# WILMA P. MANKILLER HEALTH CENTER EXPANSION

## BID PACKAGE 02

## (CIVIL / ARCHITECTURAL / STRUCTURAL / MEP)

### INDEX OF DRAWINGS - BID PACKAGE 02

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| GENERAL | | | | | | |
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| CIVIL | | | | | | |
| C003 | GENERAL NOTES | ■ | | | | |
| C004 | WALL GENERAL NOTES | ■ | | | | |
| CS103 | ENLARGED EXISTING SITE PLAN | ■ | | | | |
| CS104 | ENLARGED EXISTING SITE PLAN | ■ | | | | |
| C100 | OVERALL PROPOSED SITE PLAN | ■ | | | | |
| C101 | ENLARGED PROPOSED SITE PLAN | ■ | | | | ■ |
| C102 | ENLARGED PROPOSED SITE PLAN | ■ | | | | |
| CP100 | OVERALL PAVING AND STRIPING PLAN | ■ | | | | |
| CP101 | ENLARGED PAVING PLAN | ■ | | | | ■ |
| CP102 | ENLARGED PAVING PLAN | ■ | | | | |
| CP103 | ENLARGED STRIPING PLAN | ■ | | | | |
| CP104 | ENLARGED STRIPING PLAN | ■ | | | | |
| CP105 | OVERALL JOINTING PLAN | ■ | | | | |
| CP500 | PAVING DETAILS | ■ | | | | |
| CP501 | STRIPING & HANDICAP DETAILS | ■ | | | | |
| CP502 | JOINTING DETAILS | ■ | | | | |
| CG100 | OVERALL GRADING PLAN | ■ | | | | |
| CG101 | ENLARGED GRADING PLAN | ■ | | | | ■ |
| CG102 | ENLARGED GRADING PLAN | ■ | | | | |
| CG103 | ENLARGED GRADING PLAN | ■ | | | | |
| CG104 | ENLARGED GRADING PLAN | ■ | | | | |
| CG105 | ENLARGED GRADING PLAN | ■ | | | | |
| CG106 | ENLARGED GRADING PLAN | ■ | | | | |
| CG107 | ENLARGED GRADING PLAN | ■ | | | | |
| CG300 | RETAINING WALL PLAN | ■ | | | | ■ |
| CG301 | RETAINING WALL PROFILES | ■ | | | | ■ |
| CG302 | RETAINING WALL PLAN | ■ | | | | |
| CG303 | RETAINING WALL PROFILES | ■ | | | | |
| CG304 | RETAINING WALL PROFILES | ■ | | | | |
| CG500 | RAMP & STAIR WALL DETAILS | ■ | | | | ■ |
| CG501 | STAIR DETAILS | ■ | | | | ■ |
| CG502 | STAIRS & RAMP DETAILS | ■ | | | | |
| CG503 | DOCK WALL DETAILS | ■ | | | | |
| CG504 | WALLS A, B & C DETAILS | ■ | | | | |
| CG505 | WALLS A, B & C DETAILS | ■ | | | | |
| CU100 | UTILITY PLAN | ■ | | | | ■ |
| CU101 | OVERALL STORM PLAN | ■ | | | | |
| CU102 | ENLARGED STORM PLAN | ■ | | | | |
| CU500 | WATER DETAILS | ■ | | | | |
| CU501 | STORM DETAILS | ■ | | | | |
| CU502 | CURB INLET DETAILS | ■ | | | | |
| CU503 | SEWER DETAILS | ■ | | | | |
| ARCHITECTURAL | | | | | | |
| API | PROJECT INFORMATION | ■ | | | | |
| AL0.00 | LIFE SAFETY CODE COMPLIANCE INFORMATION | ■ | | | | |
| AL1.01 | LIFE SAFETY PLAN LEVEL 01 | ■ | | | | ■ |
| AL2.01 | LIFE SAFETY PLAN LEVEL 02 | ■ | | | | |
| AS01 | SITE PLAN | ■ | | | | |
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| A1.02 | OVERALL FLOOR PLAN LEVEL 02 | ■ | | | | |
| A1.11 | FLOOR PLAN LEVEL 01 SECTOR 01 | ■ | | ■ | | ■ |
| A1.12 | FLOOR PLAN LEVEL 01 SECTOR 02 | ■ | | | | ■ |
| A1.21 | FLOOR PLAN LEVEL 02 SECTOR 01 | ■ | ■ | | | ■ |
| A1.22 | FLOOR PLAN LEVEL 02 SECTOR 02 | ■ | | | | ■ |
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| A1.40 | ENLARGED TOILET PLANS | ■ | | | | |
| A2.01 | OVERALL EXTERIOR ELEVATIONS | ■ | ■ | | | |
| A2.02 | ENLARGED EXTERIOR ELEVATIONS | ■ | ■ | | | |
| A2.03 | ENLARGED EXTERIOR ELEVATIONS | ■ | ■ | | | |
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| A4.01 | WALL SECTIONS | ■ | | | | |
| A4.02 | WALL SECTIONS | ■ | | | | |
| A4.10 | STAIR PLANS AND SECTIONS | ■ | | | | |
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| A5.10 | ROOF DETAILS | ■ | | | | |
| A5.20 | EXTERIOR PLAN DETAILS | ■ | | | | |
| A5.21 | EXPANSION JOINTS | ■ | | | | |
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| A6.02 | PARTITION FRAMING / HEAD DETAILS | ■ | ■ | | | ■ |
| A6.10 | DOOR SCHEDULE / INFORMATION | ■ | ■ | ■ | | ■ |

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| A6.20 | STANDARD TOILET LAYOUT / ACCESSORIES | ■ | ■ | | | |
| A6.21 | SHOWER DETAILS | ■ | | | | |
| A6.30 | INTERIOR SUPPORT DETAILS | ■ | | | | |
| A6.40 | INTERIOR PLAN DETAILS | ■ | | | | |
| A7.00 | INTERIOR FINISH SCHEDULE, LEGEND & WALL PROTECTION | ■ | | | | |
| A7.01 | WALL PROTECTION, TRANSITION & THRESHOLD DETAILS | ■ | | | | |
| A7.11 | FINISH PLAN LEVEL 01 SECTOR 01 | ■ | | | | |
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| A7.13 | FINISH PLAN LEVEL 02 SECTOR 01 | ■ | ■ | | | |
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| A9.12 | CEILING PLAN LEVEL 01 SECTOR 02 | ■ | | | | ■ |
| A9.21 | CEILING PLAN LEVEL 02 SECTOR 01 | ■ | ■ | | | ■ |
| A9.22 | CEILING PLAN LEVEL 02 SECTOR 02 | ■ | | | | ■ |
| A9.30 | CEILING DETAILS | ■ | | | | |
| A10.00 | SIGNAGE SCHEDULE & ELEVATIONS | ■ | | | | ■ |
| A10.01 | SIGNAGE ELEVATIONS | ■ | | | | ■ |
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| P2.14 | DRAIN PLAN LEVEL 02 SECTOR 01 | ■ | | | | ■ |
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| P2.16 | OVERALL ROOF PLAN | ■ | | | | |
| P2.17 | ROOF PLAN SECTOR 01 | ■ | | | | |
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| P2.19 | ENLARGED DRAIN PLANS | ■ | | | | |
| P2.20 | PLUMBING DRAIN/VENT ISOMETRIC | ■ | | | | ■ |
| P2.21 | PLUMBING DRAIN/VENT ISOMETRIC | ■ | | | | |
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| P2.24 | ROOF DRAIN ISOMETRIC | ■ | | | | |
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| P3.11 | SUPPLY PLAN LEVEL 01 SECTOR 01 | ■ | | | | ■ |
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| P3.13 | OVERALL LEVEL 02 SUPPLY PLAN | ■ | | | | |
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| P3.16 | ENLARGED SUPPLY PLANS | ■ | | | | |
| P3.17 | ENLARGED MED GAS SUPPLY PLANS | ■ | | ■ | | |
| MECHANICAL | | | | | | |
| MEP1.00 | ENLARGED MECHANICAL ROOM | ■ | | | | |
| MEP1.10 | SECTIONS | ■ | | | | |
| M1.01 | MECHANICAL NOTES AND SCHEDULES | ■ | | ■ | | ■ |
| M1.02 | MECHANICAL SCHEDULES | ■ | ■ | | | |
| M1.03 | MECHANICAL SCHEDULES | ■ | | | | |
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| M3.01 | MECH REQS PLAN LEVEL 01 SECTOR 01 | ■ | | | | ■ |
| M3.02 | MECH REQS PLAN LEVEL 01 SECTOR 02 | ■ | | | | |
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| M4.02 | OVERALL MECH PLAN LEVEL 02 | ■ | ■ | | | |
| M4.03 | OVERALL MECH ROOF PLAN | ■ | | ■ | | |
| M4.04 | OVERALL MECH MAINTENANCE BUILDING PLAN | ■ | | | | |
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| M5.02 | MECH PLAN LEVEL 01 SECTOR 02 | ■ | | | | ■ |
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| M6.01 | OVERALL MECH CEILING PLAN LEVEL 01 | ■ | | | | ■ |
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| M8.04 | MECH HYD PLAN LEVEL 01 SECTOR 01 | ■ | | | | |
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| M8.10 | ENLARGED MECH. ROOM HYDRONIC PLAN | ■ | ■ | | | |
| M8.11 | HYDRONIC PIPING DIAGRAMS | ■ | ■ | | | |
| M9.01 | MECHANICAL CONTROLS | ■ | | | ■ | |
| M9.02 | MECHANICAL CONTROLS | ■ | | | ■ | |
| M9.03 | MECHANICAL CONTROLS | ■ | | | ■ | |
| M10.01 | MECH AXONOMETRIC PLAN LEVEL 01 | ■ | | | | ■ |
| M10.02 | MECH AXONOMETRIC PLAN LEVEL 02 | ■ | | | | |
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| E1.01 | ELECTRICAL NOTES AND LEGEND | ■ | ■ | | | ■ |
| E1.02 | POWER PLAN LEVEL 01 SECTOR 01 | ■ | | | ■ | |
| E1.03 | POWER PLAN LEVEL 01 SECTOR 02 | ■ | | | | |
| E1.04 | POWER PLAN LEVEL 02 SECTOR 01 | ■ | ■ | | | |
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| E1.06 | POWER PLAN LEVEL 01 SECTOR 01 NORTH | ■ | | | ■ | ■ |
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| E1.11 | POWER PLAN LEVEL 01 SECTOR 02 SOUTH | ■ | | | | ■ |
| E1.13 | MAINTENANCE MECH YARD POWER/LIGHTING | ■ | | | | |
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| E1.18 | MECH POWER PLAN ROOF | ■ | | | ■ | |
| E1.19 | FIRE ALARM LEGEND AND NOTES | ■ | | | | |
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| E1.22 | SYSTEMS PLAN LEVEL 02 SECTOR 01 | ■ | | ■ | | ■ |
| E1.23 | SYSTEMS PLAN LEVEL 02 SECTOR 02 | ■ | | | | |
| E1.24 | FIRST FLOOR CABLE TRAY PLAN | ■ | | | | ■ |
| E1.25 | SECOND FLOOR CABLE TRAY PLAN | ■ | | | ■ | ■ |
| E2.01 | ZONING PLAN LEVEL 01 SECTOR 01 | ■ | ■ | | | |
| E2.02 | ZONING PLAN LEVEL 01 SECTOR 02 | ■ | | | | |
| E2.03 | ZONING PLAN LEVEL 02 SECTOR 01 | ■ | ■ | | | |
| E2.04 | ZONING PLAN LEVEL 02 SECTOR 02 | ■ | | | | |
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| E2.06 | NORTH SECTOR 1 ENLARGED LIGHTING PLAN | ■ | ■ | | | |
| E2.07 | CENTER SECTOR 1 ENLARGED LIGHTING PLAN | ■ | ■ | | | ■ |
| E2.08 | SOUTH SECTOR 1 ENLARGED LIGHTING PLAN | ■ | ■ | | | |
| E2.09 | NORTH SECTOR 2 ENLARGED LIGHTING PLAN | ■ | ■ | | ■ | |
| E2.10 | CENTER SECTOR 2 ENLARGED LIGHTING PLAN | ■ | ■ | | | ■ |
| E2.11 | NORTH SECTOR 1 LEVEL 02 ENLARGED LIGHTING PLAN | ■ | ■ | | | |
| E2.12 | SOUTH SECTOR 1 LEVEL 02 ENLARGED LIGHTING PLAN | ■ | ■ | | | |
| E2.13 | LIGHTING PLAN LEVEL 02 SECTOR 02 | ■ | ■ | | | |
| E3.01 | ELECTRICAL SCHEDULES AND RISER | ■ | ■ | | | |
| E3.02 | PANEL SCHEDULES | ■ | ■ | | ■ | ■ |
| E3.03 | PANEL SCHEDULES | ■ | ■ | ■ | ■ | |
| E3.04 | PANEL SCHEDULES | ■ | ■ | | ■ | |
| E3.05 | ELECTRICAL DETAILS | ■ | ■ | | | |

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| EQUIPMENT | | | | | | |
| EQ1.11 | EQUIPMENT PLAN LEVEL 01 SECTOR 01 | ■ | | | | ■ |
| EQ1.12 | EQUIPMENT PLAN LEVEL 01 SECTOR 02 | ■ | | | | ■ |
| EQ1.21 | EQUIPMENT PLAN LEVEL 02 SECTOR 01 | ■ | | | | |
| Grand total: 226 | | | | | | |

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STRUCTURAL ENGINEER

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HOUSTON, TX 77002
(281) 589-5900

FIRE PROTECTION / LIFE SAFETY

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(918) 382-9120

EQUIPMENT PLANNER


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STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION — TRIBAL SEAL — SEPT. 6, 1839

WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 2/18/2020 | BID PACKAGE 02 - ADD 04 |
| 3 | 3/30/2020 | BID PACKAGE 02 - ASI 03 |
| 4 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
G0.02

COVER / INDEX

PROPOSED CURB, RE: CP101 FOR PLAN & CP500 FOR DETAILS

PROPOSED RETAINING WALL RE: CG300 FOR PLAN & CG301 FOR PROFILE RE: CG504 FOR DETAILS

PROPOSED DUMPSTER AREA

PROPOSED WHEEL STOPS (TYP) RE: CP501 & FOR DETAILS

PROPOSED STAIRS & RAMPS AREA RE: CG302-CG304 FOR WALL PLAN & PROFILES RE: CG500 FOR WALL DETAILS & DIMENSION RE: CG501-CG502 FOR SECTION DETAILS

PROPOSED HANDICAP PARKING RE: CP103 FOR PLAN & CP501 FOR DETAILS

PROPOSED STAIRS RE: CG500 FOR DETAILS

PROPOSED WALL RE: CP101 & CG500 FOR PLAN & STRUCTURAL FOR DETAILS

PROPOSED SIDEWALK SECTION @ DOOR OPENING RE: CP500 FOR DETAIL

PROPOSED MECHANICAL YARD RE: MEP FOR LAYOUT & DETAILS

PROPOSED BUILDING F.F.E. = 1172.75'

F.F.E. = 1172.75'

PROPOSED SIDEWALK RE: CP100 FOR PLAN & CP500 FOR DETAILS

PROPOSED PRE-ENGINEERED METAL BUILDING. RE: ARCH. FOR DETAILS

BUILDING CONTROL POINT

0 20' 40' 80'

SCALE IN FEET

## DEMOLITION LEGEND:

- A PROPOSED CONCRETE RAMPS. RE: CG300 FOR PLAN & CG501 FOR DETAILS.
- B ROOF DRAIN CONNECTIONS RE: ARCH (TYP.)
- C PROPOSED 3" WATER LINE RE: CU100 FOR PLAN & CU500 FOR DETAILS.
- D PROPOSED 6" FIRE LINE RE: CU100 FOR PLAN & CU500 FOR DETAILS.
- E PROPOSED STORM LINE RE: CU101-CU102 FOR PLAN & CU501-CU503 FOR DETAILS.
- F PROPOSED 4" SEWER LINE RE: CU100 FOR PLAN & CU504 FOR DETAILS.
- G PROPOSED 2" GAS LINE RE: CU100 FOR PLAN.


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PROFESSIONAL SEAL:

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EXP. 06/30/2020


CLIENT:

THE CHEROKEE NATION — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

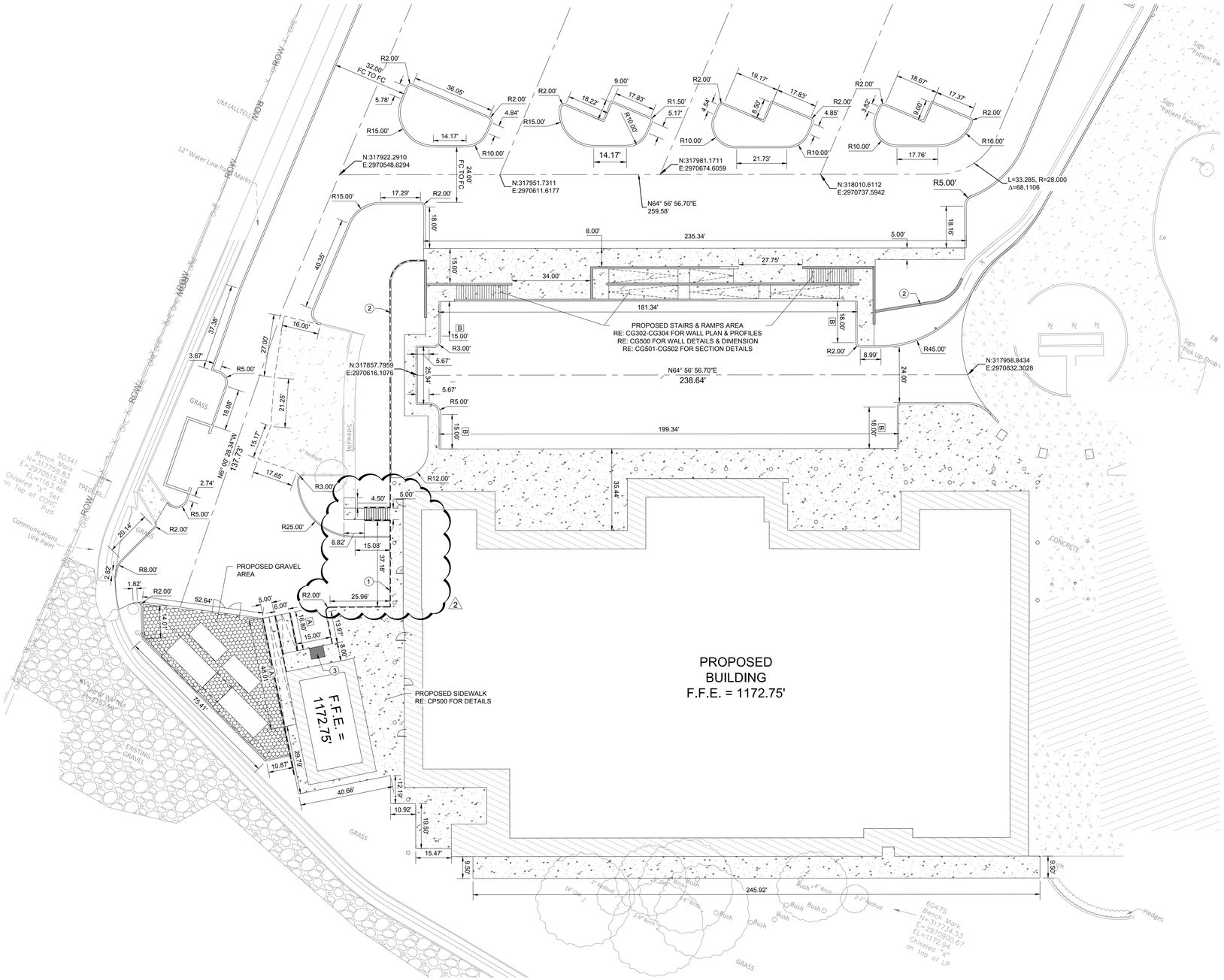
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: CI101

ENLARGED PROPOSED SITE PLAN




KEY NOTE:

1. PROPOSED DOCK RETAINING WALL
   RE: CP101 & CG500 FOR PLANS
   RE: STRUCTURAL FOR DETAIL.
2. PROPOSED RETAINING WALL "A-C"
   RE: CG300 FOR PLAN & CG301-CG302
   PROFILE RE: CG503 FOR DETAILS.
3. PROPOSED DOCK LEVELER
   RE: ARCH. FOR PLAN & DETAILS.

A. PROPOSED LOADING RAMP
   RE: CG500 FOR PLAN CG501 FOR DETAIL.

B. PROPOSED TRANSITION CURB
   6" HIGH TO 0" HIGH RE: CP500
   FOR DETAIL.

NOTE:

1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.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580.931.9045
OK. CA. 3590
Exp. 06/30/2020

CLIENT:

THE CHEROKEE NATION
TRUST LAND
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

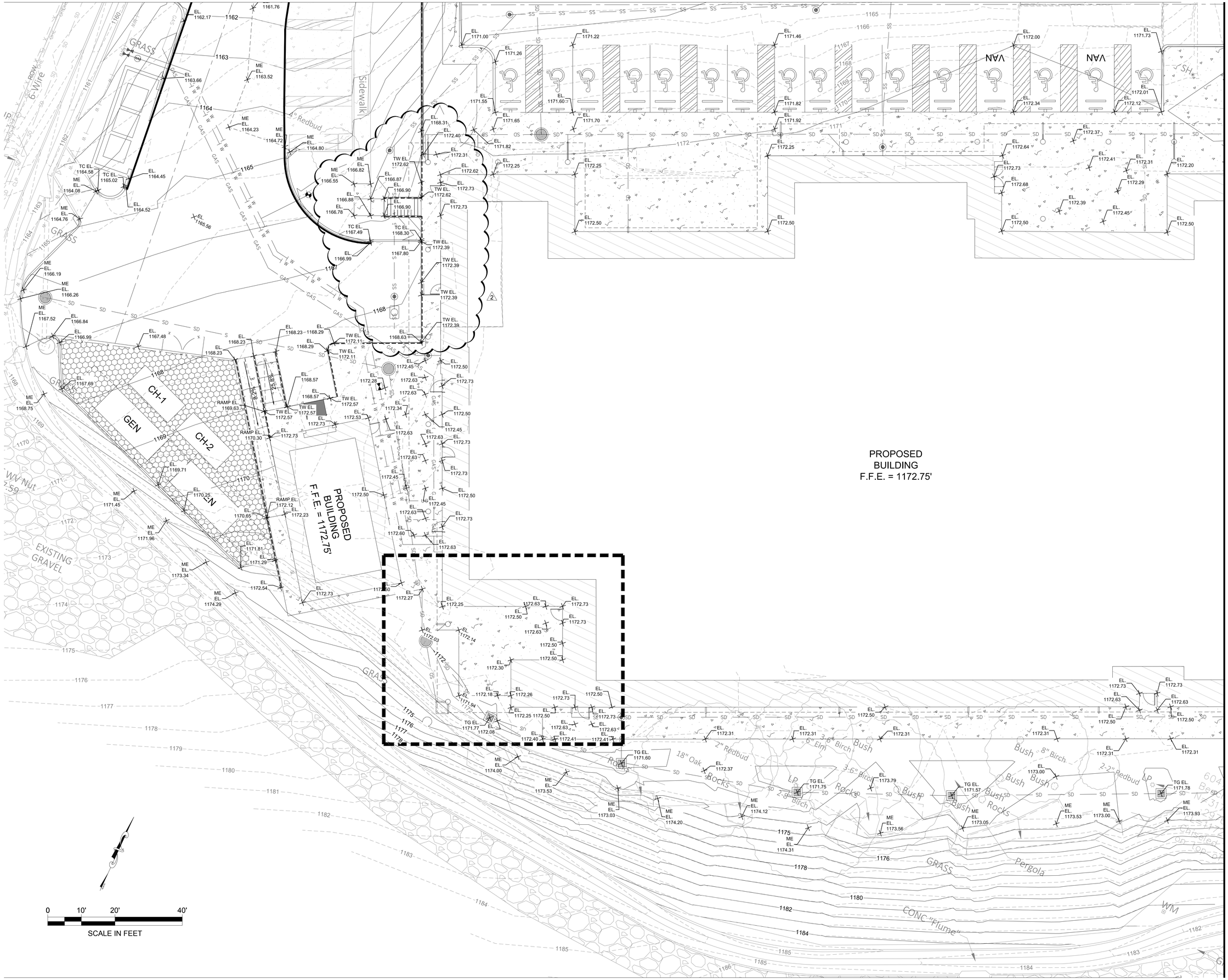
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: CP101

ENLARGED PAVING PLAN

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OK, CA. 3998
EXP. 06/30/2020

CLIENT:

SEAL OF THE CHEROKEE NATION CHARTER
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
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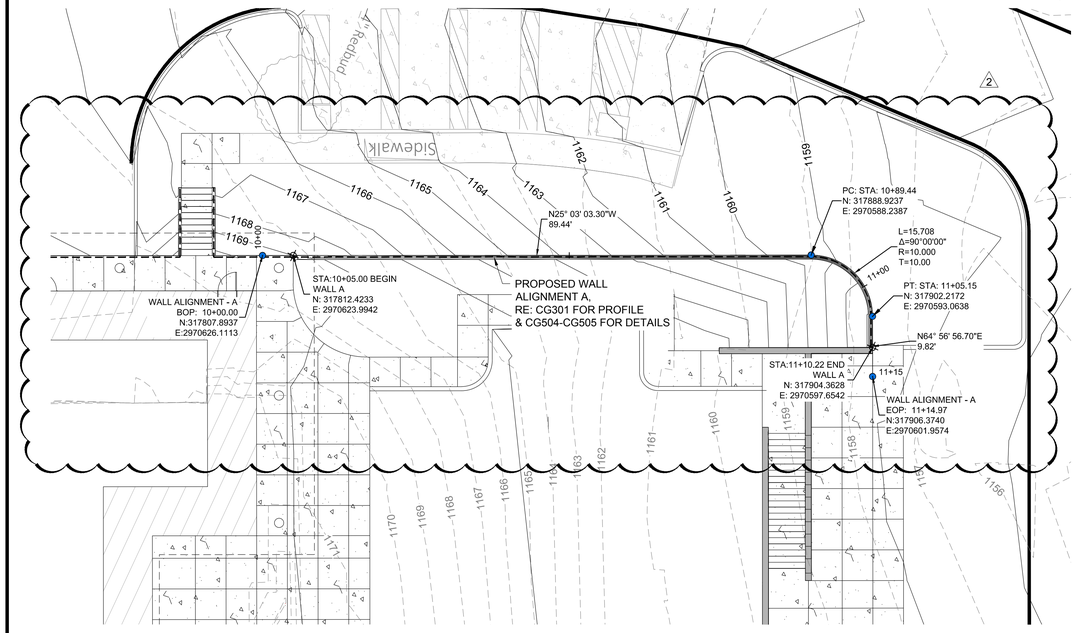
| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19

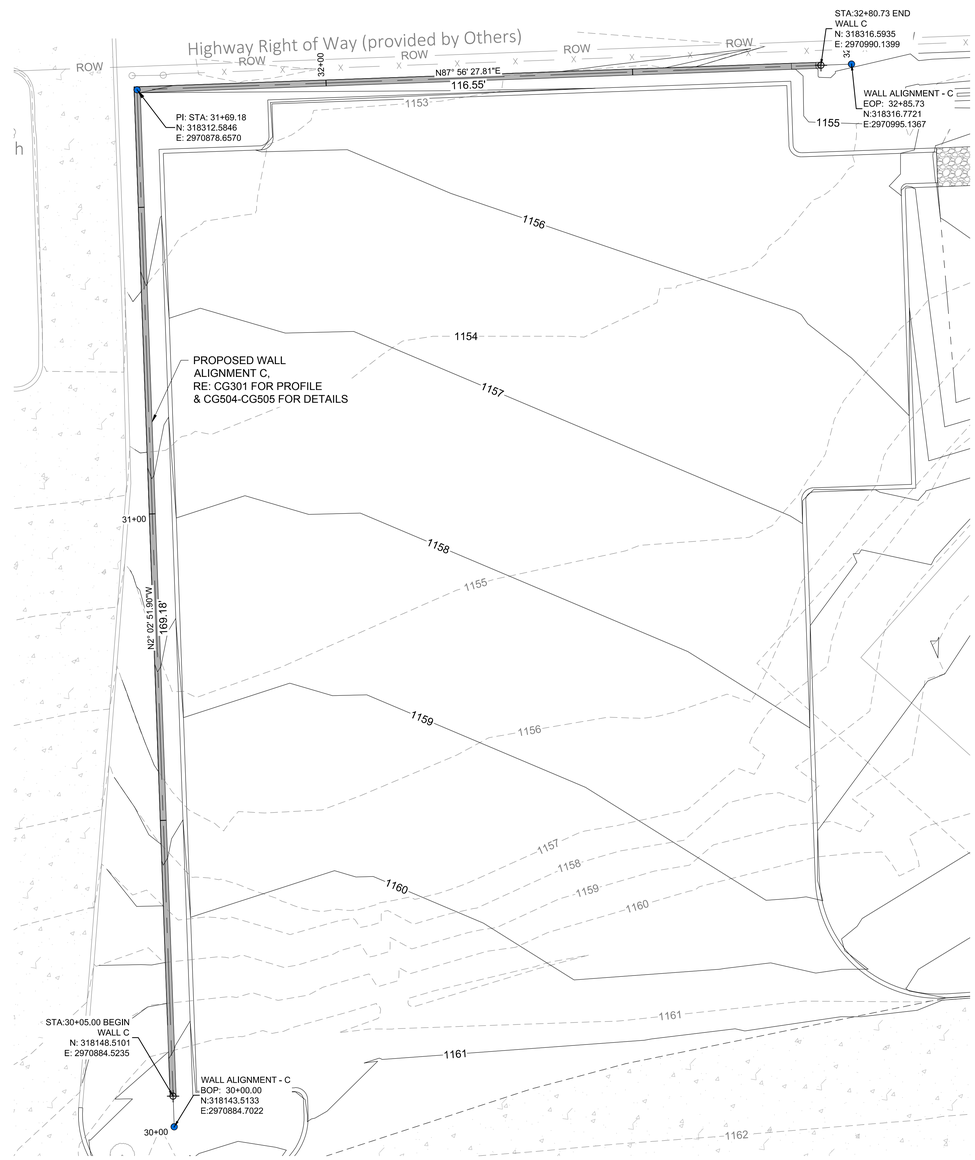
JOB NUMBER: 18-01.01

SHEET NUMBER: CG101

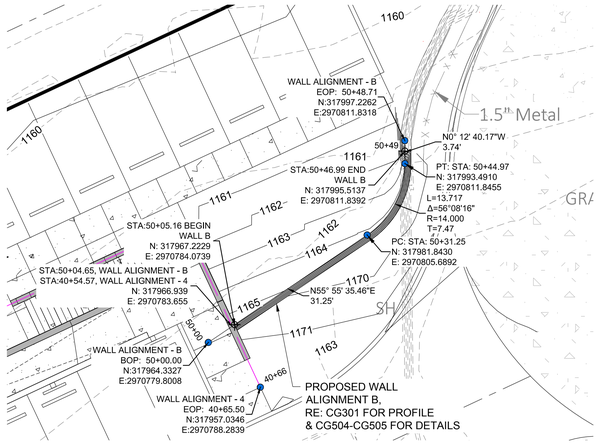
ENLARGED GRADING PLAN




WALL ALIGNMENT - A
ENLARGED VIEW
1" = 10' SCALE




WALL ALIGNMENT - C
ENLARGED VIEW
1" = 10' SCALE




WALL ALIGNMENT - B
ENLARGED VIEW
1" = 10' SCALE

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# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

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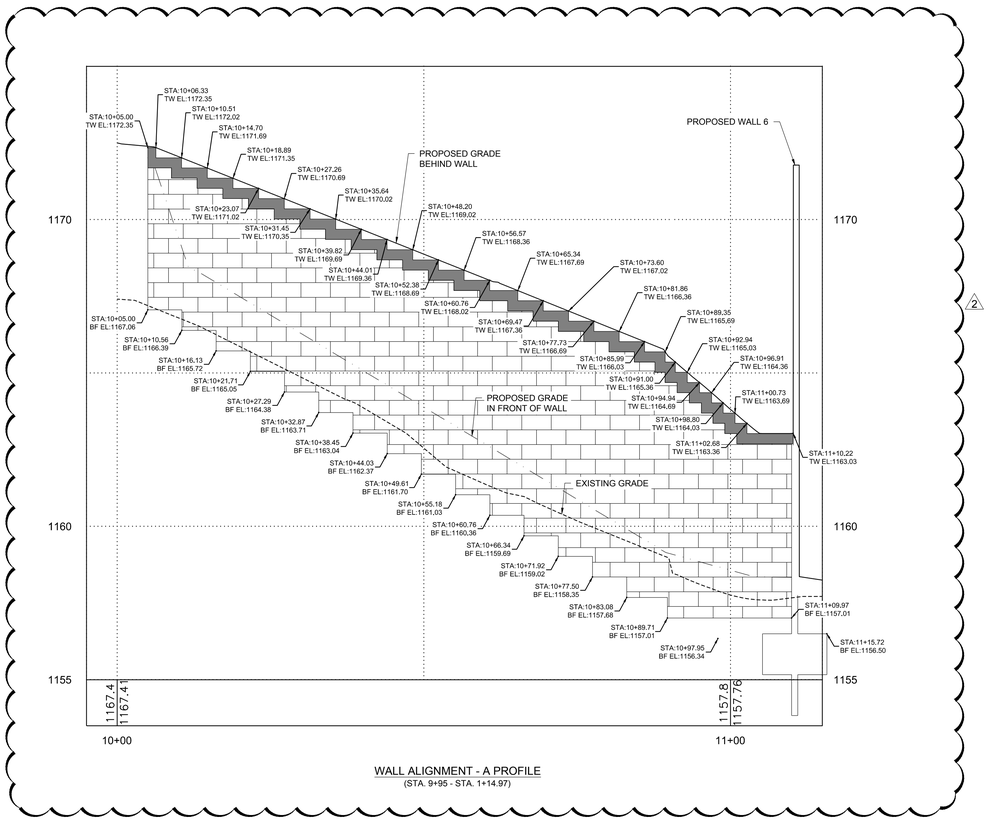
|---|---|---|
| # | DATE | DESCRIPTION |
| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19

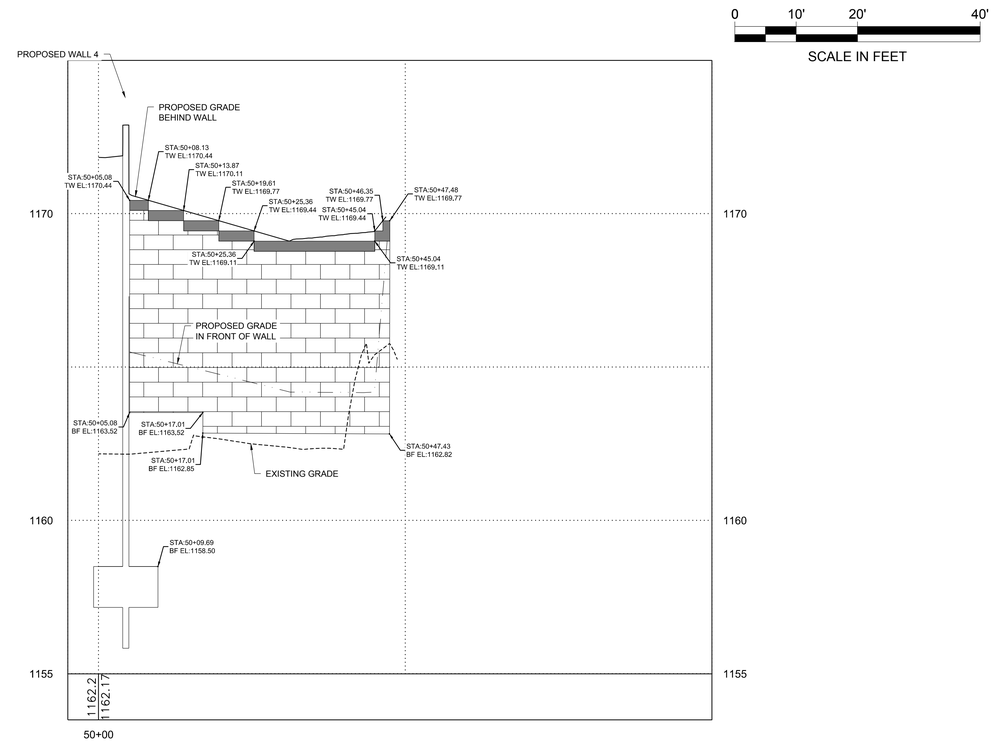
JOB NUMBER: 18-01.01

SHEET NUMBER: CG300

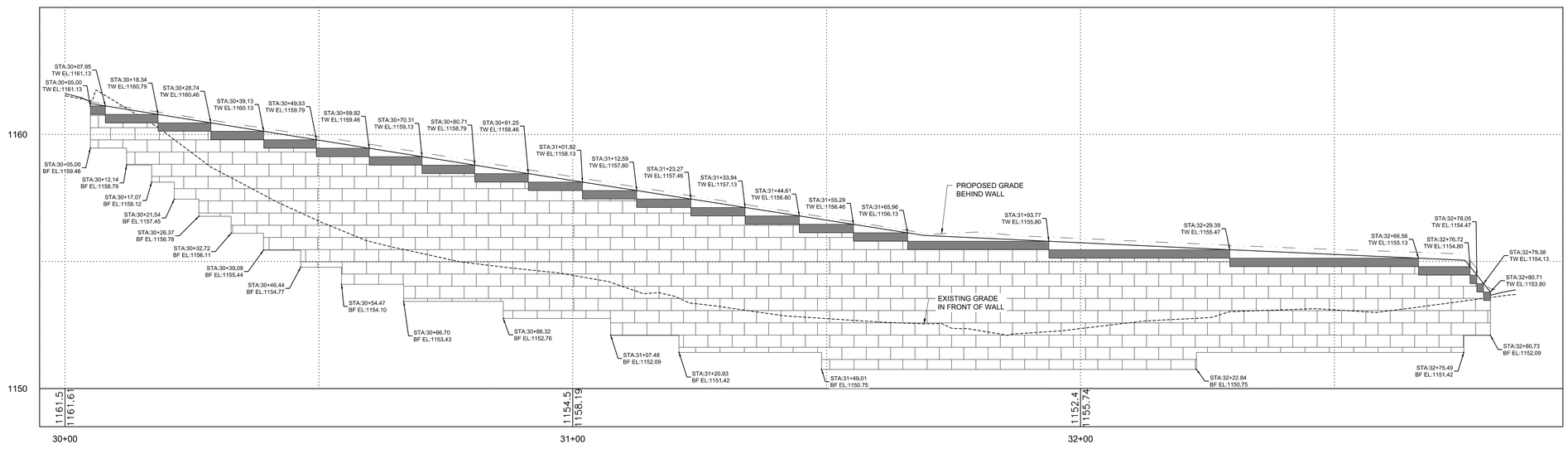
RETAINING WALL PLAN




WALL ALIGNMENT - A PROFILE
(STA. 9+95 - STA. 1+14.97)




WALL ALIGNMENT - B PROFILE
(STA. 49+95 - STA. 50+47.48)




WALL ALIGNMENT - C PROFILE
(STA. 29+95 - STA. 32+95)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CLIENT:

THE CHEROKEE NATION
SEPT. 6, 1839

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| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19
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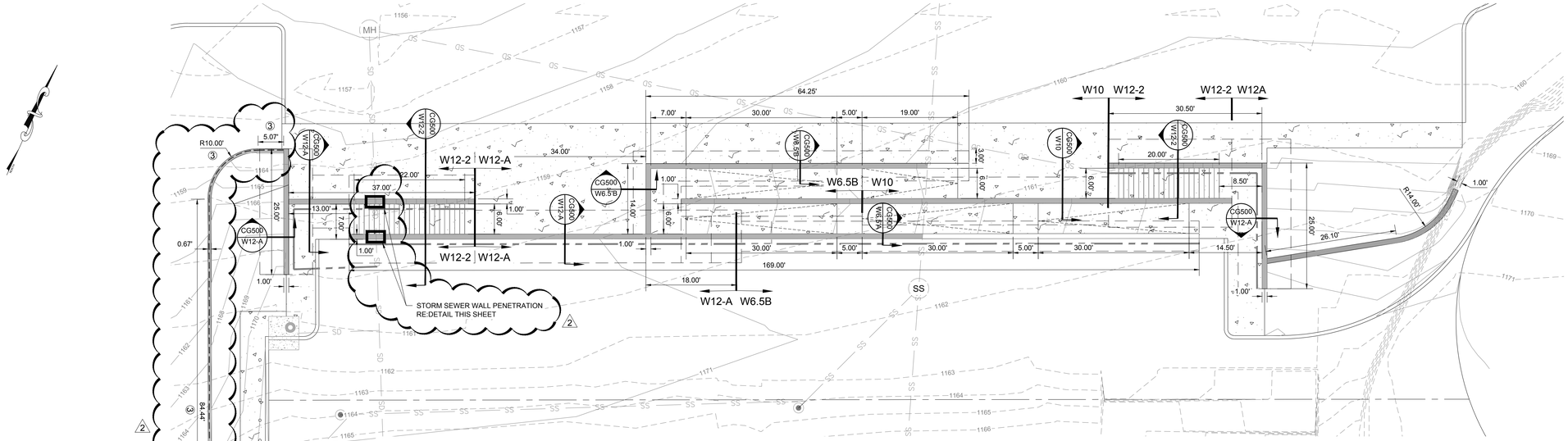
SHEET NUMBER:
CG301

RETAINING WALL PROFILES

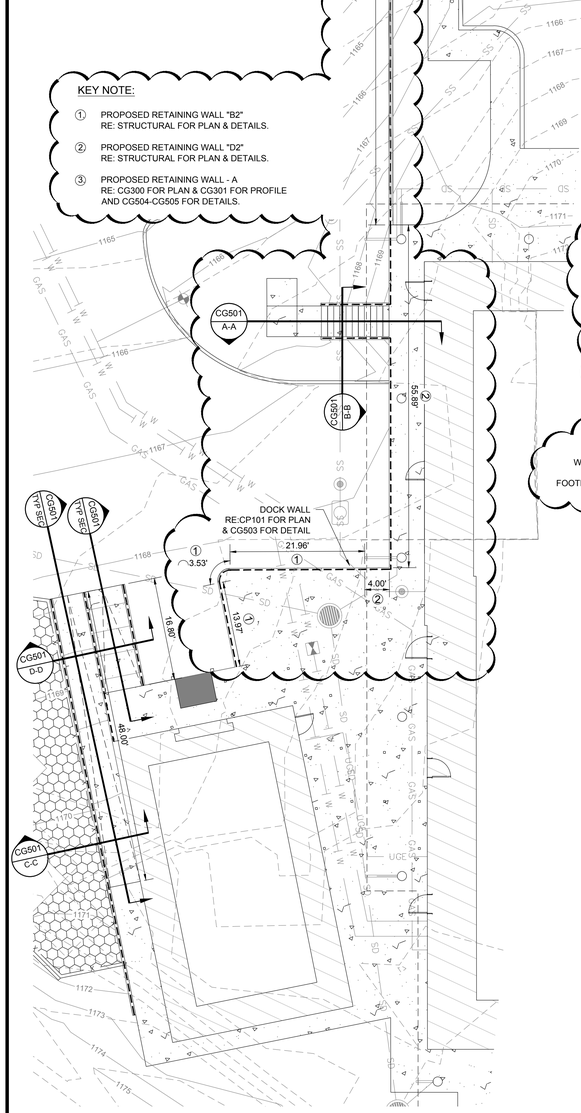


KEY NOTE:

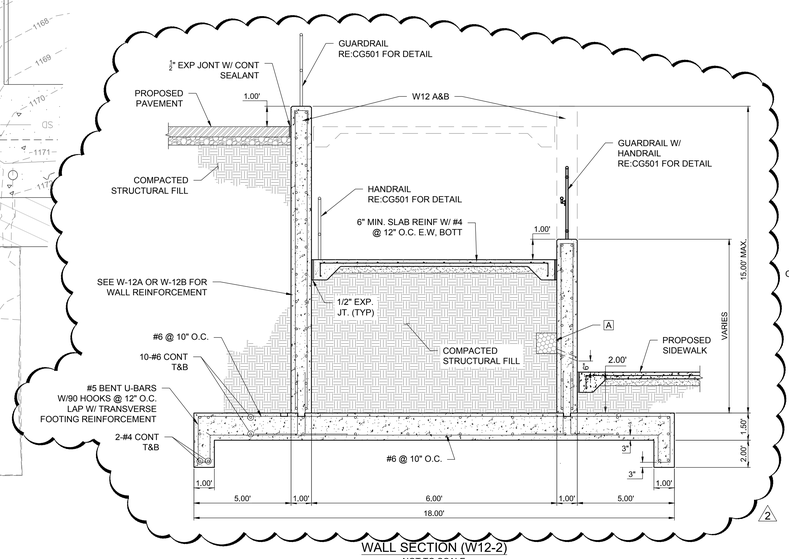
① PROPOSED RETAINING WALL "B2"
RE: STRUCTURAL FOR PLAN & DETAILS.

② PROPOSED RETAINING WALL "D2"
RE: STRUCTURAL FOR PLAN & DETAILS.

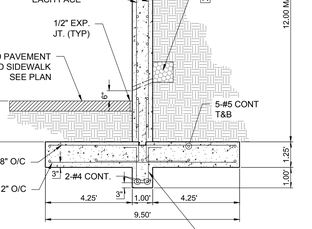
③ PROPOSED RETAINING WALL - A
RE: CG300 FOR PLAN & CG301 FOR PROFILE
AND CG504-CG505 FOR DETAILS.



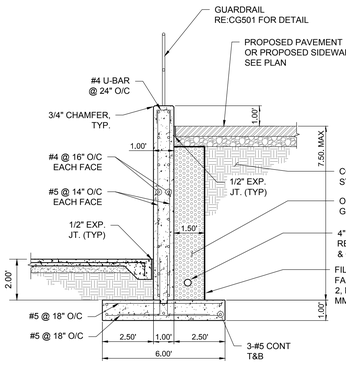

ENLARGED VIEW - A
1" = 10' SCALE



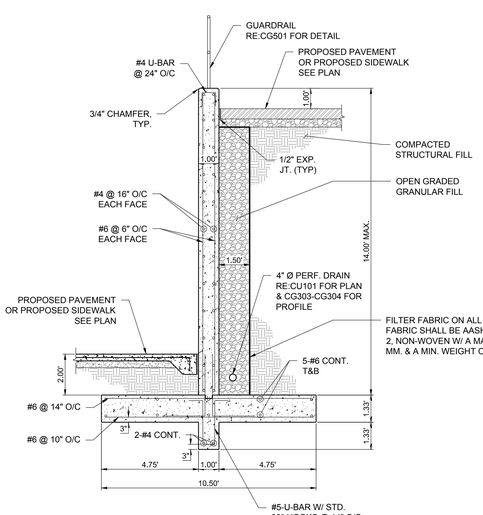

WALL SECTION (W12-2)
NOT TO SCALE



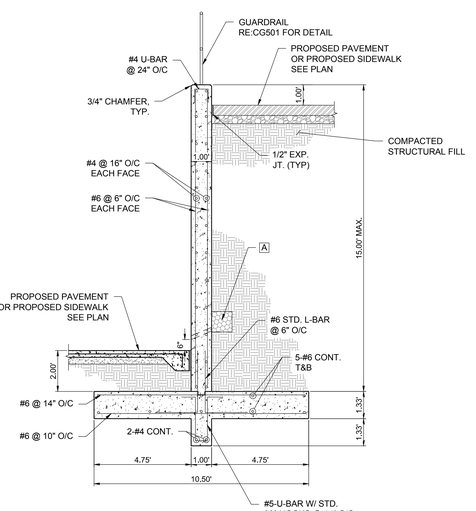

WALL SECTION (W10)
NOT TO SCALE



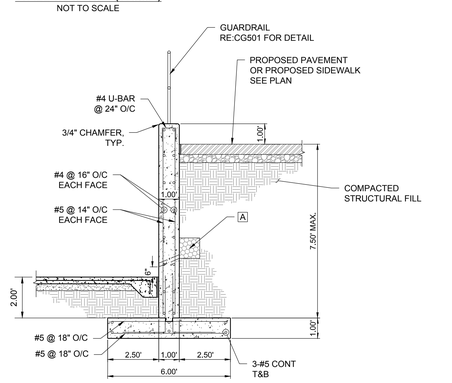

WALL SECTION (W6.5A)
NOT TO SCALE




WALL SECTION (W12-A)
NOT TO SCALE




WALL SECTION (W12-B)
NOT TO SCALE




WALL SECTION (W6.5B)
NOT TO SCALE

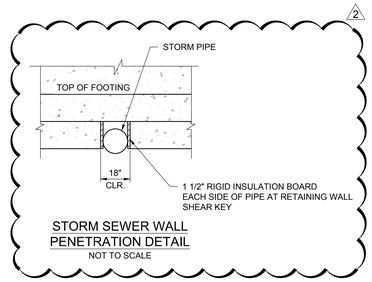
NOTE:

A. 1 ½" DIA PVC WEEP PIPE @ 6'-0" OC MAX. PROVIDE 12"x12"x12" GRAVEL & MIRAFI 140IN GEOTEXTILE FILTER FABRIC BETWEEN SOIL & GRAVEL @ EA WEEP HOLE.

B. CONTINUOUS REINFORCEMENT ON FOOTINGS TO EXTEND TO ADJACENT WALL.

NOTE:

REFER TO C004 WALL GENERAL NOTES FOR FOUNDATION NOTES & DESIGN CRITERIA.




STORM SEWER WALL PENETRATION DETAIL
NOT TO SCALE

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

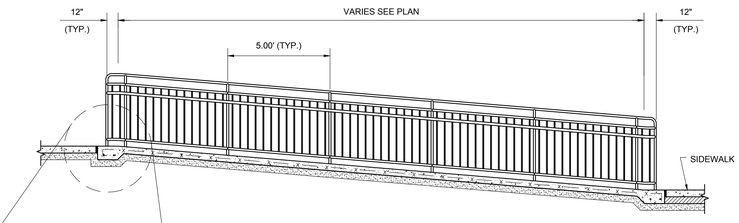
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 2 | 06/05/20 | ASI - 04 |

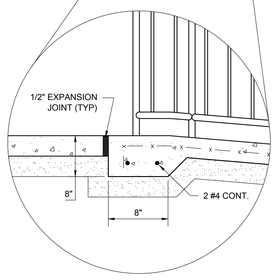
DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER: CG500

RAMP & STAIR WALL DETAILS



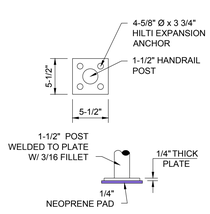

RAMP SECTION VIEW (TYP)
N.T.S.



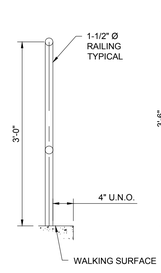

ENLARGED VIEW
N.T.S.

NOTE:

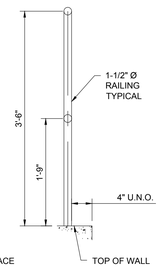
1. SEE SITE PLAN FOR MOW STRIP LOCATION, WIDTH, AND ELEVATION.
2. 12" WIDE, 3" THICK CONCRETE MOW STRIP @ SIDEWALK. PROVIDE 1/2" EXP. MATERIAL BETWEEN SIDEWALK AND MOW STRIP. PROVIDE CONTROL JOINTS @ 48" O.C. AND EXP. JOINTS @ 20'-0" O.C.



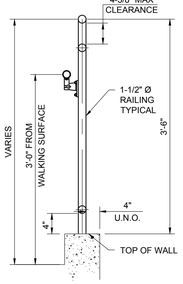

MOUNTING PLATE DETAIL
SCALE: NTS




HORI. HANDRAIL SPACING
SCALE: NTS



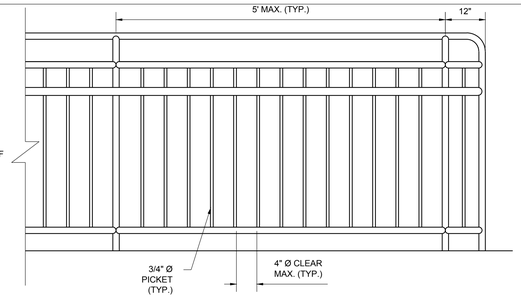

HORI. GUARDRAIL SPACING
SCALE: NTS



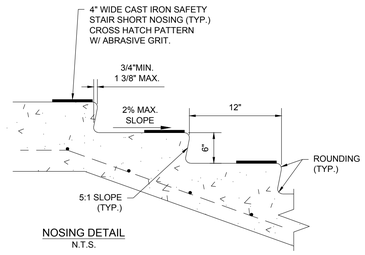

HORI. GUARDRAIL SPACING W/ HANDRAIL
SCALE: NTS

HANDRAIL GENERAL NOTES:
PAINTED STEEL

1. ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED ADA REQUIREMENTS.
2. GRIND WELD JOINTS SMOOTH
3. ALL RAIL, POSTS, AND COMPONENTS ARE TO BE STEEL-SCH. 40.
4. PRIME W/ RED OXIDE CORROSION INHIBITING PRIMER.
5. ALL RAILING SURFACES IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL RECEIVE ONE COAT OF ZINC CHROMATE.
6. USE 4-BOLT MOUNTING PLATE
7. ALL RAILS AND POSTS TO BE 1-1/2" SCH. 40 PIPE.
8. FINISH TO BE PAINT RE:ARCH.
9. MAX POST SPACING IS 5'-0" MAX. O.G.
10. ALL BENDS TO BE FIELD CUT.
11. CONTRACTOR SHALL FOLLOW ADA HANDRAIL AND GUARDRAIL SPECIFICATIONS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL.
12. CROSS SLOPE 2% MAX.




GUARDRAIL DETAIL
N.T.S.

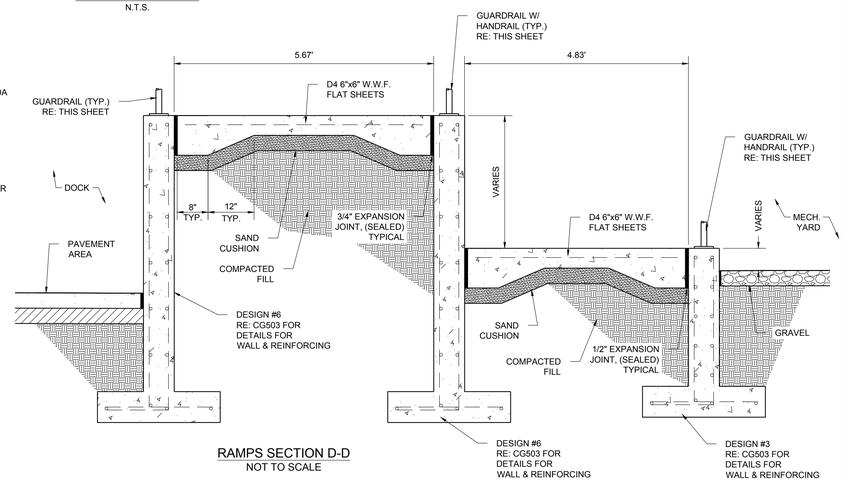



NOSING DETAIL
N.T.S.

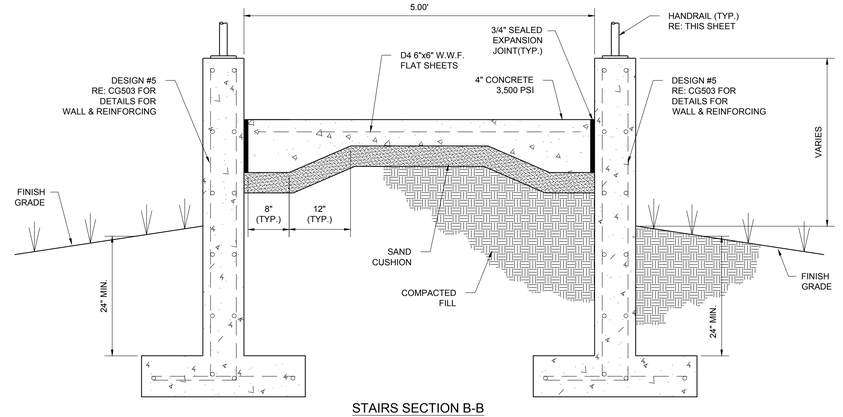
ALL RISERS SHALL BE OF EQUAL HEIGHT AND ALL TREADS SHALL BE OF EQUAL DEPTH ON ANY SET OF STAIRS.

HANDRAIL GENERAL NOTES:
PAINTED STEEL

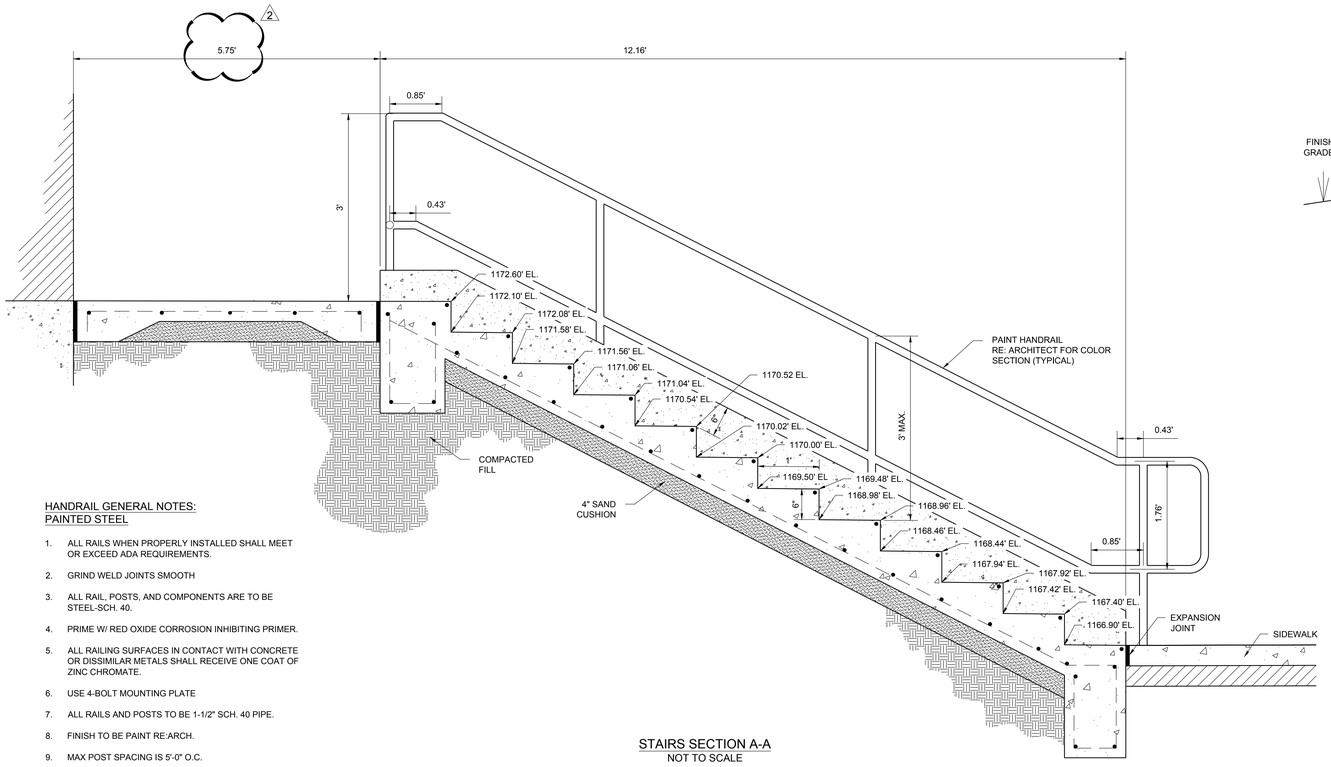
1. ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED ADA REQUIREMENTS.
2. GRIND WELD JOINTS SMOOTH
3. ALL RAIL, POSTS, AND COMPONENTS ARE TO BE STEEL-SCH. 40.
4. PRIME W/ RED OXIDE CORROSION INHIBITING PRIMER.
5. ALL RAILING SURFACES IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL RECEIVE ONE COAT OF ZINC CHROMATE.
6. USE 4-BOLT MOUNTING PLATE
7. ALL RAILS AND POSTS TO BE 1-1/2" SCH. 40 PIPE.
8. FINISH TO BE PAINT RE:ARCH.
9. MAX POST SPACING IS 5'-0" O.C.
10. ALL BENDS TO BE FIELD CUT.
11. CONTRACTOR SHALL FOLLOW ADA HANDRAIL AND GUARDRAIL SPECIFICATIONS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL.




