <p>AIR FLOW (CFM)</p> <p>DIFFUSER, GRILLE, REGISTER NOTATIONS</p> <p>CD = CEILING DIFFUSER RR = RETURN REGISTER EG = EXHAUST DIFFUSER SG = SUPPLY GRILLE ER = EXHAUST REGISTER SR = SUPPLY REGISTER LD = LINEAR DIFFUSER TG = TRANSFER GRILLE RG = RETURN GRILLE</p> <p>KEYNOTE</p> <p>CAP EXISTING PIPE OR DUCT</p> <p>NEW CONNECTION INTO EXISTING PIPE OR DUCT</p> <p>AIR FLOW ARROW POSITIVE PRESSURE</p> <p>AIR FLOW ARROW NEGATIVE PRESSURE</p> <p>CO CARBON DIOXIDE SENSOR</p> <p>CO CARBON MONOXIDE SENSOR</p> <p>NO NITROGEN DIOXIDE SENSOR</p> <p>P PRESSURE SENSOR</p> <p>T TEMPERATURE SENSOR</p> <p>TS THERMOSTAT</p> <p>H HUMIDISTAT OR HUMIDITY SENSOR</p> <p>THERMOMETER</p> <p>PRESSURE GAUGE</p> <p>ANCHOR</p> <p>SUPPORT</p> <p>GUIDE</p> <p>DETAIL NUMBER</p> <p>SHEET NUMBER ON WHICH THE DETAIL RESIDES</p>		<p>MECHANICAL DUCTWORK</p> <p>1. LIGHT LINES INDICATE EXISTING PIPING, DUCTWORK, EQUIPMENT, ETC. TO REMAIN. BOLD LINES INDICATE PIPING, DUCTWORK, EQUIPMENT, ETC. TO BE INSTALLED BY THIS CONTRACTOR UNLESS NOTED OTHERWISE.</p> <p>2. NEW WORK HAS BEEN SHOWN DIAGRAMMATICALLY AND DUE TO THE LIMITED SCALE OF THESE DRAWINGS, THE PLACEMENT AND ROUTING OF ALL DUCTWORK, PIPING, ETC. IS CONSIDERED SCHEMATIC IN NATURE; THEREFORE IT IS RECOMMENDED THAT THE CONTRACTOR SHALL PROVIDE COMPLETE FULLY FUNCTIONAL SYSTEMS.</p> <p>3. COORDINATE ROUGH-IN AND FINAL LOCATION OF DUCTWORK AND PIPING WITH LIGHTING, STRUCTURE, SPRINKLERS, ETC. PROVIDE OFFSETS AND/OR EASEMENTS, OR RELOCATE AS REQUIRED AVOIDING CONFLICTS WITH WORK OF OTHER TRADES.</p> <p>4. INSTALL MANUAL VOLUME DAMPERS IN ALL SUPPLY, RETURN AND EXHAUST DUCT SYSTEMS AS REQUIRED FOR CONTROLLING AIR VOLUMES TO TRUNK DUCTS, BRANCH DUCTS, OUTLETS, AND INLETS. CONTRACTOR SHALL INSTALL A COMPLETE SYSTEM OF DAMPERS AS REQUIRED FOR BALANCING AIR SYSTEMS.</p> <p>5. PLACE DIFFUSERS AS CLOSE TO PLAN LOCATION AS POSSIBLE WITHOUT INTERFERING WITH LIGHT GRID.</p> <p>6. ALL EXPOSED DUCTWORK SHALL BE DOUBLE WALL INSULATED DUCT AND PAINTED. CONFIRM COLOR PRIOR TO PAINTING.</p> <p>7. THERMOSTATS SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH OTHER WALL MOUNTED DEVICES.</p> <p>8. PROVIDE CONCEALING FLANGES AT ALL VISIBLE DUCT PENETRATIONS THROUGH WALLS.</p> <p>9. ENSURE ALL MANUFACTURER RECOMMENDED CLEARANCES ARE MET FOR ALL EQUIPMENT.</p> <p>10. PROVIDE REQUIRED NEC CLEARANCE FOR ALL CONTROL PANELS INCLUDING VAV BOX CONTROL BOXES LOCATED ABOVE CEILING.</p> <p>11. DO NOT ROUTE ANY COMPONENTS ABOVE ELECTRICAL EQUIPMENT. MAINTAIN ALL CODE REQUIRED CLEARANCES.</p> <p>12. ALL FLOOR MOUNTED MECHANICAL EQUIPMENT SHALL BE MOUNTED ON MINIMUM 4" CONCRETE HOUSEKEEPING PADS.</p> <p>13. PREP ALL EXPOSED METAL DUCTWORK TO RECEIVE PAINT.</p> <p>14. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.</p> <p>15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.</p> <p>16. CONTRACTOR SHALL NOT PROCURE OR FABRICATE ANY PIPING, DUCTWORK OR OTHER EQUIPMENT WITHOUT FIRST VERIFYING ALL DIMENSIONS AND CONDITIONS WHETHER CURRENTLY EXISTING OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING ANY REQUIRED REWORK.</p> <p>17. MAINTAIN ALL MANUFACTURER RECOMMENDED EQUIPMENT SERVICE AND SAFETY CLEARANCES. DO NOT LOCATE ANY EQUIPMENT OR RUN MATERIALS ABOVE ANY ELECTRICAL PANELS OR SWITCHGEAR. MAINTAIN ALL NPANEC CODE REQUIRED CLEARANCES.</p> <p>18. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, SCHEDULING AND SEQUENCING OF THEIR WORK WITH ALL OTHER TRADES. PROVIDE OFFSETS, EASEMENTS, OR RELOCATE TO AVOID CONFLICTS WITH WORK OF OTHER TRADES. FURNISH SUFFICIENT RESOURCES TO MEET ALL PROJECT MILESTONES AND DEADLINES.</p> <p>19. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WATERTIGHT AND WEATHER-PROOF INTEGRITY OF ROOFS, WALLS AND FLOORS DURING CONSTRUCTION. EACH TRADE SHALL LOCATE/DIMENSION/COORDINATE THEIR ROOF, FLOOR AND WALL OPENINGS WITH THE CONSTRUCTION MANAGER.</p> <p>20. PROTECT NEW WORK FROM DAMAGE OR CONTAMINATION. PROVIDE TEMPORARY PROTECTIVE CAPPING OR TAPED POLYETHYLENE ENCLOSURES OVER OPEN DUCTWORK AND PIPING ENDS AND EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING MECHANICAL SYSTEMS PRIOR TO PLACING THEM IN SERVICE.</p> <p>21. IN A NEAT AND WORKMANLIKE MANNER. PATCH ANY REMAINING OPENINGS AND FILL EXCESSIVE GAPS; REWORK AND REFINISH TO MATCH ADJACENT STRUCTURES; FLASH AND SEAL ALL MECHANICAL AND ELECTRICAL PENETRATIONS THRU WALLS, CEILING, AND FLOORS WITH METAL FRAMEWORK OR ESCUTCHEONS. ALL OPENINGS SHALL BE PROPERLY SEALED SO AS TO MEET FIRE RATING NEEDS.</p> <p>22. ALL BRANCH DUCTWORK EQUIPMENT CONNECTION SIZE UNLESS OTHERWISE NOTED.</p> <p>23. PROVIDE ACCESS PANELS IN HARD LID CEILINGS TO ALLOW ACCESS FOR ALL DUCT MOUNTED EQUIPMENT (VOLUME DAMPERS, FIRE DAMPERS, FIRE/SMOKE DAMPERS, ETC.) COORDINATE LOCATION WITH CEILING PLAN AND ARCHITECTURAL REQUIREMENTS.</p> <p>24. ALL PIPING, EQUIPMENT AND DUCTWORK SUSPENDED BELOW THE ROOF SHALL BE SUSPENDED FROM THE STRUCTURE AND NOT THE ROOF DECK.</p>		<p>MECHANICAL PIPING</p> <p>1. PIPING IS SHOWN IN SCHEMATIC FORM. ROUTE AS REQUIRED FOR CLEARANCE. VERIFY ROUTING AND CLEARANCES AND COORDINATE WITH OTHER TRADES PRIOR TO FABRICATION. THE CONTRACTOR SHALL PROVIDE COMPLETE FULLY FUNCTIONAL SYSTEMS.</p> <p>2. BREAK CONNECTIONS REQUIRED AT ALL MAJOR EQUIPMENT AND PIPING ITEMS THAT REQUIRE REMOVAL FOR MAINTENANCE.</p> <p>3. PIPE REDUCTIONS ON HORIZONTAL PIPING GOING FROM LARGER TO SMALLER SHALL BE MADE WITH ECCENTRIC REDUCERS. TOP FLAT FOR LIQUID SYSTEMS. CONCENTRIC REDUCERS MAY BE USED FOR FLOW GOING FROM SMALL TO LARGER SIZE PIPE.</p> <p>4. FIRE SAFE ALL PIPE PENETRATIONS PER UL AT RATED WALLS.</p> <p>5. NEW FLOORWALL/CEILING PENETRATIONS REQUIRED FOR MECHANICAL PIPING INSTALLATION SHALL BE CLEANLY BORED AT RIGHT ANGLES. AS NEW PIPING IS INSTALLED, NEW PIPING PENETRATIONS SHALL BE NEATLY CALKED TO FILL VOID. WALL PENETRATIONS SHALL BE FINISHED WITH ESCUTCHEONS.</p> <p>6. ALL NEW PIPING EXPOSED IN OCCUPIED SPACES SHALL HAVE PVC JACKETS INSTALLED OVER THE PIPING INSULATION. ANY PIPING REQUIRED TO BE EXPOSED SHALL BE INSTALLED VERTICALLY OR HORIZONTALLY IN LEAST VISIBLE LOCATION.</p> <p>7. ALL NEW EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED SO AS TO BE EASILY ACCESSIBLE.</p> <p>8. CONTRACTOR SHALL PATCH/REPAIR ALL UNUSED OPENINGS AND MODIFIED FINISH SURFACES. PATCHES SHALL MATCH MATERIALS, FINISH AND TEXTURE OF ADJACENT SURFACES.</p> <p>9. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.</p> <p>10. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED FOR ELECTRICAL, FIRE PROTECTION, PLUMBING, MECHANICAL AND BACKFLOW PREVENTION INSTALLATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.</p> <p>11. CONTRACTOR SHALL NOT PROCURE OR FABRICATE ANY PIPING, DUCTWORK OR OTHER EQUIPMENT WITHOUT FIRST VERIFYING ALL DIMENSIONS AND CONDITIONS WHETHER CURRENTLY EXISTING OR NOT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, INCLUDING ANY REQUIRED REWORK.</p> <p>12. MAINTAIN ALL MANUFACTURER RECOMMENDED EQUIPMENT SERVICE AND SAFETY CLEARANCES. DO NOT LOCATE ANY EQUIPMENT OR RUN MATERIALS ABOVE ANY ELECTRICAL PANELS OR SWITCHGEAR. MAINTAIN ALL NPANEC CODE REQUIRED CLEARANCES.</p> <p>13. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, SCHEDULING AND SEQUENCING OF THEIR WORK WITH ALL OTHER TRADES. PROVIDE OFFSETS, EASEMENTS, OR RELOCATE TO AVOID CONFLICTS WITH WORK OF OTHER TRADES. FURNISH SUFFICIENT RESOURCES TO MEET ALL PROJECT MILESTONES AND DEADLINES.</p> <p>14. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WATERTIGHT AND WEATHER-PROOF INTEGRITY OF ROOFS, WALLS AND FLOORS DURING CONSTRUCTION. EACH TRADE SHALL LOCATE/DIMENSION/COORDINATE THEIR ROOF, FLOOR AND WALL OPENINGS WITH THE CONSTRUCTION MANAGER.</p> <p>15. PROTECT NEW WORK FROM DAMAGE OR CONTAMINATION. PROVIDE TEMPORARY PROTECTIVE CAPPING OR TAPED POLYETHYLENE ENCLOSURES OVER OPEN DUCTWORK AND PIPING ENDS AND EQUIPMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING MECHANICAL SYSTEMS PRIOR TO PLACING THEM IN SERVICE.</p> <p>16. IN A NEAT AND WORKMANLIKE MANNER. PATCH ANY REMAINING OPENINGS AND FILL EXCESSIVE GAPS; REWORK AND REFINISH TO MATCH ADJACENT STRUCTURES; FLASH AND SEAL ALL MECHANICAL AND ELECTRICAL PENETRATIONS THRU WALLS, CEILING, AND FLOORS WITH METAL FRAMEWORK OR ESCUTCHEONS. ALL OPENINGS SHALL BE PROPERLY SEALED SO AS TO MEET FIRE RATING NEEDS.</p> <p>17. ALL BRANCH PIPING TO EQUIPMENT TO BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED.</p> <p>18. EXTEND ALL DRAIN CONNECTIONS FOR MECHANICAL EQUIPMENT TO NEAREST FLOOR DRAIN, MOP SINK, ETC. PROVIDE P-TRAP AS REQUIRED BY MANUFACTURER. DRAIN PIPING TO BE SIZED PER CODE OR LINE SIZE, WHICHEVER IS LARGER.</p>	
<p>MECHANICAL DEMOLITION</p> <p>1. THIS DRAWING DIAGRAMMATICALLY REPRESENTS THE LAYOUT OF EXISTING CONDITIONS WITH MAJOR MECHANICAL AND ELECTRICAL COMPONENTS. THEY ARE NOT INTENDED TO SHOW ACCESSORIES OR INCIDENTALS COMMON TO EQUIPMENT INDICATED. THOUGH THESE ITEMS ARE TO BE REMOVED, ACCESSIBILITY TO DEMOLITION ITEMS SHALL NOT BE INFERRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF BUILDING AND EXISTING CONDITIONS, PRIOR TO BID SUBMISSION.</p> <p>2. DEMOLITION SHALL INCLUDE ALL HANGERS, FITTINGS, DAMPERS, VALVES, ETC.</p> <p>3. REPAIR ANY INSULATION DAMAGED DURING REMOVAL. REPAIR WORK TO BE SAME AS NEW.</p> <p>4. COORDINATE WALL AND FLOOR PATCHING REQUIREMENTS. PATCHWORK SHALL MATCH MATERIALS, FINISH AND TEXTURE OF ADJACENT SURFACES. REFERENCE ARCHITECTURAL PLANS.</p> <p>5. CONTRACTOR SHALL PATCH/REPAIR ALL UNUSED OPENINGS AND MODIFIED FINISH SURFACES. PATCHES SHALL MATCH MATERIALS, FINISH AND TEXTURE OF ADJACENT SURFACES.</p> <p>6. CONTRACTOR SHALL HAVE FIRST SALVAGE RIGHTS TO ALL REMOVED EQUIPMENT AND MATERIALS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER AND TIMELY DISPOSAL OF ALL CONSTRUCTION DEBRIS INCLUDING BUT NOT LIMITED TO EQUIPMENT AND MATERIALS NOT CLAIMED BY OWNER TO AN EPA APPROVED, ENVIRONMENTALLY RESPONSIBLE, RECYCLE FACILITY OR LANDFILL.</p> <p>7. IT IS ESSENTIAL TO MINIMIZE DISRUPTIONS. COORDINATE ALL DEMOLITION WITH OWNER OR CONSTRUCTION MANAGER BEFORE SHUTTING DOWN ANY UTILITY OR SIMILAR SYSTEM. SHUTDOWNS FOR UTILITIES OR SIMILAR SYSTEMS SHALL BE REQUESTED WELL IN ADVANCE AND PRE-APPROVED BY THE PROPER AUTHORITY(S) HAVING JURISDICTION BEFORE BEGINNING WORK.</p> <p>8. ALL WORK WITHIN THE CONTRACT DOCUMENTS, WHICH INCLUDE THIS DRAWING, SHALL BE COMPLETED IN A SAFE WORKMANLIKE MANNER AND IN ACCORDANCE WITH ALL APPLICABLE STATE AND NATIONAL CODES, REGULATIONS AND ORDINANCES. IF ANY CONFLICTS ARISE BETWEEN THE CONTRACT DOCUMENTS AND THE APPLICABLE CODES, REGULATIONS OR ORDINANCE, THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL WORK CONFORM TO THE STRICTER OF SAID REQUIREMENTS.</p> <p>9. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS AS REQUIRED FOR ELECTRICAL, FIRE PROTECTION, PLUMBING, MECHANICAL AND BACKFLOW PREVENTION INSTALLATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE BOTH A COMPLETE AND COMPLIANT INSTALLATION AS MAY BE DETERMINED BY THE AUTHORITY(S) HAVING JURISDICTION.</p> <p>10. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE WATERTIGHT AND WEATHER-PROOF INTEGRITY OF ROOFS, WALLS AND FLOORS DURING CONSTRUCTION. EACH TRADE SHALL LOCATE/DIMENSION/COORDINATE THEIR ROOF, FLOOR AND WALL OPENINGS WITH THE CONSTRUCTION MANAGER.</p>							

