ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS FOR

PUBLIC TRANSPORTATION PARKING LOT &
DEMONSTRATION BUILDING (LR)(S)

AHTD JOB NO. 061421
FTA JOB NO. F729
FTA GRANT NO. AR-18-X029
ROUTE 338 SECTION 1
PULASKI COUNTY

PROJECT LOCATION

VICINITY MAP

PULASKI COUNTY

PROJECT LOCATION

MIDPOINT OF PROJECT

LONGITUDE  92° 23' 00"
LATITUDE  34° 40' 15"

CROMWELL
ARCHITECTS ENGINEERS, INC.
Little Rock, Arkansas

Arkansas architect.

Title Sheet

G-001
FIRE ALARM SYSTEM IS NOT REQUIRED BY CODE, HOWEVER IT IS BEING INSTALLED BASED ON OWNER'S REQUEST

NEW PARKING LOT & DEMONSTRATION BUILDING

MEANS OF EGRESS (Chapter 10)

ALLOWABLE EXIT TRAVEL DISTANCE (Per Table 1016.1) 200 Feet

ROOM

<table>
<thead>
<tr>
<th>OCCUPANT LOAD (Section 1004)</th>
<th>AREA</th>
<th>SF./PER</th>
<th>100 gross</th>
<th>OCCUPANT</th>
<th>LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Occupancy</td>
<td>798 s.f.</td>
<td>100 gross</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>84 s.f.</td>
<td>300 gross</td>
<td>1</td>
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</tbody>
</table>

ACCESSIBILITY (CHAPTER 11)

All provisions of the Americans with Disabilities Act shall be complied with whether or not they are incorporated into The Arkansas Fire Code andIBC 2006 with Arkansas Amendments.

FIRE PROTECTION (Chapter 7)

OPENING PROTECTIVE FIRE PROTECTION RATING (Per Table 714.2)

One Hour Fire Barriers require ½ hr. opening protection assembly of incidental use separation per Table 715.4

ARKANSAS PLUMBING CODE

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (Table 403.1)

Occupancy B

- Water closets and urinals (REQUIRED): 1 per 25 (First 50), 1 per 50 (remainder) Required: 1 TOTAL
- Lavatories (REQUIRED): 1 per 40 (First 80), 1 per 80 (remainder) Required: 1 TOTAL
- Drinking Fountains (REQUIRED): 1 per 100 ([9 / 100] = 1 total, and it must be wheelchair accessible) Drinking Fountains (PROVIDED): 1 - HC accessible
- Other: 1 service sink
ACCEPTABLE SURFACE TYPES AND METHODS

1. PATTERNED "STAMPED" CONCRETE:
   TRENCHES AND OTHER CONCRETE FORMED BY USING "STAMPERS" OR APPROVED EQUAL CONCRETE

2. POLYURETHANE TRUNCATED DOME MARKING LASER APPLIED WITH 3-PART ADHESIVE AS MANUFACTURER'S EQUAL. DETECTABLE MARKING SYSTEMS, INC.
   2162 SANTANO RD., F.037
   MILPITAS, CA 95035
   TEL: 408-244-7438

3. RUBBER DOMES WITH POLYURETHANE COATING:
   TRENCHES AND OTHER CONCRETE FORMED BY USING "STAMPERS" OR APPROVED EQUAL CONCRETE

NOTE: APPROVED STAMPERS MANUFACTURED.
WHEEL STOP MAY BE USED.

1. WHEEL STOP DETAILS
   NOT TO SCALE

2. HANDICAP RAMP DETAIL
   NOT TO SCALE

4. SEPARATION CURB DETAIL
   NOT TO SCALE
EROSION CONTROL LEGEND
- Filter Fabric Fence (Silt Fence)
- Construction Entrance/Exit Pad
- Rock Filter Dam
- Inlet Protection

EROSION CONTROL NOTES:
1. All areas of the site exposed by construction activity and left undisturbed for 21 days must be seeded within 14 days of last disturbance.
2. Contractor must prevent sedimentation run-off and debris from public streets.
3. Mulch application rates for:
   - Loose straw = 2 tons/acre
   - Gravel = 125 tons/acre
4. Contractor must protect municipal rights and adjacent properties from sediment.
5. Erosion controls shall be maintained until sodding, seeding, or mulching supplies filtration.
### Required Structural Inspections and Statement of Special Inspections

