ARtkANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
CONSTRUCTION PLANS

ARKANSAS WELCOME CENTER
(HELENA—WEST HELENA) (S)
PHILLIPS COUNTY
ROUTE 49 SECTION 11
JOB 110536
F.A.P. STPE-ENHN(398)

ARtkANSAS HIGHWAY DISTRICT 1

VICINITY MAP
(NOT TO SCALE)

LOCATION MAP
(NOT TO SCALE)
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Arkansas State Highway and Transportation Department
P.O. Box 1290
Little Rock, Arkansas 72203-1290
Contact: Roy Griner, Section Head
Transportation Division, Facilities Management Sect.
Tel: 501-852-6500
Fax: 501-852-6501

Arkansas Department of Parks and Tourism
3220 Central Road
Little Rock, Arkansas 72203-1290
Tel: 501-324-1200
Fax: 501-324-1255

Architecture and Engineering,
The Baskin Company, LLC
201 Providence Road, Suite 200
Lauderdale, North Carolina 28853
Phone: 479-730-1000
Fax: 479-730-1061

Structural Consultant:
Engineering Consultants
101 Parrish Dr., Suite B
Lauderdale, AR 72756
Phone: 479-730-1338
Fax: 479-730-5367

Owner:
GENERAL SITE NOTES:

1. Caution-Underground utilities lie within and adjacent to the limits of construction. An attempt has been made to locate all utilities on the plans. However, all existing utilities may not be shown and the actual locations of the utilities may vary from locations shown. Prior to beginning any work, all utilities shall be marked by the contractor. The contractor shall mark the visible utilities in the locations shown on the plans. If the contractor fails to mark the utilities in the locations shown on the plans, the contractor shall maintain the utility location markings until they are no longer necessary, depending on weather conditions.

2. Embankments are to be back of cut-off curb, center strip of building, edge of pavement, or property line.

3. Coordinates given for raid are from the center of the circle.

4. The contractor is responsible for the appropriate barricades and safety precautions in all exposed areas. Exposed areas shall be adequately fenced or guarded by the contractor before leaving the job site each day.

5. Contractor is responsible for damage to existing structures, pavements, and utilities.

6. Contractor shall provide temporary access to the site during construction.

7. The contractor shall maintain the site in an orderly and clean fashion.

8. All waste materials generated from construction become the property of the contractor. The contractor shall remove the waste materials from the site and dispose of waste materials in a legal manner.

9. Provide hardhats access for all general contractors at turnouts. Sidewalk crossings must meet current ADA standards.

10. See architectural plans for building access.

11. All remaining steel shall be Class 4 or 6.

GENERAL UTILITY NOTES:

1. Caution—Underground utilities lie within and adjacent to the limits of construction. An attempt has been made to locate these utilities on the plans. However, all existing utilities may not be shown and the actual locations of the utilities may vary from locations shown. Prior to performing any type of excavation, the contractor shall contact the utility owner and make arrangements for the location of the utilities. The contractor shall mark the utility location with markings that are not longer necessary, depending on weather conditions.

2. Contractor shall provide horizontal and vertical location and size for all existing storm sewer structures, pipes, and utilities prior to construction.

3. Contractor shall provide access to all utilities for work, including water service, gas, power, etc.

4. Contractor shall coordinate with all utility companies to ensure that all utilities are marked prior to construction.

5. Contractor shall coordinate with all utility companies to ensure that all utilities are marked prior to construction.

6. Contractor shall be responsible for damage to existing structures, pavements, and utilities.

7. Contractor shall be responsible for damage to existing structures, pavements, and utilities.

8. Contractor shall provide temporary access to the site during construction.

9. The contractor shall maintain the site in an orderly and clean fashion.

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11. Provide hardhats access for all general contractors at turnouts. Sidewalk crossings must meet current ADA standards.

12. See architectural plans for building access.

13. All remaining steel shall be Class 4 or 6.

GENERAL GRADING/DRAINAGE NOTES:


2. The contractor is responsible for adequate erosion control measures. These measures will satisfy Section 102 of the CEQ standards, special provisions, and the requirements of the Arkansas Department of Environmental Quality. Erosion control devices shall be maintained until permanent erosion control is established. Perimeter control shall be placed as the clearing and grubbing operations are started.

3. Steel, conduit, and culvert areas disturbed by construction (except areas to be paved) shall comply with the standards set forth in the standard specifications.

4. Contractor shall employ a qualified material laboratory technician to test the concrete, to provide testing services during construction. Test results shall be promptly sent to the owner/developer.

5. Contractor shall maintain sidewalks on the site until the end of construction.

6. All concrete pipe shall be Class B reinforced concrete pipe with type 5 bending unless otherwise noted.

GENERAL NOTES FOR AKD JOB NO. 11036:

1. Grade line standards include grade slope shown on plans.

2. All pipe lines, power, telephone, and electrical lines to be moved or ordered by the respective owner's agreement with each owner.