RAMPS SECTION D-D
NOT TO SCALE



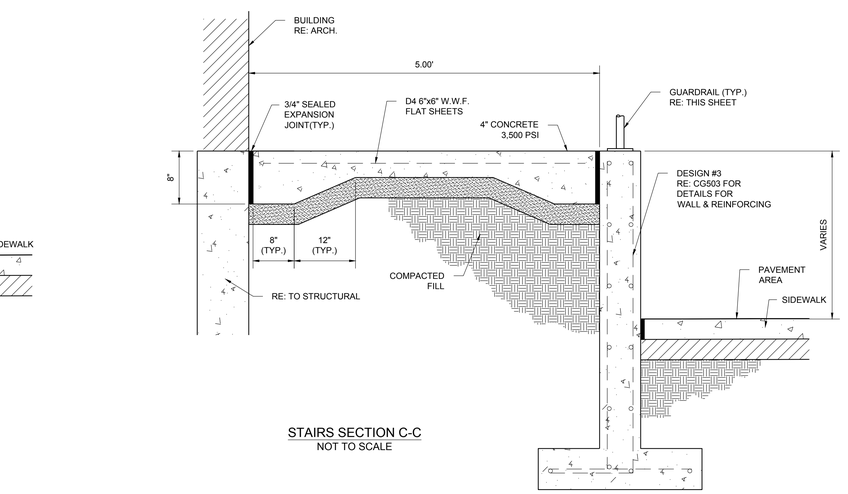

STAIRS SECTION B-B
NOT TO SCALE




STAIRS SECTION A-A
NOT TO SCALE

HANDRAIL GENERAL NOTES:
PAINTED STEEL

1. ALL RAILS WHEN PROPERLY INSTALLED SHALL MEET OR EXCEED ADA REQUIREMENTS.
2. GRIND WELD JOINTS SMOOTH
3. ALL RAIL, POSTS, AND COMPONENTS ARE TO BE STEEL-SCH. 40.
4. PRIME W/ RED OXIDE CORROSION INHIBITING PRIMER.
5. ALL RAILING SURFACES IN CONTACT WITH CONCRETE OR DISSIMILAR METALS SHALL RECEIVE ONE COAT OF ZINC CHROMATE.
6. USE 4-BOLT MOUNTING PLATE
7. ALL RAILS AND POSTS TO BE 1-1/2" SCH. 40 PIPE.
8. FINISH TO BE PAINT RE:ARCH.
9. MAX POST SPACING IS 5'-0" O.C.
10. ALL BENDS TO BE FIELD CUT.
11. CONTRACTOR SHALL FOLLOW ADA HANDRAIL AND GUARDRAIL SPECIFICATIONS. SHOW DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR APPROVAL.
12. CROSS SLOPE 2% MAX.




STAIRS SECTION C-C
NOT TO SCALE

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
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| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: CG501

STAIR DETAILS

MATCH LINE
STA. 3+25.07

0 20' 40' 80'
SCALE IN FEET

KEY NOTE:

① INSTALL 3-WAY FIRE HYDRANT ASSEMBLY. ENSURE THERE IS A FUNCTIONAL FIRE HYDRANT ASSEMBLY DURING CONSTRUCTION, NEW FIRE HYDRANT ASSEMBLY NEEDS TO BE INSTALLED PRIOR TO REMOVING EXISTING FIRE HYDRANT UTILIZE TEMPORARY HYDRANT IF NEEDED OR PHASING DOES NOT ALLOW INSTALLATION OF PERMANENT FIRE HYDRANT ASSEMBLY. RE: CU500 FOR DETAIL

② INSTALL POST INDICATOR VALVE RE: CU500 FOR DETAIL

FIRE LINE
STA. 20+00.00 CONNECT TO 6" ∅ WATER LINE INSTALL 6" ∅ TAPPING SADDLE, & 6" GATE VALVE, BOX & COVER
S-(13)
N:317803.6564
E:2970530.4820

DOMESTIC WATER LINE
STA. 10+00.00 CONNECT TO 6" ∅ WATER LINE. INSTALL 6"x3" TAPPING SADDLE W/ 3" GATE VALVE BOX & COVER
S-(6)
N:317802.1578
E:2970530.6384

DOMESTIC WATER LINE
STA. 10+04.96 INSTALL 3" WATER METER W/ BOX
RE:CU500 FOR DETAILS

21' of 6" Ø WATER LINE PIPE

FIRE LINE
STA. 20+20.89
INSTALL 6" ∅ 45° BEND
S-(14)
N:317805.8245
E:2970551.2592

15' of 3" Ø WATER LINE PIPE

DOMESTIC WATER LINE
STA. 10+20.26
INSTALL 3" ∅ 45° BEND
S-(8)
N:317804.2607
E:2970550.7917

FIRE LINE
STA. 20+69.54
INSTALL 6" ∅ TEE & FIRE HYDRANT ASSEMBLY
RE:CU500 FOR DETAIL
S-(15)
N:317775.0457
E:2970588.9338

49' of 6" Ø WATER LINE PIPE

59' of 3" Ø WATER LINE PIPE

186± LF OF 2" GAS LINE

FIRE LINE
STA. 20+80.52
INSTALL 6" ∅ 22.5° BEND
S-(16)
N:317768.1014
E:2970597.4339

11' of 6" Ø WATER LINE PIPE

DOMESTIC WATER LINE
STA. 10+79.68
INSTALL 3" ∅ 22.5° BEND
S-(9)
N:317766.6703
E:2970596.8040

29' of 3" Ø WATER LINE PIPE

31' of 6" ∅ WATER LINE PIPE

FIRE LINE
STA. 21+11.24
INSTALL 6" ∅ 45° BEND
S-(17)
N:317763.6828
E:2970627.8426

SEWER
STA. 0+72.57 4" ∅ 1 WAY
CLEANOUT W/ WYE S-(10)
TOP OF CAP EL: 1167.16
P-7
FL IN:1164.35
P-8
FL OUT:1164.35

45' of 4" ∅ PIPE @ 1.01%
P-7

SEWER
STA. 0+27.65 4" ∅ 2 WAY CLEANOUT S-(9)
TOP OF CAP EL: 1167.86
P-6
FL IN:1164.81
P-7
FL OUT:1164.80

STA. 0+23.00 PROPOSED GREASE TRAP
RE: MEP FOR DETAILS
S-(8)
P-5 (1) (1)
FL IN:1164.85
P-6
FL OUT:1164.85

9' of 4" ∅ PIPE @ 11.00%
P-5 (1)

4' of 4" ∅ PIPE @ 22.30%
P-4

BEGIN SEWER LINE ALIGNMENT
CONNECT TO BUILDING STUBOUT RE: MEP FOR CONNECTION

SEWER
STA. 0+03.70 4" ∅ 2 WAY CLEANOUT S-(7)
TOP OF CAP EL: 1172.44
P-4
FL IN:1166.61
P-5
FL OUT:1166.61

4' of 4" ∅ PIPE @ 19.59%
P-5

DOMESTIC WATER LINE
STA. 11+08.95
INSTALL 3" ∅ 45° BEND
S-(10)
N:317762.4613
E:2970625.7704

SEWER
STA. 0+16.14 4" Ø 45° BEND S-(43)
P-5 (1)
FL IN:1164.92
P-5 (1) (1)
FL OUT:1164.92

SEWER
STA. 0+07.40 4" Ø 45° BEND S-(22)
P-5
FL IN:1165.88
P-5 (1)
FL OUT:1165.88

71' of 3" Ø WATER LINE PIPE

56' of 6" Ø WATER LINE PIPE

UNDER GROUND ELECTRIC LINE

10' of 6" Ø WATER LINE PIPE

CONNECT TO BUILDING STUB OUT RE: MEP FOR LOCATIONS & ELEVATIONS

FIRE LINE
STA. 21+80.30
INSTALL 6" ∅ 45° W/ 22.50° W/ 11.25° BEND
S-(19)
N:317708.0522
E:2970668.7593

12' of 3" Ø WATER LINE PIPE

DOMESTIC WATER LINE
STA. 11+80.30
INSTALL 3" ∅ 45° W/ 22.50° W/ 11.25° BEND
S-(11)
N:317704.9848
E:2970668.0448

SEWER
STA. 1+25.81 4" ∅ 2 WAY CLEANOUT S-(11)
TOP OF CAP EL: 1170.80
P-8
FL IN:1163.82
P-9
FL OUT:1163.82

91' of 4" ∅ PIPE @ 1.00%
P-9

53' of 4" ∅ PIPE @ 1.00%
P-8

SEWER
STA. 2+16.35 4" ∅ 1 WAY CLEANOUT W/ WYE S-(21)
TOP OF CAP EL: 1171.30
RE:CU504 FOR DETAIL (TYP.)
P-9
FL IN:1162.92
P-9 (1)
FL OUT:1162.92

32' of 4" ∅ PIPE @ 1.00%
P-9 (1)

SEWER
STA.:2+48.04 =
SEWER FRONT
STA.:0+67.14 INSTALL
4' ∅ INSIDE DROP MANHOLE
RE: CU503 FOR DETAIL
S-(16)
TOP OF RIM EL: 1171.36
N:317932.5455
E:2970723.8341
P-12
FL IN:1156.84
P-9 (1)
FL IN:1162.60
P-13
FL OUT:1156.84

25' of 8" ∅ PIPE @ 11.16%
P-13

65' of 8" ∅ PIPE @ 16.37%
P-12

SEWER FRONT
STA. 0+02.52 4" ∅ 2 WAY CLEANOUT S-(15)
TOP OF CAP EL: 1172.33
P-11
FL IN:1167.41
P-12
FL OUT:1167.41

CONNECT TO BUILDING STUBOUT RE: MEP FOR CONNECTION

PROPOSED BUILDING
F.F.E. = 1172.75'

F.F.E. = 1172.75

CH-1
CH-2
GEN
GEN

SEWER
STA. 3+80.00 CONNECT TO EXISTING 4' Ø MANHOLE. CONTRACTOR TO ADJUST EXISTING MANHOLE TOP OF RIM ELEVATION TO FINISHED GRADE
S-(18)
TOP OF RIM EL: 1156.25
RE: CU503 FOR MANHOLE HEIGHT ADJUSTMENT DETAIL.
P-14
FL IN:1151.94

107' of 8" ∅ PIPE @ 1.93%
P-14

MATCH LINE
STA. 3+25.07


James R. Childers Architect, Inc.
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479-783-2450
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PROFESSIONAL SEAL:
REGISTERED PROFESSIONAL ENGINEER
H. WAYNE BARKER
12-6-19
18553
OKLAHOMA

CONSULTANT LOGO:
Barker & Associates
3900 UNIVERSITY BLVD
Durant, OK 74701
580.931.5045
OK. CA. 3590
EXP. 06/30/2020

CLIENT:
THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 2 | 06/05/20 | ASI - 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
CU100

UTILITY PLAN

## KEYED NOTES:

1. STRUCTURAL MEMBERS SUPPORTING EXIT STAIRS THAT ARE EITHER LOCATED OUTSIDE OF THE RATED ENCLOSURE OR PENETRATING THROUGH THE RATED ENCLOSURE SHALL BE PROTECTED WITH MINIMUM 1-HOUR FIRE RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.
2. STRUCTURAL MEMBERS SUPPORTING 1-HOUR FIRE-RESISTANCE RATED FIRE BARRIERS SHALL BE PROTECTED WITH MINIMUM 1-HOUR FIRE RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.

## LIFE SAFETY PLAN LEGEND

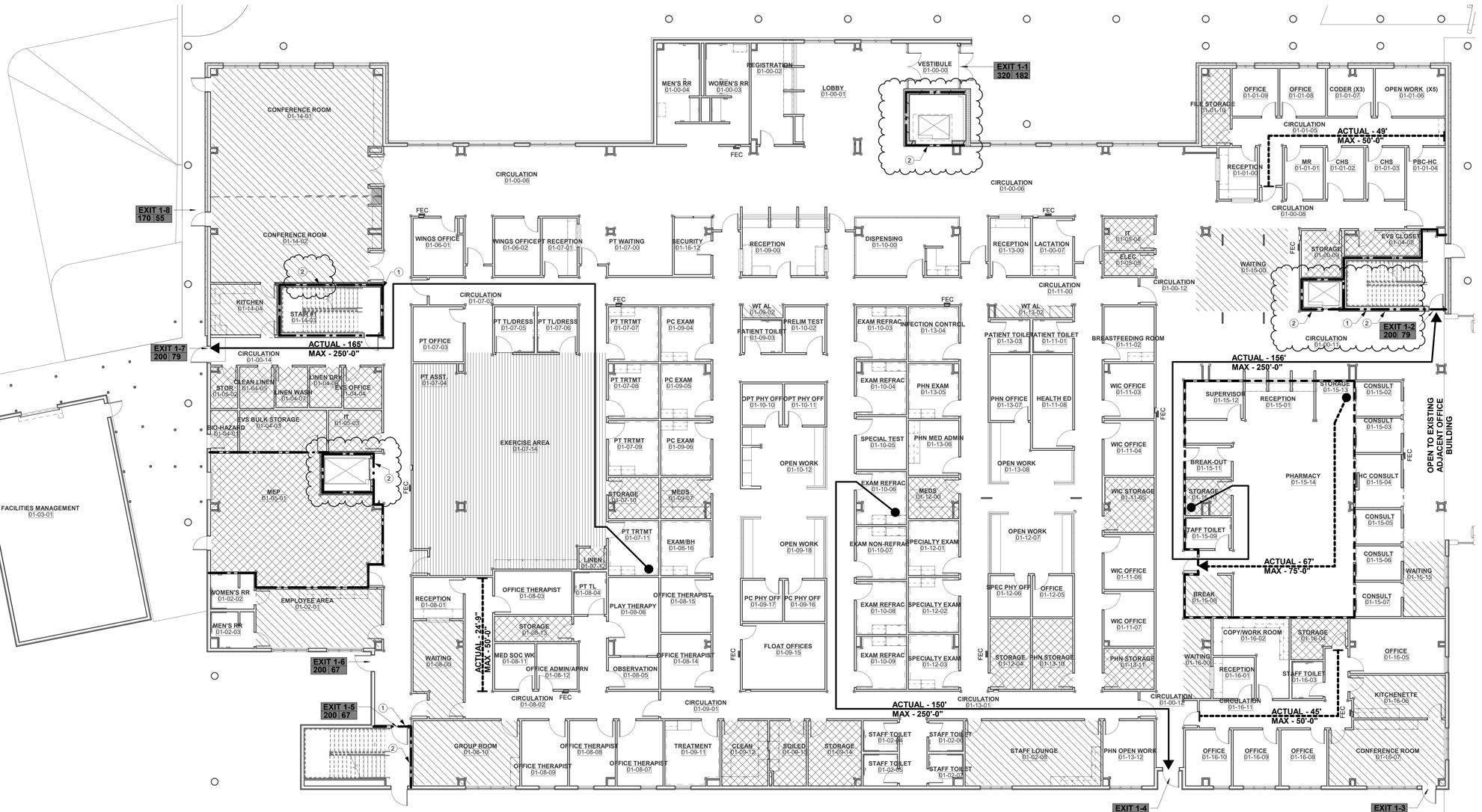
| EXIT NAME | |
|---|---|
| EXIT CAPACITY | OCCUPANTS USING EXIT |

- SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- ACTUAL - X'-X" / MAX. - X'-X" — DEAD-END CORRIDOR
- ACTUAL - X'-X" / MAX. - X'-X" — COMMON PATH OF TRAVEL
- ACTUAL - X'-X" / MAX. - X'-X" — EXIT ACCESS TRAVEL DISTANCE
- UNCONCENTRATED ASSEMBLY @ 1 OCCUPANT PER 15 SQ. FT.
- BUSINESS @ 1 OCCUPANT PER 100 SQ. FT.
- EXCERCISE @ 1 OCCUPANT PER 50 SQ. FT.
- STORAGE/SUPPORT @ 1 OCCUPANT PER 300 SQ. FT.

| FIRST FLOOR USE | AREA (SQ. FT.) | OCCUPANT LOAD FACTOR (PERSON/SQ.FT.) | OCCUPANT LOAD |
|---|---|---|---|
| ASSEMBLY FIRST FLOOR | 4,034 SQ. FT. | 1/15 | 269 |
| BUSINESS FIRST FLOOR | 30,830 SQ. FT. | 1/100 | 309 |
| EXCERCISE FIRST FLOOR | 1,957 SQ. FT. | 1/50 | 40 |
| STORAGE FIRST FLOOR | 3,645 SQ. FT. | 1/300 | 13 |
| **TOTAL** | 40,466 SQ. FT. | | 631 |

| FIRST FLOOR EXIT NAME | WIDTH (INCHES) | | LIMITING FACTOR | WIDTH FACTOR INCH/PERSON | | OCCUPANT CAPACITY |
|---|---|---|---|---|---|---|
| | DOOR | STAIR | | DOOR | STAIR | |
| EXIT 1-1 | 68(-4) | N/A | DOOR | 0.2 | N/A | 320 |
| EXIT 1-2 | 42(-2) | N/A | DOOR | 0.2 | N/A | 200 |
| EXIT 1-3 | 36(-2) | N/A | DOOR | 0.2 | N/A | 170 |
| EXIT 1-4 | 42(-2) | N/A | DOOR | 0.2 | N/A | 200 |
| EXIT 1-5 | 42(-2) | N/A | DOOR | 0.2 | N/A | 200 |
| EXIT 1-6 | 42(-2) | N/A | DOOR | 0.2 | N/A | 200 |
| EXIT 1-7 | 42(-2) | N/A | DOOR | 0.2 | N/A | 200 |
| EXIT 1-8 | 36(-2) | N/A | DOOR | 0.2 | N/A | 170 |
| | | | | | **TOTAL** | 1660* |

* EGRESS CALCULATIONS DO NOT INCLUDE AVAILABLE CAPACITIES FROM EXISTING BUILDING.




TRUE N / PLAN N

1 01 OVERALL FIRST FLOOR LIFE SAFETY PLAN
1" = 10'-0"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PROFESSIONAL SEAL:

CONSULTANT LOGO:


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808 Travis St., Suite 350
Houston, TX 77002
(713) 232-4944
wsp.com
TBPE Registration Number: F-14967


PROJECT NO. 18068R
ISSUED FOR CONSTRUCTION COMPLETE

CLIENT:

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: AL1.01

LIFE SAFETY PLAN LEVEL 01

## KEYED NOTES:

1. STRUCTURAL MEMBERS SUPPORTING EXIT STAIRS THAT ARE EITHER LOCATED OUTSIDE OF THE RATED ENCLOSURE OR PENETRATING THROUGH THE RATED ENCLOSURE SHALL BE PROTECTED WITH MINIMUM 1-HOUR FIRE RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.
2. STRUCTURAL MEMBERS SUPPORTING 1-HOUR FIRE-RESISTANCE RATED FIRE BARRIERS SHALL BE PROTECTED WITH MINIMUM 1-HOUR FIRE RESISTANCE RATING. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MEMBERS REQUIRING FIREPROOFING.

## LIFE SAFETY PLAN LEGEND

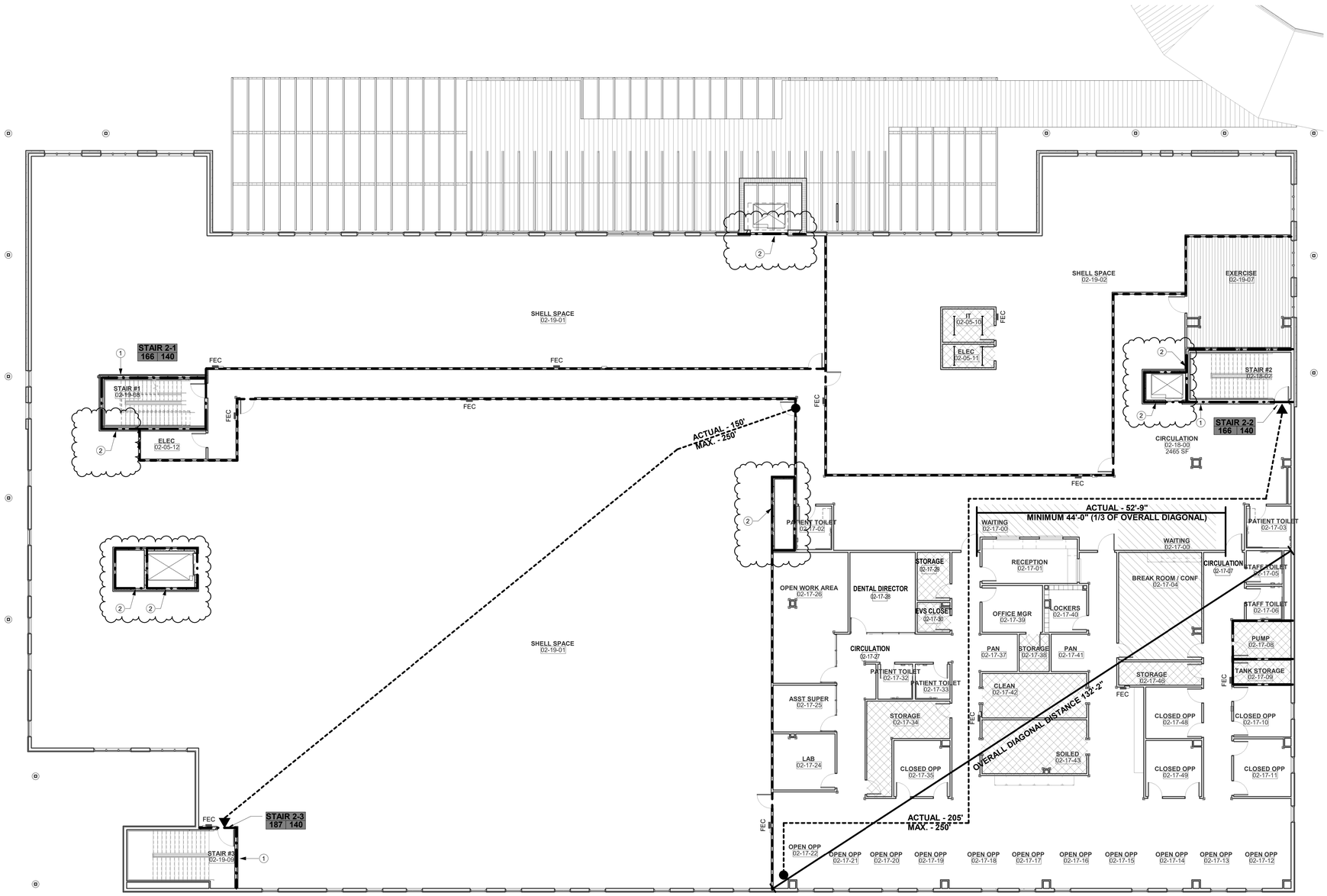
- SMOKE PARTITION
- 1 HOUR FIRE BARRIER
- ACTUAL - X'-X" / MAX. - X'-X" — DEAD-END CORRIDOR
- ACTUAL - X'-X" / MAX. - X'-X" — COMMON PATH OF TRAVEL
- ACTUAL - X'-X" / MAX. - X'-X" — EXIT ACCESS TRAVEL DISTANCE

| EXIT NAME | |
|---|---|
| EXIT CAPACITY | OCCUPANTS USING EXIT |

- UNCONCENTRATED ASSEMBLY @ 1 OCCUPANT PER 15 SQ. FT.
- BUSINESS @ 1 OCCUPANT PER 100 SQ. FT.
- EXCERCISE @ 1 OCCUPANT PER 50 SQ. FT.
- STORAGE/SUPPORT @ 1 OCCUPANT PER 300 SQ. FT.

| SECOND FLOOR USE | AREA (SQ. FT.) | OCCUPANT LOAD FACTOR (PERSON/SQ.FT.) | OCCUPANT LOAD |
|---|---|---|---|
| ASSEMBLY SECOND FLOOR | 754 SQ. FT. | 1/15 | 51 |
| BUSINESS SECOND FLOOR | 35,237 SQ. FT. | 1/100 | 353 |
| EXCERCISE SECOND FLOOR | 550 SQ. FT. | 1/50 | 11 |
| STORAGE SECOND FLOOR | 1,201 SQ. FT. | 1/300 | 5 |
| **TOTAL** | 37,742 SQ. FT. | | 420 |

| SECOND FLOOR EXIT NAME | WIDTH (INCHES) | | LIMITING FACTOR | WIDTH FACTOR INCH/PERSON | | OCCUPANT CAPACITY |
|---|---|---|---|---|---|---|
| | DOOR | STAIR | | DOOR | STAIR | |
| STAIR 2-1 | 36(-2) | 50 | STAIR | 0.2 | 0.3 | 166 |
| STAIR 2-2 | 36(-2) | 50 | STAIR | 0.2 | 0.3 | 166 |
| STAIR 2-3 | 42(-2) | 56 | STAIR | 0.2 | 0.3 | 187 |
| | | | | | **TOTAL** | 519 |




TRUE N / PLAN N — 1 02 OVERALL SECOND FLOOR LIFE SAFETY PLAN
1" = 10'-0"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PROFESSIONAL SEAL:

CONSULTANT LOGO:


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808 Travis St., Suite 350
Houston, TX 77002
(713) 232-8900
wsp.com
TBPE Registration Number: F-14967


PROJECT NO. 18068R
ISSUED FOR CONSTRUCTION COMPLETE

CLIENT:

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

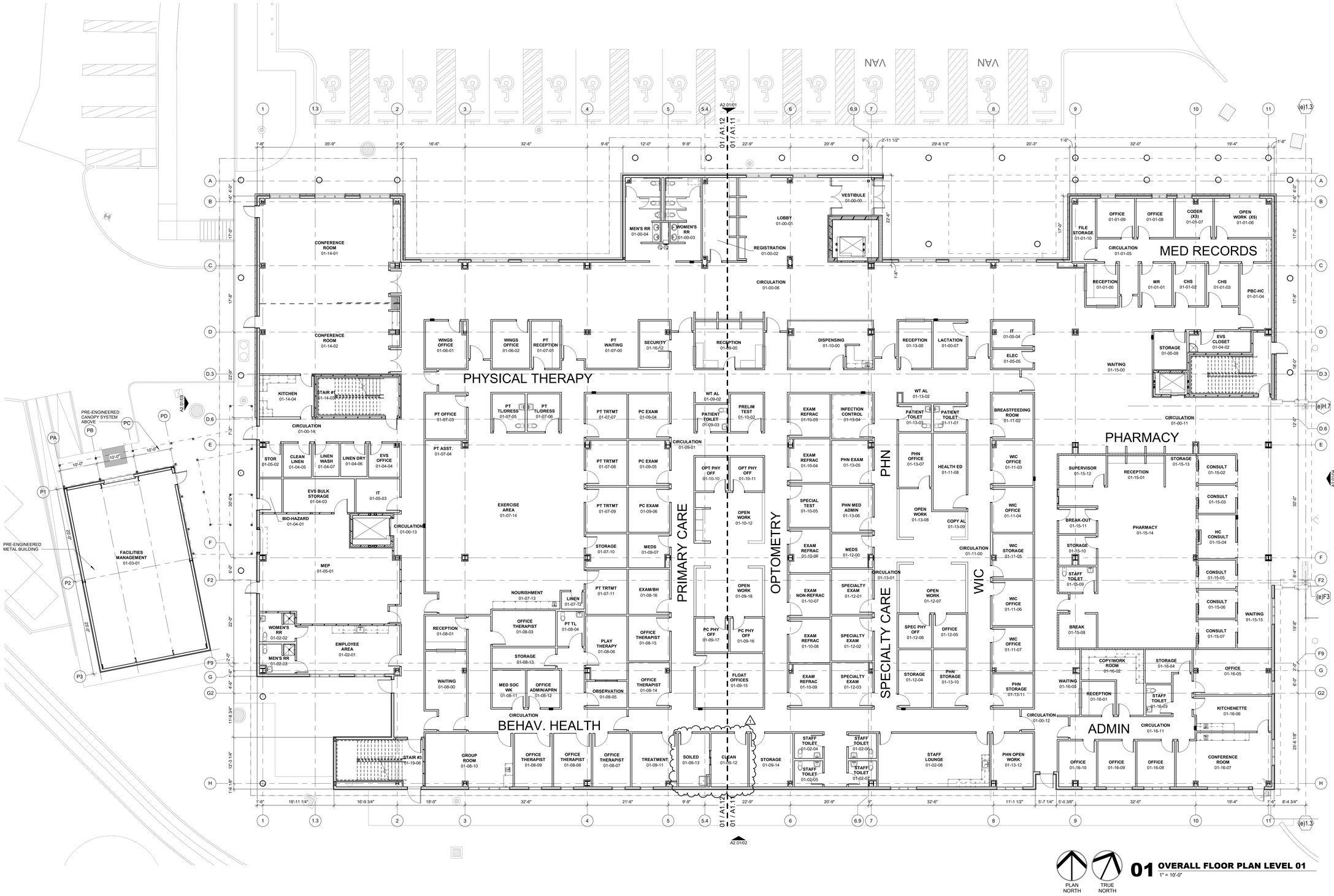
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: AL2.01

LIFE SAFETY PLAN LEVEL 02

## GENERAL NOTES - FLOOR PLAN

1. INTERIOR DIMENSIONS ARE TO THE FACE OF DRYWALL OR FINISH.
2. ALL EXTERIOR DIMENSIONS ARE TO THE FACE OF EXTERIOR SHEATHING, UNLESS OTHERWISE NOTED.
3. REFER TO SHEET A2 FOR SERIES FOR EXTERIOR ELEVATIONS.
4. REFER TO SHEET A6.01 - A6.02 FOR PARTITION TYPES AND FRAMING DETAILS.
5. REFER TO SHEET A6.10 FOR DOOR SCHEDULE.
6. REFER TO SHEET A6.20 SERIES FOR TOILET & ACESSORY INFORMATION.
7. REFER TO SHEET A8 SERIES FOR MILLWORK AND INTERIOR ELEVATIONS.




**01 OVERALL FLOOR PLAN LEVEL 01**
1" = 10'-0"

PLAN NORTH
TRUE NORTH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PROFESSIONAL SEAL:

06-05-20

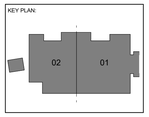
CONSULTANT LOGO:

CLIENT:

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

A1.01

OVERALL FLOOR PLAN LEVEL 01

## GENERAL NOTES - FLOOR PLAN

1. INTERIOR DIMENSIONS ARE TO THE FACE OF DRYWALL OR FINISH.
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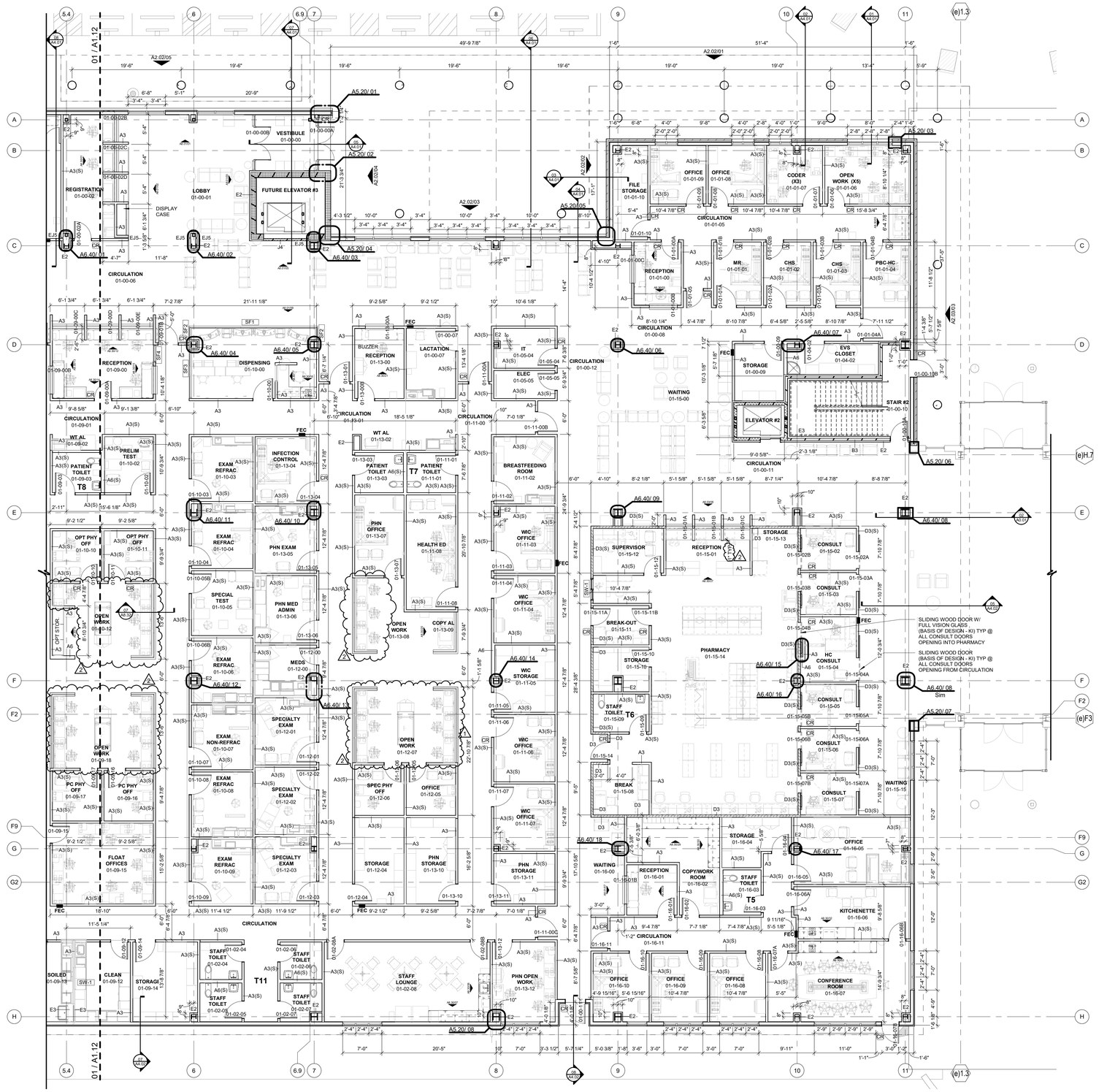


**01 FLOOR PLAN LEVEL 01 SECTOR 01**
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH


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Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com


PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEAL OF THE CHEROKEE NATION
DEPT. 5, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 2/18/2020 | BID PACKAGE 02 - ADD 04 |
| 2 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

A1.11

FLOOR PLAN LEVEL 01 SECTOR 01

## GENERAL NOTES - FLOOR PLAN

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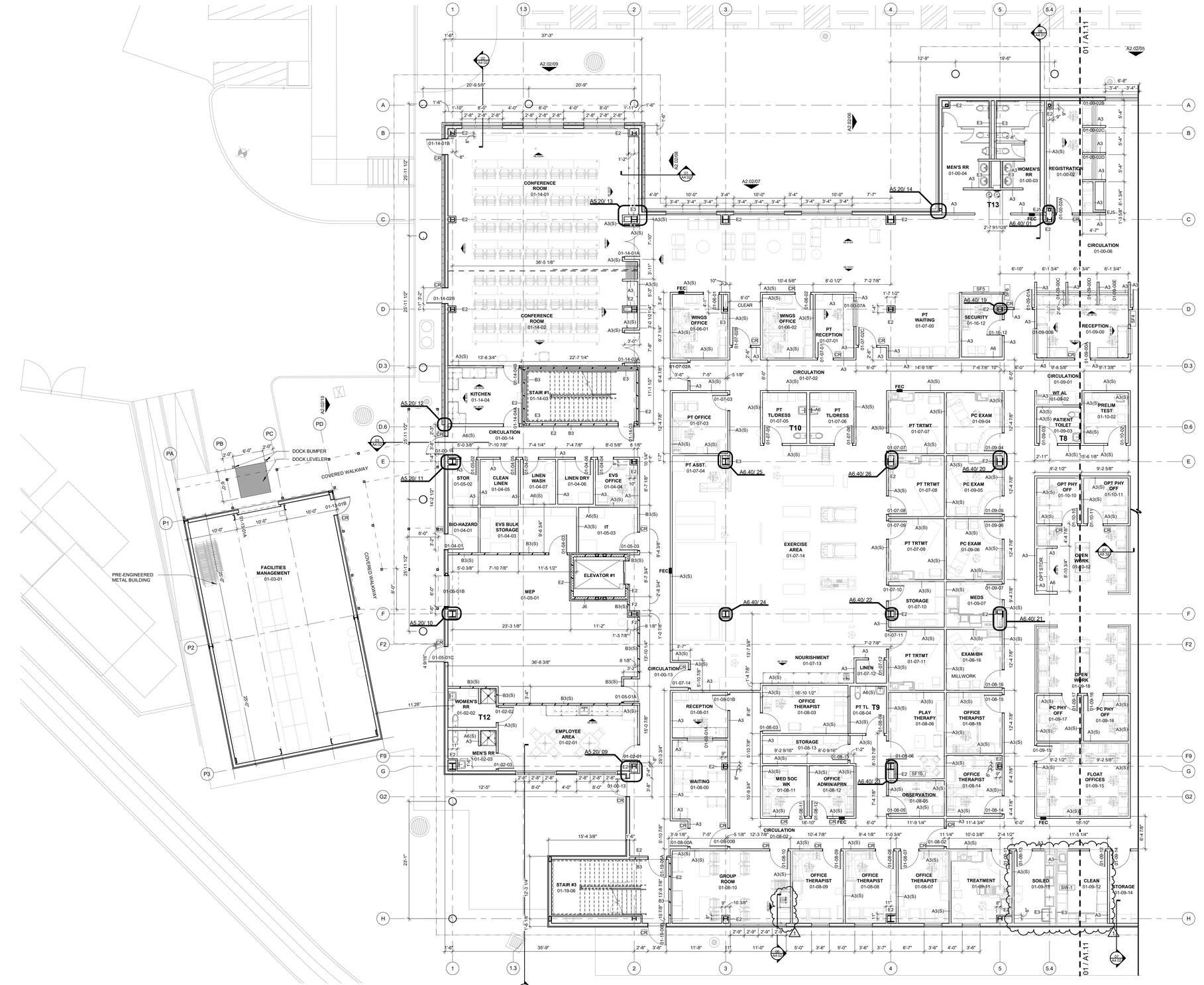


**01 FLOOR PLAN LEVEL 01 SECTOR 02**
1/8" = 1'-0"

PLAN NORTH / TRUE NORTH


James R. Childers Architect, Inc.
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www.childersarchitect.com


PROFESSIONAL SEAL:

STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

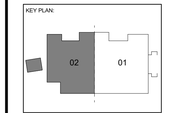
CLIENT:

THE CHEROKEE NATION — TRUST OF THE CHEROKEE NATION — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

A1.12

FLOOR PLAN LEVEL 01 SECTOR 02

## GENERAL NOTES - FLOOR PLAN

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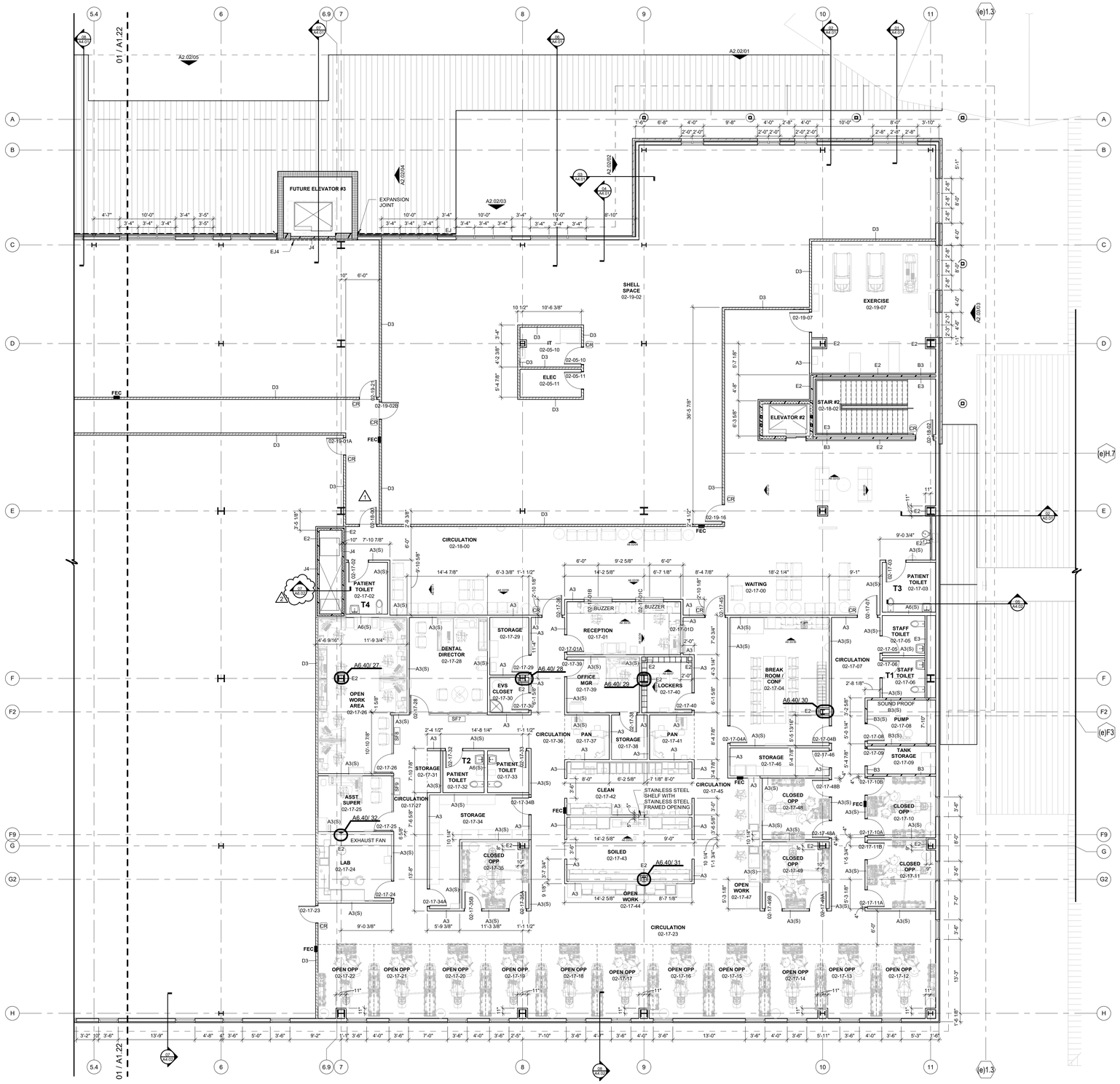


**01 FLOOR PLAN LEVEL 02 SECTOR 01**
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH


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PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT
06-05-20

CONSULTANT LOGO:

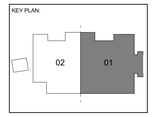
CLIENT:

SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

A1.21

FLOOR PLAN LEVEL 02 SECTOR 01

## GENERAL NOTES - FLOOR PLAN

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## 01 FLOOR PLAN LEVEL 02 SECTOR 02

1/8" = 1'-0"

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA JAMES R. CHILDERS REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

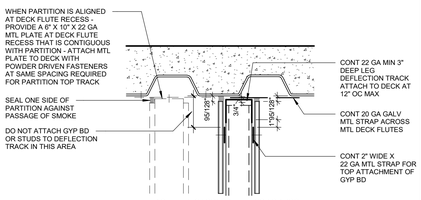
| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

A1.22

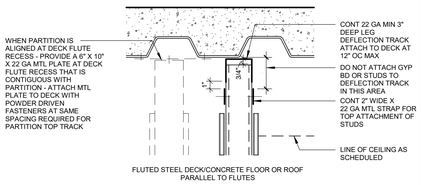
FLOOR PLAN LEVEL 02 SECTOR 02

# HEAD DETAILS - NON RATED



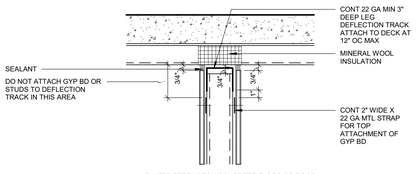

FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

**NON-RATED OR SMOKE RESISTANT**



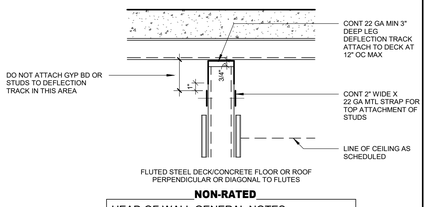

FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

**NON-RATED**




FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

**NON-RATED OR SMOKE RESISTANT**

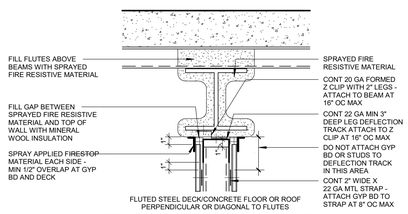



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

**NON-RATED**

| HEAD OF WALL GENERAL NOTES |
|---|
| 1. REFER TO SPECIFICATIONS FOR HEAD OF WALL SLOTTED TRACK OPTIONS FOR METAL STUD WALLS. CONT 2" WIDE X 22 GA METAL STRAP CAN BE DELETED IF OPTIONAL SLOTTED TRACKS ARE SELECTED. |

# HEAD DETAILS - ONE HOUR RATED

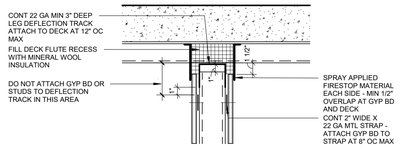



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

**ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER**

**UL-HW-D-0252**

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

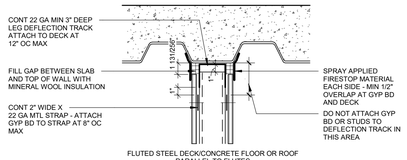



FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PERPENDICULAR OR DIAGONAL TO FLUTES

**ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER**

**UL-HW-D-0107**

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS



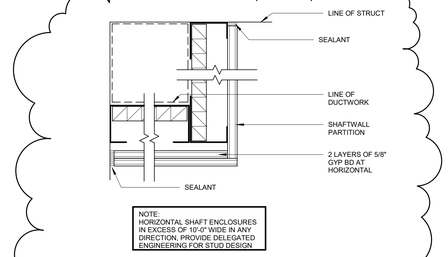

FLUTED STEEL DECK/CONCRETE FLOOR OR ROOF PARALLEL TO FLUTES

**ONE HOUR FIRE RESISTANT AND ONE HOUR FIRE RESISTANT SMOKE BARRIER**

**UL-HW-D-0107**

NOTE:
REFER TO UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS

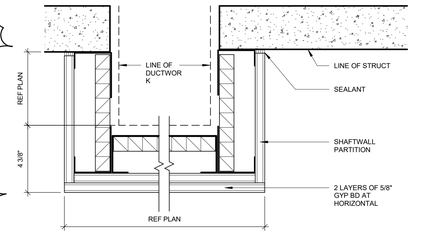
# SHAFT DETAILS - ONE HOUR RATED




NOTE:
HORIZONTAL SHAFT ENCLOSURES IN EXCESS OF 10'-0" WIDE IN ANY DIRECTION, PROVIDE DELEGATED ENGINEERING FOR STUD DESIGN

**08 HORIZONTAL ENCLOSURE AT DUCTWORK FIRE RATED - 1HR**

3" = 1'-0"

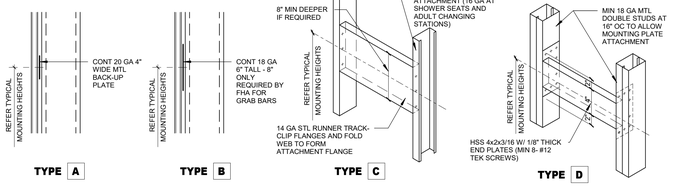



NOTE:
HORIZONTAL SHAFT ENCLOSURES IN EXCESS OF 10'-0" WIDE IN ANY DIRECTION, PROVIDE DELEGATED ENGINEERING FOR STUD DESIGN

**07 HORIZONTAL ENCLOSURE AT BOTTOM OF SHAFTS FIRE RATED-1HR**

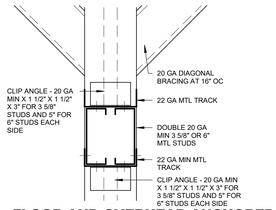
3" = 1'-0"

# ACCESSORY/EQUIPMENT MOUNTING DETAILS



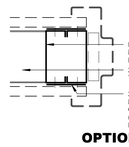

**BARIATRIC GRAB BAR**

# PARTITION FRAMING DETAILS



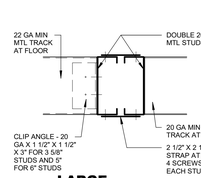

**06 FLOOR AND OVERHEAD ANCHORED TOILET PARTITION HEADER**

3" = 1'-0"



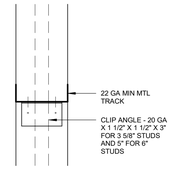

**05 OPTION 2 DOOR OPENING JAMB STUDS**

3" = 1'-0"



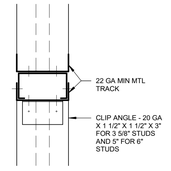

**04 LARGE OPENING JAMB STUDS**

3" = 1'-0"



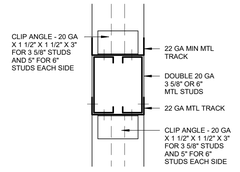

**03 OPENING HEADER**

3" = 1'-0"




**02 DOOR OPENING HEADER**

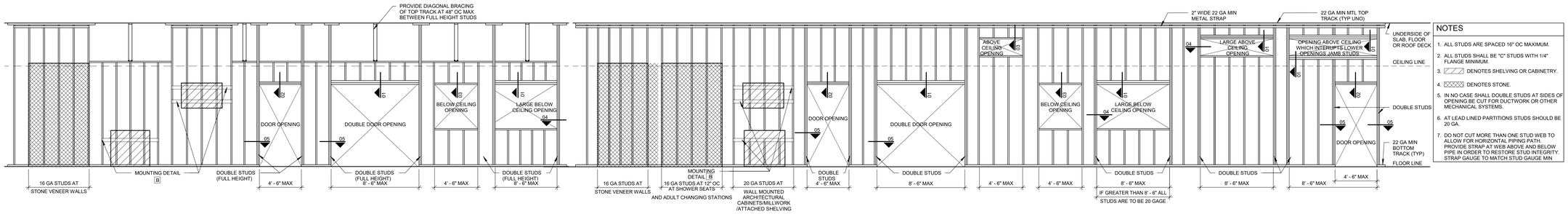
3" = 1'-0"




**01 DOUBLE DOOR/LARGE OPENING HEADER**

3" = 1'-0"

# TYPICAL INTERIOR PARTITION FRAMING




## NOTES

1. ALL STUDS ARE SPACED 16" OC MAXIMUM.
2. ALL STUDS SHALL BE "C" STUDS WITH 1/4" FLANGE MINIMUM.
3. DENOTES SHELVING OR CABINETRY.
4. DENOTES STONE.
5. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
6. AT LEAD LINED PARTITIONS STUDS SHOULD BE 20 GA.
7. DO NOT CUT MORE THAN ONE STUD WEB TO ALLOW FOR HORIZONTAL PIPING PATH. PROVIDE STRAP AT WEB ABOVE AND BELOW PIPE IN ORDER TO RESTORE STUD INTEGRITY. STRAP GAUGE TO MATCH STUD GAUGE MIN.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PROFESSIONAL SEAL:

06-05-20

CONSULTANT LOGO:

CLIENT:

WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02 1

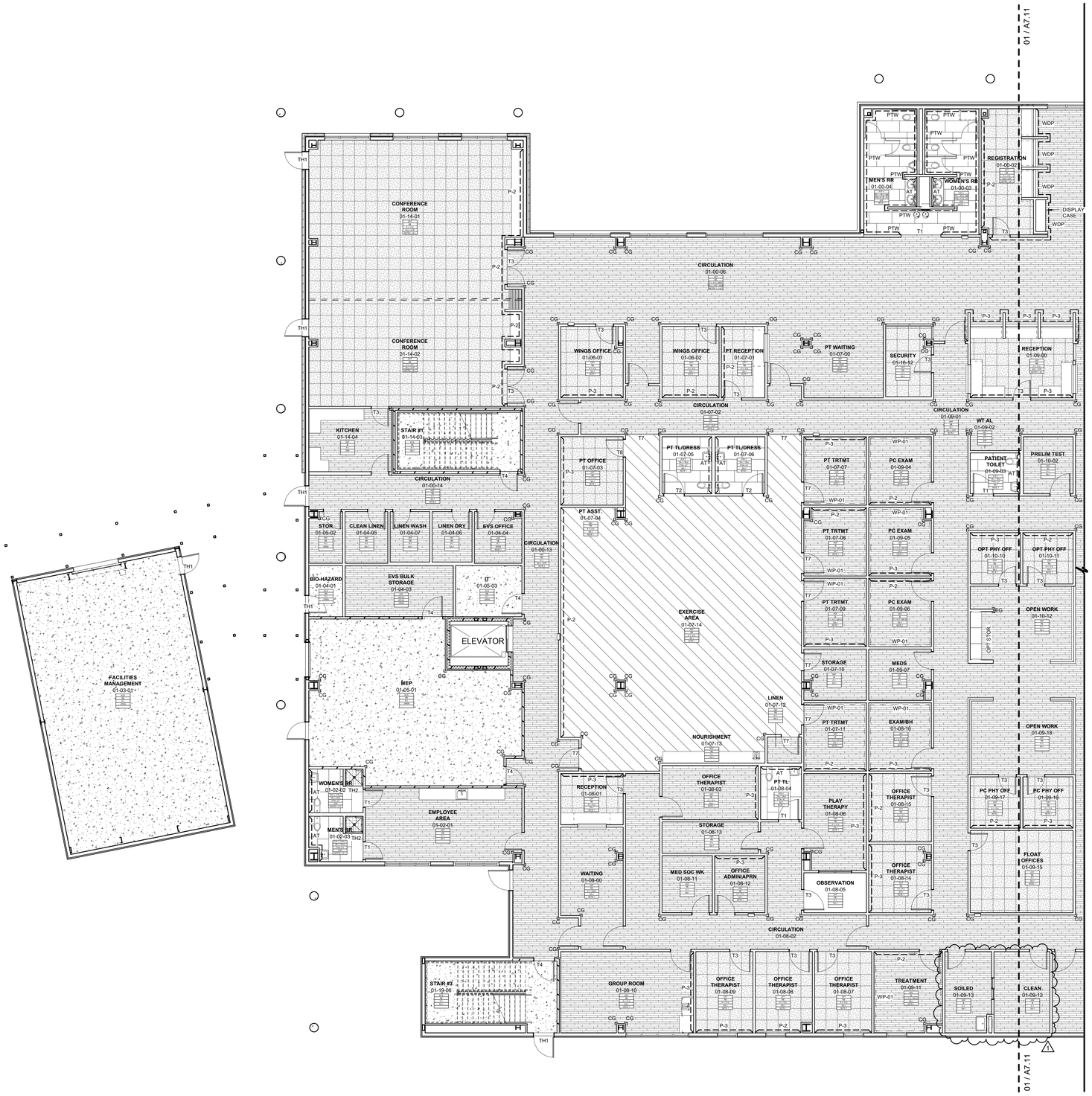
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01 1

SHEET NUMBER: A6.02

PARTITION FRAMING / HEAD DETAILS




PLAN NORTH

TRUE NORTH

**01 ENLARGED FINISH PLAN - LEVEL 01 SECTOR 02**

1/8" = 1'-0"

## FINISH TAG LEGEND

ROOM NAME — **ROOM**
ROOM NUMBER — 100
FLOOR FINISH — CPTX
BASE FINISH — RBX
TYP WALL FINISH — PXX
CEILING — ACT
REMARKS — 1

REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

## FINISH TAG REMARKS

1. SEE FINISH PLANS & ENLARGED FLOOR PATTERN DETAILS FOR FINISH LOCATIONS.
2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS & HEIGHTS.
3. SEE TOILET ELEVATIONS & FINISH PLANS FOR WALL FINISH LOCATIONS.
4. SEE FINISH LEGEND FOR ELEVATOR FINISH LOCATIONS.