**Per Chapter 17 of Current Arkansas Fire Prevention Code Volume II Building (Based on ISCC Code)**

<table>
<thead>
<tr>
<th>Item</th>
<th>Continuous</th>
<th>Periodic</th>
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</thead>
<tbody>
<tr>
<td><strong>Steel Construction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Material verification of high strength bolts, nuts, and washers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Structural steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Inspect beams and columns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Inspect structural steel connections</td>
<td></td>
<td></td>
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<tr>
<td><strong>Concrete Construction</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Inspect reinforcing steel and placement</td>
<td></td>
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<tr>
<td>2. Inspect bolts to be installed in concrete and/or masonry walls prior to and during placement of concrete</td>
<td></td>
<td></td>
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<tr>
<td>3. Verify use of specified design mix</td>
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<tr>
<td>4. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete</td>
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<tr>
<td>5. Inspection of concrete placement for proper application techniques</td>
<td></td>
<td></td>
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<tr>
<td>6. Inspection for maintenance of specified curing temperatures and techniques</td>
<td></td>
<td></td>
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<tr>
<td>7. Certification of in-situ concrete strength, prior to removal of shores and forms</td>
<td></td>
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<tr>
<td>8. Inspect formwork for shape, location, and dimensions of the concrete member being formed</td>
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<tr>
<td>9. Inspect various barriers/retaining for use of specified material and proper placement</td>
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**Masonry Construction**

<table>
<thead>
<tr>
<th>Item</th>
<th>Continuous</th>
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<tbody>
<tr>
<td>1. AS Masonry Construction Begins, the following shall be verified to ensure compliance with the required specifications and codes</td>
<td></td>
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<tr>
<td>2. The inspection program shall verify</td>
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<tr>
<td>3. Type, size and location of anchors, including other details of anchorage of masonry to structural members</td>
<td></td>
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<tr>
<td>4. Preparation of masonry during cold weather or hot weather temperature below 40 F or above 80 F</td>
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<tr>
<td>5. Prior to starting the following shall be verified to ensure compliance</td>
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**Notes:**

See drawing S-002 for notes applicable to the required structural inspections and statement of special inspections.
REQUIRED STRUCTURAL INSPECTIONS AND
STATEMENT OF SPECIAL INSPECTIONS - (CONTINUATION OF DRAWING S-001)

PER CHAPTER 17 OF CURRENT ARKANSAS FIRE PREVENTION CODE, VOLUME 9: BUILDING (BASED ON IBC CODE)

(SEE DRAWING S-001)

NOTES:
1. CONTRACTOR IS TO BE RESPONSIBLE FOR SUBMITTING THE WRITTEN STATEMENT OF RESPONSIBILITY REQUIRED BY THE CURRENT ARKANSAS FIRE PREVENTION CODE, VOLUME 9: BUILDING (IBC) REFERENCED TO AS THE BUILDING CONSTRUCTION TOOLS REGARDING CONSTRUCTION OF THE MAIN SEISMIC-FORCE-RESISTING SYSTEM AND CONTAINING THE FOUR ITEMS LISTED THEREIN.

2. THE ITEMS CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH THE CURRENT BUILDING CODE, CHAPTER 7, BY AN INSPECTOR FROM AN ESTABLISHED AND CERTIFIED TESTING AGENCY. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND CERTIFICATIONS TO THE ARCHITECT, ENGINEER, CONTRACTOR, OWNER, AND BUILDING OFFICIAL.

3. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER, AND OWNER.

4. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL RIDGE DESIGNED COMPONENTS.

5. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE INSPECTOR IS ON SITE AT ALL TIMES, OBSERVING THE WORK AT THE TIME THE WORK IS BEING PERFORMED. THE INSPECTOR IS RESPONSIBLE FOR CONFIRMING THAT ALL REQUIRED SPECIAL INSPECTIONS ARE IN COMPLIANCE.

6. ALL WORK SHALL BE VISUALLY INSPECTED AT A MINIMUM IN ADDITION TO ANY OTHER REQUIREMENTS IN THESE CONTRACT DOCUMENTS.

7. ALL COMPLETE PENETRATION HOLES SHALL BE TESTED (ULTRASONICALLY BY USE OF A COMPAREABLE APPROVED DEVICE) IN ADDITION TO ANY OTHER REQUIREMENTS IN THESE CONTRACT DOCUMENTS.

8. STRUCTURAL INSPECTIONS SHALL COMPLY TO THE REQUIREMENTS OF THE CURRENT BUILDING CODE, CHAPTER 17.
TYPICAL SLAB EDGE & FOOTING DETAIL

44 DOWELS AT 12" O.C.

VAPOR BARRIER

FOR CONDITIONS BELOW SLAB SEE DETAIL B - THIS SHEET

44 TIES AT 12" O.C.

44 CONT.

4 CONT.

CENTERLINE OF FOOTINGS AND STEMMOULDS

CLEAN GRUSSSED STONE OR GRAVEL ACCORDING TO TABLE B-1.

CONCRETE SLAB SLAB FINISH PER ARCHT.