3. Any equipment or appurtenance that interferes with the proposed construction and which may be the property of utility service organizations shall be moved by the owners unless otherwise specified.

4. All land monuments located within the construction area shall be protected in accordance with Section 101.12 of the standard specifications.

5. All tests that do not directly interfere with the proposed construction shall be performed by the owner. Care and observation shall be used to ensure that test results are not compromised. Tests shall be performed as follows: test results shall be considered to be as follows: test results shall be considered to be as follows.

6. This project is covered under a contract with Section 217.44 and Section 217.45, as required by the standards for the purchase of services, 2003. For pertinent regulations for the purchase of services, please refer to Section 217.44 and Section 217.45, as required by the standards for the purchase of services, 2003.

7. All flexible base and asphaltic pavements shall be paid for under the item No. 217-UNLESS EXCAVATED.

8. The existing asphalt pavement to be removed from the remaining pavement shall be separated by laying a wet base. After laying, the pavement shall be compacted by a vibratory roller in a manner that will not damage the pavement that is to remain. Any damage of the asphalt pavement that is to remain in place shall be repaired at the contractor's expense.

TELEPHONE AND COMMUNICATIONS NOTES:

1. Reference architectural plans for all building service connections.

2. All work shall be completed to fit specifications and standards and contact owner to determine coordination and installation requirements.

POWER NOTES:

1. Reference architectural plans for all building service connections.

2. All work shall be completed to fit specifications and standards and contact owner to determine coordination and installation requirements.

NOTE: All items listed below are "propose" how new construction items to be installed or built by the contractor. Contractor shall submit all items to be installed or built by the contractor. Contractor shall submit all items to be installed or built in final project plans.

UTILITY CONTACT:

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<thead>
<tr>
<th>WATER SERVICES</th>
<th>ELECTRIC SERVICES</th>
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<tr>
<td>City of Helena-West Helena</td>
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<tr>
<td>Cory McGrew</td>
<td>Rose Vogelmann</td>
</tr>
<tr>
<td>501-925-8857</td>
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<th>GAS SERVICES</th>
<th>COMMUNICATIONS</th>
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<tr>
<td>City of Helena-West Helena</td>
<td>CenturyLink</td>
</tr>
<tr>
<td>Robert Jones</td>
<td>501-522-6300</td>
</tr>
<tr>
<td>501-925-8857</td>
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</tr>
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</table>
1. EXTERIOR ADA SIGN

2. ACCESSIBLE PARKING MARK

3. FLAPOLE DETAIL

4. PEDESTAL DRINKING FOUNTAIN

5. PEDESTAL DRINKING FOUNTAIN INSTALLATION DETAILS

6. YARD HYDRANT SPLASHPAD

7. BENCH DETAIL

NOTES:
1. SIGN TO BE SOLID ALUMINUM ON A POST
2. SIGN TO BE MOUNTED NO MORE THAN 5'-8" INFROM THE STREET FACE NO MORE THAN 3'-4" POST REFERENCED FROM LEVEL OF THE FINISHED GRADE AND NOT A MINIMUM OF 5'-6"
3. TO GAIN TO THE BOTTOM OF THE SIGN
4. SEE SHEET C-501 FOR LOCATION OF RESERED PARKING SPACES
5. COLORS: TEAL AND BRONZE - TEAL AND BLACK ON FOUNTAIN"
1. ADA PARKING DETAIL

- 4" wide white strip (typ.)
- 4" wide side yellow strip (typ.)
- CONCRETE WALK 6" THICKNESS WITH 6" CLASS 7 AGGREGATE BASE
- EXTERIOR ADA SIGN (AN ACCESSIBLE)
  (see detail /C-502)
- WHEEL STOP (typ.)
  (see detail 4/C-503)
-タイプ 1: WHEELCUT
- END CURB
  (see detail 4/C-502)
- INTEGRALLY
  COLOURED CONCRETE
  WALK (see detail
  3/C-501)
- CONCRETE SKIRT
  (see detail 4/C-500)
- INSTALL ACCESSIBLE PARKING MARK (typ.)
  (see detail 2/C-500)
- CONCRETE
  STITCH
  (type B)
- CONCRETE
  CURB
  (type A)
- 4" WIDE CONCRETE FLUME
  (type)

2. SITE ENTRANCE

- 4" wide white strip (2 x 7) ft.
- 12" white strip (26 ft.)
- NOTE:
  PLACE 20 TRAFFIC DRUMS AT 20'
  O.C. ALONG THE SHOULDER
  DEMOLISH AND UPLIFT
  (CSD) ALONG THE ROAD FOR
  MAINTENANCE OF TRAFFIC.