## GENERAL NOTES - FINISH PLAN

1. ALL GYPSUM BOARD WALLS TO BE PAINTED P-1 U.N.O.
2. ALL GYPSUM BOARD CEILINGS TO BE PAINTED P-4 U.N.O.
3. SEE SHEETS A1.40, A6.20-21, A8.20 TOILET & SHOWER PLANS / ELEVATIONS / ACCESSORIES.
4. SEE INTERIOR FINISH LEGEND FOR THRESHOLD & TRANSITION DETAILS.
5. SEE INTERIOR ELEVATIONS & MILLWORK ELEVATIONS FOR MILLWORK FINISH TYPES & LOCATIONS.
6. SEE INTERIOR ELEVATIONS & WALL PROTECTION ELEVATIONS FOR WALL PROTECTION FINISH TYPES & LOCATIONS.
7. COORDINATE ALL FLOOR DRAINS, SINKS & CLEAN OUTS W/ PLUMBING - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.
8. WELDING ROD AT WELDED SEAMS SHALL MATCH THE DARKER OF THE COLORS AT SEAMS THAT DIVIDE TWO COLORS U.N.O.
9. ALL RUBBER BASE TO EXTEND TO WALL BEHIND EQUIPMENT REGARDLESS OF EQUIPMENT ELEVATION & ROTATION.
10. ALL FLOOR FINISHES TO EXTEND UNDERNEATH MILLWORK.
11. MANUAL WINDOW SHADES TO BE PROVIDED AT ALL EXTERIOR WINDOW LOCATIONS U.N.O.
12. COORDINATE ALL FLOOR RECEPTACLES W/ ELECTRICAL - IF DISCREPANCIES OCCUR NOTIFY ARCHITECT.

## FINISH MATERIALS LEGEND

| | | | |
|---|---|---|---|
| AT | ACCENT TILE | PL | PLASTIC LAMINATE |
| CG | CORNER GUARD | PTF | PORCELAIN FLOOR TILE |
| CH | CHAIR RAIL | PTW | PORCELAIN WALL TILE |
| CPT | CARPET | RB | RUBBER BASE |
| DH | DOOR HARDWARE | RF | RUBBER FLOOR |
| ECS | EXPOSED CONCRETE - SEALED | RSF | RUBBER SPORTS FLOORING |
| EG | END GUARD | SA | SUSPENDED ACCOUSTIC |
| EM | ENTRY MAT | SB | SANITARY BASE |
| G | GROUT | SS | SOLID SURFACE |
| GYP | GYPSUM BOARD | T | TRANSITIONS |
| HIWC | HIGH MPACT WALL COVERING | TH | THRESHOLDS |
| HM | HOLLOW METAL | TP | TOILET PARTITIONS |
| HSF | HETEROGENEOUS SHEET FLOORING | TR | TRIM |
| IB | INTEGRAL BASE | WD | WOOD DOOR |
| MB | METAL BASE | WDP | WOOD PANELING |
| P | PAINT | WS | WINDOW SHADES |

## FLOOR PATTERN LEGEND

| | |
|---|---|
| HSF | HETEROGENEOUS SHEET FLOORING |
| RF | RUBBER FLOORING |
| CPT | CARPET TILE |
| EM | ENTRY MAT |
| RSF | RUBBER SPORTS FLOOR |
| ECS | EXPOSED CONCRETE - SEALED |
| PTF-1 | PORCELAIN FLOOR TILE |
| PTF-2 | PORCELAIN FLOOR TILE |

## THRESHOLD & TRANSITION LEGEND

| | |
|---|---|
| TH1 | METAL THRESHOLD |
| TH2 | MARBLE THRESHOLD |
| T1 | METAL TRANSITION |
| T2 | METAL TRANSITION |
| T3 | METAL TRANSITION |
| T4 | METAL TRANSITION |
| T5 | METAL TRANSITION |
| T6 | METAL TRANSITION |
| T7 | METAL TRANSITION |
| T8 | METAL TRANSITION |

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

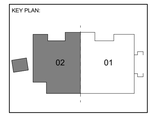
CLIENT:

THE CHEROKEE NATION — TRIBAL SEAL — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

REVISIONS

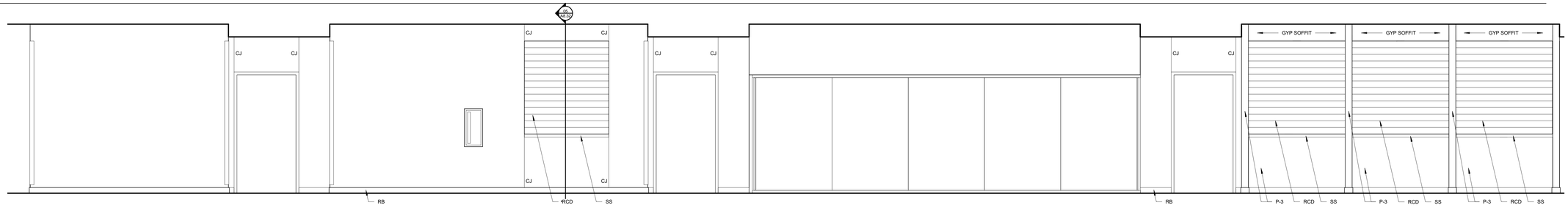
| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

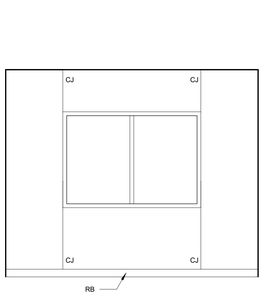
JOB NUMBER: 18-01.01

SHEET NUMBER: A7.12

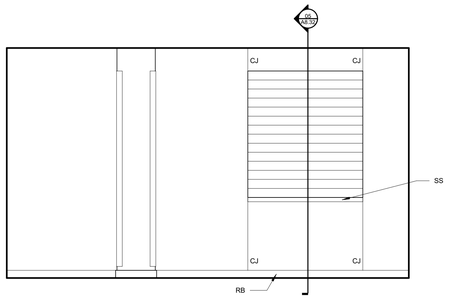
FINISH PLAN LEVEL 01 SECTOR 02



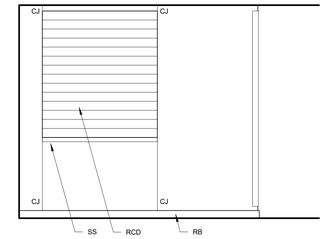

## 09 CIRCULATION 01-00-06 - SOUTH
3/8" = 1'-0"



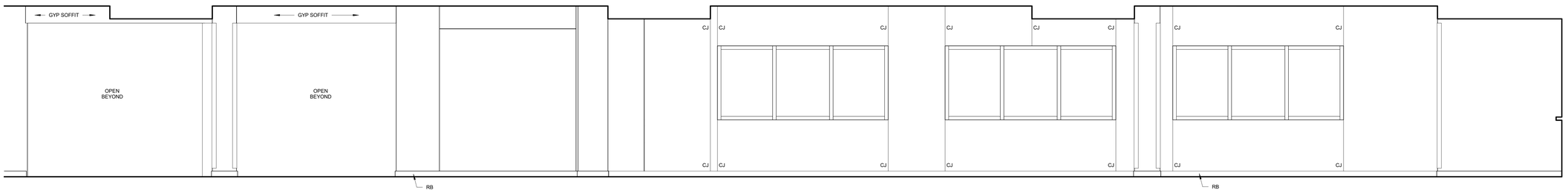

## 08 A - IE - OBSERVATION 01-08-05
3/8" = 1'-0"



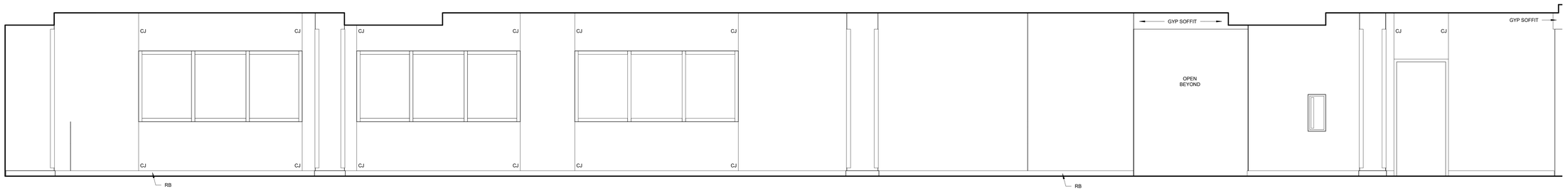

## 07 01-16-01 RECEPTION
3/8" = 1'-0"



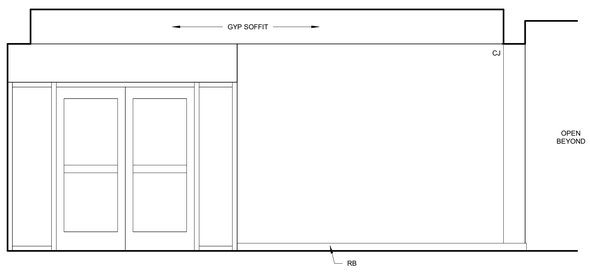

## 06 CIRCULATION 01-00-06 - EAST
3/8" = 1'-0"



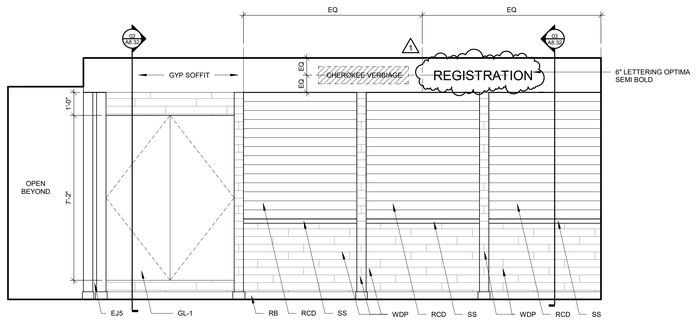

## 05 CIRCULATION 01-00-06 - NORTH - PARTIAL
3/8" = 1'-0"



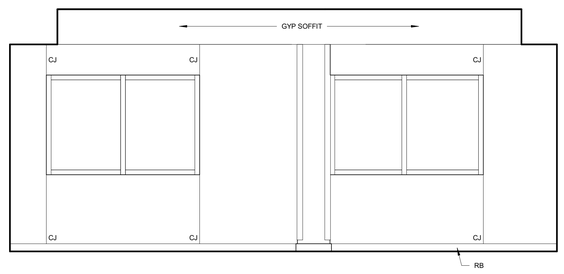

## 04 CIRCULATION 01-00-06 - NORTH - PARTIAL
3/8" = 1'-0"




## 03 LOBBY 01-00-01 - PARTIAL
3/8" = 1'-0"




## 02 LOBBY 01-00-01 - PARTIAL
3/8" = 1'-0"




## 01 LOBBY 01-00-01
3/8" = 1'-0"

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www.childersarchitect.com

PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEAL OF
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

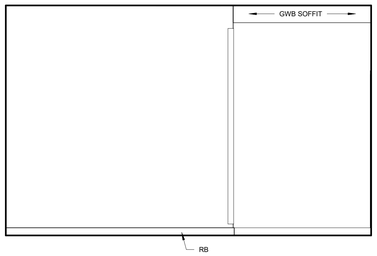
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

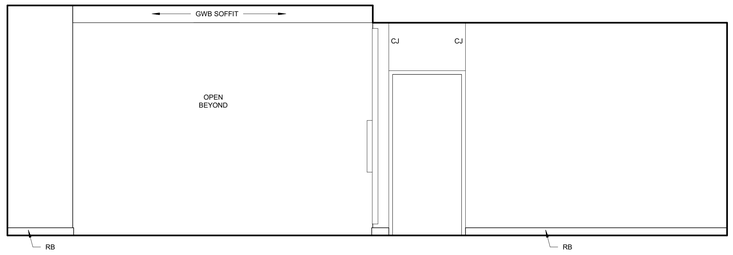
DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
A8.01

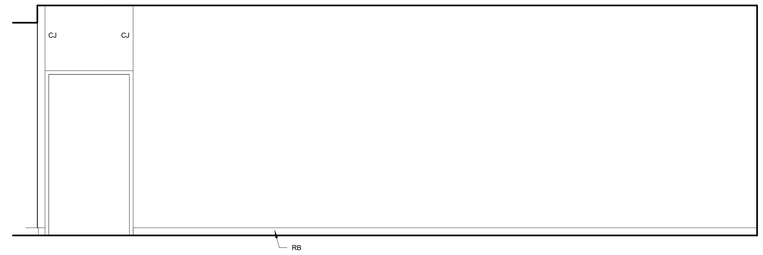
INTERIOR ELEVATIONS



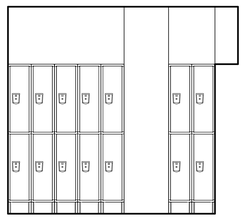

## 11 CIRCULATION 02-18-00 WEST
3/8" = 1'-0"



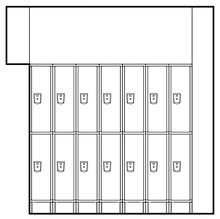

## 10 CIRCULATION 02-18-00 WEST
3/8" = 1'-0"



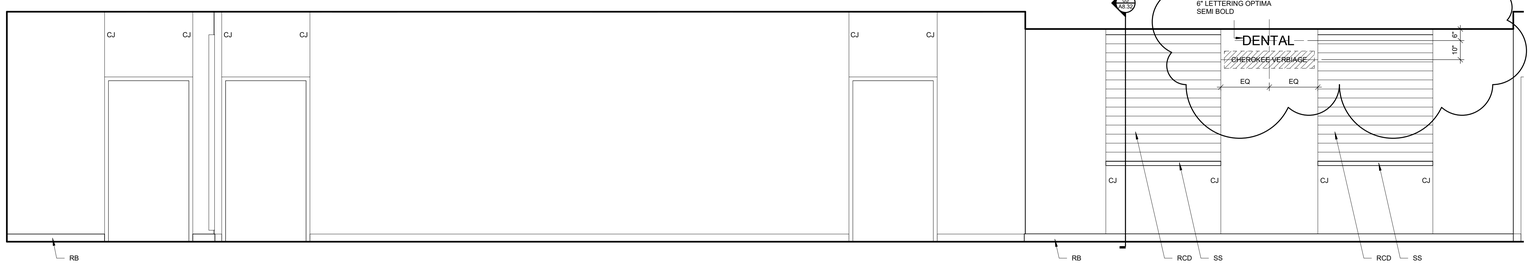

## 09 CIRCULATION 02-18-00 SOUTH
3/8" = 1'-0"



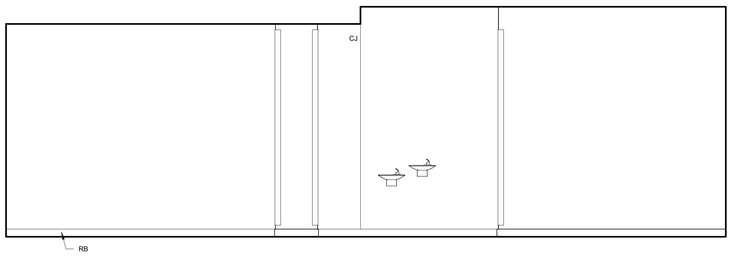
## 08 LOCKERS 02-17-40 WEST
3/8" = 1'-0"



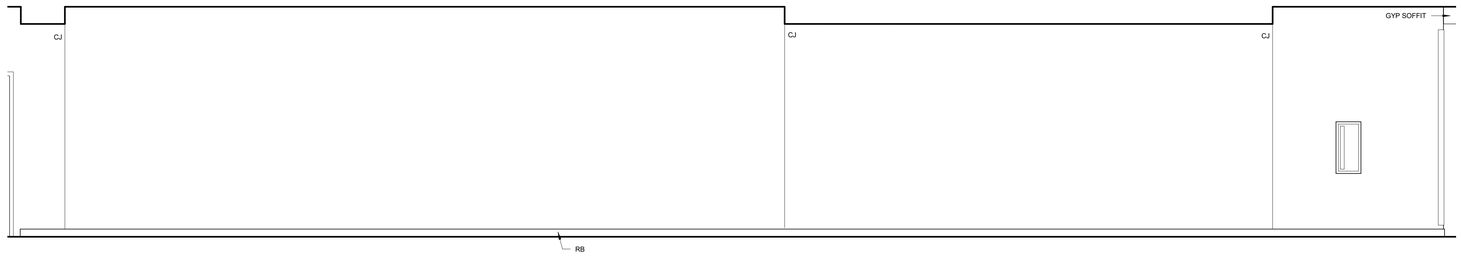
## 07 LOCKERS 02-17-40 NORTH
3/8" = 1'-0"



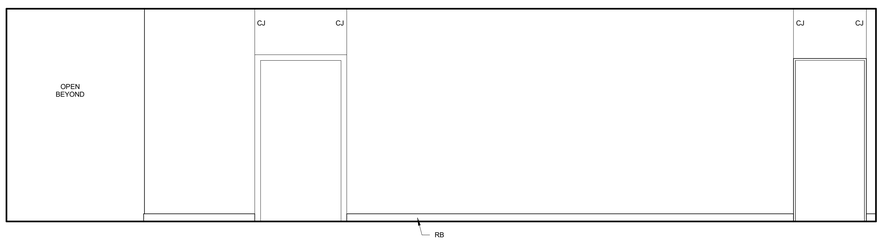

## 06 CIRCULATION 02-18-00 SOUTH
3/8" = 1'-0"



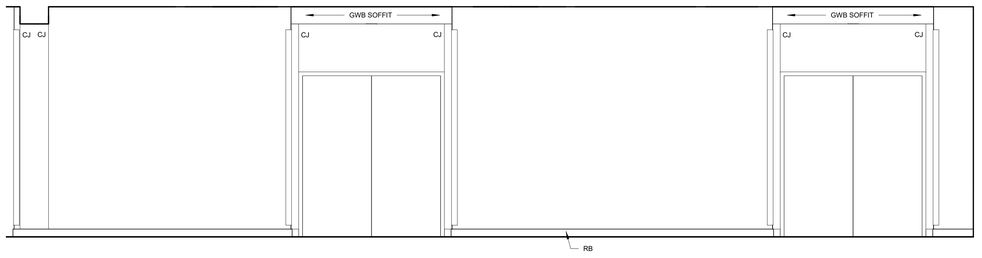

## 05 CIRCULATION 02-18-00 EAST
3/8" = 1'-0"



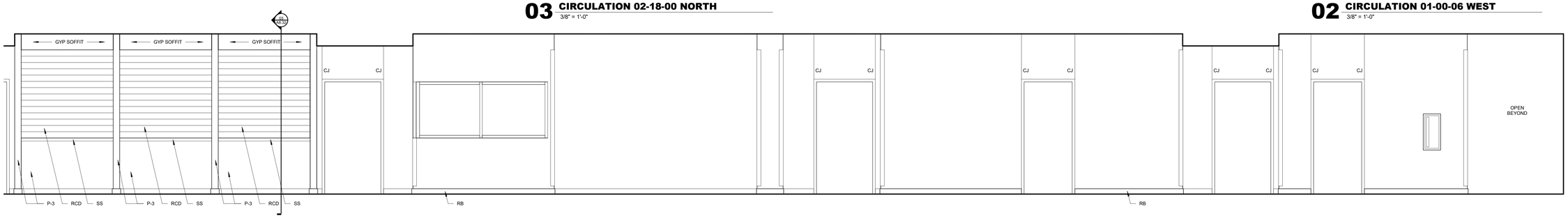

## 04 CIRCULATION 02-18-00 - NORTH
3/8" = 1'-0"




## 03 CIRCULATION 02-18-00 NORTH
3/8" = 1'-0"




## 02 CIRCULATION 01-00-06 WEST
3/8" = 1'-0"




## 01 CIRCULATION 01-00-06 SOUTH
3/8" = 1'-0"

James R. Childers
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45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

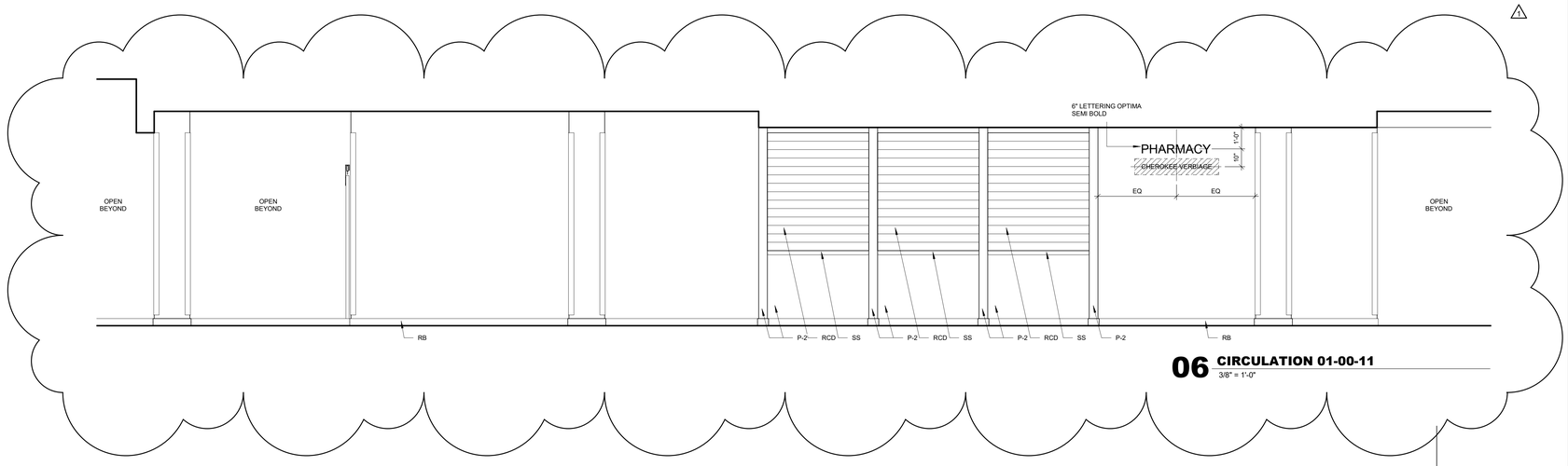
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
A8.02

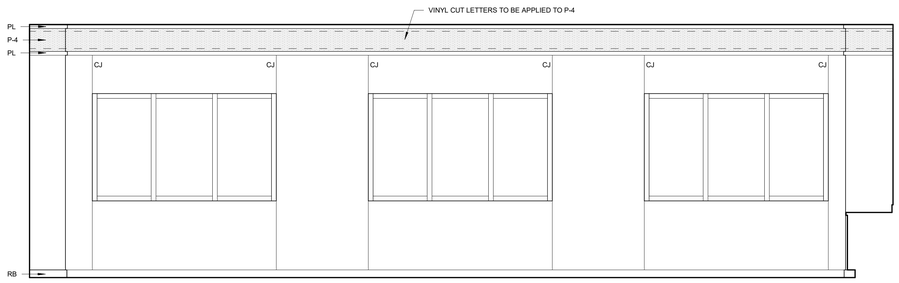
INTERIOR ELEVATIONS



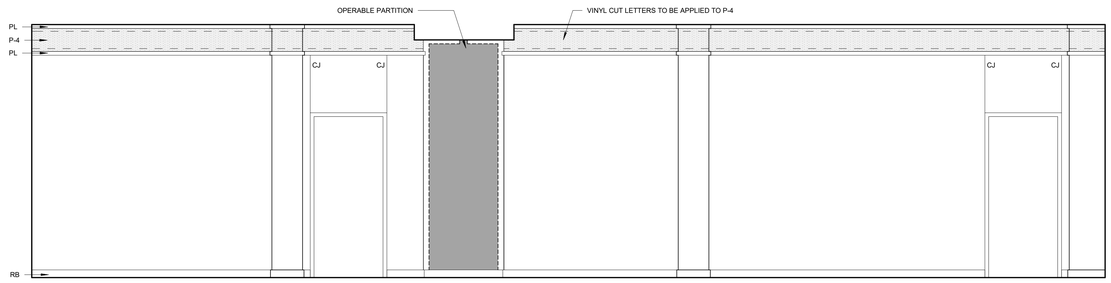

**06 CIRCULATION 01-00-11**
3/8" = 1'-0"



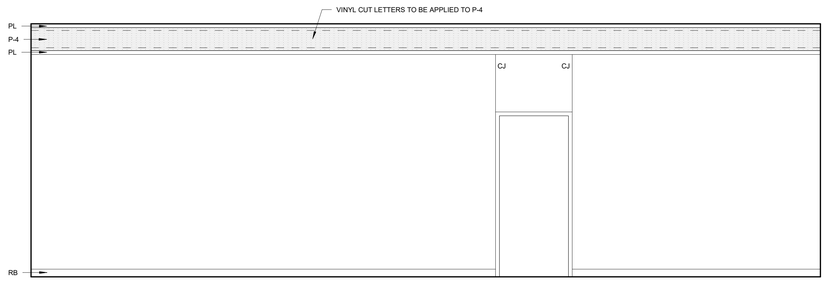

**05 ELEVATION AT SOILED PASS THRU**
3/8" = 1'-0"



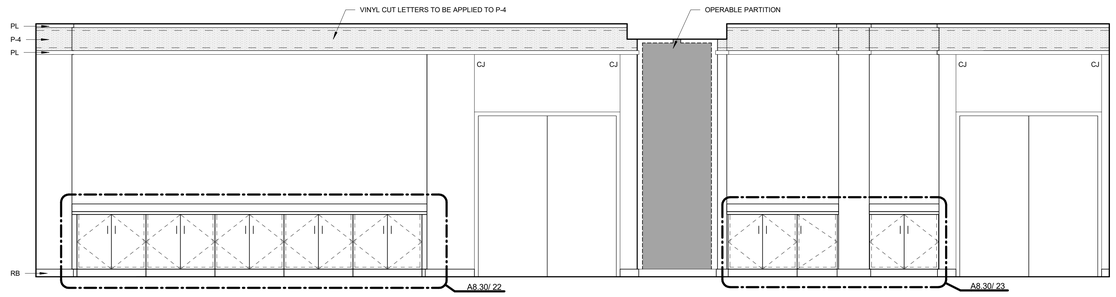

**04 CONFERENCE ROOM 01-14-01**
3/8" = 1'-0"




**03 CONFERENCE ROOM 01-14-01/02**
3/8" = 1'-0"




**02 CONFERENCE ROOM 01-14-02**
3/8" = 1'-0"




**01 CONFERENCE ROOM 01-14-01/02**
3/8" = 1'-0"

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R.
CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEAL OF
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

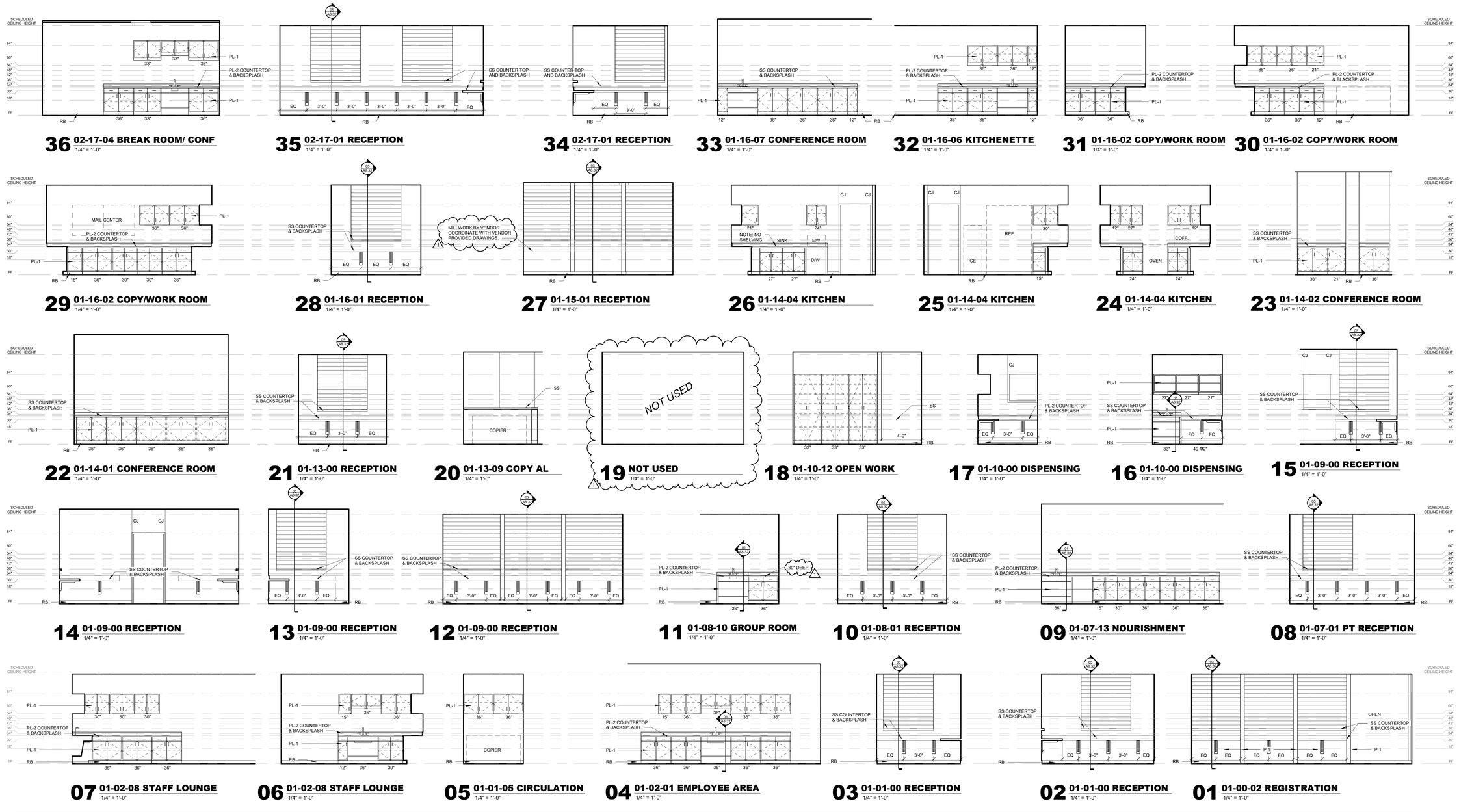
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: A8.03

INTERIOR ELEVATIONS

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

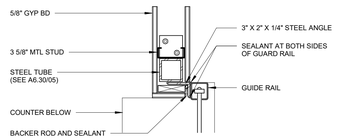
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

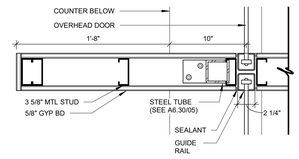
JOB NUMBER: 18-01.01

SHEET NUMBER: A8.30

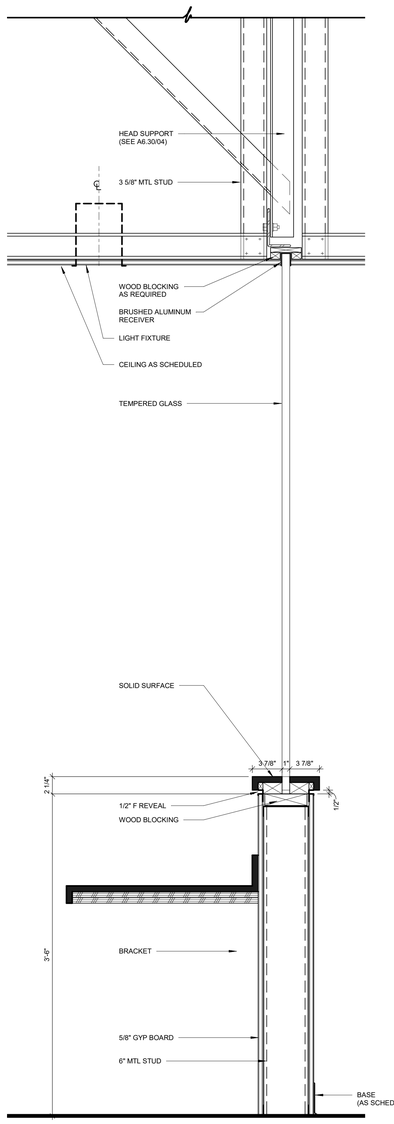
MILLWORK ELEVATIONS



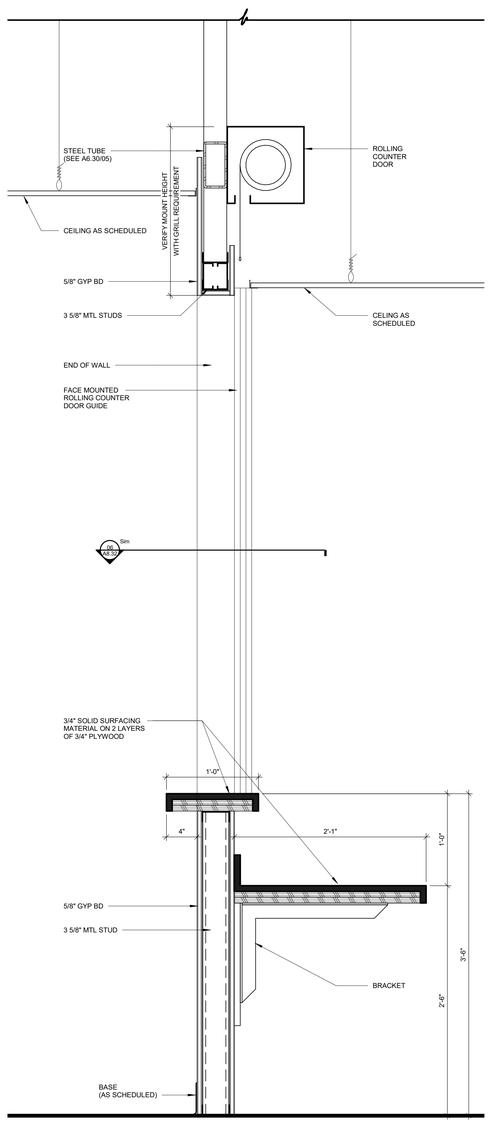

**FACE MOUNTED JAMB DETAIL AT**
## 06 OVERHEAD DOOR
1 1/2" = 1'-0"



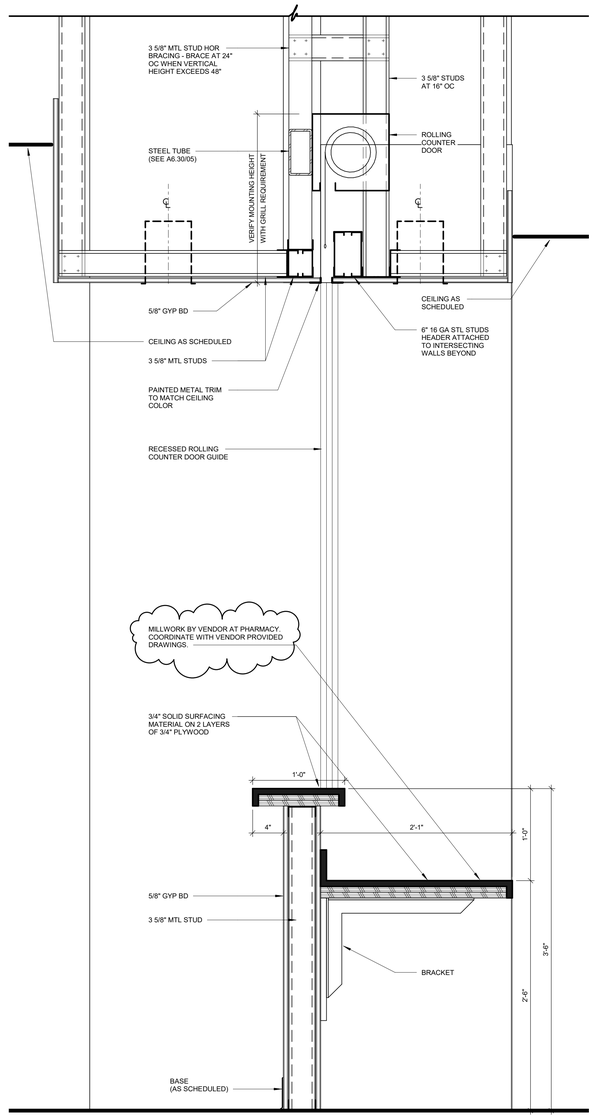

**RECESSED JAMB DETAIL AT**
## 04 OVERHEAD DOOR
1 1/2" = 1'-0"



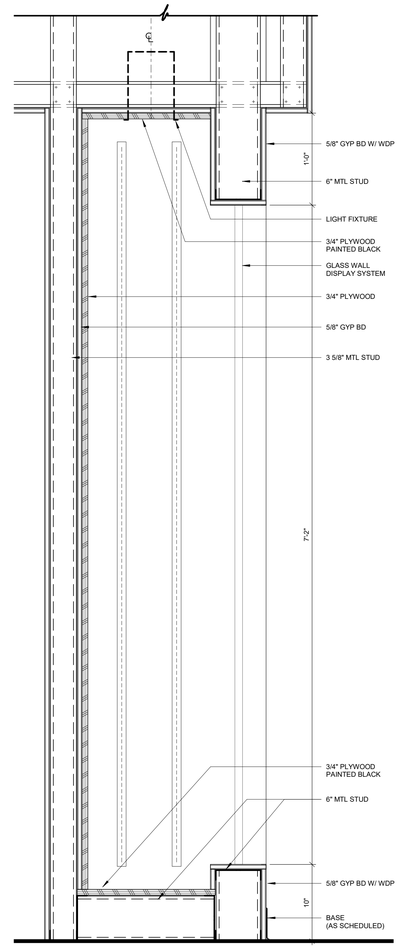

## 07 SECTION AT OPEN WORK
1 1/2" = 1'-0"



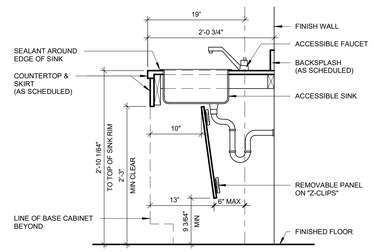

## 05 SECTION AT RECEPTION
1 1/2" = 1'-0"




## 03 SECTION AT REGISTRATION
1 1/2" = 1'-0"




## 02 DISPLAY CASE SECTION
1 1/2" = 1'-0"




## 01 SECTION @ ACCESSIBLE SINK
1" = 1'-0"

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PROFESSIONAL SEAL:

06-05-20

CONSULTANT LOGO:

CLIENT:

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

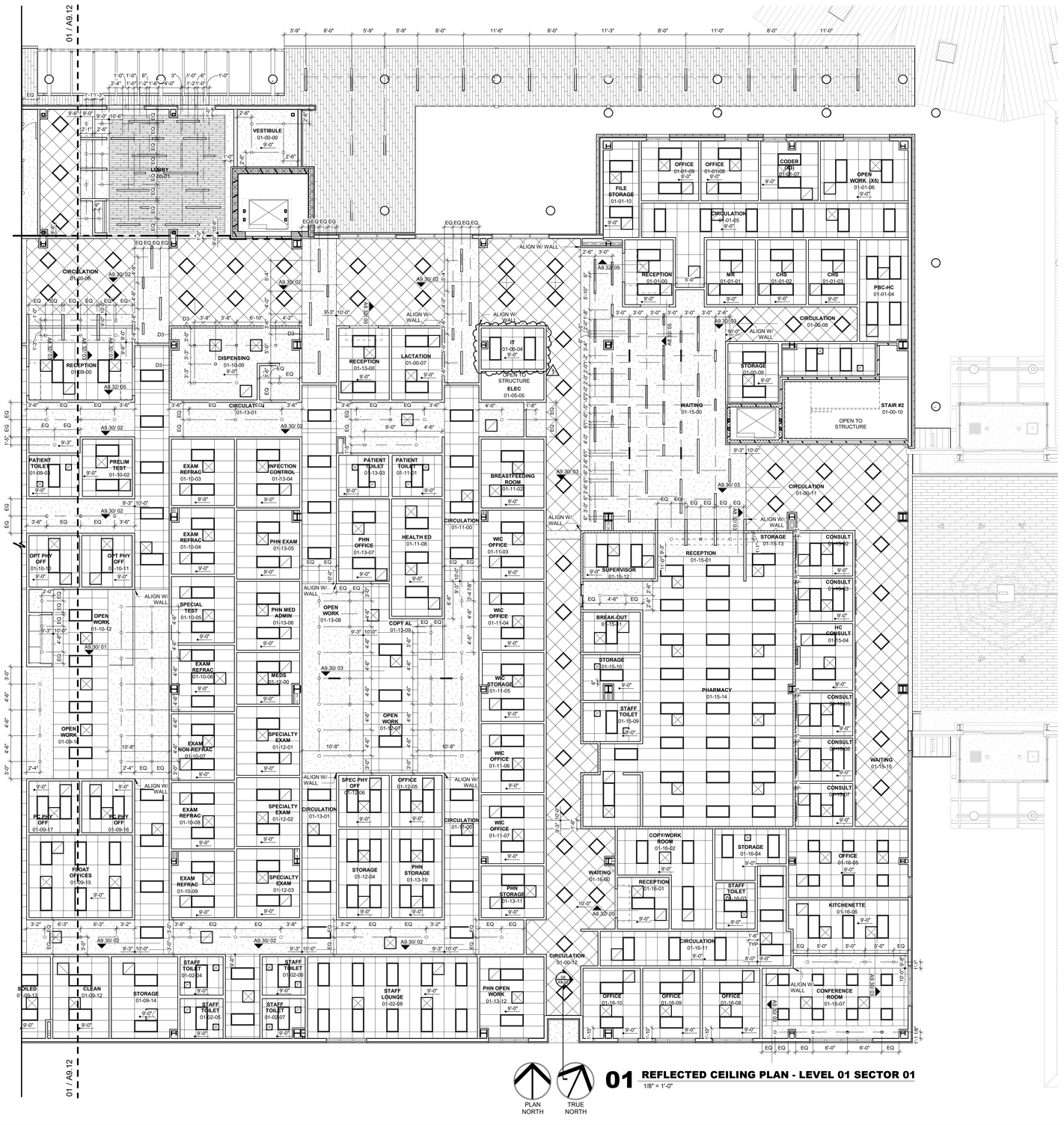
KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

REVISIONS:

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 6/5/2020 | BID PACKAGE 02 - A31:04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: A8.32
MILLWORK SECTIONS




**01 REFLECTED CEILING PLAN - LEVEL 01 SECTOR 01**
1/8" = 1'-0"

PLAN NORTH

TRUE NORTH

## CEILING SYMBOLS

- GYPSUM BOARD CEILING
- WOOD CEILING
- 2 x 2 LAY-IN
- 2 x 4 LAY-IN
- OPEN TO STRUCTURE CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- SUSPENDED LED LIGHT
- CONTROL JOINT
- LED TROFFER
- RECESSED LIGHT
- LINEAR DIFFUSERS
- RECESSED CAN

## GENERAL NOTES

1. ALL CEILINGS SHALL BE 9' - 0" ABOVE FINISHED FLOOR, U.N.O. (COORDINATE W/ OWNER-FURNISHED VENDOR DRAWINGS & EQUIPMENT)
2. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP & ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
3. REFERENCE MECHANICAL & ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OF INDICATED.
4. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES & MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
5. ALL CORRIDOR SPRINKLER HEADS SHALL BE ALIGNED IN THE SAME LOCATION PARALLEL TO THE WALL WITHIN EACH SPECIFIC CEILING CONSTRUCTION. ARCHITECTURALLY SIGNIFICANT SPRINKLER HEAD LOCATIONS MAY BE SHOWN ON REFLECTED CEILING PLAN FOR DESIGN INTENT ONLY.
6. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS & MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS.
7. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURALLY SIGNIFICANT.
8. ALL GYPSUM BOARD CEILINGS TO BE PAINTED P-4 U.N.O.
9. DIMENSIONS AT CUBICLE CURTAIN TRACKS ARE TO CENTER OF TRACK, TYP.
10. ALL CUBICLE CURTAIN TRACKS MUST CLEAR DOOR SWINGS BY 3' MINIMUM.

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

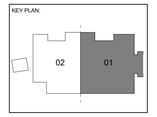
CLIENT:

THE CHEROKEE NATION — SEAT OF THE CHEROKEE NATION — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: A9.11

CEILING PLAN LEVEL 01 SECTOR 01

## CEILING SYMBOLS

- GYPSUM BOARD CEILING
- WOOD CEILING
- 2 x 2 LAY-IN
- 2 x 4 LAY-IN
- OPEN TO STRUCTURE CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- SUSPENDED LED LIGHT
- CONTROL JOINT
- LED TROFFER
- RECESSED LIGHT
- LINEAR DIFFUSERS
- RECESSED CAN

## GENERAL NOTES

1. ALL CEILINGS SHALL BE 9' - 0" ABOVE FINISHED FLOOR, U.N.O. (COORDINATE W/ OWNER-FURNISHED VENDOR DRAWINGS & EQUIPMENT)
2. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP & ARCHITECTURAL DOCUMENTS IN THE LOCATION OF CEILING MOUNTED COMPONENTS, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN. IN THE CASE OF MAJOR DISCREPANCIES, THE ARCHITECT SHALL BE NOTIFIED AS SOON AS THE DISCREPANCY IS DISCOVERED PRIOR TO PROCEEDING WITH THE WORK.
3. REFERENCE MECHANICAL & ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OF INDICATED.
4. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES & MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, U.N.O.
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9. DIMENSIONS AT CUBICLE CURTAIN TRACKS ARE TO CENTER OF TRACK, TYP.
10. ALL CUBICLE CURTAIN TRACKS MUST CLEAR DOOR SWINGS BY 3' MINIMUM.

**01 REFLECTED CEILING PLAN - LEVEL 01 SECTOR 02**
1/8" = 1'-0"

PLAN NORTH / TRUE NORTH


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Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com


PROFESSIONAL SEAL:

STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

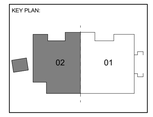
CLIENT:

TRIBAL SEAL OF THE CHEROKEE NATION — ESTD. SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

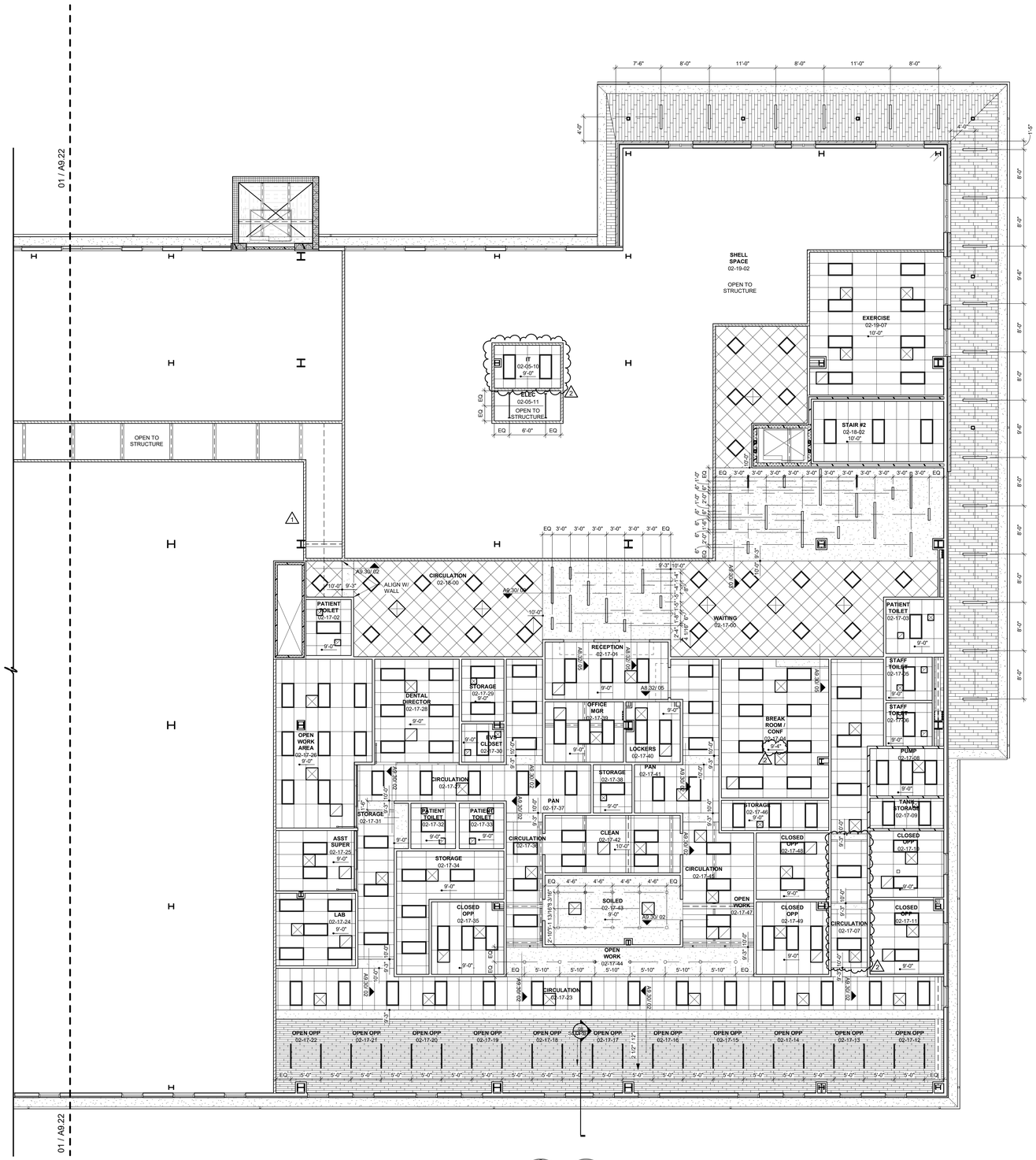
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: A9.12

CEILING PLAN LEVEL 01 SECTOR 02




PLAN NORTH

TRUE NORTH

## 01 REFLECTED CEILING PLAN - LEVEL 02 SECTOR 01

1/8" = 1'-0"

### CEILING SYMBOLS

- GYPSUM BOARD CEILING
- WOOD CEILING
- 2 x 2 LAY-IN
- 2 x 4 LAY-IN
- OPEN TO STRUCTURE CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- SUSPENDED LED LIGHT
- CONTROL JOINT
- LED TROFFER
- RECESSED LIGHT
- LINEAR DIFFUSERS
- RECESSED CAN

### GENERAL NOTES

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

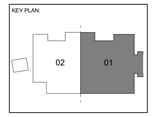
CLIENT:

THE CHEROKEE NATION — SEAL OF — SEPT. 6, 1839 — TSA-LA-GI

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

A9.21

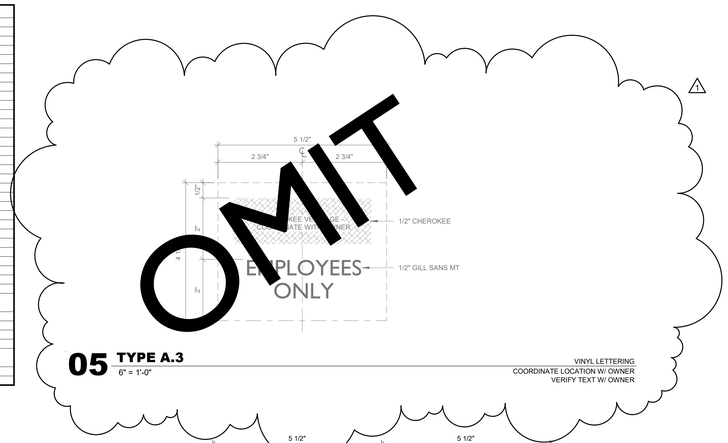
CEILING PLAN LEVEL 02 SECTOR 01

## SIGNAGE SCHEDULE

| MARK | SIGN TYPE | VERBIAGE | REMARKS |
|---|---|---|---|
| 00 - PUBLIC FACILITIES | | | |
| 01-00-00A | A.1 | SEE SIGNAGE ELEVATIONS | MOUNT ON GLASS |
| 01-00-00B | A.1 | SEE SIGNAGE ELEVATIONS | MOUNT ON GLASS |
| 01-00-00C | A.1 | SEE SIGNAGE ELEVATIONS | MOUNT ON GLASS |
| 010002 | D.1 | REGISTRATION | |
| 010003 | E.3 | WOMEN | |
| 010004 | E.2 | MEN | |
| 010007 | E.1 | LACTATION | |
| 010009 | D.2 | STORAGE | |
| 010010 | F.1 | STAIRWAY | |
| 010013A | F.2 | SEE SIGNAGE ELEVATIONS | |
| 010013B | F.2 | STAIRWAY | |
| 011500 | F.2 | SEE SIGNAGE ELEVATIONS | |
| 01 - MEDICAL RECORDS | | | |
| 010100 | D.1 | RECEPTION | |
| 010101A | D.1 | MEDICAL RECORDS | |
| 010101B | D.1 | MEDICAL RECORDS | |
| 010102A | D.1 | CHS | |
| 010102B | D.1 | CHS | |
| 010103A | D.1 | CHS | |
| 010103B | D.1 | CHS | |
| 010104A | D.1 | PBC - HC | |
| 010104B | D.1 | PBC - HC | |
| 010106 | D.1 | OPEN WORK AREA | |
| 010107 | D.1 | CODER | |
| 010108 | D.1 | OFFICE | |
| 010109 | D.1 | OFFICE | |
| 010110 | D.2 | FILE STORAGE | |
| 02 - EMPLOYEE FACILITIES | | | |
| 010201 | D.1 | EMPLOYEE AREA | |
| 010202 | E.3 | WOMEN | |
| 010203 | E.2 | MEN | |
| 010204 | E.1 | STAFF RESTROOM | |
| 010205 | E.1 | STAFF RESTROOM | |
| 010206 | E.1 | STAFF RESTROOM | |
| 010207 | E.1 | STAFF RESTROOM | |
| 010208A | D.1 | STAFF LOUNGE | |
| 010208B | D.1 | STAFF LOUNGE | |
| 04 - HOUSEKEEPING | | | |
| 010402 | D.2 | HOUSEKEEPING | |
| 010403 | D.2 | BULK STORAGE | |
| 010404 | D.1 | EVS OFFICE | |
| 010405 | D.2 | CLEAN LINEN | |
| 010406 | D.2 | LINEN DRY | |
| 010407 | D.2 | LINEN WASH | |
| 05 - MEP SPACE | | | |
| 010501A | D.2 | MEP | |
| 010503 | D.2 | IT | |
| 010504B | D.2 | IT | |
| 010505B | D.2 | ELECTRICAL | |
| 06 - WINGS | | | |
| 010601 | D.1 | OFFICE | |
| 010602 | D.1 | OFFICE | |
| 07 - PHYSICAL THERAPY | | | |
| 010701 | D.1 | RECEPTION | |
| 010703 | D.1 | OFFICE | |
| 010705 | E.1 | RESTROOM | |
| 010706 | E.1 | RESTROOM | |
| 010707 | D.1 | TREATMENT | |
| 010708 | D.1 | TREATMENT | |
| 010709 | D.1 | TREATMENT | |
| 010710 | D.2 | STORAGE | |
| 010711 | D.1 | TREATMENT | |
| 010712 | D.2 | LINEN | |
| 08 - BEHAVIORAL HEALTH | | | |
| 010803 | D.1 | THERAPIST OFFICE | |
| 010804 | E.1 | RESTROOM | |
| 010805 | D.1 | OBSERVATION | |
| 010806 | D.1 | PLAY THERAPY | |
| 010807 | D.1 | THERAPIST OFFICE | |
| 010808 | D.1 | THERAPIST OFFICE | |
| 010809 | D.1 | THERAPIST OFFICE | |
| 010810 | D.1 | GROUP THERAPY | |
| 010811 | D.1 | SOCIAL WORK | |
| 010812 | D.1 | OFFICE | |
| 010813 | D.2 | STORAGE | |
| 09 - PRIMARY CARE | | | |
| 010900 | D.1 | RECEPTION | |
| 010903 | E.1 | RESTROOM | |
| 010904 | D.1 | EXAM | |
| 010905 | D.1 | EXAM | |
| 010906 | D.1 | EXAM | |
| 010907 | D.1 | MEDS | |
| 010908 | D.1 | EXAM | |
| 010910 | D.1 | THERAPIST OFFICE | |
| 010911 | D.1 | TREATMENT | |
| 010912 | D.1 | CLEAN | |
| 010913 | D.1 | SOILED | |
| 010914 | D.2 | STORAGE | |
| 010915 | D.1 | FLOATING OFFICES | |
| 010916 | D.1 | PHYSICIAN'S OFFICE | |
| 010917 | D.1 | PHYSICIAN'S OFFICE | |
| 0109090 | D.1 | THERAPIST OFFICE | |
| 10 - EYE CARE | | | |
| 011000 | D.1 | DISPENSING | |
| 011002 | D.1 | PRELIMINARY TESTING | |
| 011003 | D.1 | EXAM REFRACTION | |
| 011004 | D.1 | EXAM REFRACTION | |
| 011005 | D.1 | SPECIAL TESTING | |
| 011006 | D.1 | EXAM REFRACTION | |
| 011007 | D.1 | EXAM NON-REFRACTION | |
| 011008 | D.1 | EXAM REFRACTION | |
| 011009 | D.1 | EXAM REFRACTION | |
| 011010 | D.1 | PHYSICIAN'S OFFICE | |
| 011011 | D.1 | PHYSICIAN'S OFFICE | |
| 11 - WIC | | | |
| 011101 | E.1 | RESTROOM | |
| 011102 | D.1 | BREASTFEEDING | |
| 011103 | D.1 | WIC OFFICE | |
| 011104 | D.1 | WIC OFFICE | |
| 011105 | D.2 | STORAGE | |
| 011106 | D.1 | WIC OFFICE | |
| 011107 | D.1 | WIC OFFICE | |
| 011108 | D.2 | HEALTH EDUCATION | |
| 011303 | E.1 | RESTROOM | |
| 12 - SPECIALTY CARE | | | |
| 011200 | D.2 | MEDS | |
| 011201 | D.1 | SPECIALTY EXAM | |
| 011202 | D.1 | SPECIALTY EXAM | |
| 011203 | D.1 | SPECIALTY EXAM | |
| 011204 | D.2 | STORAGE | |
| 13 - PUBLIC HEALTH | | | |
| 011300 | D.1 | RECEPTION | |
| 011304 | D.1 | INFECTION CONTROL | |
| 011305 | D.1 | PHN EXMA | |
| 011306 | D.1 | PHN MED ADMIN | |
| 011307 | D.1 | OFFICE | |
| 011310 | D.2 | STORAGE | |
| 011311 | D.2 | STORAGE | |
| 011312 | D.1 | OPEN WORK | |
| 14 - COMMUNITY SPACES | | | |
| 011401A | D.1 | CONFERENCE ROOM | |
| 011402A | D.1 | CONFERENCE ROOM | |
| 011403 | D.2 | STORAGE | |
| 011404A | D.2 | KITCHEN | |
| 011405 | D.2 | STORAGE | |
| 15 - PHARMACY | | | |
| 011502A | D.1 | CONSULT | MOUNT ON DOOR |
| 011502B | D.1 | CONSULT | |
| 011503A | D.1 | CONSULT | MOUNT ON DOOR |
| 011503B | D.1 | CONSULT | |
| 011504A | D.1 | CONSULT | MOUNT ON DOOR |
| 011504B | D.1 | CONSULT | |
| 011505A | D.1 | CONSULT | MOUNT ON DOOR |
| 011505B | D.1 | CONSULT | |
| 011506A | D.1 | CONSULT | MOUNT ON DOOR |
| 011506B | D.1 | CONSULT | |
| 011507A | D.1 | CONSULT | |
| 011507B | D.1 | CONSULT | |
| 011509 | E.1 | STAFF RESTROOM | |
| 011510 | D.2 | STORAGE | |
| 011511A | D.1 | BREAK - OUT | |
| 011511B | D.1 | BREAK - OUT | |
| 011512 | D.1 | SUPERVISOR | |
| 16 - ADMINISTRATION | | | |
| 011601 | D.1 | RECEPTION | |
| 011602 | D.1 | COPY/WORK ROOM | |
| 011603 | E.1 | STAFF RESTROOM | |
| 011604 | D.2 | STORAGE | |
| 011605 | D.1 | OFFICE | |
| 011606A | D.1 | KITCHEN | |
| 011607 | D.1 | CONFERENCE ROOM | |
| 011608 | D.1 | OFFICE | |
| 011609 | D.1 | OFFICE | |
| 011610 | D.1 | OFFICE | |
| 011612 | D.1 | SECURITY | |
| 17 - DENTAL | | | |
| 021701 | D.1 | RECEPTION | |
| 021702 | E.1 | RESTROOM | |
| 021703 | E.1 | RESTROOM | |
| 021704 | D.1 | BREAK ROOM | |
| 021705 | E.1 | RESTROOM | |
| 021706 | E.1 | RESTROOM | |
| 021708 | D.2 | PUMP | |
| 021709 | D.2 | STORAGE | |
| 021710A | D.1 | CLOSED OPERATORY | |
| 021710B | D.1 | CLOSED OPERATORY | |
| 021711A | D.1 | CLOSED OPERATORY | |
| 021711B | D.1 | CLOSED OPERATORY | |
| 021724 | D.1 | LAB | |
| 021725 | E.1 | ASSISTANT SUPERVISOR | MOUNT ON GLASS |
| 021726 | D.1 | OPEN WORK AREA | MOUNT ON GLASS |
| 021728 | D.1 | DENTAL DIRECTOR | MOUNT ON GLASS |
| 021729 | D.2 | STORAGE | |
| 021730 | D.2 | HOUSEKEEPING | |
| 021732 | E.1 | RESTROOM | |
| 021733 | E.1 | RESTROOM | |
| 021734A | D.2 | STORAGE | |
| 021734B | D.1 | STORAGE | |
| 021735A | D.1 | CLOSED OPERATORY | |
| 021735B | D.1 | CLOSED OPERATORY | |
| 021739 | D.1 | OFFICE MANAGER | |
| 021740 | D.2 | LOCKERS | |
| 021742A | D.1 | CLEAN | |
| 021742B | D.1 | CLEAN | |
| 021743A | D.1 | SOILED | |
| 021743B | D.1 | SOILED | |
| 021746 | D.2 | STORAGE | |
| 021748A | D.1 | CLOSED OPERATORY | |
| 021748B | D.1 | CLOSED OPERATORY | |
| 021749A | D.1 | CLOSED OPERATORY | |
| 021749B | D.1 | CLOSED OPERATORY | |
| 18 - SECOND FLOOR CIRCULATION | | | |
| 020512 | D.2 | ELECTRICAL | |
| 021800 | F.2 | SEE SIGNAGE ELEVATIONS | |
| 021802 | F.1 | STAIRWAY | |
| 021908 | F.1 | SEE SIGNAGE ELEVATIONS | |
| 19 - SHELL SPACE | | | |
| 021901A | D.2 | SHELL SPACE | |
| 021902B | D.2 | SHELL SPACE | |