BETWEEN CONCRETE COVER PROTECTION FOR ANY METAL PARTS AND/OR SUPPORTS OF FRENCH

TOP OF FOOTING MUST BE FOUND IN THE STIFF GRAY, REDDISH TAN AND RED DICE CONCRETE, THE MUDRED DENSE GRAY, RED, AND TAN GLAYED FINE SAND OR IN A COMPACTED SELECT FILL, FLOWABLE FILL, EMBRACE COMPREHENSIVE DESIGN = 200 psi OR LEAN CONCRETE PLACED IN AN UNDERCUT TO RECOMMENDED SLOPE SKN IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOLOGIC REPORT, DECEMBER 2019 BY THE GEOLOGICAL ENGINEER, ENSLOW, HORTON, BARTON, AND HYATT, INC.
ADA REQUIREMENTS

This section applies to handicapped accessible fixtures only.

Water closets: The height of water closets shall be 17"-1/2" measured from the top of the floor to the toilet seat. Seats shall not be removable or removable by pass-through devices. The water closet shall be located 17" from the side wall to the center of the bowl. Hand-operated flush mechanisms shall be mounted on the side of the toilet adjacent to no more than 10' of finished floor, see architectural sheets for access. Locations should be marked.

Lavatories: Lavatories shall be equipped with the hand or foot controls with no more than 10' of finished floor. Provide a 4"-2" clearance of the bottom of the lavatory fixture. The water supply shall be located a minimum of 24" above finished floor. All water and drain piping under lavatories shall be insulated with foam-covered, covered with at least 1" Vinyl outer shell. Saddle stops shall have a stop top access.

Piping & fixtures:

- Water closets shall not be obstructed.
-手洗器、水栓、ヒンジ、スイッチ、ボタン、ソケット、ブレーカー、ドアノブ、liness shall be located at the side of the toilet adjacent to no more than 10' of finished floor. See architectural sheets for access.

General Notes:

1. All plumbing fixtures shall be installed as specified in contract and drawings.
2. All openings are dimensioned and detailed to the extent necessary to provide an understanding of the plumbing systems. They are not intended to provide a complete overview of the plumbing systems. The design and installation of the plumbing systems shall be left to the discretion of the contractor. The contractor shall be responsible for the proper installation of the plumbing systems, including all necessary connections, valves, pipes, and fittings.
3. Unless otherwise specified, all plumbing systems shall be installed in accordance with the latest edition of the National Plumbing Code. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with these codes.
4. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with local building codes and regulations.
5. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with the latest edition of the National Electrical Code. The contractor shall be responsible for ensuring that all electrical systems are installed in accordance with these codes.
6. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with local electrical codes and regulations.
7. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with the latest edition of the National Fire Protection Code. The contractor shall be responsible for ensuring that all fire protection systems are installed in accordance with these codes.
8. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with local fire protection codes and regulations.
9. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with the latest edition of the National Safety Code. The contractor shall be responsible for ensuring that all safety systems are installed in accordance with these codes.
10. The contractor shall be responsible for ensuring that all plumbing systems are installed in accordance with local safety codes and regulations.

All plumbing fixtures shall be installed as specified and in accordance with the contract and drawings.
PLUMBING PLAN - KEYED NOTES

1. DR. LINE ON WALL TO HOSE BIB AT 34" A.F.F.
2. RISE IN WALL WITH DOMESTIC DR. LINE TO ABOVE CEILING AND CONTINUING AS SHOWN.
3. PROVIDE A DOMESTIC WATER SHUT-OFF VALVE IN A CAST IRON VALVE BOX WITH A CAST IRON DROP COVER MARKED "WATER."
4. RE-BITE UTILITY PLAN FOR CONTINUATION.

PLUMBING WASTE AND VENT RISER

Legend and Notes:
Refer to Sheet P-100 for Legend and Notes.
PLUMBING FIXTURE SCHEDULE

1. WATER CLOSET, FLOOR MOUNTED, SENSOR FUSH VALVE, ADA ACCESSIBLE:
   - Sensor float valve, actuator, and bowl trim kit.

2. TOILET - AMERICAN STANDARD TANK 1 1/2" DRAIN 3/4" UNION, 1 1/2" DRAIN, 1 1/4" COUPLING, 1 1/2" PERSPIRATOR, 1 1/2" DRAIN, 3/4" ABS, BLOWER, ABS LATING, AND INTEGRAL TRAPS 1 1/4" CAST - AMERICAN STANDARD BOWL 1 1/4" WITH OVERFLOW, ELONGATED SEAT OPEN FRONT WITH SOAP DISHER, WHITE:
   - Floor mount, Sloan Optima Plus #811-1, 20 gpm, battery powered infrared sensor, courtesy over-side button, vacuum breaker, enclosed chrome plated, flushometer toilet, vandal, resistant stop cap.

