## Addendum



**DATE:** September 15, 2025

**PROJECT:** City of Oxford

Oxford Park Place Restroom Facility

615 Woodside Drive, Englewood, Ohio 45322 T 937.836.8898 F 937.832.3696

www.app-arch.com

**PROJECT ADDRESS:** 2 West High Street

Oxford, OH 45056

**ADDENDUM NO. 2** 

RECEIPT OF THIS ADDENDUM MUST BE NOTED ON THE FORM OF PROPOSAL

#### **TO ALL BIDDERS:**

This addendum supplements and amends the original Plans and Specifications and Addendum 1 dated 09/15/2025 shall be taken into account in preparing proposals and shall become part of the Contract Documents.

#### **GENERAL ITEMS:**

ITEM G1 Lowest and Best Bidder

• City of Oxford reserves the right to choose lowest and best bidder.

#### **ARCHITECTURAL DRAWINGS:**

ITEM A1 Drawing Sheet G0.1 – COVER SHEET

- Update annotation on Overall Site Plan (D1/G0.1).
- Sheet has been reissued.

ITEM A2 Drawing Sheet A0.2 – FINISH SCHEDULES

- Update Openings Schedule, Room Finish Schedule, Material Legend, and Wall Types Schedule.
- Clarification on Alternate #2: Epoxy Flooring.
- Sheet has been reissued.

ITEM A3 Drawing Sheet A0.3 – MISCELLANEOUS DETAILS

- Update Window Jamb Detail (D5/A0.3).
- Sheet has been reissued.

#### ITEM A4 Drawing Sheet A1.1 – DEMOLITION + NEW SITE PLANS

- Update Demolition Site Plan (F1/A1.1) and New Work Site Plan (F4/A1.1).
- Clarification on Alternate #1: West Sidewalk Replacement.
- Sheet has been reissued.

#### ITEM A5 Drawing Sheet A1.2 – REFERENCE PLANS

- Update construction notes on Reference Floor Plan (F1/A1.2) and Accessory Schedule.
- Sheet has been reissued.

#### ITEM A6 Drawing Sheet A1.3 – ROOF + REFLECTED CEILING PLANS

- Update Wood Arch Elevation (C1/A1.3), Roof Plan (F2/A1.3), Reflected Ceiling Plan (F4/A1.3).
- Sheet has been reissued.

#### ITEM A7 Drawing Sheet A3.1 – EXTERIOR ELEVATIONS

- Update annotation on all Elevations and Masonry Pattern (E3/A3.1).
- Clarification on Alternate #3: Art Anchors.
- Sheet has been reissued.

#### ITEM A8 Drawing Sheet A3.2 – BUILDING SECTIONS

- Update annotation on Building Section (F3/A3.2).
- Sheet has been reissued.

#### ITEM A10 Drawing Sheet A5.1 – FOUNDATION DETAILS

- Update Foundation at Int. Partition (C4/A5.1) and Int. to Ext. Slab Transition (C5/A5.1) Vapor Barrier location.
- Update Construction Note #5
- Sheet has been reissued.

#### ITEM A11 Drawing Sheet A5.2 – MASONRY DETAILS

- Update Water Heater Shelf detail (C2/A5.2).
- Sheet has been reissued.

#### ITEM A12 Drawing Sheet A5.3 – EXTERIOR DETAILS

- Update details: C4, C5, E4, F4, F5 on Sheet.
- Clarification on Alternate #3: Art Anchors.
- Sheet has been reissued.

#### ITEM A13 Drawing Sheet A7.1 – INTERIOR ELEVATIONS

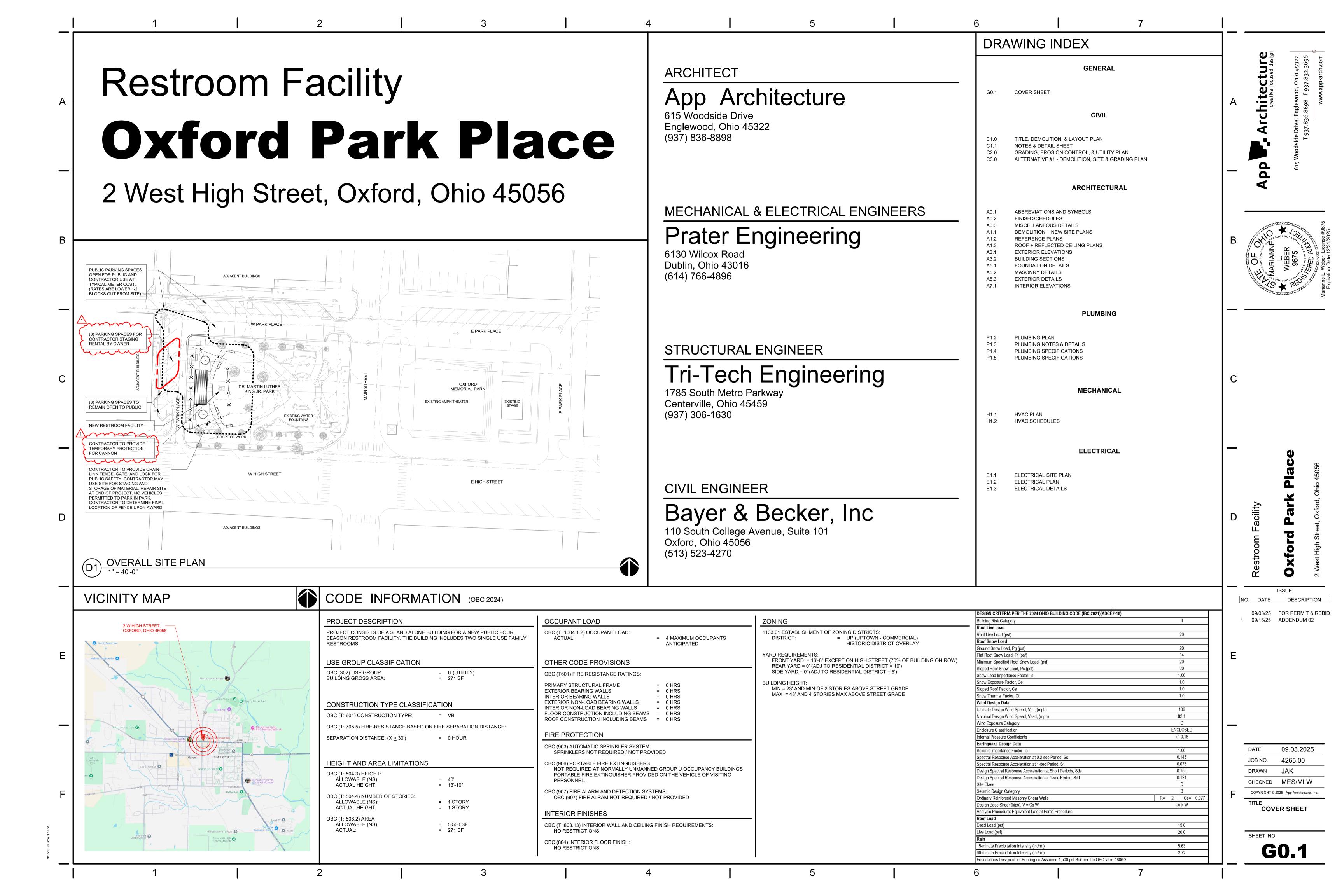
- Update construction notes and dimensions on Interior Elevations and Accessory Schedule.
- Sheet has been reissued.

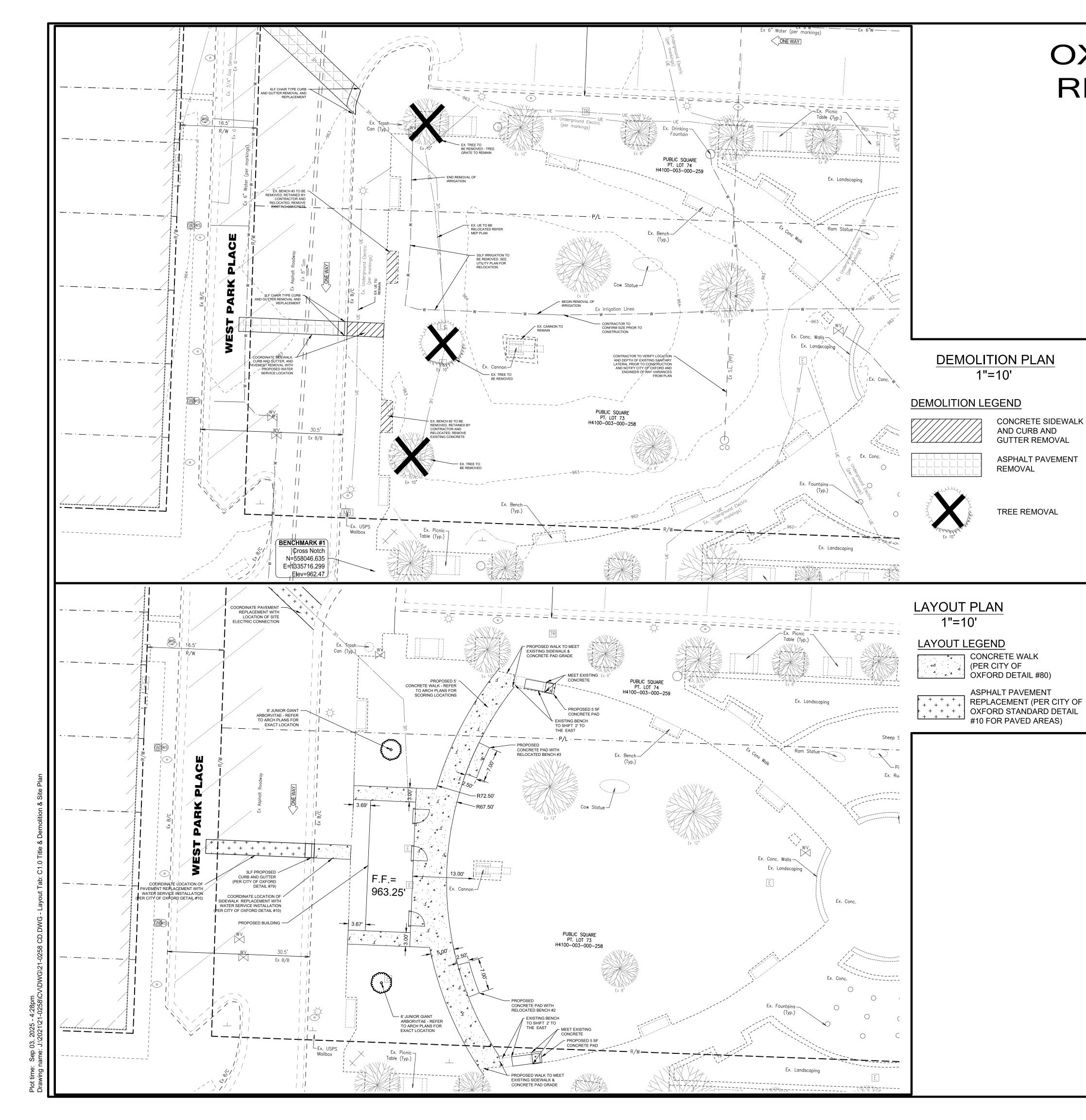
#### **END OF ADDENDUM NO. 2**

#### **ATTACHMENTS:**

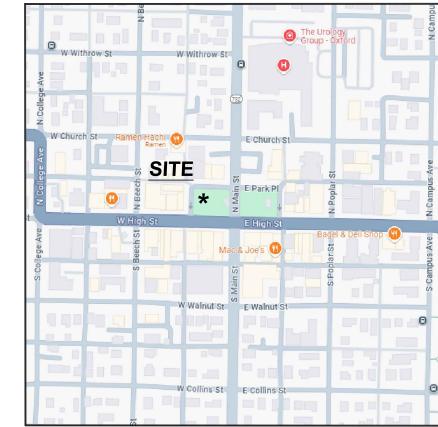
Full Drawing Set
 26 pages

PROJECT NO. 4265 ADDENDUM NO. 2 PAGE 2 OF 2





# OXFORD PARK PLACE RESTROOM FACILITY PUBLIC SQUARE PT LOTS 73 & 74 CITY OF OXFORD BUTLER COUNTY, OHIO



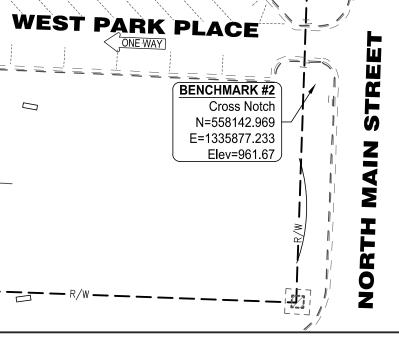
## **VICINITY MAP**

## BENCHMARK #1

SET CROSS NOTCH LOCATED IN THE SIDEWALK
APPROXIMATELY 15.02 FEET NORTH OF THE
BACK OF CURB ON WEST HIGH STREET AND
8.03 FEET EAST OF THE BACK OF CURB ON
WEST PARK PLACE
N = 558046.635 E = 1335716.299
ELEVATION = 962.47

## BENCHMARK #2

SET CROSS NOTCH LOCATED IN THE
SIDEWALK APPROXIMATELY 9.39 FEET SOUTH
OF THE BACK OF CURB ON WEST PARK PLACE
AND 7.87 FEET WEST OF THE BACK OF CURB
ON NORTH MAIN STREET
N = 558142.969 E = 1335877.233
ELEVATION = 961.67



OFFSITE BENCHMARK - #2 SCALE: 1" = 40'

## **ARCHITECT**

APP ARCHITECTURE, INC. 615 WOODSIDE DRIVE ENGLEWOOD, OHIO 45322

## STRUCTURAL ENGINEER

TRI-TECH 1785 SOUTH METRO PARKWAY CENTERVILLE, OHIO 45459 (937) 306-1630

## **ENGINEER & SURVEYOR**

BAYER BECKER 110 SOUTH COLLEGE AVENUE, SUITE 101 OXFORD, OHIO 45056 (513)523-4270

# MECHANICAL & ELECTRICAL ENGINEER

PRATER ENGINEERING 6130 WILCOX ROAD DUBLIN, OHIO 43016 (614)766-4896

PROJECT DATA
PROJECT AREA = 0.055 +/- ACRES

## UTILITY CONTACTS

SANITARY, WATER & STORM SEWER
CITY OF OXFORD
15 S. COLLEGE AVE
OXFORD, OHIO 45056
ATTN: SCOTT OTTO, PE

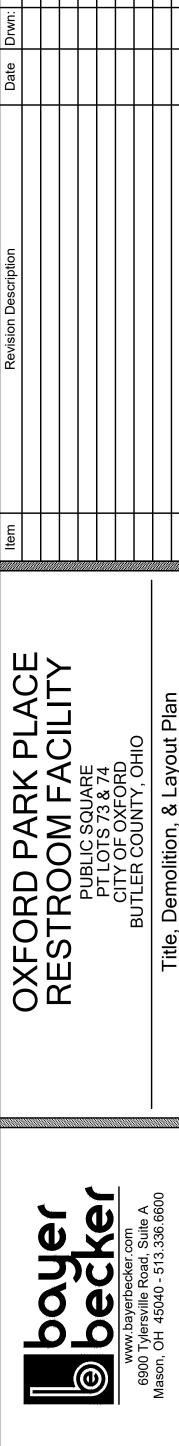
## GAS

513-524-5208

GLENWOOD ENERGY 5181 COLLEGE CORNER PIKE OXFORD, OHIO 45056 ATTN: RICK KREIGER 513-839-0109

DUKE ENERGY (DISTRIBUTION) ATTN: MATTEO MORRISON 513-477-6570





WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. 2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS

FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVED IN THIS PROJECT AND ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION,

4. CONTRACTOR AND OWNER SHALL VERIFY AND ACCEPT ALL QUANTITIES PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL VERIFY THAT COORDINATES, IF USED, MATCH PLAN DIMENSIONS. WHEN IN CONFLICT, THE PLAN DIMENSIONS SHALL GOVERN OVER COORDINATES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER

6. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION" AND THE REQUIREMENTS OF THE CITY OF OXFORD.

EXISTING SITE SURVEY, TOPOGRAPHY, AND SUBSURFACE CONDITIONS: EXISTING CONDITIONS PRESENTED IN DRAWING, REPORT OR SPECIFICATION FORM ARE BELIEVED ACCURATE WITHIN NORMAL INDUSTRY TOLERANCES BUT ARE NOT GUARANTEED. INVESTIGATE, SURVEY, CONFIRM AND VERIFY ALL CONDITIONS BEARING ON THE WORK BY ANY MEANS NECESSARY BEFORE STARTING ANY WORK THAT CHANGES EXISTING CONDITIONS. REPORT ANY UNACCEPTABLE DISCREPANCIES TO THE ENGINEER IN WRITING BEFORE BEGINNING OPERATIONS

7.1. WRITTEN CLAIMS OF DIFFERENCE SHALL BE ACCOMPANIED BY SUBSTANTIATING EVIDENCE. CLAIMS OF DIFFERENCE SHALL BE RESOLVED, INCLUDING DETERMINATION OF QUANTITIES AND COSTS AND METHODS OF CONTRACT MODIFICATION, BEFORE WORK THAT ALTERS SUCH EXISTING CONDITIONS IS STARTED.

7.2. INITIATION OF SITE-CLEARING, SOIL-MOVING OPERATIONS, DEMOLITION OR OTHER ACTIVITY THAT ALTERS EXISTING CONDITIONS SHALL BE EVIDENCE THAT CONTRACTOR HAS MADE ALL INVESTIGATIONS AND EVALUATIONS IT DEEMS NECESSARY AND HAS ACCEPTED ALL EXISTING CONDITIONS PRESENT WHETHER OR NOT THEY CONFORM EXACTLY TO THE DOCUMENTS.

7.3. WITHOUT ADVANCE WRITTEN NOTIFICATION OF UNACCEPTABLE DISCREPANCY, NO CLAIM FOR EXTRA WILL BE CONSIDERED FOR A CLAIM OF DIFFERENCE BETWEEN DOCUMENTS AND ACTUAL CONDITIONS AFTER THE CONTRACTOR HAS ALTERED EXISTING CONDITIONS.

WHERE CONNECTING TO EXISTING ASPHALT PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING EDGE OF PAVEMENT TO PROVIDE A CLEAN AND SOUND EDGE. ITEM 407 TACK COAT SHALL BE APPLIED TO THE ENTIRE CUT FACE OF THE EXISTING PAVEMENT PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT.

9. ALL SITE CONCRETE SHALL BE PER ODOT ITEM 499 CLASS C UNLESS OTHER WISE NOTED ON THE PLANS.

#### DEMOLITION NOTES

 THE TOPOGRAPHIC AND UTILITY INFORMATION SHOWN IS BASED ON A TOPOGRAPHIC SURVEY PREPARED BY BAYER BECKER, AND VARIOUS UTILITY PLANS PROVIDED BY THOSE GOVERNING

2. THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON THE PREMISES. THE ENGINEER DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY LOCATIONS WITH UTILITY COMPANIES BEFORE MAKING EXCAVATIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS WHETHER SHOWN ON THESE PLANS OR NOT.

APPROPRIATE UTILITY COMPANIES AND OHIO UTILITIES PROTECTION SERVICE (811) SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO BREAKING GROUND FOR THE PURPOSE OF VERIFYING BY FIELD INSPECTION THE EXACT LOCATION OF THE UNDERGROUND UTILITY. UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ACCORDING TO AVAILABLE INFORMATION.

4. THESE PLANS, AS PREPARED BY BAYER BECKER, DO NOT EXTEND TO OR INCLUDE SYSTEMS PERTAINING TO THE SAFETY OF THE DEMOLITION/CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF BAYER BECKER'S REGISTERED PROFESSIONAL ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS WHICH MAY BE REQUIRED BY U.S. OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS..

ALL CONTRACTORS INCLUDING BUT NOT LIMITED TO THE DEMOLITION, EXCAVATION, PAVING, PLUMBING ELECTRICAL, SIGN, FIRE PROTECTION, HVAC CONTRACTORS SHALL BE UNDER THE DIRECTION OF THE GENERAL CONTRACTOR OR OWNER WHO WILL BE HELD RESPONSIBLE FOR THE COORDINATION OF ALL WORK ON THIS PROJECT AND THE PROPER EXECUTION OF THE SAME.

THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. REMOVAL AND/OR RELOCATION OF ANY UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY AND SHALL BE DISCONNECTED PER THE ASSOCIATED UTILITY AGENCY'S

REQUIREMENTS. 8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, FACILITIES, AND STRUCTURES THAT ARE INTENDED TO CONTINUE TO PROVIDE SERVICE WHETHER SHOWN ON THE PLANS OR NOT

9. WHERE CONNECTING TO EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT THE EXISTING EDGE OF PAVEMENT TO PROVIDE A SOUND & CLEAN EDGE. THE CONTRACTOR SHALL APPLY ITEM 407 TACK COAT TO THE ENTIRE CUT FACE OF THE EXISTING PAVEMENT PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT.

10. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES PRIOR TO DEMOLITION AND CONSTRUCTION.