3. CURB OPENING WITH 4" WIDE CONCRETE FLUME

- 4" WIDE CONCRETE FLUME

4. CONCRETE SKIRT

- 3/4" SEALED EXPANSION JOINT
  (TYPE 1 JOURNELL FILLER
  SYSTEM)
- CONCRETE WALK
- CONCRETE WALK 6" THICKNESS
  WITH 6" CLASS 7 AGGREGATE BASE
- LITTER RECEPTACLE
  (SEE DETAIL
  4/C-502)
- TYPE 1, WHEELCUT
- END CURB
  (see detail 4/C-502)
- INTEGRALLY
  COLORED CONCRETE
  WALK (see detail
  3/C-501)
- CONCRETE SKIRT
  (see detail 4/C-500)
- INSTALL ACCESSIBLE PARKING MARK (typ.)
  (see detail 2/C-500)
- CONCRETE
  STITCH
  (type B)
- CONCRETE
  CURB
  (type A)
- CONCRETE
  STITCH
  (type B)
- CONCRETE
  CURB
  (type A)
- 4" WIDE CONCRETE FLUME
  (type)

NOTE:
PLACE 20 TRAFFIC DRUMS AT 20'
O.C. ALONG THE SHOULDER
DEMOLISH AND UPLIFT
(CSD) ALONG THE ROAD FOR
MAINTENANCE OF TRAFFIC.
1. THE TOTAL AREA OF THE SITE IS APPROXIMATELY 9.14 ACRES. THE AREA DISTURBED BY IMPROVEMENTS IS APPROXIMATELY 0.25 ACRES.

2. GRADING SHALL BE PERFORMED IN ONE CONTINUOUS OPERATION.

3. CUT AND FILL ACTIVITY IS GREATER THAN 6' VERTICAL HEIGHT. SLOPES ARE AS SHOWN ON THE PLANS.

4. COLLECTING AND DISCHARGING SURFACE WATERS WILL BE THROUGH A COMBINED DRAINAGE AND SUB-SURFACE DRAINAGE SYSTEM.

5. EROSION AND VEGETATION CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR UPON DISTURBANCE OF THE LAND. THESE MEASURES WILL SATISFY THE REQUIREMENTS OF SECTION 1108 OF THE STANDARDS SPECIFICATION. SPECIAL PROMONTORY, THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY AND SHALL INCLUDE AS A MINIMUM:
   a. ON DISTURBED SLOPES LEFT OPEN & UNBARED FOR A PERIOD OF MORE THAN TWO (2) WEEKS, COVER WITH MATTING (ANCHORED OR SECURED) AT THE RATE OF 1.5 TONS PER ACRE.
   b. PROJECT TOPS OF SLOPE WITH SILT FENCE WHERE INDICATED. SILT FENCE SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD SHEET DRAWING TEC-1.
   c. PROVIDE RIFFLE DITCH CHECKS AS SHOWN ON PLANS AND AROUND STORM INLETS AND IN SMALES.
   d. IN THE OCCASION THAT WIND EROSION BECOMES EXCESSIVE, THE CONTRACTOR SHALL SPREAD THE CONSTRUCTION SITE WITH WATER TO CONTROL DUST.
   e. CONTRACTOR SHALL KEEP VEHICLE TRACKING OF SEDIMENT TO A MINIMUM AND SHALL CLEAN TRACKS IF TRACKING BECOMES EXCESSIVE AS DETERMINED BY THE LOCAL GOVERNMENT OR PROJECT REPRESENTATIVE.
   f. PERMANENT VEGETATION COVER WILL BE INSTALLED BY THE CONTRACTOR. COVER WILL BE:
      a. ON ALL DISTURBED AREAS NOT TO BE PAVED, SITING WITH APPROPRIATE COVER, SEE SPECIFICATIONS.
      b. CONSTRUCTION MEASURES FOR SEDIMENTATION AND EROSION CONTROL WILL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.

7. OWNER: ARKANSAS HIGHWAY DEPARTMENT
   WEST HELENA WELCOME CENTER
   WEST HELENA, AR 72791

8. CONTRACTOR TO BE DETERMINED

9. ANTICIPATED PROJECT SCHEDULE IS FOR CONSTRUCTION TO BEGIN AFTER SELECTION OF CONTRACTOR, AND RECEIPT OF REGULATORY APPROVALS. INSTALLATION OF PERMANENT VEGETATION COVER WILL BEGIN IMMEDIATELY UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