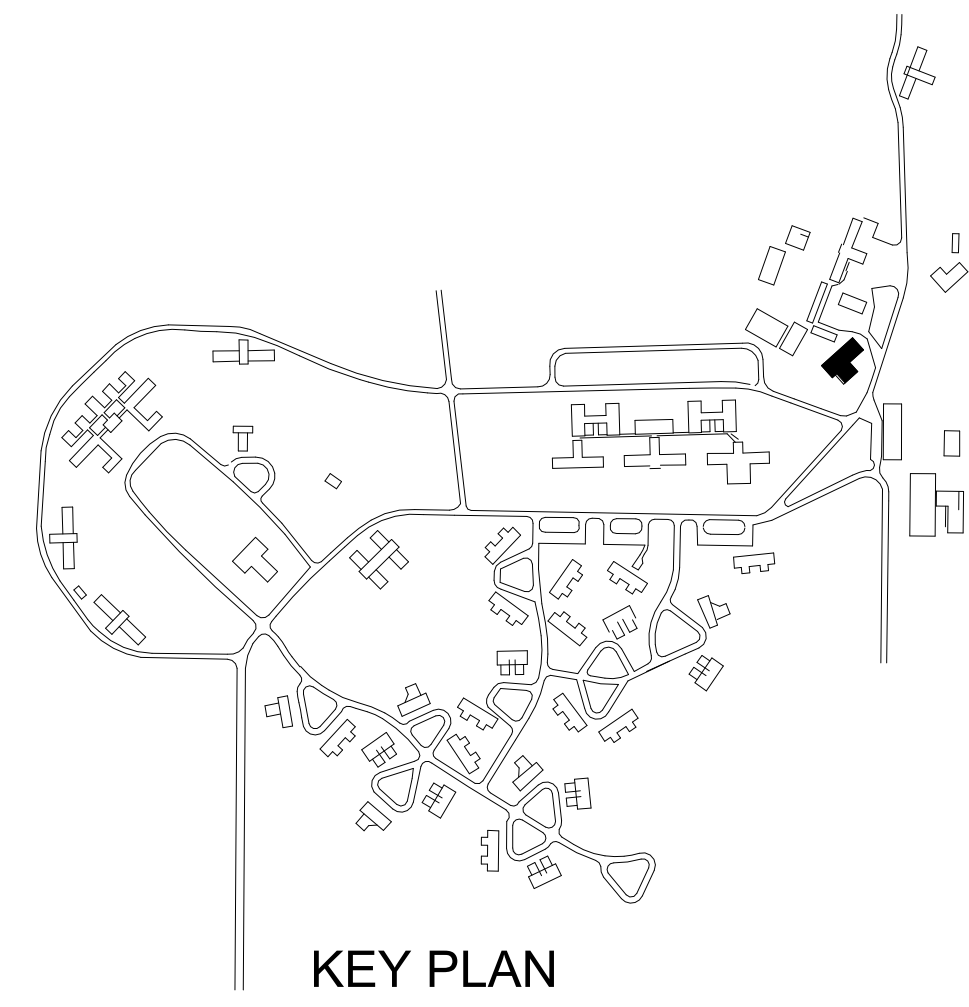
KEYNOTES	
KEY	NOTE
14-P01	INSTALL NEW 2" CW SERVICE AND CONNECT AT EXISTING 2" PIPE. SEE CIVIL FOR NEW INCOMING SERVICE LOCATION.
14-P02	REMOVE EXISTING SLAB AS REQUIRED TO INSTALL PIPES AND REPOUR SLAB ONCE PIPE IS INSTALLED. NEW SLAB SHOULD BE 5" THICK WITH #4 REBAR @18" O.C. EACH WAY. DRILL AND GROUT BARS INTO EXISTING SLAB WITH 6" EMBEDMENT.
14-P03	INSTALL ISOLATION VALVE AT SERVICE ENTRANCE.
14-PD01	REMOVE EXISTING 4" CW PIPE FROM ABOVE OFFICE TO REDUCER. ALL SERVICE BRANCHES AND MAIN PIPING STARTING AT 2" TO REMAIN FOR NEW CONNECTION. EXISTING 4" PIPE IN OFFICE CHASE TO BE CAPPED AND ABANDONED IN PLACE.

DRAWN BY	JOB
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	240000740
FIELD BOOK	



A3 LEVEL 1 DOMESTIC WATER DEMOLITION PLAN
1/8" = 1'-0" 0 12'

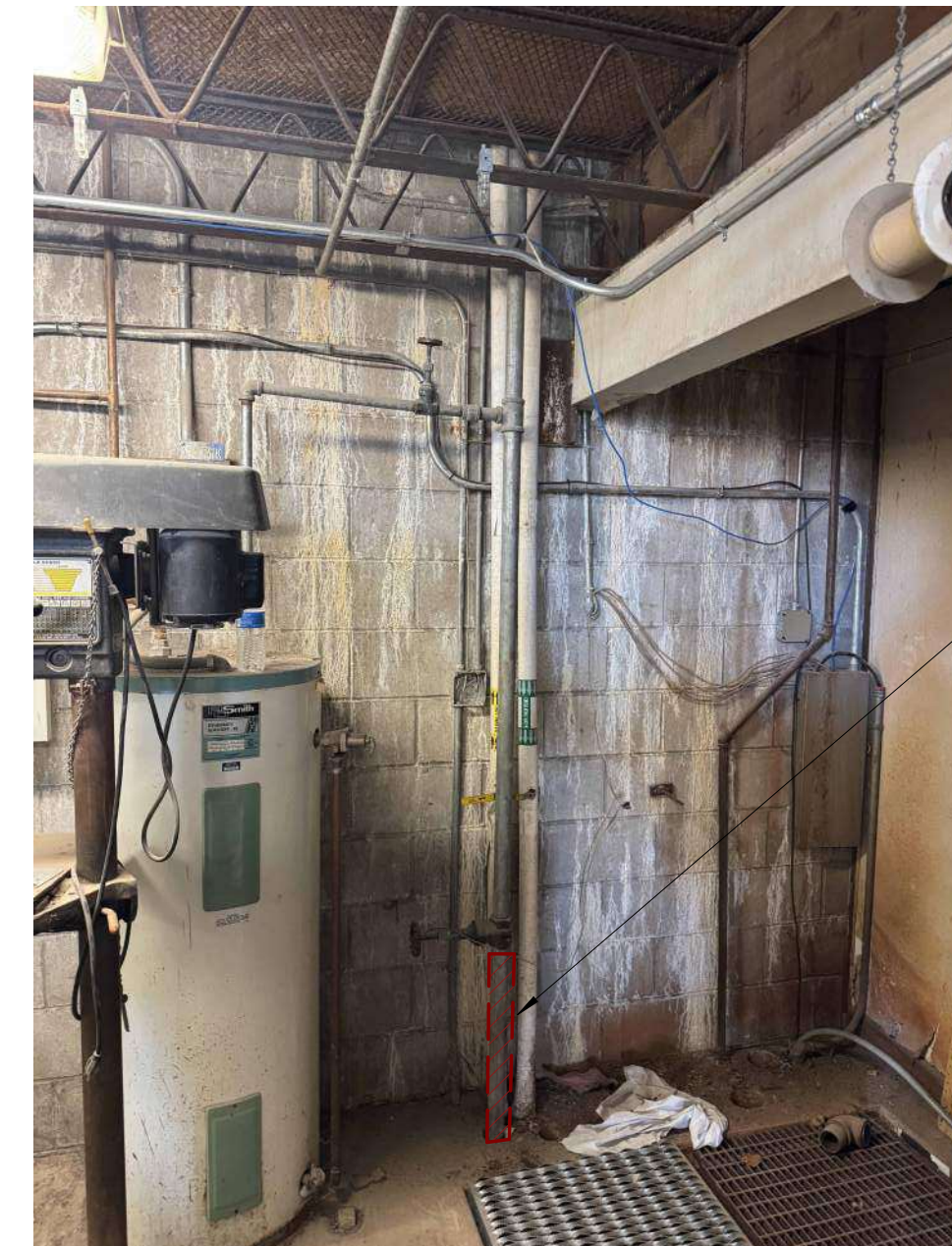
A6 LAUNDRY BUILDING DOMESTIC WATER PIPING
1/8" = 1'-0" 0 12'



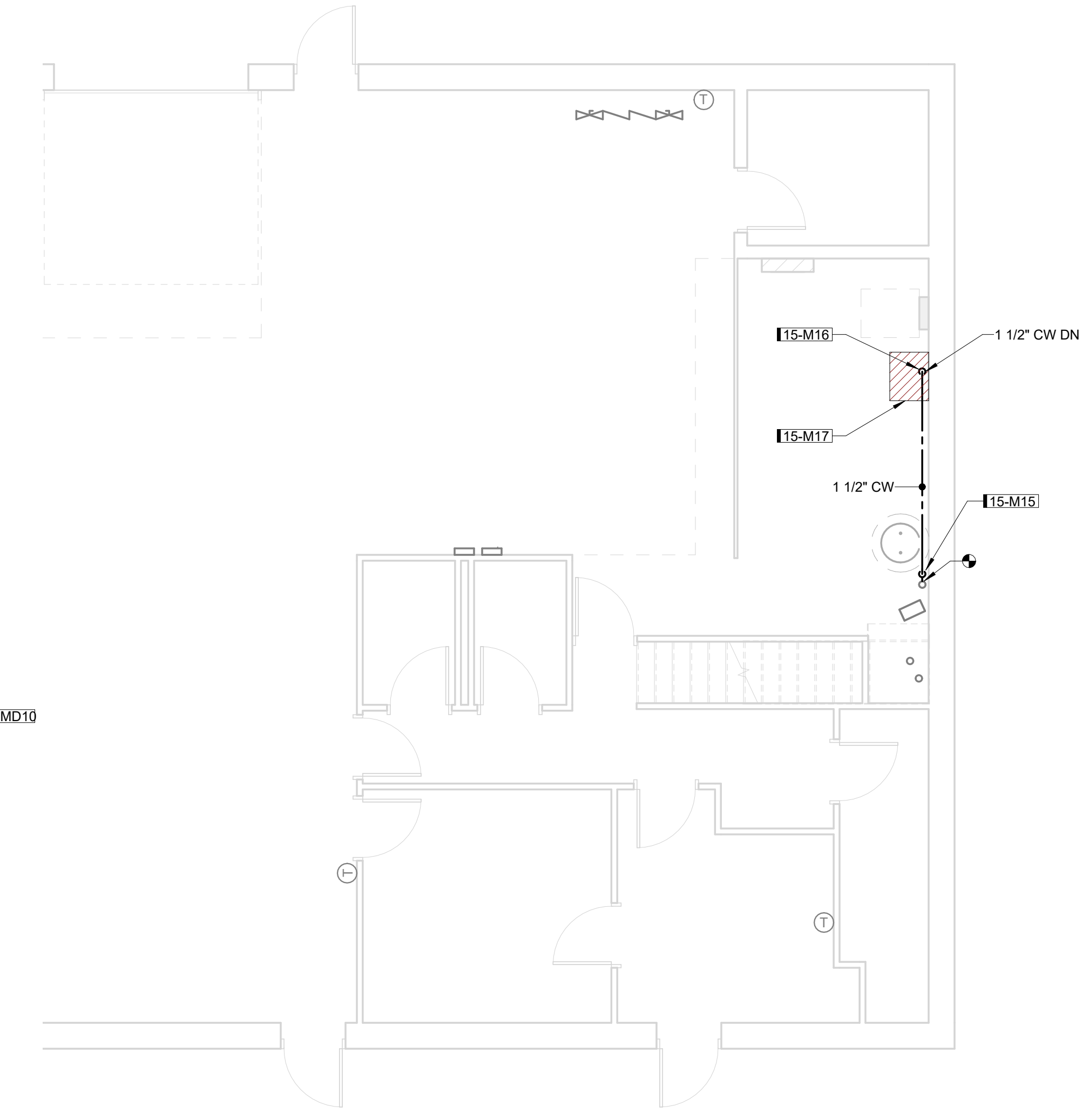
KEY PLAN

Autodesk Revit 2022

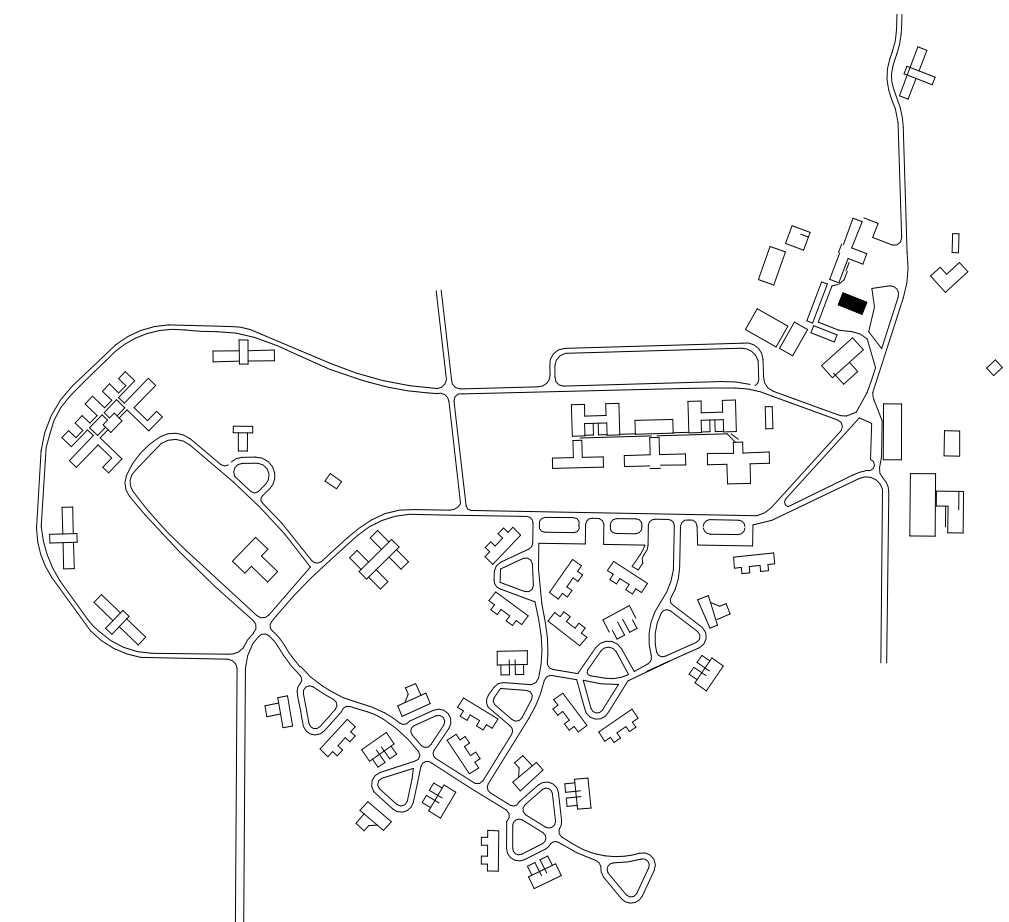
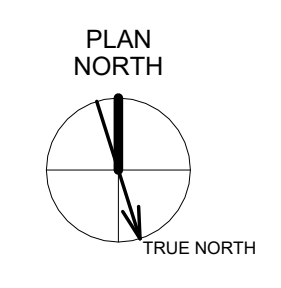
KEYNOTES	
KEY	NOTE
15-M15	ROUTE NEW 1 1/2" CW SERVICE FROM NEW SERVICE ENTRANCE TO EXISTING 1 1/2" CW PIPE. CONNECT TO EXISTING ISOLATION VALVE.
15-M16	APPROXIMATE LOCATION OF NEW CW ENTRANCE 5'-0" BELOW SLAB. COORDINATE EXACT LOCATION AND DEPTH WITH OWNER AND CIVIL CONTRACTOR. INSTALL ISOLATION VALVE AT SERVICE ENTRANCE.
15-M17	REMOVE EXISTING SLAB AS REQUIRED TO INSTALL PIPES AND REPAIR SLAB ONCE PIPE IS INSTALLED. NEW SLAB SHOULD BE 5" THICK WITH #4 REBAR @18" O.C. EACH WAY. DRILL AND GROUT BARS INTO EXISTING SLAB WITH 6" EMBEDMENT.
15-MD10	REMOVE EXISTING 1 1/2" CW SERVICE FROM ISOLATION VALVE BACK TO BELOW SLAB AND CAP IN TUNNEL. PREPARE ISOLATION VALVE FOR CONNECTION TO NEW SERVICE.



