

Date: May 7, 2021

ADDENDUM NO. 1

PROJECT NO: 1110169

TITLE OF PROJECT: Visitor Center Repairs and HQ Restroom Replacement

FACILITY LOCATION: Monahans Sandhills State Park

NOTICE TO ALL BIDDERS:

This addendum shall be considered part of the Contract Documents and is issued to change, amplify, or delete from or otherwise explain the documents where provisions of this addendum differ from those of the original contract documents. This addendum shall have precedence over the original contract documents and shall govern.

Bidders are hereby notified that they shall incorporate this addendum in their bid, and it shall be construed that the Contractor's Bid shall reflect with full knowledge, all items, changes and modifications to the contract documents herein specified.

Bidders are advised to check for updates, addenda issuance, and bid opening date changes on the Electronic State Business Daily at:

<http://www.txsmartbuy.com/esbd>

Please see attached revisions to clarify Contract Documents, Specification, and Drawings.

1. CONTRACT DOCUMENTS:

Notice To Bidders revised Construction Estimate amount.

Revised Contractor's Bid (Bid Schedule 2021_0414).

2. DRAWINGS (REISSUED SHEETS WITH MODIFICATIONS):

Sheet C-03 (12 of 85) – Demolition Control Plan

Sheet C-06 (15 of 85) – Dimensioning Plan

Sheet C-07 (16 of 85) – Grading Plan

Sheet C-09 (18 of 85) – Pavilion Alternate Grading & Dimensioning Plan

Sheet A-01 (19 of 85) – Architectural Site Plans Overall

Sheet A-02 (20 of 85) – Architectural Site Plan Visitors Center & Site Details

Sheet A-04 (22 of 85) – Door/Room Finish Schedules, Door & Signs Types

Sheet A-13 (31 of 85) - Floor & Roof Plans Comfort Station & Section House

Sheet A-17 (35 of 85) - Exterior Elevations Section House

Sheet A-21 (39 of 85) - Roof Details – Section House

Sheet M-03 (61 of 85) - Mechanical Demolition

Sheet E-02 (68 of 85) – Electrical Site Lighting Plan

Sheet E-03 (69 of 85) – Electrical Demolition

Sheet E-05 (71 of 85) – Electrical Power Enlarged

Sheet E-08 (74 of 85) – Electrical Riser

Sheet E-09 (75 of 85) - Electrical Schedules

Sheet P-03 (79 of 85) - Plumbing Sewer & Vent Enlarged Floor Plan – Visitor Center

3. QUESTIONS WITH ANSWERS:

Q: Will the exterior electrical that is surfaced mounted need to be addressed on how to bid?
Please see attached photos

A: Surface mounted conduit and J boxes that are currently painted the sand color is to be painted color to match surface to which is it attached or nearest surface (e.g. conduit run along underside of porch paint to match soffit/rafter color)

For exterior electrical outlets where the exterior enclosure has been painted sand, paint the enclosure to match surface to which is it attached. Mask off outlet.

For wall mounted light fixtures, mask off fixture.

For under soffit light fixtures at porch, remove light fixtures prior to painting and reinstall after painting complete.

This information will also be provided on appropriate sheets.

Q: The existing utility service pedestal to remain. Removing the 120/240V 3-phase, 200A service disconnect. To be replaced with a new Panel-DP. (please see the attached photos). There would not be a main to feed existing disconnect “A” and water well disconnect from panel-DP. The way the wires are tapped inside the pedestal from the load side of service disconnect “MS”. Would the 200A meter service be enough for panels DP, AC, A, and R with existing and future loads when added?

A: Existing Panel A will be feed from New Panel-DP loads will be revised. Refer to Addendum #1 sheet E-08/ detail #1 and #2.

Q: Panel-A has an existing 2-pole 60A breaker feeding existing Panel-B. The new Panel-B requires a 100A breaker. We recommend that the 2-pole 60A breaker be upgraded to a 2-pole 100A.

A: This will need to be changed to a 100amp, single phase 2-pole breaker. Refer to Addendum #1 sheet E-09/ Panel schedule "A".

Q: To get power to the GC's job trailer in the east parking lot. Will there be a problem to place utility poles on each side of entry roadway? This is needed to cross power over from new Panel DP for temporary power.

A: Power poles will be acceptable per TPWD so long as they are removed at the close of the project and provide a minimum 14' clearance for road traffic.

Q: In the existing electrical room, there is a communications pipe coming from underground (please see attached photos). Would this pipe need to be relocated to accommodate the new door or leave as is?

A: Demark well be called to be relocated and communication stub up will remain. Does not conflict with door. Refer to Addendum #1 sheet E-03.

Bidders shall acknowledge receipt of this addendum in the space provided on the Contractor's Bid Schedule form located above the signature block. WARNING: BIDDER'S FAILURE TO ACKNOWLEDGE RECEIPT OF ADDENDA MAY RESULT IN REJECTION OF BID.