10. CONTRACTOR SHALL OBTAIN ALL GRADING PERMITS FROM THE APPROPRIATE AUTHORITIES HAVING JURISDICTION.

11. RECEIVING STREAM INFORMATION:
    UNWANTED DITCH LEADING TO THE MISSISSIPPI RIVER

PROJECT SCHEDULE TO BE COMPLETED BY CONTRACTOR

DESCRIPTION

1. INSTALLATION OF TEMPORARY SILT FENCE;
2. CLEARING OF THE SITE AND STRIPING TOPSOIL;
3. INSTALLATION OF RIFFLE DITCH CHECKS;
4. INSTALLATION OF ROLL OFF CONTAINERS;
5. CONSTRUCTION OF THE BUILDINGS, UTILITIES, STORM DRAINAGE, AND PARKING AREAS;
6. FINAL GRADING OF THE SITE;
7. INSTALLATION OF EROSION AND LANDSCAPING;
8. REMOVAL OF TEMPORARY SILT FENCE AND RIFFLE DITCH CHECKS.
NOTES:
1. USE ASPHALT BINDER (PG64-22) FOR ACHM SURFACE AND BINDER COURSES.
2. ASPHALT BINDER AND SURFACE COURSES SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO PLACING.
3. ALL MIXED AREAS USE THE FOLLOWING SECTION:
   2" ACHM SURFACE COURSE (7"
   4" ACHM BINDER COURSE (7"
   6" AGGREGATE BASE COURSE (CLAY 7"
   8" CEMENT STABILIZED SUBGRADE (8% CEMENT)
   SW-4 SELECT FILL MATERIAL AS NOTED.
   5. PAVING AREAS ARE +0.03 FROM THE EDGE OF LANE USING THE NOTED PAVEMENT, THE RV PAVING AREA IS +0.02 FROM THE EDGE OF LANE USING THE NOTED PAVEMENT, SEE SHEET C-120 FOR SPECIFIC ELEVATION POINTS.
   6. ACHM BINDER AND SURFACE MIX DESIGNS - SEE SECTION 4.6.3 STANDARD SPEC FOR HIGHWAY CONSTRUCTION.

BASIS OF ESTIMATE:
ACHM SURFACE COURSE (2"
94.5% MINERAL AGGREGATE, 5.5% ASPHALT BINDER.
ACHM BINDER COURSE (4"
90.1% MINERAL AGGREGATE, 4.8% ASPHALT BINDER.

TYPICAL SECTION OF LOOP ROAD

SECTIONS WHERE PARKING AREAS EXTEND AS NOTED FROM THE EDGE OF LANE MAINTAINING THE SLOPES AS SHOWN ON SHEET C-120.
**TOE WALL DETAIL FOR CONCRETE DITCH PAVING**

**GENERAL NOTES:**

- THE FULL WIDTH OF EACH SECTION SHALL BE POURED MONolithically.
- TOE WALLS TO BE CONSTRUCTED FULL WIDTH AT EACH END OF DITCH PAVING, AND POURED MONolithically.
- SOLID SEES ALONG DITCH PAVING TO BE PLACED WITHIN 14 DAYS OF DITCH PAVING CONSTRUCTION.
- 1'-WIDE TRANSVERSE EXPANSION JOINTS SHALL BE PLACED IN CONCRETE DITCH PAVING AT 45-INTERVALS. THE SPACE SHALL BE FILLED WITH APPROVED JOINT FILLER COMPLIANT WITH AMPLIFIED MOLDS.

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**ENERGY DISSIPATORS (IN SCALE)**

- NUMBER OF ELEMENTS PER ROW VARIES WITH WIDTH OF PAVING SPECIFIED.
- ENERGY DISSIPATORS TO BE USED FOR THE ENTIRE LENGTH OF DITCH WHEN SLOPE OF DITCH PAVING EXCEEDS 1%. THE DISSIPATORS WILL NOT BE PAIRED FOR DIRECTLY BUT SHALL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID FOR CONCRETE DITCH PAVING.

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**ARKANSAS STATE HIGHWAY COMMISSION**

**CONCRETE DITCH PAVING**

**STANDARD DRAWING CDP-1**
CONCRETE COMBINATION CURB AND GUTTER

DETAIL OF GUTTER SLOPE
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.

LONGITUDINAL SECTION

ELEVATION

ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB

NOTE: USE MODIFIED CURB AS SPECIFIED ON STANDARD DETAILS. MODIFICATIONS TO CURB WILL BE CONSIDERED INCURRED AT THE RATE PER UNIT FOR THE TYPE OF CURB OR CROWN AND CURB SPECIFIED.

ARKANSAS STATE HIGHWAY COMMISSION
CURBING DETAILS

STANDARD DRAWING CG-I
CLEARING AND GRUBBING

CONSTRUCTION SEQUENCE
1. PLACE PERIMETER CONTROLS (I.E. SILT FENCES, DIVERSION DITCHES, SEGMENT BASINS, ETC.)
2. PERFORM CLEARING AND GRUBBING OPERATION.

EXCAVATION

EXISTING GROUND

INTERCEPTOR OR DIVERSION DITCH

EXISTING GROUND

NOTE: NUMBER OF PHASES WILL VARY, THOSE SHOWN FOR ILLUSTRATION.

GENERAL NOTE
ALL CUT SLOPES SHALL BE DRESSED, PREPARED, SEeded AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE EXCAVATED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

CONSTRUCTION SEQUENCE
1. EXCAVATE AND STABILIZE INTERCEPTOR AND/OR DIVERSION DITCHES.
2. PERFORM PHASE 1 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
3. PERFORM PHASE 2 EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING.
4. PERFORM FINAL PHASE EXCAVATION, PLACE PERMANENT OR TEMPORARY SEEDING, STABILIZE DITCHES CONSTRUCT DITCH CHECK DIVERSION DITCHES, SEQUENCE BASINS OR OTHER EROSION CONTROL DEVICES AS REQUIRED.