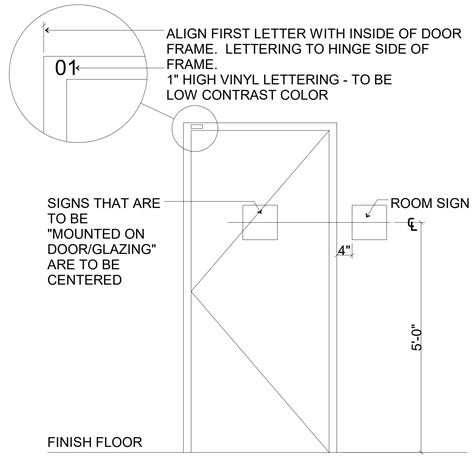
### GENERAL NOTES

1. ALL SIGNAGE TO BE TAMPERPROOF.
2. ALL SIGNAGE TO HAVE ENGLISH & CHEROKEE VERBIAGE, COORDINATE VERBIAGE W/ OWNER.
3. COORDINATE ALL CUSTOM SIGNAGE DIMENSIONS, COLORS, LOGOS & ARTWORK W/ OWNER & ARCHITECT. (CUSTOM ELEMENTS NOT SHOWN)
4. VERIFY QUANTITY W/ OWNER.
5. VERIFY LOCATION W/ OWNER PRIOR TO MOUNTNG SIGNAGE ON GLAZING.
6. ALL CAST METAL SIGNAGE TO BE GEMINI - FLAT FACE PROFILE LETTERS - OPTIMA SEMI-BOLD FONT. (COLOR & FONT TO MATCH EXISTING)



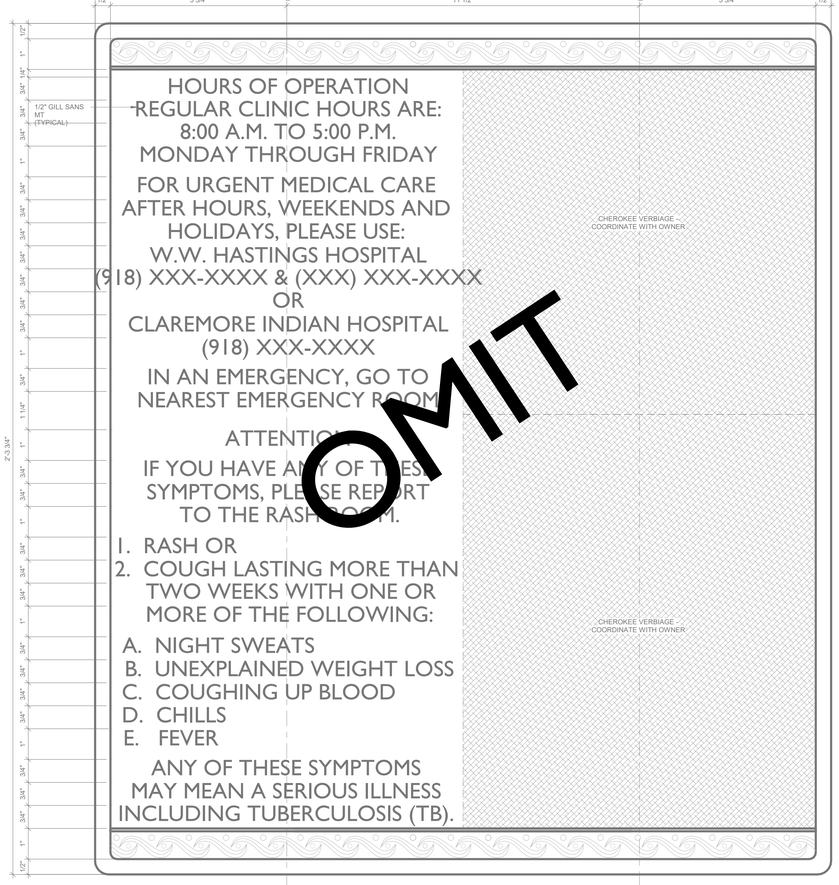

**05 TYPE A.3** — 6" = 1'-0"
VINYL LETTERING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER

**04 TYPE A.2** — 6" = 1'-0"
VINYL LETTERING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER

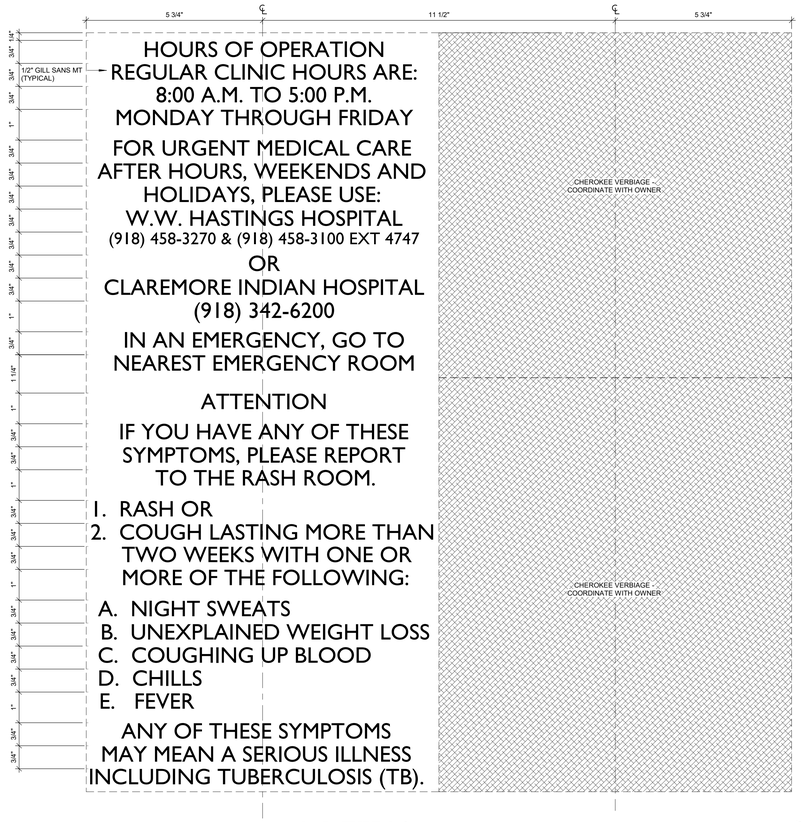



HOLLOW METAL FRAME LETTERING & DOOR/ROOM SIGNAGE.
ONE DOOR/ROOM SIGN REQUIRED - PLACE ON WALL,
IF NO ROOM IS AVAILABLE PLACE ON DOOR.

**02 SIGNAGE MOUNTING LOCATIONS** — 3/4" = 1'-0"




**03 TYPE B.1** — 6" = 1'-0"
VINYL LETTERING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER




**01 TYPE A.1** — 6" = 1'-0"
VINYL LETTERING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER


James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com


PROFESSIONAL SEAL:
STATE OF OKLAHOMA — JAMES R. CHILDERS — REGISTERED ARCHITECT
06-05-20

CONSULTANT LOGO:

CLIENT:
TRIBAL SEAL OF THE CHEROKEE NATION — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

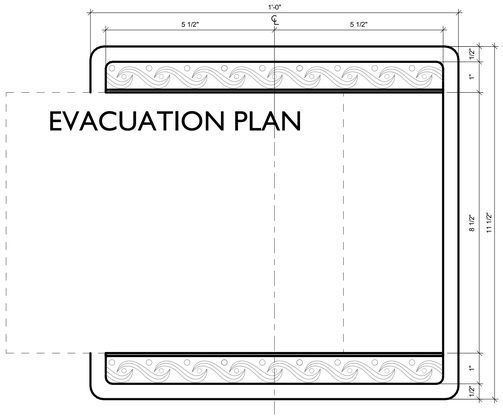
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

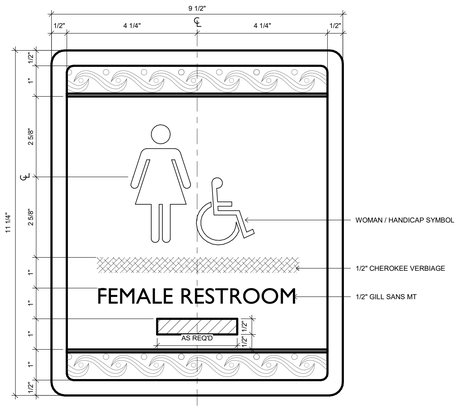
| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
A10.00

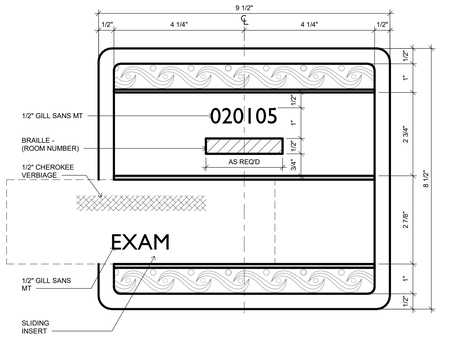
SIGNAGE SCHEDULE & ELEVATIONS



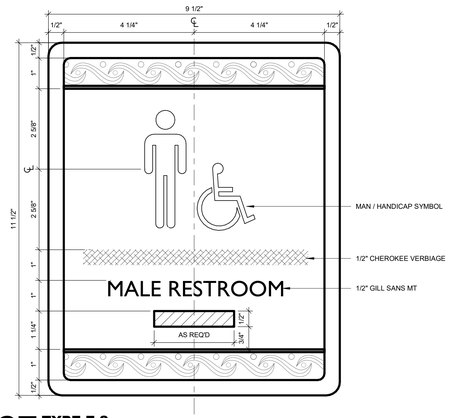

**11 TYPE H** 6" = 1'-0"
MODEL: EVH2-E1
EVACUATION PLAN PROVIDED BY OWNER
COORDINATE LOCATIONS W/ OWNER



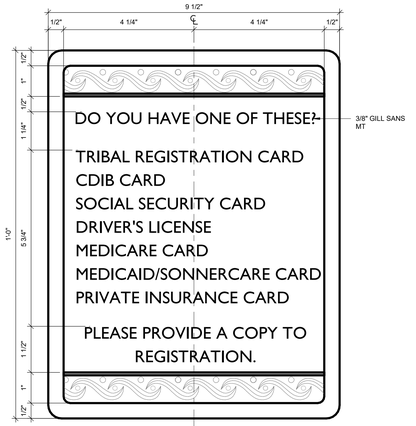

**08 TYPE E.3** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING




**04 TYPE D.1** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING
VERIFY TEXT W/ OWNER



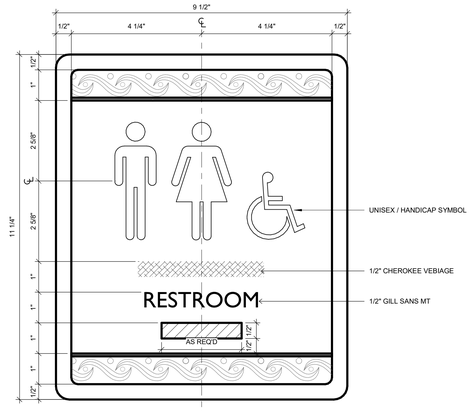

**07 TYPE E.2** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING




**03 TYPE C.3** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER

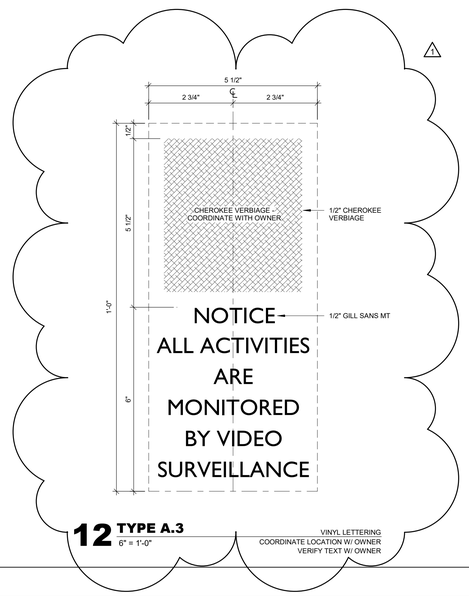



**10 TYPE F.2** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING

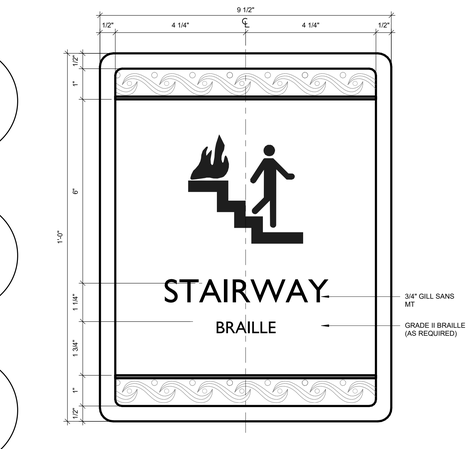



**06 TYPE E.1** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING

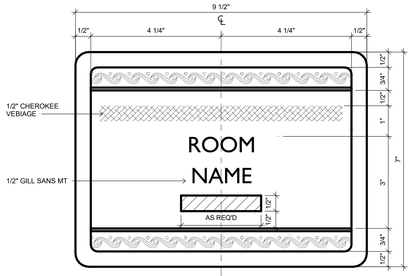
**02 TYPE C.2** 6" = 1'-0"
CUSTOM SIGNAGE TO MATCH EXISTING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER



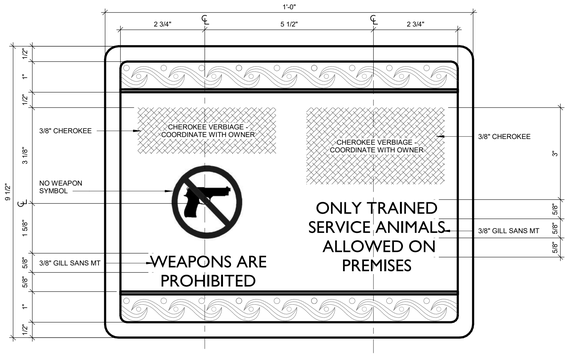

**12 TYPE A.3** 6" = 1'-0"
VINYL LETTERING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER




**09 TYPE F.1** 6" = 1'-0"
CUSTOM SIGNAGE - TO MATCH EXISTING
VERIFY TEXT W/ OWNER




**05 TYPE D.2** 6" = 1'-0"
CUSTOM SIGNAGE - TO MATCH EXISTING
VERIFY TEXT W/ OWNER




**01 TYPE B.2** 6" = 1'-0"
CUSTOM SIGNAGE - TO MATCH EXISTING
COORDINATE LOCATION W/ OWNER
VERIFY TEXT W/ OWNER

James R. Childers
Architect, Inc.
45 South 4th Street
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479-783-2480
www.childersarchitect.com

PROFESSIONAL SEAL:
STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT
06-05-20

CONSULTANT LOGO:

CLIENT:
THE CHEROKEE NATION
SEPT. 6, 1839

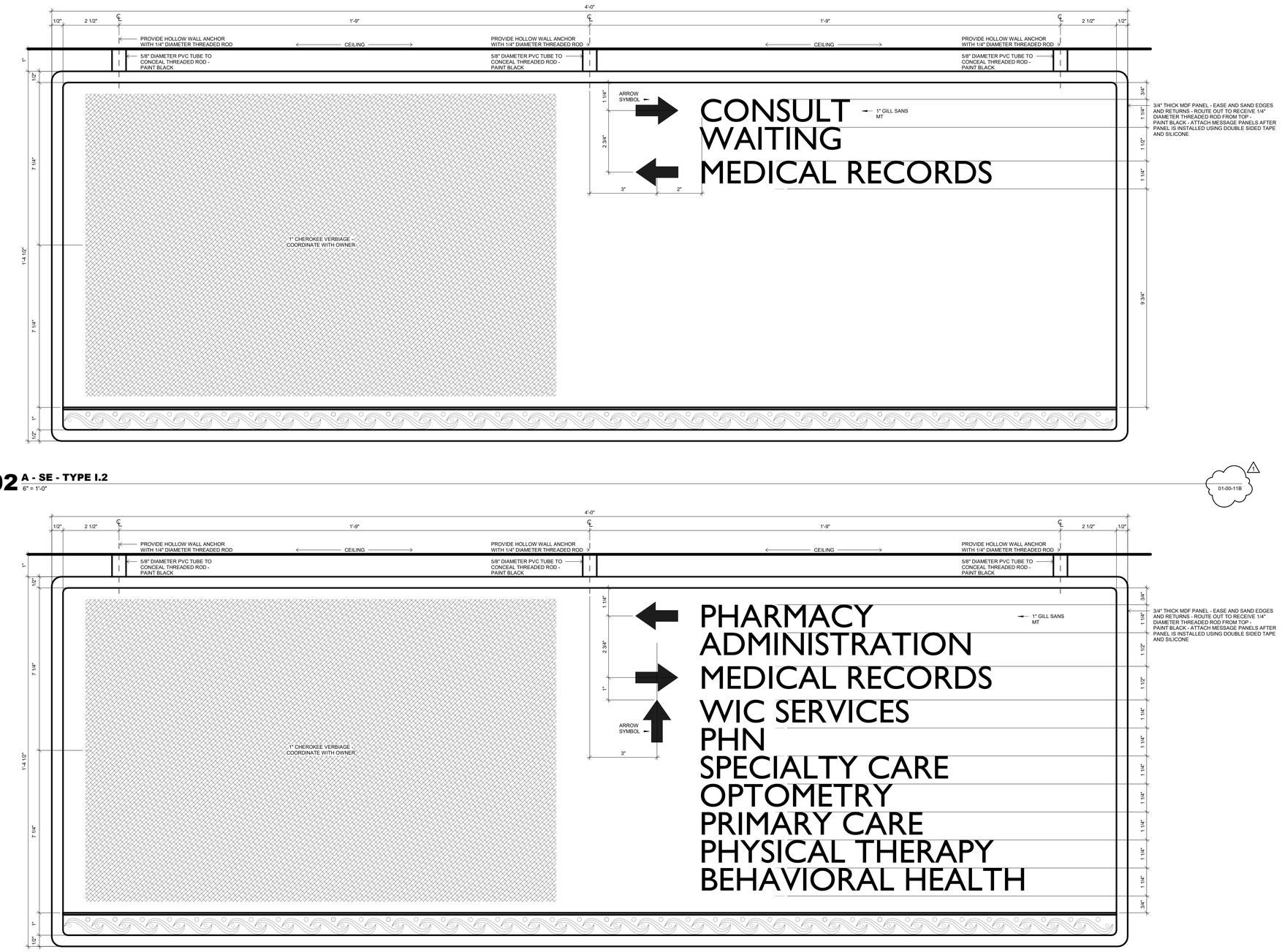
WILMA P. MANKILLER HEALTH CENTER
EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: A10.01
SIGNAGE ELEVATIONS




**02** A - SE - TYPE I.2
6" = 1'-0"

1 01-00-11B

**01** A - SE - TYPE I.1
6" = 1'-0"

1 01-00-11A

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www.childersarchitect.com

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JAMES R. CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
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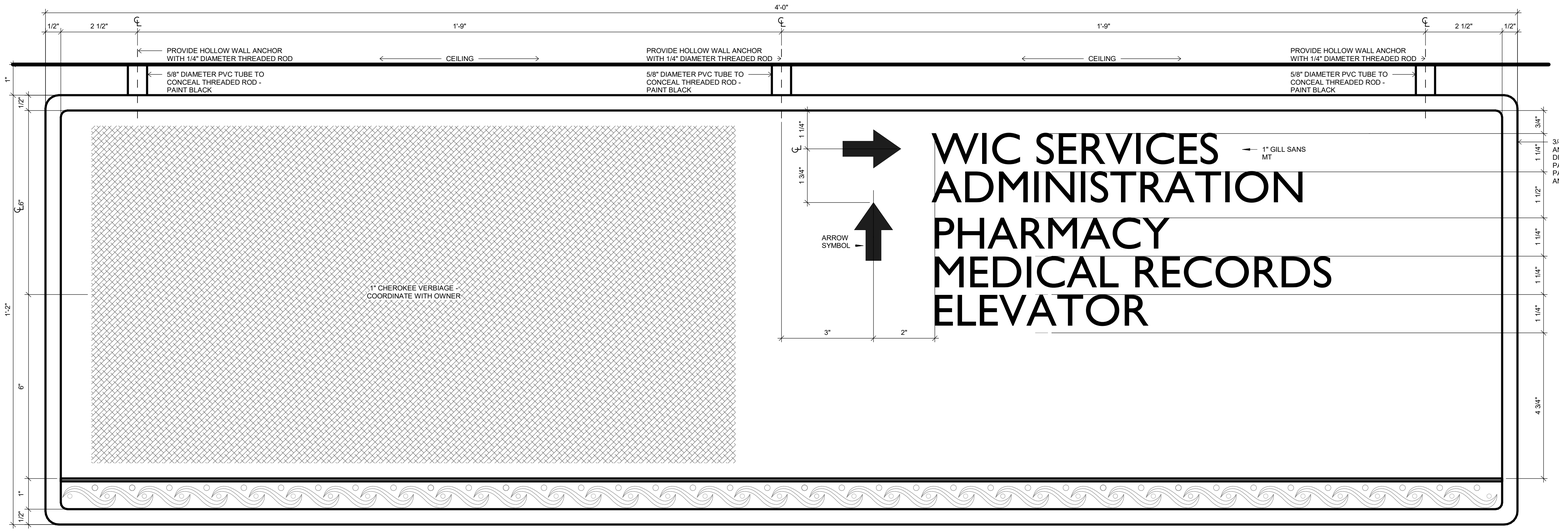
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

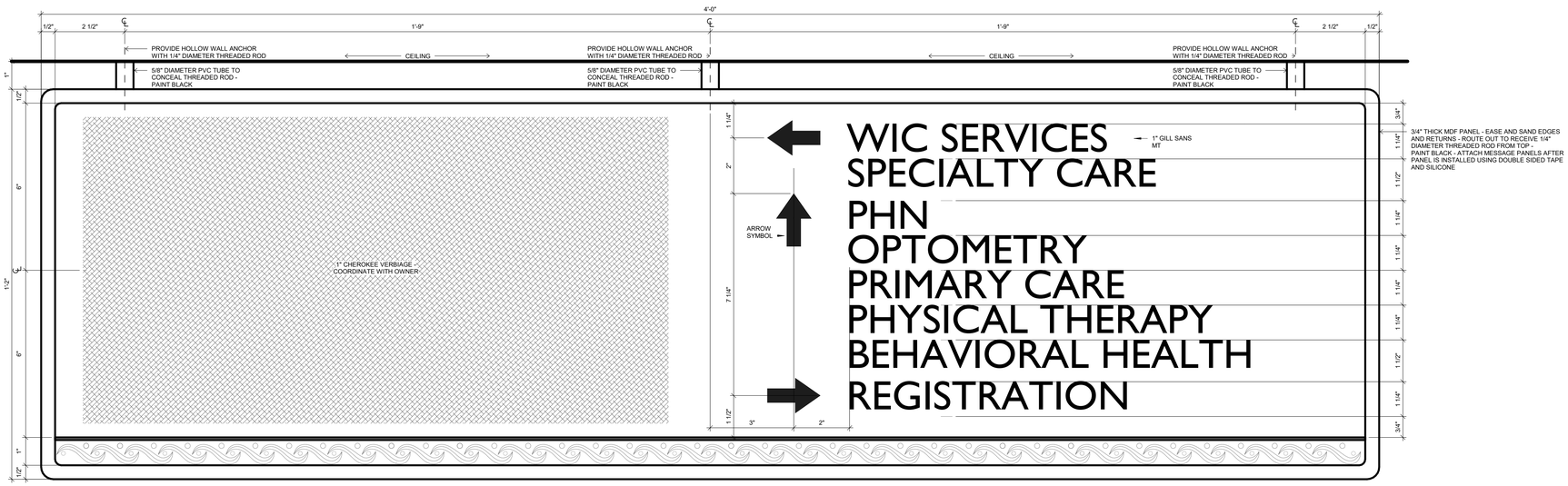
| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
A10.02

SIGNAGE ELEVATIONS




**02** A - SE - TYPE I.4
6" = 1'-0"




**01** A - SE - TYPE I.3
6" = 1'-0"

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PROFESSIONAL SEAL:

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06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
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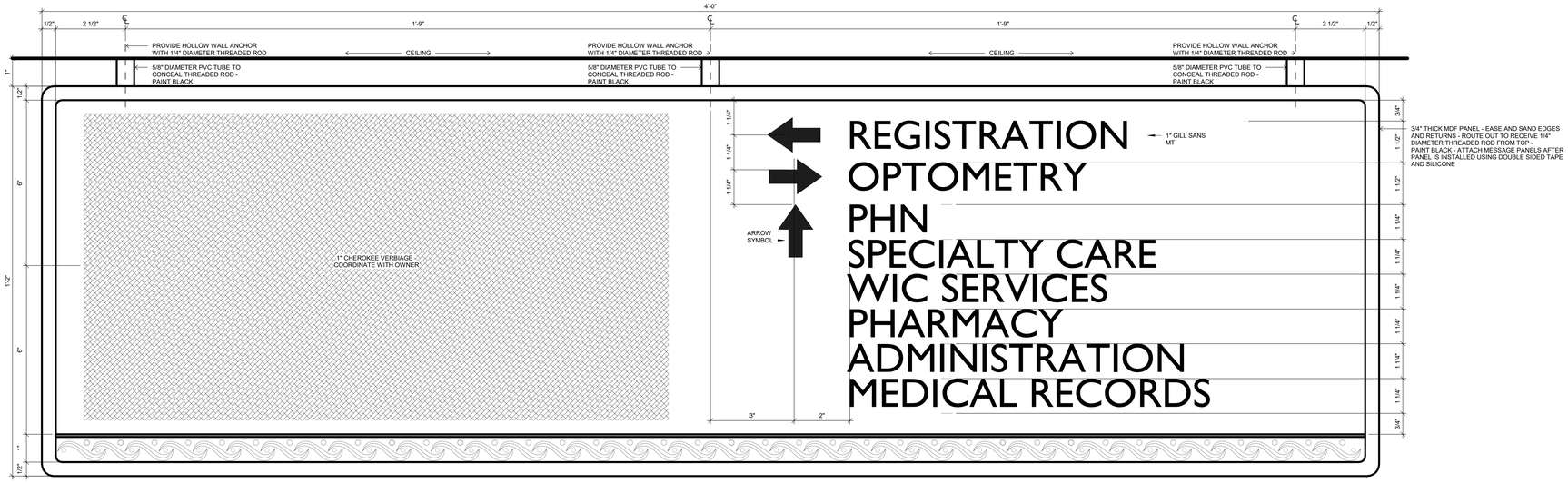
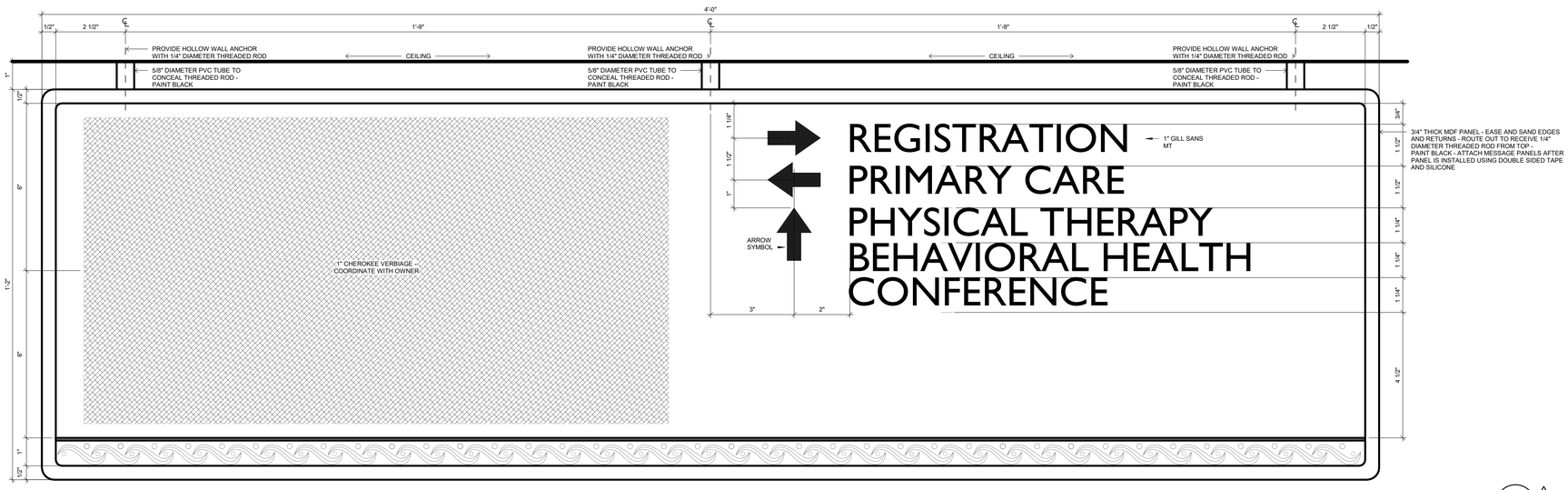
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: A10.03
SIGNAGE ELEVATIONS




**02** **A - SE - TYPE I.6**
6" = 1'-0"

01-00-06D




**01** **A - SE - TYPE I.5**
6" = 1'-0"

01-00-06C

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PROFESSIONAL SEAL:

STATE OF OKLAHOMA
JAMES R. CHILDERS
REGISTERED ARCHITECT

06-05-20

CONSULTANT LOGO:

CLIENT:

THE CHEROKEE NATION
SEAL OF
SEPT. 6, 1839

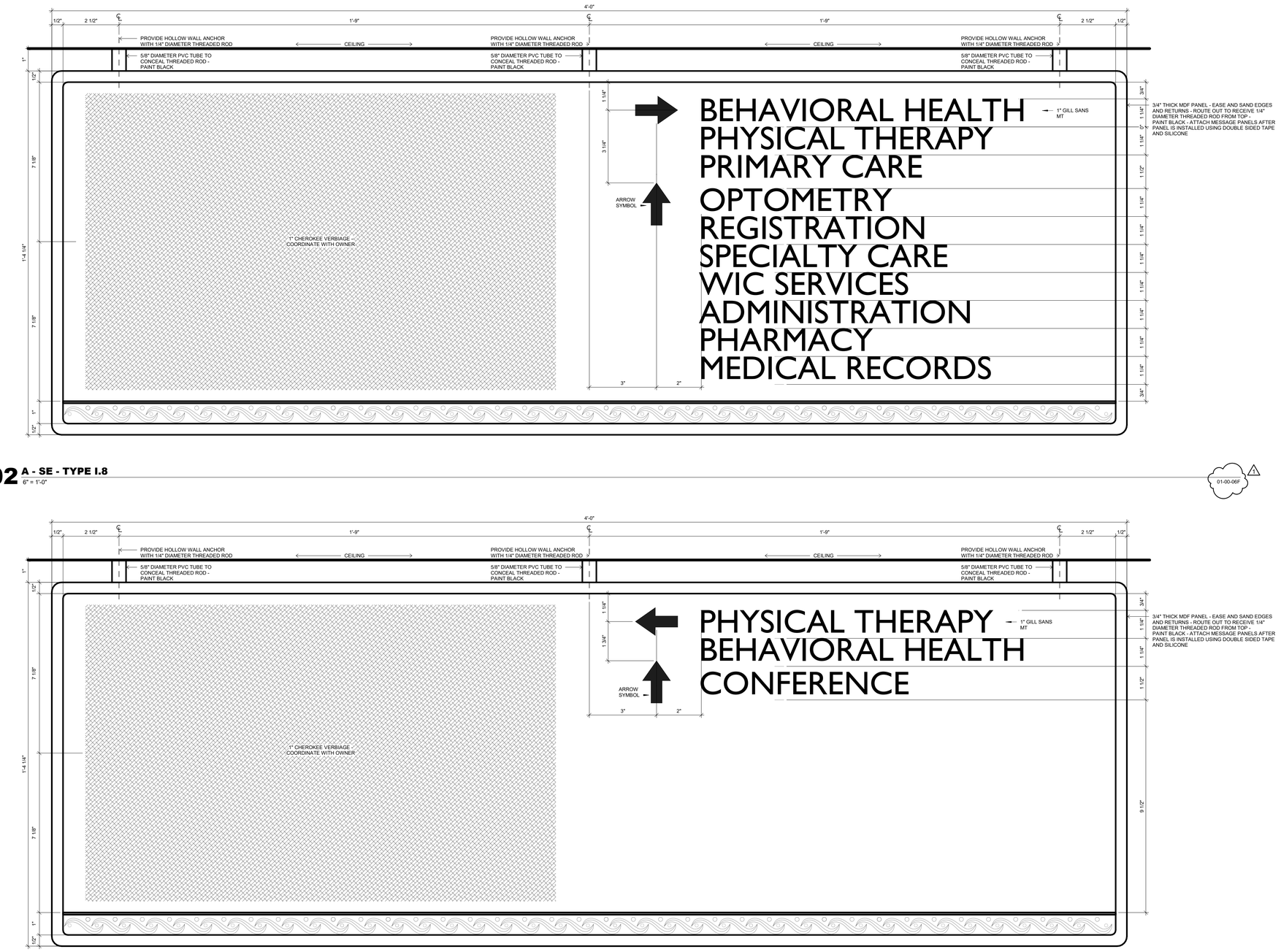
WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: A10.04
SIGNAGE ELEVATIONS




## 02 A - SE - TYPE I.8

6" = 1'-0"

01-00-06F




## 01 A - SE - TYPE I.7

6" = 1'-0"

01-00-06E

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WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

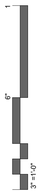
PROJECT PHASE:
BID PACKAGE 02

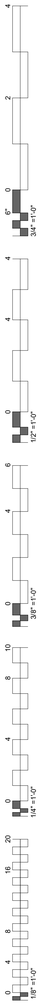
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
A10.05

SIGNAGE ELEVATIONS







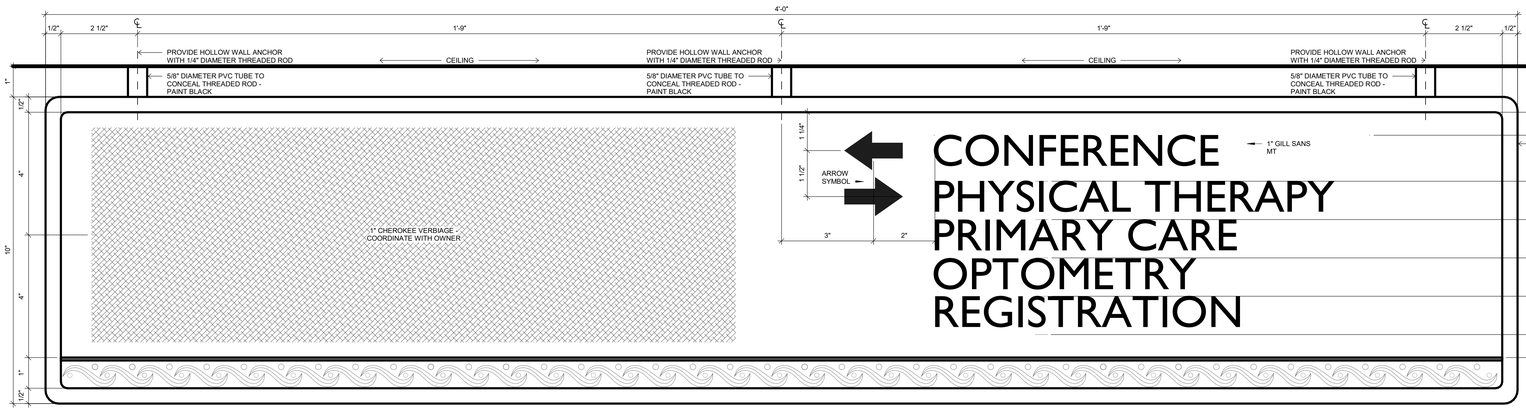






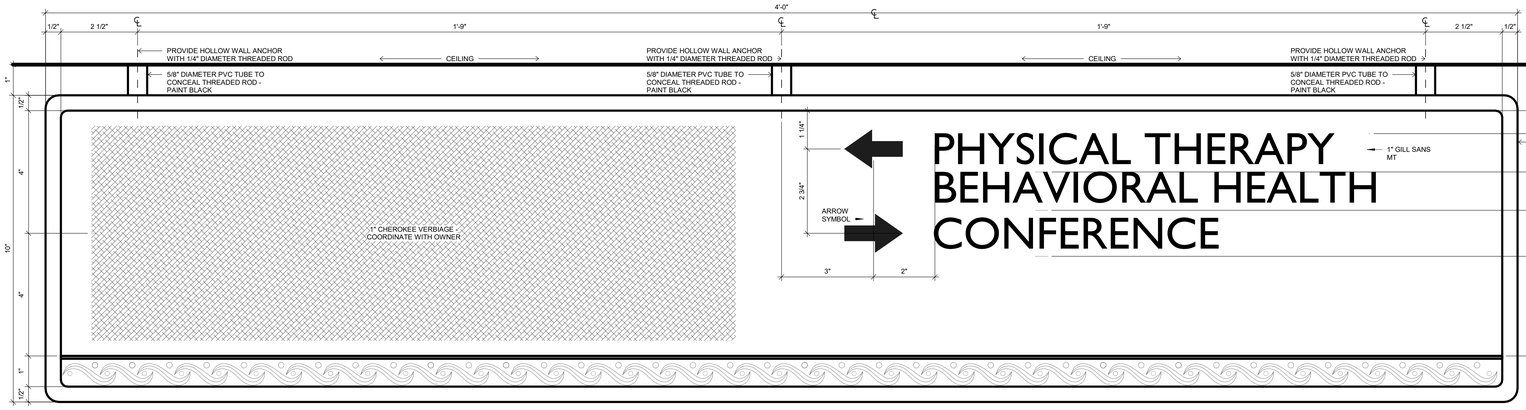





**02** **A - SE - TYPE I.10**
6" = 1'-0"

01-00-06H




**01** **A - SE - TYPE I.9**
6" = 1'-0"

01-00-06G

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# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

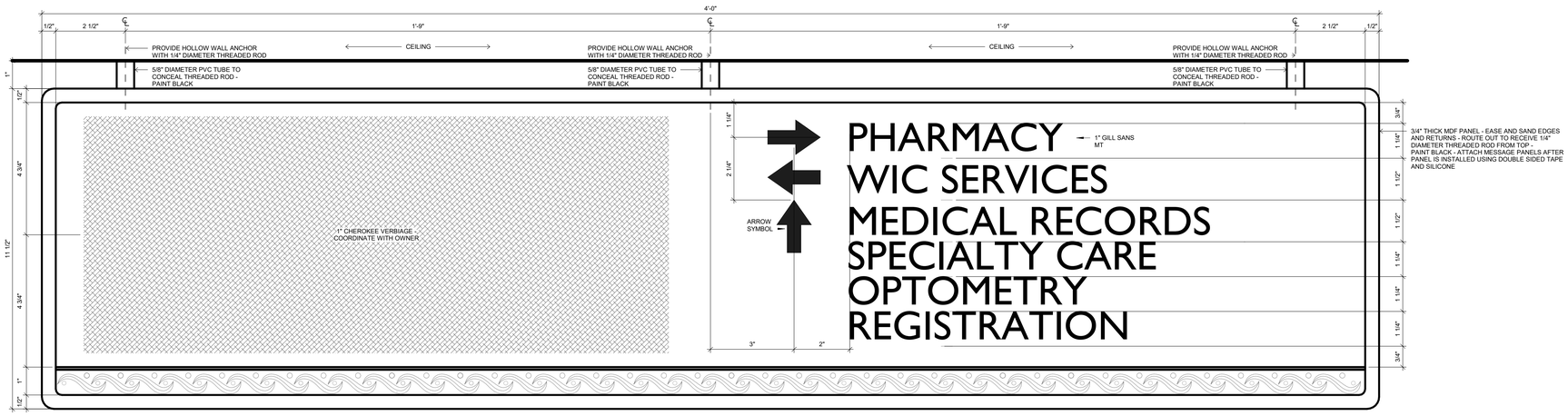
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

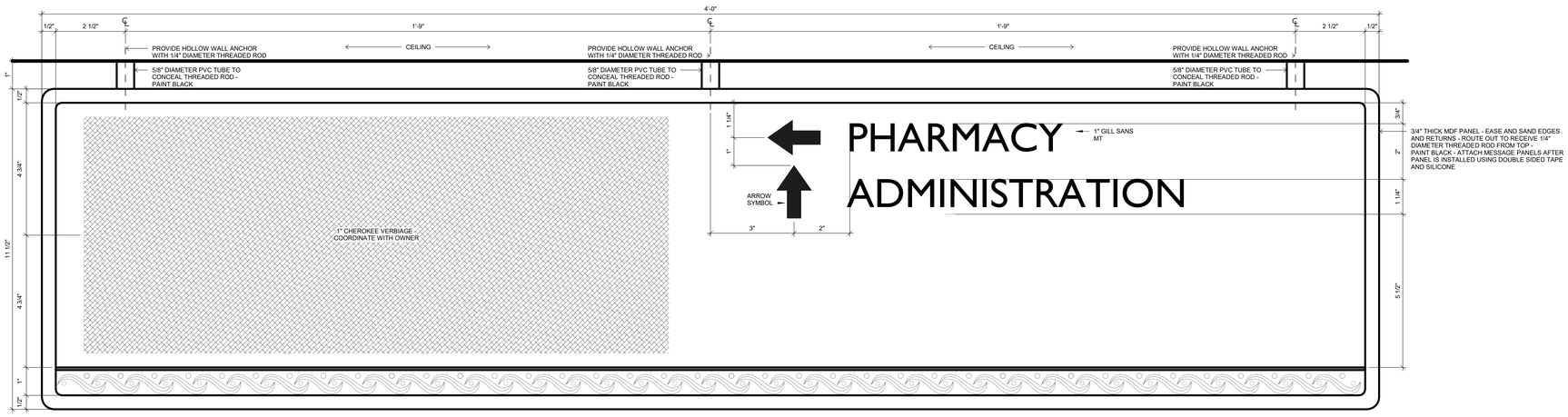
A10.06

SIGNAGE ELEVATIONS




**02** **A - SE - TYPE I.12**
6" = 1'-0"

01-00-12A




**01** **A - SE - TYPE I.11**
6" = 1'-0"

01-00-12B

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: A10.07
SIGNAGE ELEVATIONS

## GENERAL NOTES

1. ALL SIGNAGE TO BE TAMPERPROOF.
2. ALL SIGNAGE TO HAVE ENGLISH & CHEROKEE VERBIAGE, COORDINATE VERBIAGE W/ OWNER.
3. COORDINATE ALL CUSTOM SIGNAGE DIMENSIONS, COLORS, LOGOS & ARTWORK W/ OWNER & ARCHITECT. (CUSTOM ELEMENTS NOT SHOWN)
4. VERIFY QUANTITY W/ OWNER.
5. VERIFY LOCATION W/ OWNER PRIOR TO MOUNTNG SIGNAGE ON GLAZING.
6. ALL CAST METAL SIGNAGE TO BE GEMINI - FLAT FACE PROFILE LETTERS - OPTIMA SEMI-BOLD FONT. (COLOR & FONT TO MATCH EXISTING)

PLAN NORTH

TRUE NORTH

**01 ENLARGED SIGNAGE PLAN - LEVEL 01 SECTOR 01**
1/8" = 1'-0"


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06-05-20

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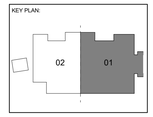
SEAL OF THE CHEROKEE NATION — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

A10.10

ENLARGED SIGNAGE PLAN - LEVEL 01 SECTOR 01

## GENERAL PLUMBING SEISMIC NOTES

| | |
|---|---|
| 1 | PROVIDE VIBRATION AND SEISMIC CONTROLS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT FOR DEVICES FOR FIRE-SUPPRESSION EQUIPMENT AND SYSTEMS. |
| 2 | PROVIDE VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT. |
| 3 | COORDINATE ALL VIBRATION ISOLATION DEVICE INSTALLATION AND SEISMIC BRACING FOR PLUMBING PIPING AND EQUIPMENT WITH OTHER SYSTEMS AND EQUIPMENT IN THE VICINITY, INCLUDING OTHER SUPPORTS AND RESTRAINTS, IF ANY. |
| 4 | TESTING AGENCY QUALIFICATIONS: AN INDEPENDENT AGENCY, WITH THE EXPERIENCE AND CAPABILITY TO CONDUCT THE TESTING INDICATED, THAT IS AN NRTL AS DEFINED BY OSHA IN 29 CFR 1910.7 AND THAT IS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. |
| 5 | COMPLY WITH SEISMIC-RESTRAINT REQUIREMENTS IN THE INTERNATIONAL BUILDING CODE |
| 6 | WELDING QUALIFICATIONS: QUALITY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE-STEEL." |
| 7 | SEISMIC-RESTRAINT DEVICES SHALL HAVE HORIZONTAL AND VERTICAL LOAD TESTING AND ANALYSIS AND SHALL BEAR ANCHORAGE PRE-APPROVAL OPA NUMBER FROM OSHPD, PRE-APPROVAL BY ICC-ES, OR PRE-APPROVAL BY ANOTHER AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, SHOWING MAXIMUM SEISMIC-RESTRAINT RATINGS. RATINGS BASED ON INDEPENDENT TESTING ARE PREFERRED TO RATINGS BASED ON CALCULATIONS. IF PRE-APPROVED RATINGS ARE UNAVAILABLE, SUBMITTALS BASED ON INDEPENDENT TESTING ARE PREFERRED. CALCULATIONS (INCLUDING COMBINING SHEAR AND TENSILE LOADS) TO SUPPORT SEISMIC-RESTRAINT DESIGNS MUST BE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER. |
| 8 | SEISMIC RESTRAINTS FOR MEP EQUIPMENT AND SYSTEMS |
| 9 | BUILDING IS CLASSIFIED AS SEISMIC DESIGN CATEGORY C. CONTRACTOR SHALL PROVIDE SEISMIC BRACING FOR PIPING, DUCTWORK AND EQUIPMENT TO MEET ALL LOCAL AND NATIONAL CODE REQUIREMENTS. |
| 10 | CONTRACTOR'S RESPONSIBILITIES INCLUDE PROVIDING ALL SUBMITTAL'S AND DETAILS WITH STRUCTURAL ENGINEER'S CERTIFICATION FOR PERMITTING. |
| 11 | SIESMIC PROTECTION FOR CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURERS'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY |

## P-WATER HEATER SCHEDULE

| TAG NUMBER | SERVICE | MFR | MODEL NUMBER | TYPE | GPM AT 70F RISE | POWER SUPPLY | NOTES |
|---|---|---|---|---|---|---|---|
| GWH-1 & 2 | DOMESTIC HOT WATER | INTELLIHOT | iN400 | TANKLESS | 11 | 120/1/60 | ALL APPLY |

NOTES:
1. EACH WH TO HAVE DUAL HEAT EXCHANGERS FOR BUILT IN REDUNDANCY.
2. EACH WH TO HAVE 7" LCD TOUCHSCREEN DISPLAY DIRECT CELL LTE CONNECTIVITY.
3. HEAT EXCHANGERS TO BE 316L S.S., 3/4" ID.
4. MASTERLESS CASCADING DESIGN.
5. WHs TO COMMUNICATE WITH EACH OTHER.
6. ASME-HLW RATED.
7. PROVIDE EACH WH WITH CONDENSATE DRAIN PIPING.
8. PROVIDE EACH WH WITH ACID NEUTRALIZER KIT.

## P-BOOSTER PUMP SCHEDULE

| TAG NUMBER | SERVICE | MFR | MODEL | TYPE | TOTAL SYSTEM US GPM | TDH FT | HP | POWER SUPPLY | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| BP-1 | DOMESTIC WATER | GRUNDFOS | BOOSTERPAQ HYDRO MPCE-E 2CHE10-3 | DUPLEX | 143 | 122 | (2) 5 | 460/3/60 | ALL APPLY |

NOTES:
1. PUMPS TO BE FURNISHED WITH ECM MOTORS HAVING INTEGRAL MOTOR VFDs.
2. PUMPS TO BE MULTI-STAGE WITH SPLIT COUPLING.
3. SUCTION & DISCHARGE HEADERS TO BE 316L S.S.
4. PUMP BASPLATE SHALL BE 304 S.S.
5. ON-BOARD PUMP CONTROLLER SHALL CASCADE PUMPS FOR MAXIMUM EFFICIENCY.
6. PUMP CURVES SHALL BE PROGRAMMED INTO CONTROLLER.
7. ENTIRE SYSTEM (PUMPS, VFDs, CONTROLLERS) SHALL BE MANUFACTURED BY A SINGLE MANUFACTURER FOR SINGLE SOURCE RESPONSIBILITY.
8. SKID MOUNTED SYSTEM SHALL INCLUDE ALL PIPE, VALVES & FITTINGS, AND OFFER SINGLE POINT CONNECTIONS.
9. FURNISH WITH EXPANSION TANK SIZE AS RECOMMENDED BY BOOSTER PUMP MANUFACTURER.