END OF ADDENDUM NUMBER 1

Sincerely,

MICHAEL POLENDO, CTCD, CTCM
Contract Manager
Infrastructure Division

DEMOLITION PLAN CONSTRUCTION KEYNOTES

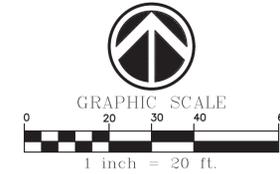
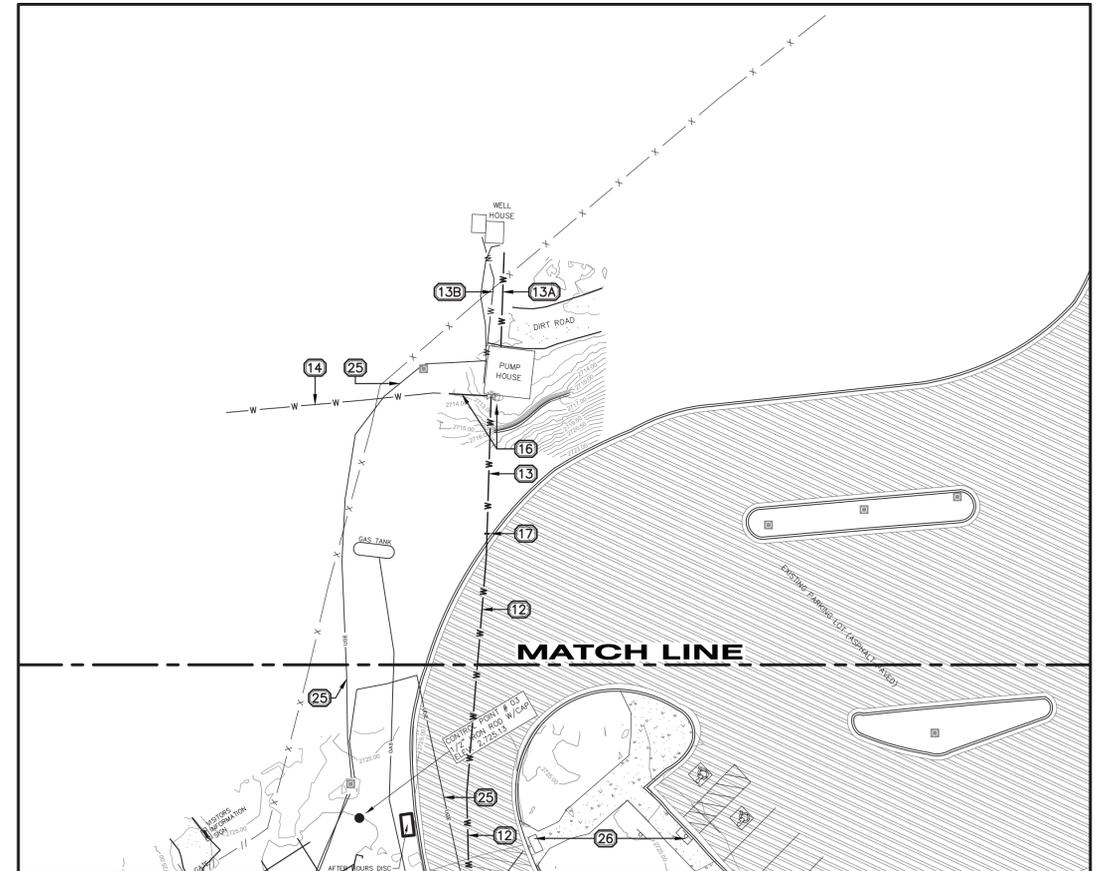
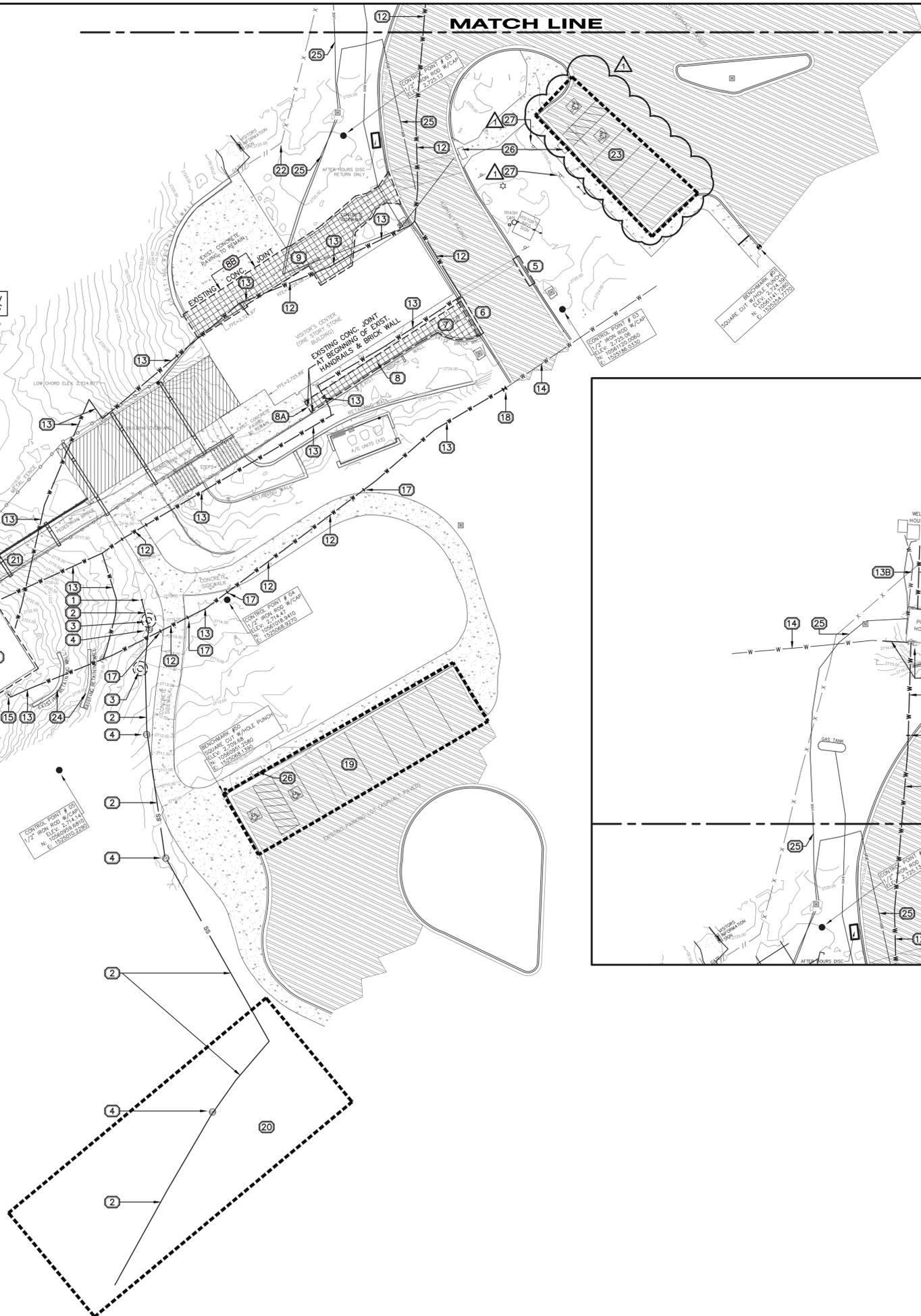
- 1 INSTALL TEMPORARY PVC PLUG.
- 2 EXISTING SANITARY SEWER LINE TO BE COMPLETELY REMOVED.
- 3 EXISTING SEPTIC TANK TO BE COMPLETELY REMOVED.
- 4 EXISTING SANITARY SEWER CLEAN-OUT TO BE COMPLETELY REMOVED.
- 5 EXISTING 10 FEET OF CONCRETE CURB TO BE SAW CUT AND REMOVED.
- 6 EXISTING 16.5 FEET OF CONCRETE CURB TO BE SAW CUT AND REMOVED.
- 7 EXISTING FLAG POLE TO BE RELOCATED (SEE INSET "A" ON PAGE C-06).
- 8 EXISTING CONCRETE SIDEWALK TO BE COMPLETELY REMOVED. SAW CUT AT THE EDGE OF EXISTING BRICK WALL TO AVOID DAMAGE TO SAID WALL. EXISTING WATER LINE MIGHT BE IN THE WAY OF SIDEWALK REMOVAL. CONTRACTOR TO PROCEED WITH CAUTION. CONCRETE REMOVAL SHALL EXTEND UP TO ROUND AREA WHERE EXISTING FLAGPOLE IS LOCATED.
- 8A EXISTING CONCRETE JOINT AND STARTING POINT OF CONCRETE SIDEWALK REMOVAL. CONCRETE REMOVAL SHALL EXTEND UP TO ROUND AREA WHERE EXISTING FLAGPOLE IS LOCATED.
- 8B EXISTING CONCRETE JOINT AND STARTING POINT OF CONCRETE SIDEWALK REMOVAL. EXISTING CONCRETE SIDEWALK LOCATED TO THE NORTH OF JOINT SHALL NOT BE DAMAGED.
- 9 EXISTING CONCRETE SIDEWALK TO BE COMPLETELY REMOVED. CONCRETE SHALL BE REMOVED AT THE JOINT (AS INDICATED HEREIN) AT CONCRETE AREA ADJACENT TO THE NORTH. AREAS ADJACENT TO THE BUILDING SHALL BE SAW CUT. EXISTING RETAINING WALL SHALL NOT BE DAMAGED. EXISTING UNDERGROUND ELECTRICAL WIRING AND WATER LINE MIGHT BE IN THE WAY OF SIDEWALK REMOVAL. CONTRACTOR TO PROCEED WITH CAUTION.
- 9A EXISTING CONCRETE LOCATED TO THE NORTH OF THIS JOINT SHALL NOT BE DAMAGED.
- 10 EXISTING CONCRETE FLATWORK TO BE COMPLETELY REMOVED (REFER TO ARCHITECTURAL PLANS FOR PROPOSED IMPROVEMENTS).
- 11 EXISTING BUILDING TO BE COMPLETELY REMOVED (REFER TO ARCHITECTURAL PLANS FOR PROPOSED IMPROVEMENTS).
- 12 EXISTING WATER LINE TO BE ABANDONED IN PLACE AFTER NEW SYSTEM HAS BEEN FULLY INSTALLED. THIS APPLIES TO ALL EXISTING WATER LINES LOCATED UNDER "HARD SURFACES" (CONCRETE SIDEWALKS, ASPHALT AND CONCRETE PAVEMENT). CONTRACTOR SHALL INSTALL PLUGS ON WATER LINES AT BOTH ENDS OF SAID "HARD SURFACES".
- 13 EXISTING WATER LINE TO BE COMPLETELY REMOVED. THIS APPLIES TO ALL EXISTING WATER LINES LOCATED IN GREEN/UNIMPROVED AREAS.
- 13A REPLACE LINE COMING FROM WELL HOUSE TO PUMP HOUSE WITH A 2" PVC SCHEDULE 40 WATER LINE.
- 13B EXISTING WATER LINE TO BE CONNECTED TO PROPOSED 2" PVC SCHEDULE 40 WATER LINE, FITTINGS AS NEEDED (SEE C-04 PLAN).
- 14 EXISTING WATER LINE TO REMAIN IN PLACE.
- 15 EXISTING WATER VALVE TO BE REMOVED.
- 16 SECTION OF EXISTING WATER LINE, WATER VALVE AND HOSE BIBB TO BE REMOVED.
- 17 PROPOSED PLUG TO ISOLATE WATER LINES TO BE ABANDONED IN PLACE.
- 18 PROPOSED SHUT OFF VALVE AT NO MORE THAN 2' BEHIND BACK OF CURB (SEE ALSO "WATER DISTRIBUTION SYSTEM AND DETAILS" PLAN).
- 19 EXISTING INTERNATIONAL SURFACE PAINTED SYMBOLS OF INTERNATIONAL ACCESSIBILITY AND STRIPING SHALL BE REMOVED. PROPOSED RE-STRIPING TO ACCOMMODATE 9 PARKING SPACES OF EQUAL WIDTH (REFER TO SEE SHEET C-06 FOR RE-STRIPING DIMENSIONS).
- 20 APPROXIMATE AREA TO BE CLEARED OF TREES, VEGETATION, ETC., FOR THE INSTALLATION OF DRAINFIELD (±5,500 SQUARE FEET).
- 21 SAW CUT EXISTING FLATWORK TO RETAIN FOOTING.
- 22 REMOVE FOR RELOCATION THIS SECTION OF FENCE IF ALTERNATE #1 PROCEEDS (PAVILION).
- 23 EXISTING INTERNATIONAL SURFACE PAINTED SYMBOLS OF INTERNATIONAL ACCESSIBILITY AND STRIPING SHALL BE REMOVED. PROPOSED RE-STRIPING TO ACCOMMODATE 5 PARKING SPACES AND ACCESSIBLE AISLE OF EQUAL WIDTH EACH (REFER TO SEE SHEET C-06 FOR RE-STRIPING DIMENSIONS).
- 24 EXISTING RETAINING WALLS TO BE DEMOLISHED.
- 25 EXISTING LOCATION OF ELECTRICAL LINE(S). CONTRACTOR TO REFER TO MEP PLANS FOR ABANDONMENT AND RELOCATION OF ELECTRICAL SERVICE LINES.
- 26 RAMP AND TRUNCATED DOMES TO BE REMOVED.
- 27 EXISTING A.D.A. SIGNS TO BE REMOVED. 