11. AS SOON AS DEMOLITION WORK HAS BEEN OTHERWISE COMPLETED AND APPROVED BY THE OWNER, EARTHWORK MAY BEGIN. THE FINAL GRADE IN AREAS OUTSIDE THE CONSTRUCTION SITE SHALL BE SUCH AS TO PRESENT A NEAT, WELL-DRAINED APPEARANCE, AND TO PREVENT WATER FROM DRAINING UNNECESSARILY ONTO ADJACENT PROPERTIES.

## **GENERAL UTILITY**

BACKFILL OF ALL UTILITY EXCAVATIONS IN STRUCTURAL AREAS INCLUDING UNDER PAVEMENTS OR WITHIN TEN (10) FEET OF ANY BUILDING AREAS SHOULD BE CONTINUALLY MONITORED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY THAT PROPER LIFT THICKNESS, MOISTURE CONDITION, AND COMPACTIVE EFFORT ARE MAINTAINED.

CONTRACTOR SHALL VERIFY ALL UTILITY AND CONDUIT SIZES AND LOCATIONS WITH THE ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES.

ALL BUILDING UTILITY SERVICES ARE TO BE STUBBED 5 FT. FROM THE BUILDING FOR CONNECTION BY INTERIOR CONTRACTOR.

CONTRACTOR SHALL OBTAIN RIGHT OF WAY PERMIT FROM CITY OF OXFORD FOR ALL WORK PROPOSED WITHIN THE PUBLIC RIGHT OF WAY.

## WATER MAINS

ALL WATER WORK AND WATER MAIN MATERIALS INCLUDING PIPE, FITTINGS, VALVES, HYDRANTS, AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT SPECIFICATIONS AND BACKFLOW CROSS CONNECTIONS MANUAL.

ALL PUBLIC WATER MAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS, AND APPURTENANCES SHALL BE CLASS 53 DUCTILE IRON PER AWWA C-151.

NO PART OF ANY FIRE HYDRANT SETTING SHALL BE CLOSER THAN FIVE (5) FEET FROM ANY INLET, DRIVEWAY,

PARKING LOT, UTILITY POLE, OR GUY WIRE ANCHOR. WATER MAINS SHALL MAINTAIN A MINIMUM COVER OF FOUR (4) FEET.

ALL WATER MAIN VALVES SHALL HAVE A MINIMUM DEPTH OF 2.5 FT. AND MAXIMUM DEPTH OF 4.0 FT. FROM

PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.

A MINIMUM CLEAR DISTANCE OF TEN (10) FEET HORIZONTAL OR EIGHTEEN (18) INCHES VERTICAL SHALL BE

MAINTAINED BETWEEN SANITARY AND/OR STORM SEWERS AND WATER MAINS. SANITARY AND STORM SEWERS THAT CROSS WATER MAINS SHALL BE LOCATED SUCH THAT THE SEWER JOINTS

WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. ALL WATER MAINS SHALL BE PROVIDED WITH JOINT RESTRAINT AT ALL TEES, HORIZONTAL AND VERTICAL BENDS, ETC...WHETHER SHOWN ON THE PLAN VIEW OR NOT. JOINT RESTRAINT SHALL MEET THE REQUIREMENTS OF THE CITY OF OXFORD'S WATER AND SANITARY SEWER IMPROVEMENT SPECIFICATIONS AND BACKFLOW CROSS

CONNECTION MANUAL. SERVICE PIPING SMALLER THAN THREE (3) INCHES SHALL BE SEAMLESS COPPER FLEXIBLE WATER TUBING, ASTM B 88, TYPE K, PRESSURE CLASS 250.

9.1. FITTINGS SHALL BE COMPRESSION STYLE FOR CTS TUBING, CONSULT GOVERNING AGENCY FOR A LISTING OF

ACCEPTABLE MANUFACTURERS AND PRODUCTS. COUPLINGS WITH SET SCREWS OR GRIP RINGS WILL NOT BE ACCEPTABLE.

WATER SERVICE TUBING SHALL BE BEDDED SIX (6) INCHES ABOVE AND BELOW WITH SAND OR OTHER NON-COMPACTIBLE MATERIAL APPROVED BY THE GOVERNING AGENCY.

10. CITY OF OXFORD WATER DEPARTMENT SHALL ESTABLISH PROCEDURES FOR REPAIRS TO WATER MAIN OR WATER

11. ALL WATER METER PITS SHALL CONFORM TO THE MATERIALS AND SPECIFICATIONS OF THE GOVERNING AGENCY.

## WATER MAINS (CONTINUED)

12. THE FOLLOWING ITEMS ARE TO BE APPROVED BY THE FIRE DEPARTMENT: 12.1. INSTALLATION OF ALL UNDERGROUND FIRE SUPPRESSION LINES ARE TO BE INSPECTED BY THE FIRE DEPARTMENT; INSTALLERS ARE REQUIRED TO BE LICENSED BY THE OHIO FIRE MARSHALL.

12.2. WATER SUPPLY AND CONNECTIONS TO THE SUPPLY. 12.3. PRESSURE REGULATORS OR METERS ON THE WATER SUPPLY LINES.

12.4. LOCATION AND/OR OMISSION OF FIRE DEPARTMENT CONNECTIONS.

12.5. FIRE DEPARTMENT CONNECTION HOSE CONNECTION THREADS (CAPS ALSO REQUIRED) 12.6. USE OF CONTROL VALVES IN WATER SUPPLY OTHER THAN INDICATING VALVES.

12.7. SIZE AND LOCATION OF VALVE PITS; USE OF BURIED VALVES OR PITS.

12.8. LOCATION AND IDENTIFICATION OF SECTION VALVES IN UNDERGROUND WATER SUPPLIES. 12.9. TYPE, ARRANGEMENT, LOCATION, IDENTIFICATION, THREADS, PROTECTION OF ALL HYDRANTS

12.10. UNDERGROUND PIPING INSTALLATION METHODS AND PROCEDURES.

12.11. HYDROSTATIC TESTING OF UNDERGROUND SYSTEMS; FIRE DEPT. MUST BE CALLED TO WITNESS TESTING; PROVIDE COPY OF CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND SYSTEM. AMOUNT OF PIPE LEAKAGE TO BE ACCEPTABLE TO FIRE DEPT.

12.12. FLUSHING OF UNDERGROUND SYSTEM TO BE WITNESSED BY FIRE DEPT.

12.13. HYDRANT OPERATING TEST TO BE WITNESSED BY FIRE DEPT.

#### GAS FACILITIES AND SERVICES

ONLY FOR PLANNING, NOT CONSTRUCTION.

1. FOR GAS ENGINEERING NOTIFICATION, AGREEMENTS AND OFFICIAL CORRESPONDENCE RELATED TO GLENWOOD ENERGY, ADDRESS TO: KEITH SMITH

513-523-2555 5181 COLLEGE CORNER PIKE

OXFORD, OHIO 45056 2. THE GAS MAIN INFORMATION PROVIDED SHOWS THE APPROXIMATE LOCATIONS AND DEPTHS OF COVER AND IS PROVIDED TO COMPLY WITH STATUTORY REGULATIONS. THIS INFORMATION SHOULD BE USED

3. ALL GAS MAIN DEPTHS OF COVER IF NOTED ARE APPROXIMATE DEPTHS OF COVER RECORDED AT THE TIME OF INSTALLATION. ANY RESULTING GRADE CHANGES SINCE THE TIME OF THE MAIN INSTALLATION WILL CAUSE THE EXISTING DEPTHS OF COVER TO BE DIFFERENT. EXTREME CARE MUST BE TAKEN TO ENSURE SAFE EXCAVATION WHEN APPROACHING KNOWN OR SUSPECTED GAS FACILITIES.

4. GAS SERVICE SHALL MEET THE REQUIREMENTS OF THE UTILITY PROVIDER. FOR ADDITIONAL GAS FACILITY RECORD INFORMATION, CALL 513-523-2555.

TO COMPLY WITH FEDERAL AND STATE REGULATIONS CONCERNING DAMAGE PREVENTION PROGRAMS, THE UTILITY COMPANIES MUST BE CONTACTED AT LEAST 48 HOURS (2 WORKING DAYS) PRIOR TO EXCAVATION BY CALLING THE OHIO UTILITIES PROTECTION SERVICE (OUPS), TOLL FREE AT 811.

GAS FACILITIES ARE TO BE KEPT IN SERVICE AT ALL TIMES. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO GAS FACILITIES DURING OR AS A RESULT OF THE CONTRACTOR'S CONSTRUCTION. ALL DAMAGE TO GAS FACILITIES REQUIRING ADJUSTMENTS. RELOCATIONS AND/OR REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.

9. THE CONTRACTOR SHALL SHEET AND SHORE ALL EXCAVATIONS AS REQUIRED TO CONTINUOUSLY SUPPORT GAS FACILITIES WITHIN THE ZONE OF INFLUENCE (AS DETERMINED BY THE NATURAL ANGLE OF

10. CROSSING BURIED GAS FACILITIES WITH HEAVY CONSTRUCTION EQUIPMENT MAY CAUSE DAMAGE TO THE GAS FACILITIES. CONTACT THE GAS ENGINEERING DEPARTMENT FOR DETAILS ON HOW TO PROTECT THE GAS FACILITIES FROM DAMAGE.

11. THE CONTRACTOR SHALL NOT BACKFILL EXPOSED GAS FACILITIES UNTIL THE UTILITY HAS INSPECTED ITS FACILITIES AND PERFORMED ANY MAINTENANCE AND/OR ADJUSTMENTS THAT MAY BE REQUIRED. 12. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING ANY DAMAGE TO EXISTING GAS FACILITIES. THIS

INCLUDES PROTECTION OF COATINGS AND WRAPPINGS ON STEEL GAS MAINS. IT ALSO INCLUDES ANY DAMAGE WHICH MAY HAVE OCCURRED TO PLASTIC GAS MAINS, SUCH AS CRIMPS OR GOUGES. 13. WHEN CAST IRON OR SIMILAR GAS FACILITIES ARE EXPOSED OR INTERFERED WITH BY THE

CONTRACTOR, REPLACEMENT OR REINFORCEMENT BY THE UTILITY OWNER MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE. BACKFILL WITH CONTROL LOW STRENGTH MATERIAL WILL BE REQUIRED. 14. BLASTING OR OTHER CONSTRUCTION PROCEDURES WHICH MAY TRANSMIT LOADS OR VIBRATIONS IN THE VICINITY OF GAS FACILITIES MUST BE APPROVED BY THE GAS ENGINEERING DEPARTMENT. A

BLASTING EXPERT PRIOR TO ANY WORK. 15. PROPOSED DEVELOPMENT PLANS AROUND AND NEAR GAS FACILITIES WITHIN PRIVATE EASEMENTS MUST BE SUBMITTED TO THE GAS ENGINEERING DEPARTMENT FOR REVIEW. THESE PLANS MUST BE

BLASTING PLAN, IDENTIFYING ALL PERTINENT INFORMATION, MUST BE SUBMITTED IN WRITING BY A

APPROVED BEFORE ANY WORK MAY BEGIN WITHIN THE UTILITY OWNER'S EASEMENTS 16. SPECIFIED EASEMENT WIDTHS MUST BE MAINTAINED IN ORDER FOR THE UTILITY PROVIDER TO PROTECT

17. NO PERMANENT STRUCTURES MAY BE BUILT WITHIN THE EASEMENTS

18. CUTS AND FILLS ARE GENERALLY NOT PERMITTED WITHIN THE EASEMENTS. SOME FILLS MAY BE ALLOWED, AND WILL BE REVIEWED ON AN INDIVIDUAL BASIS. ANY PERMITTED FILLS WILL BE LIMITED TO AN AMOUNT WHICH WILL ALLOW THE UTILITY OWNERS TO PROPERLY MAINTAIN ITS FACILITIES.

City of Oxford Standard Drawing #51

ISOMETRIC VIEW

SIDEWALK .

SURFACE OF SIDEWALK SHALL BE DIVIDED BY EDGED CONTROL JOINTS CONSTRUCTED AT RIGHT ANGLES TO THE CENTERLINE OF THE SIDEWALK, THE CONTROL JOINTS SHALL EXTEND 1 INCH IN DEPTH AND SHALL BE PLACED AT INTERVALS NO GREATER THAN

EXPANSION JOINTS SHALL BE PLACED TO WITHIN  $1/4^*$  BELOW THE SURFACE OF THE CONCRETE AND AT INTERVALS OF 100 FEET FOR NEW CONSTRUCTION.

SECTION A-A

CONCRETE SHALL BE ODOT CLASS QC MISC. OR QC1, MINIMUM 4000 PSI STRENGTH City of Oxford Standard Drawing #80

19. PERPENDICULAR UTILITY CROSSINGS OF GAS EASEMENTS ARE ACCEPTABLE, PROVIDED PROPER CLEARANCES ARE MAINTAINED. PARALLEL INSTALLATIONS ARE NORMALLY NOT ALLOWED.

## of Oxford (Water Meter Pit and Assembly) Water Meter shall be "furnished" and "purchased from" the City of Oxford. Corporation Stop (Flare F-600-4 Compression FB-1000-4) shall be installed at a 22-1/2 degree angle (2:00 and 10:00) 1" standard or utility approved equal. Service Line shall be K-Copper Tubing only. 1" standard from water main to copper setter Curb Stop shall be (Ford-B-44-444 Compression, or Ford-B-22-444 Flare) 1" standard or Utility approved equal. Box shall be Tyler@2-piece or Utility approved equal. r Pit shall be rigid PVC 20" width x 30" depth (SIGMA HDPE Products) RMP 2030 W/B or Utility approved pit lid assembly shall be a Ford® Wabash Double Lid Cover (W3—T—Recessed) w/plastic (W3BPD) frost PVC pipe or Utility approved equal. I material shall be sand, #9's, pea gravel or approved equal by the Utility. With a minimum cover of 12' te copper service line. 42" TO 48" DEPTH OF COVER 4' MINIMUM DEPTH OF COVI Engineering Division Standard REPLACEMENT IRON LID FOR IRON FRAME # WA3L-C-REC463-Water Meter P and Assembly

DROP COVER LIE

VARIABLE

City of Oxford Engineering Division STANDARD

VALVE BOX

ity of Oxford Standard Drawing # 62

Revised 2005/2010/2016

STANDARD 3 PIECE WATER

VALVE BOX ASSEMBLY

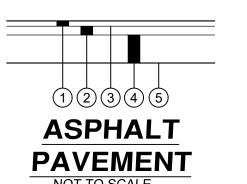
VALUE BOX SECURICATIONS: East Jordan Iron Works® (Heavy Duty) Tyler Union® (Heavy Duty) Or Utility Approved Equal (Heavy Duty)

VALVE NUT-

VALVE ---

VALVE BOX SPECIFICATIONS

COVER MARKED "WATER"



(1) ITEM 448 - 1-1/2" SURFACE COURSE (2) ITEM 448 - 1-3/4" INTERMEDIATE COURSE

(3) ITEM 407 - TACK COAT (4) ITEM 304 - 10" AGGREGATE BASE

(5) ITEM 203 - SUBGRADE COMPACTION

DRAWING NOT TO SCALE

City of Oxford

Engineering Division

STANDARD

SIDEWALK

## **GRADING NOTES**

ITEM NUMBERS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) CONSTRUCTION AND MATERIAL SPECIFICATIONS (2018) AND ALL CONSTRUCTION WORK SHALL BE DONE ACCORDING TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE GOVERNING AGENCIES. WHEN IN CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

2. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION OR EARTH MOVING OPERATIONS.

3. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITY PROTECTION SERVICE (OUPS) AND ALL OTHER AGENCIES WHICH MAY HAVE UNDERGROUND UTILITIES INVOLVED IN THIS PROJECT AND ARE NOT MEMBERS OF OHIO UNDERGROUND PROTECTION, INC.

4. CONTRACTOR AND OWNER SHALL VERIFY AND ACCEPT ALL QUANTITIES PRIOR TO BEGINNING

CONTRACTOR SHALL VERIFY THAT COORDINATES, IF USED, MATCH PLAN DIMENSIONS. WHEN IN CONFLICT, THE PLAN DIMENSIONS SHALL GOVERN OVER COORDINATES, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

UNLESS OTHERWISE NOTED, ALL CONSTRUCTION DETAILS SHALL CONFORM WITH THE "STANDARD CONSTRUCTION DRAWINGS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION".

7. EXISTING SITE SURVEY, TOPOGRAPHY, AND SUBSURFACE CONDITIONS: EXISTING CONDITIONS PRESENTED IN DRAWING, REPORT OR SPECIFICATION FORM ARE BELIEVED ACCURATE WITHIN NORMAL INDUSTRY TOLERANCES BUT ARE NOT GUARANTEED. INVESTIGATE, SURVEY, CONFIRM AND VERIFY ALL CONDITIONS BEARING ON THE WORK BY ANY MEANS NECESSARY BEFORE STARTING ANY WORK THAT CHANGES EXISTING CONDITIONS. REPORT ANY UNACCEPTABLE DISCREPANCIES TO THE ENGINEER IN WRITING BEFORE BEGINNING OPERATIONS

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7.2. INITIATION OF SITE-CLEARING, SOIL-MOVING OPERATIONS, DEMOLITION OR OTHER ACTIVITY THAT ALTERS EXISTING CONDITIONS SHALL BE EVIDENCE THAT CONTRACTOR HAS MADE ALL INVESTIGATIONS AND EVALUATIONS IT DEEMS NECESSARY AND HAS ACCEPTED ALL EXISTING CONDITIONS PRESENT WHETHER OR NOT THEY CONFORM EXACTLY TO THE DOCUMENTS.

WITHOUT ADVANCE WRITTEN NOTIFICATION OF UNACCEPTABLE DISCREPANCY, NO CLAIM FOR

EXTRA WILL BE CONSIDERED FOR A CLAIM OF DIFFERENCE BETWEEN DOCUMENTS AND ACTUAL CONDITIONS AFTER THE CONTRACTOR HAS ALTERED EXISTING CONDITIONS. 8. BACKFILL OF ALL UTILITY EXCAVATIONS IN STRUCTURAL AREAS INCLUDING UNDER PAVEMENTS OR

WITHIN TEN (10) FEET OF ANY BUILDING AREAS SHOULD BE CONTINUALLY MONITORED BY A REPRESENTATIVE OF THE PROJECT GEOTECHNICAL ENGINEER TO VERIFY AND DOCUMENT THAT PROPER LIFT THICKNESS, MOISTURE CONDITION, AND COMPACTIVE EFFORT ARE MAINTAINED. THE GRADING PLAN IS TO BE USED FOR GRADING PURPOSES ONLY.

9. SPOT ELEVATIONS REPRESENT FINISH PAVEMENT GRADE. CONTRACTOR SHALL REVIEW THE FOUNDATION PLAN TO DETERMINE BUILDING SUBGRADE ELEVATIONS.

10. CONTRACTOR AND OWNER SHALL AGREE TO ALL EXCAVATION AND EMBANKMENT QUANTITIES PRIOR TO CONSTRUCTION.

11. CONTRACTOR SHALL REMOVE ALL TREES AND CLEAN ALL AREAS AS DETERMINED BY THE ENGINEER OR ARCHITECT TO PERFORM ALL GRADING AND UTILITY WORK IN ACCORDANCE WITH THE DRAWINGS, GENERAL NOTES, AND PROJECT SPECIFICATIONS. RESERVE MULCH FOR SOIL EROSION MULCHING AS NECESSARY.

12. THE PROJECT HAS BEEN DESIGNED TO CONTROL EROSION AND PREVENT DAMAGE TO OTHER PROPERTY. ALL STRIPPING, EARTHWORK, AND REGRADING SHALL BE PERFORMED TO MINIMIZE EROSION. NATURAL VEGETATION SHALL BE RETAINED WHEREVER POSSIBLE. THE PROPOSED PLAN WILL ALLOW MOST ERODED MATERIALS TO BE RETAINED ON SITE.

13. CONTRACTOR SHALL SETUP AN ONSITE PRE-CONSTRUCTION MEETING WITH OWNER, ARCHITECT, EARTHWORK CONTRACTOR, AND SITE CIVIL ENGINEER PRIOR TO BEGINNING CONSTRUCTION.

14. ALL EARTHWORK AND CONSTRUCTION ACTIVITY SHALL BE PERFORMED PER THE PROJECT

 BUILDING PAD PREPARATION SHALL BE MADE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S, STRUCTURAL ENGINEER'S, AND ARCHITECT'S RECOMMENDATIONS, BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION.

16. EXCESSIVELY ORGANIC TOPSOIL AND LOOSE MATERIALS SHALL BE STRIPPED FROM THE CONSTRUCTION AREAS AND WASTED OR STOCKPILED.

17. AFTER STRIPPING OF THE TOPSOIL HAS BEEN PERFORMED, THE EXPOSED SUBGRADE SHALL BE PROOFROLLED WITH APPROVED EQUIPMENT TO IDENTIFY POCKETS OF SOFT UNSUITABLE MATERIALS. UNDER THE DIRECTION OF THE PROJECT GEOTECHNICAL ENGINEER, UNSUITABLE MATERIALS SHOULD BE REMOVED AND REPLACED WITH A WELL-COMPACTED MATERIAL.