E5 WATER SERVICE ENTRANCE DEMO
NOT TO SCALE



F5 FIRST FLOOR PLUMBING PLAN
3/16" = 1'-0" 0' 8"

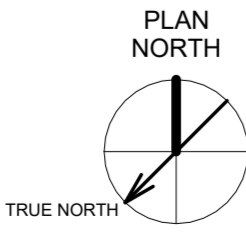
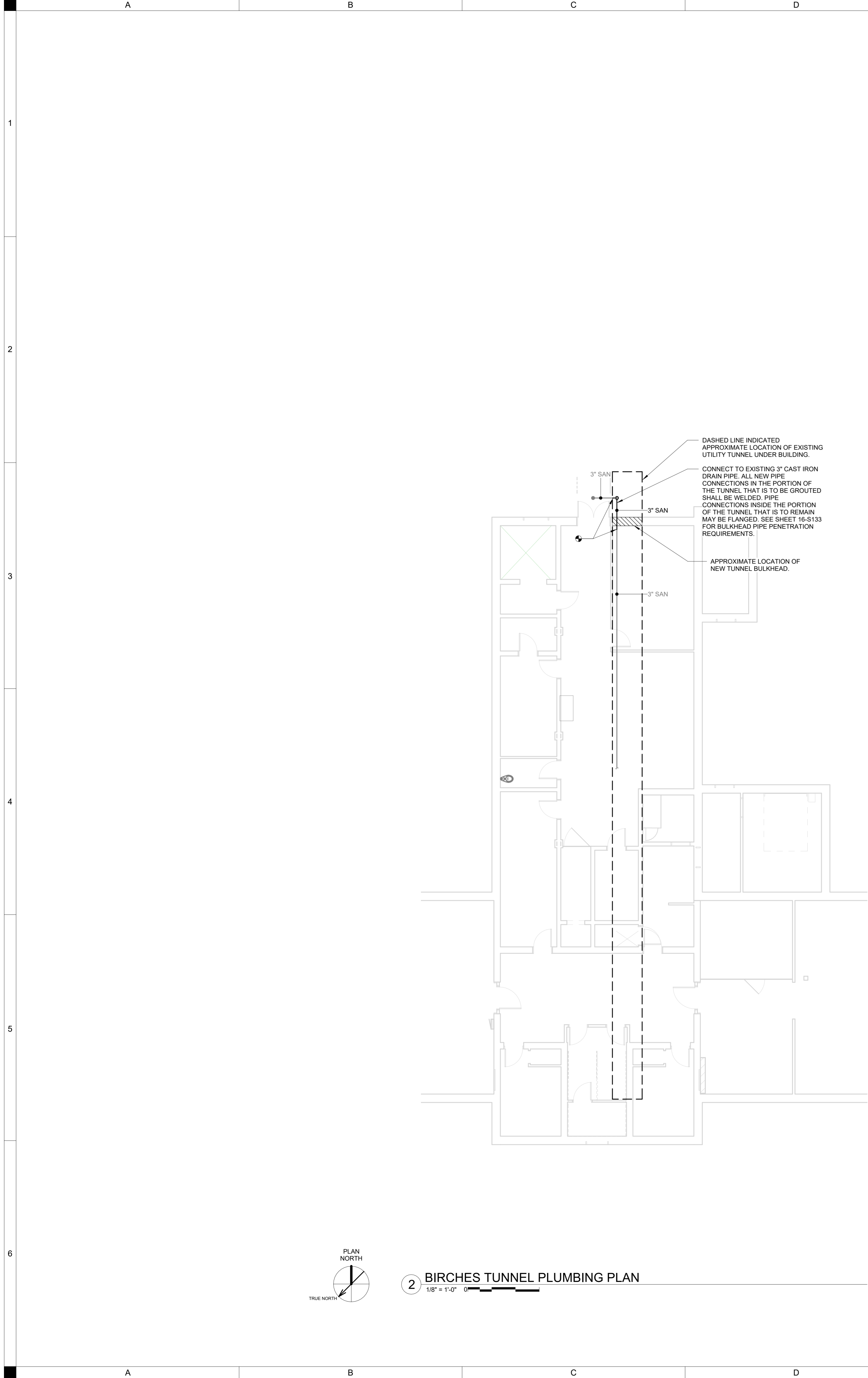


KEY PLAN

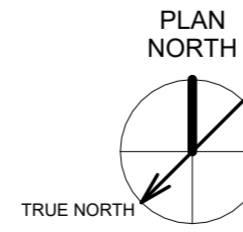
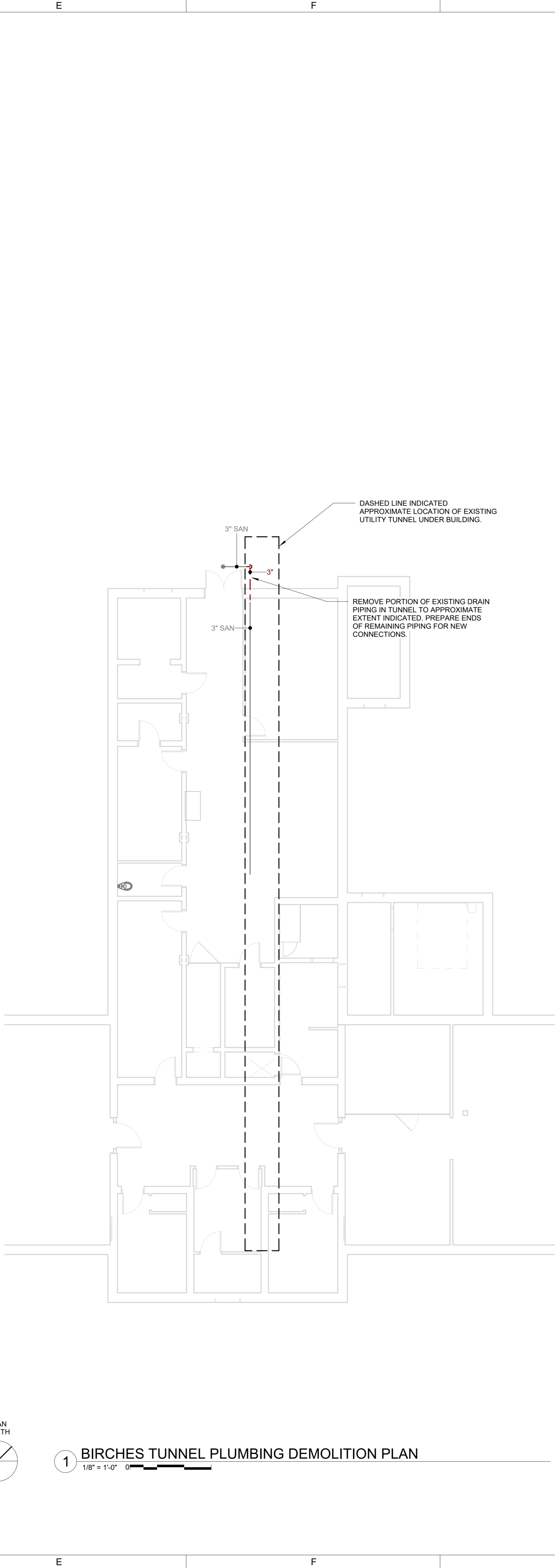
DRAWN BY	JDB
APPROVED BY	JDB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

DISPATCH GARAGE PLUMBING PLANS

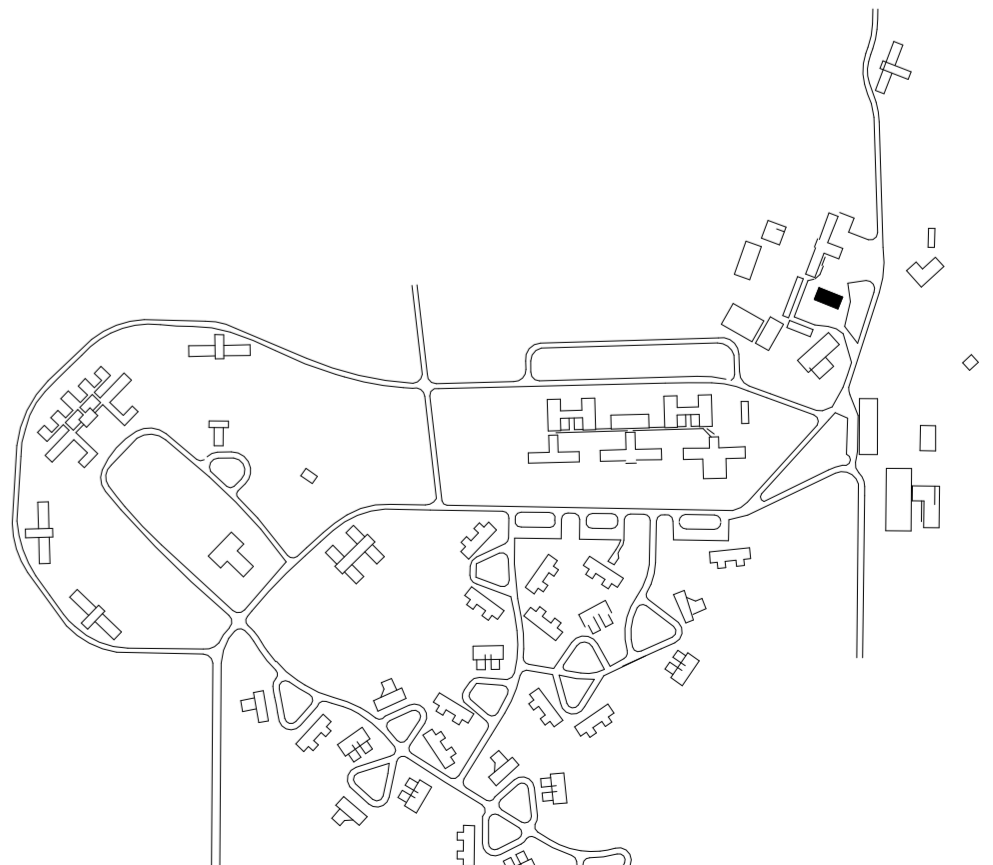
15-P101



2 BIRCHES TUNNEL PLUMBING PLAN
1/8" = 1'-0"



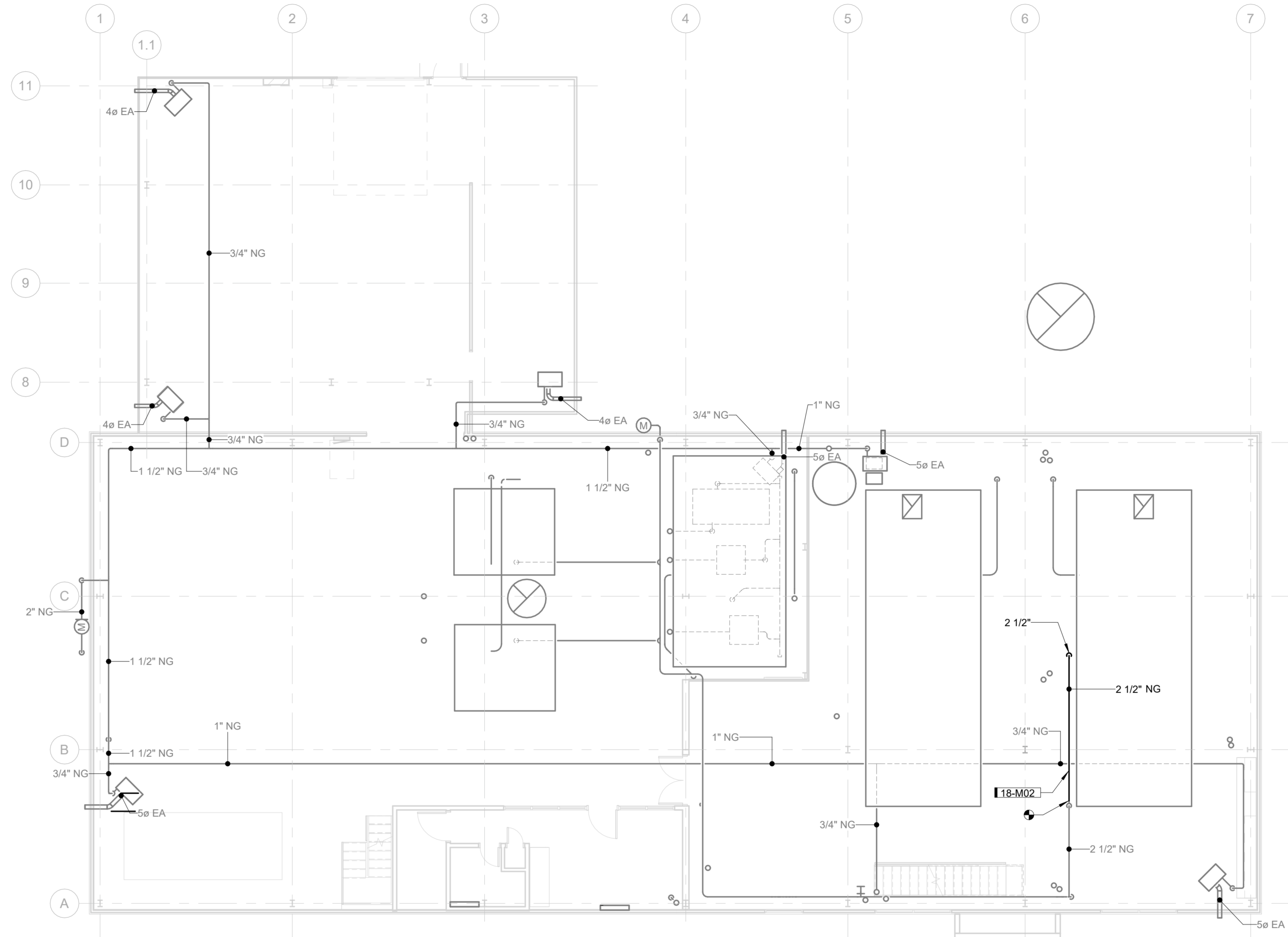
1 BIRCHES TUNNEL PLUMBING DEMOLITION PLAN
1/8" = 1'-0"



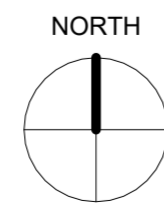
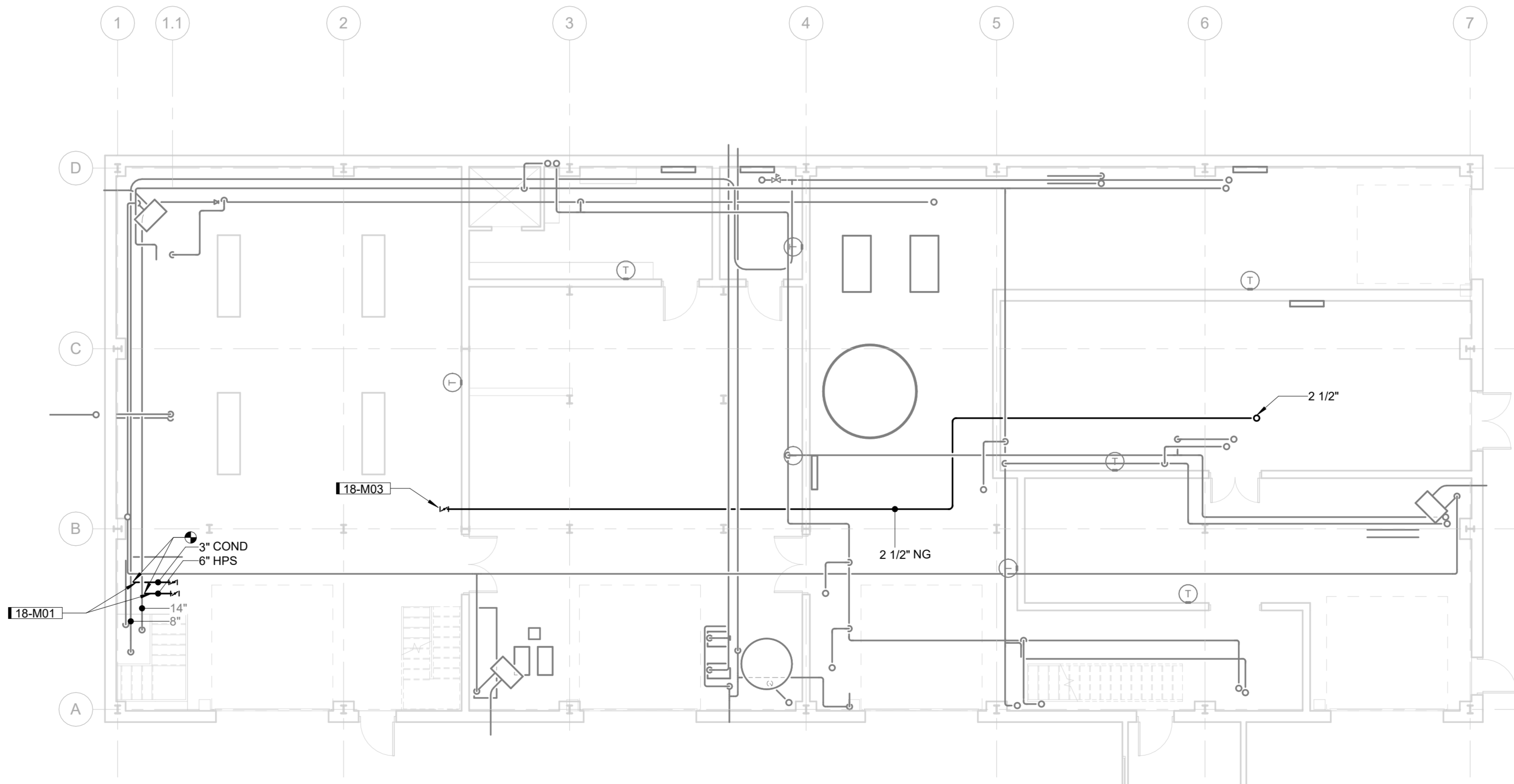
KEY PLAN

BIRCHES TUNNEL PLUMBING PIPING PLAN	
DRAWN BY	JOB
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

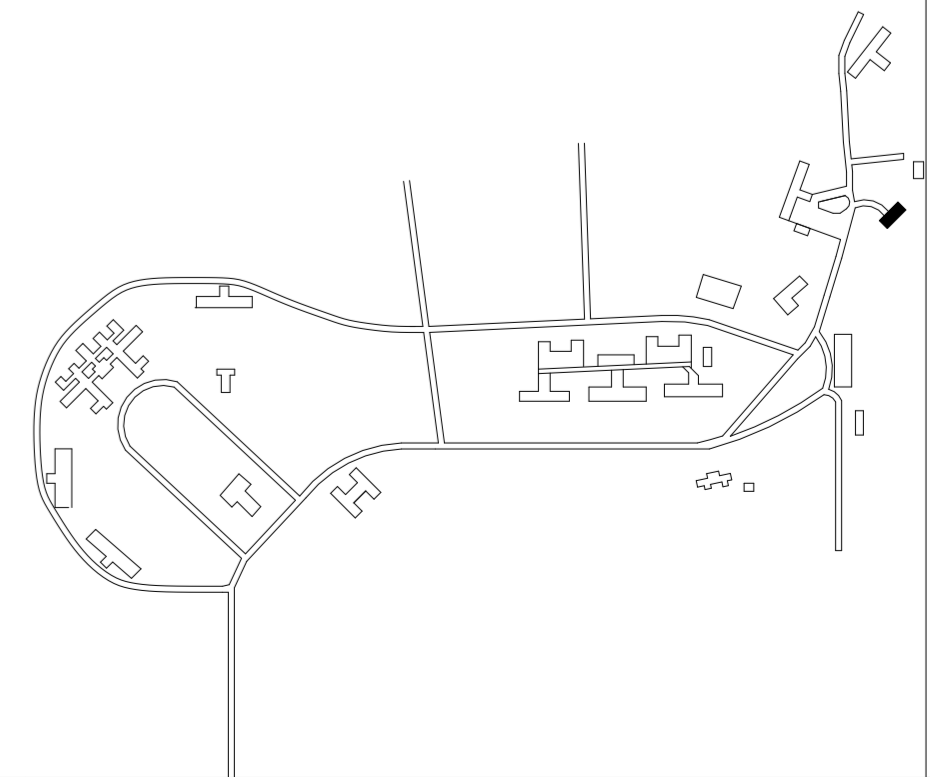
KEYNOTES	
KEY	NOTE
18-M01	INSTALL NEW 6" HPS TAP ON EXISTING 14" HPS PIPE. INSTALL NEW 3" COND TAP ON EXISTING 8" COND PIPE. TERMINATE NEW TAPS WITH BUTTERFLY VALVES AND CAP WITH BLIND FLANGES.
18-M02	CONNECT TO EXISTING NATURAL GAS PIPE FROM OLD BOILER BRANCH. ROUTE NEW 2 1/2" NG PIPE DOWN THROUGH EXISTING STEEL PLATING FLOOR COVER TO BASEMENT LEVEL.
18-M03	ROUTE 2 1/2" NG PIPE THROUGH BASEMENT TO APPROXIMATELY THIS LOCATION AND TERMINATE WITH BUTTERFLY VALVE AND CAP FOR FUTURE CONNECTION.