NOTE:
REFER TO ARCHITECTURAL PLANS FOR ALL THE AREAS TO BE DISTURBED DUE TO CONSTRUCTION ACTIVITIES.

MAP LEGEND

-  FOUND No. 4 REBAR
-  BENCHMARK(S)
-  EXISTING FLAG POLE
-  EXISTING TELEPHONE PEDESTAL
-  EXISTING LIGHT POLE
-  EXISTING SINGLE POLE SIGN
-  EXISTING ELECTRICAL BOX
-  EXISTING HOSE BIBB
-  EXISTING WATER METERS TO REMAIN IN PLACE
-  EXISTING WATER VALVE
-  EXISTING SANITARY SEWER CLEANOUT
-  EXISTING SANITARY SEWER LINE (SIZE TBD)
-  EXISTING WATER LINE (SIZE TBD)
-  EXISTING UNDERGROUND ELECTRICAL LINE
-  EXISTING METAL HANDRAILS
-  EXISTING METAL FENCE
-  EXISTING CHAIN LINK FENCE TO REMAIN IN PLACE
-  EXISTING ASPHALT PAVEMENT TO REMAIN.
-  EXISTING CONCRETE SURFACES TO REMAIN.
-  EXISTING CONCRETE SURFACES TO BE REMOVED.

CONTOURS SHOWN ON THIS PLAN
REFLECT EXISING CONTOURS



TEXAS
PARKS &
WILDLIFE



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CARLOS GARZA, E. #92602 ON 03-19-2021

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE LAW

Monahans Sandhills State Park
 Visitors Center & Section House Renovations
 1110169

DATE: 03/19/2021
DESIGNED BY: J.D'Z.
DRAWN BY: J.D'Z.
REVIEWED BY: C.G.

REVISED:
 ADD1 5/07/21
PARKING SPACES STRIPING TO BE REMOVED.
A.D.A. SIGNS TO BE REMOVED.

SHEET TITLE

DEMOLITION CONTROL PLAN

SHEET NUMBER

C-03

A Texas Registered Engineering Firm F-9688

AEC ENGINEERING, LLC.
Agricultural * Environmental * Civil

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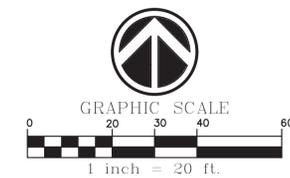
www.aecengineering.net

100% CONSTRUCTION DOCUMENTS

**DEMENSIONING PLAN
CONSTRUCTION KEYNOTES**

1. PARKING FACILITY PAINTED STRIPING CONSISTING OF 4" WHITE PAINT. ALL PAINT FOR PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF SOLVENTBORNE APPLICATION RECOMMENDATIONS.
2. PARKING FACILITY PAINTED STRIPING CONSISTING OF 4" WHITE PAINT, INCLUDING SYMBOL OF INTERNATIONAL ACCESSIBILITY, ACCESSIBLE AISLE STRIPING AND "NO PARKING" LEGEND. PROPOSED SURFACE PAINTED "NO PARKING" LEGEND ON ACCESS AISLE ADJACENT TO HANDICAP DESIGNATED STALLS MUST BE CAPITAL LETTERS, AT LEAST 12" IN HEIGHT, AND STROKE WIDTH OF NO LESS THAN 2". ALL PAINT FOR PAVEMENT MARKINGS SHALL MEET THE REQUIREMENTS OF SOLVENTBORNE APPLICATION RECOMMENDATIONS. (SEE DETAIL THIS SHEET).
3. PROPOSED HANDICAP PARKING SIGN (SEE DETAIL THIS SHEET)

SIDEWALK CONCRETE JOINTS NOTES:
EXPANSION JOINTS SHALL BE LOCATED EVERY 30 FEET.
CONTROL JOINTS SHALL BE LOCATED EVERY 6 FEET.