18. THE LAST 8" OF ALL FILLS OUTSIDE OF PAVEMENT AND BUILDING AREAS SHALL BE TOPSOIL UNLESS OTHERWISE NOTED. ALL TOPSOIL FILLS SHALL BE BENCHED OR KNIT INTO FILL SLOPES AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

19. SEE SEEDING NOTES ON C2.0 FOR SEED MIXTURES TO BE USED THE GRADED AREAS.

## **SILT FENCE**

INSTALLATION

1. PUT UP BEFORE ANY OTHER WORK IS DONE.

2. INSTALL ON DOWNSLOPE SIDE(S) OF SITE WITH ENDS EXTENDED UP SIDESLOPES A SHORT DISTANCE.

3. PLACE PARALLEL TO THE CONTOUR OF THE LAND AND AT THE FLATTEST AREA AVAILABLE TO ALLOW WATER TO POND BEHIND FENCE.

4. STAKE TO BE A MINIMUM OF 32 INCHES LONG

5. MINIMUM HEIGHT SILT FENCE 16 INCHES ABOVE ORIGINAL GROUND SURFACE

6. LEAVE NO GAPS BETWEEN SECTIONS OF SILT FENCE INSPECT AND REPAIR ONCE A WEEK AND AFTER EVERY 1/2 INCH RAIN. REMOVE SEDIMENT IF DEPOSITS REACH HALF THE FENCE HEIGHT.

7. MAXIMUM DISTANCE FROM TOE OF THE SLOPE, LEAVING AT LEAST 5' DISTANCE.

8. STAKE ON DOWNHILL SIDE OF GEOTEXTILE WITH 8" OF CLOTH CLOTH BELOW THE GROUND SURFACE; EXCESS MATERIAL TO LAY ON THE BOTTOM OF 6" TRENCH

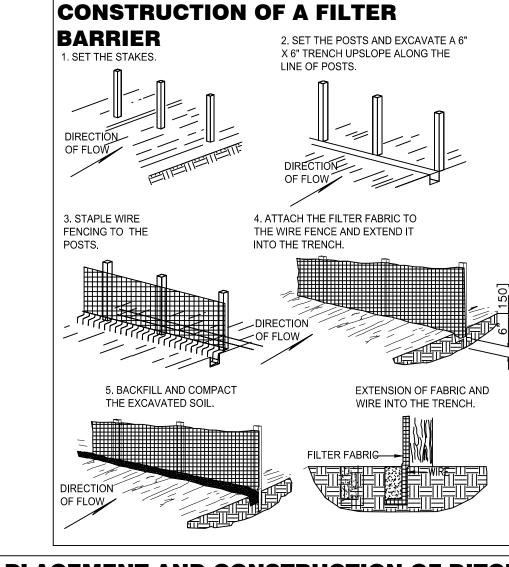
9. ODOT TYPE "C" GEOTEXTILE FABRIC OR EQUAL

10. MAINTAIN UNTIL A LAWN IS ESTABLISHED.

MATERIALS: FILTER FABRIC SHALL MEET THE REQUIREMENTS OF CMS 712.09, TYPE C. SUPPORT STAKES SHALL BE A MINIMUM OF 1.5"X1.5" [38X38], NOMINAL, AND SHALL BE HARDWOOD OF SOUND QUALITY. THE STAKES SHALL BE DRIVEN A MINIMUM OF 6" [150] BELOW THE BOTTOM OF THE FILTER FABRIC. THE MAXIMUM SPACING BETWEEN SUPPORT STAKES SHALL BE 10' [3 M].

CONSTRUCTION: THE BOTTOM OF THE FABRIC SHALL BE BURIED 6" [150] BELOW THE GROUND. THE ENDS OF ADJACENT SECTIONS OF FENCE SHALL BE OVERLAPPED WITH THE END STAKE OF EACH SECTION WRAPPED TOGETHER PRIOR TO INSTALLATION. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATIONS SHALL BE RAISED UPSLOPE TO PREVENT FLOW AROUND THE END OF THE FENCE. MAINTENANCE: THE FILTER FABRIC FENCE SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR, AND REPLACEMENT OF THE FILTER FABRIC. THE MAINTENANCE OR REPLACEMENT COST WILL BE PAID FOR BY THE DEPARTMENT UNDER UNIT BID PRICES, AGREED UNIT PRICES, OR CMS 109.04.

PAYMENT: THE COST OF ALL MATERIALS, CONSTRUCTION AND REMOVAL SHALL BE PAID FOR UNDER ITEM 207 - TEMPORARY PERIMETER FILTER FABRIC FENCE OR TEMPORARY DITCH CHECK FILTER FABRIC FENCE, LINEAR FOOT [METER].





CURB PLATE SLOPE SHALL BE 1" PER FOOT

COMPACTED BASE COARSE

CHAIR TYPE CURB AND GUTTER

Curb and Gutter concrete shall be placed separately from driveway approach and sidewalk.

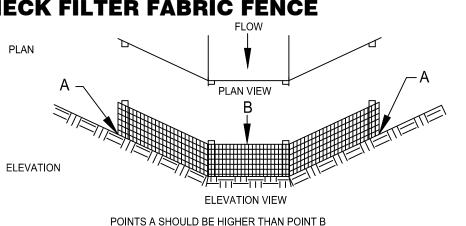
All curb and combination curb and gutter shall have control joints constructed at 10' intervals at least one half inch in depth.

It shall be the contractors responsibility to back fill voids between new gutter and povement with chips & dust or city approved equal and to compact said back fill when forms and spoil are removed in order to eliminate any and all hazards.

xpansion joints shall be placed to within 1/4" below the surface of se concrete and at intervals of 100 feet for new construction.

CONCRETE SHALL BE ODOT CLASS QC MISC. OR QC1, MINIMUM 4000 PSI STRENGTH

Expansion joints shall be placed where new sidewalk abuts old and between curb & gutter and sidewalk.



—14.25° ———— 15.75° ——

COMPACTED BASE COARSE

ROLLED FACE CURB AND GUTTER

CURB PLATE SLOPE SHALL BE 1" PER FOOT

City of Oxford

Engineering Division

STANDARD

CURB AND GUTTER

בֻּאַ

Basis of Bearing:

State Plane NAD83 (2011)

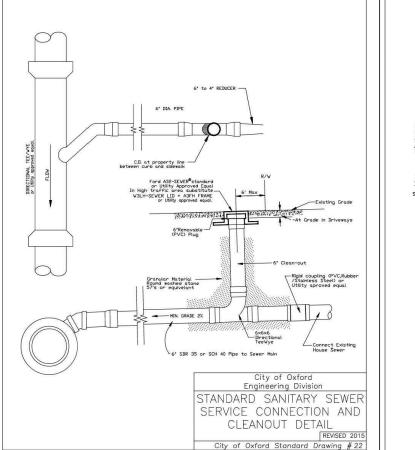
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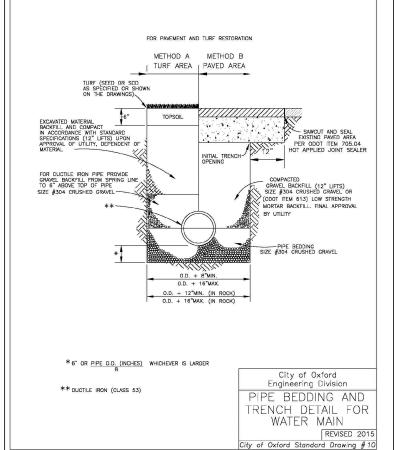
TATE OF

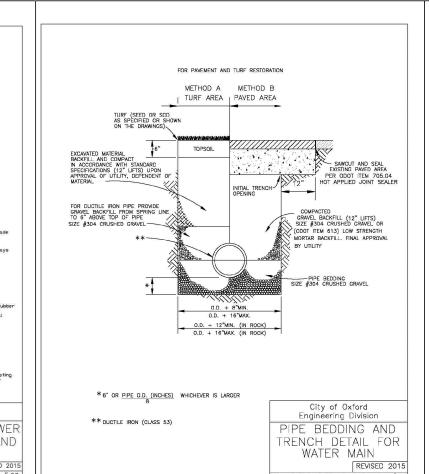
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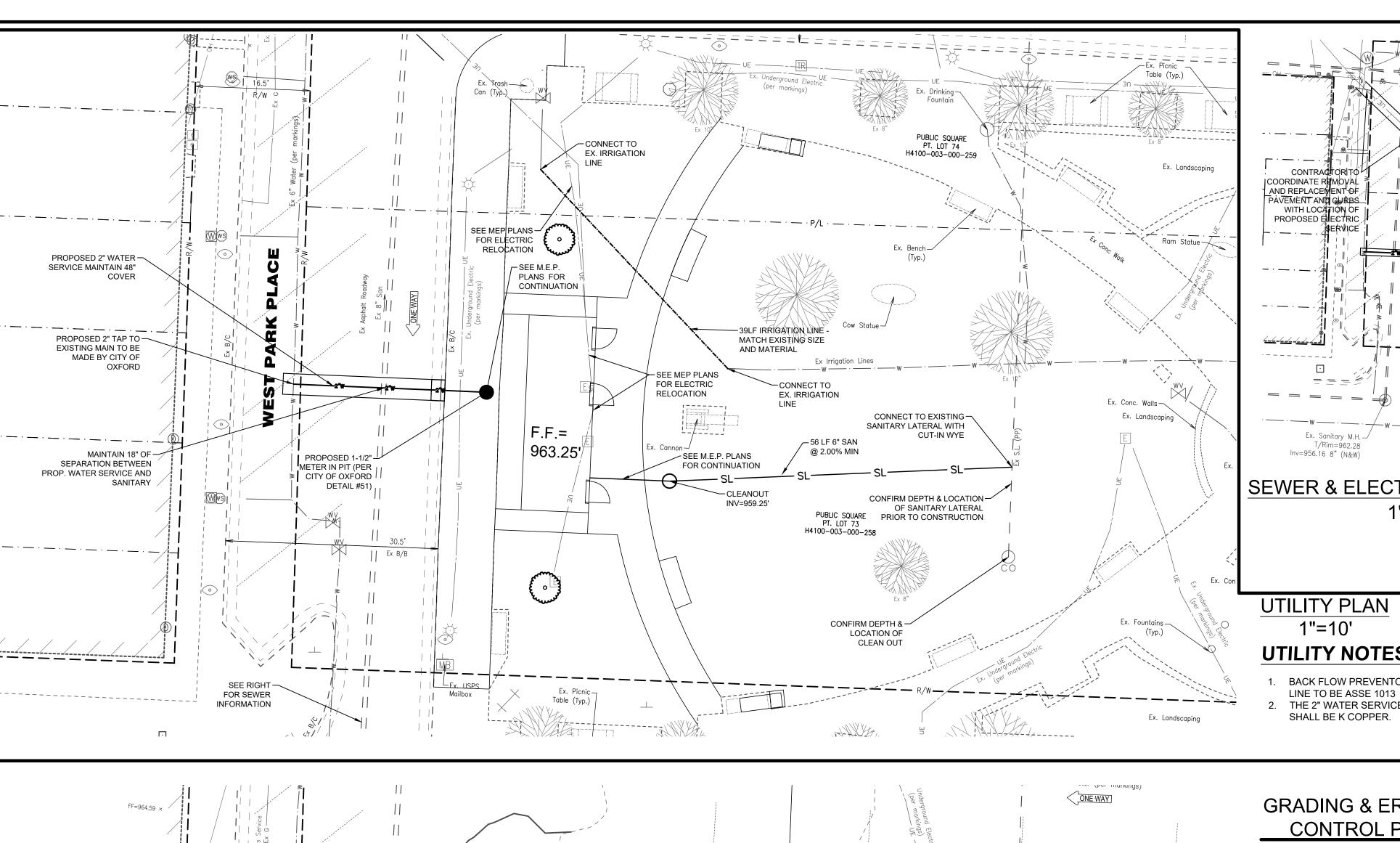
BAYER

21-0258 DETAII









Can (Typ.)

1.5%

1.4%

0.7%

1.7%

BENCHMARK #1

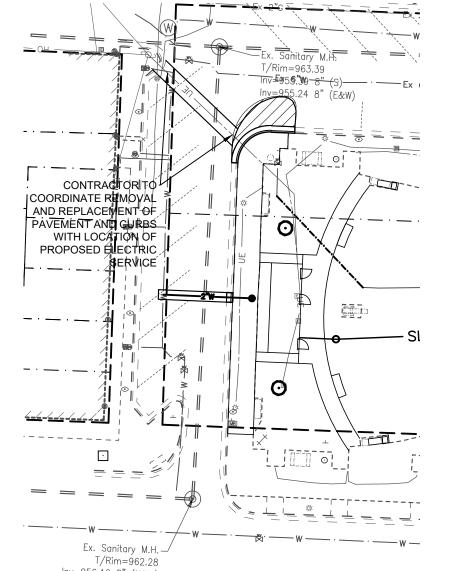
Cross Notch

N=558046.635

963.25'

(M) (WMS) WSelf

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**SEWER & ELECTRIC INFORMATION** 1"=30'

# UTILITY PLAN

## **UTILITY NOTES**

- BACK FLOW PREVENTOR FOR DOMESTIC WATER
- 2. THE 2" WATER SERVICE UNDER WEST PARK PLACE SHALL BE K COPPER.

## **GRADING & EROSION** CONTROL PLAN

- PRESERVE EXISTING VEGITATION
- SILT FENCE ————

H4100-003-000-259

Ex Irrigation Lines

PUBLIC SQUARE

H4100-003-000-258

Table (Typ.)

Ex. Landscaping

Ram Statue

WV MH

Ex. Conc. Walls

Ex. Landscaping

Ex. Fountains —

Ex. Landscaping

Regular inspection and maintenance will be provided for all erosion and sediment control practices. Permanent records of maintenance and inspections must be kept throughout the construction period. Inspections must be made a minimum of once every seven (7) days and immediately after storm events greater than 0.5 inches of rain in a 24 hour period. Provided

will be the name of inspector, major observations, date of inspection and corrective measures taken. All erosion and sediment control practices must

- conform to the specifications of Rainwater and Land Development, Ohio's standards for storm water management, land development and urban stream protection.
- Perimeter Sedimentation control and basins/traps shall be implemented as the first step of grading and within seven (7) days of initial grubbing or grading and shall continue to function until upland areas are stabilized.
- Disturbed areas which will remain unworked for a period of twenty—one (21) days or more, shall be stabilized with seeding and mulching or other approved means within seven (7) days. All disturbed areas within fifty (50) feet of an intermittent or solid blue line stream shall be stabilized within two (2) days. All areas of a site which are at final grade shall be stabilized with seeding and mulching or other approved
- means within seven (7) days. Quantities for Erosion Control may vary between detailed plans and field conditions during construction. Plan quantities are a minimum; more erosion control may be necessary due to environmental conditions.
- Sedimentation control and ditch swales are subject to change upon completion of entire set of construction drawings.
- No solid or liquid waste shall be discharged into storm water runoff.
- All earthwork shall be performed per the recommendations of the project geotechnical

## PERMANENT SEEDING (

Permanent seeding includes the seedbed preparation, seeding, and the establis used to permanently stabilize soil, prevent sediment pollution, reduce runoff by promoting infiltration, and provide n water quality benefits offered by dense vegetation

CONDITIONS WHERE PRACTICE APPLIES

\* Areas or portions of construction-sites which can be brought to final grade. Applications of permanent seeding should not be delayed while construction on limited portions of the site

Areas on that will be regraded, but will be dormant for a year or more.

PLANNING CONSIDERATIONS

Healthy dense turf will have a dramatic long lasting effect on stormwater quality as well as promoting infiltration and reducing the amount of runoff. To establish quality vegetation, careful preparation of the seedbed, soil, even

<u>Soil Compaction</u>—Stormwater quality and the amount of runoff both vary significantly with soil compaction. Non-compacted soils improve stormwater by promoting: dense vegetation.
high infiltration & lower runoff rates.

pollutant filtration, deposition & absorption, and

Construction activity can cause highly compacted soils but also offers the opportunity to improve soil condition. The best time for improving soil condition is during the establishment of permanent vegetation. It is highly recommended that subsoilers, plows or others implements be specified as part of final seedbed preparation. Use discretion in slip-prone areas.

Minimum Soil Conditions.--Vegetation cannot be expected to stabilize soil that is unstable due to its texture, structure, water movement or excessively steep slope. The following minimum soil conditions are needed for the establishment and maintenance of a long-lived vegetation cover. If these conditions cannot be met, see the Standards and Specifications for Resoiling. Soils must include enough fine-grained material to hold at least a moderate amount of available moisture. The soil must be free from material that is toxic or otherwise harmful to plant growth.

Seed Mix	Seeding Rate		Nistan
Seed IVIIX	lb./ac.	lb./1,000 ft. <sup>2</sup>	Notes:
	Gen	eral Use	
Creeping Red Fescue Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	1/2-1 1/4-1/2 1/4-1/2	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
	Steep Bank	s or Cut Slopes	
Tall Fescue	40	1	
Crown Vetch Tall Fescue	10 20	1/4 1/2	Do not seed later than August
Flat Pea Tall Fescue	20 20	1/2 1/2	Do not seed later than August
	Road Dit	ches and Swales	S
Tall Fescue	40	1	
Dwarf Fescue Kentucky Bluegrass	90 5	2 1/4	
	ĺ	Lawns	
Perennial Ryegrass Kentucky Bluegrass	60 60	1 1/2 1 1/2	
Creeping Red Fescue Kentucky Bluegrass	60 60	1 1/2 1 1/2	For shaded areas

laintenance for Perma ertilization and Mowin		igs				
Mixture	Formula	lb./ac.	lb./1,000 sq. ft.	Time	Mowing	
Creeping Red Fescue Ryegrass Kentucky Bluegrass	10-10-10	500	12		Not closer than 3"	
Tall Fescue	10-10-10	500	12	Fall, yearly or as needed	Not closer than 4"	
Dwarf Fescue	10-10-10	500	12		Not closer than 2"	
Crown Vetch Fescue	0-20-20	400	10	Spring, yearly following establishment	Do not mow	
Flat Pea Fescue	0-20-20	400	10	and every 4-7 yrs. thereafter	Do not mow	
lote: Following soil test reco	mmendations is r	preferred to fertil	izer rates shown	above.		

- 1. A subsoiler, plow or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing
- 2. The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation
- 3. Resoil shall be applied where needed to establish vegetation.
- SEEDBED PREPARATION
- Lime--Agricultural group limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 lb./1,000 sq. ft. or 2 tons/ac.
- Fertilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb./1,000 sq. ft. or 500 lb./ac. of 10-10-10- or 12-12-12 analysis. field implement to a depth of 3 in. On sloping land the soil shall be worked on the contour
- SEEDING DATES AND SOIL CONDITIONS Seeding should be done March 1 to May 31 or August 1 to September 30. These seeding dates are ideal
- but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season. Tillage/seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.
- Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seeding shall be mulched.
- Straw--If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/ac. or 90 lb./1,000 sq. ft.(two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000 sq. ft. sections and spread
- Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb./ac. or 46 lb./1,000 sq. ft. Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations
- or wood chips applied at 6 tons/ac.
- Straw mulch shall be anchored immediately to minimize loss by wind or water. Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into
- the soil. Straw mechanically anchored shall not be finely chopped by, generally, be left longer than 6 in. Permanent seeding shall not be considered established for at least 1 full vr. from the time
- of planting. Seeded areas shall be inspected for failure and vegetation conditions, it ma be necessary to irrigate, fertilize, overseed, or reestablish plantings in order to provider permanent vegetation for adequate erosion control
- Maintenance fertilization rates shall be established by soil test recommendations or by using the rates shown in the following table.

## TEMPORARY SEEDING (1)

CONDITIONS WHERE PRACTICE APPLIES

are quick growing are seeded and usually mulched to provide prompt, temporary soil stabilization. It effectively minimizes the area of a construction-site prone to erosion and should be used everywhere the equence of construction operations allows vegetation to be established.

effective and practical on construction-sites, its liberal use is highly recommended.

- emporary seeding should be applied on exposed soil where additional work (grading,etc.) is not scheduled for more than 14 days. Permanent seeding should be applied if the areas will be idle for more than a year
- This practice has the potential to drastically reduce the amount of sediment eroded from a construction-site. Control efficiencies greater than 90% will be achieved with proper applications of temporary seeding.

  Because practices used to trap sediment are usually much less effective, temporary seeding is to be used even on areas where runoff is treated by sediment trapping practices. Because temporary seeding is highly

Temporary Seeding Spe	cies Selection			
Seeding Dates	Species	Lb./1,000 ft. 2	Per Acre	
March 1 to August 15	Oats	3	4 bushel	
	Tall Fescue	1	40 lb.	
	Annual Ryegrass	1	40 lb.	
	Perennial Ryegrass	1	40 lb.	
	Tall Fescue	1	40 lb.	
	Annual Ryegrass	1	40 lb.	
August 16 to November 1	Rye	3	2 bushel	
	Tall Fescue	1	40 lb.	
	Annual Ryegrass	1	40 lb.	
	Wheat	3	2 bushel	
	Tall Fescue	1	40 lb.	
	Annual Ryegrass	1	40 lb.	
	Perennial Ryegrass	1	40 lb.	
	Tall Fescue	1	40 lb.	
	Annual Ryegrass	1	40 lb.	
November 1 to Spring Seeding  Use mulch only, sodding practices or dormant seeding.				