EMBANKMENT

CONSTRUCTION SEQUENCE
1. CONSTRUCT DIVERSION DITCHES CHECK DIVERSION DITCHES CHECK DIVERSION DITCHES, CONSTRUCT DITCHES.
2. PLACE PHASE 1 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING, EMBANKMENTS ARE TO BE TEMPORARILY ABANDONED FOR A PERIOD OF GREATER THAN 30 DAYS.
3. PLACE PHASE 2 EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING.
4. PLACE FINAL PHASE EMBANKMENT WITH PERMANENT OR TEMPORARY SEEDING, COMPLETE EROSION CONTROL DEVICES AND SLOPE DRANS AND MAINTAIN UNITS, ENTIRE SLOPES ARE STABILIZED.

NOTE:
NUMBER OF PHASES WILL VARY, THOSE SHOWN FOR ILLUSTRATION.

GENERAL NOTE
ALL EMBANKMENT SLOPES SHALL BE DRESSED, PREPARED, SEeded AND MULCHED AS THE WORK PROGRESSES. SLOPES SHALL BE CONSTRUCTED AND STABILIZED IN EQUAL INCREMENTS NOT TO EXCEED 25 FEET, MEASURED VERTICALLY.

TEMPORARY EROSION CONTROL DEVICES

ARKANSAS STATE HIGHWAY COMMISSION

STANDARD DRAWING TEC-3
UPHOLSTERED BENCH GENERAL NOTES:
1. LIGHTLY SEAL THE EDGES OF 5/8" PLYWOOD SEAT BASE TO PREVENT WASH ON FRAME.
2. INSIDE FÖRÆDLIG POLYURETHANE FROM DRY, AND A SMOKE BETWEEN 87 AND 110 LBP PER CM² AND A FANCY COVERING CAN BE FOUND IN ALL LBP MATERIALS. FABRIC SHEET MUST BE THE REQUIREMENTS OF THE DESIGNERS. BUSH 1/8" CONSIDERING TECHNICAL SPECIFICATIONS UNLESS NO. 131. 
3. 
4. 
5. 
6. 
7. 
8. 

A BUILT-IN BENCH, TOP SECTION

BUILT-IN BENCH, FRONT ELEVATION

C BENCH END SECTION

BUILT-IN BENCH, FRONT SECTION
WINDOW SCHEDULE

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<tr>
<td>2</td>
<td>3'-0&quot; x 6'-0&quot;</td>
<td>METAL CLAD WOOD</td>
<td>2</td>
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<tr>
<td>3</td>
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DOOR SCHEDULE

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</tr>
<tr>
<td>5</td>
<td>3'-0&quot; x 6'-0&quot;</td>
<td>METAL CLAD WOOD</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>3'-0&quot; x 6'-0&quot;</td>
<td>WOOD</td>
<td>6</td>
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NOTE: Dimensions are provided for query only. They are subject to change. Actual measurements will be obtained in the field prior to ordering window units.
### WATER HEATER SCHEDULE

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<th>No.</th>
<th>EOH-1</th>
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<td>2.1</td>
<td>ELECTRIC TANK</td>
<td>ELECTRIC INSTANT</td>
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<tr>
<td>2.2</td>
<td>AO SMITH</td>
<td>BOSCH</td>
</tr>
<tr>
<td>2.3</td>
<td>9.0 kW</td>
<td>2.0 GPM</td>
</tr>
<tr>
<td>2.4</td>
<td>46 GPM</td>
<td>17.5 GPM</td>
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<tr>
<td>2.5</td>
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<td>607</td>
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<tr>
<td>2.6</td>
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</tbody>
</table>

**Notes:**
- 230v/120, 38 AMPS. SET DISCHARGE TEMP AT 110°F (43°C).
- PROVIDE HOT WATER CIRCULATION PUMP (MPC-1).
- 3. 230v/120, 80 AMPS. SET DISCHARGE TEMP AT 110°F (43°C).
GEOTHERMAL WELL FIELD NOTES:

1. WELL FIELD SHALL BE INSTALLED BY GEOTHERMAL WELL FIELD CONTRACTOR WITH A MINIMUM OF 5 YEARS PRACTICAL EXPERIENCE IN INSTALLATION OF GEOTHERMAL WELL FIELDS.

2. ALL GEOTHERMAL WELL FIELD OUTSIDE OF THE MECHANICAL ROOM SHALL BE SUBJ TO HOPE-PIPING DESIGN SPECIFICALLY FOR USE IN GEOTHERMAL DIRECT-BURIAL APPLICATION.