MAP LEGEND

●	FOUND No. 4 REBAR
◆	BENCHMARK(S)
⊕	EXISTING FLAG POLE
⊕	EXISTING TELEPHONE PEDESTAL
☆	EXISTING LIGHT POLE
⊕	EXISTING SINGLE POLE SIGN
⊕	EXISTING ELECTRICAL BOX
⊕	EXISTING HOSE BIBB
⊕	EXISTING WATER METERS TO REMAIN IN PLACE
⊕	EXISTING WATER VALVE
⊕	PROPOSED WATER VALVE
⊕	EXISTING SANITARY SEWER CLEANOUT
⊕	EXISTING SANITARY SEWER LINE (SIZE TBD)
⊕	EXISTING WATER LINE (SIZE TBD)
⊕	EXISTING UNDERGROUND ELECTRICAL LINE
⊕	EXISTING METAL HANDRAILS
⊕	EXISTING METAL FENCE
⊕	EXISTING CHAIN LINK FENCE TO REMAIN IN PLACE
▨	EXISTING ASPHALT PAVEMENT TO REMAIN.
▨	EXISTING CONCRETE SURFACES.
▨	PROPOSED CONCRETE SURFACES.

**TEXAS
PARKS &
WILDLIFE**

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Monahans Sandhills State Park
Visitors Center & Section House Renovations
1110169

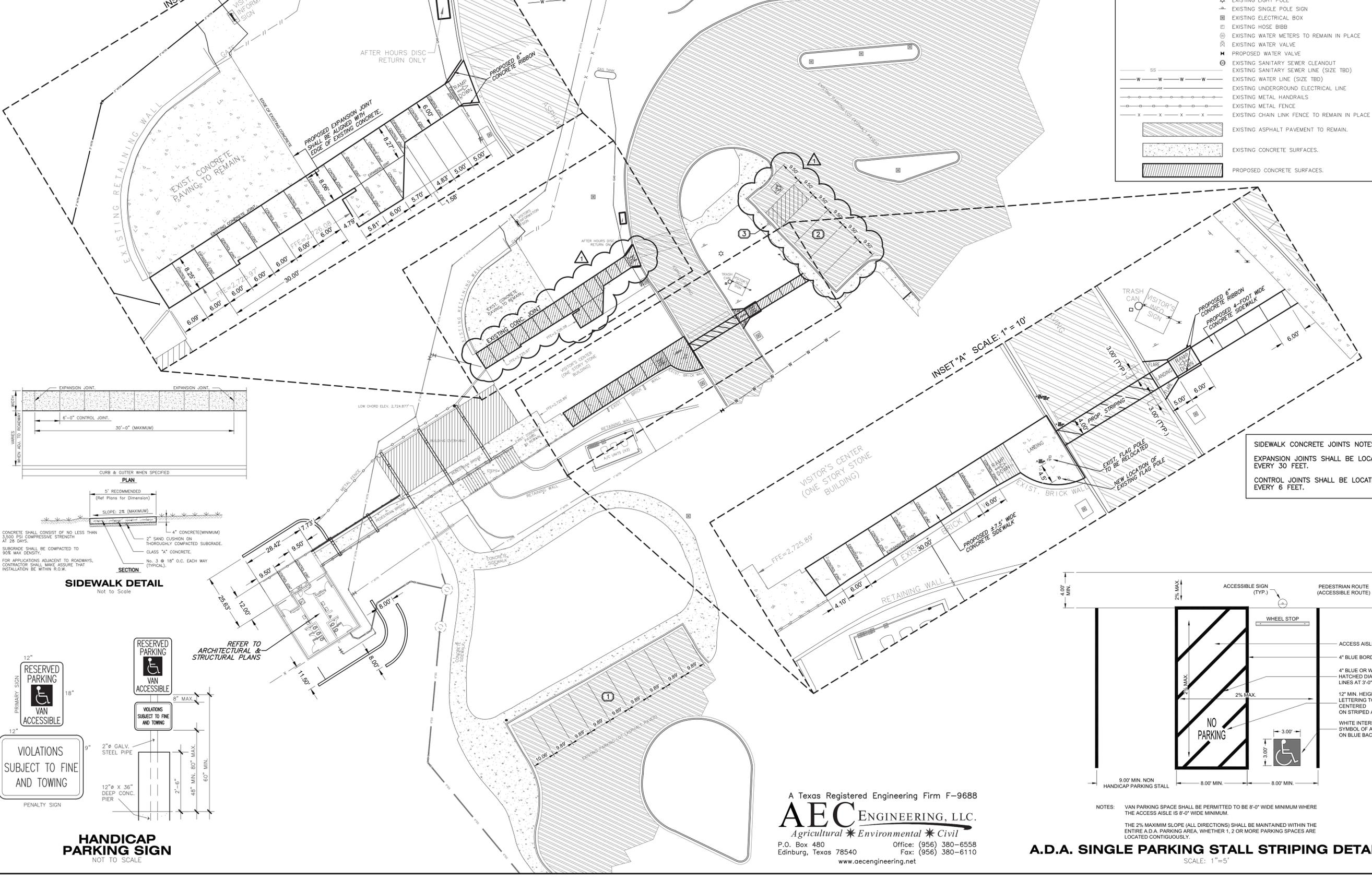
DATE: 03/19/2021
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 REVIEWED BY: C.C.

REVISED:
 ADD1 5/07/21
 SIDEWALK WAS STRAIGHTENED, GRADES REVISED TO MEET A.D.A. REQ.

PARKING SPACES RE-ARRANGED, A.D.A. SIGN ADDED.

SHEET TITLE
 DIMENSIONING PLAN

SHEET NUMBER
C-06



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100% CONSTRUCTION DOCUMENTS



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Monahans Sandhills State Park
Visitors Center & Section House Renovations
1110169

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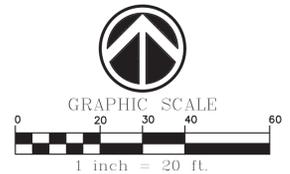
REVISED:
ADD1 5/07/21
SIDEWALK WAS STRAIGHTENED, GRADES REVISED TO MEET A.D.A. REQ.

PARKING SPACES RE-ARRANGED, A.D.A. SIGN ADDED.

SHEET TITLE
GRADING PLAN

SHEET NUMBER
C-07

100% CONSTRUCTION DOCUMENTS

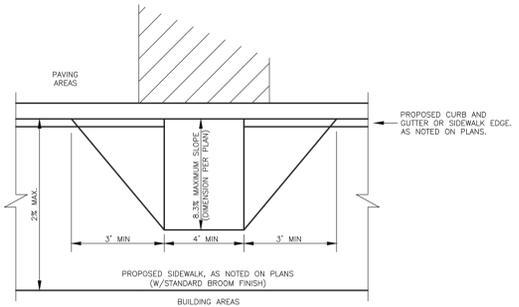


MAP LEGEND

- FOUND No. 4 REBAR
- ◆ BENCHMARK(S)
- ⊕ EXISTING FLAG POLE
- ⊕ EXISTING TELEPHONE PEDESTAL
- ⊕ EXISTING SINGLE POLE SIGN
- ⊕ EXISTING ELECTRICAL BOX
- ⊕ EXISTING HOSE BIBB
- ⊕ EXISTING WATER METERS TO REMAIN IN PLACE
- ⊕ EXISTING WATER VALVE
- ⊕ PROPOSED WATER VALVE
- ⊕ EXISTING SANITARY SEWER CLEANOUT
- EXISTING SANITARY SEWER LINE (SIZE TBD)
- EXISTING WATER LINE (SIZE TBD)
- EXISTING UNDERGROUND ELECTRICAL LINE
- EXISTING METAL HANDRAILS
- EXISTING METAL FENCE
- EXISTING CHAIN LINK FENCE TO REMAIN IN PLACE
- ▨ EXISTING ASPHALT PAVEMENT TO REMAIN.
- ▨ EXISTING CONCRETE SURFACES.
- ▨ PROPOSED CONCRETE SURFACES.