- Structural erosion- and sediment-control practices such as diversions and sediment traps shall be nstalled and stabilized with temporary seeding prior to grading the rest of the construction-site. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 14 days or more. These idle areas should be seeded as soon as possible after grading or shall be seeded within 7 days. Several applications of temporary seeing are necessary on typical
- The seedbed should be pulverized and loose to ensure the success of establishing vegetation However, temporary seeding shall not be postponed if ideal seedbed preparation is not possible.

lote: Other approved seed species may be substituted

- Soil Amendments--Applications of temporary vegetation shall establish adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer.
- Seeding Method--Seed shall be applied uniformly with a cyclone seeder, drill cultipacker seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

#### MULCHING TEMPORARY SEEDING

1. Applications of temporary seeding shall include mulch which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization.

spread uniformly by hand or mechanically so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section. Hydroseeders--If wood cellulose fiber is used, it shall be used at 2,000 lb/ac. or

manufacturer's recommendations or wood chips applied at 6 tons/ac.

46 lb./1,000 sq. ft. Other--Other acceptance mulches include mulch mattings applied according to

Straw--If straw is used, it shall be unrotted small-grain straw applied at the rate

of 2 tons/ac. or 90 lb./1,000 sq. ft. (two to three bales). The mulch shall be

- 3. Straw mulch shall be anchored immediately to minimize loss by wind or water.
  - Mechanical--A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but, generally, be left longer than 6 in. Mulch Nettings--Nettings shall be used according to the manufacturer's
  - recommendations. Netting may be necessary to hold mulch in place in areas of concentration runoff and on critical slopes. Asphalt Emulsion--Asphalt shall be applied as recommended by the
  - manufacturer or at the rate of 160 gal./ac. Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the
  - Wood-Cellulose Fiber--Wood-cellulose fiber binder shall be applied at a net dry veight of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal

## DORMANT SEEDINGS.

- Seeding shall not be planted from October 1 through November 20. During this period the seeds are likely to germinate but probably will not be able to survive the winter.
- The following methods may be used for "Dormant Seeding":
- From October 1 through November 20, prepare the seedbed, add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50%
- From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the seeding rates by 50% for this type of seeding. Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder
- (slurry may include seed and fertilizer) on a firm, moist seedbed. Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where feasible.
- Mulch Nettings—Nettings shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
- Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160 gal./ac. Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tac), DAC-70, Petroset, Terra Tack or equal may be used at rates recommended by the
- Wood Cellulose Fiber--Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb./ac. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb./100 gal. of wood cellulose fiber.
- 1. Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed germination and plant growth.
- 2. Excessive irrigation rates shall be avoided and irrigation monitored to prevent erosion and damage from runoff.



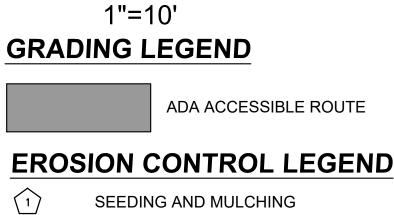
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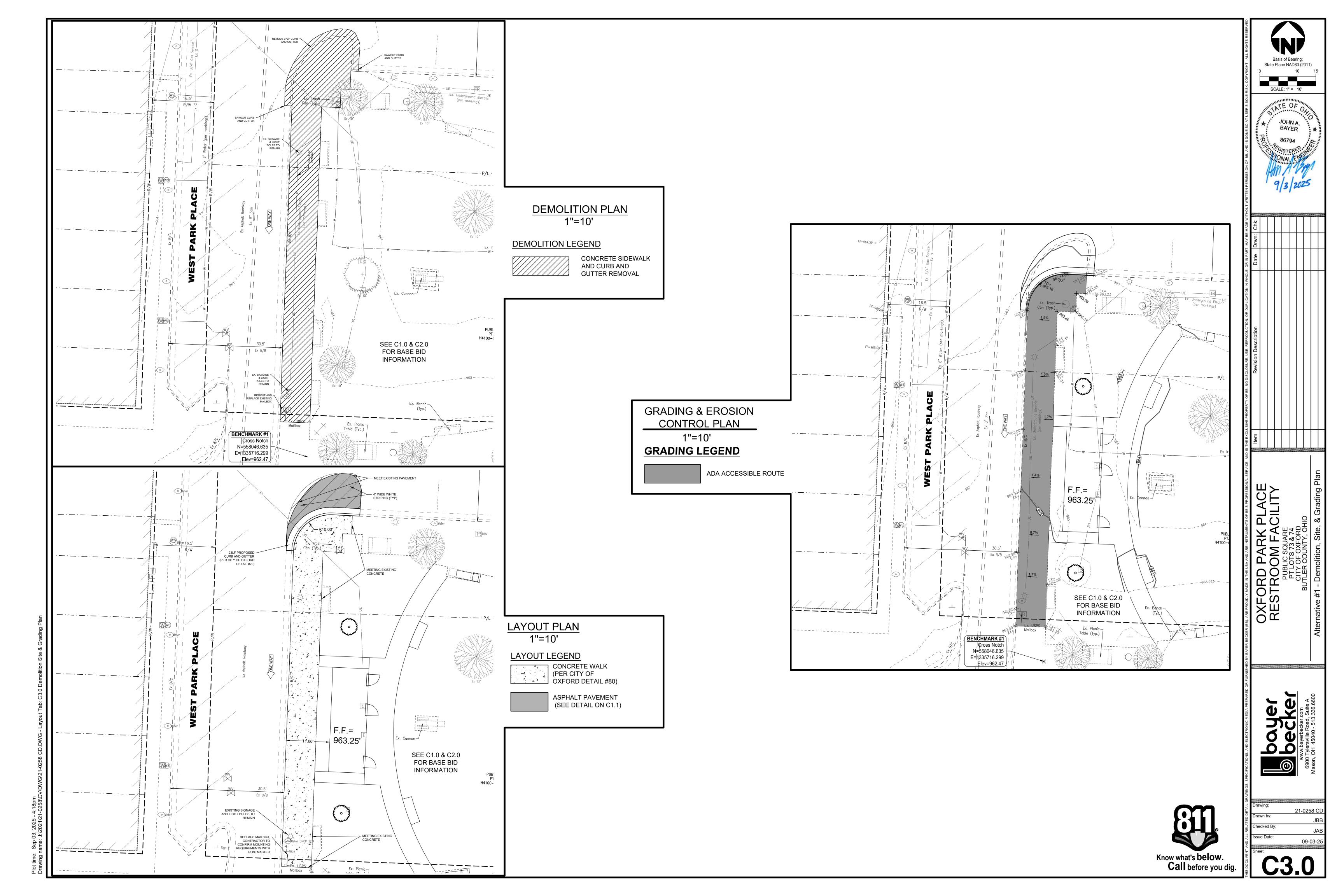
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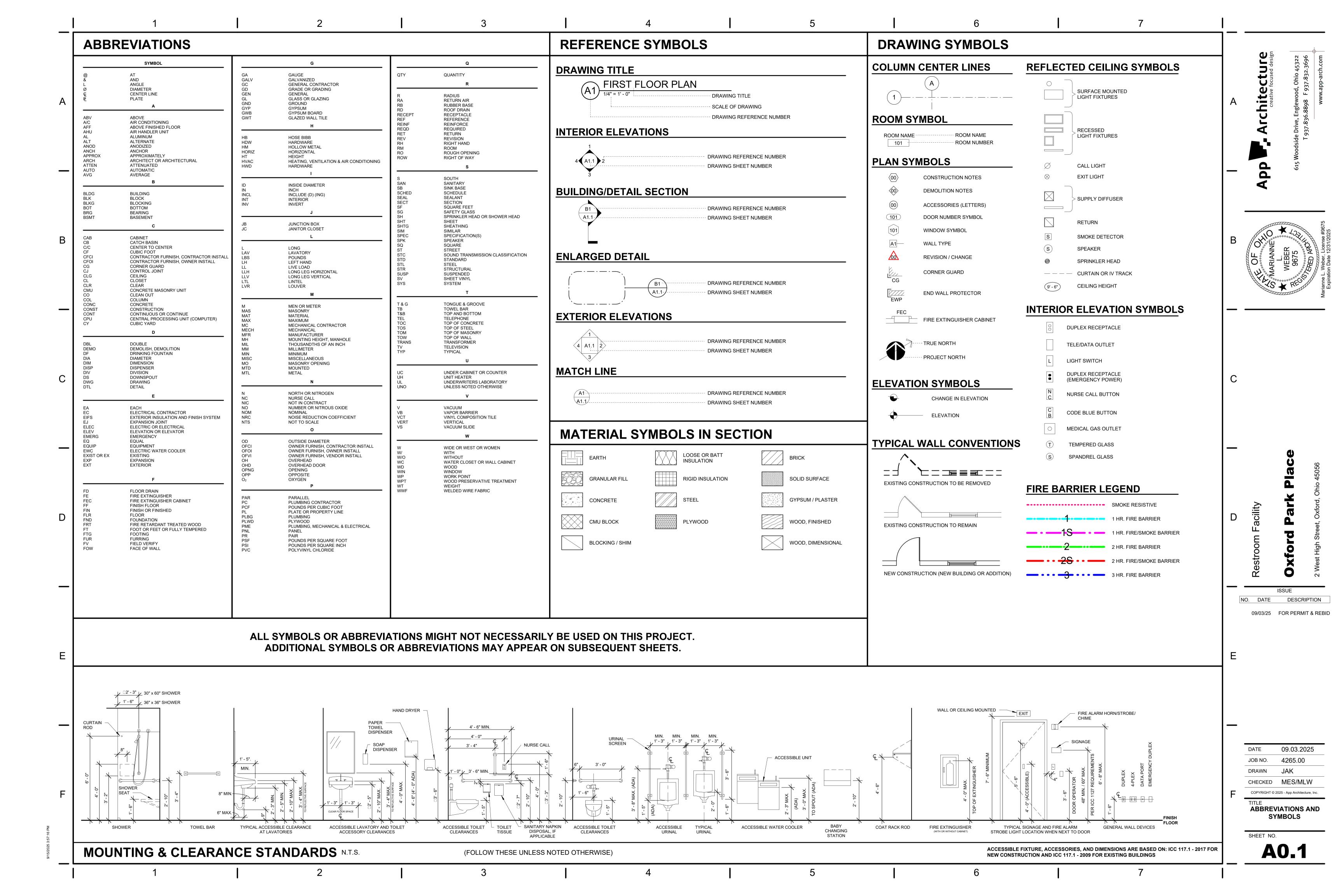
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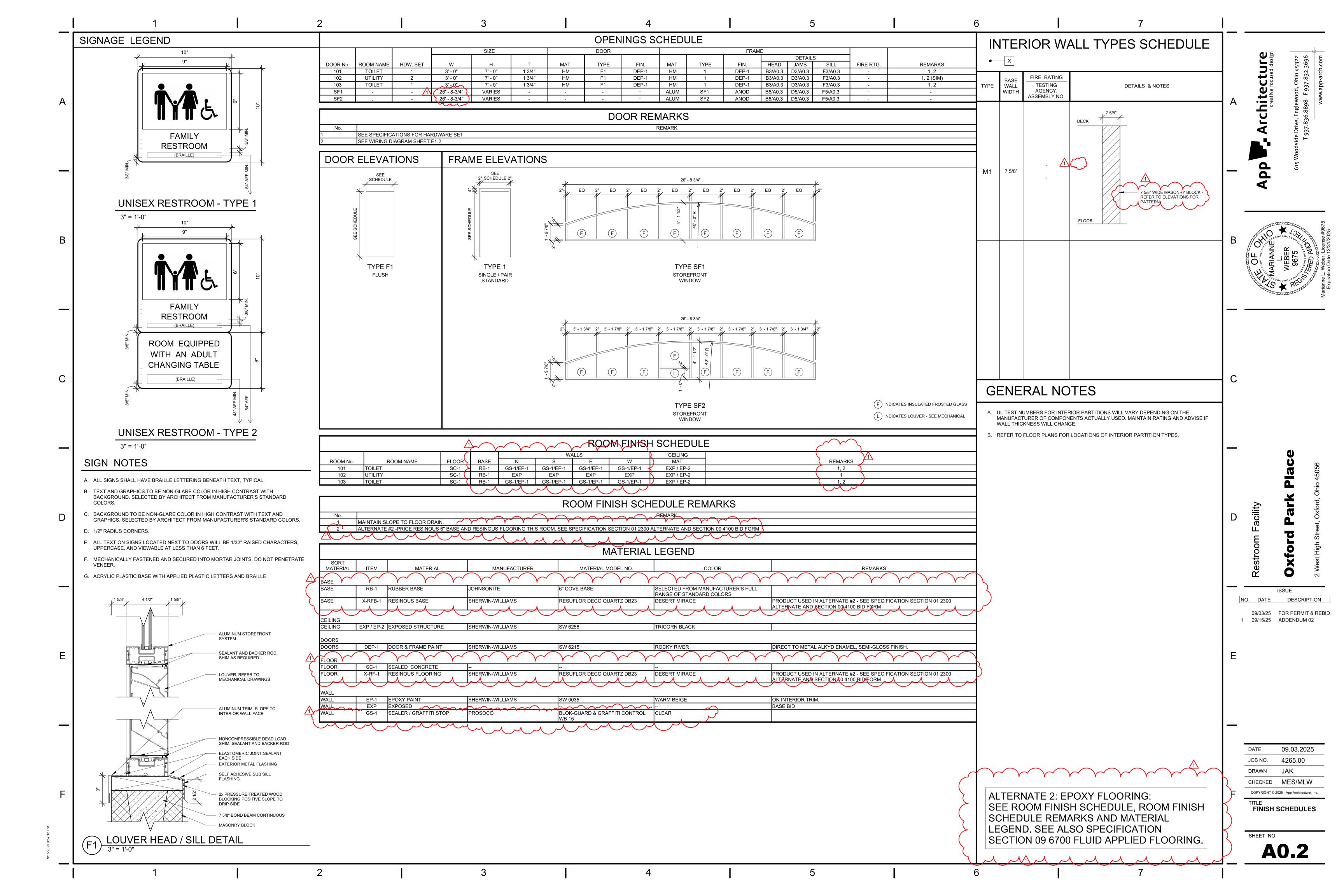
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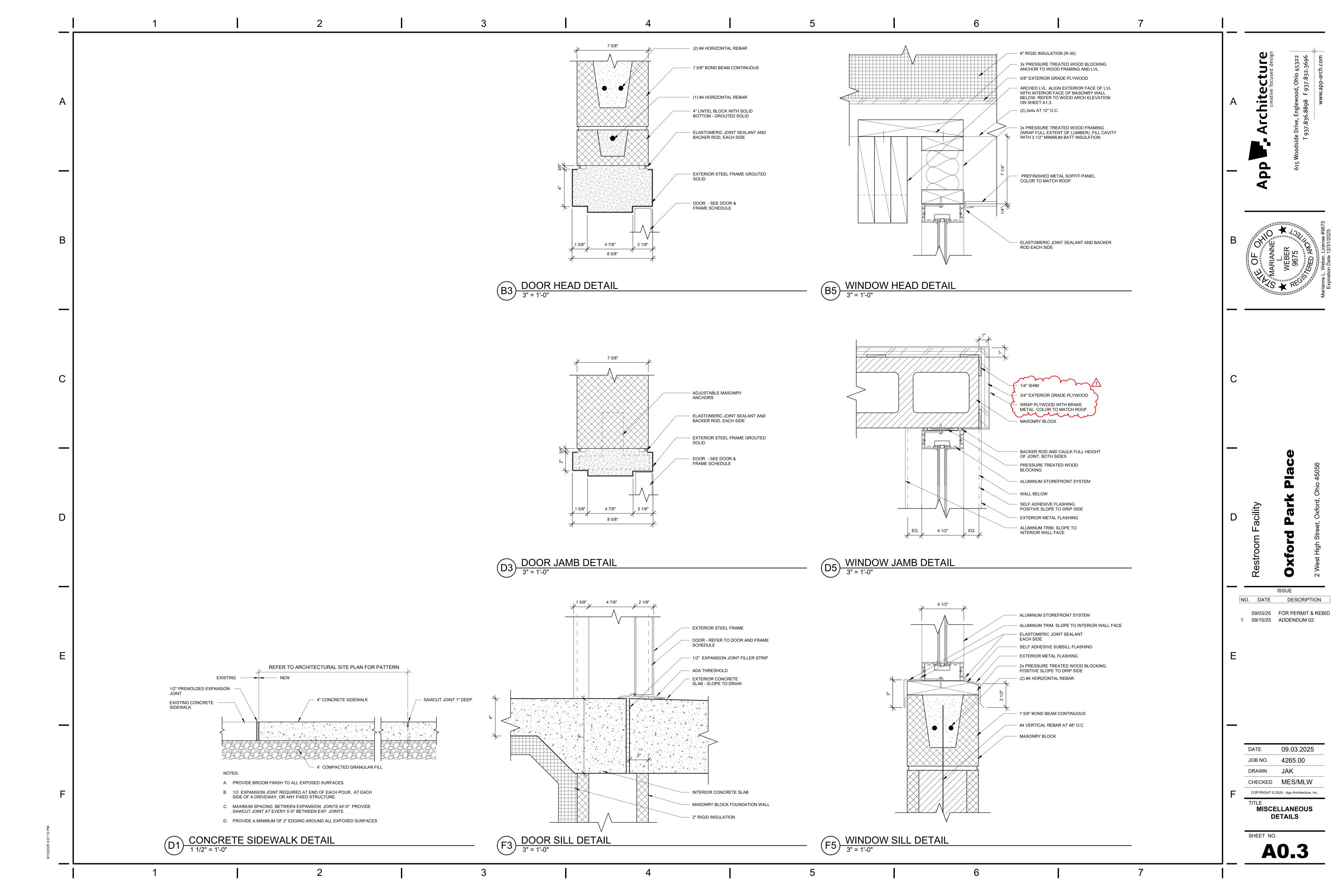
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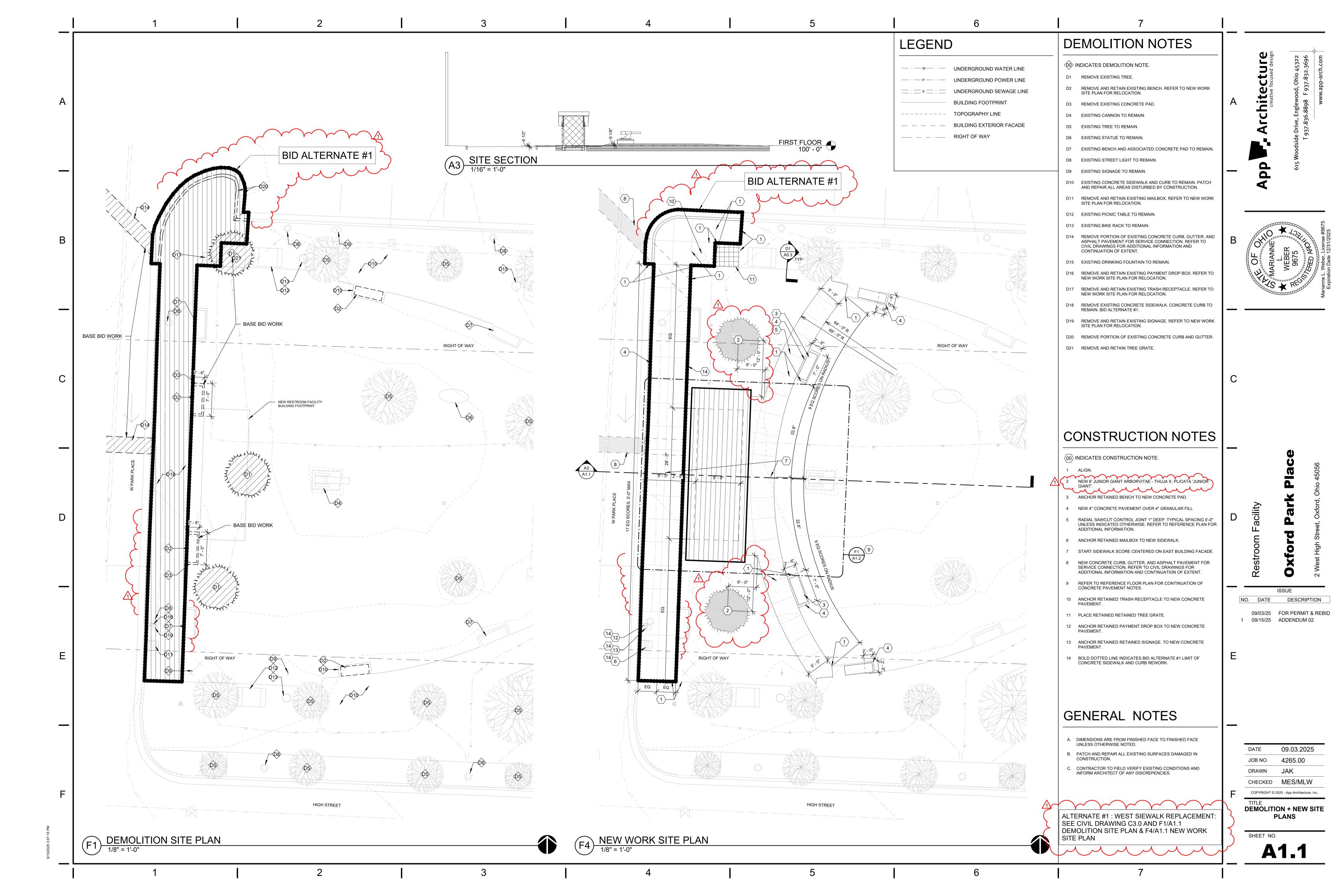