C4 FIRST FLOOR TEMPORARY PIPING PLAN
1/8" = 1'-0" 0 12



C6 POWERHOUSE BASEMENT TEMPORARY PIPING
1/8" = 1'-0" 0 12



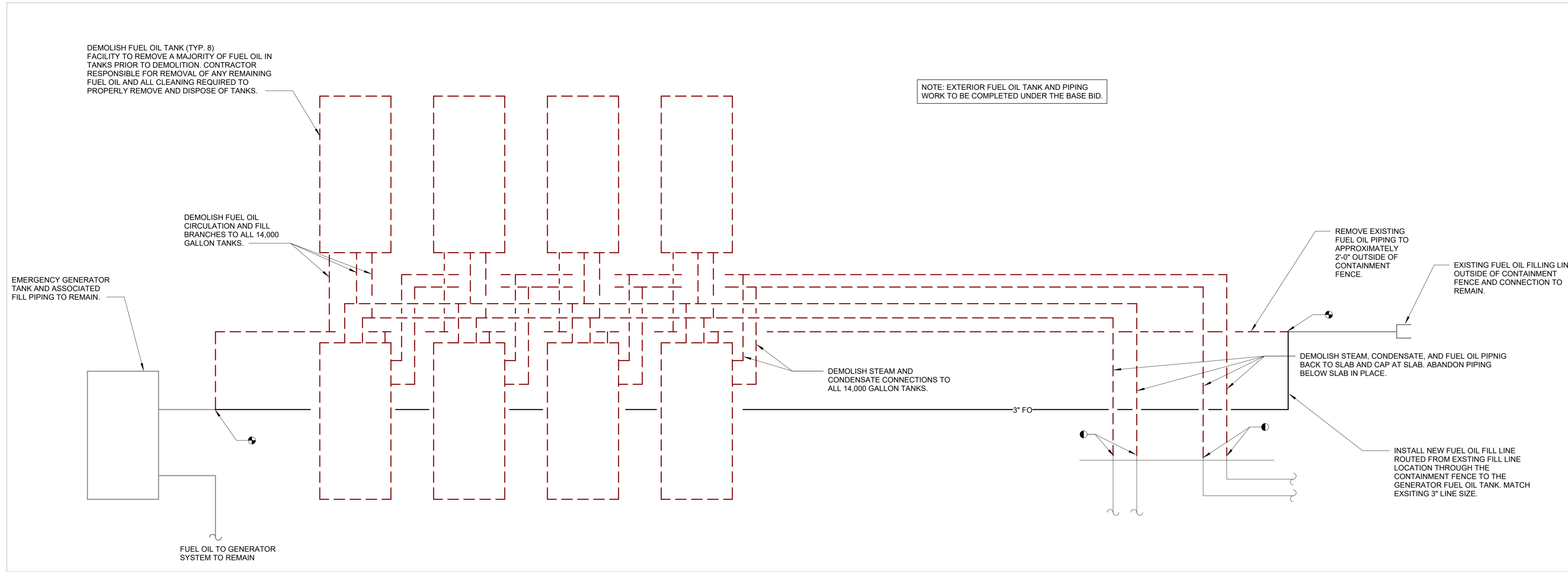
**IAA DAS -HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
100 EAST BROADWAY, SUITE 100
DES MOINES, IA 50319
34 CEDAR ST., WOODWARD, IA 50276

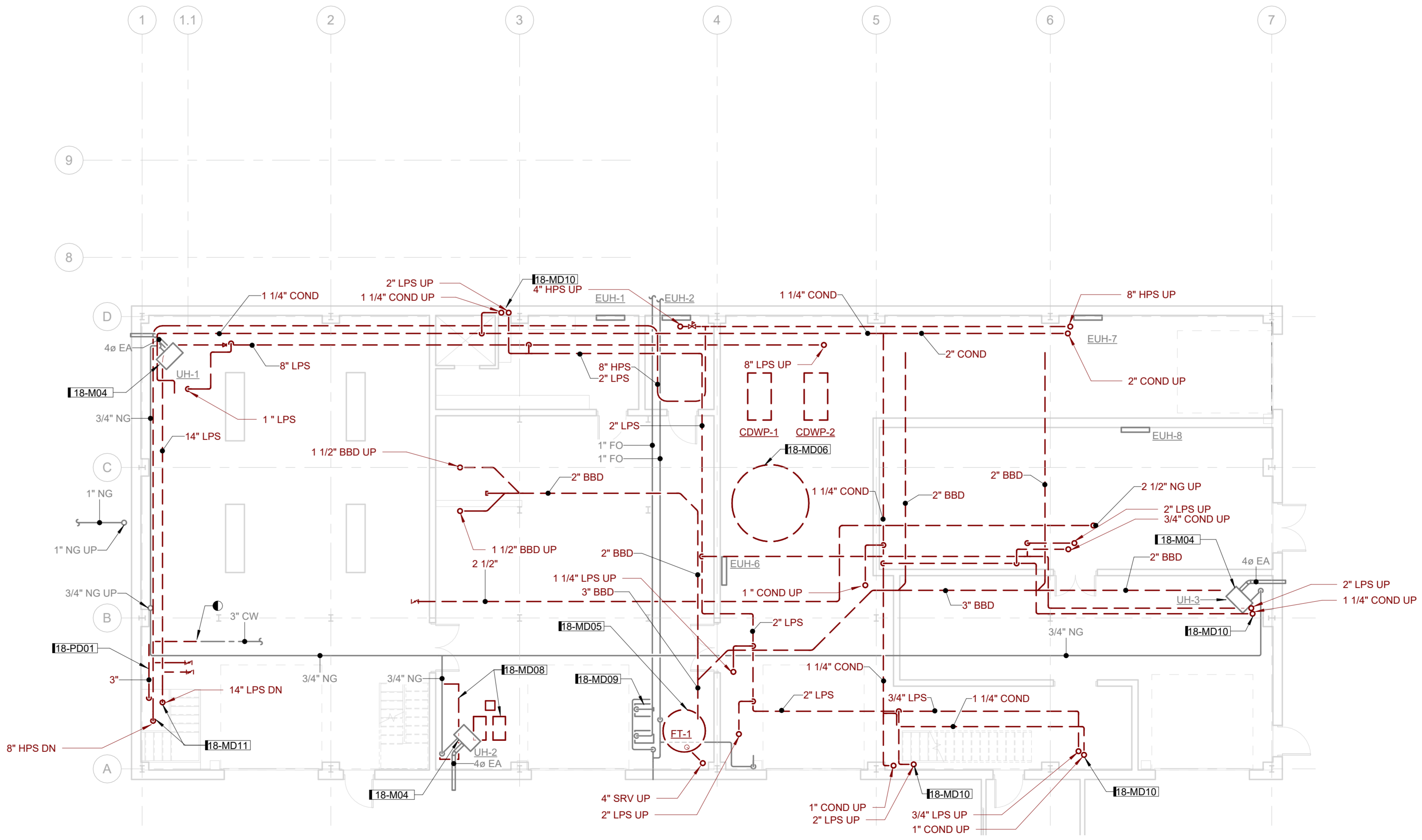
DRAWN BY	JOB
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

**POWERHOUSE
MECHANICAL
TEMPORARY
CONNECTION
PLAN**

18-M002



A3 FUEL OIL SCHEMATIC
NOT TO SCALE



NOTE: DESIGN INTENT IS TO DEMOLISH ALL ABANDONED EQUIPMENT ASSOCIATED WITH THE STEAM SYSTEM INSIDE THE POWERHOUSE INCLUDING STEAM PIPING, CONDENSATE PIPING, FEEDWATER PIPING, BLOWDOWN PIPING, FUEL OIL PIPING, AND CHEMICAL FEED PIPING UNDER BID ALTERNATE #1.

FUEL OIL PIPING AND PUMPS SERVING EXISTING GENERATOR TO REMAIN.

GAS-FIRED UNIT HEATERS AND ASSOCIATED NATURAL GAS SYSTEM TO REMAIN.

C6 BASEMENT MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

KEYNOTES	
KEY	NOTE
18-MD4	EXISTING UNIT HEATER AND ASSOCIATED DUCTING, NATURAL GAS PIPING, CIRCUIT, AND CONTROLS TO REMAIN.
18-MD05	DEMOLISH EXISTING BLOWDOWN SEPARATOR AND ASSOCIATED DRAIN PIPING.
18-MD06	DEMOLISH EXISTING CONDENSATE TANK, CONDENSATE PUMPS, AND ASSOCIATED CONTROLS AND PIPING.
18-MD08	DEMOLISH EXISTING FUEL OIL PUMPS, HEATER, AND FILTER. DEMOLISH ASSOCIATED STEAM AND CONDENSATE PIPING AND ACCESSORIES. DEMOLISH FUEL OIL CROSS-CONNECTION PIPING TO GENERATOR FUEL OIL PIPING SYSTEM AND CAP AT CONNECTION. EXISTING GENERATOR FUEL OIL PIPING SYSTEM TO REMAIN.
18-MD09	EXISTING GENERATOR FUEL OIL PUMPS AND ASSOCIATED PIPING SYSTEM TO REMAIN.
18-MD10	DEMOLISH BRANCH PIPING FROM PREVIOUSLY DEMOLISHED UNIT HEATER.
18-MD11	DEMOLISH STEAM AND CONDENSATE PIPING DOWN INTO TUNNEL. SEE STRUCTURAL PLANS FOR CONTINUATION OF PIPING DEMOLITION.
18-PD01	DEMOLISH EXISTING DOMESTIC WATER PIPING FROM APPROXIMATE POINT INDICATED BACK TO TUNNEL. SEE STRUCTURAL DRAWINGS FOR CONTINUATION OF PIPE DEMOLITION. EXISTING CW PIPING SERVING POWERHOUSE TO REMAIN FOR NEW CONNECTION.

**I/A DAS -HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

**POWERHOUSE
BASEMENT
MECHANICAL
DEMOLITION
PLAN**

DRAWN BY	AZN
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

18-MD001

SHIVE-HATTERY
ARCHITECTURE+ENGINEERING
4125 WEST TOWN PKWY, SUITE 100
WEST DES MOINES, IA 50266
515.223.8104 | SHIVE-HATTERY.COM

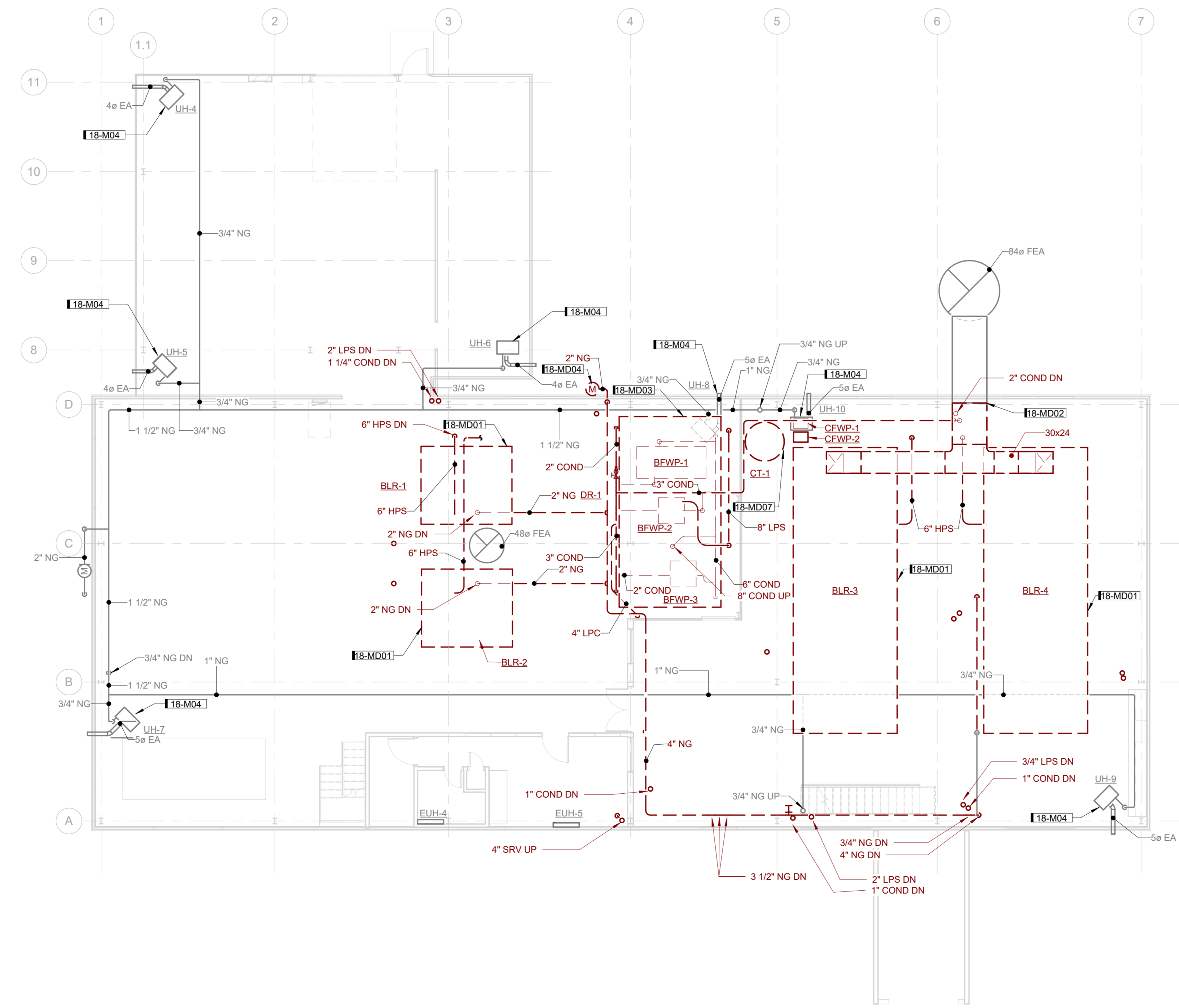
IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
OFFICE OF CONTRACT ADMINISTRATION
34 CEDAR ST., WOODWARD, IA 50276

KEYNOTES	
KEY	NOTE
18-MD4	EXISTING UNIT HEATER AND ASSOCIATED DUCTING, NATURAL GAS PIPING, CIRCUIT, AND CONTROLS TO REMAIN.
18-MD01	DEMOLISH BOILERS AND ASSOCIATED CONTROLS, NATURAL GAS PIPING, FUEL OIL PIPING, STEAM PIPING, CONDENSATE PIPING, AND ASSOCIATED ACCESSORIES.
18-MD02	DEMOLISH COMBINED BOILER FLUE DUCTING FROM BOILERS TO WALL FACE. CAP FLUE AT WALL WITH INSULATED DUCT CAP AND SEAL WEATHERTIGHT. EXTERIOR FLUE AND TOWER TO REMAIN.
18-MD03	DEMOLISH EXISTING DEAERATOR TANK, FEEDWATER PUMPS, AND ASSOCIATED CONTROLS AND PIPING.
18-MD04	DEMOLISH NATURAL GAS PIPING AND ASSOCIATED METER. CAP AND ABANDON SERVICE PIPE 1'-0" ABOVE GRADE.
18-MD07	DEMOLISH EXISTING CHEMICAL FEED WATER TANK AND ASSOCIATED CHEMICAL FEED PUMPS AND PIPING.

NOTE: DESIGN INTENT IS TO DEMOLISH ALL ABANDONED EQUIPMENT ASSOCIATED WITH THE STEAM SYSTEM INSIDE THE POWERHOUSE INCLUDING STEAM PIPING, CONDENSATE PIPING, FEEDWATER PIPING, BLOWDOWN PIPING, FUEL OIL PIPING, AND CHEMICAL FEED PIPING UNDER BID ALTERNATE #1.