GRADE DESIGNATION

- TSWk — Top of Sidewalk Elevation
- TRibbon — Top of Concrete Ribbon Elevation
- TCurb — Top of Curb Elevation
- TGutter — Gutter Elevation
- TConc — Top of Concrete Elevation
- TAsph — Top of Asphalt Elevation
- TDet — Top of Detention Area
- FDet — Flow Line of Detention Area
- Ngt — Natural Ground Elevation
- FPipe — Flow line Pipe
- Chute — Flow line of Concrete Chute



SIDEWALK CURB RAMP
Not to Scale

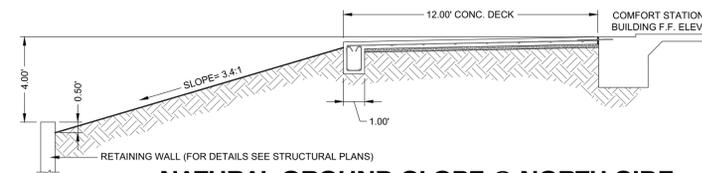
FIELD QUALITY CONTROL

Earthwork testing Percentage by weight by Owner's Testing Agency (ASTM E 699). Once prior to installation, Once per each gradation.

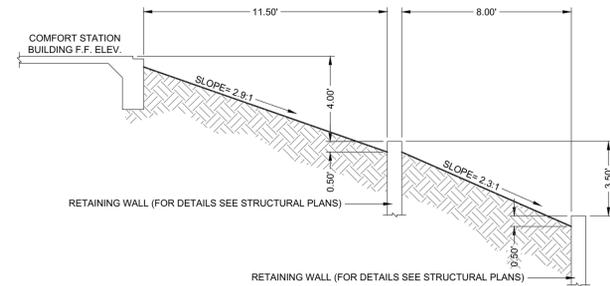
Earthwork Field Density Test by Owner's Testing Agency (ASTM D 1556 & ASTM D 2167). One field density test for every 2,000 sq.ft.

Portland Cement Concrete Testing by Owner's Testing Agency (ASTM D 1556 & ASTM D 2167). Three concrete test cylinders will be taken for every 75 or less cu yds of each class of concrete placed each day.

Portland Cement Concrete Paving— Slump Testing by Owner's Testing Agency (ASTM D 1556 & ASTM D 2167). One slump test will be taken for each set of test cylinders taken.



NATURAL GROUND SLOPE @ NORTH SIDE OF COMFORT STATION BUILDING
Not to Scale



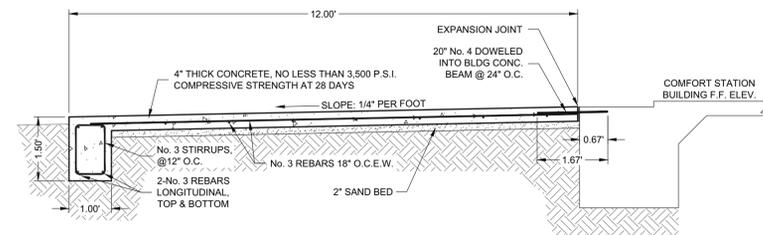
NATURAL GROUND SLOPE @ SOUTH SIDE OF COMFORT STATION BUILDING
Not to Scale

MAXIMUM SLOPES FOR FLATWORK SHALL BE 2% IN ALL DIRECTIONS (SEE "CONCRETE DECK AT COMFORT STATION DETAIL" THIS PAGE). CONTRACTOR SHALL GRADE AREAS BETWEEN BUILDING AND RETAINING WALLS FOLLOWING DETAILS PROVIDED ABOVE. AREAS BEYOND THE PERIMETER OF RETAINING WALLS SHALL BE GRADED AT A MAXIMUM SLOPE OF 3:1.

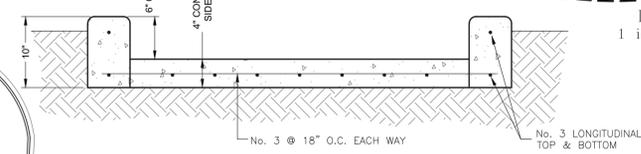
REFER TO ARCHITECTURAL & STRUCTURAL PLANS

STEEL NOTE:

MINIMUM CONCRETE COVER FOR ALL REBAR SHALL BE 2". REBAR SUPPORTED BY SADDLES/CHAIRS WHERE NEEDED.