## PLUMBING PIPING INSULATION SCHEDULE

| | | INSULATION THICKNESS NOMINAL PIPE SIZE | | | | |
|---|---|---|---|---|---|---|
| DESCRIPTION | INSULATION TYPE | <1 | 1 TO <1-1/2 | 1-1/2 TO <4 | 4 TO <8 | ≥8 |
| DOMESTIC COLD WATER PIPING BELOW GRADE | PVC OR HDPE JACKET ONLY, NO INSULATION | 1 | 1 | 1.5 | 1.5 | 1.5 |
| CONDENSATE PIPING ABOVE GRADE | ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES | 0.5 | 1 | 1 | 1 | 1.5 |
| PVC WASTE VENT AND WASTE DRAIN IN AIR PLENUM SPACE | COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| WATER COOLER TRAPS, ALL EXPOSED LAVATORY AND SINK TRAPS, TAILPIECES, HOT AND COLD WATER SUPPLY LINES/ANGLE VALVES TO THESE DEVICES | EQUIVALENT TO TRUEBRO 102 E-Z PIPE COVER | 0.125 | 0.125 | 0.125 | 0.125 | 0.125 |
| DOMESTIC HOT WATER AND HOT WATER RETURN PIPING BELOW GRADE | ELASTOMERIC OR FOAM. ENCAPSULATE WITH PVC OR HDPE JACKET | 1 | 1 | 1.5 | 1.5 | 1.5 |
| DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING ABOVE GRADE | ELASTOMERIC, ADD ASTM E84 COMPLIANT JACKET IN AIR PLENUM SPACES | 1 | 1 | 1.5 | 1.5 | 1.5 |
| PVC WASTE DRAIN IN WALLS, AND WASTE VENT IN ALL AREAS ABOVE GRADE | COMPRESSED FIBERGLASS OR ELASTOMERIC WITH ASTM E84 COMPLIANT JACKET | 1" | 1" | 1.5" | 1.5" | 1.5" |

## PIPING MATERIAL SCHEDULE

| DESCRIPTION | MATERIAL |
|---|---|
| ABOVE GROUND GAS | SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTT WELD FITTINGS. PROVIDE CORROSION-RESISTANT MATERIAL ON PIPING EXPOSED TO ATMOSPHERE OR IN CONTACT WITH MATERIAL EXERTING A CORROSIVE ACTION |
| ABOVE GROUND SANITARY SEWER AND VENT | PVC SCHEDULE 40 PIPE AND FITTINGS EXCEPT IN PLENUM RETURN AREAS. IN PLENUM RETURN AREAS WRAP PVC WITH 1" FIRE WRAP. |
| FLEXIBLE GAS PIPING INSIDE BUILDING | FOR FINAL CONNECTION TO EQUIPMENT ONLY. CORRUGATED STAINLESS STEEL GAS LINE WITH POLYETHYLENE JACKET AND FITTINGS BY MFG. MUST MEET ANSI, NFPA, FACTORY MUTUAL CODE AND LISTINGS AS AN ACCEPTABLE GAS PIPING MATERIAL, ALL STATE AND LOCAL CODE APPROVALS. PROVIDE PIPING EQUAL TO TRACPIPE BY OMEGA FLEX. SIZE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. |
| FORCED MAIN PIPING | SCHEDULE 40 GALVANIZED STEEL WITH SCREWED JOINTS. |
| MEDICAL GAS PIPING | ASTM B88 TYPE L HARD COPPER WITH WROUGHT COPPER FITTINGS. MEDICAL GAS SUPPLY PIPING SHALL BE FACTORY CLEANED, OIL FREE & SEALED PER NFPA 99. JOINTS TO BE BRAZED. |
| UNDER GROUND GAS | APPROVED PLASTIC WITH COMPATIBLE FITTINGS CONFORMING WITH ASTM D 2513 AND SHALL BE INSTALLED IN ACCORDANCE WITH GAS CODE OR WITH SCH. 40 STEEL WITH MALLEABLE IRON FITTINGS OR WELDED JOINTS WITH BUTT WELD FITTINGS. MILL COAT PIPE WITH HIGH DENSITY POLYETHYLENE OVER ADHESIVE UNDERCOATING WRAP FIELD JOINTS AND FITTINGS WITH REPUBLIC "X-TRU-TAPE" OR EQUAL. PROVIDE WITH MARKER TAPE. |
| UNDERGROUND SANITARY SEWER AND VENT PIPING INSIDE BUILDING AND OUTSIDE BUILDING | PVC SCHEDULE 40 PIPE AND FITTINGS. |
| WATER DISTRIBUTION PIPE | WATER DISTRIBUTION PIPE SHALL CONFORM TO NSF 61 AND SHALL BE COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE 605.4 OF THE I.P.C |
| WATER SERVICE PIPE | WATER SERVICE PIPE SHALL CONFORM TO NSF 61 AND SHALL BE COPPER AND CONFORM TO THE STANDARDS LISTED IN TABLE 605.3 OF THE I.P.C |

## ROUGH-IN AND MOUNTING HEIGHT SCHEDULE

NOTES:
1. ALL VENT LINE SIZES SHOWN ARE MINIMUM UNLESS SHOWN LARGER ON RISER DIAGRAMS.
2. SIZES SHOWN FOR WASTE ARE FOR RISERS ONLY.
3. ALL DRAIN AND VENT LINES BELOW SLAB SHALL BE 2" OR LARGER.
4. VENT LINES SHALL RISE 6" ABOVE FLOOD LEVEL RIM BEFORE OFFSETTING HORIZONTALLY, EXCEPT FOR INTERCEPTORS LOCATED OUTDOORS.
5. SIZES SHOWN APPLY UNLESS NOTED DIFFERENTLY ON PLANS.

| FIXTURE | WASTE | VENT | COLD WATER | HOT WATER | HEIGHT OF INSTALLATION |
|---|---|---|---|---|---|
| DRINKING FOUNTAIN | 1-1/2" | 1-1/2" | 1/2" | | NON-ADA 40" TO TOP OF ORIFICE<br>ADA 36" TO TOP OF ORIFICE |
| EYEWASH STATION | | | 1/2" | 1/2" | |
| FLOOR DRAINS/SINKS | 2" | 1-1/2" | | | |
| HOSE BIBB | | | 3/4" | | 18" ABOVE GRADE OUTSIDE, 18" A.F.F. INSIDE |
| JANITOR'S SINK | 3" | 1-1/2" | 1/2" | 1/2" | |
| LAVATORIES AND SINKS, COUNTER MOUNTED | 1-1/2" | 1-1/4" | 1/2" | 1/2" | |
| LAVATORIES AND SINKS, WALL MOUNTED | 1-1/2" | 1-1/4" | 1/2" | 1/2" | NON-ADA 31" TO TOP OF RIM<br>ADA 34" TO TOP OF RIM |
| OPEN HUB DRAIN | 2" | 1-1/2" | | | PROVIDE 3" PVC REDUCER, MOUNT AT HEIGHT REQUIRED FOR INSTALL LOCATION |
| SUPPLY BOX | | | 1/2" | | 12" TO BOTTOM OF BOX |
| URINAL FLUSH VALVE WALL MOUNTED | 1-1/2" | 1-1/4" | 1" | | NON-ADA 24" TO TOP OF FLOOD LEVEL<br>ADA 17" TO TOP OF FLOOD LEVEL |
| UTILITY BOX | 2" | 1-1/2" | 1/2" | 1/2" | 36" TO BOTTOM OF BOX |
| WASHER BOX | 2" | 1-1/2" | 1/2" | 1/2" | 18" TO BOTTOM OF BOX |
| WATER CLOSET FLUSH VALVE FLOOR MOUNTED | 3" | 1-1/2" | 1-1/4" | | |
| WATER CLOSET FLUSH VALVE WALL MOUNTED | 4" | 1-1/2" | 1-1/4" | | NON-ADA 15" TO TOP OF BOWL<br>ADA 17" TO TOP OF BOWL |

## GAS LOAD CALCULATION

GAS LOAD CALCULATION NOTES:
GAS LINES HAVE BEEN SIZED AS PER TABLE 402.4(2) OF THE 2006 INTERNATIONAL FUEL GAS CODE FOR PRESSURES OF LESS THAN 2PSI AND A PRESSURE DROP OF 0.5" WATER COLUMN AND 0.6 SPECIFIC GRAVITY. USING A DISTANCE OF 125 FEET.

| | |
|---|---|
| LONGEST RUN | 94 (FEET) X 1.25 (FITTING LOSS) =<br>117.5 FEET TOTAL DEVELOPED LENGTH |
| GAS TYPE: | < 0.5 PSI NATURAL |

| EQUIPMENT | MBH INPUT (EACH) | QTY | TOTAL MBH INPUT |
|---|---|---|---|
| BOILER | 1000 | 2 | 2000 |
| GWH-1 | 399.9 | 2 | 799.8 |
| GUH-1&2 | 30 | 2 | 60 |
| Grand total | | | 2859.8 |

## PLUMBING EQUIPMENT SCHEDULE

| FIXTURE TAG | DESCRIPTION | MANUFACTURER | TRIM | ELECTRICAL REQUIREMENTS |
|---|---|---|---|---|
| BV-1 | BALL VALVE | APOLLO INTERNATIONAL 94ALF-A | LEAD FREE BALL VALVE, FULL PORT, BLOWOUT-PROOF, PRESSURE RETAINING, ADJUSTABLE STEM PACKING NUT | |
| CBV-1 | CALIBRATED BALANCE VALVE | BELL&GOSSETT CIRCUIT SETTER PLUS | LEAD FREE, CIRCUIT SETTER PLUS, CALIBRATED BALANCE AND POSITIVE SHUT-OFF VALVE | |
| COTG-1 | CLEANOUT TO GRADE, SPEEDI-SET OUTLET | J. R. SMITH 4237 | UNFINISHED FLOOR CLEANOUT WITH ADJUSTABLE ROUND CAST IRON TRACTOR COVER TOP, DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES | |
| CP-1 | CIRCULATING PUMP | ARMSTRONG ASTRO 280 SS | THREE SPEED, BRONZE BODY WITH BRASS IMPELLER, WITH AQUASTAT AND AUTOMATIC TIMER KIT, 5 GPM @ 25 HEAD-FEET | 230V, 1PH, 218 WATTS |
| CP-2 | CIRCULATING PUMP | ARMSTRONG ASTRO 286 SS | THREE SPEED, BRONZE BODY WITH BRASS IMPELLER, WITH AQUASTAT AND AUTOMATIC TIMER KIT, 17 GPM @ 25 HEAD-FEET | 230V, 1PH, 370 WATTS |
| DI-1 | DEIONIZED WATER | PROVIDED BY OTHER INSTALLED BY CONTRACTOR | CONTRACTOR SHALL COORDINATE WITH BENCO PLANS AND REPRESENTATIVE FOR ALL REQUIREMENTS AND LOCATIONS OF DEIONIZED WATER | |
| ET-1 | EXPANSION TANK | WATTS PLT-20 | BRASS CONNECTION, WELDED STEEL CONSTRUCTION, POLYPROPYLENE LINER, BUTYL DIAPHRAGM, GROOVED DIAPHRAGM HOOP RING, WELDED AIR CHARGE FITTING, 14 GAL., 5.6 TANK ACCEPTANCE | |
| EWC-1 | ELECTRIC WATER COOLER, SPLIT LEVEL, WALL MOUNTED, STANDARD AND HANDICAPPED, NO LEAD DESIGN, ONE PIECE, STAINLESS STEEL BASIN. FLEXIBLE SAFETY BUBBLER | ELKAY ERPBM28K | ADA APPROVED, W/ TOUCH PADS ON FRONT, FLEXIBLE SAFETY BUBBLER, P-TRAP, WATER VALVE | 115V, 1PH, 380W |
| EWS-1 | EYE WASH STATION 2-HEADS | STINGRAY S2230FLTSS/NA | WALL MOUNTED STAINLESS STEEL BOWL WITH TWO GS-PLUS SPRAY HEADS, 1/2" IPS CHROME PLATED BRASS STAY-OPEN BALL VALVE, TMV-3 | |
| EWS-2 | EYE WASH STATION 2-HEADS DECK MOUNTED | STINGRAY S2240FLT | DECK MOUNTED EMERGENCY EYEWASH, SWING-DOWN OPERATED, CORROSION RESISTANT MATERIALS, CERAMIC STAY OPEN VALVE, LEAD-FREE BRASS BODY, TMV-3 | |
| FD-1 | FLOOR DRAIN-SQUARE | MIFAB F1000-S | CAST IRON BODY, ANCHOR FLANGE, SECURED ROUND ADJUSTABLE STRAINER HEAD WITH HOLE GRATE, LOOSE GRATE AND SEDIMENT BUCKETS, MIFAB TRAP GUARD, REFER TO PLANS FOR SIZES | |
| FPHB-1 | FROST PROOF HOSE BIBB - BOX | J.R. SMITH 5509QT | AUTOMATIC DRAINING, ANTI-SIPHON FREEZELESS, PROVIDE SHUTOFF VALVE FOR SUPPLY LINE IN AN ACCESSIBLE LOCATION | |
| FS-1 | FLOOR SINK 12-1/2" CAST IRON RECEPTOR, 8" DEEP | J. R. SMITH 3150 | CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, LOOSE GRATE, ALUMINUM DOME BOTTOM STRAINER, GRATE, MIFAB TRAP GUARD | |
| GI-1 | GREASE INTERCEPTOR | SCHIER GB-#75 | POLYETHYLENE GREASE INTERCEPTOR WITH HIGHWAY TRAFFIC LOAD RATED, BOLTED, GAS/WATER TIGHT COMPOSITE COVER, CONTRACTOR SHALL HAVE LOCAL SANITARIAN AND ADMINISTRATIVE AUTHORITIES APPROVAL PRIOR TO ORDERING AND INSTALLATION | |
| HL-1 | HANDICAPPED LAVATORY, COUNTER MOUNT, VITREOUS CHINA - OVAL | AMERICAN STANDARD 0476.028 | AMERICAN STANDARD RELIANT 3 - 7385.004 SINGLE LEVER FAUCET, 0.5 GPM AERATOR, 4" CENTER SET TRIM PLATED, TMV-1 BELOW DECK, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, THREE HOLES ON DECK 4" CENTERS | |
| HL-2 | HANDICAPPED LAVATORY, WALL MOUNT, VITREOUS CHINA | AMERICAN STANDARD DECLYN 0321.026 | AMERICAN STANDARD RELIANT 3 - 7385.004 SINGLE LEVER FAUCET, 0.5 GPM AERATOR, 4" CENTER SET TRIM PLATED, TMV-1 BELOW DECK, ZURN Z8743-PC GRID STRAINER, ZURN Z8700 SERIES P-TRAP, ZURN Z8800 SERIES STOP WITH FLEXIBLE SUPPLIES AND TURN KEY, ZURN Z8946-1-NT ADA TRAP, STOP AND SUPPLY PROTECTOR PVC TYPE INSULATION AROUND "P" TRAP & IPS CONNECTIONS, CONCEALED ARM CARRIER SYSTEM J.R. SMITH 0700, THREE HOLES ON DECK 4" CENTERS | |
| HSH-1 | HANDICAPPED SHOWER, 36"x 36" | AQUA BATH C4136BF-FUS 2" | STAINLESS STEEL DRAIN BODY STRAINER, SEAT, GRAB BARS, DELTA T13H332-25 SHOWER FAUCET SYSTEM | |
| HWC-1 | HANDICAPPED WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, ELONGATED RIM, 12" ROUGH-IN, SIPHON JET BOWL, 1.28 GPF | AMERICAN STANDARD MADERA 3461.001 | BEMIS 1955CT OPEN FRONT SEAT, SLOAN ECOS 8111-1.6/1.1 HARDWIRED SENSOR FLUSH VALVE, EL-451 TRANSFORMER, Z5972-COMB CLOSET BOLT/WAX RING KIT | 120V, 25W |
| HWC-2 | HANDICAPPED WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL MOUNTED, ELONGATED RIM, 12" ROUGH-IN, SIPHON JET BOWL, 1.28 GPF | ZURN Z5615 HET SERIES | BEMIS 1955CT OPEN FRONT SEAT, SLOAN ECOS 8111-1.6/1.1 HARDWIRED SENSOR FLUSH VALVE, EL-451 TRANSFORMER, Z5972-COMB CLOSET BOLT/WAX RING KIT, J.R. SMITH 0210-M54-XK 1000# CARRIER | 120V, 25W |
| JS-1 | JANITOR'S SINK, FLOOR MOUNTED 24"x 24", ONE PIECE MOLDED CONSTRUCTION OF NATURAL CRUSHED STONE AND POLYESTER RESIN | FIAT FLOOR SINK MSB 2424 | CHICAGO FAUCET 897-CP WALL MOUNTED 8" BODY W/ VACUUM BREAKER, HOSE BRACKET, MOP HANGER, BUMPER GUARDS, WALL GUARDS 2 PANELS & 1 BRACKET, SUPPLIED W/ CAST BRASS DRAIN, PROVIDE CHECK VALVES ON HOT AND COLD WATER LINES IN AN ACCESSIBLE LOCATION | |
| JS-2 | CLINIC SERVICE SINK, WALL MOUNTED | AMERICAN STANDARD 9512.999.020 | AMERICAN STANDARD 6047.117 MANUAL FLUSH VALVE TOP SPUD, AMERICAN STANDARD 7880.191 BEDPAN CLEANSER, AMERICAN STANDARD 7832504.075 RIM GUARD, CARRIER | |
| OD-1 | OVERFLOW DRAIN | J.R. SMITH 1072 | ADJUSTABLE, DUCO CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, POLYETHYLENE DOME, WATER DAM, SUMP PAN | |
| OHD-1 | OPEN HUB DRAIN | | 2" PVC P-TRAP WITH A 3" REDUCER, MIFAB TRAP GUARD | |
| PT-1 | PLASTER TRAP | TRAP-EZE BUFFALO DENTAL 62100 | TRAP-EXE DIPOSABLE PLASTER TRAP KIT 3.5 GALLON | |
| RD-1 | ROOF DRAINS | J.R. SMITH 1015 | ADJUSTABLE EXTENSION, DUCO CAST IRON BODY, FLASHING CLAMP, GRAVEL STOP, POLYETHYLENE DOME, AND SUMP PAN | |
| RDOD-1 | ROOF DRAIN/OVERFLOW COMBINATION | ZURN Z164 | 12" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE | |
| RH-1 | ROOF HYDRANT | WOODFORD SRH-MS | FREEZELESS ROOF HYDRANT, BACKFLOW PROTECTED WITH DOUBLE CHECK BACKFLOW PREVENTER, BUILT IN VENT, NO DRAIN REQUIRED | |
| RPZ-1 | REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH WYE STRAINER, FOR DOMESTIC WATER, LEAD FREE | WATTS 375AST | PROVIDE SAME SIZE AS WATER LINE FROM METER, WATTS BALL VALVES AND "Y" STRAINER, SHALL MEET APPROVAL BY FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA | |
| RPZ-2 | REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTER, FOR IRRIGATION WATER | WATTS LF009M2 QT | PROVIDE SAME SIZE AS WATER LINE FROM METER, WATTS BALL VALVES AND "Y" STRAINER, SHALL MEET APPROVAL BY FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH AT THE UNIVERSITY OF SOUTHERN CALIFORNIA | |
| S-1 | SINK SINGLE COMPARTMENT, OVERALL 19" x 18" x 7-5/8" OFF CENTER REAR DRAIN | ELKAY LR19181 ADA | ELKAY MODEL LK800GN08T4 ELECTRONIC SENSOR BATTERY POWERED CONCEALED DECK MOUNT 13" HIGH SPOUT, 5-5/8" REACH, AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK, 8" CENTERS | |
| S-2 | SINK- COMMERCIAL SINGLE COMPARTMENT, WALL MOUNT KITCHEN | ADVANCE TABCO 7-PS-55 | EYEWASH FAUCET INCLUDED, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE TWO FAUCET HOLES ON DECK | |
| S-3 | SINK -COMMERCIAL COUNTER MOUNT THREE COMPARTMENT KITCHEN | ADVANCE TABCO DI-3-1612 | (2) ADVANCE TABCO K-53 FAUCET, 12" REACH, 3-1/2" OPENING DRAIN. ZURN Z89600 TWIST DRAIN, McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE TWO FAUCET HOLES ON DECK | |
| S-4 | SINK SINGLE COMPARTMENT,DENTAL | PROVIDED BY OTHER INSTALLED BY CONTRACTOR | FAUCET PROVIDED BY OTHER AND INSTALLED BY CONTRACTOR. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE | |
| S-5 | SINK SINGLE COMPARTMENT, OVERALL 25"x 21"x 8", OFF CENTER REAR DRAIN | ELKAY LR2521 | ELKAY MODEL LK500GN08T4 SINGLE POST MOUNT, CIRCULAR BASE, 11" HIGH SWING SPOUT, 9" REACH, 4" WRIST BLADE HANDLES, 0.5GPM AERATOR, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE ONE FAUCET HOLE ON DECK | |
| S-6 | SINK SINGLE COMPARTMENT | PROVIDED BY OTHER AND INSTALLED BY CONTRACTOR | FACUET PROVIDED BY OTHER AND INSTALLED BY CONTRACTOR. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE | |
| SB-1 | SUPPLY BOX | GUY GRAY BIM-875 | (1) 1/2" SUPPLY, PROVIDE WHA-1 (WATER HAMMER ARRESTOR) | |
| SCO-1 | STACK CLEANOUT | J. R. SMITH 4510 | DUCO CAST IRON CLEANOUT TEE, BRONZE PLUG, REMOVABLE STAINLESS STEEL COVER. REFER TO PLANS FOR SIZE, PROVIDE ROUND OR SQUARE FRAME AND COVER AS REQUIRED, REFER TO ARCHITECT | |
| SP-1 | SUMP PUMP | WEIL 1412-OSS | HEAVY DUTY PUMP, CONTROL AND ALARM SYSTEM. SUBMERSIBLE TYPE PUMP, CAST IRON CASE, CAST IRON IMPELLER, 304 STAINLESS STEEL STRAINER AND HARDWARE, AIR-FILLED HERMETICALLY SEALED SHAFT, 15 FOOT POWER CORD, HARD WIRED, 1-1/2" OUTLET, AND CAPABLE OF 50 GPM AT 14 FEET HEAD. PROVIDE WITH ZOELLER # 30-0030 NON-CLOG, FLAPPER TYPE, CHECK VALVE. PROVIDE WITH 3 HARD WIRED WEIL #8230 FLOAT SWITCHES AND WEIL #8109-L SIMPLEX CONTROL PANEL, OIL SMART ALARM AND SWITCH | 115V, 60HZ, 1PH, 1/2 HP, 1750 RPM - ALARM/SWITCH 10 FT CORD AND PLUG-115V |
| SV-1 | SINK SINGLE COMPARTMENT, BEHAVIORAL SAFETY, LIGATURE FREE | ELKAY LRAD1919 | BE SAFE PRO #SF380 LIGATURE RESISTANT METERING FAUCET, A/C CONVERSION KIT FOR #SP390, LEAD FREE MINI THERMOSTATIC MIXING VALVE #SF372, 3-1/2" OPENING DRAIN. McGUIRE 151M HEAVY DUTY BRASS BASKET & STRAINER, 1 1/2", CHROME PLATED TAILPIECE. McGUIRE 8912 1 1/2" x 1 1/2" HEAVY DUTY CHROME PLATED CAST BRASS P-TRAP W/ CLEANOUT PLUG, McGUIRE 170LK CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE & LOOSE KEYS, FLEXIBLE CHROME PLATED COPPER RISERS, McGUIRE 111C SERIES 1 1/2" END OUTLET CONTINUOUS WASTE, PROVIDE THREE FAUCET HOLES ON DECK, 8" CENTERS | 120V, 1PH, 60HZ, 0.3A |
| TMV-1 | THERMOSTATIC MIXING VALVE - MAIN 120° LINE | BRADLEY S59-3045 | LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE, TEMPERATURE CONTROL SET AT 110° | |
| TMV-2 | THERMOSTATIC MIXING VALVE - POINT OF USE | POWERS E480-10 | LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE, TEMPERATURE CONTROL SET AT 110° | |
| TMV-3 | THERMOSTATIC MIXING VALVE - EMERGENCY | STINGRAY SV107 | LEAD FREE, INTEGRAL CHECK VALVE AND STRAINER, PROVIDE, TEMPERATURE CONTROL SET AT 85°, VALVE TO BE LOCATED IN A VISIBALE AND ACCESSIBLE LOCATION AND WITHIN 4 TO 10 FEET OF FIXTURE | |
| TWCO-1 | TWO WAY CLEANOUT, SPEEDI-SET OUTLET | J. R. SMITH 4237 | UNFINISHED FLOOR DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURED CAST IRON TOP, TAPERED THREAD BRONZE PLUG, REFER TO PLANS FOR SIZES | |
| UB-1 | UTILITY BOX, WASTE, AND SUPPLY | OATLEY QUADTRO | (2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR) | |
| UR-1 | URINAL, WALL MOUNT, VITREOUS CHINA | AMERICAN STANDARD WASHBROOK 6590.001 | INTEGRAL ELONGATED FLUSHING RIM, INTEGRAL TRAP, 2" FEMALE FLANGED OUTLET CONNECTION, J.R. SMITH 0637 URINAL SUPPORT, FLUSH VALVE SLOAN 186-0.5 HIGH EFFICIENCY | |
| WB-1 | WASHER BOX, WASTE AND SUPPLY | OATLEY QUADTRO | (2) 1/2" SUPPLY VALVES, 2" DRAIN CONNECTION, 1/4" TURN VALVE, PROVIDE WHA-1 (WATER HAMMER ARRESTOR), INSTALL 18" AFF, COORDINATE WITH DISHWASHER EQUIPMENT SUPPLIER | |
| WC-2 | WATER CLOSET, VITREOUS CHINA, FLUSH VALVE, WALL MOUNTED, ELONGATED RIM, 1.28 GPF | ZURN Z5615 HET SERIES | BEMIS 1955CT OPEN FRONT SEAT, SLOAN ECOS 8111-1.6/1.1 HARDWIRED SENSOR FLUSH VALVE, EL-451 TRANSFORMER, Z5972-COMB CLOSET BOLT/WAX RING KIT, J.R. SMITH 0210-M54-XK 1000# CARRIER | 120V, 24W |
| WCO-1 | WALL CLEANOUT | J. R. SMITH 4510 | DUCO CAST IRON CLEANOUT TEE, BRONZE PLUG, REMOVABLE STAINLESS STEEL COVER. REFER TO PLANS FOR SIZE, PROVIDE ROUND OR SQUARE FRAME AND COVER AS REQUIRED, REFER TO ARCHITECT | |
| WHA-1 | WATER HAMMER ARRESTOR | SIOUX CHIEF 650&660 HYDRARESTER | VACURESTER VACUUM BREAKER ARRESTER, TYPE L COPPER CONSTRUCTION, IF AN ACCESS DOOR IS NEEDED CONTACT THE ARCHITECT | |
| YH-1 | YARD HYDRANT | WOODFORD MODEL Y2 | BACKFLOW PROTECTED, AUTOMATIC DRAINING, FREEZELESS YARD HYDRANT | |

3

## PLUMBING PIPE LEGEND

| DESCRIPTION | TAG | LINETYPE |
|---|---|---|
| COLD WATER | CW | |
| FIRE | F | |
| FORCED MAIN | FM | |
| GAS | G | |
| GREASE | GR | |
| HOT WATER | HW | |
| HOT WATER RETURN | HWR | |
| MEDIUM PRESSURE GAS | MPG | |
| SANITARY SEWER | SS | |
| VENT | V | |
| MEDICAL AIR | MA | |
| MEDICAL NITROUS | NO2 | |
| MEDICAL OXYGEN | O2 | |
| MEDICAL VACUUM | VAC | |

## PLUMBING SYMBOL LEGEND

| | | | |
|---|---|---|---|
| D.F.U. | DRAIN FIXTURE UNITS | | FROST PROOF HOSE BIBB (FPHB-1) |
| GPM | GALLONS PER MINUTE | FD-1 | FLOOR DRAIN |
| F.L. | FLOW LINE INVERT | SWD-1 | SAFE WASTE DRAIN |
| M | WATER/GAS METER | | FLOOR SINK |
| R | REGULATOR | WCO-1/ SCO-1 | WALL CLEAN OUT/ STACK CLEAN OUT |
| | PRESSURE REDUCING VALVE | COTG-1/ TWCO-1 | CLEAN OUT TO GRADE/ TWO-WAY CLEAN OUT |
| | BALL VALVE | HOR. OR VERT. | BACKFLOW PREVENTER (RPZ-1) |
| | MIXING VALVE | UB-1/ SB-1 | UTILITY BOX/ SUPPLY BOX |

## GENERAL PLUMBING NOTES

| | |
|---|---|
| 1 | THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE REGULATIONS AND LOCAL PLUMBING INSPECTOR. |
| 2 | THE PIPING INDICATED ON THESE PLANS ARE DIAGRAMMATICAL. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, REROUTING, TEES, ELBOWS, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION. |
| 3 | THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAP-ON FEES, ETC. |
| 4 | THE CONTRACTOR SHALL COORDINATE ANY PLUMBING OR PIPING SYSTEM SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE. |
| 5 | ALL DOMESTIC WATER, NATURAL GAS, MEDICAL AIR, NITROUS OXIDE AND OXYGEN PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, AND WITHIN WALLS UNLESS OTHERWISE NOTED. WATER HAMMER ARRESTORS SHALL BE INSTALLED AT DISHWASHERS, WASHING MACHINES, SUPPLY BOXES, AND QUICK CLOSING VALVES NOT LISTED. INSTALL WHA-1 AS CLOSE TO QUICK CLOSING VALVE AS POSSIBLE PER MANUFACTURES RECOMMENDATIONS. ISOLATION VALVES SHALL BE INSTALLED ON ALL SUPPLY FIXTURE GROUPS AND HOT WATER BALANCING VALVES. |
| 6 | FROST PROOF HOSE BIBBS AND SUPPLY PIPING SHALL BE INSTALLED ON THE INSIDE OF THE INSULATION. SEAL SHEATHING PENETRATION TO PREVENT AIR FROM REACHING THE VALVE. |
| 7 | ALL SANITARY, GREASE WASTE AND VACUUM PIPING SHOWN IS BELOW SLAB, BELOW FLOOR, OR WITHIN WALLS UNLESS OTHERWISE NOTED. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING, EXPOSED OVERHEAD, OR WITHIN WALLS UNLESS OTHERWISE NOTED. |
| 8 | FLOOR DRAINS ARE TO BE THE SAME SIZE AS THE DRAIN LINE IT CONNECTS UNLESS NOTED OTHERWISE. IF SIZE IS NOT INDICATED ON DRAWINGS REFER TO PLUMBING ROUGH-IN SCHEDULE FOR PROPER SIZE. |
| 9 | FLUSH CONTROLS FOR HANDICAPPED WATER CLOSETS ARE TO BE MOUNTED TO THE OPEN SIDE OF THE TOILET AREAS. |
| 10 | CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS. |
| 11 | THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDER SLAB PIPING WITH EXISTING STRUCTURAL FOUNDATIONS. UNDERGROUND UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO ANY WORK BEING PERFORMED. CONTRACTOR SHALL REPAIR OR REPLACE ALL PIPING NOT IN PROPER WORKING ORDER OR DAMAGED DURING INSTALLATION OF THE NEW UNDERGROUND PIPING. |
| 12 | ALL PIPING PENETRATIONS THROUGH NEW, EXISTING WALL, OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR. |
| 13 | THE PLUMBING SYSTEM SHALL BE TESTED AS REQUIRED BY LOCAL CODE OR BY THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTOR. |
| 14 | THE ENTIRE DOMESTIC WATER SYSTEM (EXISTING/NEW) SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS. |
| 15 | DOMESTIC WATER AND SEWER LOCATED OUTSIDE OF FOOTING SHALL MAINTAIN A 10' SEPARATION UNLESS WRITTEN PERMISSION IS OBTAINED FROM LOCAL AUTHORITIES AND/OR PROPER CONTAMINATION PROVISIONS PER LOCAL CODE HAVE BEEN MET. |
| 16 | FINISHED FLOOR ELEVATION (F.F.E.) SHALL BE 0.00' FOR CALCULATION PURPOSES ONLY, UNLESS NOTED OTHERWISE. |
| 17 | THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS. NON-LEAD TYPE ONLY. |
| 18 | ALL VENT THRU ROOF (VTR'S) PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES. ALL VTR'S SHALL BE A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKE OPENINGS. |
| 19 | ANY PVC PIPE PENETRATING A FIRE RATED ASSEMBLY SHALL BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY. ANY SPACE BETWEEN THE SLEEVE AND THE FIRE RATED ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900 OR FLAME STOPPER 5000. |
| 20 | CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS FOR DISHWASHER, WASHING MACHINE, REFRIGERATOR, ETC. |
| 21 | PROVIDE SHUT-OFF VALVES FOR PROPER OPERATION AND SERVICING OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE BASE OF EACH RISER. COORDINATE WITH ARCHITECTURAL PLAN FOR ACCESS DOOR LOCATIONS. |
| 22 | VALVES SHALL BE LOCATED 6" ABOVE ACCESSIBLE CEILING WHEN AT ALL POSSIBLE AND SHALL BE CLEAR OF ANY OBSTRUCTIONS FROM OTHER TRADES. MAINTENANCE SHALL BE ABLE TO ACCESS VALVES WITH STANDARD LADDER. SHOULD LOCATION NOT BE APPLICABLE CONTRACTOR SHALL PROVIDE A CONTROL CHAIN AND/OR ARM. |
| 23 | TEMPERED WATER, NOT EXCEEDING A MAXIMUM OF 110° F, SHALL BE DELIVERED FROM PUBLIC HANDWASHING FACILITIES THROUGH AN APPROVED WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070. |
| 24 | PLUMBING CONTRACTOR SHALL PROVIDE AS AN ADD ALTERNATE BID: HAVE A FLOW TEST DONE FOR THE DOMESTIC WATER TO DETERMINE IF A BOOSTER PUMP WILL BE REQUIRED. IF ONE IS REQUIRED, CONTRACTOR SHALL HAVE ONE SIZED AND PROVIDE IT FOR THE PROJECT. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. |
| 25 | REGULATORS INSTALLED ON THE INTERIOR OF THE BUILDING SHALL BE VENTED TO THE EXTERIOR PER LOCAL AND STATE CODES. |
| 26 | IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERTS AND LOCATIONS OF THE BUILDING UTILITIES ARE COMPATABLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK. |
| 27 | CONTRACTOR SHALL PROVIDE A PRESSURE REDUCING VALVE (PRV-1) SHOULD THE WATER PRESSURE EXCEED 75 PSI. CONTRACTOR SHALL CONFIRM WITH ON SITE CONDITIONS AND LOCAL UTILITY. |
| 28 | PROVIDE BALANCING VALVES FOR PROPER OPERATION AND PRESSURE OF DOMESTIC WATER DISTRIBUTION SYSTEM. LOCATION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: AT EACH FIXTURE GROUP, AT EACH BRANCH TAKE-OFF FROM MAINS AND AT THE EACH RISER. INSTALL PER MANUFACTURE'S REQUIREMENTS. |
| 29 | CONTRACTOR SHALL PAINT PIPING ABOVE OPEN CEILING AREAS TO MATCH ARCHITECT. COORDINATE COLORS WITH ARCHITECTURAL PLANS. |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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 3 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
P1.00

PLUMBING LGD, NOTES & SCHS.

OVERALL LEVEL 01 DRAIN PLAN

1/8" = 1'-0"


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PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER
Shane Wells
28910
OKLAHOMA
CERTIFIED
06/05/2020

CONSULTANT LOGO:

HP ENGINEERING

PROJECT NO. 18068R
100 % COMPLETE


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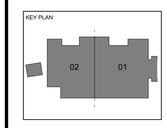
CLIENT:

SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: P2.00

OVERALL LEVEL 01 DRAIN PLAN

## KEYNOTES

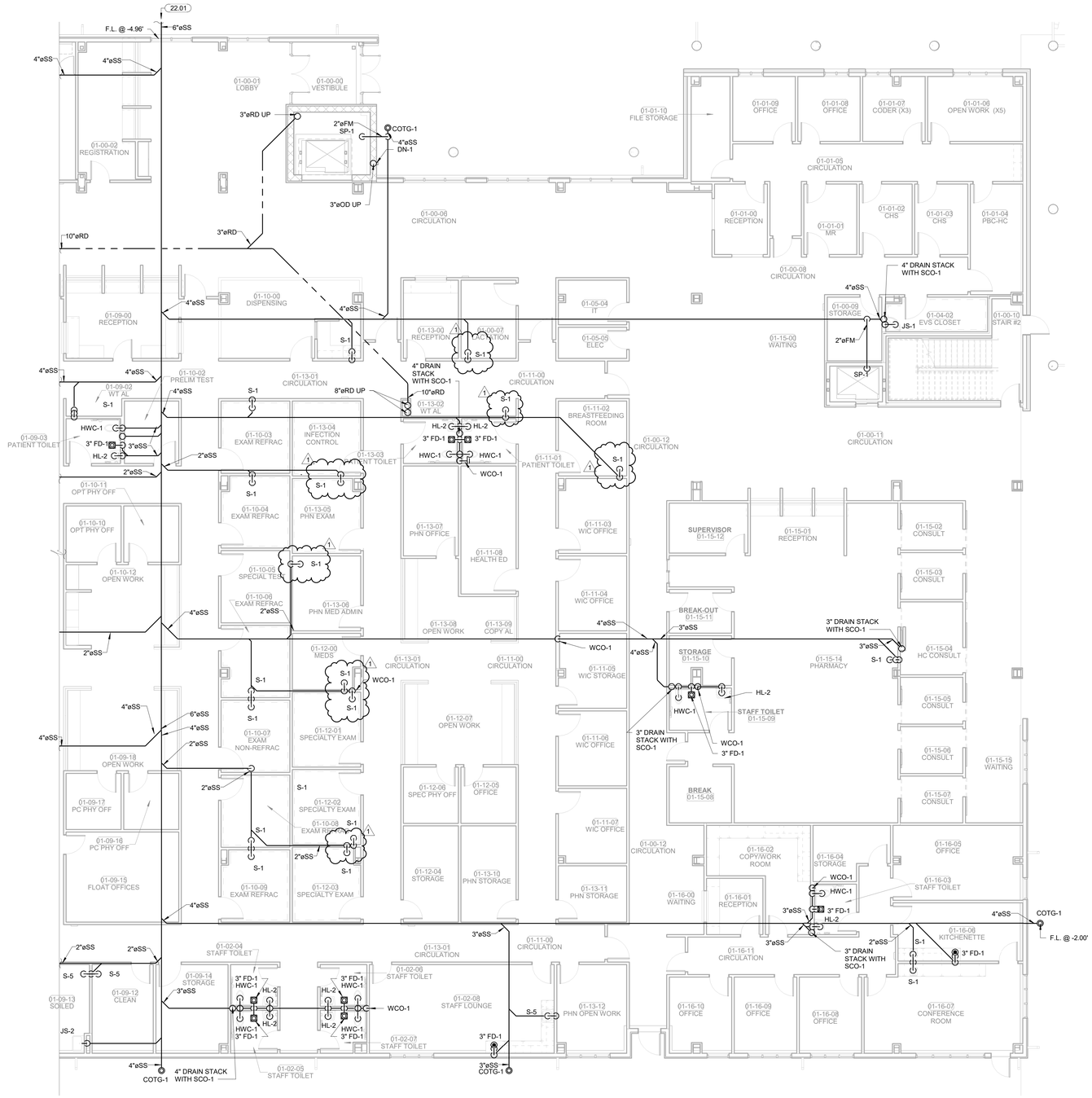
| | |
|---|---|
| 22.01 | NEW 6" BUILDING DRAIN LINE. REFER TO CIVIL PLANS FOR CONTINUATION. 486 D.F.U. |

SEISMIC RESTRAINTS FOR MEP EQUIPMENT AND SYSTEMS

BUILDING IS CLASSIFIED AS SEISMIC DESIGN CATEGORY C. CONTRACTOR SHALL PROVIDE SEISMIC BRACING FOR PIPING, DUCTWORK AND EQUIPMENT TO MEET ALL LOCAL AND NATIONAL CODE REQUIREMENTS.

CONTRACTOR'S RESPONSIBILITIES INCLUDE PROVIDING ALL SUBMITTAL'S AND DETAILS WITH STRUCTURAL ENGINEER'S CERTIFICATION FOR PERMITTING.

NOTE: IT IS THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE SITE CONTRACTOR TO CONFIRM THAT THE INVERT AND LOCATION OF THE SANITARY SERVICE IS COMPATIBLE WITH THE SITE UTILITIES PRIOR TO BEGINNING WORK.




FLOOR PLAN LEVEL 01 SECTOR 01 - DRAIN PLAN

1/8" = 1'-0"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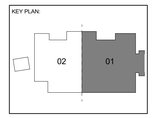
STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

P2.11

DRAIN PLAN LEVEL 01 SECTOR 01

## KEYNOTES

| | |
|---|---|
| 22.01 | NEW 6" BUILDING DRAIN LINE. REFER TO CIVIL PLANS FOR CONTINUATION. -686 D.F.U. |
| 22.02 | NEW 4" DRAIN LINE. REFER TO CIVIL PLANS FOR CONTINUATION. |
| 22.09 | 10" STORM DRAIN LINE. REFER TO CIVIL PLANS FOR CONTINUATION. |
| 22.39 | PROVIDE OPEN HUB DRAIN WITH TRAP GUARD UNDER COUNTER FOR DRAIN FROM COUNTER MOUNTED ICE MACHINE. HUB DRAIN SHALL BE CONNECTED TO THE DRAIN LINE AT THE SINK NEAR BY. |

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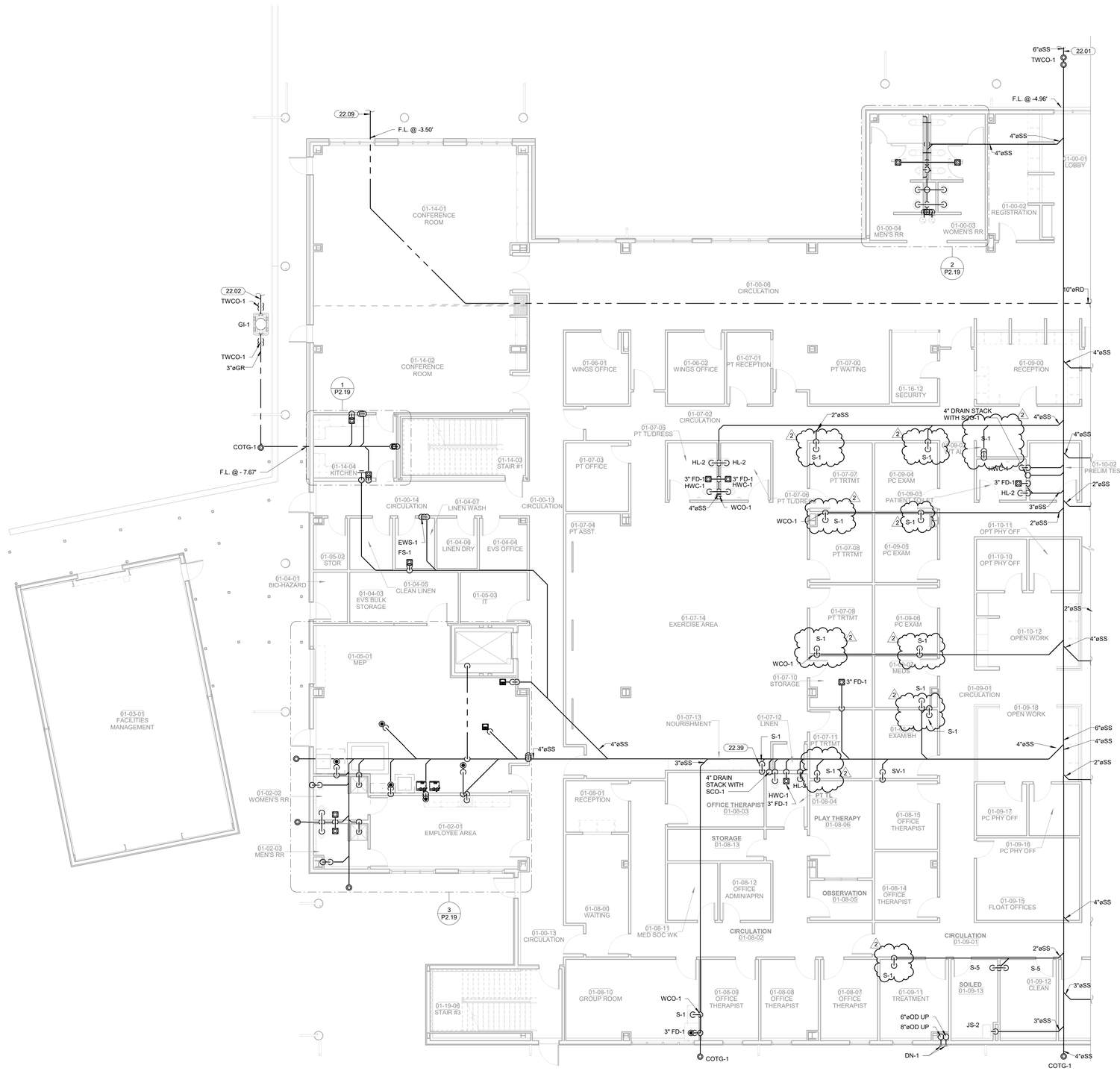


FLOOR PLAN LEVEL 01 SECTOR 02 - DRAIN PLAN

1/8" = 1'-0"


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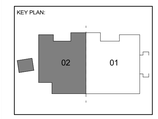
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

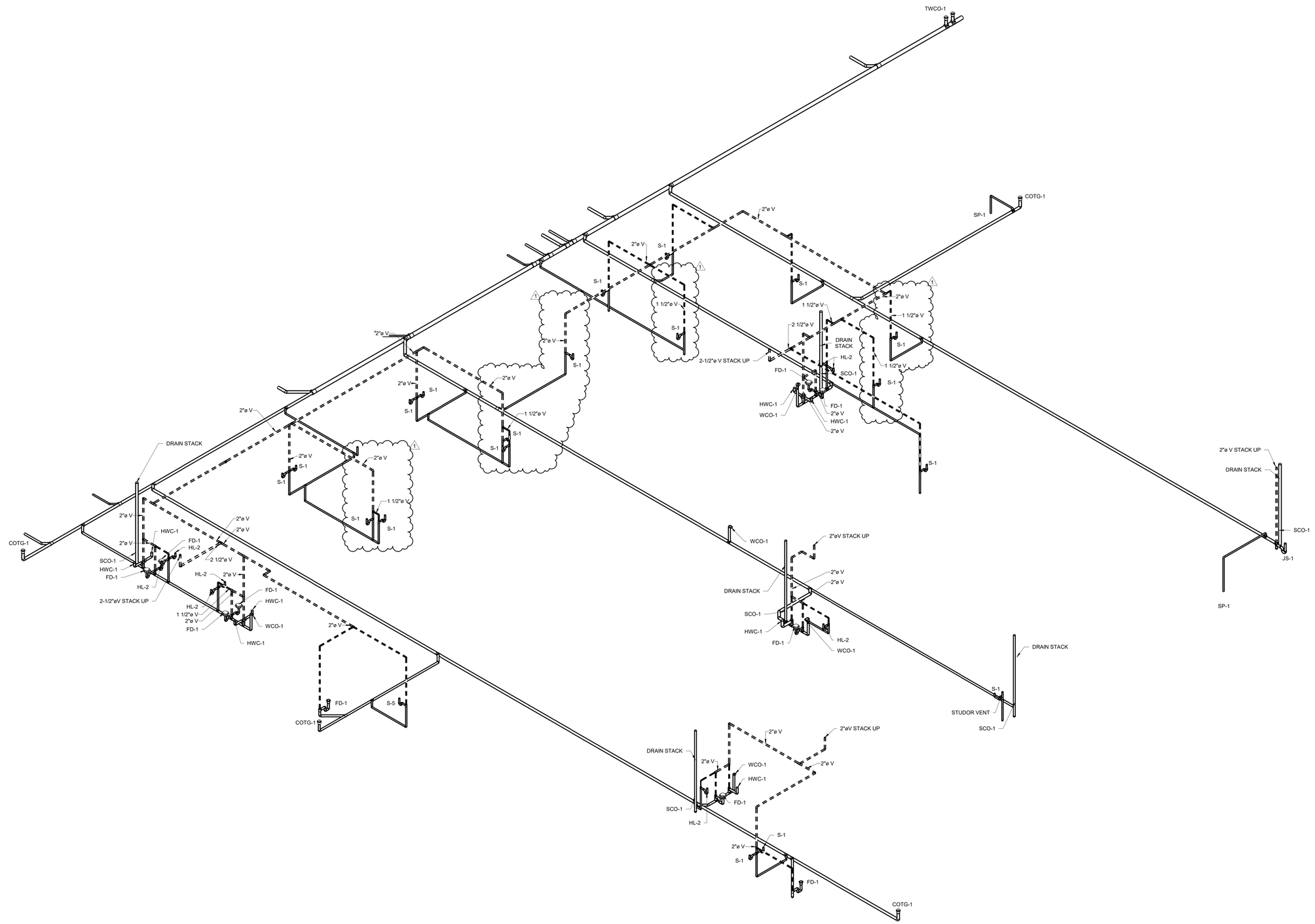
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

P2.12

DRAIN PLAN LEVEL 01 SECTOR 02




PLUMBING VENT ISOMETRIC LEVEL 01 SECTOR 01

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

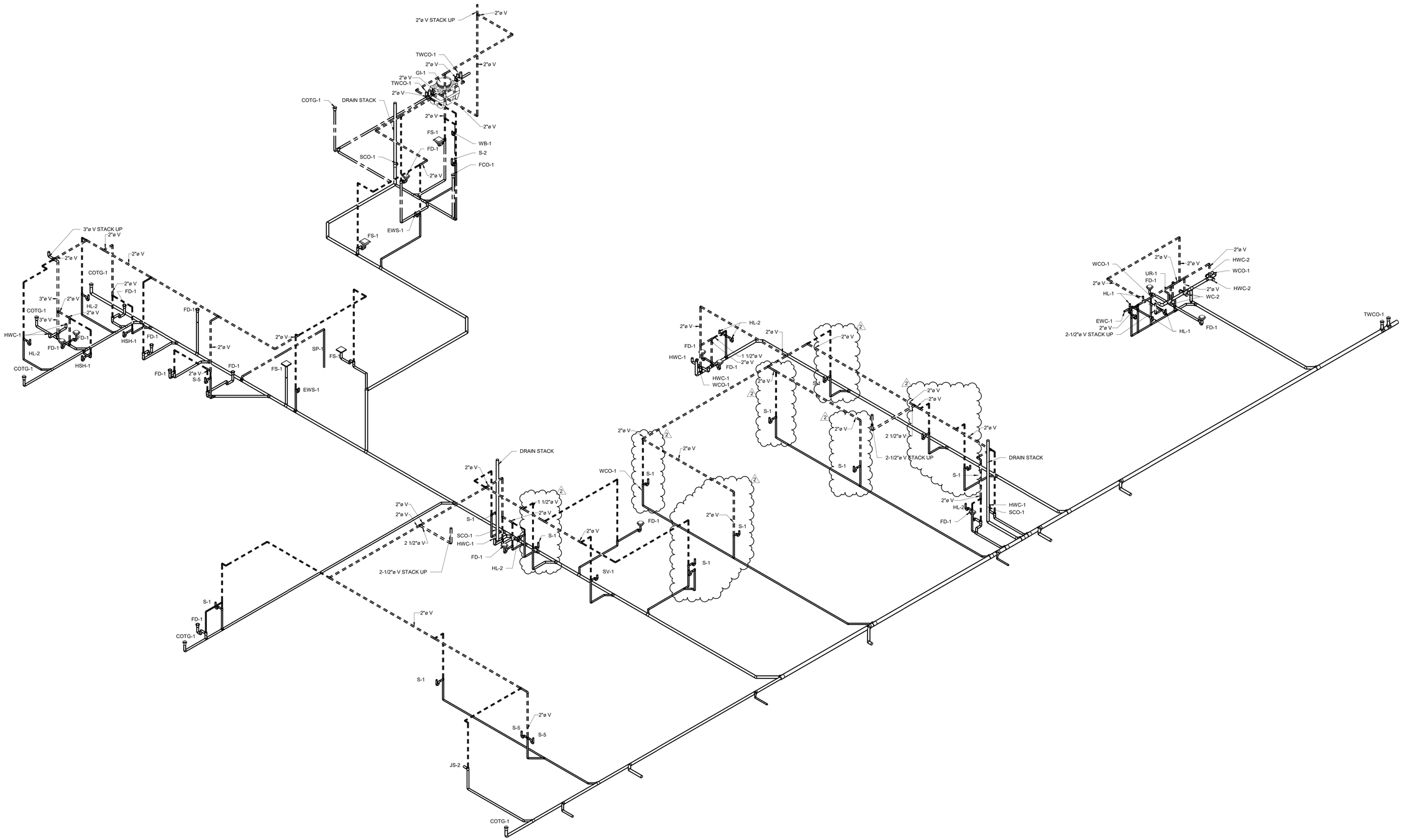
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
P2.20

PLUMBING DRAIN/VENT ISOMETRIC





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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

P2.21

PLUMBING DRAIN/VENT ISOMETRIC

SEISMIC RESTRAINTS FOR MEP EQUIPMENT AND SYSTEMS

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NOTES:
RELOCATE EXISTING SPRINKLER HEADS TO NEW LAYOUT. MODIFY EXISTING AND/OR PROVIDE NEW PIPING & HEADS AS NEEDED TO ACCOMMODATE NEW LAYOUT. ALL WORK TO BE DESIGNED AND PERFORMED BY A LICENSED FIRE PROTECTION DESIGN/BUILD CONTRACTOR.

FIRE PROTECTION CONTRACTOR SHALL MODIFY EXISTING SPRINKLER SYSTEM FOR NEW PLAN. REFER TO GENERAL FIRE SPRINKLER NOTES ON SHEET P1.0.

OVERALL LEVEL 01 SUPPLY PLAN
1" = 10'-0"


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# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:
02
01

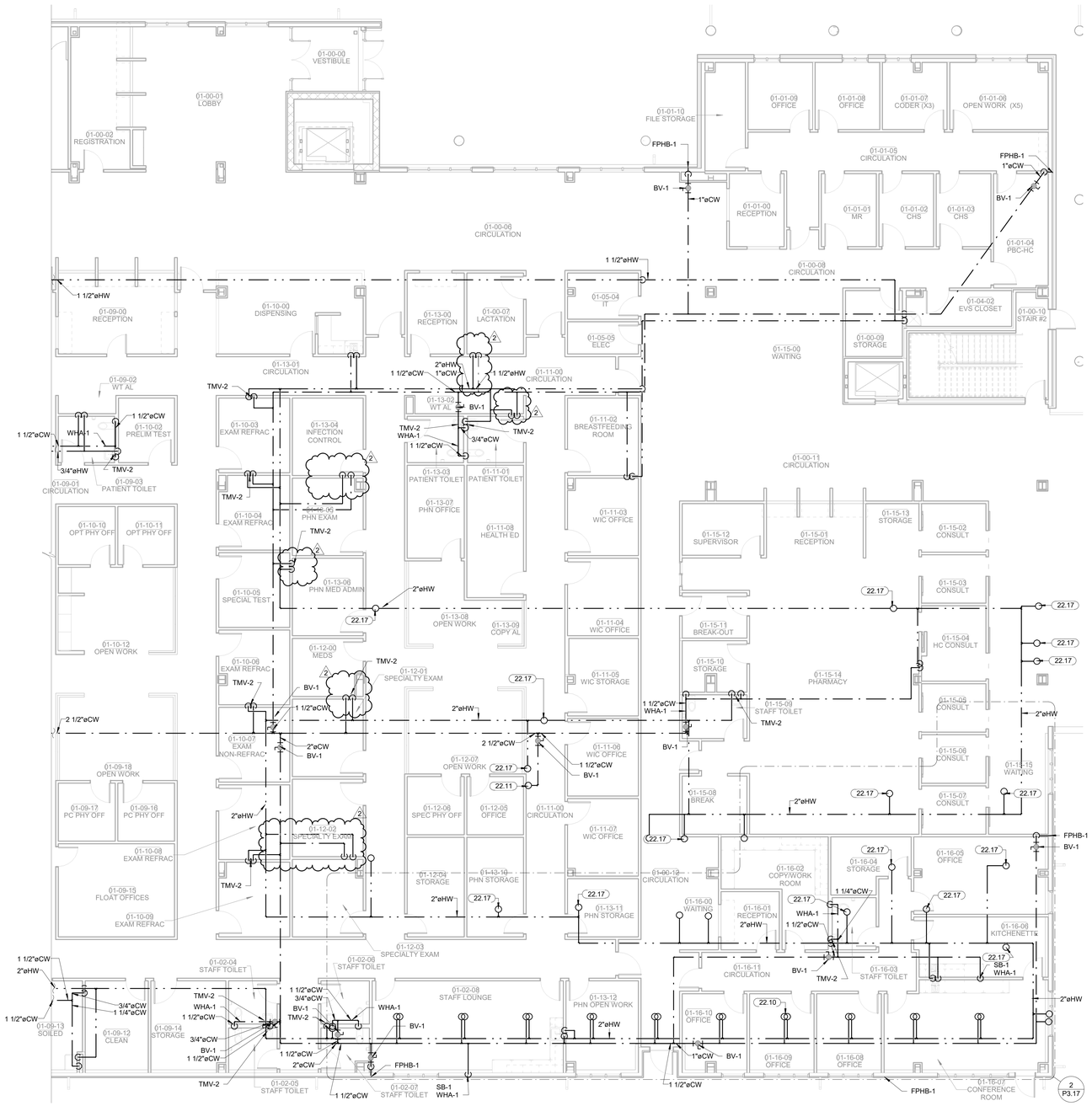
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: P3.00

OVERALL LEVEL 01 SUPPLY PLAN

| KEYNOTES | |
|---|---|
| Key Value | Keynote Text |
| 22.10 | 3/4" CW & HW UP. TYPICAL 12 PLACES. |
| 22.11 | 2-1/2" CW UP TO 2ND FLOOR. |
| 22.17 | 3/4" HW UP. |




FLOOR PLAN LEVEL 01 SECTOR 01 - SUPPLY PLAN

1/8" = 1'-0"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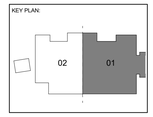


PROJECT PHASE:

BID PACKAGE 02

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| # | DATE | DESCRIPTION |
| 1 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

P3.11

SUPPLY PLAN
LEVEL 01
SECTOR 01

## KEYNOTES

| | |
|---|---|
| 22.03 | NEW 8" FIRE LINE. STUB UP INSIDE BUILDING FOR SPRINKLER CONTRACTOR CONNECTION. FIRE LINE TO BE SIZED BY SPRINKLER CONTRACTOR. REFER TO CIVIL PLANS FOR CONTINUATION. |
| 22.04 | FIRE LINE TO FDC. REFER TO CIVIL PLANS FOR CONTINUATION. COORDINATE EXACT LOCATION OF FDC WITH LOCAL FIRE MARSHAL. |
| 22.05 | 3" DOMESTIC WATER LINE. REFER TO CIVIL PLANS FOR CONTINUATION. 143 G.P.M. |
| 22.06 | 2" MEDIUM PRESSURE GAS LINE (2 PSI). REFER TO CIVIL PLANS FOR CONTINUATION. 2859.9 MBH |
| 22.07 | IRRIGATION LINE TO RPZ-2. COORDINATE SIZE WITH IRRIGATION CONTRACTOR. REFER TO CIVIL PLANS FOR CONTINUATION. |
| 22.08 | IRRIGATION LINE. COORDINATE SIZE WITH IRRIGATION CONTRACTOR. REFER TO CIVIL PLANS FOR CONTINUATION. |
| 22.20 | PROVIDE 1" CW LINE TO THE MECHANICAL YARD YH-1. COORDINATE EXACT LOCATION OF THE YH-1 WITH EQUIPMENT AND OWNER/OWNER REPRESENTATIVE. |
| 22.38 | PROVIDE CW LINE TO LAUNDRY DETERGENT DISPENSER. PROVIDE BACKFLOW PREVENTER PRIOR TO SOAP DISPENSER CONNECTION. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATION OF DETERGENT DISPENSER AND SIZE OF CONNECTION. |

FLOOR PLAN LEVEL 01 SECTOR 02 - SUPPLY PLAN
1/8" = 1'-0"


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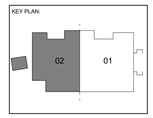
STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
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DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: P3.12

SUPPLY PLAN LEVEL 01 SECTOR 02

# EXPANSION TANK SCHEDULE

| TAG | DESCRIPTION | MFR | MODEL | ASME CONSTRUCTION (YES/NO) | CAPACITY (GALLONS) | ACCEPTANCE (GALLONS) | INITIAL TANK PRESSURE (PSIG) | NOTES |
|---|---|---|---|---|---|---|---|---|
| ET-1 | HEATING WATER EXPANSION TANK | ARMSTRONG | A200-L | YES | 30 | 30 | 12 | 35% ETYLENE GLYCOL |
| ET-2 | CHILLED WATER EXPANSION TANK | ARMSTRONG | A300-L | YES | 50 | 50 | 12 | 35% ETYLENE GLYCOL |

# PUMP SCHEDULE

| TAG | MFR | MODEL | TYPE | SERVICE | GPM | SYSTEM HEAD (ft) | MAX HP | VOLTS / PHASE | NOTES |
|---|---|---|---|---|---|---|---|---|---|
| CHWP-1 | GRUNDFOS | HYDRO MPCE 3CRE64-2-2 | TRIPLEX | CHILLED WATER | 620 | 150 | (3) 20 | 460 / 3 | SEE BELOW |
| HWP-1 | GRUNDFOS | HYDRO MPCE 3CRE20-2 | TRIPLEX | HEATING WATER | 230 | 100 | (3) 5 | 460 / 3 | SEE BELOW |

GENERAL NOTES APPLICABLE TO ALL UNITS :
1.) PUMPS TO BE FURNISHED WITH INTEGRAL MOTOR VFD'S
2.) PUMPS TO BE VERTICAL MULTI-STAGE WITH SPLIT COUPLING
3.) PUMPS TO HAVE LIFETIME ALIGNMENT GUARANTEE
4.) SUCTION AND DISCHARGE HEADERS TO BE 316L STAINLESS STEEL
5.) PUMP BASEPLATE SHALL BE 304 STAINLESS STEEL
6.) ON-BOARD PUMP CONTROLLER SHALL CASECADE AND SEQUENCE PUMPS FOR MAXIMUM EFFICIENCY
7.) PUMP CURVES SHALL BE PROGRAMMED INTO CONTROLLER
8.) ENTIRE SYSTEM (PUMPS, VFD'S, CONTROLLER) SHALL BE MADE BY A SINGLE MANUFACTURER
9.) PUMPS TO BE OPERATED IN PARALLEL CONTROL
10.) EACH SKID MOUNTED SYSTEM SHALL INCLUDE ALL PIPE, VALVES AND FITTINGS, AND OFFER SINGLE POINT CONNECTIONS
11.) FURNISH EACH SYSTEM WITH BACNET INTERFACE CARD
12.) SYSTEM DESIGNED FOR 2 PUMPS TO HANDLE FULL LOAD WITH 3RD PUMP AS BACKUP
13.) FURNISH EACH SYSTEM WITH DIFFERENTIAL PRESSURE TRANSDUCERS
14.) SCCR 100K

# AIR DEVICE SCHEDULE

| TAG | DESCRIPTION | MFR | MODEL | FACE SIZE | FRAME SIZE | NECK SIZE | MATERIAL/ FINISH | MAX FLOW |
|---|---|---|---|---|---|---|---|---|
| CD-1 | CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE | PRICE | AMD | 9x9 | 12x12 | 6 | ALUMINUM/ WHITE | 100 CFM |
| CD-2 | CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE | PRICE | AMD | 18X18 | 24x24 | 8 | ALUMINUM/ WHITE | 200 CFM |
| CD-3 | CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE | PRICE | AMD | 18x18 | 24x24 | 10 | ALUMINUM/ WHITE | 350 CFM |
| CD-4 | CEILING DIFFUSER, LOUVERED FACE, ADJUSTABLE | PRICE | AMD | 18x18 | 24x24 | 12 | ALUMINUM/ WHITE | 475 CFM |
| EAG-1 | EGG CRATE EXHAUST GRILLE | PRICE | 80 | 12X12 | 14X14 | N/A | ALUMINUM/ WHITE | 500 CFM |
| EAG-2 | EGG CRATE EXHAUST GRILLE | PRICE | 80 | 22X22 | 24X24 | N/A | ALUMINUM/ WHITE | 1000 CFM |
| LR-1 | LINEAR 1" SLOT RETURN WITH SDA PLENUM | PRICE | SDR | 1", 1 SLOT | 60" | N/A | ALUMINUM/ REF ARCH | 200 CFM |
| LS-1 | LINEAR 1" SLOT DIFFUSER WITH SDA PLENUM, 1 SLOT | PRICE | SDS | 1", 1 SLOT | 48" | N/A | ALUMINUM/ REF ARCH | 150 CFM |
| LS-2 | LINEAR 1" SLOT DIFFUSER WITH SDA PLENUM, 1 SLOT | PRICE | SDS | 1", 1 SLOT | 60" | N/A | ALUMINUM/ REF ARCH | 200 CFM |
| LS-3 | LINEAR 1" SLOT DIFFUSER WITH SDA PLENUM, 2 SLOT | PRICE | SDS | 1", 2 SLOT | 60" | N/A | ALUMINUM/ REF ARCH | 400 CFM |
| LS-4 | LINEAR 1" SLOT DIFFUSER WITH SDA PLENUM, 1 SLOT | PRICE | SDS | 1", 1 SLOT | 24" | N/A | ALUMINUM/ REF ARCH | 100 CFM |
| LV-1 | WIND DRIVEN RAIN LOUVER | GREENHECK | EVH-501 | 12X14 | N/A | N/A | ALUMINUM/ REF ARCH | 150 CFM |
| LV-2 | WIND DRIVEN RAIN LOUVER | GREENHECK | EVH-501 | 22X36 | N/A | N/A | ALUMINUM/ REF ARCH | 1300 CFM |
| RAG-1 | EGG CRATE RETURN GRILLE | PRICE | 80 | 22x22 | 24x24 | REF PLANS | ALUMINUM/ WHITE | 2500 CFM |
| STG-1 | SIDEWALL RETURN GRILLE 30º DEFLECTION 1/2" O.C. SPACING. BLADES PARALLEL TO LONG DIMENSION | PRICE | 630 | 8x6 | 10x8 | N/A | ALUMINUM/ WHITE | 250 CFM |
| STG-2 | SIDEWALL RETURN GRILLE 30º DEFLECTION 1/2" O.C. SPACING. BLADES PARALLEL TO LONG DIMENSION | PRICE | 630 | 8x8 | 10x10 | N/A | ALUMINUM/ WHITE | 300 CFM |
| TG-1 | SIDEWAL TRANSFER GRILLE. 35 DEGREE DEFLECTION | PRICE | 630 | 14X14 | 16X16 | N/A | ALUMINUM/ WHITE | 672 CFM |
| TPG-1 | MAXIMUM SECURITY GRILLE - SUICIDE DETERRENT - FIELD WELD INSTALL | TITUS | SG-SD | 8X8 | 10X10 | N/A | ALUMINUM/ WHITE | 150 CFM |

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. COORDINATE AIR DEVICE DEFLECTION ADJUSTMENTS WITH THE MECHANICAL ENGINEER DURING AIR BALANCE.
2. PROVIDE 2" FACTORY FIBERGLASS WRAP ON ALL SUPPLY DIFFUSERS WITH BACKSIDE NOT EXPOSED TO SPACE.
3. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
4. ALL AIR DEVICES ARE 4-WAY THROW UNLESS OTHERWISE NOTED IN SCHEDULES OR WITH FLOW ARROWS ON DRAWINGS.
5. REFER TO SPECIFICATIONS FOR APPROVED ALTERNATES.
6. BRANCH DUCT SIZE SHALL BE SAME AS NOTED DIFFUSER NECK SIZE UNLESS NOTED OTHERWISE. PROVIDE TRANSITION WHERE DUCT SIZE DIFFERS FROM NECK SIZE.
7. WHERE FINISH AND COLOR ARE NOTED TO BE SELECTED BY ARCHITECT/OWNER, THIS CONTRACTOR SHALL PROVIDE A COLOR PALETTE SAMPLE FOR FINAL APPROVAL WITH THE SUBMITTALS.
8. COORDINATE WITH ARCHITECT'S REFLECTED CEILING PLAN TO PROVIDE APPROPRIATE FRAME TYPE AND MOUNTING ACCESSORIES.
9. EQUALS PER SPECIFICATIONS.