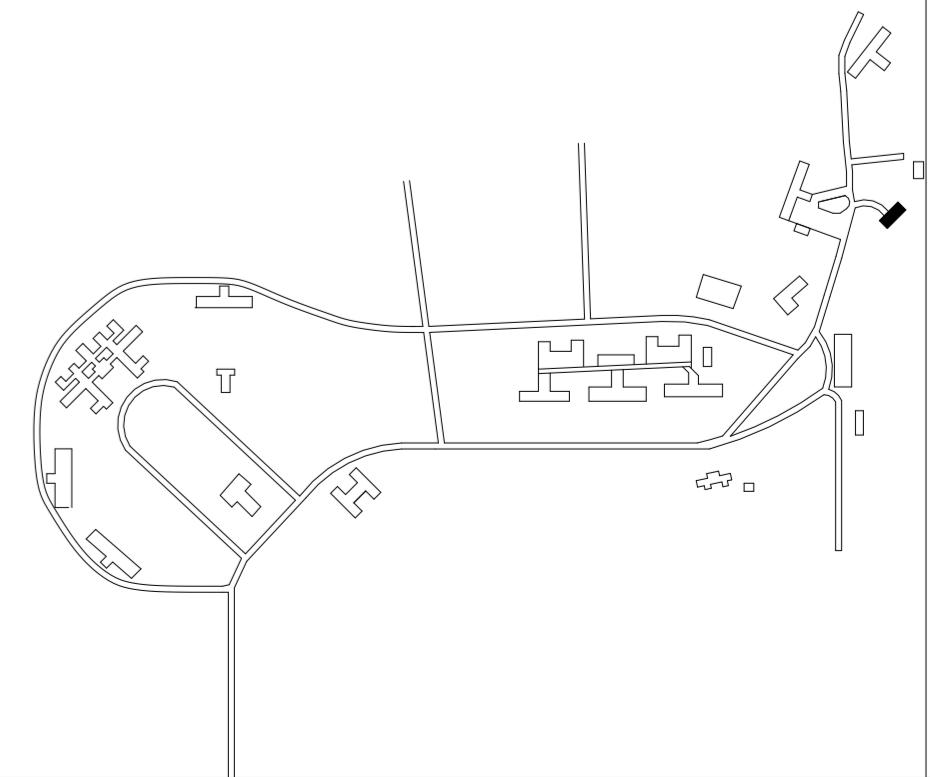
FUEL OIL PIPING AND PUMPS SERVING EXISTING GENERATOR TO REMAIN.

GAS-FIRED UNIT HEATERS AND ASSOCIATED NATURAL GAS SYSTEM TO REMAIN.



NORTH

B6 FIRST FLOOR MECHANICAL DEMOLITION PLAN
 1/8" = 1'-0" 0 12



**I/A DAS -HHS WRC CAMPUS UTILITY DECENTRALIZATION
 PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

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FIELD BOOK	

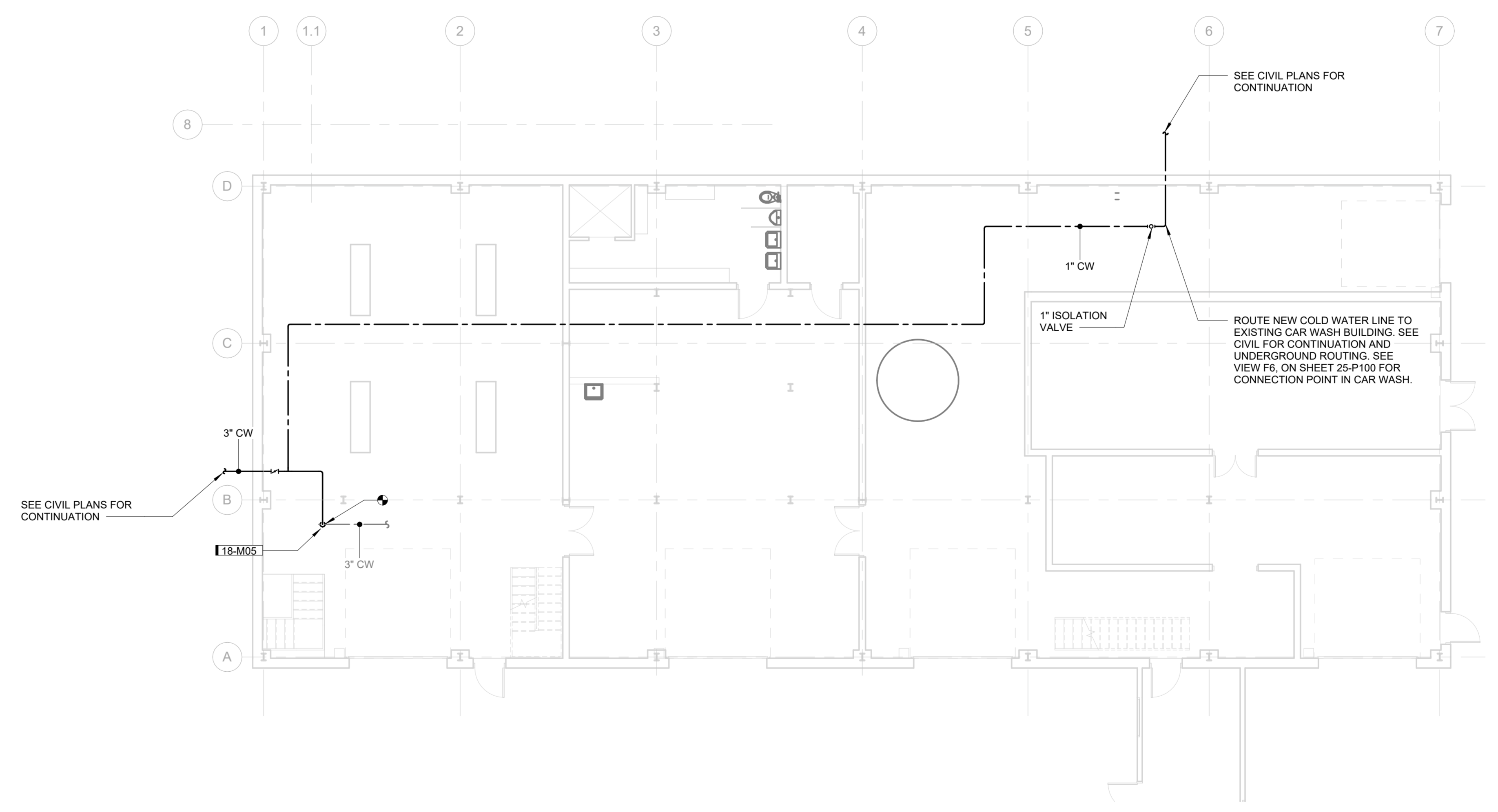
**POWERHOUSE
 FIRST FLOOR
 MECHANICAL
 DEMOLITION
 PLAN**

18-MD002

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
 100 UNIVERSITY CENTER BUILDING, SUITE 3073
 34 CEDAR ST., WOODWARD, IA 50276

SHIVE-HATTERY
 ARCHITECTURE+ENGINEERING
 4125 WESTOWN PKWY, SUITE 100
 WEST DES MOINES, IA 52866
 319.223.8104 | SHIVE-HATTERY.COM

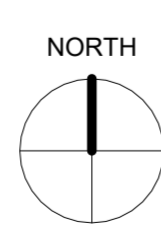
KEYNOTES	
KEY	NOTE
18-M05	CONNECT NEW 3" CW TO EXISTING POWERHOUSE DOMESTIC WATER SERVICE.



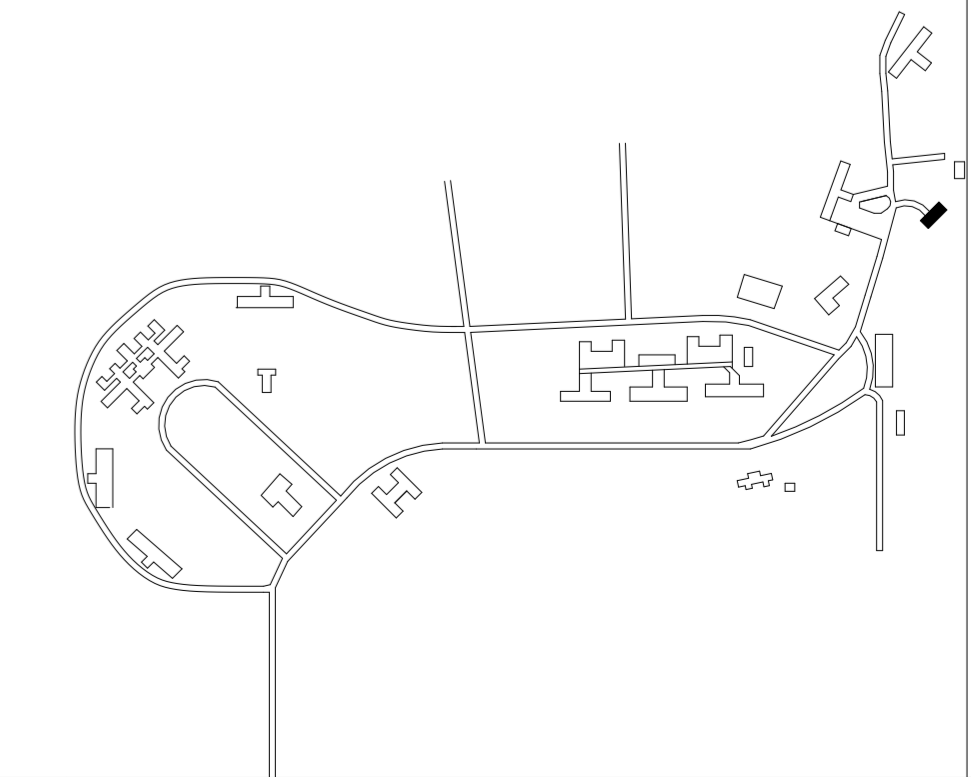
SEE CIVIL PLANS FOR CONTINUATION

SEE CIVIL PLANS FOR CONTINUATION

ROUTE NEW COLD WATER LINE TO EXISTING GAR WASH BUILDING. SEE CIVIL FOR CONTINUATION AND UNDERGROUND ROUTING. SEE VIEW FS. ON SHEET 25-P100 FOR CONNECTION POINT IN GAR WASH.



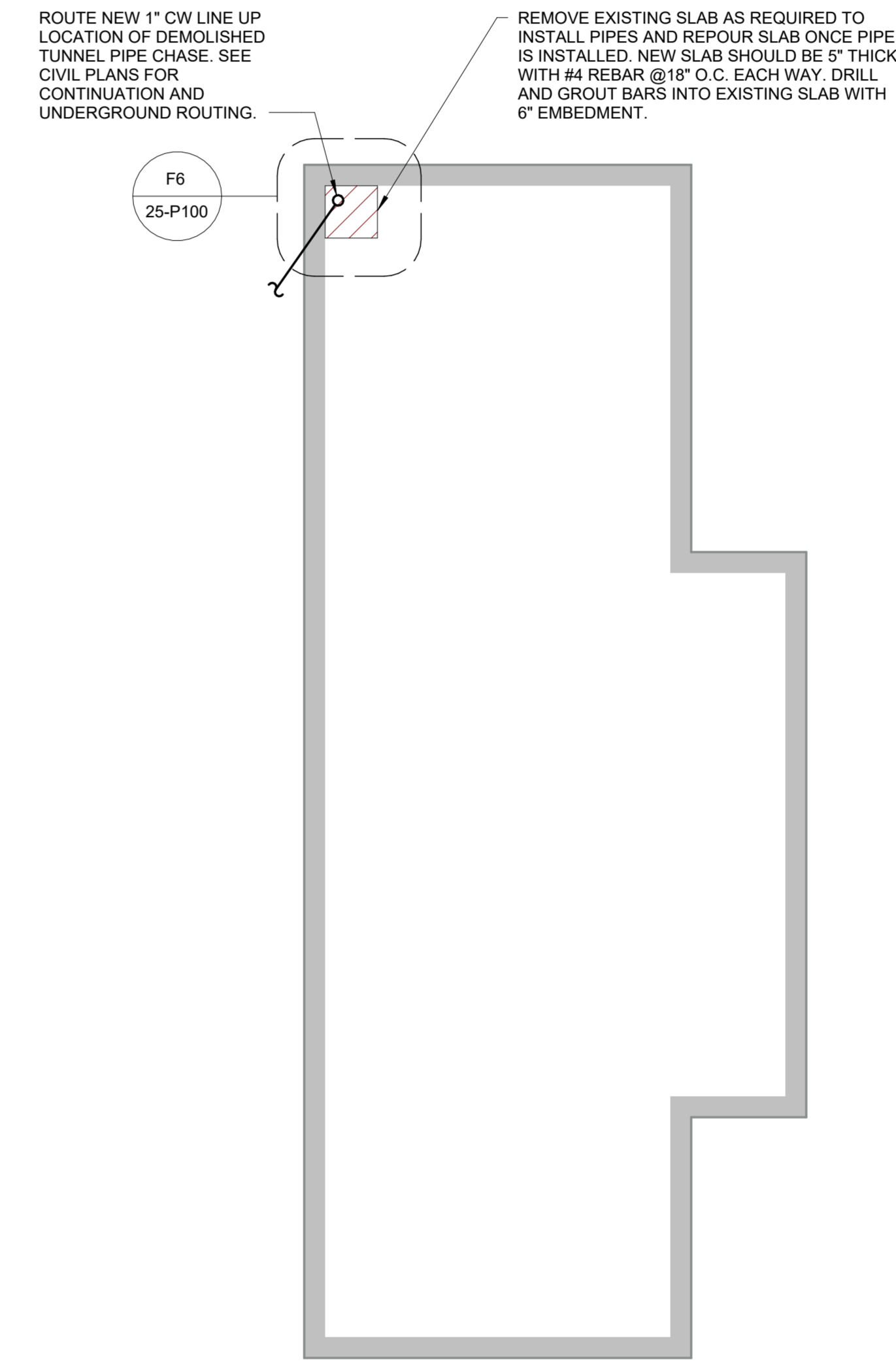
C6 POWERHOUSE GROUND LEVEL PLUMBING PLAN
1/8" = 1'-0"



DRAWN BY	JOB
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2025
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FIELD BOOK	

**POWERHOUSE
PLUMBING PLANS**

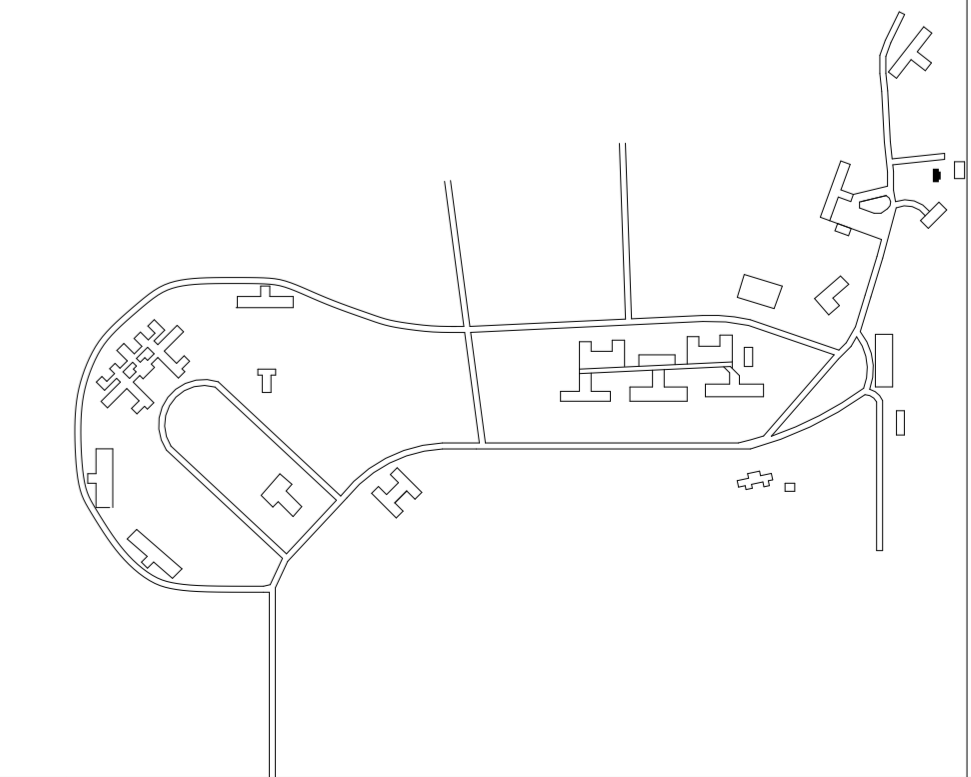
18-P100



F4 CAR WASH PLUMBING PLAN
NOT TO SCALE



F6 CAR WASH WATER CONNECTION
NOT TO SCALE



**IA DAS -HHS WRC CAMPUS UTILITY DECENTRALIZATION
PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
1000 UNIVERSITY CENTER BUILDING, SUITE 2073
37 CEDAR ST., WOODWARD, IA 50276

DRAWN BY	JOB
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/21/2025
PROJECT NUMBER	2240007040
FIELD BOOK	