CONCRETE DECK AT COMFORT STATION DETAIL
Not to Scale

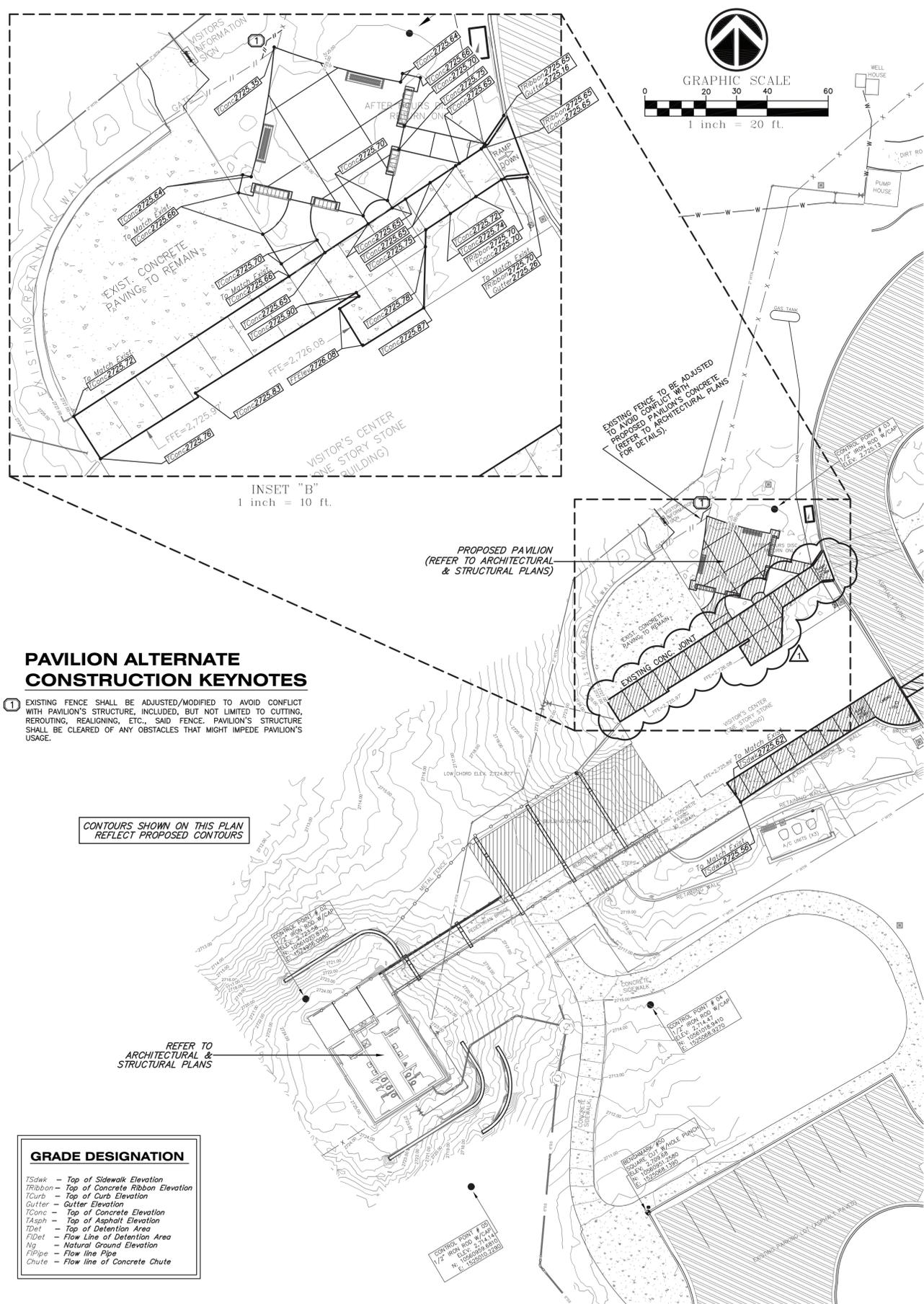


NOTES

1. CONCRETE SHALL CONSIST OF NO LESS THAN 3,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
2. TOP OF CURB TO HAVE 1" RADIUS ON BOTH EDGES.
3. CURBS MUST BE BRUSHED TO A SMOOTH AND UNIFORM FINISH.
4. FILL SHALL BE GRADED TO BE 2" LOWER THAN THE TOP OF RIBBON AND SIDEWALKS.
5. 6 INCHES SHALL BE CLEARED BETWEEN TOP OF RIBBON AND TOP OF SIDEWALK AT THE BOTTOM OF THE RAMP. TOP OF RIBBON AND TOP OF RAMP SHALL BE AT THE SAME ELEVATION AT THE TOP OF THE RAMP.

CONCRETE SIDEWALK WITH 6" RIBBONS AT A.D.A. RAMPS DETAIL
Not to Scale

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www.aecengineering.net



PAVILION ALTERNATE CONSTRUCTION KEYNOTES

- 1 EXISTING FENCE SHALL BE ADJUSTED/MODIFIED TO AVOID CONFLICT WITH PAVILION'S STRUCTURE, INCLUDED, BUT NOT LIMITED TO CUTTING, REROUTING, REALIGNING, ETC., SAID FENCE. PAVILION'S STRUCTURE SHALL BE CLEARED OF ANY OBSTACLES THAT MIGHT IMPEDE PAVILION'S USAGE.

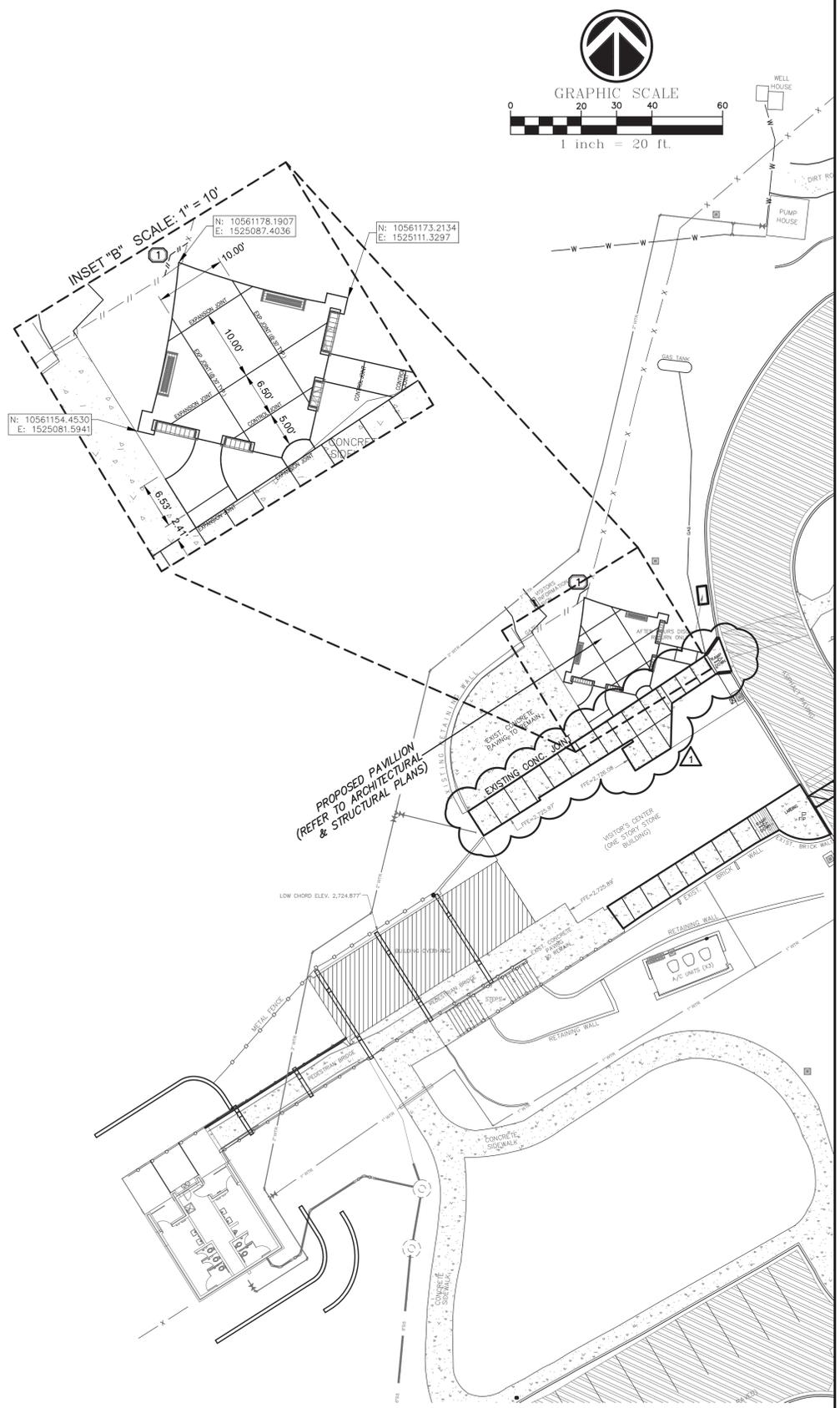
CONTOURS SHOWN ON THIS PLAN REFLECT PROPOSED CONTOURS

GRADE DESIGNATION

- Tsdwk - Top of Sidewalk Elevation
- Tribbon - Top of Concrete Ribbon Elevation
- Tcurb - Top of Curb Elevation
- Tgutter - Gutter Elevation
- Tconc - Top of Concrete Elevation
- Tasph - Top of Asphalt Elevation
- Tdet - Top of Detention Area
- Vdet - Flow Line of Detention Area
- Ng - Natural Ground Elevation
- FlPipe - Flow line Pipe
- Chute - Flow line of Concrete Chute

GRADING PLAN

SIDEWALK CONCRETE JOINTS NOTES:
 EXPANSION JOINTS SHALL BE LOCATED EVERY 30 FEET.
 CONTROL JOINTS SHALL BE LOCATED EVERY 6 FEET.