# EXHAUST FAN SCHEDULE

| TAG | DESCRIPTION | MFR | MODEL | DRIVE | FLOW | ESP | RPM | VOLTS / PH | POWER | CONTROL TYPE | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | CABINET EXHAUST FAN | GREENHECK | SP-A125 | DIRECT | 75 | 0.25 | 1100 | 120/1 | 21 W | WALL SWITCH | A, F, G, I |
| EF-2 | CABINET EXHAUST FAN | GREENHECK | SP-A125 | DIRECT | 75 | 0.25 | 1100 | 120/1 | 21 W | WALL SWITCH | A, F, G, I |
| EF-3 | CABINET EXHAUST FAN | GREENHECK | SP-A125 | DIRECT | 75 | 0.25 | 1100 | 120/1 | 21 W | WALL SWITCH | A, F, G, I |
| EF-4 | CABINET EXHAUST FAN | GREENHECK | SP-A125 | DIRECT | 75 | 0.25 | 1100 | 120/1 | 21 W | WALL SWITCH | A, F, G, I |
| EF-5 | RECTANGULAR INLINE DUCT FAN | GREENHECK | SQ-120-VG | DIRECT | 1375 (3) | 1 | 1654 | 120/1 | 1/2 HP | CONTINUOUS, BAS | A, G, H |
| EF-6 | RECTANGULAR INLINE DUCT FAN | GREENHECK | SQ-97-VG | DIRECT | 150 | 0.6 | 1494 | 120/1 | 1/4 HP | CONTINUOUS, BAS | A, G, H |
| EF-7 | DOWNBLAST EXHAUST FAN | GREENHECK | G-090-VG | DIRECT | 300 | 0.25 | 1058 | 120/1 | 1/10 HP | WALL SWITCH | B |
| EF-8 | DOWNBLAST EXHAUST FAN | GREENHECK | G-143-VG | DIRECT | 1250 | 0.6 | 1133 | 120/1 | 1/2 HP | CONTINUOUS, BAS | B |
| EF-9 | CABINET EXHAUST FAN | GREENHECK | SP-A125 | DIRECT | 75 | 0.25 | 1100 | 120/1 | 21 W | WALL SWITCH | A, F, G, I |
| EF-10 | RECTANGULAR INLINE DUCT FAN | GREENHECK | SQ-90-VG | DIRECT | 250 | 0.3 | 1194 | 120/1 | 1/10 | T-STAT | A, D, H |

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. PROVIDE PRE-WIRED FACTORY MOUNTED INTEGRAL DISCONNECT DEVICE (NEMA 3R FOR EXTERIOR).
2. PROVIDE VARIABLE SPEED CONTROLLER (FACTORY INSTALLED IF AVAILABLE) ON ALL DIRECT DRIVE FANS FOR FAN BALANCING.
3. PROVIDE BELT TENSIONER ON ALL BELT DRIVE FANS.
4. PROVIDE WALL SLEEVE, FAN GUARD, EXTERIOR WEATHER HOOD AND MOTORIZED DAMPER WITH TIME DELAY CONTROLS ON ALL WALL MOUNTED PROPELLER FANS.
5. MOUNT FAN SPEED CONTROLLER IN ACCESSIBLE LOCATION ABOVE CEILING UNLESS OTHERWISE NOTED.
6. PROVIDE ROOF CURB TO MATCH ROOF TYPE AND SLOPE AT ALL ROOF MOUNTED FANS.

NOTES
A PROVIDE BACKDRAFT DAMPER.
B PROVIDE MOTORIZED DAMPER WITH TIME DELAY FAN START. MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLING FAN, ROOF CURB, BACK DRAFT DAMPER, AND ALL INTERNAL POWER AND CONTROL WIRING AS REQUIRED TO PROVIDE FULLY OPERATIONAL FAN AND DAMPER.
C PROVIDE WITH VARIABLE FREQUENCY DRIVE SAME SIZE AS LISTED MOTOR HORSE POWER. PROVIDE WITH INVERTER DUTY (NEMA MGI PART 31), MOTOR-MOUNTED GROUNDING RING. REFER TO VARIABLE FREQUENCY DRIVE SCHEDULE FOR SPECIFICS.
D PROVIDE SPUN ALUMINUM VENT CAP, COOK MODEL "PR" WITH ROOF CURB.
E PROVIDE MANUFACTURER'S BRICK VENT. COLOR TO BE SELECTED BY ARCHITECT.
F PROVIDE MANUFACTURER'S WHITE ALUMINUM GRILLE.
G PROVIDE BIRD SCREEN.
H PROVIDE ISOLATOR KIT.
I PROVIDE MANUFACTURER'S WALL CAP.
J PROVIDE GREASE COLLECTION CUP.

GENERAL NOTE:
ALL RECTANGULAR DUCT SIZES SHOWN ARE THE OUTSIDE METAL DIMENSIONS. DUCT DIMENSIONS ALREADY HAVE ALLOWANCES FOR THE INSULATION LINER WHERE APPLICABLE IN THE RECTANGULAR DUCTS. AT DUAL WALL DUCTS, THE DIMENSION SHOWN IS THE OUTSIDE METAL DUCT SIZE AND ALREADY HAS ALLOWANCES FOR THE INSULATION THICKNESS.

NOTE: NO LINED DUCT IN KITCHEN

# MECHANICAL DUCTWORK & INSULATION SCHEDULE

| SERVICE | DUCT TYPE | INSULATION TYPE | INSULATION THICKNESS |
|---|---|---|---|
| ALL RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES CONCEALED ABOVE CEILINGS | ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS. | FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER | 2" WRAP OR 1-1/2" LINER, R VALUE=6.0 |
| ALL SUPPLY AIR DIFFUSERS (BACKSIDE, NOT EXPOSED TO SPACE) | N/A | FIBERGLASS WRAP | 2" WRAP, R VALUE=6.0 |
| FRESH AIR SUPPLY DUCT | ROUND WRAPPED | FIBERGLASS WRAP | 2" WRAP R VALUE=6.0 |
| FRESH AIR EXHAUST DUCT | ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS. | FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER. N/A IF IN UNCONDITIONED SPACE | 2" WRAP OR 1-1/2" LINER, R VALUE=6.0 |
| RESTROOM EXHAUST DUCT | ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS. | FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER FIBERGLASS LINER | 2" WRAP OR 1-1/2" LINER, R VALUE=6.0 |
| ALL MEDIUM PRESSURE CONSTANT VOLUME AND VAV SUPPLY AIR DUCT FOR FIRST 20' FROM AIR HANDLER OR PACKAGED UNIT | DOUBLE WALL SPIRAL WITH PERFORATED METAL LINER | FIBERGLASS EQUAL TO UNITED MCGILL ACOUSTIC - K27 | 1-1/2", R VALUE=6.0 |
| ALL MEDIUM PRESSURE CONSTANT VOLUME AND VAV SUPPLY AIR DUCT BEYOND 20' FROM AIR HANDLER OR PACKAGED UNIT | ROUND WRAPPED OR RECTANGULAR LINED, AS INDICATED ON PLANS. | FIBERGLASS WRAP OR MATTE FACED FIBERGLASS LINER FIBERGLASS LINER | 2" WRAP OR 1-1/2" LINER, R VALUE=6.0 |
| FUMEHOOD EXHAUST DUCT | 304 STAINLESS STEEL SEALED WITH MASTIC JOINT SEALER | FIBERGLASS WRAP | 1-1/2", R VALUE=6.0 |
| FLAMMABLE STORAGE EXHAUST DUCT | EXPLOSION PROOF AND CORROSION PROOF WELDED 304 STAINLESS STEEL | FIBERGLASS WRAP | 1-1/2", R VALUE=6.0 |
| ALL SUPPLY AND RETURN DUCT SERVING SOUND SENSITIVE ROOMS | DOUBLE WALL SPIRAL WITH PERFORATED METAL LINER | FIBERGLASS EQUAL TO UNITED MCGILL ACOUSTIC - K27 | 1-1/2", R VALUE=6.0 |
| GREASE DUCT | 16 GAUGE, CARBON STEEL WELDED AIR TIGHT AT ALL JOINTS AND SEAMS. MECHANICAL FASTENERS SHALL NOT PENETRATE DUCT WALL | THERMAL CERAMICS FIREMASTER. UL LISTED FOR ZERO CLEARANCE TO COMBUSTIBLES | 3" |

# HYDRONIC ACCESSORIES SCHEDULE

| TAG | DESCRIPTION | MFR | MODEL | TANK MIXTURE | TANK VOLUME (GALLONS) | PRESSURE RANGE (PSI) | MAKE-UP CAPACITY (GPM @ PSI) | HP | VOLT/PH | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|
| CPF-1 | CHEMICAL FEEDER WITH PUMP | GRUNDFOS | GMPD-23050 | 35% GLYCOL | 50 | 10-70 | 1.8 @70 | 1/3 | 120/1 | 1-7 |
| CPF-2 | CHEMICAL FEEDER WITH PUMP | GRUNDFOS | GMPD-23050 | 35% GLYCOL | 50 | 10-70 | 1.8 @70 | 1/3 | 120/1 | 1-7 |

ACCESSORIES:
1. PROTECTIVE LOW WATER CUT-OFF ALARM.
2. HOA CONTROLS
3. 1/3 HP BRASS ROTARY VANE PUMP
4. MAGNETIC STARTER
5. PRESSURE TANK WITH PRESSURE CONTROLS
6. PROVIDE WITH PRESSURE GUAGES, PRESSURE REDUCING VALVE AND SYSTEM ISOLATION VALVES.
7. PROVIDE 110V SIGNAL FOR A REMOTE ALARM.

# AIR SEPARATOR SCHEDULE

| MARK | SERVES | MFR | MODEL | VOLUME (GAL) | WPD (FT) | WEIGHT (LB) | ACCESSORIES |
|---|---|---|---|---|---|---|---|
| AS-1 | HEATING WATER SYSTEM | SPIROTHERM | VDT 600 FA | 19.8 | 3 | 260 | STEEL MESH STRAINER |
| AS-2 | CHILLED WATER SYSTEM | SPIROTHERM | VDT 600 FA | 19.8 | 3 | 260 | STEEL MESH STRAINER |

# GENERAL MECHANICAL NOTES

| | |
|---|---|
| 1 | SUBMISSION OF PROPOSAL IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID. |
| 2 | ALL RECTANGULAR DUCT SIZES SHOWN ARE THE OUTSIDE METAL DIMENSIONS. DUCT DIMENSIONS ALREADY HAVE ALLOWANCES FOR THE INSULATION LINER WHERE APPLICABLE IN THE RECTANGULAR DUCTS. AT DUAL WALL DUCTS, THE DIMENSION SHOWN IS THE OUTSIDE METAL DUCT SIZE AND ALREADY HAVE ALLOWANCES FOR THE INSULATION THICKNESS. |
| 3 | ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES, RULES, REGULATIONS, AND ORDINANCES WHICH SHALL TAKE PRECEDENCE OVER THE PLANS IF CONFLICTS EXIST BETWEEN THEM. |
| 4 | THE DRAWINGS INDICATE THE GENERAL LAYOUT REQUIREMENTS FOR EQUIPMENT, FIXTURES, PIPING, DUCTWORK, ETC. FINAL LAYOUT SHALL BE MODIFIED TO FIT ACTUAL SITE CONDITIONS. |
| 5 | COORDINATE ALL WORK WITH THE OWNER AND ALL OTHER CONTRACTORS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, AND PROTECTION OF MATERIALS. PROVIDE LABOR TO RECEIVE UNLOAD, STORE, PROTECT, AND TRANSFER TO POINT OF INSTALLATION OF ANY OWNER-FURNISHED ITEMS. |
| 6 | IN CASES OF EQUIPMENT SUBSTITUTION, CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL SYSTEMS AND COMPONENTS WILL FIT PROPERLY PRIOR TO FABRICATION OR ORDERING. INSTALLED DUCTS MAY BE RESIZED BY THE CONTRACTOR TO FIT FIELD CONDITIONS AS LONG AS THE INSTALLED DUCTS SHALL HAVE EQUAL FRICTION LOSS TO THOSE SHOWN. RECTANGULAR DUCTS SHALL NOT BE CHANGED TO ROUND DUCTS. PROVIDE COMPLETE SHEET METAL SHOP DRAWINGS TO ENGINEER SHOWING ACTUAL DUCT SIZES, ARRANGEMENTS, AND UNIT LOCATIONS TO BE INSTALLED. THIS SHALL BE DONE PRIOR TO FABRICATION OR INSTALLATION. |
| 7 | INSTALL ACOUSTIC TURNING VANES IN ELBOWS IN RECTANGULAR DUCTS 20" AND LARGER. INSTALL RADIUS TYPE ELBOWS IN RECTANGULAR DUCTS SMALLER THAN 20". |
| 8 | USE 45 DEGREE TAKE-OFF FITTINGS AT ALL ROUND SUPPLY BRANCH TAKEOFFS. PROVIDE BALANCE DAMPERS AT ALL SUPPLY DUCT RUNOUTS TO GRILLES. LOCATE AS FAR AS POSSIBLE FROM GRILLES IN AN ACCESSIBLE LOCATION. PROVIDE ACCESS PANELS IN SOLID WALLS AND CEILINGS FOR BALANCING DAMPERS. |
| 9 | USE FLEX DUCTS FOR FINAL CONNECTION TO ALL CEILING DIFFUSERS, AND WHERE NECESSARY, SIDEWALL DIFFUSERS, AND LIMIT TO 6' MAX. LENGTHS. |
| 10 | PROVIDE A COMPLETE AND OPERATING MECHANICAL SYSTEM, INCLUDING ALL INCIDENTAL ITEMS AND CONNECTIONS NECESSARY FOR PROPER OPERATION OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM MAY NOT BE INDICATED. |
| 11 | THE MECHANICAL INSTALLATION SHALL BE SAFE, RELIABLE, ENERGY EFFICIENT AND EASILY MAINTAINED WITH ADEQUATE PROVISIONS ALLOWED FOR ACCESS TO EQUIPMENT. |
| 12 | THE MECHANICAL SYSTEM SHALL OPERATE QUIETLY WITH NOISE LEVELS BELOW THE CRITERIA RECOMMENDED FOR THE APPLICATION BY ASHRAE. PROVIDE CORRECTIVE ACTION AS REQUIRED TO REDUCE OBJECTIONABLE NOISE OR VIBRATION. |
| 13 | UNDERCUT DOORS 3/4 INCH WHERE NO RETURN NOR EXHAUST GRILLE IS SHOWN TO ALLOW FOR AIR TRANSFER (DO NOT UNDERCUT FIREDOORS.) |
| 14 | REFER TO ARCH. PLANS AND DETAILS FOR EXACT LOCATION OF ALL WALL AND CEILING MOUNTED DEVICES. ADJUST LOCATION OF SIDEWALL DEVICES AS NECESSARY TO AVOID INTERFERENCE WITH MOLDING OR OTHER ELECTRICAL DEVICES. |
| 15 | WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE-RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOWN CORNING CORP "SILICONE ELASTOMER, RTV FOAM, OR SIMILAR MATERIAL TO MAINTAIN FIRE RATING OF THE WALL OR FLOOR. |
| 16 | CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AND BEAM PENETRATIONS AS IT RELATES TO HIS WORK. |
| 17 | CONTRACTOR SHALL NOT INSTALL ANY MAINTENANCE ITEMS ABOVE HARD CEILINGS. THIS SHALL INCLUDE VALVES, DAMPERS, OR ANY OTHER ITEMS THAT REQUIRE ACCESS AFTER CONSTRUCTION IS COMPLETED. IF INSTALLATION ABOVE A HARD CEILING OF THESE ITEMS CANNOT BE AVOIDED, THEN PROVIDE CEILING ACCESS DOORS EQUAL TO ACUDOR MODEL FW-505 WHERE REQUIRED. AT FIRE-RATED WALLS, USE EQUIVALENT OF ACUDOR MODEL FB-5060. MINIMUM SIZE SHALL BE 12"x12". USE 18"x18" WHEN PERSONNEL ACCESS IS REQUIRED. |
| 18 | PROVIDE AN INSULATED BACK ON ALL THERMOSTATS AND TEMPERATURE SENSORS THAT ARE MOUNTED ON CMU OR HOLLOW WALLS. PROVIDE SHALLOW DEVICE EXTENSION BOX BEHIND T-STATS AND SENSORS ON MASONRY WALLS IN COMMERCIAL / RETAIL SPACES. |
| 19 | PROVIDE FIRE DAMPERS AT ALL FIRE-RATED WALLS AND FLOOR PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE BARRIER WALLS AND CEILINGS. |
| 20 | IF A CENTRAL FIRE ALARM SYSTEM IS REQUIRED FOR THIS PROJECT, MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS PROVIDED BY FIRE ALARM CONTRACTOR. REFER TO ELECTRICAL NOTES FOR EXACT REQUIREMENTS. MECHANICAL CONTRACTOR SHALL IDENTIFY A SET OF TERMINALS FOR EQUIPMENT SHUTDOWN ON ALL FAN POWERED EQUIPMENT REQUIRING SHUTDOWN CONTROLS. FIRE ALARM CONTRACTOR SHALL WIRE FROM DUCT MOUNTED SMOKE DETECTOR TO SHUTDOWN TERMINALS TO SHUT DOWN FAN OPERATION WHEN SMOKE IS DETECTED. |
| 21 | AT PENETRATIONS THROUGH FIRE WALLS: ANY PVC PIPE OR DUCT SHOULD BE EXTERNALLY SLEEVED WITH STEEL, FERROUS, OR COPPER MATERIALS, SECURELY FASTENED TO THE FIRE RATED ASSEMBLY, AND ANY SPACE BETWEEN THE SLEEVE AND THE ASSEMBLY PENETRATED SHALL BE PROTECTED USING MATERIAL THAT CONFORMS TO ASTM E 814 OR UL 1479, SUCH AS FIRE STOP FS-1900, OR FLAME STOPPER 5000. |
| 22 | REFER TO ELECTRICAL DRAWINGS FOR SMOKE DAMPER AND FIRE/SMOKE DAMPER DETAIL. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DAMPERS WITH MOTORIZED ACTUATORS AND INSTALL SMOKE DETECTORS AND PROVIDE WIRING FOR FAN SHUTDOWN CONTROLS. COORDINATE WITH ELECTRICAL CONTRACTOR AND PROVIDE DAMPER ACTUATOR COMPATIBLE WITH ELECTRICAL WIRING PROVIDED. PROVIDE ANY WIRING OR COMPONENTS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR THAT ARE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. |
| 23 | AHEAD OF ALL VAV BOX INLETS, INSTALL STRAIGHT DUCT EQUIVALENT TO AT LEAST 2 DIAMETERS IN LENGTH WHETHER SHOWN ON PLANS OR NOT. |
| 24 | SEISMIC PROTECTION FOR CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURERS'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY |
| 26 | NO RECTANGULAR DUCT SMALLER THAN 10"X10" |

# MECHANICAL PIPING & INSULATION SCHEDULE

NOTE: ALL EXTERIOR INSULATED PIPING TO BE PROVIDED WITH ALUMINUM JACKET.

| SERVICE | PIPING TYPE | INSULATION TYPE | INSULATION THICKNESS | INSULATION THICKNESS NOMINAL PIPE SIZE <1 | 1 TO <1-1/2 | 1-1/2 TO <4 | 4 TO <8 | ≥8 |
|---|---|---|---|---|---|---|---|---|
| HOT WATER HEATING TO 250° F | STEEL, SCHEDULE 40, BLACK TYPE "L" HARD COPPER | FIBERGLASS | 1" UP TO 2" PIPE SIZE 1 1/2" ABOVE 2" PIPE SIZE | | | | | |
| CONDENSER WATER | STEEL, SCHEDULE 40, BLACK TYPE "L" HARD COPPER | FIBERGLASS | 1" ABOVE GRADE N/A BELOW GRADE N/A BELOW GRADE | | | | | |
| EQUIPMENT DRAINS, COOLING CONDENSATE LINES, AND OVERFLOWS | TYPE "L" HARD COPPER | ELASTOMERIC | 3/8" IF INTERIOR SPACE N/A EXTERIOR SPACE | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| ALL OUTDOOR INSULATED PIPING | PROVIDE WITH EMBOSSED ALUMINUM JACKET OVER SCHEDULED INSULATION | PER SCHEDULE | N/A | NA | NA | NA | NA | NA |
| CHILLED WATER BELOW GRADE | PREMANUFACTURED SYSTEM MEETING THE FOLLOWING CRITERIA: CARRIER PIPE OF HIGH DENSITY POLYETHYLENE (HDPE), CONFORMING TO ASTM D. PIPE AND FITTINGS MANUFACTURED FROM EXTRA HIGH MOLECULAR WEIGHT POLYETHYLENE COMPOUND MANUFACTURED FOR LISTED SERVICE. FITTINGS SHALL BE HEAT FUSION BUTT-WELDED TO ADJACENT PIPE SECTIONS. FITTINGS THAT BUTT FUSION WELDED IN THE FIELD ARE NOT INSULATED. END SEALS AT UNINSULATED FITTINGS SHALL BE FIELD APPLIED HEAT SHRINKABLE END SEALS. | POLYURETHANE FOAM EITHER SPRAY APPLIED OR INJECTED WITH ONE SHOT INTO THE ANNULAR SPACE BETWEEN CARRIER PIPE AND JACKET WITH A MINIMUM THICKNESS OF ONE INCH. INSULATION SHALL BE RIGID, 90-95% CLOSED CELL POLYURETHANE WITH A 2.0 TO 3.0 POUNDS PER CUBIC FOOT DENSITY AND COEFFICIENT OF THERMAL CONDUCTIVITY (K-FACTOR) OF 0.16 AND SHALL CONFORM TO ASTM C-591 | 1" ALL SIZES | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| CHILLED WATER ABOVE AND BELOW GRADE BETWEEN 40-60°F | STEEL, SCHEDULE 40, BLACK TYPE "L" HARD COPPER | FIBERGLASS | 1" ALL SIZES | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |

# CONDENSING BOILER SCHEDULE

| TAG | DESCRIPT | MNFR | MODEL | FLUID | WPD (FT) | FLOW RATE MAX/ MIN(GPM) | TURNDOWN | EFFICIENCY @ 100% FIRE / DESIGN EWT | OPERATING WEIGHT (LBS) | MBH IN | MBH OUT | BOILER VOLTAGE / PHASE / AMPS | PUMP VOLTAGE / PHASE / AMPS | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | CONDENSING BOILER | CAMUS HYDRONICS | AVNH1600 | 35% ETHYLENE GLYCOL | 4 | 115/13 | 22:1 | 92 | 1640 | 1600 | 1498 | 115V /1 /8A | 115V /1 /8A | EFF. % FOR 180F LWT/160F RWT |
| B-2 | CONDENSING BOILER | CAMUS HYDRONICS | AVNH1600 | 35% ETHYLENE GLYCOL | 4 | 115/13 | 22:1 | 92 | 1640 | 1600 | 1498 | 115V /1 /8A | 115V /1 /8A | EFF. % FOR 180F LWT/160F RWT |

GENERAL NOTES APPLICABLE TO ALL UNITS:
1.) REQUIRED GAS PRESSUREIS 7.0" W.C. MINIMUM TO 14" W.C. MAXIMUM.
2.) INSTALL BOILERS ON EXISTING CONRETE PAD. 10" DIA. FLUE VENT CONNECTION, 10" DIA. COMBUSTION AIR CONNECTION, 2" NPT GAS CONNECTION, 4" FLANGED WATER CONNECTIONS.
3.) MANUFACTURER TO PROVIDE STARTUP SERVICE AND FIRST YEAR LABOR WARRENTY WITH DIAGNOSTICS
4.) MANUFACTURER TO SUBMIT EQUIPMENT SHEETS WITH QUOTE INCLUDING CAPACITY, EFFICIENCY, MCA, LENGTH, WIDTH, HEIGHT, AND WEIGHT
5.) MANUFACTURER TO PROVIDE BACNET COMMUNICATION INTERFACE TO TEMPERATURE CONTROL SYSTEM FOR ENABLE/DISABLE, STATUS, ALARM, SETPOINT ADJUSTMENT AND FIRING RATE FOR EACH BOILER.
6.) HEATING OUTPUT BASED ON 160 DEG. RETURN WATER, 180 DEG. SUPPLY WATER.
7.) BOILER MANUFACTURER SHALL FURNISH THE FOLLOWING FIELD INSTALLATION: 50 PSI RELIEF VALVES; 100% LOCKUP GAS PRESSURE REGULATOR FOR EACH BOILER, CONDENSATE NEUTRALIZATION KIT; AND COMBUSTION AIR INLET FILTER.
8.) BOILER MANUFACTURER SHALL FURNISH BOILER CIRCULATION PUMP FOR INSTALLATION.
9.) INSTALL BOILER ON EXISTING CONCRETE PAD.
10.) MANUFACTURER TO INCLUDE ALL STEP CONTROL FOR BOILER CAPACITY CONTROL.
11.) MANUFACTURER TO PROVIDE BACNET COMMUNICATION INTERFACE TO TEMPERATURE CONTROL SYSTEM.
12.) MANUFACTURER TO PROVIDE BOILER EMERGENCY SHUT-DOWN SWITCH (RED MUSHROOM BUTTON WITH LAMICOID LABEL).
13.) PROVIDE CONDENSATE NUETRALIZER KIT.

# CHILLER SCHEDULE

| TAG | DESCRIPTION | MFR | MODEL | NOM. TONS | NET TONS | FLUID | FLOW RATE (GPM) | EVAP COIL PD | EWT (°F) | LWT (°F) | FAN FLA | TOTAL POWER | VOLTS | PH | MCA | MOCP | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CH-1 | AIR COOLED SCROLL TYPE | TRANE | CGAM130 | 130 | 107.5 | 35% ETHYLENE GLYCOL | 195 | 19.5 FT H20 | 51 | 40 | 33A | 158.7 kW | 460 V | 3 | 261 A | 300 A | UNIT HAS SIX COMPRESSOR ON TWO CIRCUITS |
| CH-2 | AIR COOLED SCROLL TYPE | TRANE | CGAM130 | 130 | 107.5 | 35% ETHYLENE GLYCOL | 195 | 19.5 FT H20 | 51 | 40 | 33A | 158.7 kW | 460 V | 3 | 261 A | 300 A | UNIT HAS SIX COMPRESSOR ON TWO CIRCUITS |

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. PROVIDE WITH SINGLE POINT POWER.
2. SCCR 65K
3. PHASE PROTECTION
4. BACNET INTERFACE
5. PROVIDE WITH FACTORY MOUNTED DISCONNECT.
6. PROVIDE WITH 5 YEAR FACTORY WARRENTY.

# ROOFTOP CHILLED WATER VAV AIR HANDLING UNIT WITH HOT WATER HEAT

| TAG | DESCRIPTION | MFR | MODEL | SUPPLY FAN DRIVE TYPE | SUPPLY FAN FAN HP | SUPPLY FAN CFM | SUPPLY FAN ESP (IN-WG) | SUPPLY FAN TSP (IN-WG) | SUPPLY FAN RPM | EXHAUST FAN FAN HP | EXHAUST FAN CFM | EXHAUST FAN ESP (IN-WG) | EXHAUST FAN TSP (IN-WG) | EXHAUST FAN RPM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | ROOFTOP MULTI-ZONE | TRANE | CSAA035 | DIRECT | (4) 10 | 17500 | 3 | 6.91 | 2842 | (4) 3.5 | 17500 | 2 | 2.66 | 2180 |
| AHU-2 | ROOFTOP MULTI-ZONE | TRANE | CSAA021 | DIRECT | (4) 5 | 10500 | 3 | 6.21 | 3738 | (4) 2.5 | 10500 | 2 | 2.65 | 2717 |
| AHU-3 | ROOFTOP MULTI-ZONE | TRANE | CSAA035 | DIRECT | (4) 10 | 17500 | 3 | 6.89 | 2842 | (4) 3.5 | 17500 | 2 | 2.66 | 2180 |
| AHU-4 | ROOFTOP MULTI-ZONE | TRANE | CSAA021 | DIRECT | (4) 5 | 10500 | 3 | 6.91 | 3738 | (4) 2.5 | 10500 | 2 | 2.65 | 2717 |

| TAG | HEATING COIL WATER FLUID | CAPACITY (MBH) | EAT / LAT (°F) | FACE AREA (SQ FT) | MAX FACE VELOCITY (FPM) | MAX APD (IN-WG) | HEAT ROWS | FINS / FT | GPM | MAX WPD (FT) | ENT / LVG WATER TEMP (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 35% ETHYLENE GLYCOL | 569.36 | 35 / 65 | 32.63 | 536 | 0.078 | 1 | 81 | 62.74 | 7.46 | 180 / 160 |
| AHU-2 | 35% ETHYLENE GLYCOL | 341.62 | 35 / 65.89 | 19.83 | 529 | 0.078 | 1 | 80 | 35.12 | 2.91 | 180 / 160 |
| AHU-3 | 35% ETHYLENE GLYCOL | 569.36 | 35 / 65 | 32.63 | 536 | 0.078 | 1 | 81 | 62.74 | 7.46 | 180 / 160 |
| AHU-4 | 35% ETHYLENE GLYCOL | 341.62 | 35 / 65.89 | 19.83 | 529 | 0.078 | 1 | 80 | 35.12 | 2.91 | 180 / 160 |

| TAG | COOLING COIL WATER FLUID | SENS / TOT CAP (MBH) | EAT DB / WB (°F) | LAT DB / WB (°F) | FACE AREA (SQ FT) | MAX FACE VELOCITY (FPM) | MAX APD (IN-WG) | ROWS | GPM | MAX WPD (FT) | EWT / LWT (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 35% ETHYLENE GLYCOL | 557.50 / 837.34 | 80 / 67 | 51.10 / 51 | 33.53 | 522 | 1.325 | 8 | 196.3 | 29.84 | 45 / 55 |
| AHU-2 | 35% ETHYLENE GLYCOL | 332.18 / 497.27 | 80 / 67 | 51.30 / 51.20 | 20.81 | 505 | 1.179 | 8 | 116.57 | 12.35 | 45 / 55 |
| AHU-3 | 35% ETHYLENE GLYCOL | 557.50 / 837.34 | 80 / 67 | 51.10 / 51 | 33.53 | 522 | 1.325 | 8 | 196.3 | 29.84 | 45 / 55 |
| AHU-4 | 35% ETHYLENE GLYCOL | 332.18 / 497.27 | 80 / 67 | 51.30 / 51.20 | 20.81 | 505 | 1.179 | 8 | 116.57 | 12.35 | 45 / 55 |

| TAG | OA CFM | PRIMARY AIR FILTERS | PRE-AIR FILTER | CIRCUIT #1 - SINGLE POINT POWER FLA (AMPS) | CIRCUIT #1 MCA (AMPS) | CIRCUIT #1 MOCP (AMPS) | CIRCUIT #2 - UV LIGHTS MCA (AMPS) | CIRCUIT #2 MOCP (AMPS) | CIRCUIT #3 - LIGHTS & SWITCH MCA (AMPS) | CIRCUIT #3 MOCP (AMPS) | CIRCUIT #4 - RECEPTACLE MCA (AMPS) | CIRCUIT #4 MOCP (AMPS) | WEIGHT (LB) | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AHU-1 | 4175 | (12) MERV 8 / (12) MERV 13 | (12) MERV 5 | 75.2 | 78.70 | 90 | 3.85 | 15 | 3.26 | 15 | 10 | 15 | 11500 | 1-18 |
| AHU-2 | 2750 | (7) MERV 13 / (7) MERV 8 | (7) MERV 5 | 52 | 54.05 | 60 | 1.93 | 15 | 3.26 | 15 | 10 | 15 | 7500 | 1-17 |
| AHU-3 | 4175 | (12) MERV 8 / (12) MERV 13 | (12) MERV 5 | 75.2 | 78.70 | 90 | 3.85 | 15 | 3.26 | 15 | 10 | 15 | 11500 | 1-17 |
| AHU-4 | 2500 | (7) MERV 13 / (7) MERV 8 | (7) MERV 5 | 52 | 54.05 | 60 | 1.93 | 15 | 3.26 | 15 | 10 | 15 | 7500 | 1-17 |

GENERAL NOTES APPLICABLE TO ALL UNITS:
1. PROVIDE STANDARD ROOF CURB.
2. PROVIDE THROUGH THE BASE ELECTRICAL.
3. PROVIDE UNIT MOUNTED CONVENIENCE OUTLET.
4. E.C. TO PROVIDE DISCONNECT SWITCH.
5. PROVIDE BACNET INTERFACE
6. PROVIDE 0-100% ECONOMIZER
7. PROVIDE OUTSIDE AIRFLOW MONITOR.
8. PROVIDE STAINLESS STEEL DRAIN PAN.
9. PROVIDE DOUBLE WALL CONSTRUCTION.
10. PROVIDE PHASE LOSS MONITORING THROUGH BAS.
11. DIRECT DRIVE FAN AND MOTOR ASSEMBLIES TO BE INTERNALLY ISOLATED FROM THE UNIT CASING WITH 2" DEFLECTION SPRING ISOLATORS.
12. PROVIDE WITH HYDRONIC PIPING HOUSING.
13. PROVIDE 2X2 FAN ARRAY FOR SUPPLY AND EXHAUST.
14. PROVIDE FACTORY MOUNTED VFDS. PROVIDE 1 VFD PER SUPPLY FAN (QTY. 4). PROVIDE 1 VFD TO SERVE ALL EXHAUST FANS (QTY. 1) .
15. PROVIDE WITH SINGLE POINT POWER.
16. PROVIDE WITH UV LIGHTS.
17. PROVIDE WITH 5 YEAR FACTORY WARRENTY
18. SCCR 65K ON AHU NOTED

ACCEPTABLE MANUFACTURERS
A.DAIKIN NORTH AMERICA
B.YORK-A JOHNSON CONTROL COMPANY
C.TRANE
D. AAON

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CA5338(PE)
06/05/2020

CONSULTANT LOGO:
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PROJECT NO. 18068R
100 % COMPLETE

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(479) 899-6370
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CLIENT:
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 2/14/20 | BID PACKAGE 02 - ADD 04 |
| 2 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 3 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: M1.01

MECHANICAL NOTES AND SCHEDULES

PLAN NORTH

TRUE NORTH

## 1 ENLARGED MECHANICAL REQUIREMENTS PLAN LEVEL 01 SECTOR 01

1/8" = 1'-0"


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06/05/2020

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| # | DATE | REVISIONS DESCRIPTION |
|---|---|---|
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

M3.01

MECH REQS PLAN LEVEL 01 SECTOR 01

PLAN NORTH

TRUE NORTH

**1 ENLARGED MECHANICAL REQUIREMENTS PLAN LEVEL 01 SECTOR 02**

1/8" = 1'-0"


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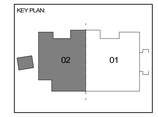
# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

M3.02

MECH REQS PLAN LEVEL 01 SECTOR 02

## MECHANICAL ZONING LEGEND

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAC-1 | MAC-12 | VAV-1.05 | VAV-1.10 | VAV-1.15 | VAV-1.20 | VAV-1.25 | VAV-1.30 | VAV-1.35 | VAV-1.40 | VAV-1.45 | VAV-2.05 | VAV-2.10 | VAV-2.15 | VAV-2.20 | VAV-2.25 | VAV-2.30 | VAV-2.35 |
| MAC-02 | VAV-1.01 | VAV-1.06 | VAV-1.11 | VAV-1.16 | VAV-1.21 | VAV-1.26 | VAV-1.31 | VAV-1.36 | VAV-1.41 | VAV-2.01 | VAV-2.06 | VAV-2.11 | VAV-2.16 | VAV-2.21 | VAV-2.26 | VAV-2.31 | VAV-2.36 |
| MAC-03 | VAV-1.02 | VAV-1.07 | VAV-1.12 | VAV-1.17 | VAV-1.22 | VAV-1.27 | VAV-1.32 | VAV-1.37 | VAV-1.42 | VAV-2.02 | VAV-2.07 | VAV-2.12 | VAV-2.17 | VAV-2.22 | VAV-2.27 | VAV-2.32 | VAV-2.37 |
| MAC-06 | VAV-1.03 | VAV-1.08 | VAV-1.13 | VAV-1.18 | VAV-1.23 | VAV-1.28 | VAV-1.33 | VAV-1.38 | VAV-1.43 | VAV-2.03 | VAV-2.08 | VAV-2.13 | VAV-2.18 | VAV-2.23 | VAV-2.28 | VAV-2.33 | VAV-2.38 |
| MAC-07 | VAV-1.04 | VAV-1.09 | VAV-1.14 | VAV-1.19 | VAV-1.24 | VAV-1.29 | VAV-1.34 | VAV-1.39 | VAV-1.44 | VAV-2.04 | VAV-2.09 | VAV-2.14 | VAV-2.19 | VAV-2.24 | VAV-2.29 | VAV-2.34 | Calculating... |

PLAN NORTH

TRUE NORTH

**1 OVERALL MECHANICAL ZONING PLAN LEVEL 01**

1/8" = 1'-0"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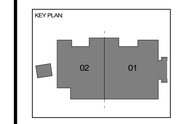
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

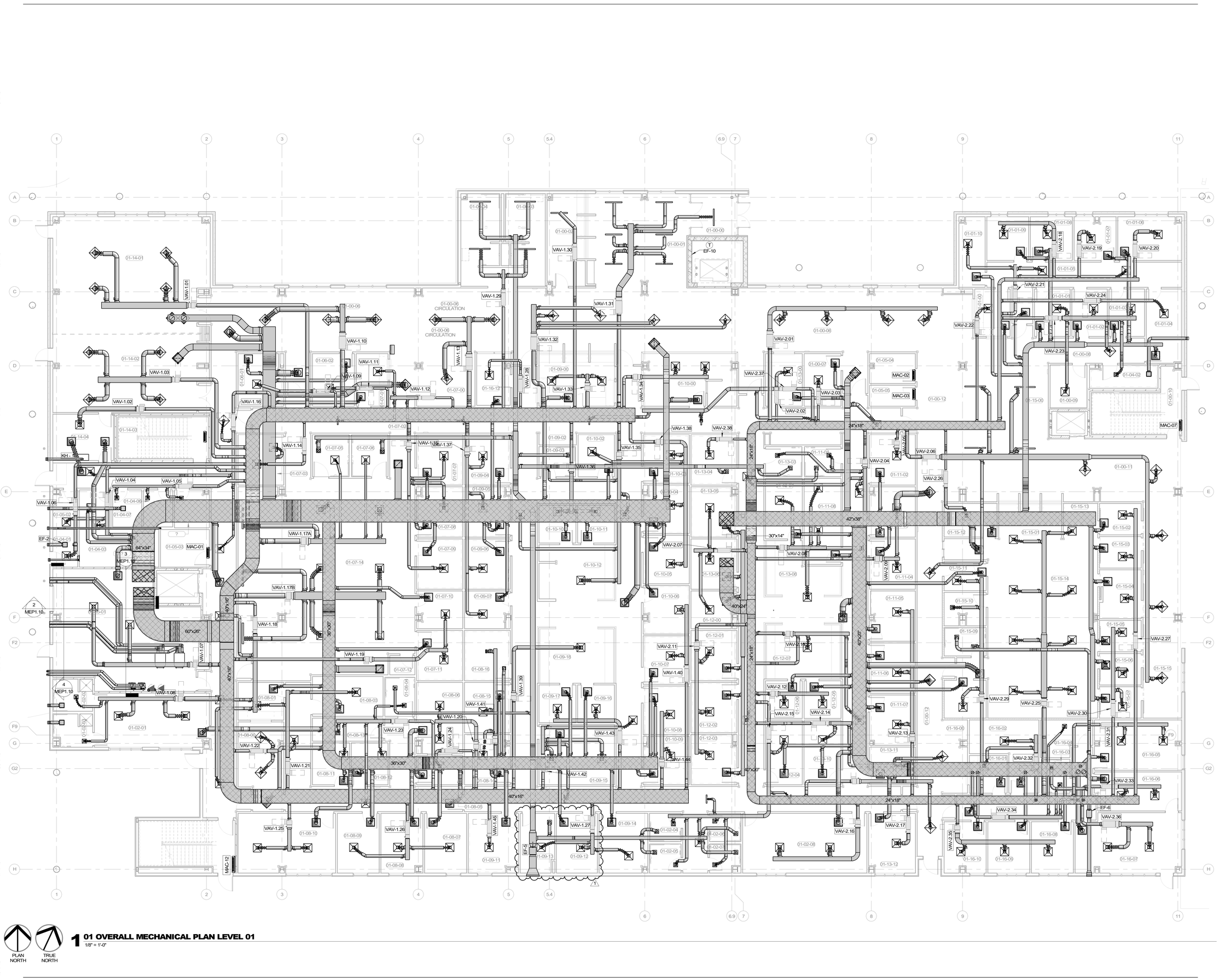
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: M3.05

MECH ZONING PLAN LEVEL 01




## 1 01 OVERALL MECHANICAL PLAN LEVEL 01

1/8" = 1'-0"

PLAN NORTH

TRUE NORTH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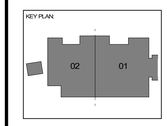
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

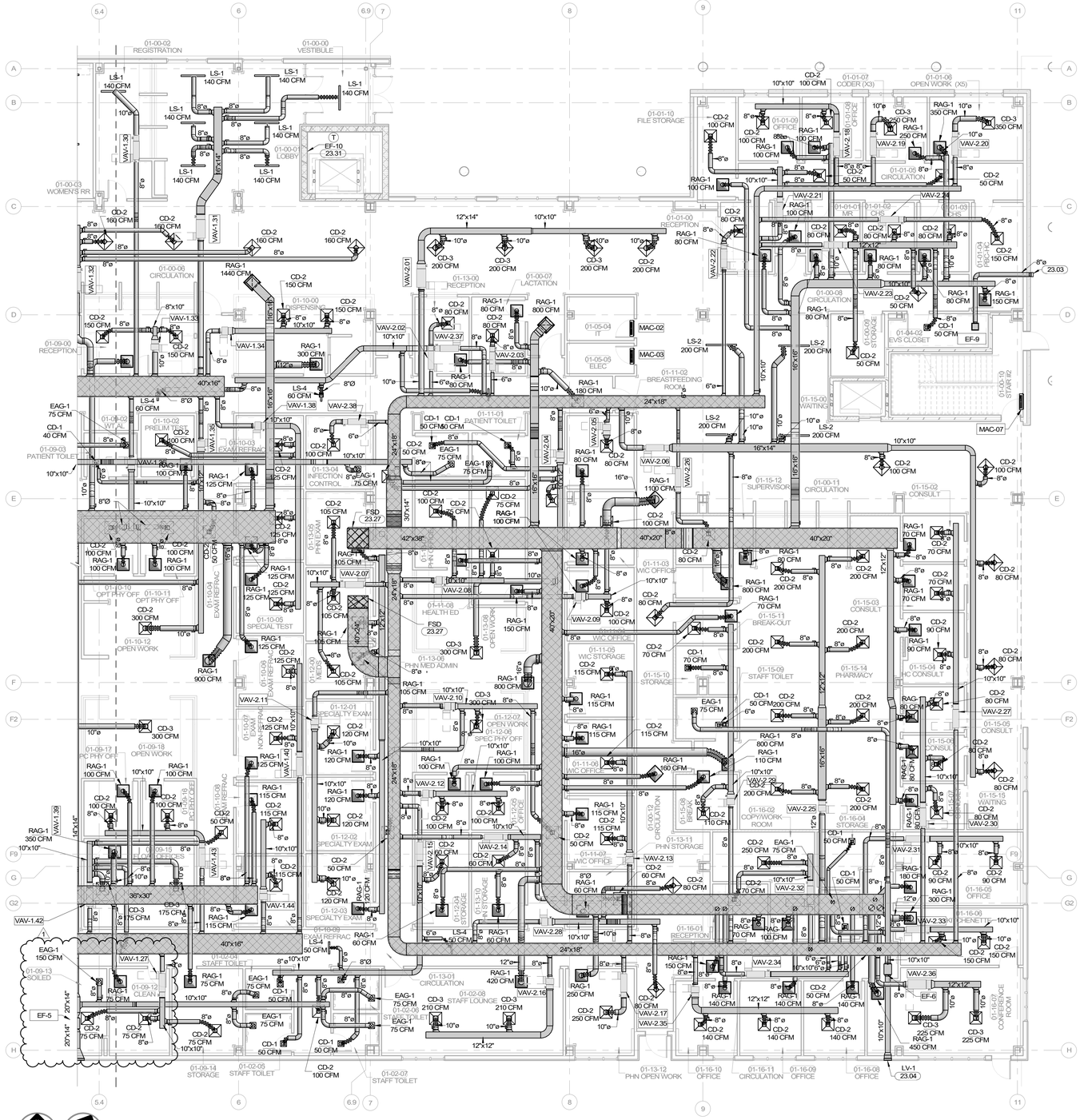
SHEET NUMBER:

M4.01

OVERALL MECH PLAN LEVEL 01

## KEYNOTES

| | |
|---|---|
| 23.03 | ROUTE EXHAUST THRU WALL TO WALL CAP. PROVIDE BIRDSCREEN AND BACKDRAFT DAMPER IN DUCT. |
| 23.04 | MOUNT LOUVER 10'-6" O.C. AFG. |
| 23.27 | PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT FLOOR PENETRATIONS AT BOTTOM OF CHASE TO MAINTAIN 1-2 HOUR RATING AT FLOOR SLAB. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT. REFER TO DETAIL 2-M2.01. |
| 23.31 | INSTALL STG-2 WITH FIRE DAMPER IN ELEVATOR SHAFT. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER. COORDINATE EXACT THERMOSTAT LOCATION FOR EF-10 WITH ELEVATOR SUPPLIER. |




PLAN NORTH / TRUE NORTH

**1 ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 01**
1/8" = 1'-0"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PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER — Shane Wells — 28910 — OKLAHOMA — CERTIFIED

06/05/2020

CONSULTANT LOGO:

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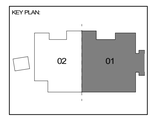
CLIENT:

THE CHEROKEE NATION — TRUST OF THE — SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

M5.01

MECH PLAN LEVEL 01 SECTOR 01

## KEYNOTES

| | |
|---|---|
| 23.02 | ROUTE 4"Ø INSULATED STEEL OR ALUMINUM (RATED FOR DRYER EXHAUST) DRYER DUCT TO EXTERIOR AND TERMINATE WITH MFR WALL CAP AS SHOWN. PROVIDE DRYER WALL BOX BEHIND DRYER. |
| 23.03 | ROUTE EXHAUST THRU WALL TO WALL CAP. PROVIDE BIRDSCREEN AND BACKDRAFT DAMPER IN DUCT. |
| 23.04 | MOUNT LOUVER 10'-6" O.C. AFG. |
| 23.27 | PROVIDE MULTI-SECTION FIRE AND SMOKE DAMPER'S, RUSKIN FSD-60 OR EQUIVALENT, WHERE INDICATED AT FLOOR PENETRATIONS AT BOTTOM OF CHASE TO MAINTAIN 1-2 HOUR RATING AT FLOOR SLAB. MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ON BOTH SIDES OF DUCTS TO ACCOMMODATE FSD ACTUATORS. ACTUATORS SHALL BE TANDEM-MOUNTED (ON SAME SIDE OF DUCT) ONLY WHERE SPACE CONSTRAINTS DO NOT ALLOW ACTUATORS TO BE MOUNTED ON BOTH SIDES OF DUCT. REFER TO DETAIL 2-M2.01. |

1 ENLARGED MECHANICAL PLAN LEVEL 01 SECTOR 02
1/8" = 1'-0"

PLAN NORTH TRUE NORTH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PROFESSIONAL SEAL:
LICENSED PROFESSIONAL ENGINEER Shane Wells 28910 OKLAHOMA
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CONSULTANT LOGO:


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# WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN: 02 01

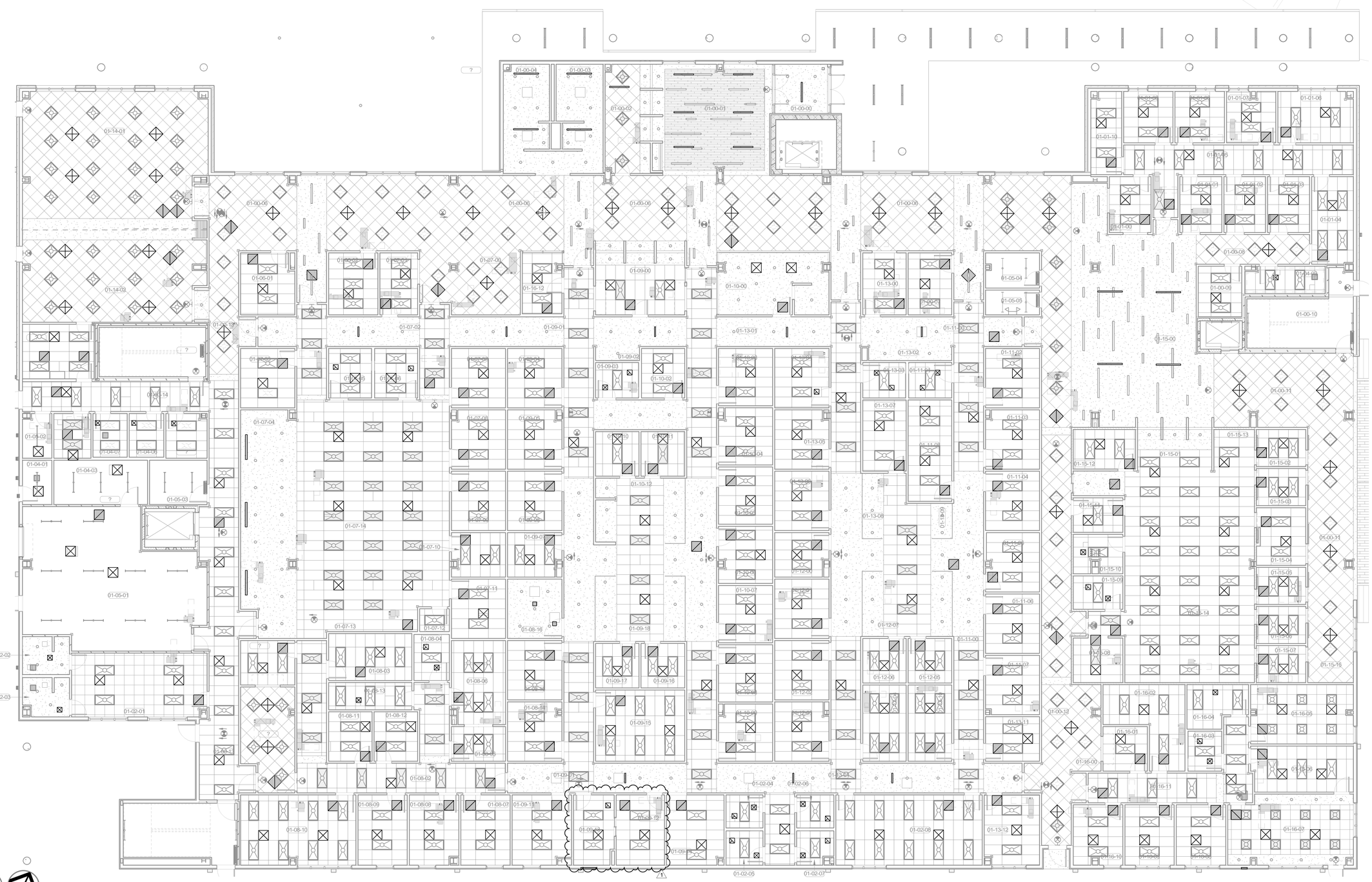
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:
M5.02

MECH PLAN
LEVEL 01
SECTOR 02



PLAN NORTH

TRUE NORTH

**1 OVERALL MECHANICAL CEILING PLAN LEVEL 01**

1/8" = 1'-0"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06/05/2020

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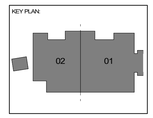
SEAL OF THE CHEROKEE NATION OKLAHOMA
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

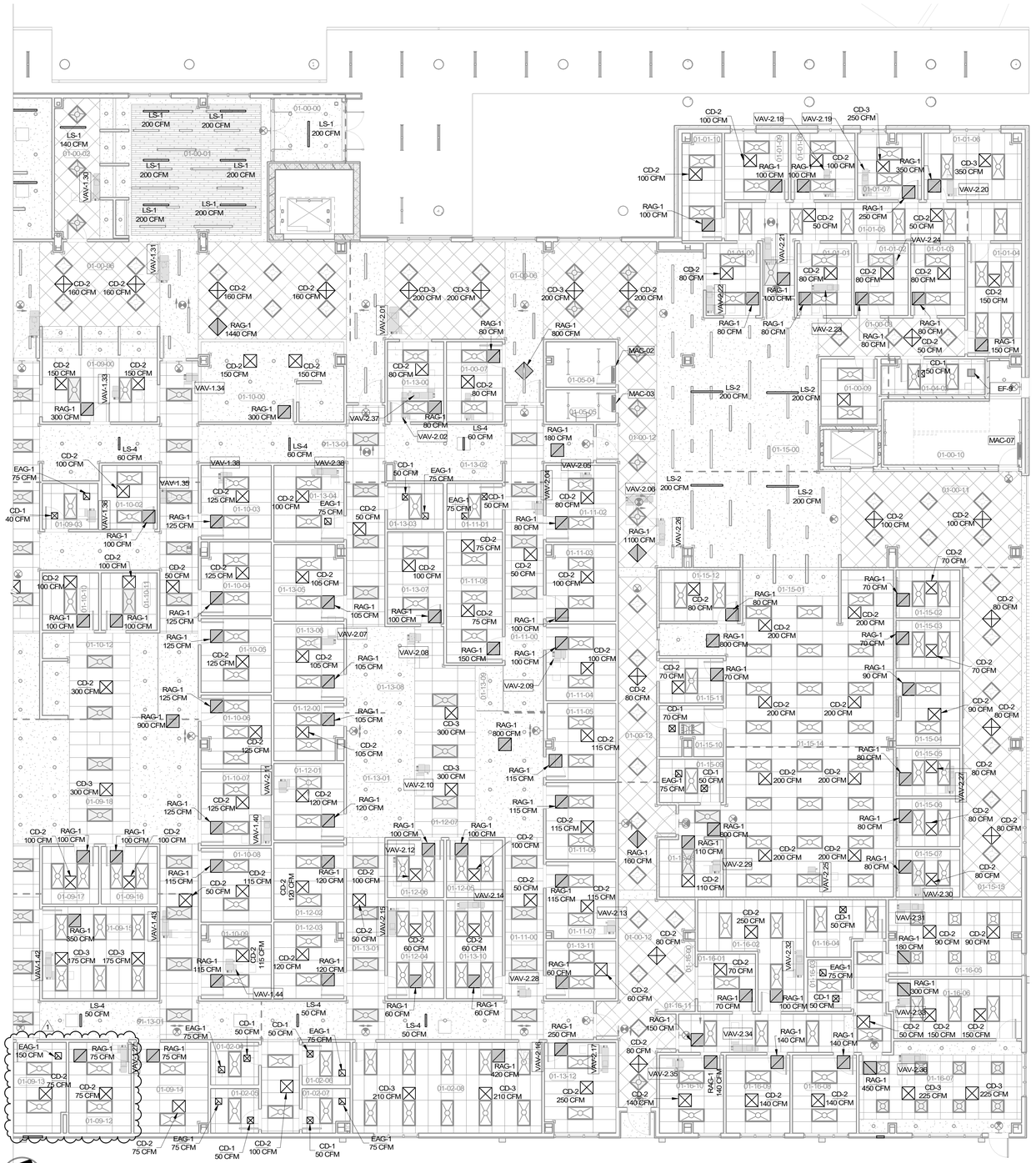
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