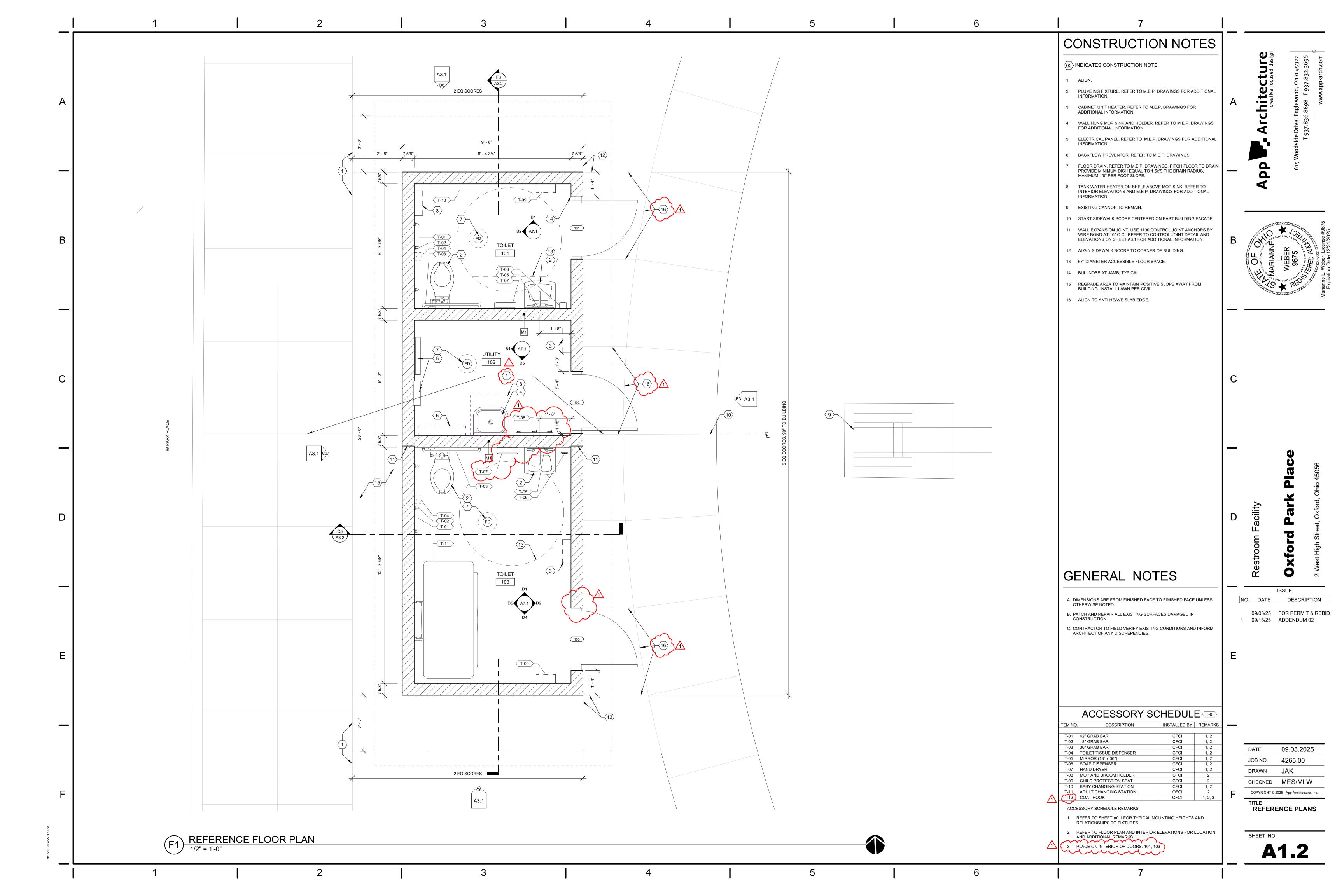


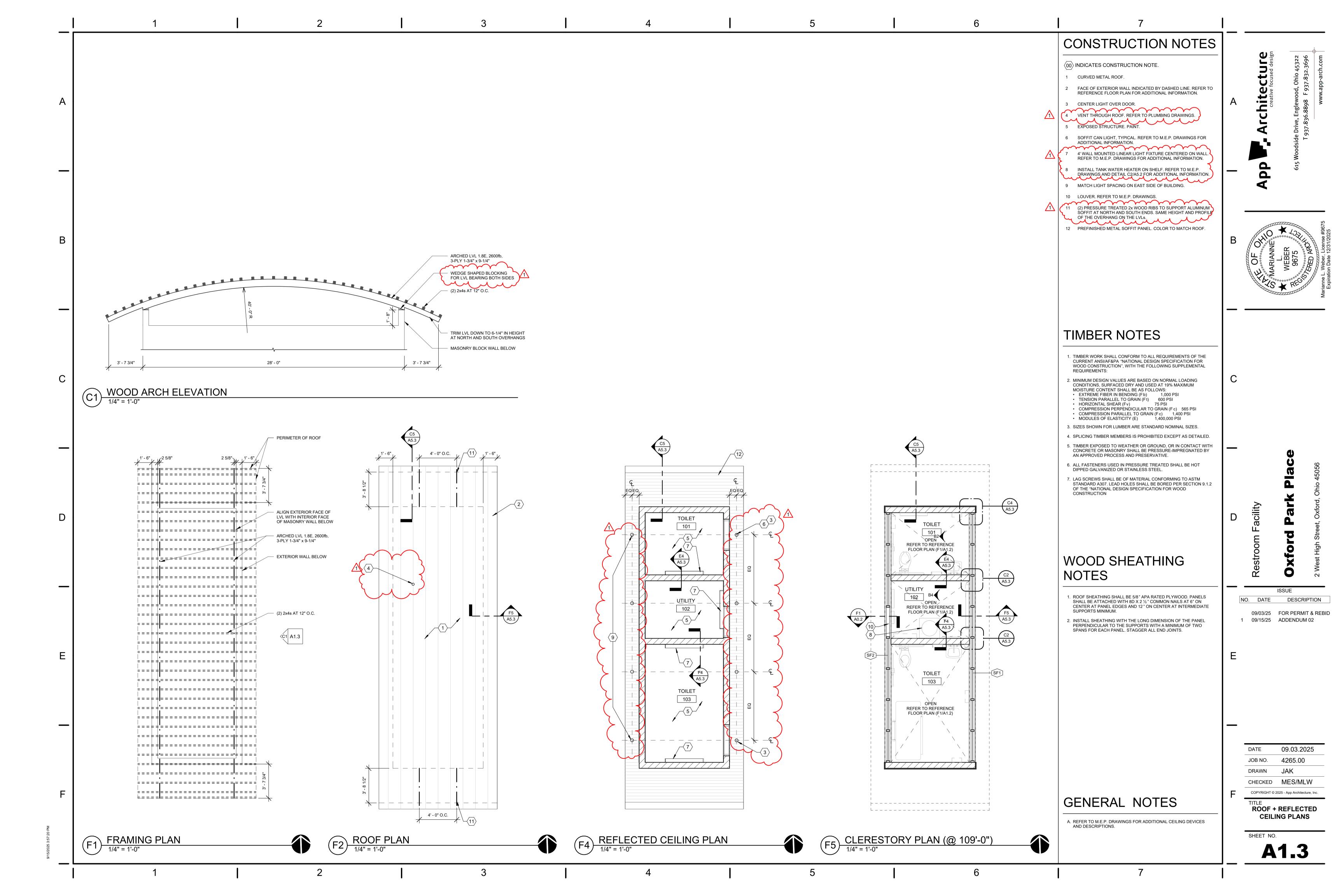


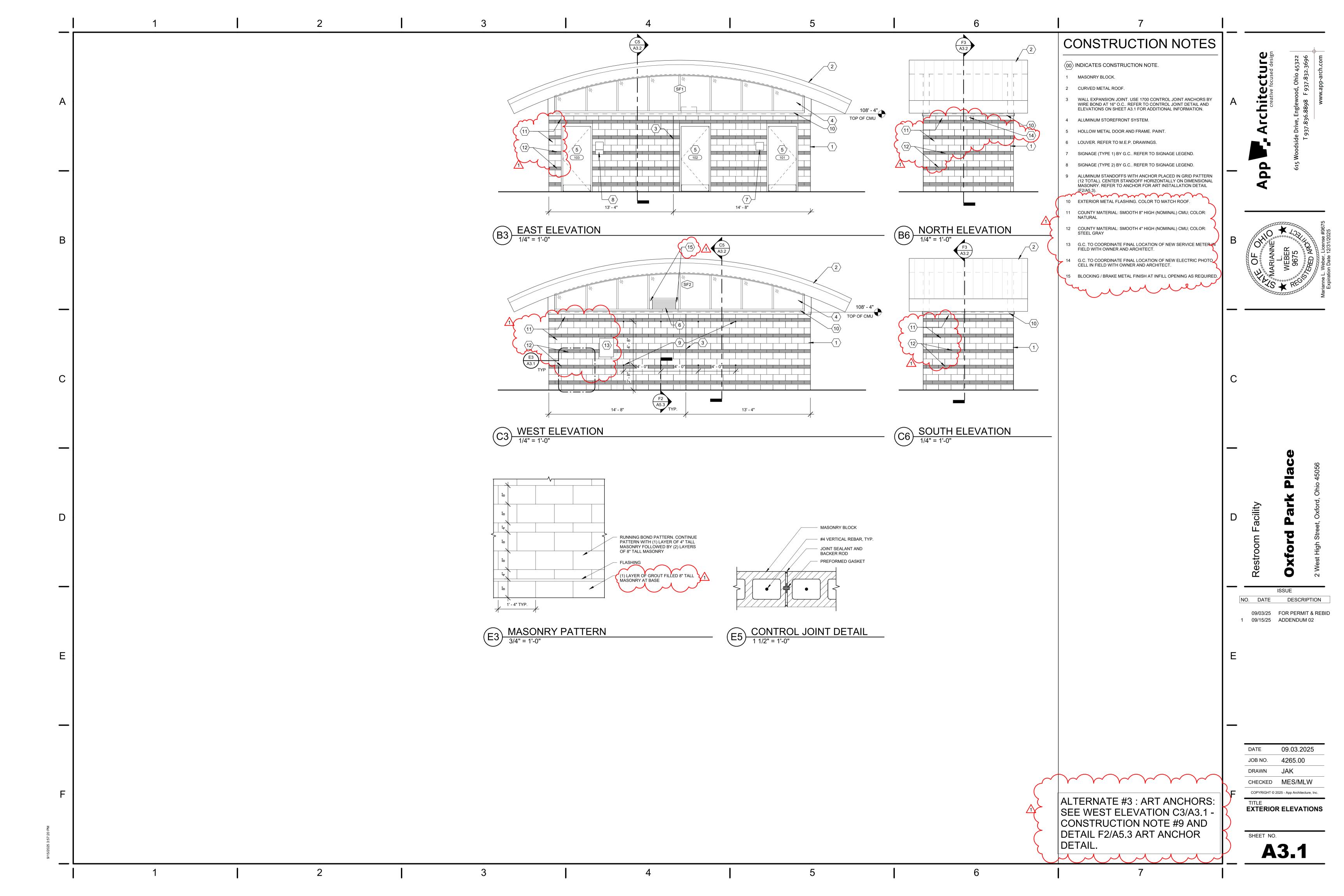


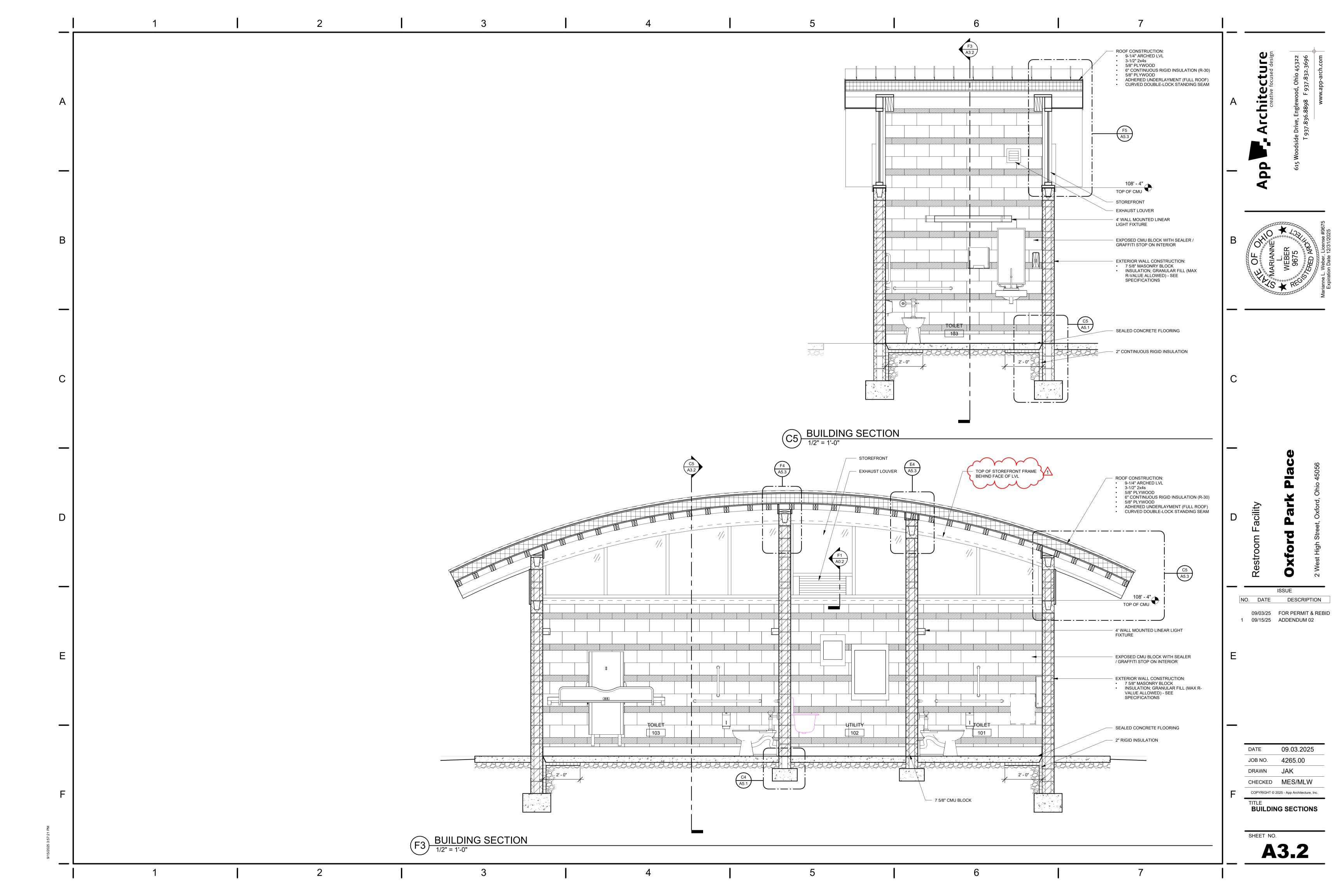


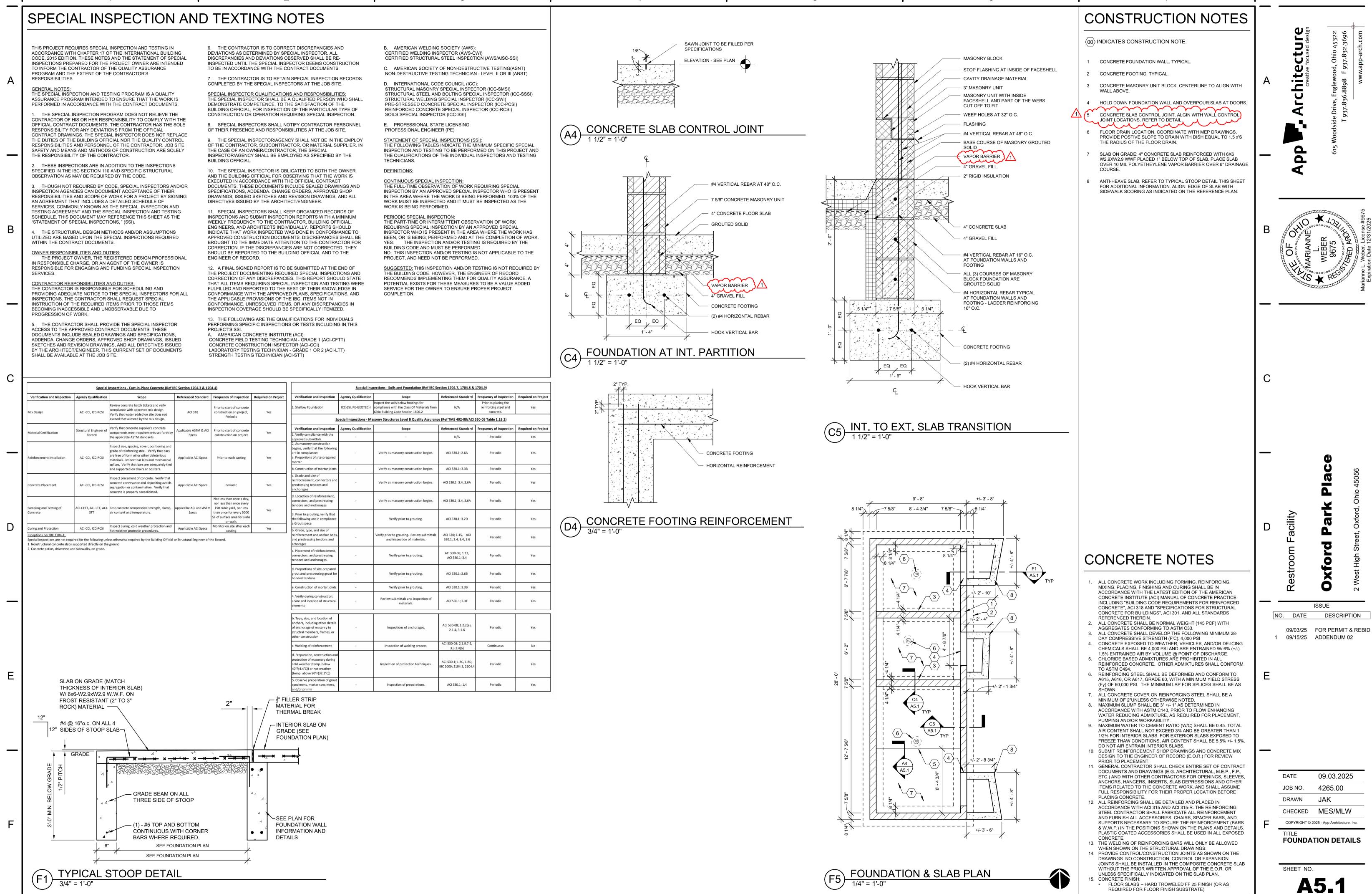


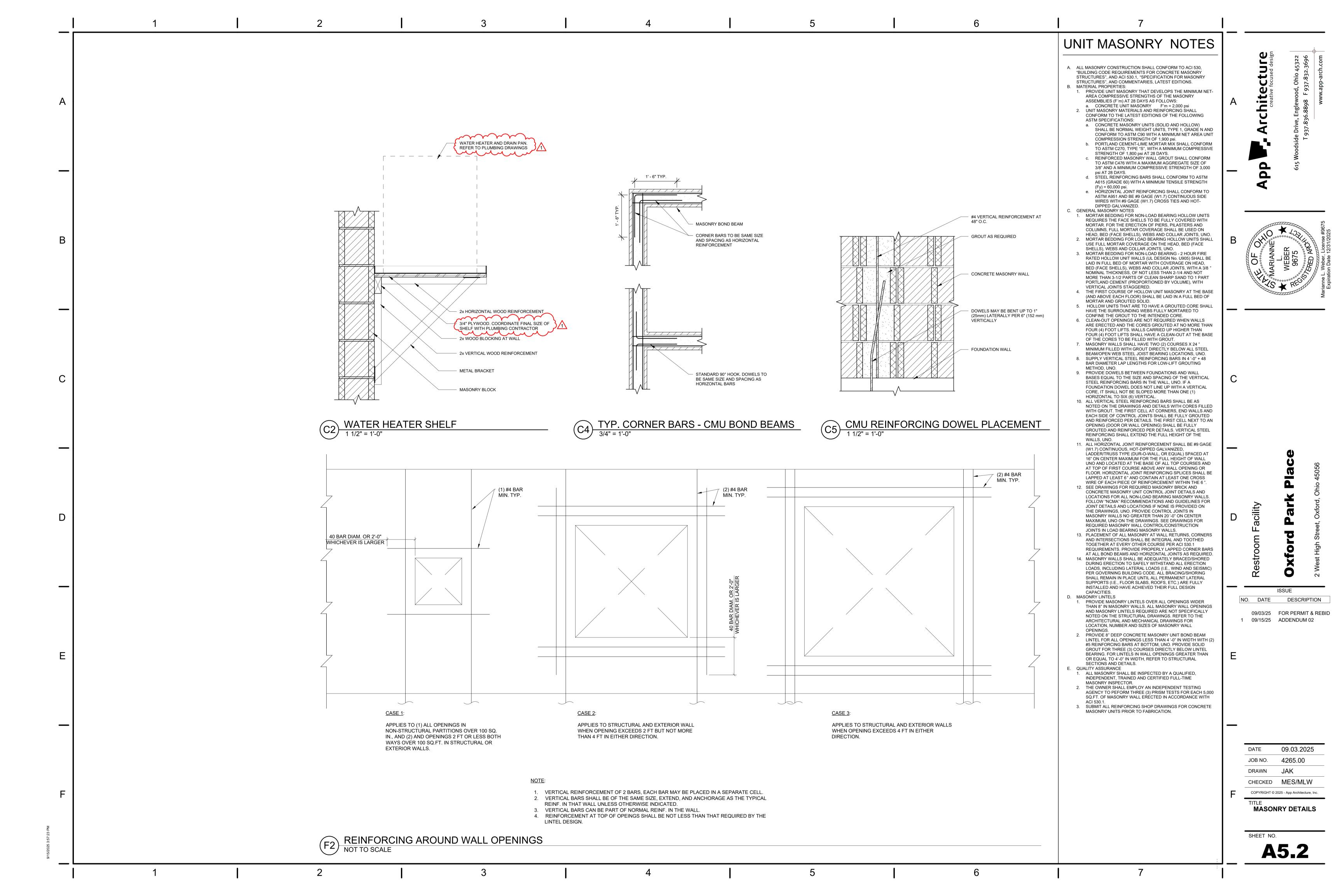


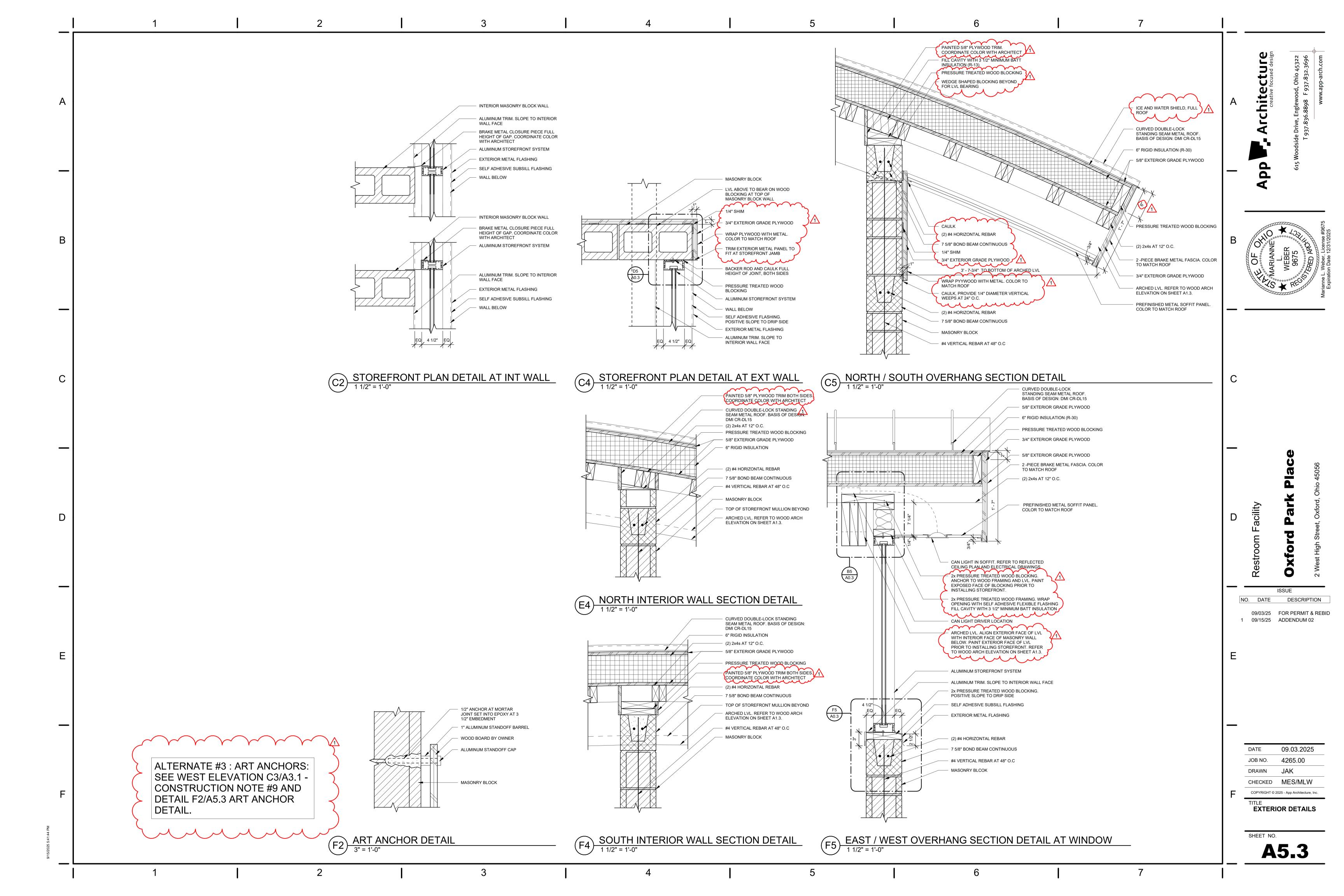


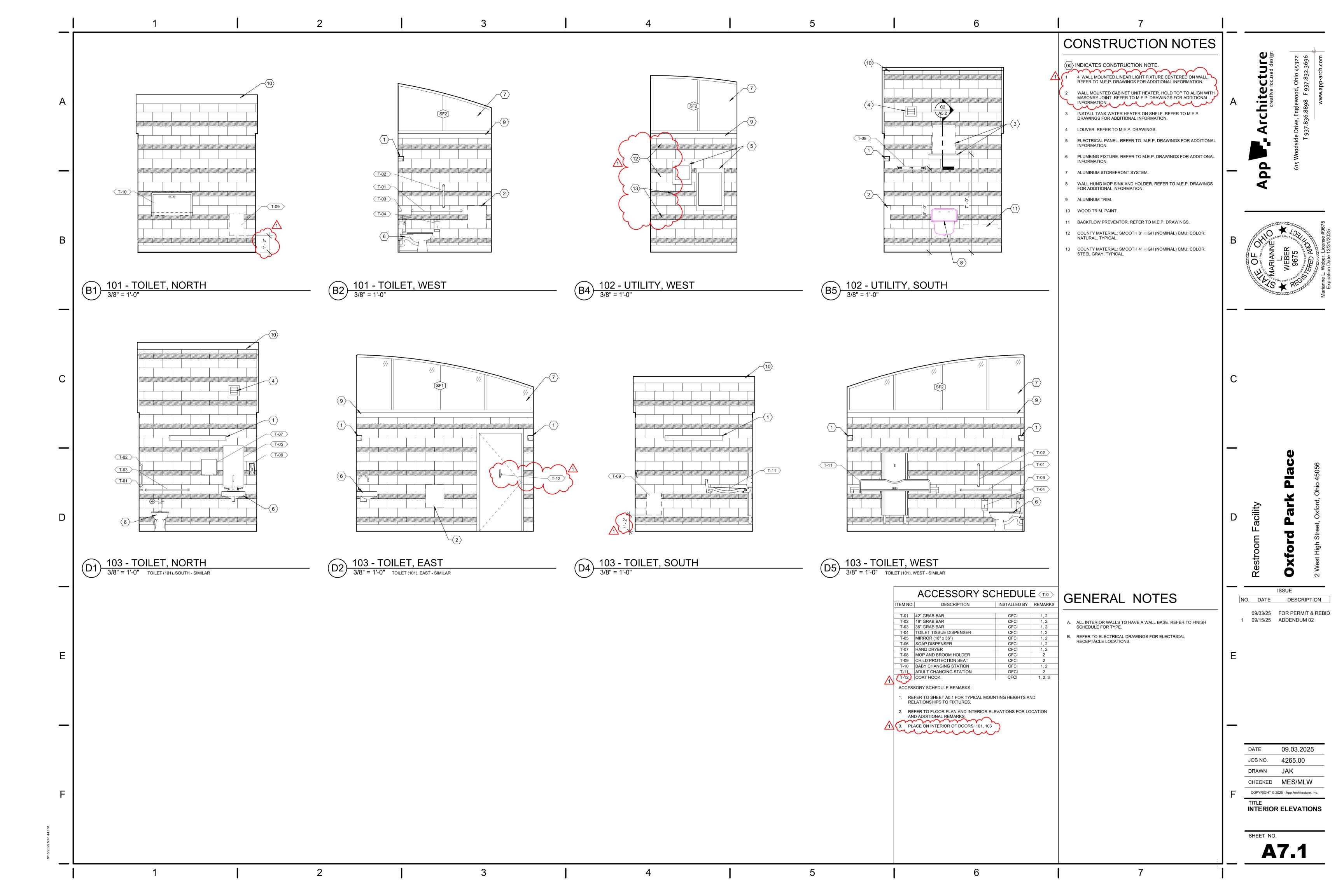


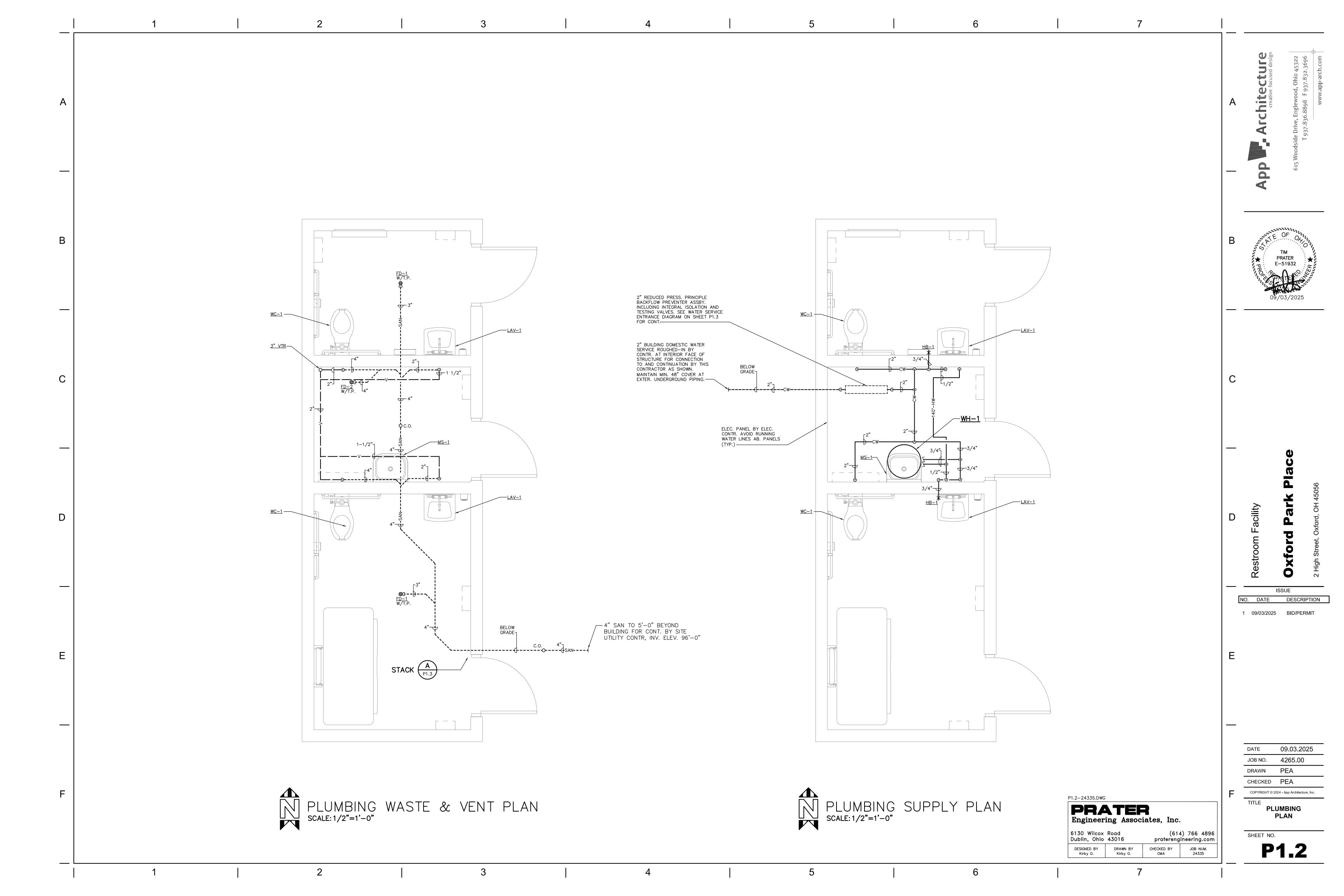


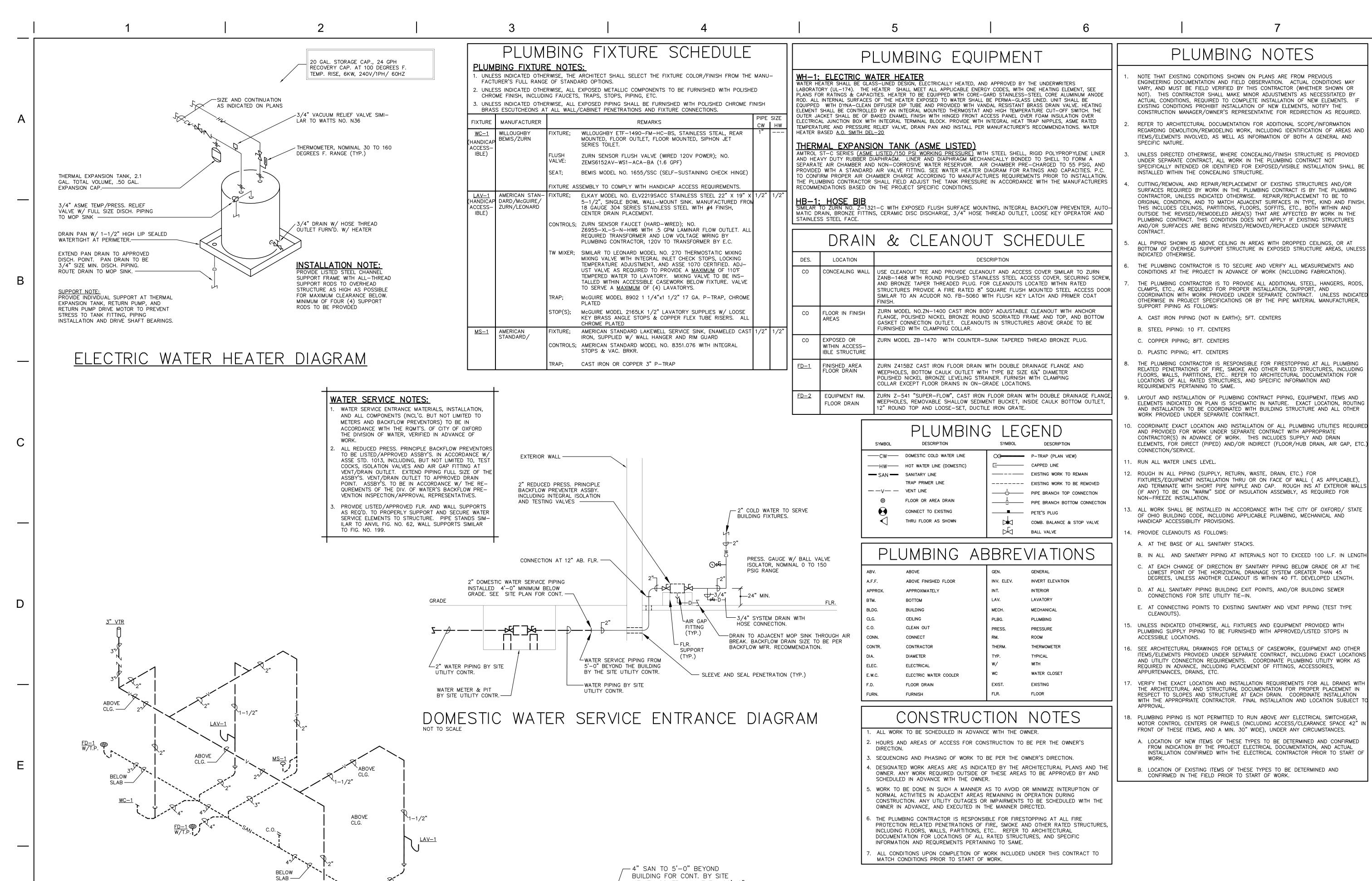












UTILITY CONTR, INV. ELEV. 96'-0"

-----SAN-----

# PLUMBING NOTES

- NOTE THAT EXISTING CONDITIONS SHOWN ON PLANS ARE FROM PREVIOUS ENGINEERING DOCUMENTATION AND FIELD OBSERVATION. ACTUAL CONDITIONS MAY VARY, AND MUST BE FIELD VERIFIED BY THIS CONTRACTOR (WHETHER SHOWN OR NOT). THIS CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS AS NECESSITATED BY ACTUAL CONDITIONS, REQUIRED TO COMPLETE INSTALLATION OF NEW ELEMENTS. EXISTING CONDITIONS PROHIBIT INSTALLATION OF NEW ELEMENTS, NOTIFY THE
- CONSTRUCTION MANAGER/OWNER'S REPRESENTATIVE FOR REDIRECTION AS REQUIRED. REFER TO ARCHITECTURAL DOCUMENTATION FOR ADDITIONAL SCOPE/INFORMATION REGARDING DEMOLITION/REMODELING WORK, INCLUDING IDENTIFICATION OF AREAS AND ITEMS/ELEMENTS INVOLVED, AS WELL AS INFORMATION OF BOTH A GENERAL AND
- UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE PLUMBING CONTRACT NOT SPECIFICALLY INTENDED OR IDENTIFIED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE
- CUTTING/REMOVAL AND REPAIR/REPLACEMENT OF EXISTING STRUCTURES AND/OR SURFACES REQUIRED BY WORK IN THE PLUMBING CONTRACT IS BY THE PLUMBING CONTRACTOR, UNLESS INDICATED OTHERWISE. REPAIR/REPLACEMENT TO BE TO ORIGINAL CONDITION, AND TO MATCH ADJACENT SURFACES IN TYPE, KIND AND FINISH. THIS INCLUDES CEILINGS, PARTITIONS, FLOORS, SOFFITS, ETC., BOTH WITHIN AND OUTSIDE THE REVISED/REMODELED AREA(S) THAT ARE AFFECTED BY WORK IN THE PLUMBING CONTRACT. THIS CONDITION DOES NOT APPLY IF EXISTING STRUCTURES AND/OR SURFACES ARE BEING REVISED/REMOVED/REPLACED UNDER SEPARATE
- ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS, OR AT BOTTOM OF OVERHEAD SUPPORT STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS
- THE PLUMBING CONTRACTOR IS TO SECURE AND VERIFY ALL MEASUREMENTS AND
- THE PLUMBING CONTRACTOR IS TO PROVIDE ALL ADDITIONAL STEEL, HANGERS, RODS, CLAMPS, ETC., AS REQUIRED FOR PROPER INSTALLATION, SUPPORT, AND COORDINATION WITH WORK PROVIDED UNDER SEPARATE CONTRACT. UNLESS INDICATED OTHERWISE IN PROJECT SPECIFICATIONS OR BY THE PIPE MATERIAL MANUFACTURER,