3. WELL FIELD DESIGN IS BASED ON PRELIMINARY SITE INFORMATION. OWNER WILL COMPLETE A SOIL CONDUCTIVITY TEST PRIOR TO CONSTRUCTION. WELLFIELD LAYOUT MAY BE ADJUSTED BASED ON THE RESULTS OF THIS TESTS. CONTRACTOR SHALL VERIFY FINAL DESIGN WITH OWNER PRIOR TO STARTING WELLFIELD CONSTRUCTION.

4. ALL WELL HOLES SHALL BE 4" IN DIAMETER AND DRILLED TO A DEPTH OF 400'. ALL HOLES SHALL REMAIN OPEN FOR A MINIMUM OF 7 DAYS BEFORE OPERATING.

5. ALL WELL HOLES SHALL BE DRILLED WITH A BENEFICIAL MATURE FOR SPECIFICATIONS.

6. WELL HEADS SHALL BE HOPE-PIPING SPECIFICALLY DESIGNED FOR GEO-HEAT WELL FIELD WITH PRECIPITATED 1/2-BENDS, AND INSTALLED AS A CONTINUOUS NO JOINT SECTION INTO THE WELL HOLES.

7. ALL HOPE-PIPING SHAL BE BURIED AT A MINIMUM DEPTH OF 80" BELOW FINISHED GRADE.
### GEOTHERMAL LOOP PUMP SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>SERVICE: TYPE</th>
<th>LOCATION</th>
<th>DESIGN</th>
<th>DESIGN</th>
<th>FLOW</th>
<th>HEAD</th>
<th>WAT.</th>
<th>HP</th>
<th>RPM</th>
<th>S.U.G.</th>
<th>FACE</th>
<th>FLEX</th>
<th>M.P.</th>
<th>MANUFACTURER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP-1</td>
<td>LOOP PUMP</td>
<td>MEDIA ROOM: END SUCTION</td>
<td>30</td>
<td>10</td>
<td>23</td>
<td>8</td>
<td>0</td>
<td>1750</td>
<td>1.0</td>
<td>1.0</td>
<td>FLEX</td>
<td>FLEX</td>
<td>PEST SPEC</td>
<td>TACO RVX550</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>CLP-2</td>
<td>LOOP PUMP</td>
<td>MEDIA ROOM: END SUCTION</td>
<td>30</td>
<td>10</td>
<td>23</td>
<td>8</td>
<td>0</td>
<td>1750</td>
<td>1.0</td>
<td>1.0</td>
<td>FLEX</td>
<td>FLEX</td>
<td>PEST SPEC</td>
<td>TACO RVX550</td>
<td>1, 2, 3</td>
</tr>
</tbody>
</table>

**NOTES:**
1. ELECTRICAL - 240V/30A 
2. VERTICAL BOREholes CLAMP COUPLED PUMP, PROVIDE PUMP SUPPORT FOR MAINTENANCE REQUIREMENTS. 
3. MOUNTING CLP-1 AND CLP-2 SHALL ALTERNATE WEEKLY AS THE PRIMARY LOOP PUMP.

### HEAT PUMP SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>LOCATION</th>
<th>BASE OF BRICK</th>
<th>MODEL</th>
<th>INPUT</th>
<th>AIR</th>
<th>OUTSIDE</th>
<th>WATER</th>
<th>UNIT</th>
<th>COOLING</th>
<th>HEATING</th>
<th>F.I.R.</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP-2</td>
<td>MECHANICAL</td>
<td>MEDIA ROOM</td>
<td>2400</td>
<td>275</td>
<td>15.6</td>
<td>12.8</td>
<td>6.2</td>
<td>42</td>
<td>240CFM/3/4</td>
<td>32.0/70</td>
<td>1.3, 4.3</td>
<td></td>
</tr>
<tr>
<td>HP-2</td>
<td>MEDIA ROOM</td>
<td>MEDIA ROOM</td>
<td>650</td>
<td>170</td>
<td>7.6</td>
<td>14.5</td>
<td>6.2</td>
<td>42</td>
<td>240CFM/3/4</td>
<td>32.0/70</td>
<td>1.3, 4.3</td>
<td></td>
</tr>
<tr>
<td>HP-3</td>
<td>RESIDUAL MECHANICAL</td>
<td>MEDIA ROOM</td>
<td>600</td>
<td>650</td>
<td>4.2</td>
<td>12.2</td>
<td>6.2</td>
<td>42</td>
<td>240CFM/3/4</td>
<td>32.0/70</td>
<td>1.3, 4.3</td>
<td></td>
</tr>
<tr>
<td>HP-6</td>
<td>RESIDUAL MECHANICAL</td>
<td>ELECTRICAL</td>
<td>600</td>
<td>650</td>
<td>4.2</td>
<td>12.2</td>
<td>6.2</td>
<td>42</td>
<td>240CFM/3/4</td>
<td>32.0/70</td>
<td>1.3, 4.3</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. COOLING CAPACITIES BASED UPON 80° DEG. F. W. (90° DEG. F. OUT) AIR TEMPERATURES. HEATING CAPACITIES BASED UPON 70° DEG. F. OUT, 60° DEG. F. (98° DEG. F. OUT) AIR TEMPERATURE.
2. PROVIDE S. A. T. EXTRUSIONS FOR EACH PUMP TO BE MOUNTED IN LOCATION INDICATED.
3. PROVIDE FILTER FRAME ON EACH PUMP UNIT UNLESS OTHERWISE NOTED. PROVIDE MINIMUM 8" FILTERS OF 80% CAPACITY. 2 EXTRA SETS OF FILTERS FOR UNIT.
4. ALL UNITS MUST BE SET OUTSIDE COMING PRESSURE FOR AIR FLOW. 
5. PROVIDE ALL UNITS WITH TWO VALVE AIDS WITH WATER STOP-OUT CONTROLS. WATER FLOW TO UNIT SHALL BE SPLIT-SHIFT MODE UNITS IS INACTIVE.
6. PROVIDE PUMP WITH BACK-UP START STOPS AS INDICATED. EACH PUMP SHALL ONLY ACT AS EMERGENCY AIR PUMP IN THE EVENT OF HEAT PUMP COMPRESSION OR GEOTHERMAL LOOP FAILURE. 
7. PROVIDE UNIT WITH 2 PROGRAMMABLE THERMOSTATS FOR AUTO/COMBINATION. THERMOSTAT MUST BE MOBILE ADAPTABLE TO UNIT. LOCATE THERMOSTATE TEMPERATURE AS REQUESTED OR PLACED.