M6.01

OVERALL MECH CEILING PLAN LEVEL 01




PLAN NORTH

TRUE NORTH

## 1 ENLARGED MECHANICAL CEILING PLAN LEVEL 01 SECTOR 01

1/8" = 1'-0"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06/05/2020

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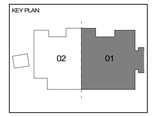
SEAT OF THE TRIBAL GOVT.
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

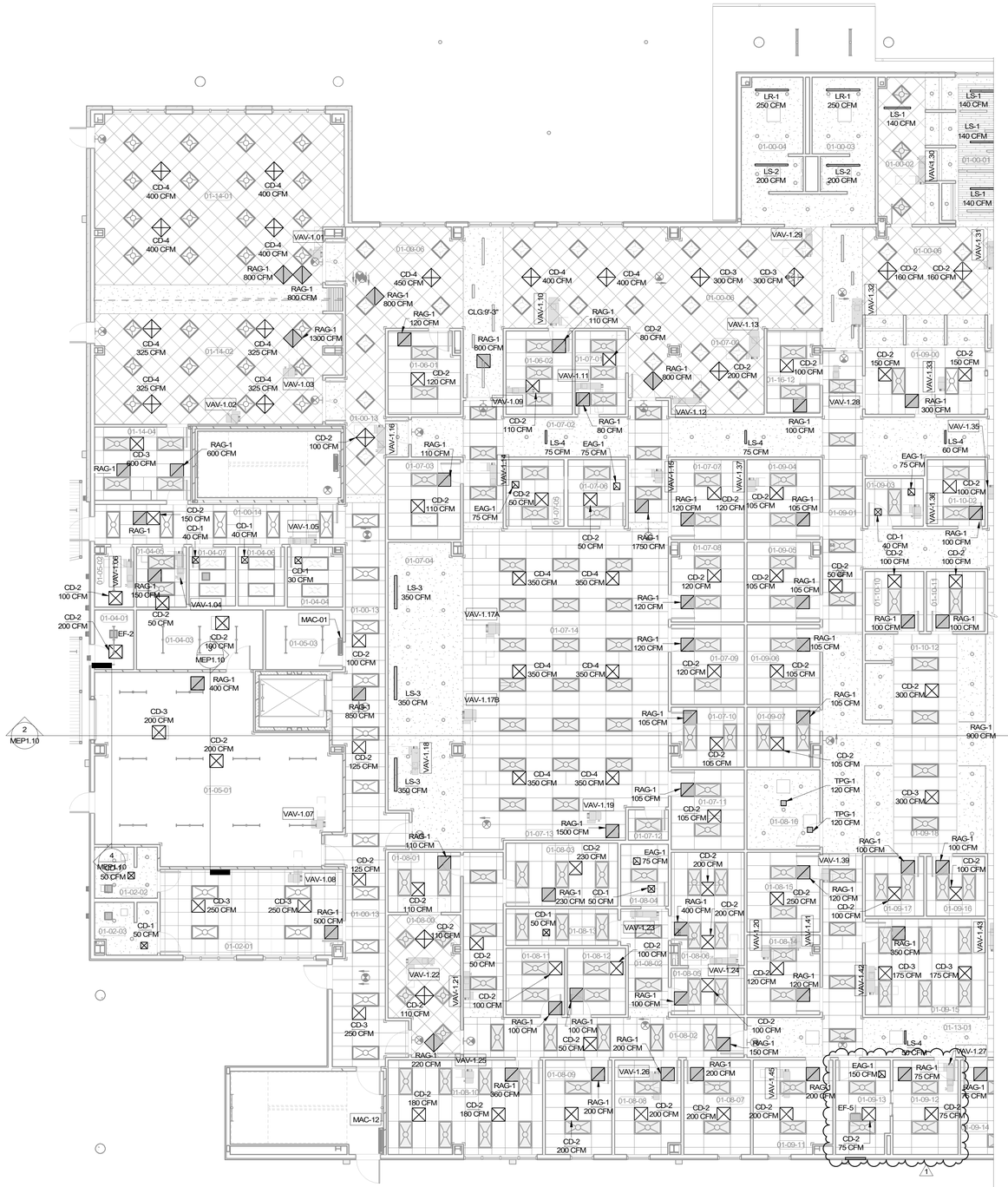
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

M6.02

MECH CEILING PLAN LEVEL 01 SECTOR 01




PLAN NORTH

TRUE NORTH

**1 ENLARGED MECHANICAL CEILING PLAN LEVEL 01 SECTOR 02**

1/8" = 1'-0"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SEPT. 6, 1839

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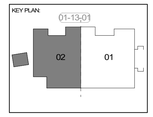



PROJECT PHASE:

BID PACKAGE 02

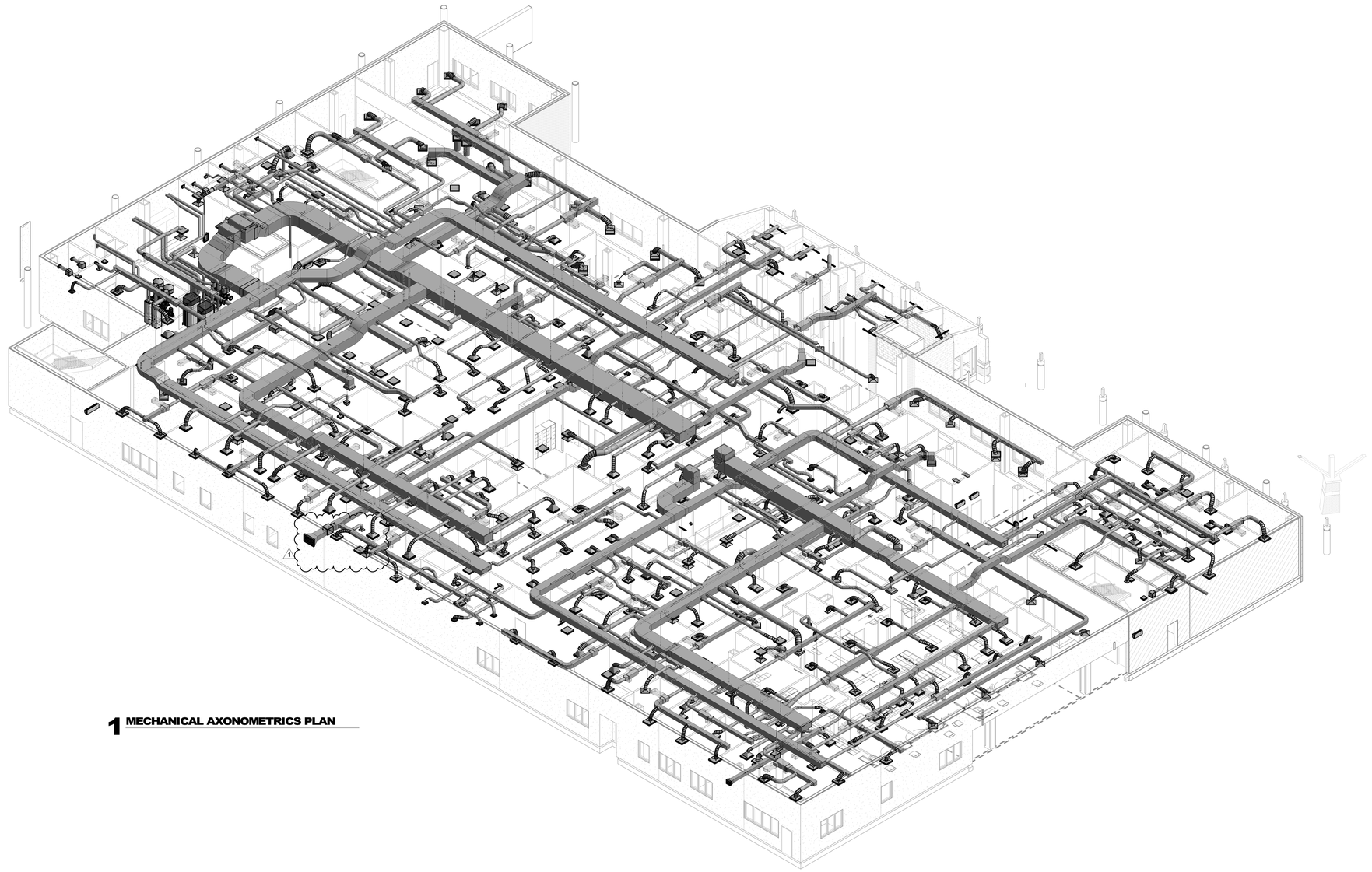
| REVISIONS: | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: M6.03

MECH CEILING PLAN LEVEL 01 SECTOR 02



**1** **MECHANICAL AXONOMETRICS PLAN**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CERTIFIED
06/05/2020

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PROJECT NO. 18068R
100 % COMPLETE


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SEAL OF THE CHEROKEE NATION OKLAHOMA
DEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

M10.01

MECH AXONOMETRIC PLAN LEVEL 01

# GENERAL POWER NOTES

| | |
|---|---|
| 1 | ALL RECEPTACLES SHALL BE GROUNDING TYPE. |
| 2 | ALL RECEPTACLES INSTALLED IN BATHROOMS, OUTDOORS AND KITCHENS SHALL HAVE GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION AS REQUIRED BY THE NATIONAL ELECTRIC CODE. |
| 3 | COORDINATE MECHANICAL EQUIPMENT CONNECTION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. LOCATE FEEDERS, DISCONNECTS AND MAINTENANCE RECEPTACLES SO THAT THEY WILL NOT INTERFERE WITH OPERATION OR MAINTENANCE OF MECHANICAL EQUIPMENT. |
| 4 | PROVIDE POWER TO MECHANICAL, PLUMBING, AND ALL OTHER EQUIPMENT AS REQUIRED FOR PROPER OPERATION, COORDINATE AND VERIFY EACH PIECE OF EQUIPMENTS POWER/CONTROL REQUIRMENTS PRIOR TO ORDERING RELATED ELECTRICAL EQUIPMENT. REFER TO RELATED MECHANICAL, PLUMBING, AND OTHER RELATED DOCUMENTS FOR LOCATIONS OF EQUIPMENT AND REQUIRED CLEARANCES AROUND EQUIPMENT. |
| 5 | COORDINATE EXACT MOUNTING HEIGHT OF EACH ABOVE COUNTER RECEPTACLE WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. |
| 6 | ALL OUTLETS LOCATED IN AREAS REQUIRING GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC-210 SHALL CONSIST OF A GFCI PROTECTED DEVICE, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS. THE GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AS DEFINED IN THE NEC. ALL RECEPTACLES SUPPLIED THROUGH A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE MARKED "GFCI PROTECTED." |
| 7 | COORDINATE EXACT LOCATION OF ALL FLOOR BOXES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. VERIFY EACH TYPE OF FLOOR BOX WITH INTENDED USE AND INSTALLATION, COORDINATE THIS WITH THE CONSTRUCTION OF FLOOR TYPE TO BE INSTALLED IN PRIOR TO ROUGH-IN SO AS TO ENSURE A CLEAN AND PROPER INSTALLATION. FOR INSTALLATIONS IN CONTRETE SLAB WITH OVERLAY OF CARPET, WOOD, AND/OR OTHER SIMILAR MATERIALS. LEAVE A 48"X48" BLOCK OUT WHEN FLOOR IS POURED SO THAT FINAL LOCATION OF FLOOR BOX MAY BE DETERMINED IN THE FIELD. |

# GENERAL LIGHTING NOTES

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|---|---|
| 1 | WHERE RECESSED LIGHTING FIXTURES ARE INDICATED IN A FIRE RATED CEILING, PROVIDE A ONE HOUR RATED "TENT" FOR FIXTURE |
| 2 | PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS, REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF FIXTURES. |
| 3 | CONNECT "UN-SWITCHED" HOT CONDUCTOR FROM CIRCUIT SERVING SPACE LIGHTING TO EACH EXIT SIGN, EMERGENCY LIGHT, AND ANY FIXTURE DESIGNATED AS NIGHT LIGHT SERVING THE SPACE. |
| 4 | COORDINATE ALL DEVICES AND WALL-MOUNTED LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS. SPECIAL ATTENTION AND COORDINATION OF WALL TYPES AND FINISHES IS REQUIRED PRIOR TO ROUGH-IN. EXACT LOCATION OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN TO AVOID INSTALLATION ON SPECIAL ARCHITCTURAL WALL FINISHES. DEVICES NOT PROPERLY COORDINATED WITH THE SPECIAL WALL FINISHES INDICATED IN THE CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER. |
| 5 | ELECTRICAL CONTRATOR SHALL VERIFY CHEVRON DIRECTIONS OF ALL EXIT SIGNS PRIOR TO ORDERING. |
| 7 | COORDINATE AND PROVIDE DIMMER SWITCHES RATED FOR AND COMPATABLE WITH INTENDED LIGHT FIXTURE(S) TO BE CONTROLLED. CIRCUITS CONTROLLED WITH LINE-VOLTAGE DIMMER SWITCHES SHALL NOT SHARE NEUTRAL CONDUCTORS. |
| 8 | FOR GENERATOR FED EXIT AND EMERGENCY LIGHTS: CIRCUITS SHALL HAVE RELAY FUNCTION OVERRIDE LIGHTING CONTROLS, DURING GENERATOR OPERATION. |
| 9 | WHERE SHOWER LIGHT SWITCHES ARE ACCESSIBLE FROM SHOWER, EC SHALL USE NYLON SCREWS IN FACEPLATE. |

# GENERAL LOW VOLTAGE NOTES

| | |
|---|---|
| 1 | PROVIDE BACK BOX AND CONDUIT TO ABOVE THE ACCESSIBLE CEILING AS REQUIRED FOR THE HVAC BUILDING AUTOMATION SYSTEM DEVICES. COORDINATE EXACT LOCATIONS AND OTHER REQUIREMENTS WITH RELATIVE MEP DRAWINGS AND THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN. THERMOSTATS, TEMPERATURE SENSORS, STATIC PRESSURE SENSORS, HUMIDISTATS, ETC. SHALL BE INSTALLED AT THE SAME ELEVATION AS THE LIGHT SWITCHES UNLESS REQUIRED OTHERWISE. |
| 2 | PROVIDE (1) 1/2" CONDUIT, AND 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR ALL THERMOSTAT LOCATIONS INDICATED ON THE MECHANICAL DRAWINGS. ROUTE CONDUIT FROM BOX TO ACCESSIBLE CEILING CAVITY. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. PROVIDE PULL STRING IN ALL EMPTY CONDUIT SYSTEMS. COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. |
| 3 | PROVIDE CABLE TRAY ABOVE CEILING IN ALL CORRIDORS FOR ROUTING OF LOW VOLTAGE CABLES. |
| 4 | PROVIDE 4'WIDE X 4'TALL X 3/4" FIRE RATED, PAINTED CDX PLYWOOD BACKBOARD WHERE SHOWN ON DRAWINGS OR AS REQUIRED FOR TELEPHONE, CATV, ALARM SYSTEM EQUIPMENT, ECT. COORDINATE EXACT LOCATION(S) WITH RESPONSIBLE CONTRACTOR(S). |
| 5 | FURNISH AND INSTALL A TELEPHONE SERVICE CONDUIT(S) PER TELEPHONE SERVICE PROVIDER SPECIFICATIONS. STUB UP AT DESIGNATED EQUIPMENT BOARD. |
| 6 | FURNISH AND INSTALL ONE #6 COPPER INSULATED GROUND WIRE FROM THE ELECTRICAL SERVICE GROUND TO THE TELEPHONE EQUIPMENT BOARD. LEAVE 36" EXTRA WIRE AT FREE END. |
| 7 | FURNISH AND INSTALL A CABLE TV SERVICE CONDUIT(S) PER CABLE TV PROVIDER SPECIFICATIONS. STUB UP AT SERVICE POINT. |
| 8 | REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH CABLE TV SERVICE PROVIDER. |
| 9 | PROVIDE ROUGH-IN OF ALL BACK BOXES, CONDUITS (WITH BUSHINGS AND PULL STRINGS) AND OTHER WIRE WAYS AS REQUIRED FOR LOW VOLTAGE SYSTEMS, COORDINATE ALL REQUIRED LOCATIONS WITH OWNER AND RESPONSIBLE CONTRACTOR(S). |
| 10 | ALL CABLES PULLED IN CONDUIT ROUTED UNDERGROUND SHALL BE WET RATED. |
| 11 | REFER TO SITE UTILITIES PLAN AND COORDINATE ENTIRE INSTALLATION WITH PHONE SERVICE PROVIDER. |

# GENERAL ELECTRICAL NOTES

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|---|---|
| 1 | SPECIAL ATTENTION SHALL BE GIVEN TO ALL RACEWAYS WITHIN FINISHED AREAS WITHOUT CEILINGS AND EXPOSED TO STRUCTURE. IN GENERAL, ALL RACEWAYS SHALL BE CONCEALED WITHIN WALLS, ABOVE STRUCTURE FINISH, OR BELOW FLOOR SLABS WHEN SPECIFIED. WHERE EXPOSED CONDITIONS ARE NECESSARY OR UNAVOIDABLE DUE TO OTHER CONDITIONS, THE BID SHALL INCLUDE ANY REASONABLE MEANS TO MINIMIZE THE AMOUNT OF SURFACE MOUNTED EQUIPMENT. PRIOR TO ROUGH-IN, COORDINATE ALL EXPOSED RACEWAY AND BOX CONDITIONS WITH ARCHITECT PRIOR TO CONSTRUCTION OF WALLS, ROOF DECK, OR FLOOR SLABS. ATTACHMENT TO ROOF DECK OR JOIST WEBBINGS IS NOT ALLOWED, MAINTAIN A MINIMUM SPACING OF 1-1/2" FROM CONDUIT TO ROOF DECK. IN AREAS WHERE EXPOSED RACEWAYS ARE REQUIRED, INSTALL SYSTEMS SQUARE AND TIGHT TO STRUCTURE AND PAINT TO MATCH THE STRUCTURE PER ARCHITECT AND/OR OWNER SPECIFICATIONS. FAILURE TO PROPERLY COORDINATE THE ROUTING OF EXPOSED RACEWAYS MAY RESULT IN RELOCATION OF SUCH RACEWAYS AT NO ADDITIONAL COST TO THE OWNER. |
| 2 | OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. PROVIDE PENETRATION FIRE STOPPING WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479. FIRE STOPPING SHALL NOT BE LESS THAN FIRE RESISTANCE RATING OF CONSTRUCTED PENETRATIONS. |
| 3 | FIELD VERIFY LOCATIONS OF EXISTING ELECTRICAL EQUIPMENT, INCLUDING POWER POLES, TELEPHONE PEDESTALS, OVERHEAD AND UNDERGROUND FEEDERS, METERS, PANELS, DEVICES, ETC. PROVIDE FOR COORDINATION WITH EXISTING EQUIPMENT. |
| 4 | CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SHALL BE SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST LOAD, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST LOAD DOES NOT EXCCED 5%. |
| 5 | ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, STATE LAWS, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE. |
| 6 | THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIAL, AND LABOR TO SATISFY A COMPLETE AND WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED. |
| 7 | CONTRACTOR TO CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT. |
| 8 | ALL ELECTRIC MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND U.L. OR EQUALLY LISTED. |
| 9 | SUBMIT TO THE OWNER CERTIFICATES OF INSPECTIONS IN DUPLICATE FROM AN APPROVED INSPECTION AGENCY UPON COMPLETION. |
| 10 | THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES AS REQUIRED, |
| 11 | THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND QUALIFIED PERSONNEL OR FIRM TO PERFORM ALL REQUIRED TESTS. |
| 12 | NO EQUIPMENT SHALL BE ENERGIZED UNTIL ALL TEST AND ADJUSTMENTS HAVE BEEN MADE. THREE COPIES OF ALL TEST RESULTS SHALL BE DELIVERED TO THE OWNER |
| 13 | JUNCTION BOXES LOCATED ABOVE GRID CEILINGS SHALL BE LOCATED NO GREATER THAN 4-FEET ABOVE THE CEILING IN A LOCATION ACCESSIBLE VIA A LADDER FROM THE ROOM BELOW. |
| 14 | ALL WIRING DEVICE COVERPLATES SHALL INDICATE PANELBOARD AND CIRCUIT SERVING THE DEVICE. UTILIZE CLEAR VINYL (BLACK LETTERING) IDENTIFICATION LABLES MANUFACTURED BY 3M COMPANY (OR APPROVED EQUIVALENT). |
| 15 | THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED. APPLICATION - TYPE OF CONDUIT BURIED IN CONCRETE OR OUTDOORS - PVC WITH RIGID GALVANIZED STEEL ELBOWSSERVICE ENTRANCE - GALVANIZED RIGID STEEL OR SERVICE UTILITY SPECIFICATIONS. |
| 16 | SEISMIC PROTECTION FOR SEISMIC CONCERNS OF ALL BUILDING SYSTEMS INCLUDING BUT NOT LIMITED TO MECHANICAL, PLUMBING, AND ELECTRICAL MUST MEET MINIMUM REQUIREMENTS OF ALL APPLICABLE CODES FOR BUILDINGS' CLASSIFIED SEISMIC USE GROUP AND SEISMIC DESIGN CATEGORY. ANY REQUIREMENTS FOR SEISMIC PROTECTION MEASURES TO BE APPLIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AND WITH MANUFACTURER'S REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.<br><br>THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE TYPE AND LOCATION OF SEISMIC RESTRAINTS REQUIRED FOR THE VARIOUS SYSTEM'S ELEMENTS CONTAINED IN THE CONSTRUCTION DOCUMENTS BASED ON THE RELATED SEISMIC CODE CRITERIA, THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT AND THE DISTANCE FROM STRUCTURE THAT THE ELEMENT WILL BE INSTALLED. IF REQUIRED BY LOCAL, STATE, FEDERAL CODES AND/OR OTHER AUTHORITY HAVING JURISDICTION (AHJ) THE CONTRACTOR SHALL SUBMIT DESCRIPTIVE CATALOG DATA OF SEISMIC RESTRAINTS, SHOP DRAWINGS SHOWING THE TYPES, LOCATIONS AND INSTALLATION DETAILS OF SEISMIC RESTRAINTS AND CALCULATIONS SHOWING THAT THE SEISMIC RESTRAINTS MEET THE SEISMIC REQUIREMENTS TO THE LOCAL AHJ FOR REVIEW AND APPROVAL. CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS. CALCULATIONS SHALL INCLUDE DEAD LOADS, STATIC SEISMIC LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT AND STRUCTURE. |
| 17 | UNLESS NOTED OTHERWISE PROVIDE MINIMUM #8 AWG CONDUCTORS IN 1" CONDUIT(S) FOR ALL UNDERGROUND SITE POWER AND LIGHTING CIRCUITS. INCREASE CONDUCTOR AND RELATED CONDUIT SIZE AS NOTED OR OTHERWISE REQUIRED TO LIMIT VOLTAGE DROP TO LESS THAN 5% FOR THE ENTIRE LENGTH OF SYSTEM. |
| 18 | UNDERGROUND UTILITIES/FEEDERS/BRANCH CIRCUITS/ETC. SHALL NOT BE ROUTED THROUGH OR WITHIN 25 FEET OF ANY AREAS DEDICATED FOR FUTURE BUILDING ADDITION. |
| 19 | DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW ALL GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. |
| 20 | INSTALL EQUIPMENT IN A MANNER TO REMAIN ACCESSIBLE WITH REASONABLE MEANS BY THE OWNER FOLLOWING COMPLETION OF WORK. SPECIAL ATTENTION AND ADDITIONAL COORDINATION IS EXPECTED IN AREAS OF THE BUILDING WHERE THE CEILING AND STRUCTURE HEIGHTS HAVE SIGNIFICANT DIFFERENT ELEVATIONS. EQUIPMENT REQUIRING POSSIBLE FUTURE ACCESS SHALL BE INSTALLED SUCH THAT IT MAY BE SAFELY ACCESSED FROM A STANDARD STEP LADDER OR PERSONNEL LIFT SUITABLE FOR THE LOCATION AND CEILING HEIGHT, WITHOUT REMOVING OR DAMAGING THE CEILING GRID STRUCTURE. |
| 21 | COORDINATE ALL CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER DISCIPLINES, WITH CEILING, AND STRUCTURE. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN. |
| 22 | ROOM NAMES/NUMBERS SHOWN IN PANELBOARD SCHEDULES ARE PER ARCHITECTURAL FLOOR PLANS. CONTRACTOR SHALL PROVIDE FINALIZED PANELBOARD SCHEDULES AT COMPLETION OF PROJECT WITH OWNER PROVIDED ROOM NAMES/NUMBERS. |
| 23 | THE CONTRACTOR SHALL FURNISH AND INSTALL ALL GROUNDING SYSTEMS (AS REQUIRED) IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. |
| 24 | ALL ELECTRICAL WORK SHALL BE COORDINATED WITH THE MECHANICAL WORK AS CALLED FOR IN MECHANICAL SPECIFICATIONS AND PLANS. |
| 25 | PROVIDE A MINIMUM OF (3) SPARE 1" CONDUITS FROM RECESSED PANELBOARD, UP TO ACCESSIBLE CEILING SPACE. |
| 26 | FIELD MOUNTED DEVICES SUCH AS SWITCHES, MOTOR STARTERS, RECEPTACLES, ETC., ARE SHOWN IN THEIR APPROXIMATE LOCATION. SWITCH MOUNTING HEIGHT SHALL BE 48" ABOVE FINISHED FLOOR AND RECEPTACLE MOUNTING HEIGHT SHALL BE 18" ABOVE FINISHED FLOOR UON. REFER TO THE TYPICAL MOUNTING HEIGHT DETAIL. |
| 27 | PROVIDE EMT WITH PROPERLY INSTALLED COMPRESSION OR SET-SCREW TYPE FITTINGS AND AN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR ALL RACEWAYS SERVING EXAM ROOMS, LABS, AND OTHER RELATED ROOMS TO COMPLY WITH NEC, HEALTHCARE FACILITIES. |
| 28 | DESIGNATED SPARE CIRCUIT BREAKERS SHALL BE PLACED IN THE OFF POSITION |
| 29 | PROVIDE SPD AS REQUIRED FOR OWNER PROVIDED EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ACCESS CONTROL SYSTEM, COMMUNICATION SYSTEM, DATA SYSTEM, SECURITY SYSTEM. |

# ABBREVIATIONS

| | | | |
|---|---|---|---|
| AC | ABOVE COUNTER | IG | ISOLATED GROUND |
| AFF | ABOVE FINISHED FLOOR | MCC | MOTOR CONTROL CENTER |
| CB | CIRCUIT BREAKER | NEC | NATIONAL ELECTRICAL CODE |
| E | EXISTING | NEMA | NATIONAL ELECTRICAL MANUFACTURERS ASSOC. |
| EC | ELECTRICAL CONTRACTOR | NIC | NOT IN CONTRACT |
| EP | EXPLOSION PROOF | NL | NIGHT LIGHT |
| GFI | GROUND FAULT CIRCUIT INTERRUPTER | UG | UNDERGROUND |
| GR | GROUND | UON | UNLESS OTHERWISE NOTED |
| HP | HORSE POWER | WP | WEATHERPROOF |
| | | WR | WEATHER RESISTANT |

# WIRING

- WIRING CONCEALED IN CEILING OR WALLS UON. ALL WIRE IS NUMBER #12 AWG MINIMUM.
- EXPOSED RACEWAY.
- UNDERGROUND RACEWAY; TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.

# SWITCHES

$* SWITCH MOUNTED AT +48"; SINGLE POLE UON. REF SCHEDULE ON SHEET E2.01 FOR ALL LIGHTING DEVICE TYPES.
LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED.

* ABBREVIATIONS FOR SWITCH

| | |
|---|---|
| 2 | DOUBLE POLE SWITCH |
| 3 | 3-WAY SWITCH |
| 4 | 4-WAY SWITCH |
| D | DIMMER SWITCH (SHALL BE COMPATABLE WITH FIXTURE BEING DIMMED) |
| F | FAN SWITCH: DUAL OPERATION WITH DIMMER |
| K | KEYED SWITCH |
| M | MOTOR RATED SWITCH |
| OS | DUAL TECHNOLOGY OCCUPANCY SENSOR |
| V | VOLUME CONTROL SWITCH |

OS CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.

# RECEPTACLES

- DUPLEX RECEPTACLE (NEMA 5-20R)
- DUPLEX RECEPTACLE (NEMA 5-20R); MOUNTED 8" ABOVE COUNTERTOP.
- U (ALL RECEPTACLE TYPES) WITH USB CHARGING PORTS
- GFI DUPLEX RECEPTACLE (NEMA 5-20R), SELF-TEST TYPE
- GFI DUPLEX RECEPTACLE (NEMA 5-20R), SELF-TEST TYPE; MOUNTED 8" ABOVE COUNTERTOP.
- QUADRUPLEX RECEPTACLE (TWO NEMA 5-20R)
- SPECIAL RECEPTACLE: VERIFY NEMA TYPE WITH MANUFACTURER (2)
- FLOOR BOX WITH DATA: LEGRAND WIREMOLD SERIES RFB4E-OG OR RFB6E-OG WITH EVOLUTION COVER. ROUTE (2)1" FOR DATA FROM FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. EACH PHONE/DATA BOX SHALL HAVE (2) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: LEGRAND 6AT SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON. FLOOR BOX BELOW GRADE WILL REQUIRE TRANSITION POINT.
- TV TELEVISION: PROVIDE HUBBELL NSAV62M JUNCTION BOX (OR EQUAL) WITH 1/2" CONDUIT FOR POWER AND 1" CONDUIT (WITH PULL STRINGS) FOR A/V ROUTED TO ACCESSIBLE CEILING SPACE. EACH PHONE/DATA BOX SHALL HAVE (1) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. PROVIDE CONNECTIONS FOR POWER, DATA, COAX, AND HDMI. MOUNT AT +60" AFF UNO. CONFIRM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.
- SINGLE RECEPTACLE (NEMA 5-20R)
- SPLIT WIRED DUPLEX RECEPTACLE (NEMA 5-20R)
- DIRECT EQUIPMENT CONNECTION: VERIFY CONNECTION DETAILS WITH MANUFACTURER
- FLOOR BOX: HUBBEL 3SFBSS WITH 3SFBC COVER. EC SHALL ROUTE A 1"C FOR FLOOR BOX TO NEAREST ACCESSIBLE CEILING SPACE. ON FLOOR LEVELS WITH ACCESSIBLE SPACE BELOW, USE POKE-THRU STYLE FLOOR BOXES: HUBBELL PT2X2 SERIES. SEE ARCHITECTURAL PLANS FOR LOCATION UON. FLOOR BOX BELOW GRADE WILL REQUIRE TRANSITION POINT.
- CEILING MOUNTED RECEPTACLE(NEMA 5-20R)

# PANELS AND MISC.

- LIGHT OR POWER PANEL
- J 4x4 JUNCTION BOX.
- EQUIPMENT DISCONNECT: INTERIOR DISCONNECTS SHALL BE NEMA 1 TYPE. EXTERIOR DISCONNECTS SHALL BE NEMA 3R TYPE. SIZE AS INDICATED IN THE PLANS AND PER NAMEPLATE RATING. (2)
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT 8" ABOVE COUNTER (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. EACH PHONE/DATA BOX SHALL HAVE (2) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. VERIFY NUMBER OF DROPS WITH OWNER.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT +18" (UON) WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. EACH PHONE/DATA BOX SHALL HAVE (2) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. PROVIDE PLASTIC BUSHINGS ON EXPOSED CONDUIT ENDS. VERIFY NUMBER OF DROPS WITH OWNER.
- PHONE/DATA: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX IN CEILING. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. EACH PHONE/DATA BOX SHALL HAVE (2) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. VERIFY NUMBER OF DROPS WITH OWNER.
- TV TELEVISION: PROVIDE 4"X4" JUNCTION BOX WITH (2) 3/4" CONDUITS (WITH PULL STRINGS) ROUTED TO ACCESSIBLE CEILING SPACE. EACH PHONE/DATA BOX SHALL HAVE (1) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. CONFIRM HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN. VERIFY NUMBER OF DROPS WITH OWNER.
- S CEILING MOUNTED SPEAKER
- CR CARD READER: REFER TO SYSTEM PLANS AND SPECIFICATIONS. AT EACH DOOR WITH A CARD READER PROVIDE ALL ELECTRICAL CONNECTIONS FOR DOOR HARDWARE SYSTEMS AS REQUIRED TO MAKE A COMPLETE OPERATIONAL SYSTEM. WHERE REQUIRED, BACK TO BACK 2"X4" BOXES ARE ALLOWED FOR CARD READER AND PUSH TO EXIT SWITCH. PROVIDE POWER TO THE LOCK SYSTEM IN THE I.T. ROOM WHERE NEEDED BY CONTRACTOR INSTALLING SYSTEM. (2)
- WAP WIRELESS ACCESS POINT: PROVIDE 4"X4", 30-1/4 CUBIC INCH OUTLET BOX AT ACCESSIBLE CEILING SPACE. PROVIDE SINGLE GANG MUD RING WITH BLANK COVER. EACH WAP BOX SHALL HAVE (2) CAT6 CABLE HOME RUNS TO THE NEAREST I.T. ROOM REFER THE POWER PLANS AND SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.


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06/05/2020

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WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

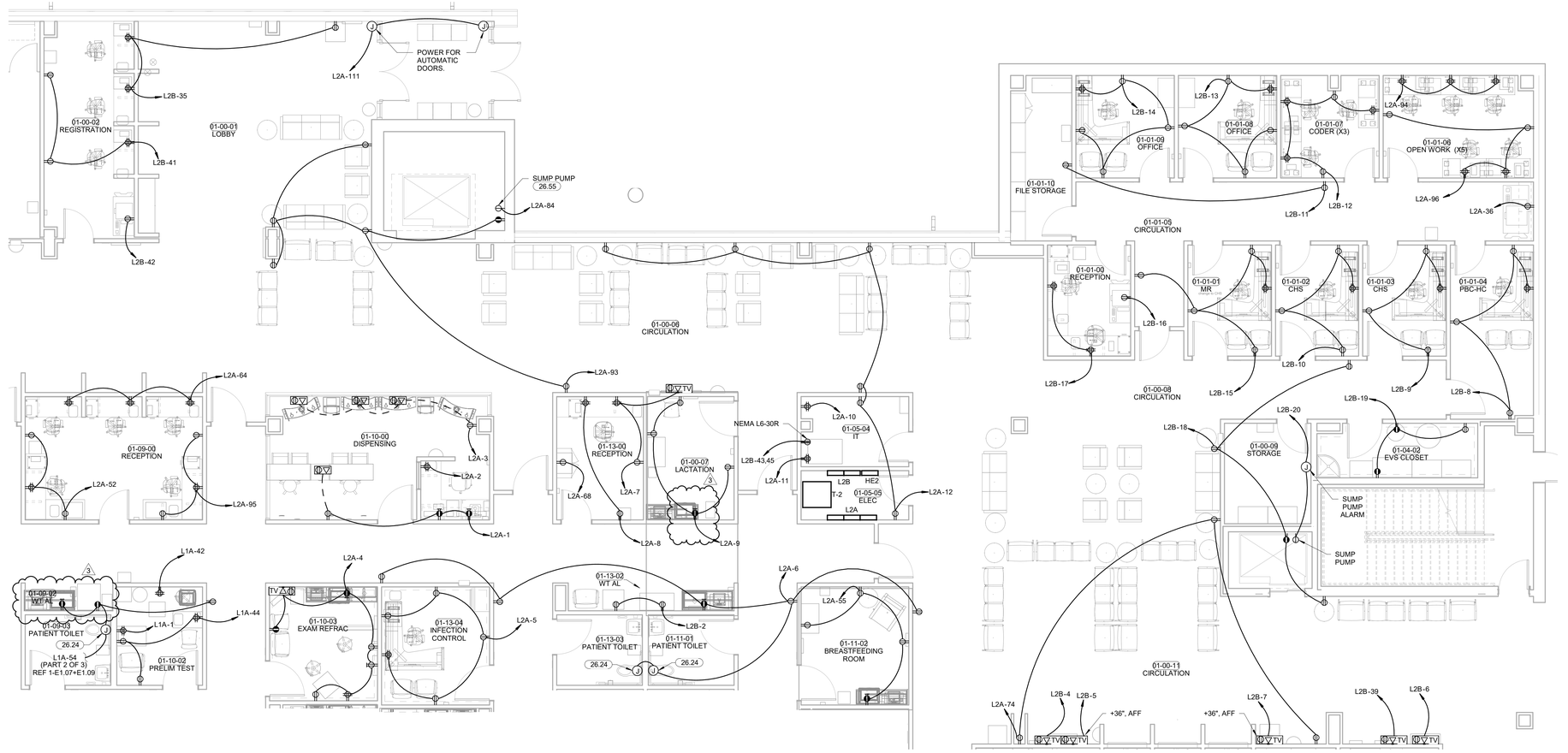
SHEET NUMBER:
E1.01

ELECTRICAL NOTES AND LEGEND

3" =1'-0"
1 1/2" =1'-0"
1" =1'-0"
3/4" =1'-0"
1/2" =1'-0"
3/8" =1'-0"
1/4" =1'-0"
1/8" =1'-0"

| KEYNOTES | |
|---|---|
| 26.24 | MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS. |
| 26.55 | COORDINATE SUMP PUMP ALARM LOCATION WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. |

| POWER PLAN NOTES |
|---|
| COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN. |
| E.C. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED. |
| GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES SHALL COMPLY WITH NEC 517.13. |




PLAN NORTH

TRUE NORTH

**1 POWER PLAN LEVEL 01 SECTOR 01 NORTH**

3/16" = 1'-0"


James R. Childers Architect, Inc.

45 South 4th Street
Fort Smith, AR 72901
479-783-2480
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PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER
Robert Brandon Pinkerton
23042
OKLAHOMA
(PRELIMINARY)
06/05/2020

CONSULTANT LOGO:

HP ENGINEERING
PROJECT NO. 18068R
100 % COMPLETE

HP ENGINEERING INC.
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SUITE 120
ROGERS, AR 72758
(479) 899-6370
www.hpengineeringinc.com

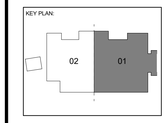
CLIENT:

TRIBAL SEAL OF THE CHEROKEE NATION OKLAHOMA SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 3 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: E1.06

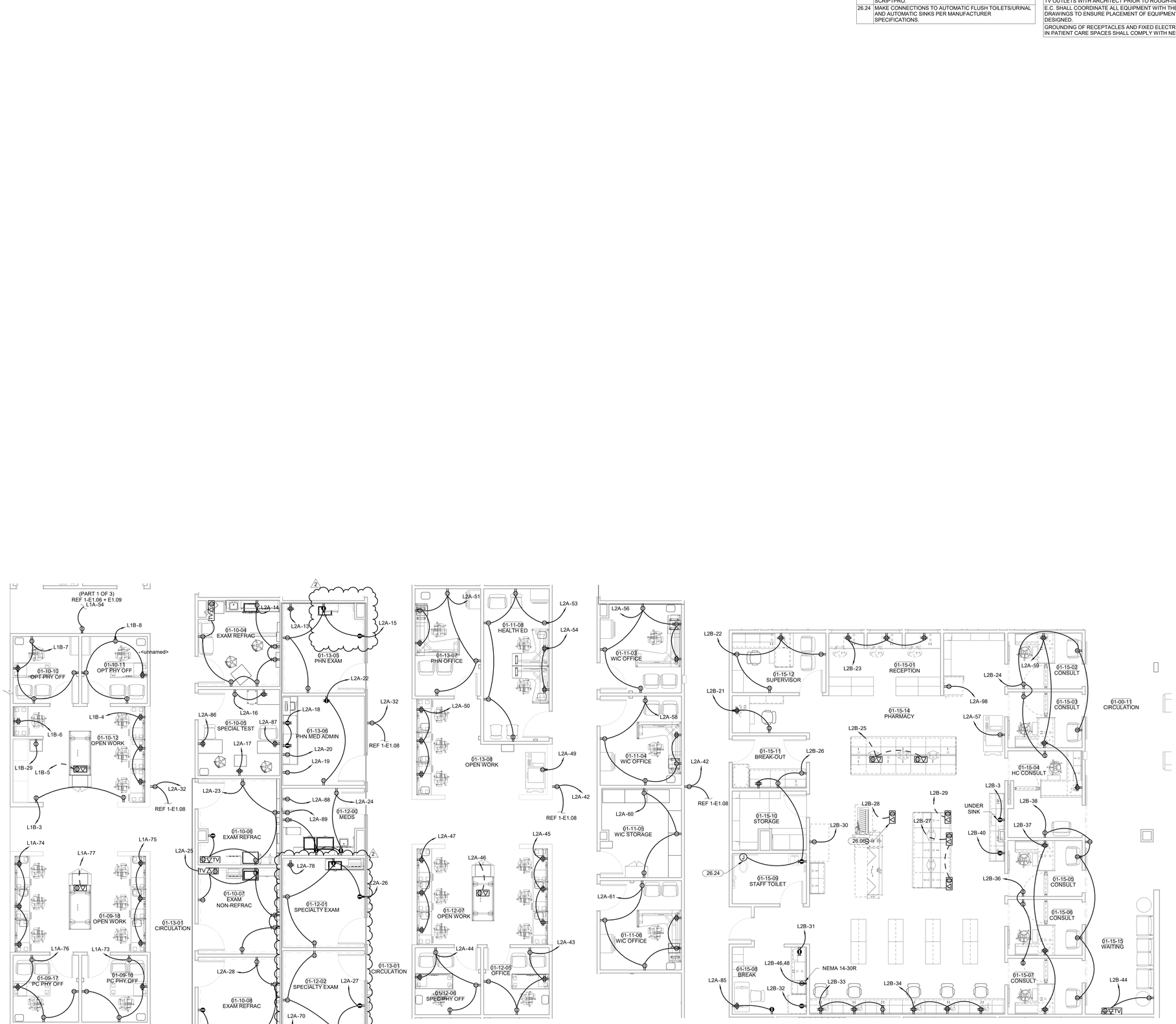
POWER PLAN LEVEL 01 SECTOR 01 N

## KEYNOTES

| | |
|---|---|
| 26.06 | CORDINATE POWER REQUIREMENT WITH SP 200 FROM SCRIPTPRO. |
| 26.24 | MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS. |

## POWER PLAN NOTES

| |
|---|
| COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN. |
| E.C. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED. |
| GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES SHALL COMPLY WITH NEC 517.13. |




**1 POWER PLAN LEVEL 01 SECTOR 01 - CENTER**
3/16" = 1'-0"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Brandon
Pinkerton
23042
OKLAHOMA
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06/05/2020

CONSULTANT LOGO:

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CLIENT:

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ADD 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

E1.07

POWER PLAN
LEVEL 01
SECTOR 01 CTR

## KEYNOTES

| | |
|---|---|
| 26.24 | MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS. |

## POWER PLAN NOTES

| |
|---|
| COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN. |
| E.C. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED. |
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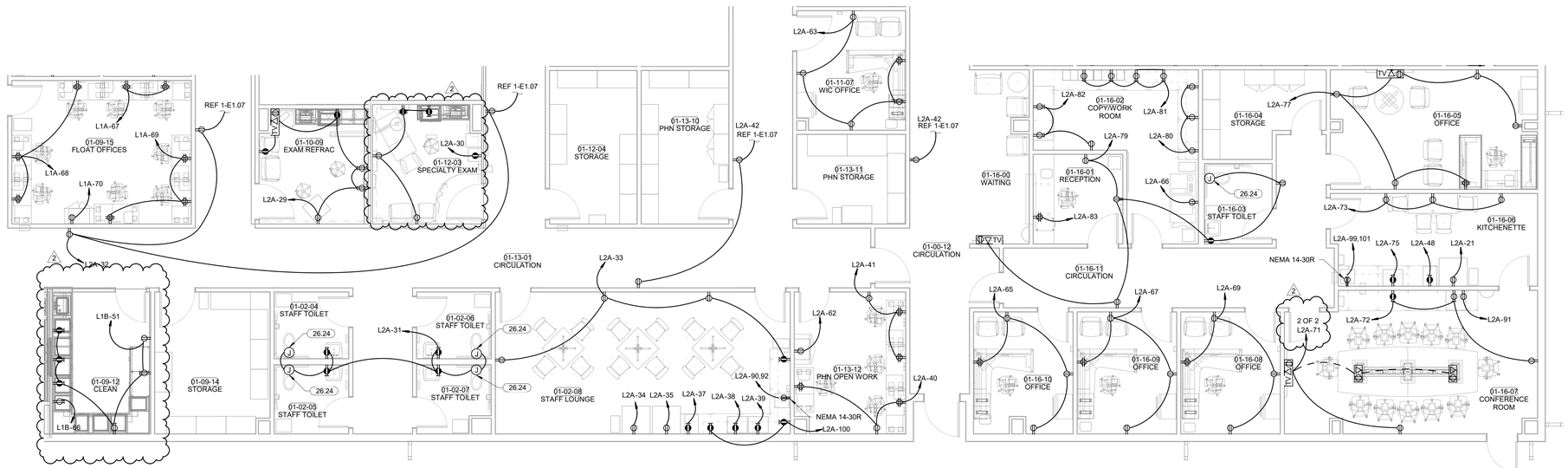


PLAN NORTH

TRUE NORTH

**1 POWER PLAN LEVEL 01 SECTOR 01 - SOUTH**

3/16" = 1'-0"


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OKLAHOMA
(CERTIFICATE)
06/05/2020

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SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

E1.08

POWER PLAN LEVEL 01 SECTOR 01 S

## KEYNOTES

| | |
|---|---|
| 26.07 | MOUNT PANELS AND DISCONNECTS ON UNISTRUT, E.C. TO FABRICATE IN FIELD. COORDINATE EXACT LOCATION AND CLEARANCES WITH PLUMBING AND MECHANICAL CONTRACTORS PRIOR TO ROUGH-IN |
| 26.24 | MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS. |
| 26.55 | COORDINATE SUMP PUMP ALARM LOCATION WITH OWNER AND MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. |
| 26.57 | REFER TO SHEET E.05 DETAIL 4 FOR SHUT TRIP CONTROL DIAGRAM. |

## POWER PLAN NOTES

COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.

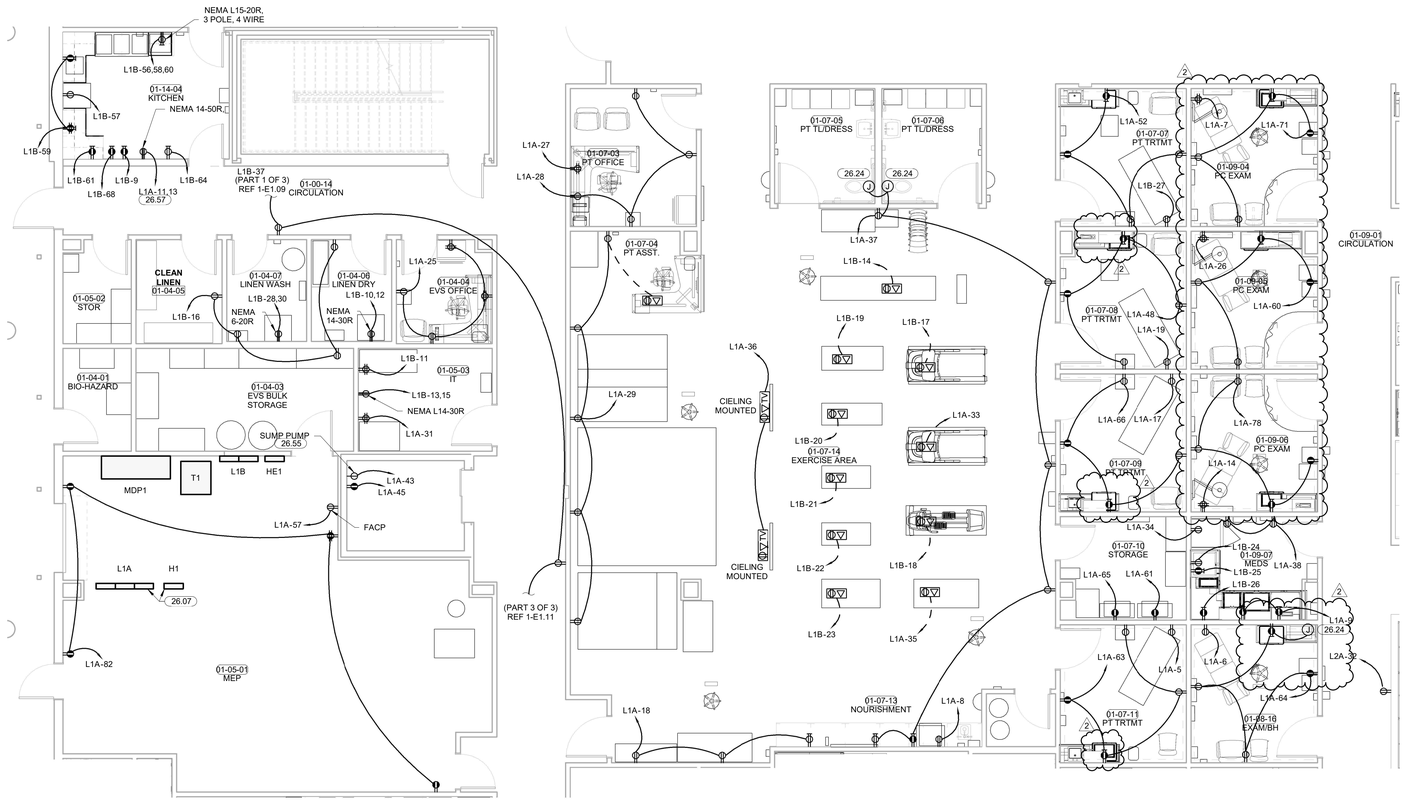
E.C. SHALL COORDINATE ALL EQUIPMENT WITH THE ILO DESIGN DRAWINGS TO ENSURE PLACEMENT OF EQUIPMENT WORKS AS DESIGNED.

GROUNDING OF RECEPTACLES AND FIXED ELECTRICAL EQUIPMENT IN PATIENT CARE SPACES SHALL COMPLY WITH NEC 517.13.

## KITCHEN POWER NOTES

INTERLOCK DEVICES LOCATED UNDER KITCHEN HOOD WITH FIRE SUPPRESSION SYSTEM. DEVICES AND GAS CONNECTIONS SHALL BE AUTOMATICALLY SHUTOFF IN THE EVENT OF FIRE SUPPRESSION SYSTEM ACTIVATION. PROVIDE SHUNT-TRIP CAPABILITY FOR DEVICES LOCATED UNDER HOOD, EVEN IF NOT SPECIFICALLY INDICATED IN THE DRAWINGS.

INTERLOCK HOOD EXHAUST FAN, SUPPPLY FAN AND LIGHTS WITH FIRE SUPPRESSION SYSTEM. DEVICES SHALL BE AUTOMATICALLY SHUTOFF IF FIRE SUPPRESSION SYSTEM IS ACTIVATED.