- A. CAST IRON PIPING (NOT IN EARTH); 5FT. CENTERS
- B. STEEL PIPING: 10 FT. CENTERS
- C. COPPER PIPING; 8FT. CENTERS
- THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC.. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.
- LAYOUT AND INSTALLATION OF PLUMBING CONTRACT PIPING, EQUIPMENT, ITEMS AND ELEMENTS INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURE AND ALL OTHER WORK PROVIDED UNDER SEPARATE CONTRACT.
- COORDINATE EXACT LOCATION AND INSTALLATION OF ALL PLUMBING UTILITIES REQUIRED AND PROVIDED FOR WORK UNDER SEPARATE CONTRACT WITH APPROPRIATE CONTRACTOR(S) IN ADVANCE OF WORK. THIS INCLUDES SUPPLY AND DRAIN ELEMENTS, FOR DIRECT (PIPED) AND/OR INDIRECT (FLOOR/HUB DRAIN, AIR GAP, ETC.
- 12. ROUGH IN ALL PIPING (SUPPLY, RETURN, WASTE, DRAIN, ETC.) FOR FIXTURES/EQUIPMENT INSTALLATION THRU OR ON FACE OF WALL ( AS APPLICABLE). AND TERMINATE WITH SHORT PIPE NIPPLE AND CAP. ROUGH INS AT EXTERIOR WALLS (IF ANY) TO BE ON "WARM" SIDE OF INSULATION ASSEMBLY, AS REQUIRED FOR
- 13. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF OXFORD/ STATE OF OHIO BUILDING CODE, INCLUDING APPLICABLE PLUMBING, MECHANICAL AND

- B. IN ALL AND SANITARY PIPING AT INTERVALS NOT TO EXCEED 100 L.F. IN LENGTH
- DEGREES, UNLESS ANOTHER CLEANOUT IS WITHIN 40 FT. DEVELOPED LENGTH. D. AT ALL SANITARY PIPING BUILDING EXIT POINTS, AND/OR BUILDING SEWER
- CONNECTIONS FOR SITE UTILITY TIE-IN.
- E. AT CONNECTING POINTS TO EXISTING SANITARY AND VENT PIPING (TEST TYPE
- 15. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN
- SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CASEWORK, EQUIPMENT AND OTHER ITEMS/ELEMENTS PROVIDED UNDER SEPARATE CONTRACT, INCLUDING EXACT LOCATIONS AND UTILITY CONNECTION REQUIREMENTS. COORDINATE PLUMBING UTILITY WORK AS REQUIRED IN ADVANCE, INCLUDING PLACEMENT OF FITTINGS, ACCESSORIES, APPURTENANCES, DRAINS, ETC.
- THE ARCHITECTURAL AND STRUCTURAL DOCUMENTATION FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND STRUCTURE AT EACH DRAIN. COORDINATE INSTALLATION WITH THE APPROPRIATE CONTRACTOR. FINAL INSTALLATION AND LOCATION SUBJECT
- PLUMBING PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND A MIN. 30" WIDE), UNDER ANY CIRCUMSTANCES.
- A. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF
- B. LOCATION OF EXISTING ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED IN THE FIELD PRIOR TO START OF WORK.