### ENERGY RECOVERY VENTILATOR SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>LOCATION</th>
<th>BASE OF BRICK</th>
<th>MODEL</th>
<th>INPUT</th>
<th>OUTSIDE</th>
<th>WATER</th>
<th>UNIT</th>
<th>CONFIGURATION</th>
<th>FILTER</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXH-1</td>
<td>MECHANICAL</td>
<td>MEDIA ROOM</td>
<td>1300</td>
<td>1300</td>
<td>40/70</td>
<td>180</td>
<td>480</td>
<td>240CFM/3/4</td>
<td>14.6/30</td>
<td>1.2, 4, 5</td>
</tr>
</tbody>
</table>

**NOTES:**
1. UNIT SHALL RUN CONTINUOUSLY DURING OCCUPIED TIMES. 
2. UNIT TO HAVE LIGHT-REED FREQUENCY METER WITH ELECTRONIC BODIED TEMPERATURE CONTROLS. 
3. PROVIDE 1" FILTERS WITH 120MM. PROVIDE 2 EXTRA SETS OF FILTERS AS INDICATED. 
4. PROVIDE REMOTE CONTROL PANEL WITH 7-DAY PROGRAMMABLE SETTINGS/ASHRAE Schedule and 80% MAXIMUM HUMIDITY FOR SPECIFICATIONS.

### INTAKE & EXHAUST LOUVER/PENTHOUSE SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>SERVICE: C.F.M.</th>
<th>SP IN:</th>
<th>DAMPER</th>
<th>WIDTH X HEIGHT (INCHES)</th>
<th>VELOCITY (FT./MIN.)</th>
<th>BIRD SCREEN</th>
<th>MANUFACTURER/WEST NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVR-1</td>
<td>INTAKE</td>
<td>4RV-1</td>
<td>1,350</td>
<td>0.05</td>
<td>NONE</td>
<td>24/50</td>
<td>5.0</td>
<td>YES</td>
</tr>
<tr>
<td>LVR-2</td>
<td>COND.</td>
<td>3RV-1</td>
<td>1,060</td>
<td>0.05</td>
<td>NONE</td>
<td>24/50</td>
<td>5.0</td>
<td>YES</td>
</tr>
<tr>
<td>LVR-3</td>
<td>EXHAUST</td>
<td>4RV-1</td>
<td>1,260</td>
<td>0.05</td>
<td>NONE</td>
<td>20/100</td>
<td>2.2</td>
<td>YES</td>
</tr>
</tbody>
</table>

**NOTE:** FINAL FINISH COLOR TO BE SELECTED BY ARCHITECT. PROVIDE CURB TO MATCH ROOF CONSTRUCTION AS APP.

### EXHAUST FAN SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>TYPE</th>
<th>NO.</th>
<th>MANUFACTURER: COBA</th>
<th>DAMPER</th>
<th>INLET</th>
<th>OUTLET</th>
<th>MAINTENANCE SHEL</th>
<th>ELECTRICAL</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ-1</td>
<td>MOTOR</td>
<td>2HP</td>
<td>3PH 230/460</td>
<td>1/2 HP</td>
<td>2.5 hp</td>
<td>100</td>
<td>115/230</td>
<td>1/2</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTE:** 
1. PROVIDE WALL MOUNTED SWITCH, GRAVITY DAMPER, AND OSHA CURB.