1 **POWER PLAN LEVEL 01 SECTOR 02 - CENTER**
3/16" = 1'-0"

PLAN NORTH / TRUE NORTH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(PRELIMINARY)
06/05/2020

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CLIENT:

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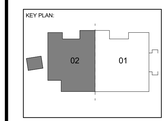
SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

E1.10

POWER PLAN LEVEL 01 SECTOR 02 CTR

## KEYNOTES

| | |
|---|---|
| 26.24 | MAKE CONNECTIONS TO AUTOMATIC FLUSH TOILETS/URINAL AND AUTOMATIC SINKS PER MANUFACTURER SPECIFICATIONS. |

## POWER PLAN NOTES

| |
|---|
| COORDINATE MOUNTING HEIGHTS FOR POWER ASSOCIATED WITH TV OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN. |
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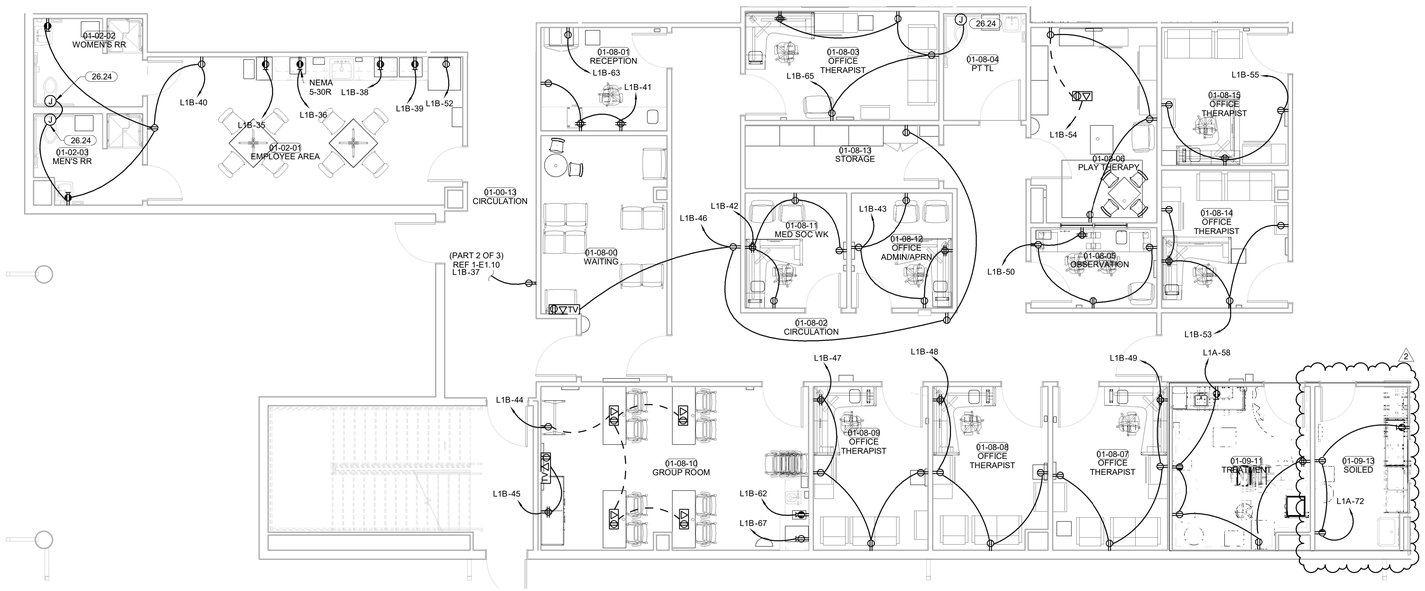


PLAN NORTH

TRUE NORTH

**1 POWER PLAN LEVEL 01 SECTOR 02 - SOUTH**

3/16" = 1'-0"


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(NOT VALID UNLESS SIGNED)

06/05/2020

CONSULTANT LOGO:

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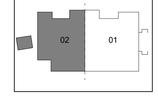
CLIENT:

TRIBAL SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

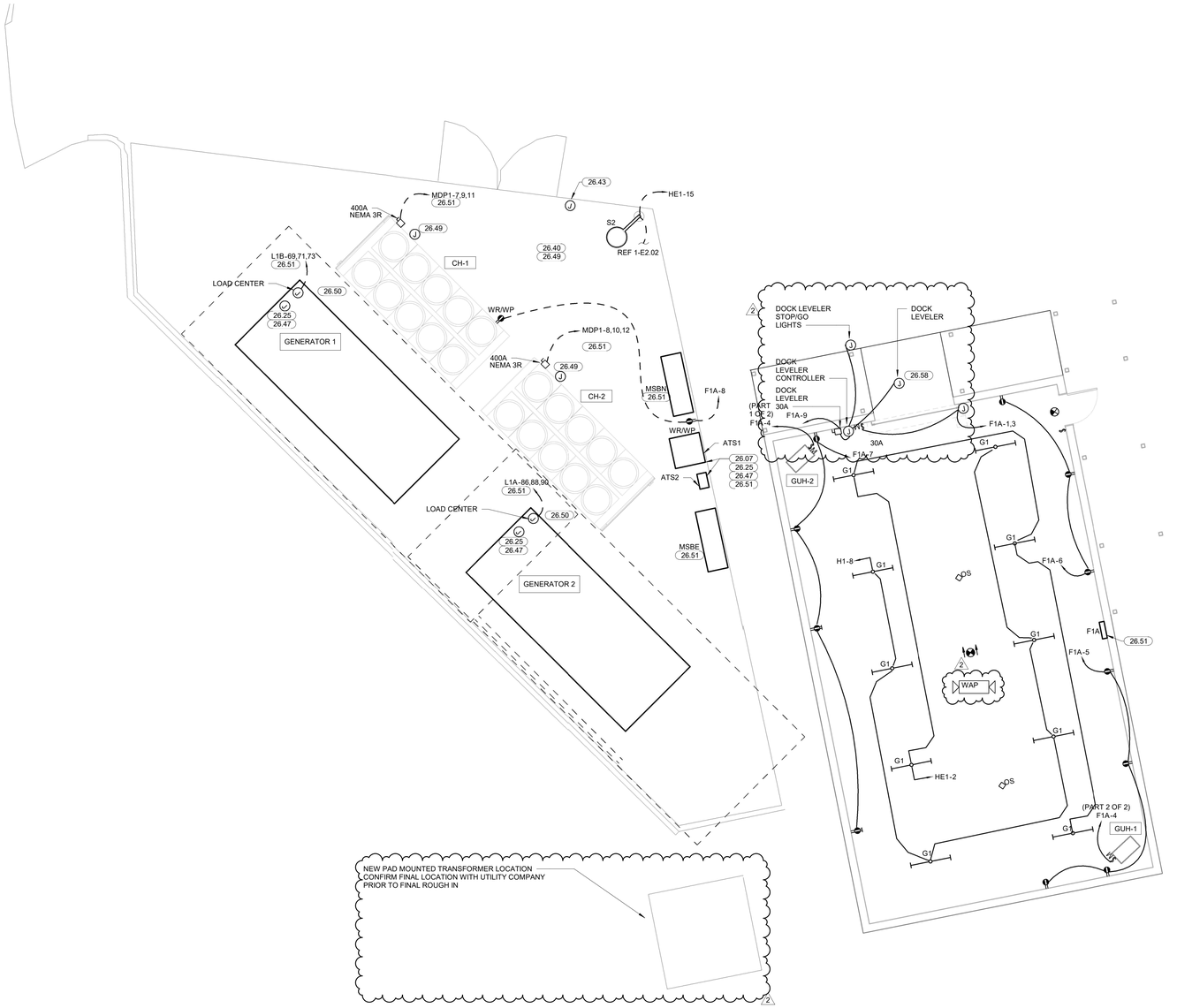
| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ADD 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

SHEET NUMBER:

E1.11

POWER PLAN
LEVEL 01
SECTOR 02 S




PLAN NORTH

TRUE NORTH

**1 MAINTENANCE/ MECHANICAL YARD POWER**

3/16" = 1'-0"

## KEYNOTES

| | |
|---|---|
| 26.07 | MOUNT PANELS AND DISCONNECTS ON UNISTRUT, E.C. TO FABRICATE IN FIELD. COORDINATE EXACT LOCATION AND CLEARANCES WITH PLUMBING AND MECHANICAL CONTRACTORS PRIOR TO ROUGH-IN |
| 26.25 | PROVIDE 1" UNDERGROUND CONDUIT TO ACCESSIBLE CEILING SPACE IN MAIN BUILDING FOR GENERATOR CONTROLS. |
| 26.40 | PROVIDE 2-2" CONDUITS AND ASSOCIATED CONTROL CONDUITS FOR FUTURE CHILLER, COORDINATE STUB UP LOCATION WITH HYDRONIC PIPE LOCATIONS. |
| 26.43 | GENERATOR ESTOP LOCATION, CONDUITS AND CONDUCTORS SHALL BE ROUTED FROM GENERATORS TO THIS LOCATION. CONFIRM ALL REQUIREMENTS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH IN. |
| 26.47 | PROVIDE CONDUIT AND CONTROL WIRES BETWEEN GENERATOR, ATS, AND ANNUNCIATOR LOCATIONS. ALL CONTROLS AND REQUIREMENTS SHALL BE COORDINATED WITH GENERATOR MANUFACTURER PRIOR TO INSTALLATION. |
| 26.49 | PROVIDE ALL CONDUITS REQUIRED FOR CONTROL WIRING, COORDINATE SIZE AND QUANTITY WITH MECHANICAL CONTROLS CONTRACTOR PRIOR TO ROUGH IN. COORDINATE STUB UP LOCATIONS WITH MECHANICAL CONTROLS CONTRACTOR PRIOR TO ROUGH IN. PROVIDE A PULL STRING IN ALL CONDUITS AND CAP ALL CONDUITS FOR FUTURE USE. |
| 26.50 | PROVIDE PERMEANT STEEL ACCESS STAIRS FOR GENERATORS CONFIRM LOCATION AND REQUIREMENTS WITH GENERATOR PROVIDER AND ARCHITECT PRIOR TO BID AND PURCHASE. |
| 26.51 | COORDINATE ALL UNDERGROUND CONDUITS AND FEEDERS WITH FOOTINGS PRIOR TO ROUGH IN. |
| 26.58 | DOCK LEVELER. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. |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CA5338(PE)
06/05/2020

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CLIENT:

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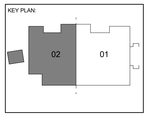
# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

E1.13

MAINTENACE/ MECH YARD POWER/LIGHTING

PLAN NORTH

TRUE NORTH

**1 SYSTEMS PLAN LEVEL 01 SECTOR 01**

1/8" = 1'-0"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SEPT. 6, 1839

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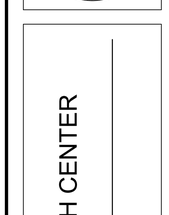
STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE: | DESCRIPTION: |
| 1 | 2/14/20 | BID PACKAGE 02 - ADD 04 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

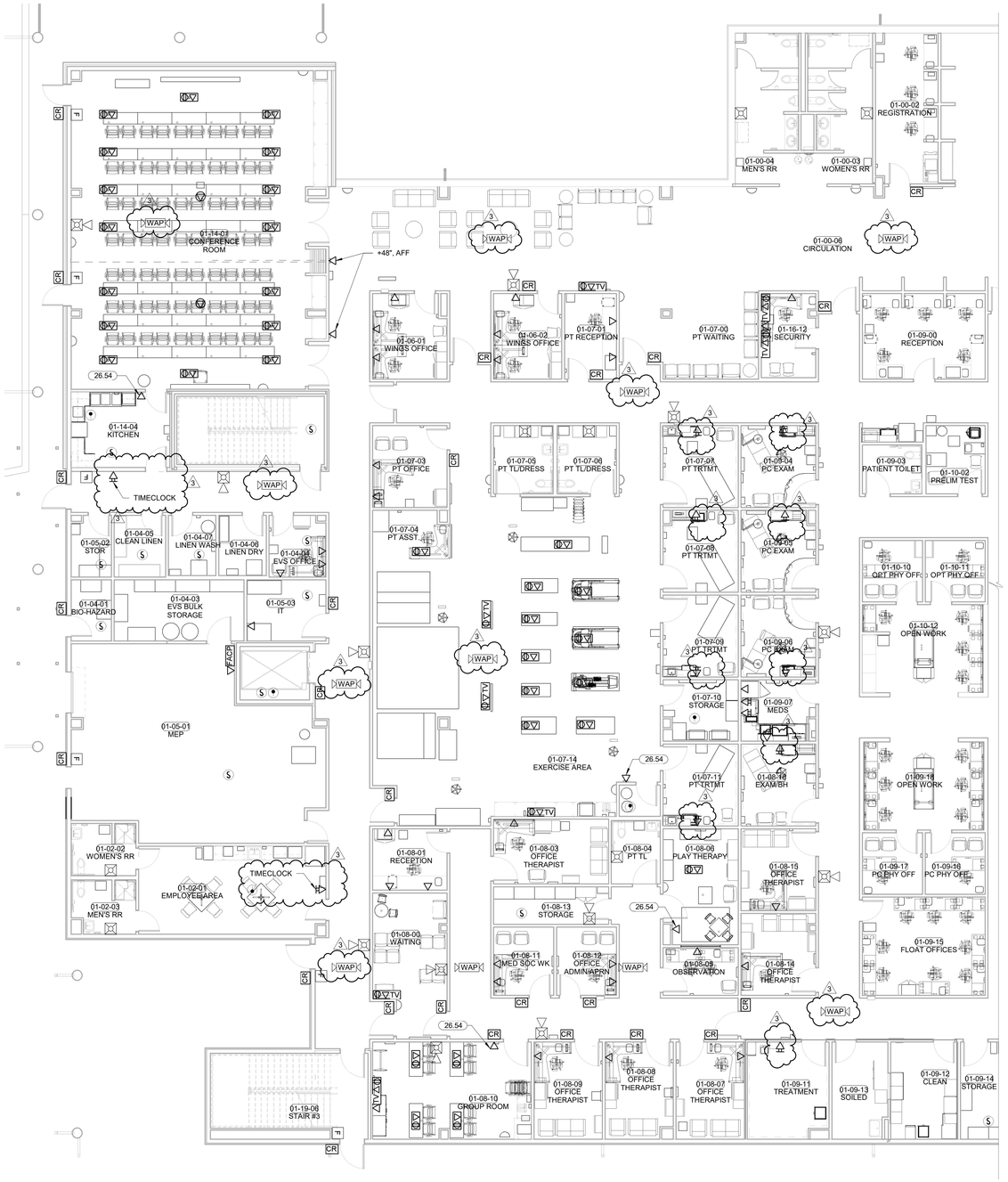
SHEET NUMBER:

E1.20

SYSTEMS PLAN LEVEL 01 SECTOR 01

## KEYNOTES

| | |
|---|---|
| 26.54 | WALL-MOUNTED TELEPHONE TO BE SPECIFIED BY OWNER. MOUNT AT +48" UNLESS DIRECTED OTHERWISE BY OWNER. |




PLAN NORTH

TRUE NORTH

**1 SYSTEMS PLAN LEVEL 01 SECTOR 02**

1/8" = 1'-0"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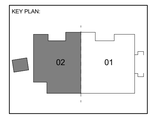
KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
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| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

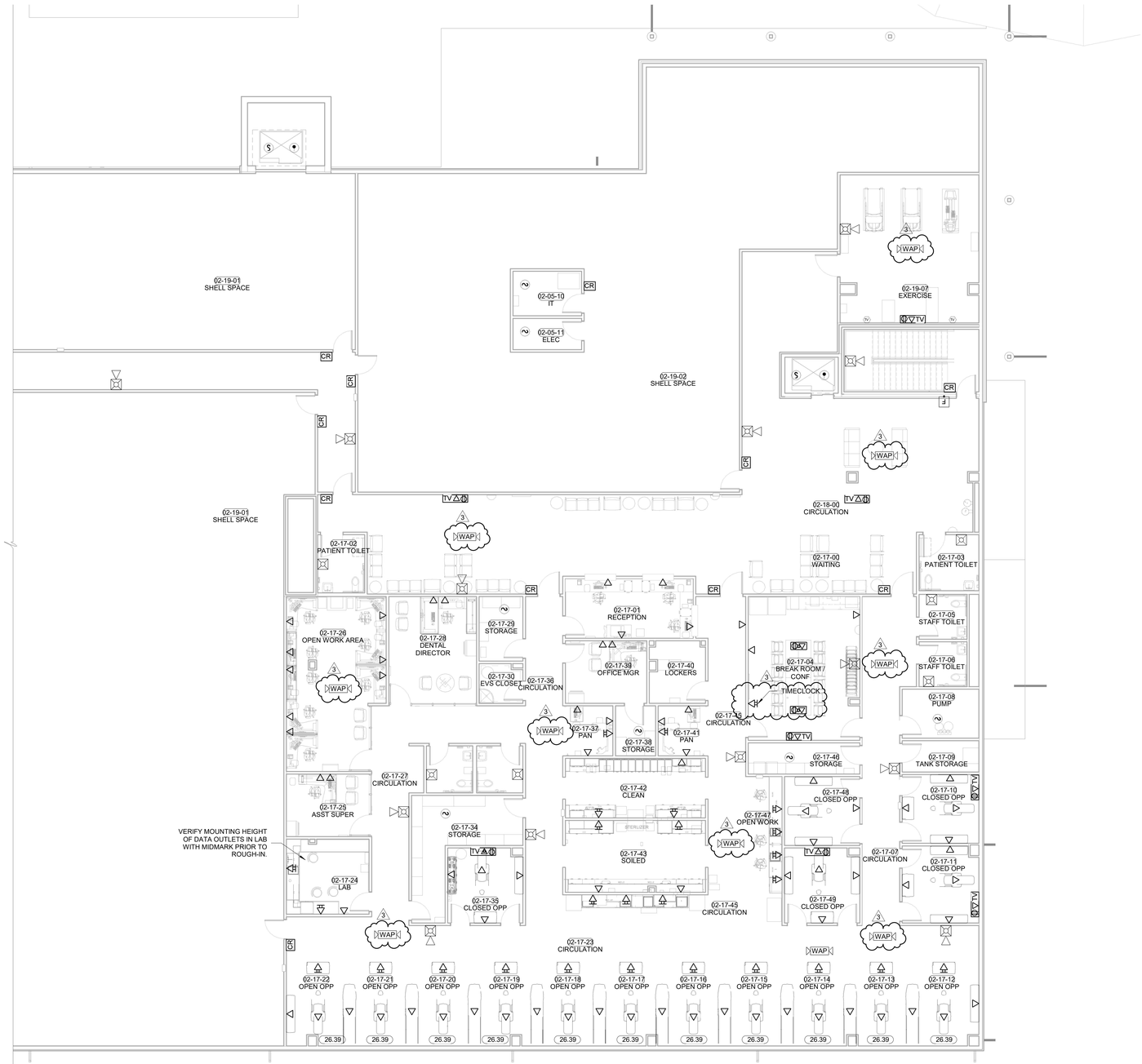
SHEET NUMBER:

E1.21

SYSTEMS PLAN LEVEL 01 SECTOR 02

## KEYNOTES

| | |
|---|---|
| 26.39 | REFER TO ADEC DRAWINGS AND PROVIDE A CONTINUOUS CONDUIT PATH AS DRAWN IN THE ADEC PLAN. |




PLAN NORTH / TRUE NORTH

**1 SYSTEMS PLAN LEVEL 02 SECTOR 01**

1/8" = 1'-0"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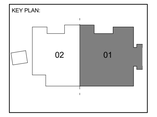
STILWELL, OKLAHOMA

KEY PLAN:




PROJECT PHASE:

BID PACKAGE 02

REVISIONS

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|---|---|---|
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 2/14/20 | BID PACKAGE 02 - ADD 04 |
| 3 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

E1.22

SYSTEMS PLAN LEVEL 02 SECTOR 01

## CABLE TRAY NOTES

PROVIDE SMOKE RATED PENETRATIONS AT ALL SMOKE WALLS. SEE ARCHITECTURAL SHEETS FOR SMOKED RATED WALL LOCATIONS.

PLAN NORTH

TRUE NORTH

**1 FIRST FLOOR CABLE TRAY PLAN**
1" = 10'-0"


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(479) 899-6370
www.hpengineeringinc.com


CLIENT:

THE CHEROKEE NATION
TRIBAL SEAL
SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

| DATE: | JOB NUMBER: |
|---|---|
| 12-06-19 | 18-01.01 |

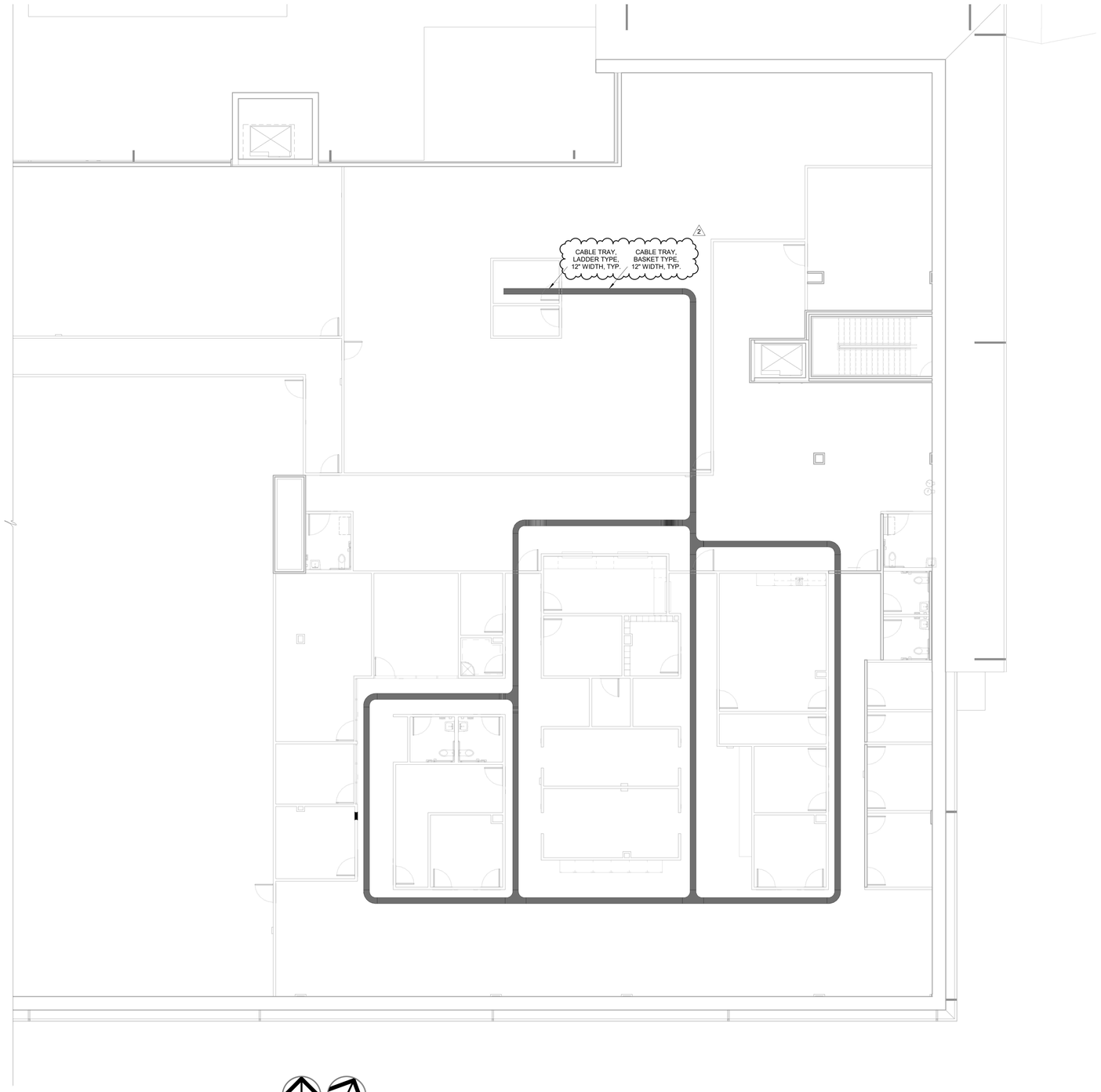
SHEET NUMBER:

E1.24

FIRST FLOOR CABLE TRAY PLAN

## CABLE TRAY NOTES

PROVIDE SMOKE RATED PENETRATIONS AT ALL SMOKE WALLS. SEE ARCHITECTURAL SHEETS FOR SMOKED RATED WALL LOCATIONS.




**1 SECOND FLOOR CABLE TRAY PLAN**
1/8" = 1'-0"


James R. Childers Architect, Inc.
45 South 4th Street
Fort Smith, AR 72901
479-783-2480
www.childersarchitect.com


PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER
Robert Brandon Pinkerton
23042
OKLAHOMA
CA5338(PE)
06/05/2020

CONSULTANT LOGO:

HP ENGINEERING
PROJECT NO. 18068R
100 % COMPLETE


HP ENGINEERING INC.
5214 W. VILLAGE PARKWAY
SUITE 120
ROGERS, AR 72758
(479) 899-6370
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CLIENT:

SEAL OF THE CHEROKEE NATION CWN BUT SEPT. 6, 1839

# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:

BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 2 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER: E1.25

SECOND FLOOR CABLE TRAY PLAN

James R. Childers
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45 South 4th Street
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www.childersarchitect.com

PROFESSIONAL SEAL
LICENSED PROFESSIONAL ENGINEER
Robert Brandon Pinkerton
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OKLAHOMA
06/05/2020

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CLIENT
THE CHEROKEE NATION CWJ APA 1839 SEAL OF 1999

# WILMA P. MANKILLER HEALTH CENTER
## EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

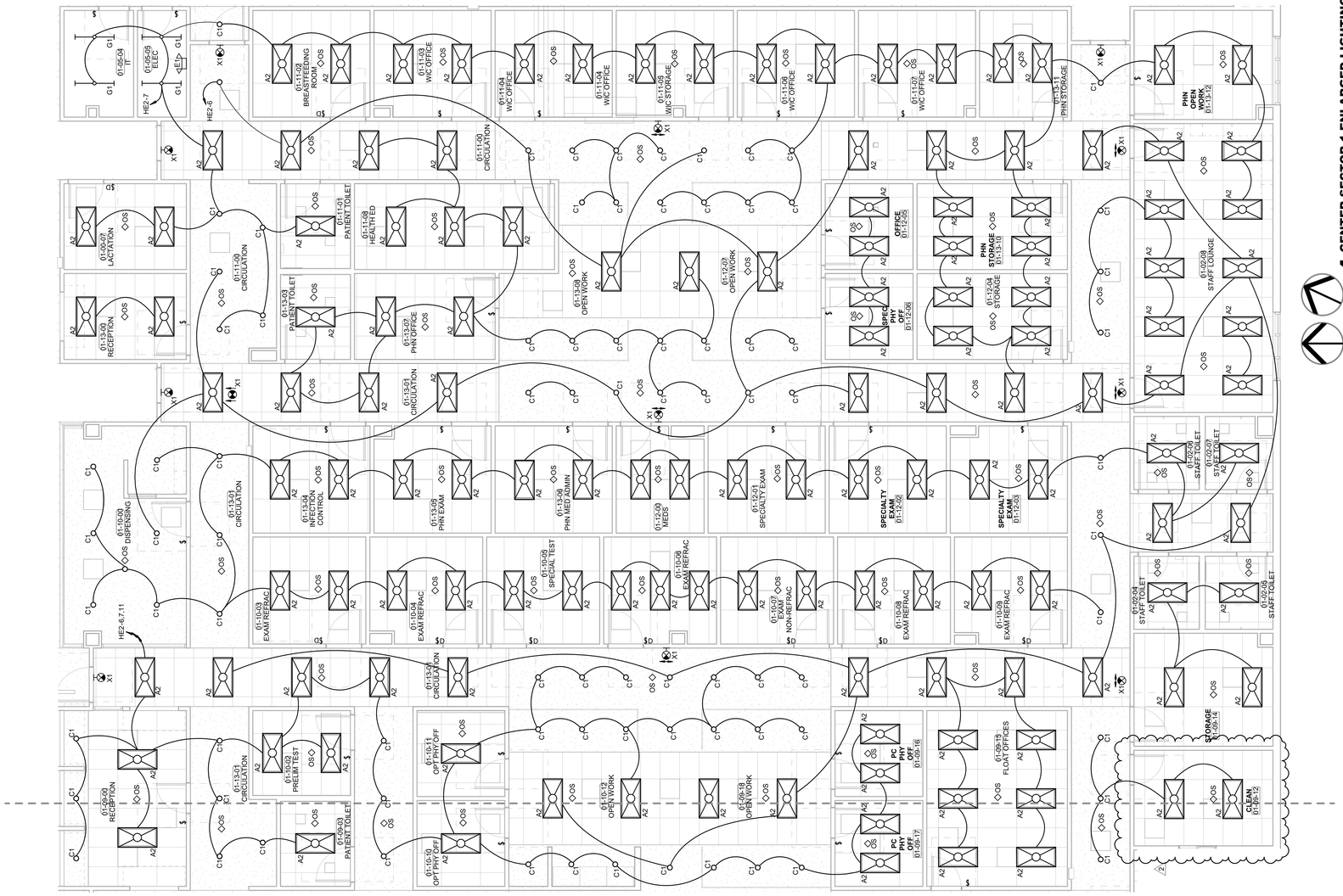
PROJECT PHASE:
BID PACKAGE 02

REVISIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 05/15/20 | BID PACKAGE 01 REVISED |
| 2 | 06/05/20 | BID PACKAGE 02 - ADD 04 |

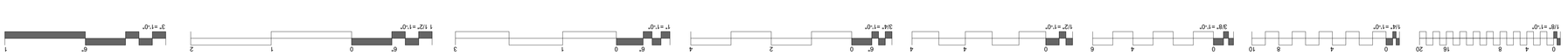
DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: E2.07

CENTER SECTOR 1 ENLARGED LIGHTING PLAN




1 CENTER SECTOR 1 ENLARGED LIGHTING
3/16" = 1'-0"

PLAN NORTH
TRUE NORTH



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PROFESSIONAL SEAL
PROFESSIONAL ENGINEER — Robert Brandon Pinkerton — 29042 — OKLAHOMA — 06/05/2020

CONSULTANT LOGO
HP.ENGINEERING
PROJECT NO. 18068R
100 % COMPLETE
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TULSA, OK 74145
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# WILMA P. MANKILLER HEALTH CENTER
## EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

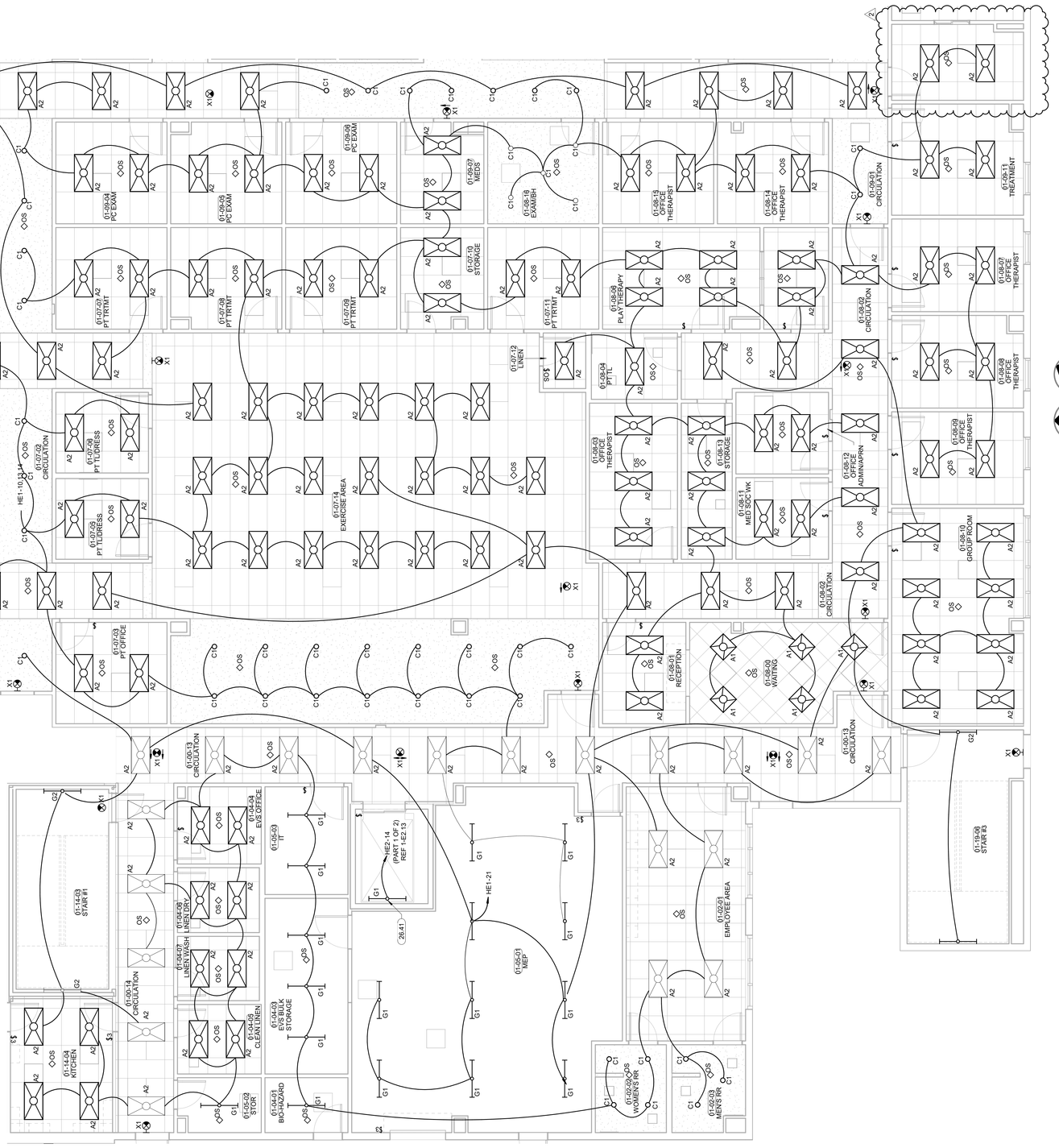
PROJECT PHASE:
BID PACKAGE 02

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 04/15/20 | BID PACKAGE 01 - ADD 01 |
| 2 | 06/05/20 | BID PACKAGE 02 - ADD 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01
SHEET NUMBER: E2.10

CENTER SECTOR 2 ENLARGED LIGHTING PLAN

## KEYNOTES
26.41 COORDINATE ELEVATOR SERVICE LIGHT WITH ELEVATOR INSTALLER SO NOT TO INTERFERE WITH ELEVATOR CLEARANCES OR OPERATION.



## SWITCHBRD: MDP1 — NEW

**Location:** MEP 01-05-01 | **Supply From:** ATS1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 2000 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 667... | 516... | | | | | | 2 |
| 3 | T-1 (8) | 300 | 3 | -- | | 634... | 540... | -- | 3 | 250 | T-3 (8) | 4 |
| 5 | | | | | | | 656... | 512... | | | | 6 |
| 7 | | | | | 723... | 723... | | | | | | 8 |
| 9 | CHILLER 1 (8) | 300 | 3 | -- | | 723... | 723... | -- | 3 | 300 | CHILLER 2 (8) | 10 |
| 11 | | | | | | | 723... | 723... | | | | 12 |
| 13 | | | | | 500... | 734... | | | | | | 14 |
| 15 | T-2 (8) | 175 | 3 | -- | | 495... | 730... | -- | 3 | 400 | H2 (8) | 16 |
| 17 | | | | | | | 557... | 724... | | | | 18 |
| 19 | | | | | 145... | 0 | | -- | -- | -- | SPACE | 20 |
| 21 | T-4 (8) | 175 | 3 | -- | | 180... | 0 | -- | -- | -- | SPACE | 22 |
| 23 | | | | | | | 111... | 0 | -- | -- | SPACE | 24 |
| 25 | | | | | 389... | 0 | | -- | -- | -- | SPACE | 26 |
| 27 | H1 (8) | 200 | 3 | -- | | 365... | 0 | -- | -- | -- | SPACE | 28 |
| 29 | | | | | | | 405... | 0 | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | SPACE | 42 |
| | | | | Total Load: | 440005 VA | 439361 VA | 441329 VA | | | | | |
| | | | | Total Amps: | 1589 A | 1586 A | 1594 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Hvac | 248410 VA | 100.00% | 248410 VA | | |
| Lighting | 17313 VA | 125.00% | 21642 VA | Total Conn. Load: | 1320695 VA |
| Motor | 18955 VA | 100.00% | 18955 VA | Total Est. Demand: | 1189183 VA |
| Other | 69080 VA | 100.00% | 69080 VA | Total Conn. Current: | 1589 A |
| Power | 654912 VA | 100.00% | 654912 VA | Total Est. Demand... | 1430 A |
| Receptacle | 240009 VA | 52.08% | 125005 VA | | |
| Heating | 600 VA | 0.01% | 0 VA | | |
| Lighting - Exterior | 2952 VA | 125.00% | 3690 VA | | |
| Kitchen | 63483 VA | 65.00% | 41264 VA | | |
| Continuous | 4981 VA | 125.00% | 6226 VA | | |

## SWITCHBRD: MSBE — NEW

**Location:** MECHANICAL YARD | **Supply From:** GENERATOR | **Mounting:** SURFACE | **Enclosure:** NEMA 3R
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 2000 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 440... | 223... | | | | | | 2 |
| 3 | ATS1 (8) | 2000 | 3 | -- | | 439... | 224... | -- | 3 | 200 | ATS2 (8) | 4 |
| 5 | | | | | | | 441... | 207... | | | | 6 |
| 7 | | | | | 179... | 0 | | | | | | 8 |
| 9 | 400A SPACE | 400 | 3 | -- | | 179... | 0 | -- | -- | -- | 400A SPACE | 10 |
| 11 | | | | | | | 179... | 0 | | | | 12 |
| 13 | | | | | 0 | 0 | | | | | | 14 |
| 15 | 400A SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | 400A SPACE | 16 |
| 17 | | | | | | | 0 | 0 | | | | 18 |
| | | | | Total Load: | 480310 VA | 479773 VA | 480090 VA | | | | | |
| | | | | Total Amps: | 1734 A | 1732 A | 1733 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Hvac | 248410 VA | 100.00% | 248410 VA | | |
| Lighting | 37459 VA | 125.00% | 46823 VA | Total Conn. Load: | 1440174 VA |
| Motor | 18955 VA | 100.00% | 18955 VA | Total Est. Demand: | 1315685 VA |
| Other | 69080 VA | 100.00% | 69080 VA | Total Conn. Current: | 1732 A |
| Power | 692323 VA | 100.00% | 692323 VA | Total Est. Demand... | 1583 A |
| Receptacle | 240009 VA | 52.08% | 125005 VA | | |
| Heating | 600 VA | 0.01% | 0 VA | | |
| Lighting - Exterior | 10898 VA | 125.00% | 13623 VA | | |
| Kitchen | 63483 VA | 65.00% | 41264 VA | | |
| Continuous | 4981 VA | 125.00% | 6226 VA | | |

## Branch Panel: MSBN — NEW

**Location:** MECHANICAL YARD | **Supply From:** UTILITY TRANSFORMER | **Mounting:** SURFACE | **Enclosure:** NEMA 3R
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 2000 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 223... | 440... | | | | | | 2 |
| 3 | ATS2 (8) | 200 | 3 | -- | | 224... | 439... | -- | 3 | 2000 | ATS1 (8) | 4 |
| 5 | | | | | | | 207... | 441... | | | | 6 |
| 7 | | | | | 0 | 0 | | | | | | 8 |
| 9 | SPD | 100 | 3 | -- | | 0 | 0 | -- | 3 | 20 | LCP PHASE LOSS CIRCUIT | 10 |
| 11 | | | | | | | 0 | 0 | | | | 12 |
| 13 | | | | | 0 | 0 | | | | | | 14 |
| 15 | 400A SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | 400A SPACE | 16 |
| 17 | | | | | | | 0 | 0 | | | | 18 |
| | | | | Total Load: | 462318 VA | 461781 VA | 462098 VA | | | | | |
| | | | | Total Amps: | 1669 A | 1667 A | 1668 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Hvac | 248410 VA | 100.00% | 248410 VA | | |
| Lighting | 37459 VA | 125.00% | 46823 VA | Total Conn. Load: | 1386198 VA |
| Motor | 18955 VA | 100.00% | 18955 VA | Total Est. Demand: | 1261709 VA |
| Other | 69080 VA | 100.00% | 69080 VA | Total Conn. Current: | 1667 A |
| Power | 692323 VA | 100.00% | 692323 VA | Total Est. Demand... | 1518 A |
| Receptacle | 240009 VA | 52.08% | 125005 VA | | |
| Heating | 600 VA | 0.01% | 0 VA | | |
| Lighting - Exterior | 10898 VA | 125.00% | 13623 VA | | |
| Kitchen | 63483 VA | 65.00% | 41264 VA | | |
| Continuous | 4981 VA | 125.00% | 6226 VA | | |

## Branch Panel: H1 — NEW

**Location:** MEP 01-05-01 | **Supply From:** MDP1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 225 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 6318 | 224... | | | | | | 2 |
| 3 | HWP-1 | 30 | 3 | #10 | | 6318 | 224... | #1 | 3 | 100 | CHWP-1 | 4 |
| 5 | | | | | | | 6318 | 224... | | | | 6 |
| 7 | | | | | 6633 | 210 | | | 1 | 20 | Lighting | 8 |
| 9 | BP-1 | 30 | 3 | #10 | | 6633 | 1129 | | 1 | 20 | MEP & CIRCULATION LIGHTING | 10 |
| 11 | | | | | | | 6633 | 2322 | 1 | 20 | CIRCULATION LIGHTING | 12 |
| 13 | SPACE | -- | -- | -- | 0 | 3349 | | #10 | 1 | 20 | PHARMACY LOBBY & CORRIDOR LTG | 14 |
| 15 | SPACE | -- | -- | -- | | | 0 | | | | | 16 |
| 17 | SPACE | -- | -- | -- | | | | 0 | 2780 | 1 | 20 | PHARMACY & CIRCULATION... | 18 |
| 19 | SPACE | -- | -- | -- | 0 | | | | | | | 20 |
| 21 | SPACE | -- | -- | -- | | | 0 | | | | | 22 |
| 23 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | SPACE | 24 |
| 25 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 26 |
| 27 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 28 |
| 29 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | -- | SPACE | 42 |
| | | | | Total Load: | 38957 VA | 36527 VA | 40500 VA | | | | | |
| | | | | Total Amps: | 142 A | 132 A | 148 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 9790 VA | 125.00% | 12238 VA | | |
| Motor | 18955 VA | 100.00% | 18955 VA | Total Conn. Load: | 115985 VA |
| Power | 87240 VA | 100.00% | 87240 VA | Total Est. Demand: | 118433 VA |
| | | | | Total Conn. Current: | 140 A |
| | | | | Total Est. Demand... | 142 A |

## Branch Panel: H2 — NEW

**Location:** ELEC 02-05-12 | **Supply From:** MDP1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 400 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | OPEN OPP LIGHTING | 20 | 1 | #10 | 2949 | 208... | | | | | | 2 |
| 3 | SHELL SPACE & CIRCULATION LTG | 20 | 1 | | | 2590 | 208... | #2 | 3 | 90 | AHU-01 SINGLE POINT | 4 |
| 5 | RECEPTION & BREAKROOM... | 20 | 1 | | | | 1984 | 208... | | | | 6 |
| 7 | SPACE | -- | -- | -- | 0 | 144... | | | | | | 8 |
| 9 | SPACE | -- | -- | -- | | 0 | 144... | #6 | 3 | 60 | AHU-02 SINGLE POINT | 10 |
| 11 | SPACE | -- | -- | -- | | | 0 | 144... | | | | 12 |
| 13 | SPACE | -- | -- | -- | 0 | 208... | | | | | | 14 |
| 15 | SPACE | -- | -- | -- | | 0 | 208... | #2 | 3 | 90 | AHU-03 SINGLE POINT | 16 |
| 17 | SPACE | -- | -- | -- | | | 0 | 208... | | | | 18 |
| 19 | SPACE | -- | -- | -- | 0 | 144... | | | | | | 20 |
| 21 | SPACE | -- | -- | -- | | 0 | 144... | #6 | 3 | 60 | AHU-04 SUPPLY FAN | 22 |
| 23 | SPACE | -- | -- | -- | | | 0 | 144... | | | | 24 |
| 25 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 26 |
| 27 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 28 |
| 29 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | -- | | 0 | 0 | -- | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | -- | | | 0 | 0 | -- | -- | SPACE | 42 |
| | | | | Total Load: | 73448 VA | 73090 VA | 72483 VA | | | | | |
| | | | | Total Amps: | 265 A | 264 A | 262 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Hvac | 211498 VA | 100.00% | 211498 VA | | |
| Lighting | 7523 VA | 125.00% | 9404 VA | Total Conn. Load: | 219021 VA |
| | | | | Total Est. Demand: | 220902 VA |
| | | | | Total Conn. Current: | 263 A |
| | | | | Total Est. Demand... | 266 A |

## Branch Panel: HE1 — NEW

**Location:** MEP 01-05-01 | **Supply From:** ATS2 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 225 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | 7962 | 140 | | #8 | 1 | 20 | MECHANICAL SHOP LIGHTING | 2 |
| 3 | HE2 (8) | 100 | 3 | -- | | 2926 | 1994 | #8 | 1 | 20 | PARKING LOT LIGHTING(10) | 4 |
| 5 | | | | | | | 2841 | 1000 | #8 | 1 | 20 | PARKING LOT LIGHTING(10) | 6 |
| 7 | | | | | 0 | 135... | | | | | | 8 |
| 9 | HE4 (8) | 100 | 3 | -- | | 0 | 124... | -- | 3 | 100 | HE3 (8) | 10 |
| 11 | | | | | | | 0 | 124... | | | | 12 |
| 13 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 14 |
| 15 | EXTERIOR BUILDING LIGHTING(10) | 20 | 1 | #8 | | 2470 | 0 | -- | -- | -- | SPACE | 16 |
| 17 | PARKING LOT LIGHTING(10) | 20 | 1 | #8 | | | 1494 | 1976 | #8 | 1 | 20 | PARKING LOT LIGHTING(10) | 18 |
| 19 | EXTERIOR BUILDING LIGHTING(10) | 20 | 1 | #8 | 684 | 0 | | | | | -- | -- | -- | SPACE | 20 |
| 21 | EMERGENCY LIGHTING(2) | 20 | 1 | | | | 2560 | 0 | | | -- | -- | -- | SPACE | 22 |
| 23 | Lighting - Exterior | 20 | 1 | | | | | 988 | 0 | | -- | -- | -- | SPACE | 24 |
| 25 | | | | | | 0 | | | | | -- | -- | -- | SPACE | 26 |
| 27 | | | | | | | 0 | | | | -- | -- | -- | SPACE | 28 |
| 29 | | | | | | | | 0 | | | -- | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | -- | | | 0 | | | | -- | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | -- | | | | 0 | 0 | | -- | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | -- | | | 0 | | | | -- | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | -- | | | | 0 | 0 | | -- | -- | -- | SPACE | 42 |
| | | | | Total Load: | 22313 VA | 22420 VA | 20769 VA | | | | | |
| | | | | Total Amps: | 81 A | 82 A | 75 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 20145 VA | 125.00% | 25182 VA | | |
| Power | 37411 VA | 100.00% | 37411 VA | Total Conn. Load: | 65503 VA |
| Lighting - Exterior | 7946 VA | 125.00% | 9933 VA | Total Est. Demand: | 72525 VA |
| | | | | Total Conn. Current: | 79 A |
| | | | | Total Est. Demand... | 87 A |

## Branch Panel: HE2 — NEW

**Location:** ELEC 01-05-05 | **Supply From:** HE1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 100 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | SPACE | -- | -- | -- | 0 | 0 | | -- | -- | -- | SPACE | 2 |
| 3 | LOBBY & MEDICAL RECORDS LIGHTING | 20 | 1 | | | 2118 | 480 | | | 1 | 20 | EMERGENCY LIGHTING(2) | 4 |
| 5 | SPACE | -- | -- | -- | | | | 0 | 680 | 1 | 20 | EMERGENCY LIGHTING(2) | 6 |
| 7 | WIC OFFICES & LOUNGE LIGHTING | 20 | 1 | | 3460 | 876 | | | | 1 | 20 | EMERGENCY LIGHTING(2) | 8 |
| 9 | SECTOR 1 ELEVATOR PIT LIGHTS | 20 | 1 | | | 70 | 188 | | | 1 | 20 | STAIR #2 LIGHTING | 10 |
| 11 | EXAM ROOMS & OFFICES LIGHTING | 20 | 1 | | | | | 1356 | 805 | 1 | 20 | Lighting | 12 |
| 13 | EXERCISE & THERAPY OFFICES LTG | 20 | 1 | | 3556 | 70 | | | | 1 | 20 | SECTOR 2 ELEVATOR PIT LIGHTS | 14 |
| 15 | ELEVATOR PIT LIGHTS | 20 | 1 | | | 70 | 0 | | | -- | -- | SPACE | 16 |
| 17 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | SPACE | 18 |
| 19 | SPACE | -- | -- | -- | 0 | 0 | | | | -- | -- | SPACE | 20 |
| 21 | SPACE | -- | -- | -- | | 0 | 0 | | | -- | -- | SPACE | 22 |
| 23 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | SPACE | 24 |
| 25 | SPACE | -- | -- | -- | 0 | 0 | | | | -- | -- | SPACE | 26 |
| 27 | SPACE | -- | -- | -- | | 0 | 0 | | | -- | -- | SPACE | 28 |
| 29 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | -- | 0 | 0 | | | | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | -- | | 0 | 0 | | | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | -- | 0 | 0 | | | | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | -- | | 0 | 0 | | | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | SPACE | 42 |
| | | | | Total Load: | 13526 VA | 12470 VA | 12470 VA | | | | | |
| | | | | Total Amps: | 49 A | 45 A | 45 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 1056 VA | 125.00% | 1320 VA | | |
| Power | 37411 VA | 100.00% | 37411 VA | Total Conn. Load: | 38467 VA |
| | | | | Total Est. Demand: | 38731 VA |
| | | | | Total Conn. Current: | 46 A |
| | | | | Total Est. Demand... | 47 A |

## Branch Panel: HE3 — NEW

**Location:** ELEC 02-05-11 | **Supply From:** HE1 | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 480/277 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MLO | **Mains Rating:** 100 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | EMERGENCY LIGHTING(2) | 20 | 1 | | 1056 | 0 | | | | | -- | -- | -- | SPACE | 2 |
| 3 | | | | | | | 0 | | | | -- | -- | -- | SHUNT-TRIP BREAKER | 4 |
| 5 | | | | | | | | 4157 | 4157 | | | | | | 6 |
| 7 | ELEVATOR CONTROL SERVICE | 25 | 3 | #10 | 4157 | 4157 | | | | | #10 | 3 | 25 | ELEVATOR CONTROL SERVICE | 8 |
| 9 | | | | | | | 4157 | 4157 | | | | | | | 10 |
| 11 | SHUNT-TRIP BREAKER | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | -- | SHUNT-TRIP BREAKER | 12 |
| 13 | | | | | | 4157 | | | | | | | | | 14 |
| 15 | SPACE | -- | -- | -- | | 0 | 4157 | | | | #10 | 3 | 30 | ELEVATOR CONTROL SERVICE | 16 |
| 17 | | | | | | | | 4157 | | | | | | | 18 |
| 19 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 20 |
| 21 | SPACE | -- | -- | -- | | 0 | 0 | | | | -- | -- | -- | SPACE | 22 |
| 23 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | -- | SPACE | 24 |
| 25 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 26 |
| 27 | SPACE | -- | -- | -- | | 0 | 0 | | | | -- | -- | -- | SPACE | 28 |
| 29 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | -- | SPACE | 30 |
| 31 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 32 |
| 33 | SPACE | -- | -- | -- | | 0 | 0 | | | | -- | -- | -- | SPACE | 34 |
| 35 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | -- | SPACE | 36 |
| 37 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 38 |
| 39 | SPACE | -- | -- | -- | | 0 | 0 | | | | -- | -- | -- | SPACE | 40 |
| 41 | SPACE | -- | -- | -- | | | | 0 | 0 | -- | -- | -- | -- | SPACE | 42 |
| | | | | Total Load: | 13526 VA | 12470 VA | 12470 VA | | | | | |
| | | | | Total Amps: | 49 A | 45 A | 45 A | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Lighting | 1056 VA | 125.00% | 1320 VA | | |
| Power | 37411 VA | 100.00% | 37411 VA | Total Conn. Load: | 38467 VA |
| | | | | Total Est. Demand: | 38731 VA |
| | | | | Total Conn. Current: | 46 A |
| | | | | Total Est. Demand... | 47 A |

## Branch Panel: F1A — NEW

**Location:** MECHANICAL SHOP | **Supply From:** L1A | **Mounting:** SURFACE | **Enclosure:** NEMA 1
**Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4
**A.I.C. Rating:** (7) FULLY RATED | **Mains Type:** MCB | **Mains Rating:** 60 A

**Notes:**

| CKT | Load Name | CB | P | Wire | A | B | C | Wire | P | CB | Load Name | CKT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | OVERHEAD DOOR | 20 | 2 | | 300 | 0 | | | | | -- | -- | -- | SPACE | 2 |
| 3 | | | | | | 300 | 720 | | | | | 1 | 20 | GUH-1 & GUH-2 | 4 |
| 5 | MAINTENANCE SHOP RECEPTACLES | 20 | 1 | | | | | 720 | 540 | | | 1 | 20 | MAINTENANCE SHOP RECEPS | 6 |
| 7 | MAINTENANCE SHOP RECEPTACLES | 20 | 1 | | 720 | 360 | | | | | | 1 | 20 | OUTDOOR SERVICE RECEPTACLES | 8 |
| 9 | LOADING DOCK LEVELER | 30 | 1 | 10 | | | 2400 | 0 | | | -- | -- | -- | SPACE | 10 |
| 11 | SPACE | -- | -- | -- | | | | | 0 | 0 | -- | -- | -- | SPACE | 12 |
| 13 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 14 |
| 15 | SPACE | -- | -- | -- | | | 0 | 0 | | | -- | -- | -- | SPACE | 16 |
| 17 | SPACE | -- | -- | -- | | | | | 0 | 0 | -- | -- | -- | SPACE | 18 |
| 19 | SPACE | -- | -- | -- | 0 | 0 | | | | | -- | -- | -- | SPACE | 20 |
| 21 | SPACE | -- | -- | -- | | | 0 | 0 | | | -- | -- | -- | SPACE | 22 |
| 23 | SPACE | -- | -- | -- | | | | | 0 | 0 | -- | -- | -- | SPACE | 24 |
| | | | | Total Load: | 1380 VA | 3420 VA | 1260 VA | | | | | | | | |
| | | | | Total Amps: | 12 A | 29 A | 11 A | | | | | | | | |

| Load Classification | Connected Load | Demand Factor | Estimated Demand | Panel Totals | |
|---|---|---|---|---|---|
| Hvac | 720 VA | 100.00% | 720 VA | | |
| Other | 600 VA | 100.00% | 600 VA | Total Conn. Load: | 6060 VA |
| Power | 2400 VA | 100.00% | 2400 VA | Total Est. Demand: | 6060 VA |
| Receptacle | 2340 VA | 100.00% | 2340 VA | Total Conn. Current: | 17 A |
| | | | | Total Est. Demand... | 17 A |




TYPICAL GROUNDING DETAIL
12" = 1'-0"

## PANELBOARD NOTES (#)

1. TERMINATE GROUND ON ISOLATED GROUND BUS.
2. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3. INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4. GFI BREAKER FOR PERSONNEL PROTECTION (5mA).
5. GFI BREAKER FOR EQUIPMENT PROTECTION (30mA).
6. CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUND PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7. REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8. REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9. FACTORY WIRED TO LOAD.
10. THRU CONTROLLER. REFER TO LIGHTING CONTROLLER DETAIL.
11. ADD CIRCUIT BREAKER TO EXISTING PANEL.

## EQUIPMENT GROUNDING CONDUCTOR SIZING CHART

| BRKR AMPS | | WIRE SIZE | | | | |
|---|---|---|---|---|---|---|
| 15-20 | PHASE | 12 | 10 | 8 | 6 | 4 |
| | GROUND | 12 | 10 | 8 | 6 | 4 |
| 25-30 | PHASE | 10 | 8 | 6 | 4 | 3 |
| | GROUND | 10 | 8 | 6 | 4 | 3 |
| 35-50 | PHASE | 8 | 6 | 4 | 3 | 2 |
| | GROUND | 10 | 8 | 4 | 4 | 4 |
| 60 | PHASE | 6 | 4 | 3 | 2 | 1 |
| | GROUND | 10 | 6 | 6 | 4 | 4 |
| 70 | PHASE | 6 | 4 | 3 | 2 | 1 |
| | GROUND | 8 | 4 | 4 | 3 | 2 |
| 80-90 | PHASE | 4 | 3 | 2 | 1 | 1/0 |
| | GROUND | 8 | 6 | 4 | 4 | 3 |
| 100 | PHASE | 3 | 2 | 1 | 1/0 | 2/0 |
| | GROUND | 8 | 6 | 4 | 4 | 3 |

PER NEC 250.122(B)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www.childersarchitect.com


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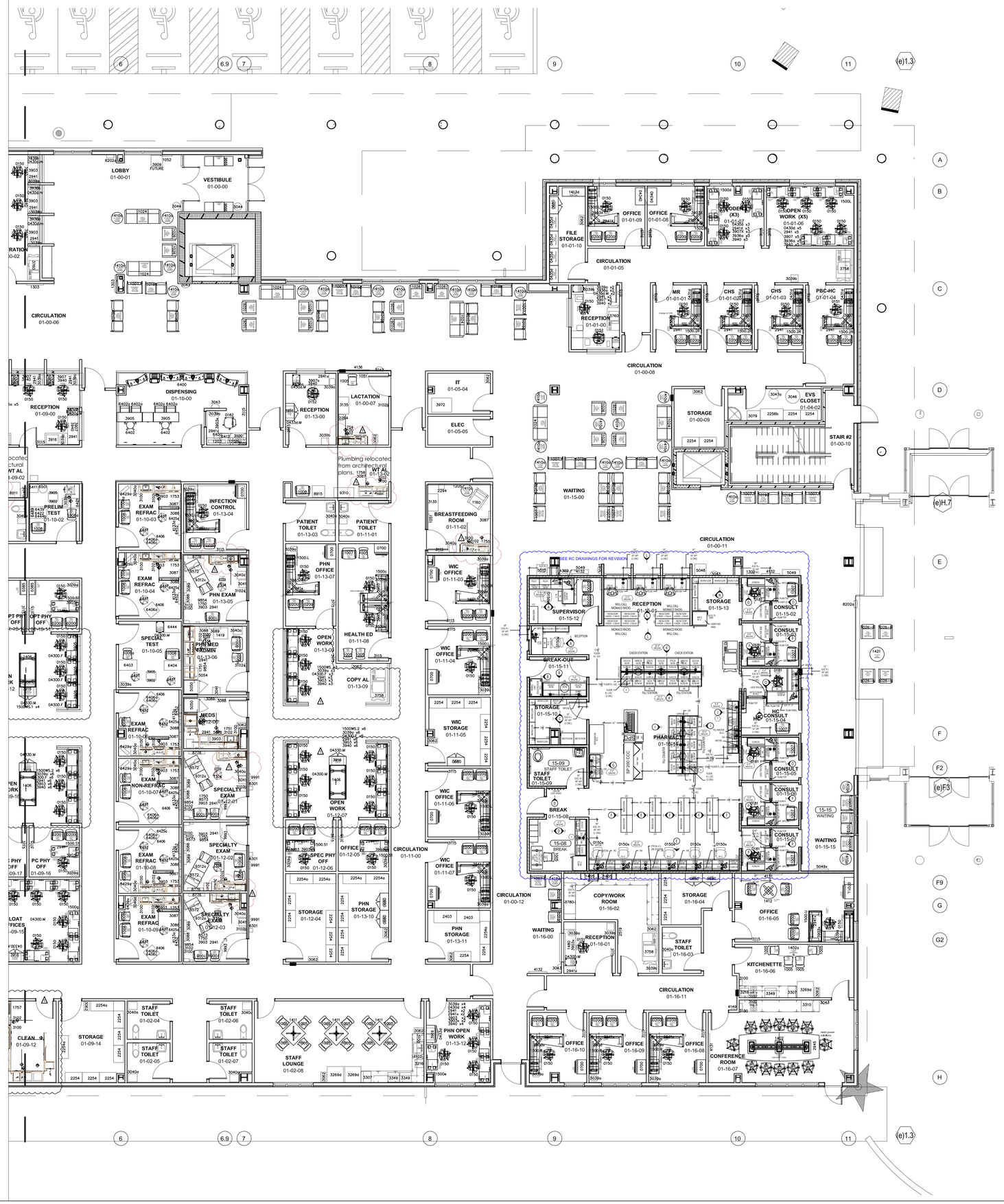
WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 1/10/20 | BID PACKAGE 02 - ADD 01 |
| 2 | 3/30/20 | BID PACKAGE 02 - ASI 03 |
| 3 | 06/05/20 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19 | JOB NUMBER: 18-01.01
SHEET NUMBER: E3.02
PANEL SCHEDULES

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STILWELL, OKLAHOMA

KEY PLAN:

02

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

EQ1.11

EQUIPMENT PLAN
LEVEL 01
SECTOR 01

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WILMA P. MANKILLER HEALTH CENTER EXPANSION
STILWELL, OKLAHOMA

KEY PLAN:

01

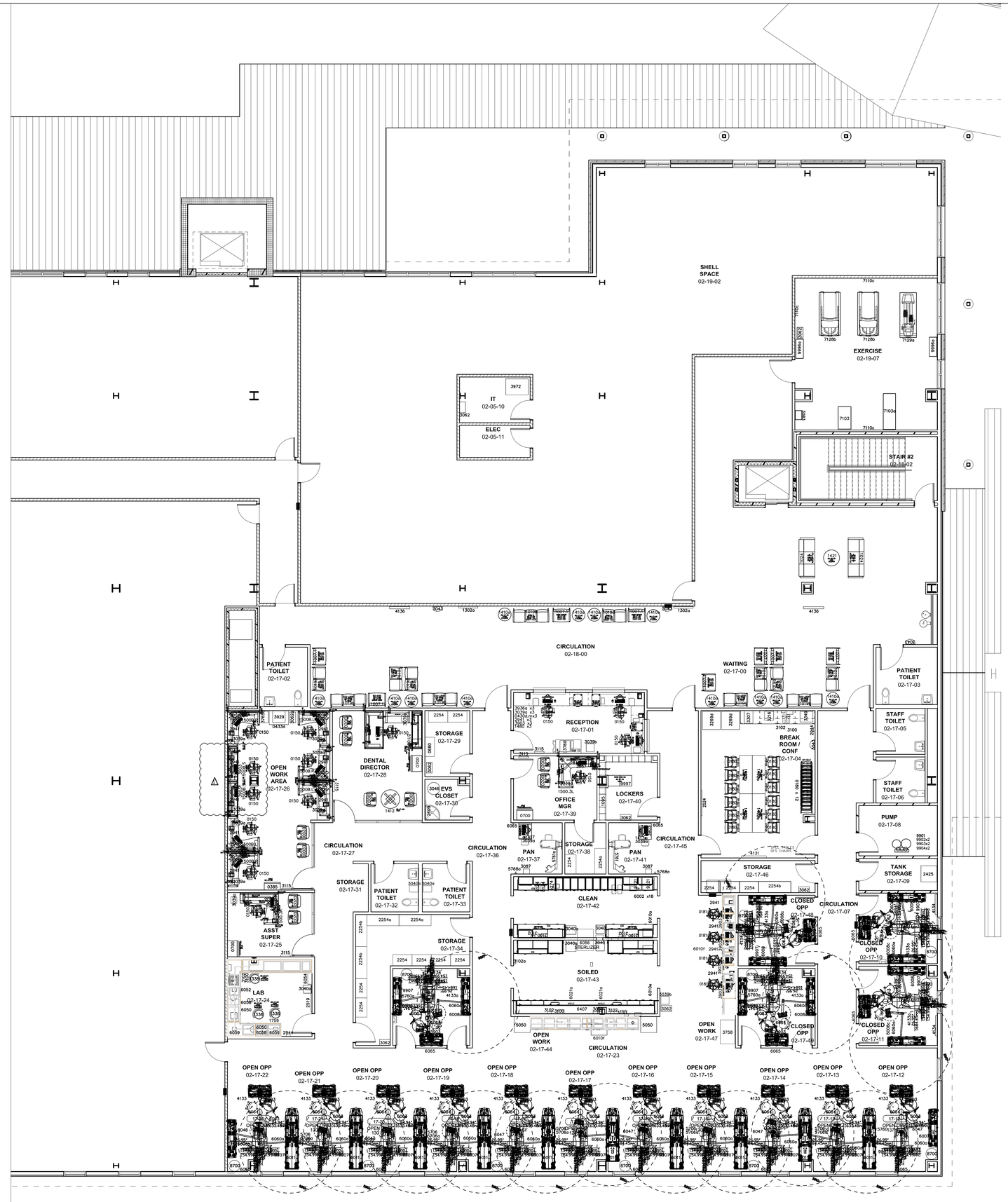
PROJECT PHASE:
BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19
JOB NUMBER: 18-01.01

SHEET NUMBER:
EQ1.12

EQUIPMENT PLAN
LEVEL 01
SECTOR 02

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# WILMA P. MANKILLER HEALTH CENTER EXPANSION

STILWELL, OKLAHOMA

KEY PLAN:

02

PROJECT PHASE:

BID PACKAGE 02

| REVISIONS | | |
|---|---|---|
| # | DATE | DESCRIPTION |
| 1 | 6/5/2020 | BID PACKAGE 02 - ASI 04 |

DATE: 12-06-19

JOB NUMBER: 18-01.01

SHEET NUMBER:

EQ1.21

EQUIPMENT PLAN
LEVEL 02
SECTOR 01