3. PLUMBING Rough Ins - 4" 5" 2" 1" CVP:
   - See ADA Compliant Notes for additional requirements.

U.S. - WALL HUNG, ADA COMPLIANT:

4. TOILET - AMERICAN STANDARD TANKLESS, CUmulus 600, VITREOUS CHINA, 20-1/2" X 16-1/2":
   - Wall hung, concealed arm, white in color.

5. TAPLET - CHICAGO FACULTY 97-0120 A, BATTERY POWERED SENSOR, SINGLE HOLE, 5 GPM IRIFLOW, VANDAL RESISTANT ATRIATOR, INSTALL HIGH AND TIGHT BELOW FIXTURE TO CONCEAL:
   - See ADA Compliant Notes for additional requirements.

U.S. - HAND WASH:

6. FAUCET - CHICAGO FACULTY 97-0120 A, BATTERY POWERED SENSOR, SINGLE HOLE, 5 GPM IRIFLOW, VANDAL RESISTANT ATRIATOR, INSTALL HIGH AND TIGHT BELOW FIXTURE TO CONCEAL:
   - See ADA Compliant Notes for additional requirements.

CO. FLUSH CLOSET:

7. FIXTURE - COMMERCIAL HEAVY DUTY SERIES ADJUSTABLE, HEAVY DUTY CAST IRON TRIM, TRIM GRILS, COVER PLATE ON TOP, POLISHED NICKEL BOLTED TOP AND THREADED INSERTS.

CO. FAUCET TO SHOWER:

8. FIXTURE - COMMERCIAL HEAVY DUTY SERIES ADJUSTABLE, HEAVY DUTY CAST IRON TRIM, TRIM GRILS, COVER PLATE ON TOP, POLISHED NICKEL BOLTED TOP AND THREADED INSERTS.

PLUMBING Rough Ins - SEE PLUMB:

WATER HAMMER ARRESTORS:

9. FIXTURE - EQUAL TO "HOH" VARIOUS DESIGN REQUIRED IN PIPE:
   - Water hammer arrestors shall be provided. Water hammer arrestors will be located on all vertical closing valves (flush valves, disk valves, ice manifold, etc.)

BATH, DOMESTIC WATER HEATER, ELECTRIC WATER HEATER:

10. FIXTURE - EQUAL TO "THERMOTROL" DESIGNS REQUIRED IN PIPE:
    - Water hammer arrestors shall be provided. Water hammer arrestors will be located on all vertical closing valves (flush valves, disk valves, ice manifold, etc.)

PLUMBING Rough Ins - SEE PLUMB:

WATER HAMMER ARRESTORS:

11. FIXTURE - EQUAL TO "HOH" VARIOUS DESIGN REQUIRED IN PIPE:
    - Water hammer arrestors shall be provided. Water hammer arrestors will be located on all vertical closing valves (flush valves, disk valves, ice manifold, etc.)

ARCHITECT: CROMWELL

PHOTOGRAPHER: [Name]

PLUMBING SCHEDULE

INCH SHORT, TALL, TRUE:

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<tr>
<th>INCH</th>
<th>TALL</th>
<th>TRUE</th>
<th>6&quot;</th>
<th>8&quot;</th>
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<tr>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
</tr>
<tr>
<td>1/12</td>
<td>12.00</td>
<td>9.69</td>
<td>81.13</td>
<td>114.19</td>
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FIXTURE UNITS

PLUMBING Rough Ins - 4" 5" 2" 1" CVP:

1. FLOOR DRAIN:
   - Fixtures - Visual Size: 1 1/2" I.D., CAST IRON FLOOR DRAIN WITH FLANGE, INTERNAL CLAMPING COLLAR, SIPS 9" OPENING, ROUND ADJUSTABLE HEAVY DUTY CAST IRON 1 1/8" THREADED NOZZLE, BRASS STRAINER WITH HAND, ROOFING SCREWS, WITH DEEP SEAT, TRAP, PROOF SYSTEM TRAP, GLUE NIPPED, SEE PLUMB FOR SIZE.

2. TRENCH DRAIN:
   - Fixtures - Visual Size: 60" X 60" X 60" DEEP, MODULAR CHANNELS, TRENCH DRAIN, INTERNAL HUCKETS AT 10" O.C. FOR FIXING INTO CONCRETE PL, 1 1/2" INCORPORATED, BOTTLE WITH MANHOLE IN 1 1/2" AND BOLLARD, CONTINUOUS BURG. OF 6 IN TP, AND TRAFFIC RATED CLASS X GALVANIZED DUCTILE IRON DRAIN.