**CAR WASH
PLUMBING PLANS**

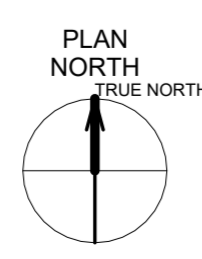
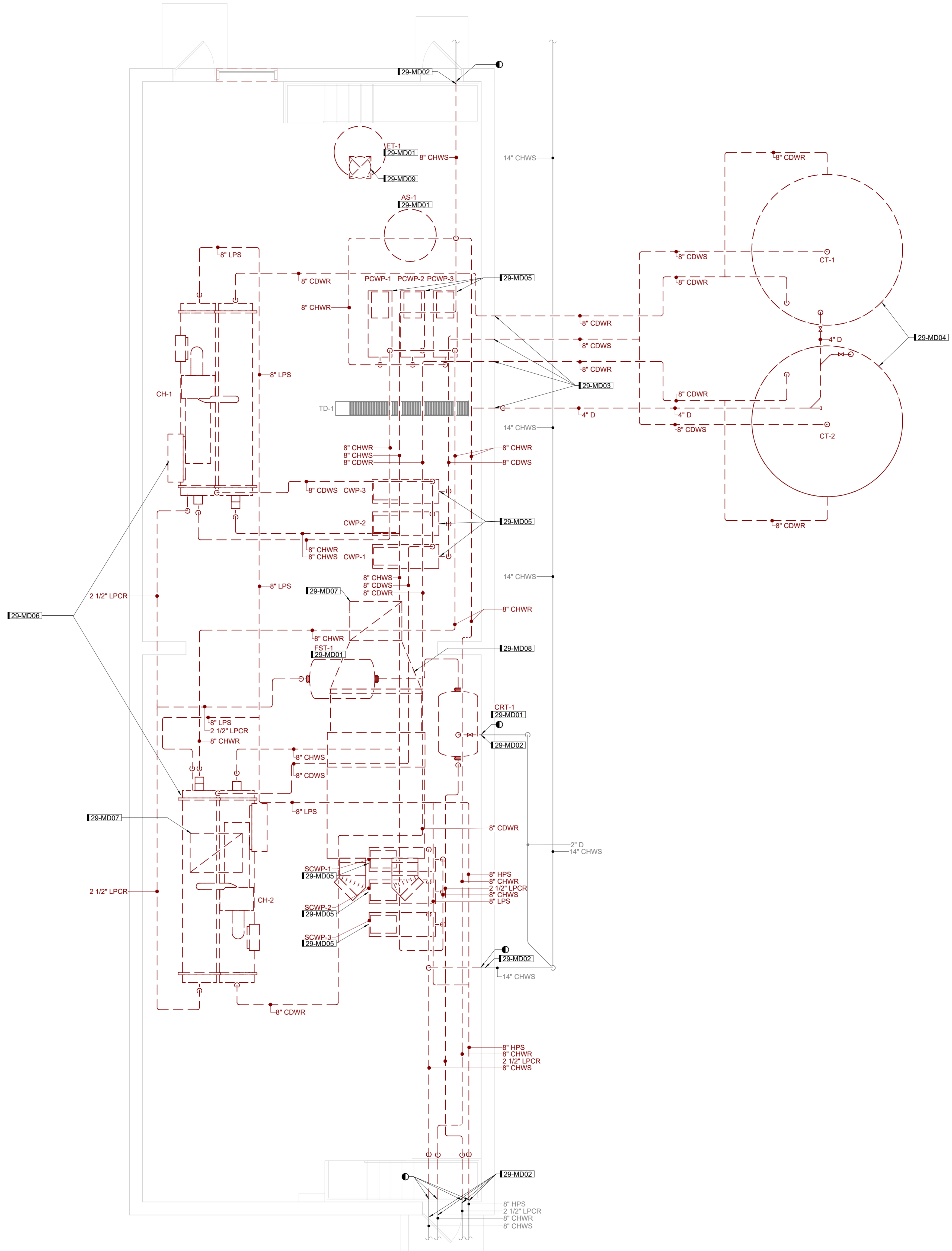
DRAWN BY	GEP
APPROVED BY	JOB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

CHILLER BUILDING MECHANICAL DEMOLITION PLAN

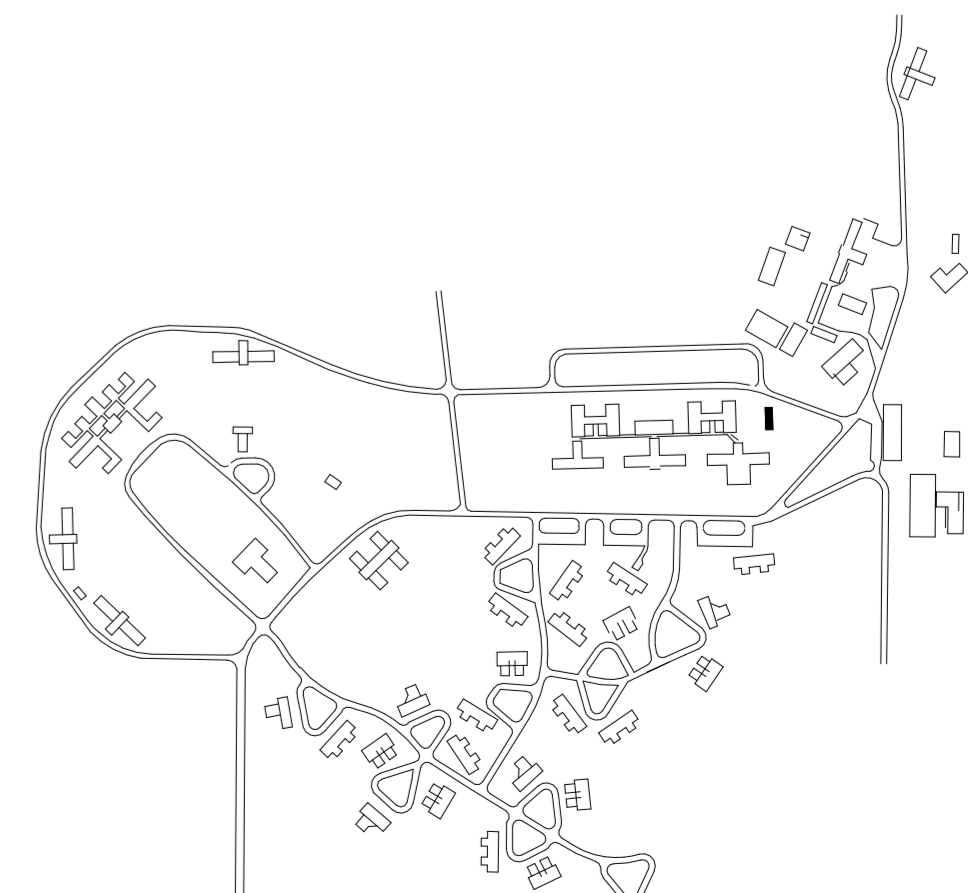
29-M001

KEYNOTES	
KEY	NOTE
29-MD01	DEMOLISH AND CAP ALL EQUIPMENT AND ASSOCIATED PIPING BACK TO MAIN (TYP.)
29-MD02	DEMOLISH PIPING BACK TO WALL PENETRATION AND CAP.
29-MD03	INFILL WALL PENETRATION FROM DEMOLISHED PIPE AND SEAL OPENING WEATHERTIGHT.
29-MD04	DEMOLISH EXISTING COOLING TOWER AND ASSOCIATED PIPING, CONTROLS, AND SUPPORT STRUCTURE. COORDINATE DEMOLITION WITH ELECTRICAL CONTRACTOR.
29-MD05	DEMOLISH EXISTING PUMPS AND ASSOCIATED CONTROLS, AND ACCESSORIES. COORDINATE DEMOLITION WITH ELECTRICAL CONTRACTOR.
29-MD06	REMOVE EXISTING CHILLER AND ASSOCIATED CONTROLS, AND ACCESSORIES. COORDINATE DEMOLITION WITH ELECTRICAL CONTRACTOR. CHILLERS ARE NOMINAL 500 TON TRANE BASD600 ABSORPTION CHILLERS, INSTALLED IN APPROXIMATELY 2006 BASED ON EXISTING SUBMITTAL DATA.
29-MD07	REMOVE EXISTING GRAVITY HOOD ON ROOF. CAP CURB WITH WEATHER-TIGHT INSULATED CURB CAP.
29-MD08	REMOVE EXISTING HEATER AND ASSOCIATED STEAM AND CONDENSATE PIPING.
29-MD09	REMOVE EXHAUST FAN ON ROOF. CAP CURB WITH WEATHER-TIGHT INSULATED CURB CAP.

ALL DEMOLITION WORK IN THE CHILLER PLANT SHALL BE PERFORMED UNDER ALTERNATE #2



C6 CHILLER BUILDING MECHANICAL DEMO PLAN
1/4" = 1'-0"



KEY PLAN

ELECTRICAL SYMBOL LEGEND

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
		SURFACE LIGHT (TYPE DENOTED)	18"		SURFACE RACEWAY (TYPE DENOTED)			MANUAL PULL STATION (46" ABOVE FLOOR) K = KEY OPERATED INSTITUTIONAL PULL STATION			AUDIO NOTIFICATION DEVICE - CEILING MOUNTED
		RECESSED LIGHT (TYPE DENOTED)			CLOCK (TYPE DENOTED)			AUDIO NOTIFICATION DEVICE - CEILING MOUNTED			VISUAL NOTIFICATION DEVICE - WALL MOUNTED
PER SCHED		WALL MOUNTED LIGHT (TYPE DENOTED)			POWER POLE (OPEN OFFICE STYLE)			AUDIO VISUAL NOTIFICATION DEVICE - CEILING MOUNTED			VISUAL NOTIFICATION DEVICE - WALL MOUNTED
PER SCHED		WALL MOUNTED FLOOD LIGHT (TYPE DENOTED)			ELECTRICAL CONNECTION (SEE SCHEDULE)			AUDIO VISUAL NOTIFICATION DEVICE - CEILING MOUNTED			VISUAL NOTIFICATION DEVICE - WALL MOUNTED
		SURFACE LIGHT (TYPE DENOTED)	AS NOTED		JUNCTION BOX			AUDIO VISUAL NOTIFICATION DEVICE - CEILING MOUNTED			VISUAL NOTIFICATION DEVICE - WALL MOUNTED
		SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)	72****		CIRCUIT BREAKER PANEL			AUDIO VISUAL NOTIFICATION DEVICE - WALL MOUNTED			FIRE ALARM CONTROL PANEL
		RECESSED LIGHT (TYPE DENOTED)	72****		POWER OR DISTRIBUTION PANEL			FIRE ALARM CONTROL PANEL			FIRE ALARM REMOTE ANNUCIATOR
PER SCHED		SITE POLE MOUNTED LIGHT (TYPE DENOTED)	72****		SPECIAL CABINET (TYPE DENOTED)			SMOKE DETECTOR (TYPE DENOTED)			HEAT DETECTOR (TYPE AND TEMP DENOTED)
PER SCHED		SITE BOLLARD LIGHT (TYPE DENOTED)			TRANSFORMER (TYPE DENOTED)			LINEAR HEAT DETECTOR			DOOR HOLDER
AS NOTED		TRACK AND TRACK LIGHT (TYPE DENOTED)			GENERATOR (KVA DENOTED)			NURSE CALL SINGLE PATIENT STATION			DOOR CLOSER/HOLD OPEN
96"		EMERGENCY BATTER LIGHT (TYPE DENOTED)			MOTOR (SEE SCHEDULE)			NURSE CALL STAFF STATION			SMOKE DAMPER RELEASE
		EXIT SIGN (TYPE DENOTED)			MOTORIZED DAMPER			STAFF ASSIST			FIRE ALARM SHUT DOWN RELAY
AS NOTED		LIGHT FIXTURE ON EMERGENCY CIRCUIT			SAFETY DISCONNECTION SWITCH			CODE BLUE STATION			
		LIGHTING CONTROL DENOTATION			ADJUSTABLE SPEED DRIVE			NURSE CALL DOME LIGHT			
48"		SINGLE POLE SWITCH			RELAY			NURSE CALL MASTER STATION			
48"		3-WAY SWITCH			PHOTOCELL			NURSE CALL EQUIPMENT CABINET			
48"		4-WAY SWITCH			LIGHT LEVEL SENSOR (TYPE DENOTED)			NURSE CALL ANNUCIATOR PANEL			
48"		KEYPAD SWITCH			CCTV CAMERA (TYPE DENOTED)						
48"		DIMMER SWITCH			OCCUPANCY SENSOR (TYPE DENOTED)						
48"		OCCUPANCY SENSOR SWITCH			INTERCOM STATION						
48"		MOMENTARY CONTACT SWITCH			INTERCOM MASTER						
48"		TIMER SWITCH			KEYPAD NOTE (SEE SCHEDULE)						
48"		FAN SPEED CONTROL			SPRINKLER FLOW SWITCH						
48"		MOTOR HORSEPOWER RATED SWITCH			SPRINKLER VALVE TAMPER SWITCH						
48"		PUSH BUTTON			CONTACT SENSING CONTROL MODULE						
48"		DURESS PUSH BUTTON, UNDER COUNTER			RELAY OUTPUT CONTROL MODULE						
18" UNO		DUPLEX RECEPTACLE			VARIABLE FREQUENCY DRIVE						
18" UNO		FOURPLEX RECEPTACLE			DIRECT DIGITAL CONTROL PANEL						
		FLOOR BOX (TYPE DENOTED)									
		CEILING MOUNTED DUPLEX RECEPTACLE									

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".
 * DISTANCE ABOVE DOOR FRAME ** DISTANCE TO TOP OF EQUIPMENT OR DEVICE *** DISTANCE TO HIGHEST OPERABLE POINT OF EQUIPMENT **** DISTANCE BELOW CEILING ***** DISTANCE TO BOTTOM OF DEVICE

DEMOLITION GENERAL NOTES

- LIGHT LINES INDICATE EXISTING WALLS AND EQUIPMENT TO REMAIN. DASHED LINES INDICATE WALLS, EQUIPMENT, AND ELECTRICAL ITEMS TO BE REMOVED.
- COORDINATE PATCHING REQUIREMENTS FOR UNUSED OPENINGS WITH THE CONSTRUCTION MANAGER.
- FIRE ALARM - REMOVE EXISTING CEILING MOUNTED DEVICES TO PERMIT REMOVAL OF CEILING. WALL MOUNTED NOTIFICATION DEVICES SHALL BE DEMOLISHED. COORDINATE WORK WITH PROJECT PHASING TO MAINTAIN FIRE ALARM SYSTEM PROTECTION OF SPACES AT ALL TIMES.
- COORDINATE DISPOSAL OF ALL ITEMS NOT REQUESTED AS SALVAGE BY THE OWNER.
- DISCONNECT OUTLETS, WIRING, AND OTHER NOTED EQUIPMENT TO PERMIT DEMOLITION OF WALLS. VERIFY AND MAINTAIN CONNECTION TO EXISTING OUTLETS THAT WILL NOT BE REMOVED BUT ARE ON COMMON CIRCUITS WITH ITEMS TO BE REMOVED.
- DRAWINGS DO NOT IDENTIFY ALL OUTLETS, SWITCHES, CABLING, OR EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL BECOME FAMILIAR WITH THE SITE PRIOR TO BIDDING AND INCLUDE LABOR AND MATERIAL NECESSARY FOR REQUIRED DEMOLITION IN THEIR BID.
- WIRING SHALL BE REMOVED BACK TO SERVING PANEL INSTALLATION OF NEW CONDUCTORS IN EXISTING CONDUITS WILL BE PERMITTED AS DESCRIBED IN THE DIVISION 26 SPECIFICATIONS.
- HVAC EQUIPMENT NOTED FOR REMOVAL IS FOR REFERENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL REVIEW THE MECHANICAL SYSTEMS DEMOLITION PLANS AND INCLUDE ALL LABOR AND MATERIAL NECESSARY TO FACILITATE REMOVAL OF EQUIPMENT AS SHOWN ON THOSE DRAWINGS. THIS SHALL INCLUDE ALL ITEMS NOTED ON EITHER THE PLUMBING OR MECHANICAL SERIES OF DRAWINGS.
- CONTRACTOR TO CONTACT JEREMY DENMON AT SIEMENS FOR DECOMMISSIONING AND REPROGRAMMING OF THIS EXISTING SIEMENS SYSTEM. jeremy.denmon@siemens.com 515-553-7019.

HAZARDOUS MATERIAL NOTES

BUILDING CONTAINS HAZARDOUS MATERIAL SUCH AS ASBESTOS AND LEAD PAINT. SUPPLEMENTAL HAZARDOUS MATERIAL REPORT IS PROVIDED IN THE BID DOCUMENTS AS A SEPARATE ATTACHMENT. REFER TO HAZARDOUS MATERIAL REPORT FOR EXTENTS OF TESTING AND RESULTS.