DIMENSIONING PLAN

A Texas Registered Engineering Firm F-9688

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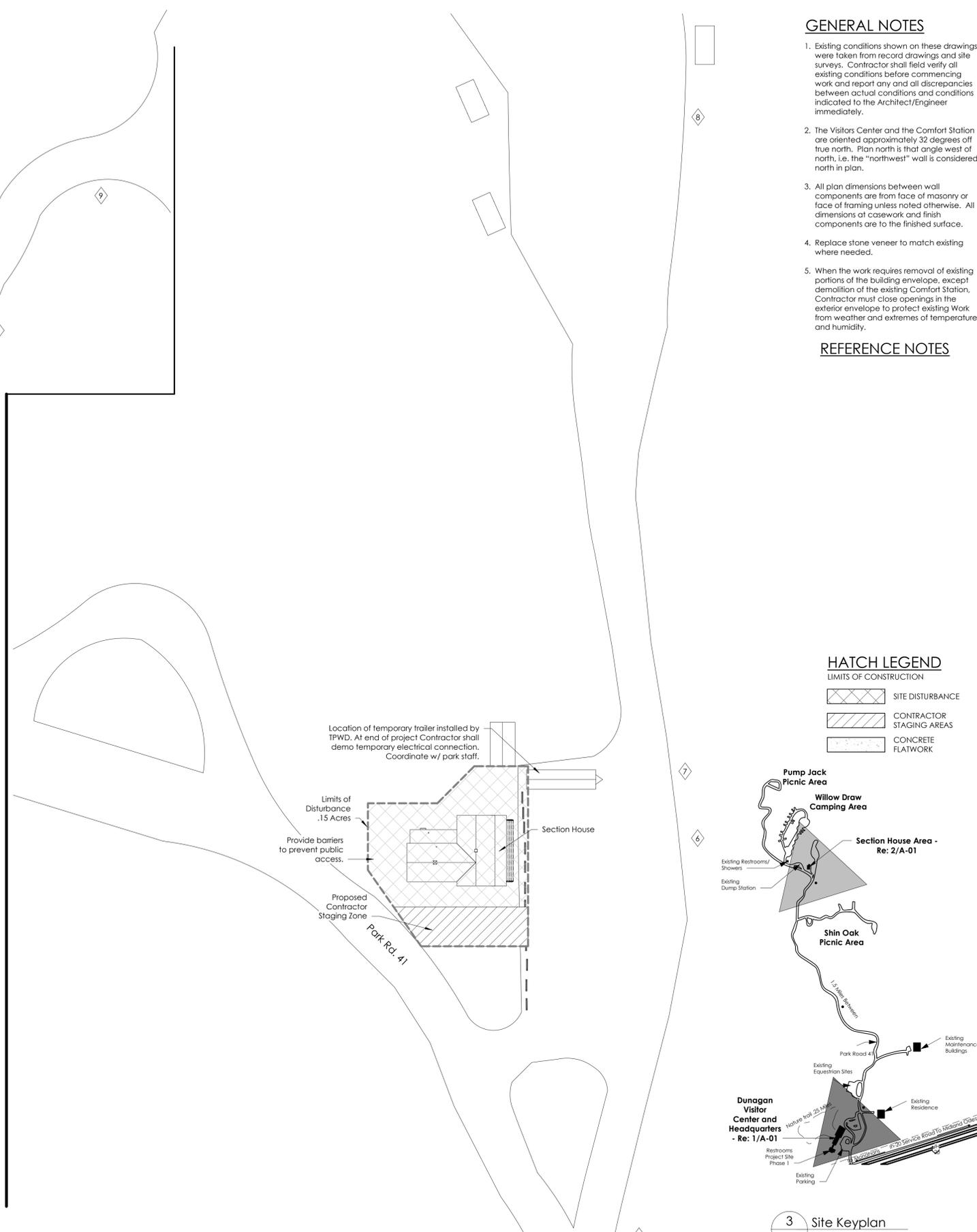
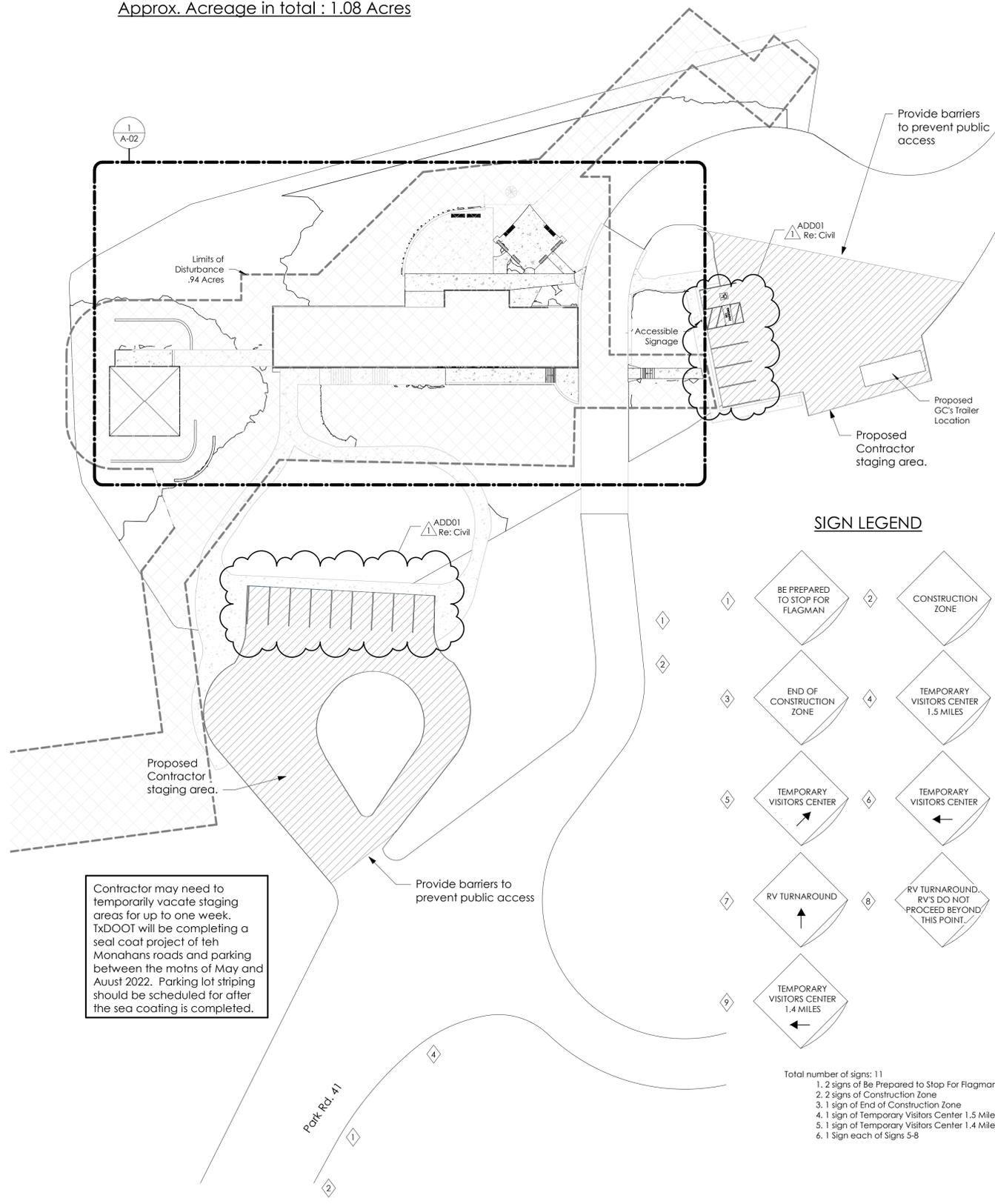
Monahans Sandhills State Park
 Visitors Center & Section House Renovations
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DATE: 03/19/2021
 DESIGNED BY: J.D.Z.
 DRAWN BY: J.D.Z.
 REVIEWED BY: C.C.
 REVISED:
 ADD 1 5/07/21
 SIDEWALK WAS STRAIGHTEN GRADES REVISED TO MEET ADA REQ.