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**PLUMBING NOTES & DETAILS** 

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5. USE OF TRAPEZE HANGERS DO NOT PERMIT THE ELIMINATION OF THE

6. PIPING TO BE SUPPORTED ACCORDING TO THE APPLICABLE ADOPTED

PLUMBING CODE OR MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS

OR ELSEWHERE AS REQUIRED IN ACCORDANCE WITH GOOD WORKMANSHIP.

NO PIPE SHALL BE SUPPORTED FROM ANOTHER PIPE. ALL HANGERS SHALL

BE PLUMBED BEFORE INSULATION IS APPLIED AND ALL HANGERS SHALL BE

DOUBLE NUTTED. ALL HANGERS SHALL MEET THE OHIO PLUMBING CODE

MOST STRINGENT. SUPPORT AT INTERVALS NOT TO EXCEED SPACING LISTED

PIPING INSULATION TO NOT BE CONTINUOUS THRU THE HANGER.

REQUIREMENTS.

SUCH AS FITTING, HANGERS, ETC., CAN BE OF ANY RECOGNIZED

BY THE ENGINEER.

MANUFACTURER PROVIDED THESE ITEMS MEET MINIMUM STANDARDS AS SET

7. ALL PIPING THAT SUPPLIES A FLUSH VALVE, SOLENOID VALVE (OTHER

ABSORBER INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S

RECOMMENDATIONS. UNLESS INDICATED OTHERWISE, WHERE MULTIPLE

CHASE OR OTHER ENCLOSURE) ARE SUPPLIED BY COMMON PIPING

FIXTURES OR EQUIPMENT IN ADJACENT LOCATIONS (SUCH AS WITHIN A

MANIFOLD, A PROPERLY SIZED AND INSTALLED SHOCK ABSORBER MAY BE

THAN SLOW-CLOSING TYPE), FOOT PEDAL OPERATOR, SPRING RETURN

OPERATOR OR OTHER QUICK CLOSING TYPE DEVICE SHALL HAVE A SHOCK

CONTRACTOR'S OPTION.

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B. PROVIDE A COMPATIBLE FASTENING ASSEMBLY WITH INTERNAL SECONDARY DRAINAGE FLANGE AND WEEPHOLES FOR ALL ITEMS SPECIFIED HEREIN BEING INSTALLED IN STRUCTURES HAVING A WATER PROOF MEMBRANE, FLASHING, VAPOR BARRIER, OR SIMILAR ELEMENT PROVIDED UNDER SEPARATE CONTRACT. INSTALLATION CONDITIONS TO BE VERIFIED FROM ARCHITECTURAL DOCUMENTATION AND COORDINATED WITH THE APPROPRIATE CONTRACTOR.

C. COUNTER FLASHING (WHEN REQUIRED) FOR ITEMS SPECIFIED HEREIN IS TO BE COMPATIBLE WITH WATERPROOF MEMBRANE, VAPOR BARRIER FLASHING, OR SIMILAR ELEMENTS PROVIDED UNDER SEPARATE CONTRACT AT THE INTERFACE POINT. COUNTER FLASHING TO BE PROVIDED AND SET IN PLACE BY THE PLUMBING CONTRACTOR. BUT WILL BE MADE WATERTIGHT BY THE CONTRACTOR INSTALLING THE MEMBRANE, VAPOR BARRIER. FLASHING OR SIMILAR ELEMENTS PROVIDED UNDER SEPARATE CONTRACT, INSTALLATION CONDITIONS TO BE VERIFIED FROM ARCHITECTURAL DOCUMENTATION AND COORDINATED WITH THE

D. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL DRAINS, CLEANOUTS AND OTHER ITEMS SO NOTED INSTALLED FLUSH AND LEVEL WITH FINISH WALL, FLOOR OR OTHER STRUCTURE AS APPLIES. COORDINATE INSTALLATION WITH CONTRACTOR'S PROVIDING ASSOCIATED STRUCTURE, INCLUDING REQUIRED ELEVATIONS AND DIMENSIONAL LOCATIONS. ITEMS NOT PROPERLY INSTALLED SHALL BE REMOVED AND REPLACED TO THE SATISFACTION OF THE OWNERS' ON-SITE

E. ALL ITEMS AND ACCESSORIES SPECIFIED HEREIN ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND IN ACCORDANCE THE REQUIREMENTS OF THE INSPECTION/APPROVAL

F. COORDINATE LOCATION OF ALL DRAINS AS REQUIRED FOR PROPER OPERATION WHEN ASSOCIATED WITH SLOPED FLOORS, DECKS OR OTHER STRUCTURES PROVIDED UNDER SEPARATE CONTRACT.

G. VERIFY EXACT LOCATIONS OF DRAINS FURNISHED FOR ITEMS UNDER SEPARATE CONTRACT WITH THE FOUIPMENT AS ACTUALLY PROVIDED AND INSTALLED BY THE APPROPRIATE CONTRACTOR. COORDINATE INSTALLATION IN ADVANCE OF WORK.

H. WITH THE EXCEPTION OF CLEANOUTS, ALL ITEMS SPECIFIED ARE TO HAVE CONNECTION SIZE SAME AS CONNECTED PIPING SIZE SHOWN ON THE DRAWINGS, UNLESS DIRECTED OTHERWISE.

I. CLEANOUTS ARE TO HAVE OUTLET SIZE, CONNECTION PIPE AND FITTINGS OF SAME SIZE AS SHOWN ON PLANS FOR WASTE/DRAIN PIPING BEING SERVED, UP TO AND INCLUDING 3" SIZE. CLEANOUTS ARE TO HAVE OUTLET SIZE, CONNECTING PIPE AND FITTINGS OF 4" SIZE WHEN SHOWN ON THE DRAWINGS SERVING WASTE/DRAIN PIPING 4" SIZE AND

J. WHERE INDIVIDUAL SINK SOLIDS INTERCEPTORS ARE INDICATED ON THE DRAWINGS, THEY ARE TO BE PROVIDED IN LIEU OF P-TRAP FOR SINK IF SO SPECIFIED. INSTALL INTERCEPTOR TO ALLOW PROPER ACCESS FOR CLEANING AND SERVICE, INTERCEPTOR TO BE SUPPORTED FROM FLOOR BELOW SO AS NOT TO BEAR ON SINK, PIPING OR ASSOCIATED CASEWORK SUPERSTRUCTURE. PROVIDE ADDITIONAL APPROVED BLOCKING/BASE/STAND AS REQUIRED FOR SUPPORT FROM BASE OF CASEWORK OR FLOOR BELOW AS APPLICABLE.

K. COORDINATE LOCATIONS OF ITEMS SPECIFIED HEREIN, AND INSTALLED IN OR AT STRUCTURE PROVIDED UNDER SEPARATE CONTRACT, RELATIVE TO FOUNDATIONS. BEAMS AND OTHER STRUCTURE ELEMENTS TO AVOID CONFLICTS. MAKE MINOR ADJUSTMENTS AS REQUIRED FOR PROPER INSTALLATION, CLEARANCE AND ACCESSIBILITY. REFER TO ARCHITECTURAL/STRUCTURAL DOCUMENTATION IN ADVANCE OF WORK

ALL ITEMS/ELEMENTS SPECIFIED THAT ARE TO BE INTEGRATED INTO ABOVE GRADE STRUCTURES SHALL BE FURNISHED WITH AN ANCHOR FLANGE. WHEN SUCH IS AVAILABLE. SECONDARY DRAINAGE FLANGE AT DRAIN ASSEMBLIES MAY ALSO SERVE AS AN ANCHORING FLANGE,

TORAGE TANK ELECTRIC WATER HEATER

FURNISH AND INSTALL ELECTRIC WATER HEATER(S), ACCESSORIES, AND APPURTENANCES AS REQUIRED TO PROVIDE DOMESTIC HOT WATER SUPPLY TO ALL ITEMS/ELEMENTS INDICATED ON PLANS, AND TO ANY AND ALL OTHER POINTS REQUIRING SAME. THE ASSEMBLY SHALL INCLUDE ALL COMPONENTS NECESSARY FOR AUTOMATICALLY MAINTAINING CONSTANT

. WATER HEATERS MUST COMPLY WITH ALL REQUIREMENTS OF THE APPLICABLE ENERGY CONSERVATION CODE.

A. GLASS LINED TANK SHALL BE INSULATED WITH VERMIN-PROOF GLASS FIBER INSULATION AND THE OUTER STEEL JACKET SHALL HAVE A BAKED ENAMEL FINISH OVER A BONDERIZED UNDER COATING.

B. HEATER SHALL HAVE A WORKING PRESSURE OF 150 PSIG.

C. WATER HEATER SHALL HAVE AN EXTRUDED MAGNESIUM ANODE ROD RIGIDLY SUPPORTED FOR CATHODIC PROTECTION. D. HEATER SHALL HAVE A THREE YEAR LIMITED WARRANTY AGAINST

E. HEATER SHALL BY A.O.SMITH, RHEEM/RUUD, BRADFORD WHITE, BOCK, NATIONAL, STATE, OR LOCHINVAR OF THE SAME TYPE AND CAPACITY MAY BE FURNISHED AT THE CONTRACTOR'S OPTION.

F. THERMAL EXPANSION TANKS SHALL BE SIMILAR TO AMTROL INC. ST-C EXTROL SERIES CAPACITIES AS INDICATED ON PLANS. FURNISH WITH STEEL SHELL. RIGID POLYPROPYLENE LINER AND HEAVY DUTY FIBBER DIAPHRAGM. LINER AND DIAPHRAGM MECHANICALLY BONDED TO SHELL TO FORM A SEPARATE AIR CHAMBER AND NON-CORROSIVE WATER RESERVOIR. THIS CONTRACTOR TO FIELD ADJUST THE MANUFACTURER'S PRE-CHARGED AIR PRESSURE TO ACTUAL PROJECT SPECIFIC SYSTEM WORKING PRESSURE PARAMETERS PER MANUFACTURER'S RECOMMENDATIONS. EXPANSION TANKS SHALL BE INDEPENDENTLY SUPPORTED FROM ADJACENT STRUCTURE AND SHALL NOT BEAR WEIGHT ON CONNECTION FITTING. TANKS TO BE ASME AND NSF LISTED.

G. ALL WATER HEATERS THAT DO NOT INCLUDE AS AN INTEGRAL LISTED/APPROVED ANTI-SIPHON DEVICE IN ACCORDANCE WITH ANSI STANDARDS SHALL HAVE A VACUUM RELIEF VALVE INSTALLED IN COLD WATER SUPPLY PIPING TO THE HEATER PER INSPECTION/APPROVAL AUTHORITIES REQUIREMENTS. RELIEF VALVE TO BE SIMILAR TO WATTS

A. INSTALL WATER HEATER, PIPING AND ACCESSORIES AS RECOMMENDED

B. INSTALL ASME RATED TEMPERATURE-PRESSURE RELIEF VALVES AS REQUIRED AND/OR AS INDICATED ON THE PLANS. VALVE SETTING 210°F AND 125 PSIG. EXTEND DISCHARGE PIPE FULL SIZE TO APPROVED DRAIN

C. SET OUTLET TEMPERATURE OF WATER HEATER AT 140 DEGREES

D. PROVIDE HEAT TRAP NIPPLE PER MANUFACTURER'S RECOMMENDATIONS.

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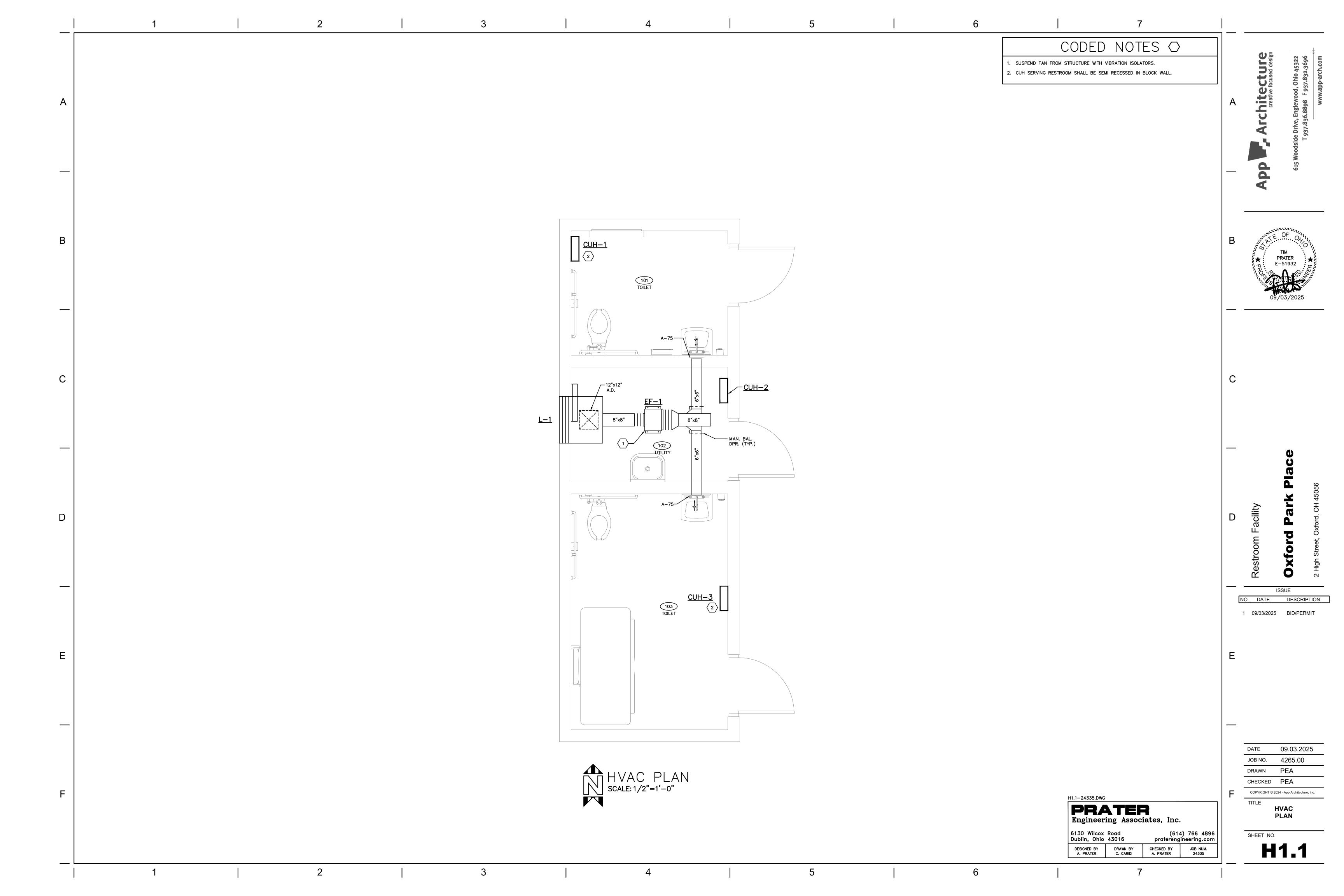
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> **PLUMBING SPECIFICATIONS**

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## EXHAUST FAN SCHEDULE

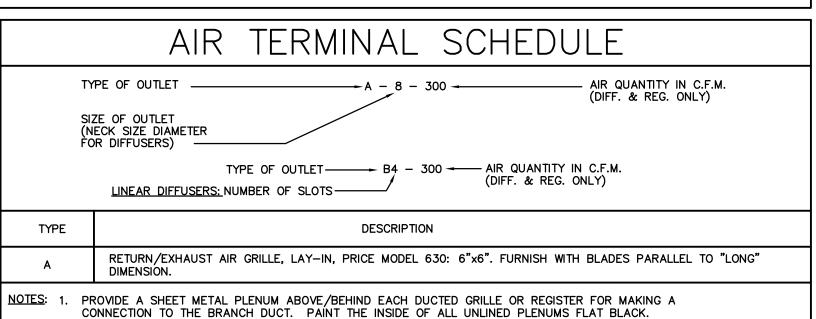
KEY: CENT.-CENTRIFUGAL; PROP.-PROPELLER; F.C.-FORWARD CURVED; B.I.-BACKWARD INCLINE;

					A.FAIR	FOIL; A	T.L.–AC	ROSS TH	E LINE; VFC	-VARIABLE I	FREQUENCY	DRIVE						
																DAMPE	R DRIVE	
FAN NO.	LOCATION	FUNCTION	MFGR. MODEL NUMBER	FAN TYPE	WHEEL TYPE & SIZE	CFM	TOTAL S.P. "W.G.	R.P.M.	TIP SPEED F.P.M.	OUTLET VELOCITY F.P.M	MAX. SOUND RATING (SONES)	MOTOR H.P.	BHP REQ'D	VOLT PHASE	TYPE MOTOR STARTING	GRAVITY MOTOR OPERATED	ADJUST. V-BELT DIRECT	REMARKS
EF-1	MECHANICAL ROOM	RESTROOM EXHAUST	GREENHECK CSP-A390-VG	B.I. EXHAUST	F.C. 7.75"	150	0.5"	1220	1765	139	2.0	1/15	0.04	120 1	V.F.D.			123

TAN SHALL BE FURNISHED W/FACTORY MOUNTED SUPPORT FAN FROM OVERHEAD STRUCTURE FAN TO BE CONTROLLED BY OCCUPANCY W/ VIBRATION ISOLATION KIT, RODS & SENSOR IN EITHER RESTROOM. AUXILIARY STEEL.

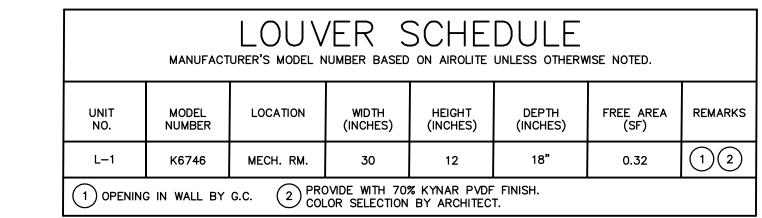
#### CABINET UNIT HEATER SCHEDULE MANUFACTURER'S MODEL NUMBER BASED ON QMARK UNLESS OTHERWISE NOTED. REMARKS MODEL MBH MOUNTING TYPE NUMBER **PHASE** 13.6 16.7 CUH-1 AWH4004 RECESSED 13.6 16.7 WALL-MOUNTED CUH-2 AWH4004 $1 \boxed{2}$ 13.6 16.7 RECESSED CUH-3 AWH4004

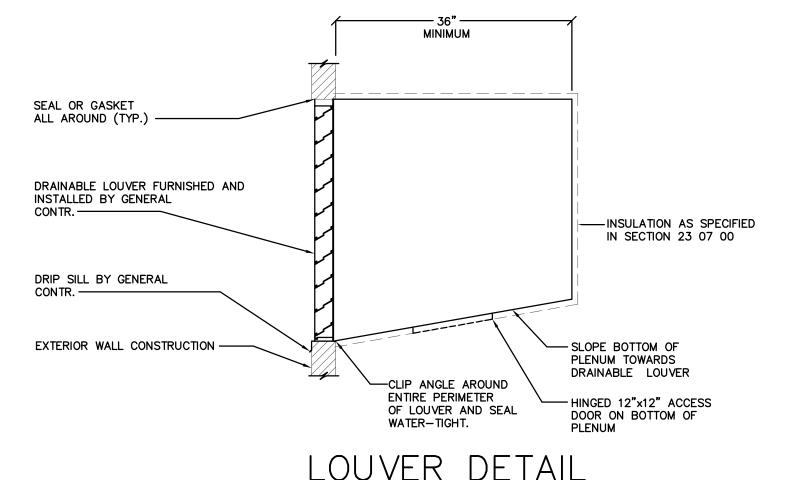
2 PROVIDE INTEGRAL 3 FURNISH WITH SURFACE MOUNTING FRAME. 1 TAMPER PROOF



2. COORDINATE THE GRID FACE DIMENSION OF ALL LAY-IN TYPE CEILING SUSPENSION SYSTEMS WITH THE GENERAL

CONTRACTOR. PROVIDE NARROW TEE TYPE DEVICES WHERE REQUIRED.