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE - LATEST EDITION ADOPTED BY THE STATE, THE STATE AMENDMENTS, AND THE AUTHORITY HAVING JURISDICTION. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA/AG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES).
- IT IS THE INTENT OF THESE DOCUMENTS TO COMPLY WITH THE ENGINEER/ARCHITECT IN WRITING FOR INTERPRETATION. CORRECT ANY INSTALLATION THAT FAILS TO COMPLY WITH THE CODES AND STANDARDS AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL PROVIDE ALL WORK NECESSARY INCLUDING ALL LABOR, MATERIALS, PERMITS, TAXES, FEES, INSPECTIONS, HARDWARE, AND COST FOR INSTALLATION FOR A COMPLETE AND OPERATIONAL SYSTEM.
- ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW. COMPLETE WITH MANUFACTURER'S GUARANTEE OR WARRANTY AND SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL).
- COORDINATE ELECTRICAL INSTALLATION WITH ALL TRADES PRIOR TO INSTALLATION. IF ELECTRICAL WORK INSTALLED INTERFERES WITH OTHER TRADES AFTER INSTALLATION, THE CONTRACTOR SHALL MAKE ALL NECESSARY CHANGES TO CORRECT THE CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION THIS CONTRACTOR SHALL ADJUST CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
- ALL ELECTRICAL PANELS WITH ANY BRANCH CIRCUIT LOAD REVISIONS (DEMOLITION OR NEW WORK) SHALL HAVE A NEW TYPED UPDATED CIRCUIT DIRECTORY CARD INSTALLED INSIDE THE DOOR OF THE ELECTRICAL PANEL. THE CONTRACTOR SHALL VERIFY THAT ALL UNUSED CIRCUIT BREAKERS ARE TURNED OFF AND PROPERLY INDICATED AS "SPARE" ON THE NEW CIRCUIT DIRECTORY CARD. THE CONTRACTOR SHALL INSTALL FILLER PLATES WHERE BREAKERS ARE REMOVED AS PART OF THIS PROJECT OR HAVE BEEN REMOVED PREVIOUSLY.
- NO ENERGIZED CONDUCTORS SHALL BE EXPOSED AT ANYTIME EXCEPT WHEN THE IMMEDIATE AREA IS UNDER THE SUPERVISION OF A QUALIFIED ELECTRICIAN.
- WHERE CONDUIT IS SURFACE MOUNTED TO A WALL AND RUN VERTICALLY DOWN TO A SWITCH/OUTLET BOX, UTILIZE 1-HOLE OR 2-HOLE CONDUIT STRAPS.
- PENETRATIONS THROUGH FIRE RATED WALLS BY OR FOR DIVISION 26 CONTRACTOR SHALL BE SEALED WITH APPROPRIATE FIRE PROOFING MATERIAL TO RESTORE FIRE RATING.
- THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN OF ALL DEBRIS ON A DAILY BASIS. ALL NEW MATERIALS AWAITING INSTALLATION SHALL BE KEPT IN AREAS DESIGNATED BY THE OWNER.
- PERIODIC SITE OBSERVATION BY THE ENGINEER IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.
- THE INFORMATION CONTAINED ON THE ELECTRICAL DRAWINGS IS IN ITSELF INCOMPLETE AND VOID UNLESS USED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS, THE SPECIFICATIONS, TRADE PRACTICES, OR APPLICABLE STANDARDS, CODES, ETC., AND SHALL BE CONSIDERED THE CONTRACT DOCUMENTS AND WITH ALL THEREIN BY REFERENCE, WHICH THE CONTRACTOR CERTIFIES KNOWLEDGE OF BY SIGNING THE CONTRACT.
- CONTRACTOR IS TO ASSUME FULL RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED ON THE JOB SITE AND BETWEEN INDIVIDUAL DRAWINGS OR SETS OF DRAWINGS FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES (INCLUDING EXCAVATION, SHORING, SCAFFOLDING, BRACING, ERECTION, FORM WORK, ETC.), FOR COORDINATION OF THE VARIOUS TRADES, AND FOR SAFE CONDITIONS ON THE JOB SITE. VARIATIONS IN FIELD CONDITIONS RELATIVE TO THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ENGINEER AS SOON AS THEY ARE FOUND. WORK SHALL NOT PROGRESS UNTIL WRITTEN PERMISSION FROM THE ENGINEER IS OBTAINED.

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	DOP	DOMESTIC WATER CIRCULATING PUMP	HT	HEIGHT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	SWBD	SWITCHBOARD
A	AMPERE	DEPT	DEPARTMENT	HTG	HEATING	HTG	HEATING	SYM	SYMMETRICAL SYSTEM
ACLG	ABOVE CEILING	DET	DETAIL	HTR	HEATER	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH	TEL	TELEPHONE/TELEPHONE/DATA
ADO	AUTOMATIC DOOR OPENER	DISC	DISCONNECT	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NIC	NOT IN CONTRACT	TERM	TERMINAL
AF	AMP FRAME	DIST	DISTRIBUTION	HWP	HYDRONIC WATER PUMP	NL	NIGHT LIGHT	TL	TWIST LOCK
AFF	ABOVE FINISHED FLOOR	DN	DOWN	IC	INTERRUPTING CAPACITY	N.O.	NORMALLY OPEN	TR	TAMPER RESISTANT
AFG	ABOVE FINISHED GRADE	DPR	DAMPER	IG	INTERLOCKED GROUND	NPF	NORMAL POWER FACTOR	T-TSTAT	THERMOSTAT
AFI	ARC FAULT CIRCUIT INTERRUPTER	DS	SAFETY DISCONNECT SWITCH	INC	INTERMEDIATE METAL CONDUIT	NTS	NOT TO SCALE	TTC	TELEPHONE TERMINAL
AHU	AIR HANDLING UNIT	DWG	DRAWING	INCAND	INCANDESCENT	OH	OVERHEAD	TV	TELEVISION
AL	ALUMINUM	EC	ELECTRICAL CONTRACTOR	IR	INTERLOCK WITH	OL	OVERLOADS	TVTC	TELEVISION TERMINAL
ALT	ALTERNATE	ELEC	ELECTRICAL	JW	JUNCTION BOX	PA	PUBLIC ADDRESS	TYP	TYPICAL
AMP	AMPERE	ELEV	ELEVATOR	J-BOX	JUNCTION BOX	PB	PULL BOX OR PUSHBUTTON	UC	UNDER COUNTER
AMPL	AMPLIFIER	EM	EMERGENCY	KV	KILOVOLT	PE	PNEUMATIC ELECTRIC	UE	UNDERGROUND ELECTRICAL
ANNU	ANNUNCIATOR	EMS	ENERGY MANAGEMENT SYSTEM	KVA	KILOVOLT-AMPERE	PED	PEDESTAL	UH	UNIT HEATER
APPROX	APPROXIMATELY	EMT	ELECTRICAL METALLIC TUBING	KVAR	KILOVOLT-AMPERE REACTIVE	PH	PHASE	UNO	UNLESS NOTED OTHERWISE
AQ-STAT	AQUASTAT	EP	ELECTRIC PNEUMATIC EQUIPMENT	KWH	KILOWATT HOUR	PV	POST INDICATING VALVE	UT	UNDERGROUND TELEPHONE
AS	ARCHITECT, ARCHITECTURAL	EQUIP	EQUIPMENT	KWH	KILOWATT HOUR	PNL	PANEL	UTIL	UTILITY
AT	AMP TRIP	EWC	ELECTRIC WATER COOLER	LOC	LOCATE OR LOCATION	PP	POWER POLE	UV	UNIT VENTILATOR OR ULTRAVIOLET
AUTO	AUTOMATIC	EXIST	EXISTING	LT	LIGHT	PR	PAIR	V	VOLT
AUX	AUXILIARY	EXP	EXPLOSION PROOF	LTG	LIGHTING	PRV	PRIMARY	VA	VOLT-AMPERES
AV	AUDIO VISUAL	FA	FIRE ALARM	LV	LOW VOLTAGE	PROJ	PROJECTION	VDT	VIDEO DISPLAY TERMINAL
AWG	AMERICAN WIRE GAUGE	FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	LV	LOW VOLTAGE	PVC	POLYVINYL CHLORIDE (CONDUIT)	VERT	VERTICAL
BATT	BATTERY	FACP	FIRE ALARM CONTROL PANEL	MAX	MAXIMUM	PWR	POWER	VFD	VARIABLE FREQUENCY DRIVE
BD	BOARD	FAN	FAN COIL UNIT	MAG S	MAGNETIC STARTER	Q	QUANTITY	VOL	VOLUME
BLDG	BUILDING	FLT	FIXTURE	MCA	MOMENTARY CONTACT MECHANICAL CONTRACTOR	RCPT	RECEPTACLE	W	WATT
BMS	BUILDING MANAGEMENT SYSTEM	FLR	FLOOR	MCC	MOTOR CONTROL CENTER	REQD	REQUIRED	WG	WIRE GUARD
C	CONDUIT	FU	FUSE	MDC	MAIN DISTRIBUTION CENTER	RH	ROOM	WH	WATER HEATER
CAB	CABINET	FUDES	FUSED SAFETY DISCONNECT SWITCH	MDP	MAIN DISTRIBUTION PANEL	RSC	RIGID STEEL CONDUIT	W/O	WITHOUT
CAT	CATALOG	GA	GAUGE	MFR	MANUFACTURER	RTU	ROOF TOP UNIT	WP	WEATHERPROOF
CATV	CABLE TELEVISION	GALV	GALVANIZED	MFS	MAIN FUSED DISCONNECT SWITCH	SC	SURFACE CONDUIT	XFRM	TRANSFORMER
CB	CIRCUIT BREAKER	GEN	GENERATOR	MH	MANHOLE	SEC	SECONDARY	XFR	TRANSFER
CCTV	CLOSED CIRCUIT TELEVISION	GF	GROUND FAULT	MIC	MICROPHONE	SHT	SHEET		
CKT	CIRCUIT	GF	GROUND FAULT	MIN	MINIMUM	SIM	SIMILAR		
CLG	CEILING	INT	INTERRUPTER	MISC	MISCELLANEOUS	SN	SOLID NEUTRAL		
COMB	COMBINATION	MISC	MISCELLANEOUS	MLO	MAN LUGS ONLY	SPEC	SPECIFICATION	∠	ANGLE
CMPR	COMPRESSOR	GND	GROUND	MMS	MANUAL MOTOR STARTER	SPR	SPEAKER	AT	AT
CONN	CONNECTION	GRS	GALVANIZED RIGID STEEL (CONDUIT)	MOA	MAXIMUM OVER-CURRENT PROTECTION	SS	STAINLESS STEEL	Δ	DELTA
CONST	CONSTRUCTION	GYP BD	GYPSPUM BOARD	MOP	MAXIMUM OVER-CURRENT PROTECTION	SR	SURFACE RACEWAY	-	-
CONT	CONTINUATION OR CONTINUOUS (CONDUIT)	HOA	HANDS-OFF-AUTOMATIC SWITCH	MSP	MAIN SWITCHBOARD	SSW	SELECTOR SWITCH	#	NUMBER
CONTR	CONTRACTOR	CT	CURRENT TRANSFORMER	MT	MOUNT	STA	STATION	Ø	PHASE
CONV	CONVECTOR	CTR	CENTER	MTS	EMPTY CONDUIT STANDARD	STD	STANDARD	¢	CENTER LINE
CP	CIRCUITING PUMP	CU	COPPER	HP	HORSEPOWER	SURF	SURFACE MOUNTED	□	PLATE
CP	CIRCUITING PUMP	HPF	HIGH POWER FACTOR	N.C.	NORMALLY CLOSED	SW	SWITCH		
				N.C.	NATIONAL ELECTRICAL CODE				

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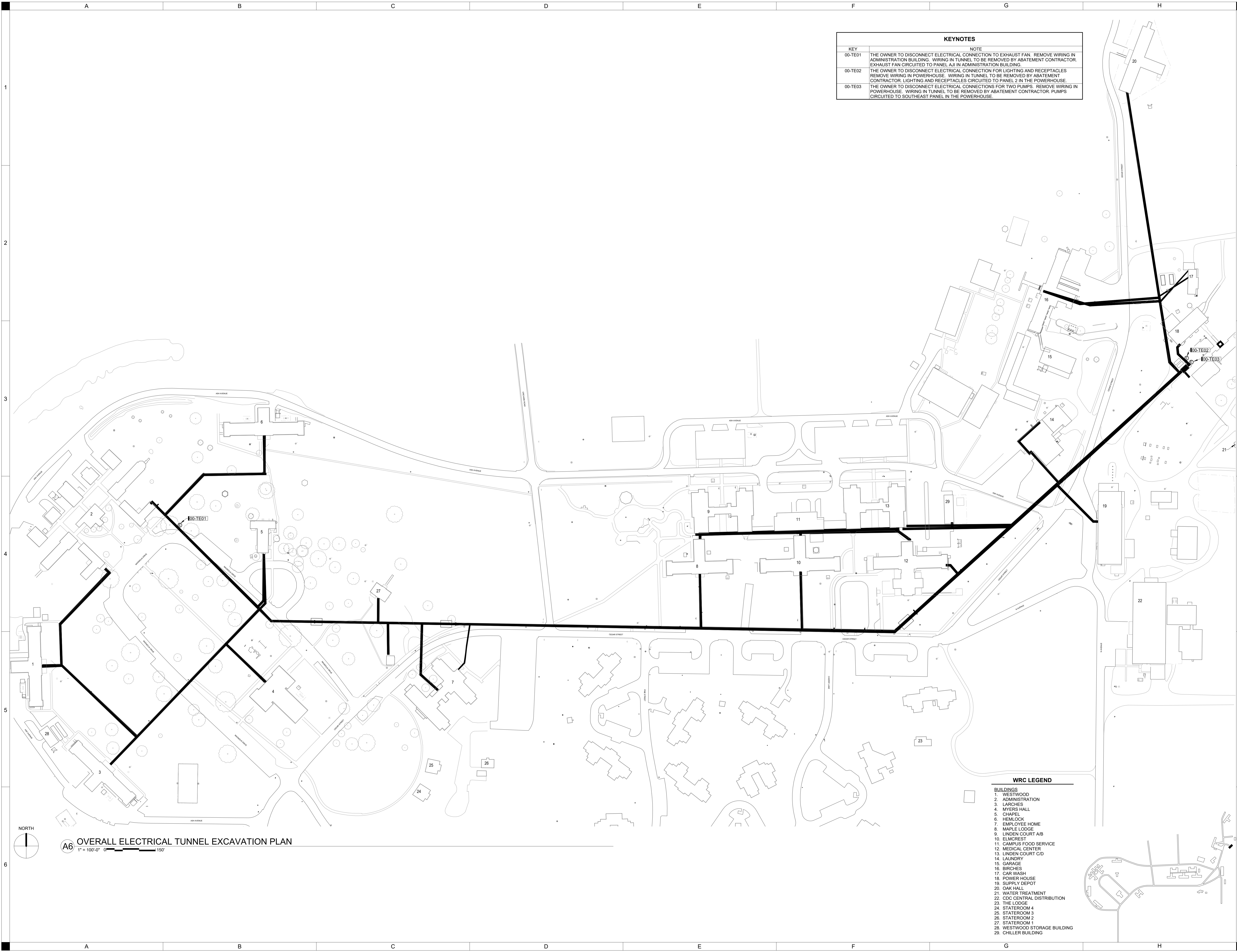
I/A DAS -HHS WRC CAMPUS UTILITY DECENTRALIZATION PHASE 5 - TUNNEL & UTILITY ABANDONMENT
 IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES
 IOWA DEPARTMENT OF TRANSPORTATION
 34 CEDAR ST., WOODWARD, IA 50276

DRAWN BY	RML
APPROVED BY	KJB
ISSUED FOR	100% CD
ISSUE DATE	04/24/2026
PROJECT NUMBER	2240007040
FIELD BOOK	

ELECTRICAL GENERAL INFORMATION

00-E001

KEYNOTES	
KEY	NOTE
00-TE01	THE OWNER TO DISCONNECT ELECTRICAL CONNECTION TO EXHAUST FAN. REMOVE WIRING IN ADMINISTRATION BUILDING. WIRING IN TUNNEL TO BE REMOVED BY ABATEMENT CONTRACTOR. EXHAUST FAN CIRCUITED TO PANEL AJI IN ADMINISTRATION BUILDING.
00-TE02	THE OWNER TO DISCONNECT ELECTRICAL CONNECTION FOR LIGHTING AND RECEPTACLES REMOVE WIRING IN POWERHOUSE. WIRING IN TUNNEL TO BE REMOVED BY ABATEMENT CONTRACTOR. LIGHTING AND RECEPTACLES CIRCUITED TO PANEL 2 IN THE POWERHOUSE.
00-TE03	THE OWNER TO DISCONNECT ELECTRICAL CONNECTIONS FOR TWO PUMPS. REMOVE WIRING IN POWERHOUSE. WIRING IN TUNNEL TO BE REMOVED BY ABATEMENT CONTRACTOR. PUMPS CIRCUITED TO SOUTHEAST PANEL IN THE POWERHOUSE.