### GRILLE AND REGISTER SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>DESCRIPTION</th>
<th>BASIS OF</th>
<th>FRAME</th>
<th>DAMPER</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD-1</td>
<td>CEILING</td>
<td>TITUS</td>
<td>TSC</td>
<td>24&quot;X24&quot;</td>
<td>FACE</td>
</tr>
<tr>
<td>SD-2</td>
<td>CEILING</td>
<td>TITUS</td>
<td>TSC</td>
<td>24&quot;X24&quot;</td>
<td>FLAT</td>
</tr>
<tr>
<td>LD-1</td>
<td>CEILING</td>
<td>TITUS</td>
<td>TSC</td>
<td>48&quot;</td>
<td>8&quot;</td>
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<tr>
<td>RG-1</td>
<td>RETURN</td>
<td>TITUS</td>
<td>50&quot;</td>
<td>8&quot;</td>
<td>FACE</td>
</tr>
<tr>
<td>RG-2</td>
<td>RETURN</td>
<td>TITUS</td>
<td>50&quot;</td>
<td>8&quot;</td>
<td>FACE</td>
</tr>
<tr>
<td>EG-1</td>
<td>EXHAUST</td>
<td>TITUS</td>
<td>TSC</td>
<td>24&quot;X24&quot;</td>
<td>FACE</td>
</tr>
<tr>
<td>EG-2</td>
<td>EXHAUST</td>
<td>TITUS</td>
<td>TSC</td>
<td>24&quot;X24&quot;</td>
<td>FACE</td>
</tr>
</tbody>
</table>

**NOTES:**
1. FINISH WITH MANUFACTURER'S STAINLESS STEEL FACE FINISH. 
2. EXIT PEEP SIZE SMALL WITH GYPSUM FACE SIZE. 
3. FINISH PAINT COLOR TO BE SELECTED BY ARCHITECT TO MATCH SURROUNDINGS. 
4. PROVIDE T-4 SURFACE MOUNT SIZE FOR PUMP. 
5. MAXIMUM AC H.U. OF 36 AND MAXIMUM VOLUME PRESSURE OF 250 IN/250 GPM |

### ELECTRIC UNIT HEATER SCHEDULE

<table>
<thead>
<tr>
<th>MARK</th>
<th>UNIT:</th>
<th>LHR-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANUFACTURER</td>
<td>MODEL</td>
<td>NOTES</td>
</tr>
<tr>
<td>SAC</td>
<td>SUL</td>
<td>2</td>
</tr>
</tbody>
</table>

**NOTES:**
1. UNIT MOUNTED CORRECT AND THERMOSTAT WITH WALL MOUNTING. 

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*Data Source: ARKANSAS WELCOME CENTER*
GENERAL NOTES: (THIS DRAWING)

A. ALL ROOF MOUNTED EQUIPMENT, FUELS, STACKS, LIGHTS, ETC. SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEM BY A 6" BARE COPPER BONDING CONDUCTOR OR COPPER BONDING STRAP PER NFPA 70E.

B. LOCATE AIR TERMINALS AS SHOWN. TAKE CARE TO ENSURE THAT ALL POINTS ARE WITHIN 3'-0" OF OUTSIDE BUILDING EDGE, OUTSIDE CORNERS, AND RIDGE ENDS. MAXIMUM SPACING SHALL NOT EXCEED 20'-0".

C. AIR TERMINALS SHALL PROJECT A MINIMUM OF 10" ABOVE ANY PROTECTED VERSAT.

D. MAINTAIN HORIZONTAL OR DOMINANT COURSE OF MAIN CONDUCTOR. ENSURE THAT ALL BENDS HAVE AT LEAST AN 8" RADIUS AND DO NOT EXCEED 90°.

E. ATTACH ALL EXPOSED ROOF, DORM LEADS AND BENDING CABLES AT 30" ON CENTERS, MAX. VERIFY CORRECTNESS OF ACHIEVING ON ROOFING MATERIAL PRIOR TO INSTALLATION.

F. DOWNCONDUCTORS SHALL NOT BE LESS THAN 1" BELOW FINISHED GIRD AND 24" FROM FOUNDATION WALL.

G. BEND LIGHTNING PROTECTION GROUND TO ELECTRIC, TELEPHONE, AND OTHER BUILDING GROUND SYSTEMS AS SHOWN AND AS REQUIRED BY CODE.

H. SYSTEM SHALL BE INSTALLED AS SHOWN TO ENSURE PROPER CODE COMPLIANCE AND SYSTEM CERTIFICATION. ANY MAJOR MODIFICATIONS SHALL BE SUBMITTED FOR ENGINEERING APPROVAL PRIOR TO CONSTRUCTION.

I. "AS-BUILT" DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH CERTIFICATION PROCEDURES. UL AND LPI CERTIFICATION MUST BE PROVIDED AT THE END OF PROJECT.

J. ALL MATERIALS SHALL BE UL LISTED AND LABELLED.

K. ALL BELOW GRADE CONNECTIONS AND BUILDING STEEL BONDING POINTS SHALL BE ELEThemat ISOLATION.
POWER RISER DIAGRAM

SCALE 1/4"=1'-0"

A