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TITLE **SCHEDULES** 

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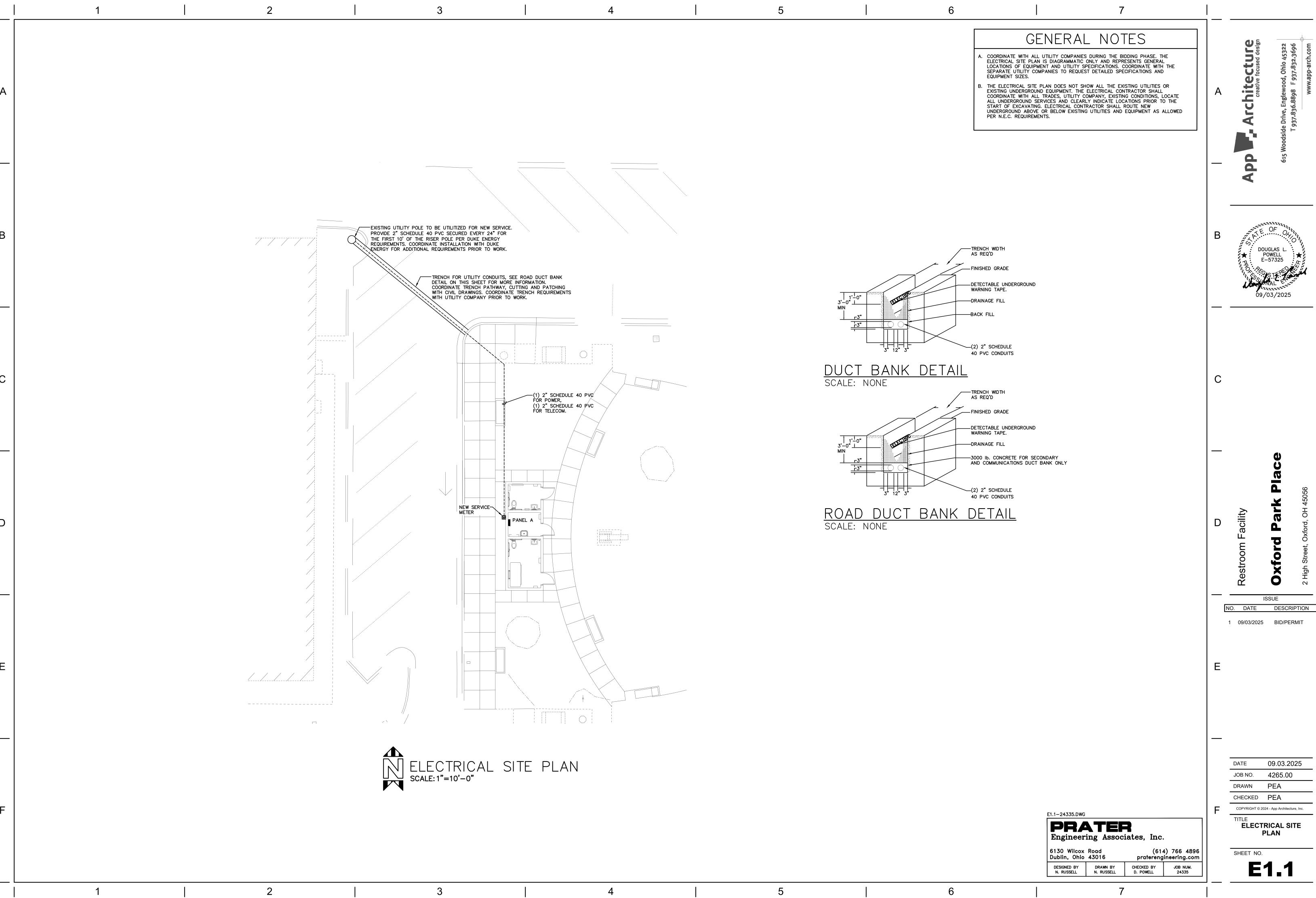
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BY RECOGNIZED TESTING AGENCY. FIRESTOPPING SHALL ALSO CONFORM BY THE FOLLOWING GOVERNING CODES: OHIO BASIC BUILDING CODE, NFPA 101-

LIFE SAFETY CODE & NFPA 70 - NATIONAL ELECTRIC CODE.

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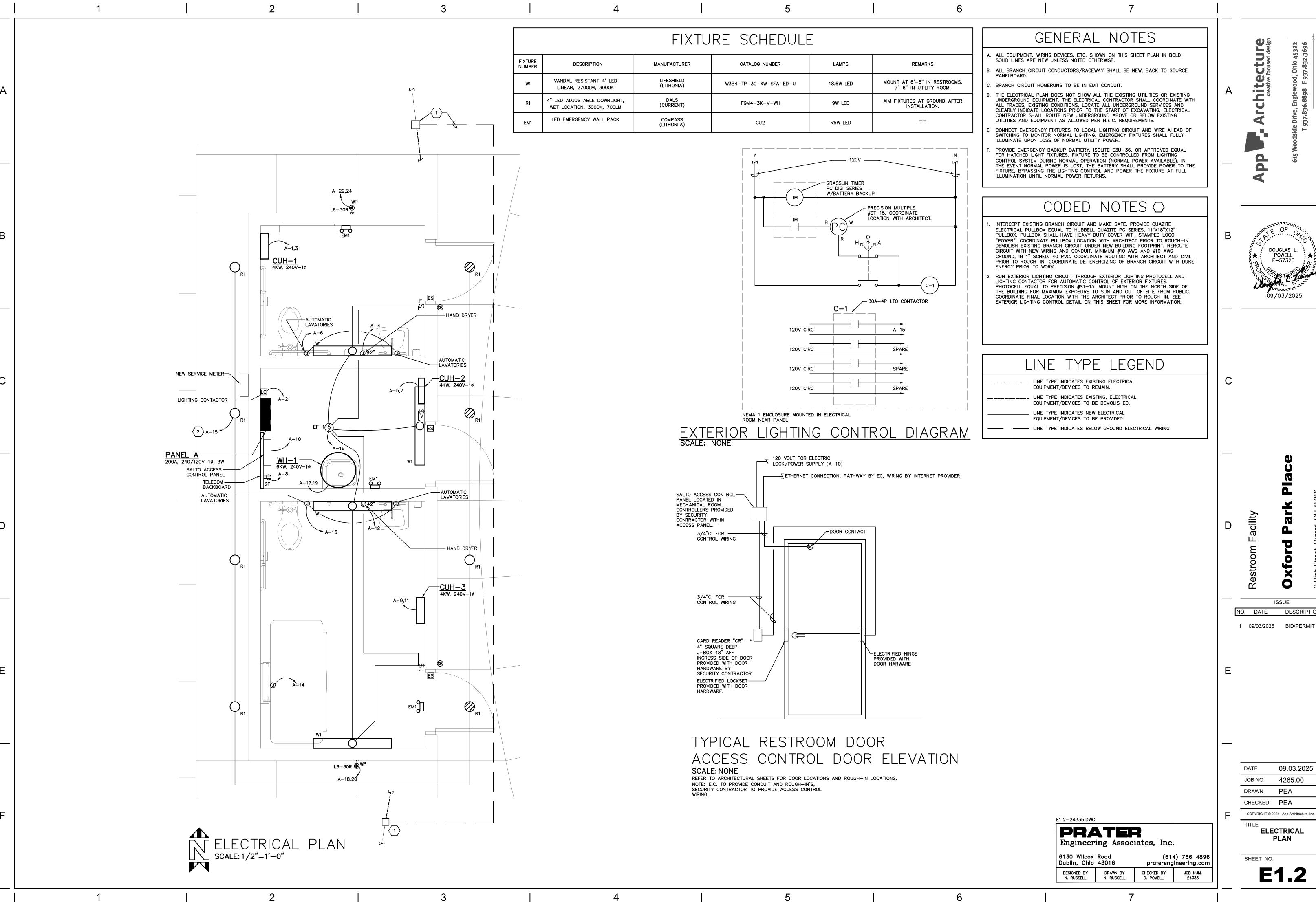
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ELECTRICAL SITE **PLAN** 

E1.1



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**ELECTRICAL** 

PLAN

# LUTRON ENERGI TRI-PAK, LSI AIRLINK, & CRESTRON ZUM. LIGHTING CONTROL NOTES STRAIGHT LINES BETWEEN DEVICES/LUMINAIRES INDICATE SWITCHED CIRCUIT. ARCED LINES INDICATE UNSWITCHED CIRCUIT. POWER PACKS & WIRING ARE SHOWN ON THE DRAWINGS FOR SPECIFIC CIRCUITING & SWITCHING, EXCEPT WHEN CONTROL INTENT IS CLEAR (EX.-BOUND BY A ROOM). ALL SWITCH CONTROLS & POWER PACKS SHALL BE FURNISHED & INSTALLED AS REQUIRED. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE & FUNCTIONAL BRANCH CIRCUIT WIRING & CONTROL SYSTEM IS FURNSHED & INSTALLED.

AWG

WIRE GND

SIZE SIZE

12 12

12 12

12 12

Panel Type: LIGHTING AND POWER PANEL

BRANCH CIRCUIT

DESCRIPTION

SPARE

HAND DRYER

**LAVATORIES** 

GEN. REC

ACCESS CTRL PANEL

HAND DRYER

CHANGING STATION

INTERIOR LTG

SPECIAL EVENT REC

SPACE

SPACE

SPACE

30/2 SPECIAL EVENT REC

Breaker Options (If Used):

GF - GND Fault CKT Interrupter

SH - Shunt Trip Breaker

NEMA-1

Enclosure:

CONN. CKT CKT

(KVA) OPTION SIZE

GF

GF

GF

BKR BKR

20/1

20/1

20/1

20/1

20/1

20/1

20/1

30/2

128.3 AMPS TC - Time Clock Control

143.2 AMPS LO - Lock-On Device

135.8 AMPS E - Existing to Remain

240 /

CKT PHASE CKT LOAD

NO.

22

24

27 B 28 0.000

17.2 KVA

Connected Load Panel Summary

Total: 32.6 KVA

Phase A: 15.4 KVA

0.000 29 A 30

0.000

1.500

0.100

0.180

0.100

1.500

1.200

0.100

2.400

2.400

2.400

0.000

0.000

Voltage:

Phase:

Wire:

Main Size: 200 Amps

SYMBOL	DESCRIPTION	UNLESS OTHERWISE NOTED
R1,a R1,a	LIGHT FIXTURE: TYPE "R1" SEE LIGHTING FIXTURE SCHEDULE; WIRED TO SWITCH "a"	
<u></u>	EMERGENCY LIGHTING BATTERY PACK WITH INTEGRAL HEAD AND MOUNTING AS NOTED; SEE LIGHTING FIXTURE SCHEDU	
<del>10</del> 0	CEILING OR WALL MOUNTED LIGHTING FIXTURE TYPE SEE LIGHTING FIXTURE SCHEDULE	SEE DRAWINGS
\$a	SINGLE POLE SWITCH; a = SWITCH "a"	42"
\$2; 3; 4; K; P	SPECIAL SWITCH: 2-WAY; 3-WAY; 4-WAY; KEY OPERATED; SWITCH WITH PILOT LIGHT	42"
$\Rightarrow$	DUPLEX RECEPTACLE; 3 WIRE GROUND TYPE	18"
$\Longrightarrow^{GF}$	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER	18"
$\Rightarrow$ WP	DUPLEX RECEPTACLE W/ WEATHERPROOF COVER	18"
3-▲	SPECIAL PURPOSE RECEPTACLE AS NOTED ON DRAWING	18"
○ 0 <sub>F</sub>	JUNCTION BOX; WALL / CEILING MOUNTED: FLOOR MOUNTED	D SEE DRAWINGS
	ELECTRICAL PANEL - SURFACE MOUNT, FLUSH MOUNT	6'-0" TO TOP
4	SAFETY DISCONNECT SWITCH	
ES	ELECTRIC STRIKE	
(CR)	CARD READER	
SJ	SECURITY JUNCTION BOX	

JURISDICTIONAL AUTHORITIES AND/OR OWNER SPECIFICATIONS AND REPORT ANY

DEVIATIONS ON DRAWINGS TO THE OWNER.

- THE ELECTRICAL SUBCONTRACTOR SHALL FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIALS AND LABOR THAT MAY BE REQUIRED FOR COMPLIANCE WITH ALL GOVERNING LAWS, RULES AND REGULATIONS. EVEN THOUGH THE WORK IS NOT MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. NOTHING IN THE SPECIFICATIONS OR DRAWINGS SHALL BE DEEMED AS AUTHORITY TO VIOLATE ANY GOVERNING CODE.
- FURNISH A WRITTEN CERTIFIED GUARANTEE, IN ACCEPTABLE FORM TO THE OWNER, AGAINST ANY DEFECTIVE WORKMANSHIP, MATERIAL AND OPERATING EQUIPMENT. THIS GUARANTEE SHALL BE IN FORCE AND EFFECTIVE FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF THE INSTALLATION.
- MC CABLE MAY BE INSTALLED AT THE CONTRACTORS OPTION AS SPECIFIED BELOW. ALL RACEWAYS BELOW GRADE OR UNDER THE SLAB SHALL BE A MINIMUM OF 1", RIGID SCHEDULE 40 PVC OR GRC TYPE CONDUIT.

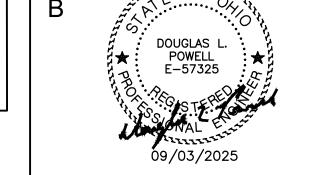
PANEL A MAIN CIRC BRKR

ALL WIRING 100 VOLTS AND OVER SHALL BE RUN CONCEALED IN EMT CONDUIT.

ALL CIRCUITS 100 VOLTS AND OVER SHALL INCLUDE A WIRED GROUND SIZED AS SHOWN ON THE DRAWINGS AND LISTED IN THE NEC.

- J. MC ARMORED CABLE MAY BE USED CONCEALED IN STUD WALLS AND ABOVE CEILINGS FOR LIGHTING, RECEPTACLES, MOTOR AND FIXED EQUIPMENT BRANCH CIRCUITS IN #12 AWG AND #10 AWG SIZES ONLY. MC CABLE SHALL NOT BE INSTALLED IN ANY EXPOSED AREAS INCLUDING BUT NOT LIMITED TO FINISHED AREAS, MECHANICAL, ELECTRICAL ROOMS, ETC. ALL MC TYPE ARMORED CABLE SHALL HAVE 600 VOLT INSULATION AND FULL SIZE INSULATED GROUND
- DUPLEX GROUNDING TYPE TAMPERPROOF RECEPTACLES SHALL BE HUBBELL
- M. ALL PLATES SHALL BE STAINLESS STEEL WITH TAMPERPROOF FASTENERS.

- P. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRING.
- BOLT-ON COVERS. BRANCH CIRCUIT PANELBOARD SHALL BE PROVIDED AS SHOWN ON THE AIC SHALL BE 10 KAIC, PROVIDE WITH COPPER BUS AND SEPARATE COPPER
- TELECOM BACKBOARD SHALL BE 3 FT WIDE X 4 FT HIGH X 3/4" THICK INTERIOR GRADE PLYWOOD. PAINT ALL BACKBOARDS WITH ONE COAT OF EXTERIOR WOOD PRIMER AND TWO COATS OF FIRE PROOFING LATEX FLAT EXTERIOR FINISH.



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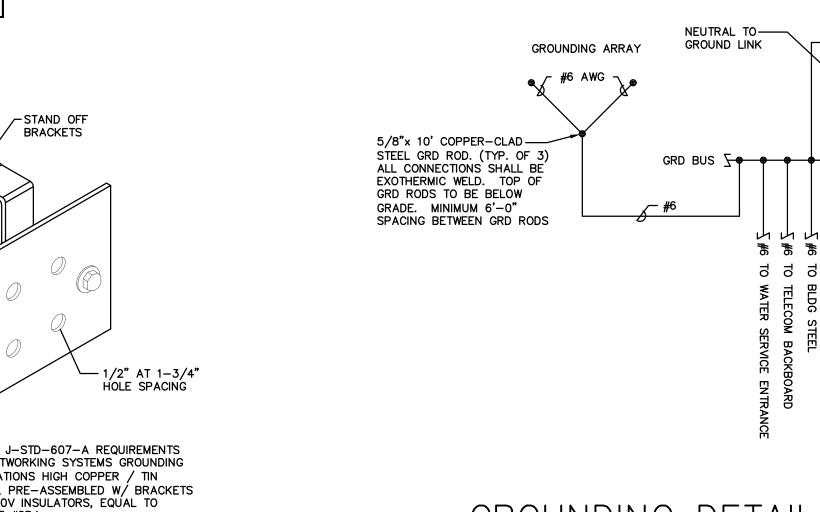
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**ELECTRICAL DETAILS** 

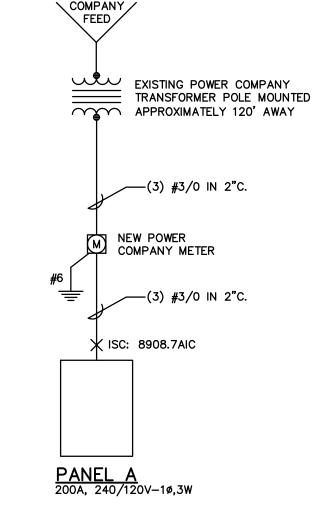
SHEET NO.

ELECTRICAL ABBREVIATIONS AMERICAN WIRE GAUGE G.C. GENERAL CONTRACTOR ABOVE COUNTER GRD GROUND

ABOVE FINISHED FLOOR LTG LIGHTING MECH MECHANICAL CEILING CONDUIT PANEL REC RECEPTACLE ELECTRICAL CONTRACTOR TYPICAL EXISTING TO REMAIN WEATHER PROOF FIXTURE







POWER

ONE-LINE DIAGRAM

600 VOLT INSULATOR  BICSI / J-STD-607-A REQUIREMENTS FOR NETWORKING SYSTEMS GROUNDING APPLICATIONS HIGH COPPER / TIN PLATED, PRE-ASSEMBLED W/ BRACKETS AND 600V INSULATORS, EQUAL TO PANDUIT #GB4
LOCK — LAG BOLT INTO TELEPHONE BACKBOARD ALL FOUR (4)
CORNERS
GROUNDING
BUS DETAIL TMGB & TGB
SCALE: NONE

TMGB - 1/4" X 4" X 24" W/16 1/2" HOLES, SPACED 1-3/4" TGB - 1/4" X 4" X 12" W/7 1/2" HOLES, SPACED 1-3/4"

E1.3-24335.DWG PRATER Engineering Associates, Inc. 6130 Wilcox Road (614) 766 4896 Dublin, Ohio 43016 praterengineering.com DRAWN BY N. RUSSELL CHECKED BY DESIGNED BY JOB NUM. D. POWELL N. RUSSELL

Panel ID: A

Mounting: SURFACE Main Type: MCB

\*\* = Refer to one line diagram for wire sizes.

BRANCH CIRCUIT

DESCRIPTION

CUH-1

CUH-2

CUH-3

LAVATORIES

**EXTERIOR LTG** 

W H-1

SPARE

SPARE

SPACE

SPACE

12 12 LIGHTING CONTACTOR

Demand Load Panel Summary

30.3 KVA

126.2 AMPS

GND WIRE

SIZE SIZE

10 10

10 10

12 12

12

10

Location: ELECTRICAL ROOM

**BKR** 

30/2

30/2

30/2

20/1

20/1

40/2

20/1

20/1

All circuit breakers shall be standard bolt-on type, unless noted otherwise.

CKT | CKT | CONN.

SIZE OPTION (KVA)

BKR

LOAD

2.000

2.000

2.000

2.000

2.000

2.000

0.100

0.100

3.000

3.000

0.100

0.000

0.000

N. WEATHERPROOF COVER PLATES SHALL BE HUBBELL #HBLSS263R OR EQUAL.

O. ALL RECEPTACLES SHALL BE TAMPERPROOF UNLESS NOTED OTHERWISE.

OUTLET, DEVICE, AND WIRING BOXES SHALL BE SHEET STEEL WITH STAMPED KNOCKOUTS, THREADED SCREW HOLES, AND ACCESSORIES FOR EACH LOCATION INCLUDING MOUNTING BRACKETS AND STRAPS, CABLE CLAMPS, EXTERIOR RINGS, AND FIXTURE STUDS. PULL BOXES AND JUNCTION BOXES SHALL BE HOT DIPPED GALVANIZED STEEL WITH WELDED SEAMS. BOXES SHALL HAVE SCREW-ON OR

DRAWINGS, SQUARE D QO (240/120V) OR EQUAL BY SIEMENS OR ABB. MINIMUM GROUND AND NEUTRAL BUS BAR. CIRCUIT BREAKERS SHALL BE BOLT ON TYPE SIZED AS SHOWN ON THE PANELBOARD SCHEDULE. MOUNT PANELBOARDS SUCH THAT NO CIRCUIT BREAKERS ARE ABOVE 6'-0" AFF.

SCALE: NTS

E1.3