A6 OVERALL ELECTRICAL TUNNEL EXCAVATION PLAN
1" = 100'-0" 0 150'

- WRC LEGEND**
- 1. WESTWOOD
 - 2. ADMINISTRATION
 - 3. LARCHES
 - 4. MYERS HALL
 - 5. CHAPEL
 - 6. HEMLOCK
 - 7. EMPLOYEE HOME
 - 8. MAPLE LODGE
 - 9. LINDEN COURT A/B
 - 10. ELMCREST
 - 11. CAMPUS FOOD SERVICE
 - 12. MEDICAL CENTER
 - 13. LINDEN COURT C/D
 - 14. LAUNDRY
 - 15. GARAGE
 - 16. BIRCHES
 - 17. CAR WASH
 - 18. POWER HOUSE
 - 19. SUPPLY DEPOT
 - 20. OAK HALL
 - 21. WATER TREATMENT
 - 22. CDC CENTRAL DISTRIBUTION
 - 23. THE LODGE
 - 24. STATEROOM 4
 - 25. STATEROOM 3
 - 26. STATEROOM 2
 - 27. STATEROOM 1
 - 28. WESTWOOD STORAGE BUILDING
 - 29. CHILLER BUILDING

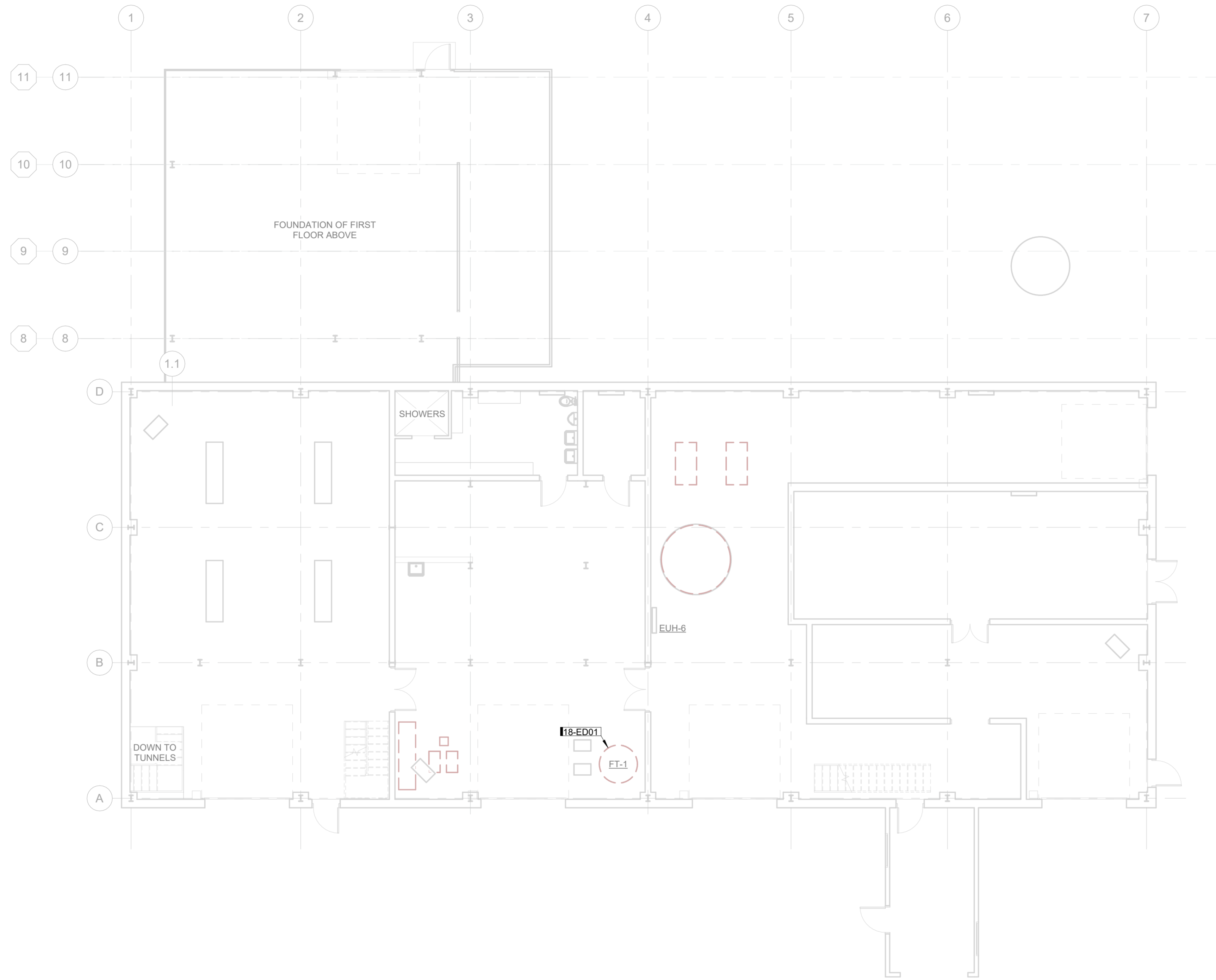
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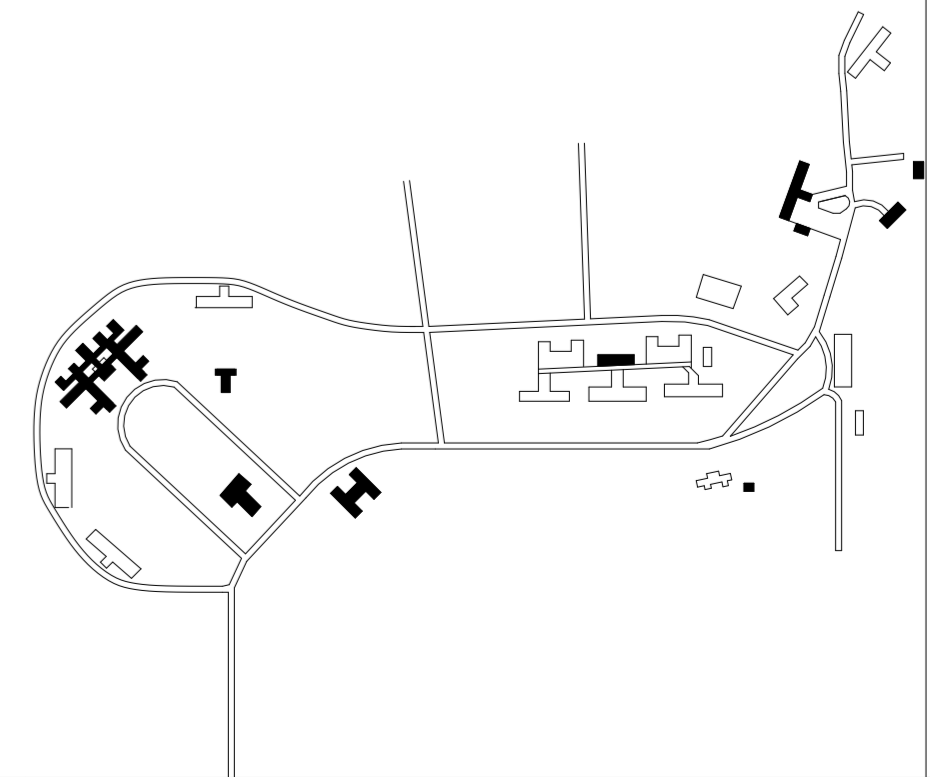
OVERALL TUNNEL ELECTRICAL SITE PLAN

00-ESD01

KEYNOTES	
KEY	NOTE
18-ED01	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL CONNECTION SERVING UNIT. CONTRACTOR SHALL REMOVE ELECTRICAL FEEDS AND CONTROL WIRING BACK TO SOURCE. UPDATE ELECTRICAL PANEL SCHEDULE.



A5 BASEMENT ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0" 0 12'



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PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

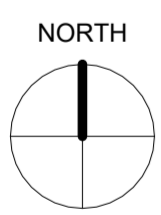
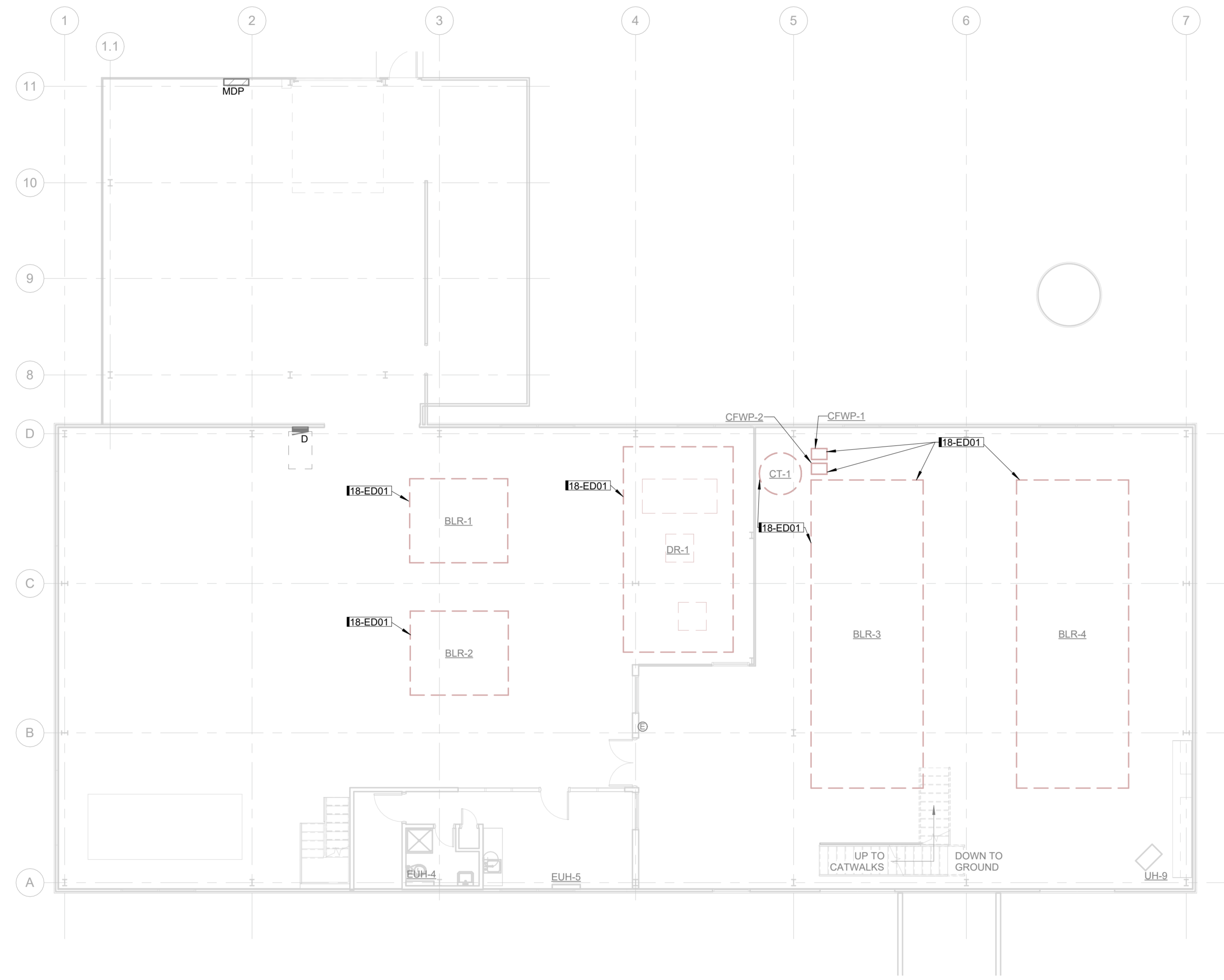
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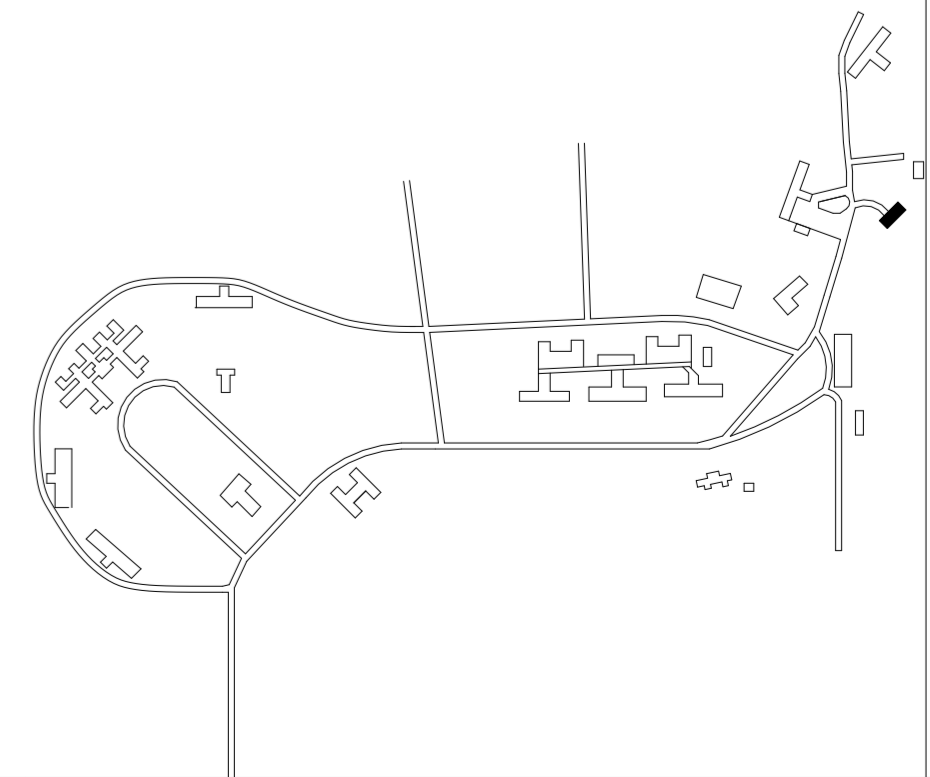
**POWERHOUSE
BASEMENT
ELECTRICAL
DEMOLITION
PLAN**

18-ED001

KEYNOTES	
KEY	NOTE
18-ED01	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL CONNECTION SERVING UNIT. CONTRACTOR SHALL REMOVE ELECTRICAL FEEDS AND CONTROL WIRING BACK TO SOURCE. UPDATE ELECTRICAL PANEL SCHEDULE.



A5 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0" 0 12'



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PHASE 5 - TUNNEL & UTILITY ABANDONMENT**

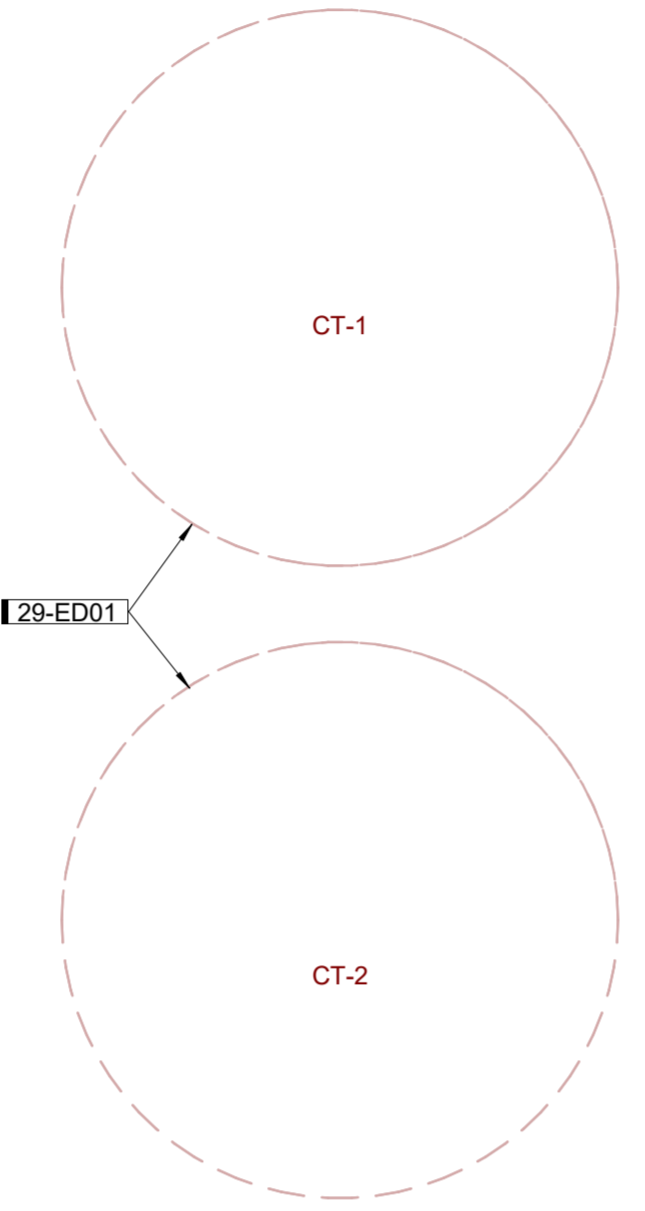
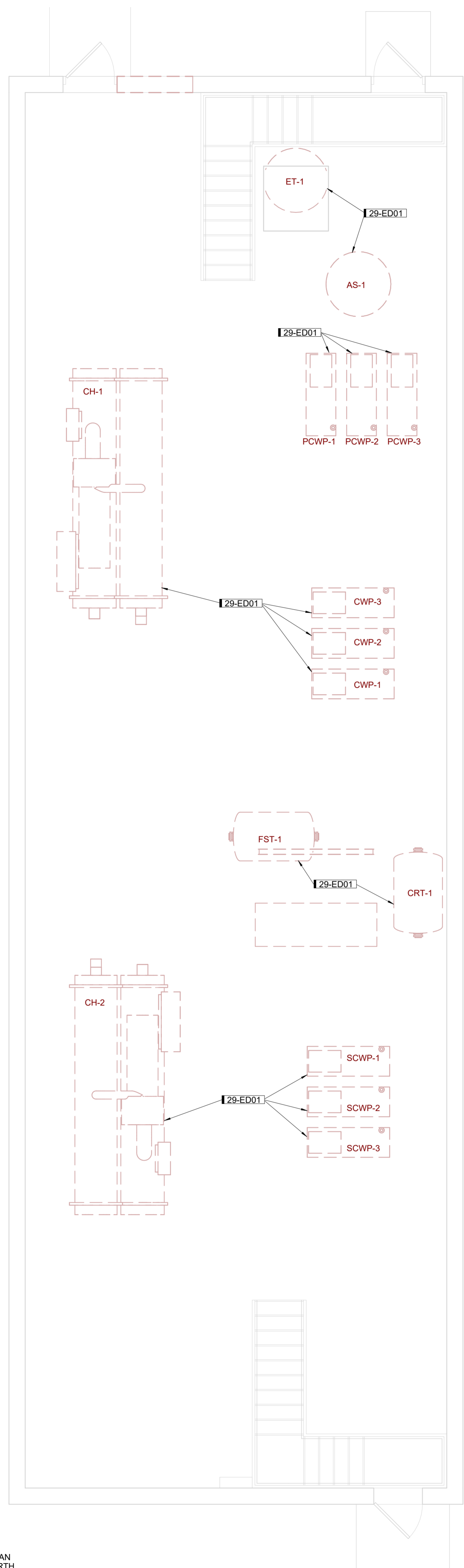
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**POWERHOUSE
FIRST FLOOR
ELECTRICAL
DEMOLITION
PLAN**

18-ED002

KEYNOTES	
KEY	NOTE
29-ED01	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL CONNECTION SERVING UNIT. CONTRACTOR SHALL REMOVE ELECTRICAL FEEDS AND CONTROL WIRING BACK TO SOURCE. UPDATE ELECTRICAL PANEL SCHEDULE.



ALL DEMOLITION WORK IN THE CHILLER PLANT SHALL BE PERFORMED UNDER ALTERNATE #2

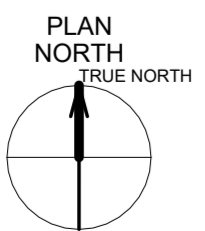
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**CHILLER
BUILDING
ELECTRICAL
DEMO PLAN**

29-ED01



1 GROUND LEVEL ELECTRICAL DEMOLITION PLAN
1/4" = 1'-0"