SHEET TITLE
 PAVILION ALTERNATE GRADING & DIMENSIONING PLAN

SHEET NUMBER
 C-09

Approx. Square Feet for Contractor Staging Zone: 18,322 Sq.Ft.
 Approx. Square Feet for Limit of Disturbance: 48,879 Sq.Ft.
 Approx. Acreage in total : 1.08 Acres



GENERAL NOTES

- Existing conditions shown on these drawings were taken from record drawings and site surveys. Contractor shall field verify all existing conditions before commencing work and report any and all discrepancies between actual conditions and conditions indicated to the Architect/Engineer immediately.
- The Visitors Center and the Comfort Station are oriented approximately 32 degrees off true north. Plan north is that angle west of north, i.e. the "northwest" wall is considered north in plan.
- All plan dimensions between wall components are from face of masonry or face of framing unless noted otherwise. All dimensions at casework and finish components are to the finished surface.
- Replace stone veneer to match existing where needed.
- When the work requires removal of existing portions of the building envelope, except demolition of the existing Comfort Station, Contractor must close openings in the exterior envelope to protect existing Work from weather and extremes of temperature and humidity.

REFERENCE NOTES

**TEXAS
PARKS &
WILDLIFE**



5/06/2021
**NEGRET & KOLAR
ARCHITECTS LLP**
 11720 NORTH IH35
 AUSTIN, TEXAS 78753
 TEL. 512.474.6526
 WWW.NEKARCH.COM

Monahans Sandhills State Park
Visitors Center & Section House Renovations
 1110169

DATE: 5/06/2021
 DESIGNED BY: BWM
 DRAWN BY: NDM
 REVIEWED BY: BWM
 REVISED:
 ADD01 5/07/2021
 REVISED:

SHEET TITLE
 Architectural Site
 Plans Overall

SHEET NUMBER
A-01

1 Architectural Site Plan at Visitors Center Area
 A-01 SCALE: 1" = 30'-0" REF: A-05



2 Architectural Site Plan at Section House
 A-01 SCALE: 1" = 30'-0" REF: A-05



3 Site Keyplan
 A-01 SCALE: 6" = 1'-0" REF:

Visitors Center



5/06/2021
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Monahans Sandhills State Park
Visitors Center & Section House Renovations
1110169

DATE: 5/06/2021
DESIGNED BY: BWM
DRAWN BY: NDM
REVIEWED BY: BWM
REVISED:
ADD01 5/07/2021
REVISED:
REVISED:

SHEET TITLE
Architectural Site Plan
Visitors Center & Site
Details

SHEET NUMBER
A-02

GENERAL NOTES

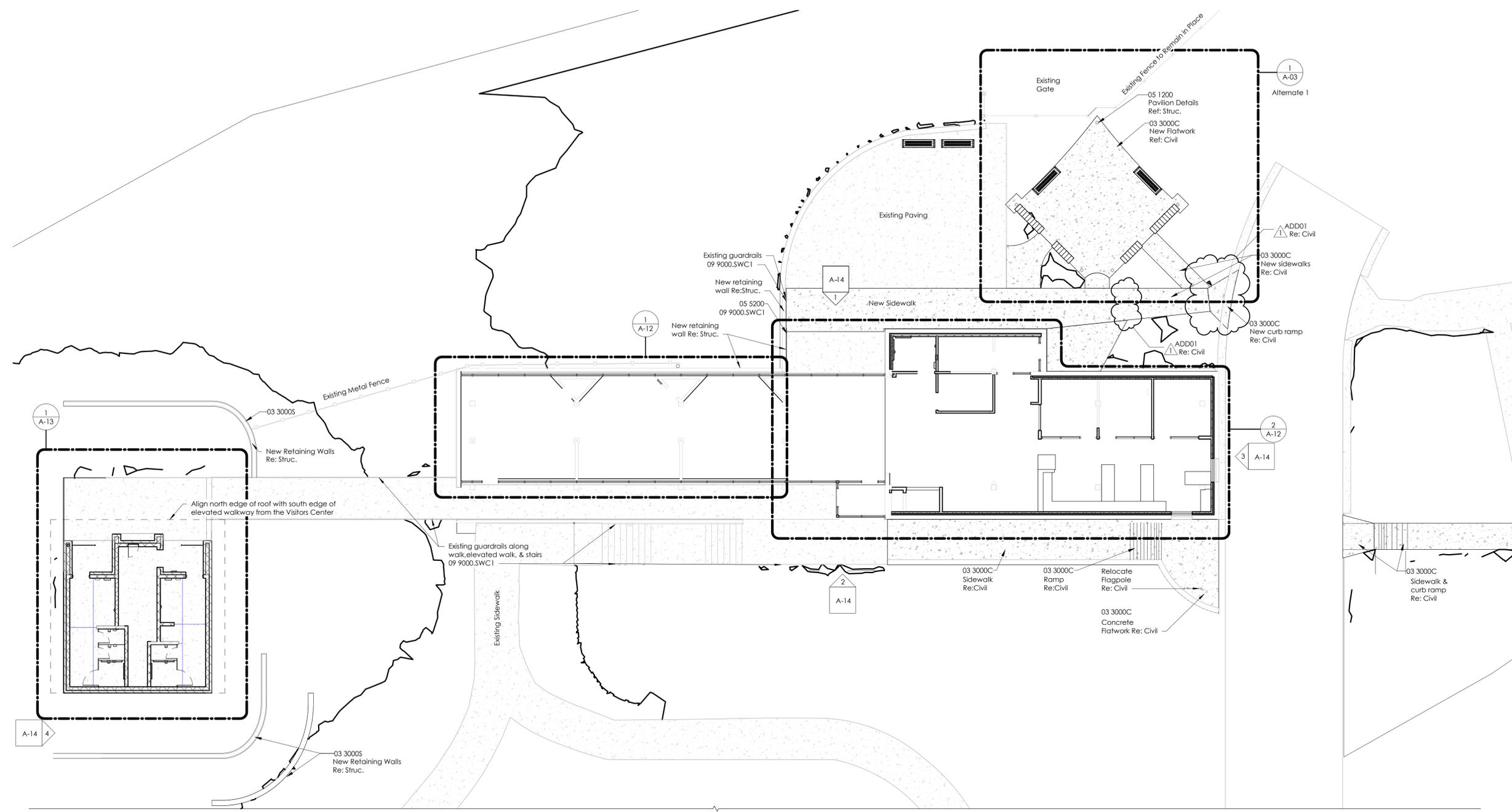
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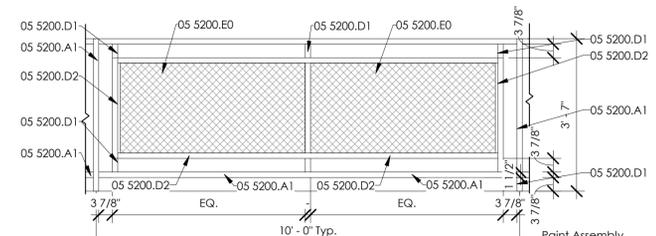
03 3000C	Cast-In-Place Concrete, Re: Civil
03 3000S	Cast-In-Place Concrete, Re: Struct
05 1200	Structural Steel Framing, Re:Struct.
05 5200	Metal Railings
05 5200.A1	Steel 1-1/2" Pipe Railing
05 5200.D1	1-1/2"x5/8" Steel Strip
05 5200.D2	1-1/2"x1/8" Steel Strip
05 5200.E0	Expanded Metal Mesh
05 5200.F0	Perforated Metal Panel

HATCH LEGEND

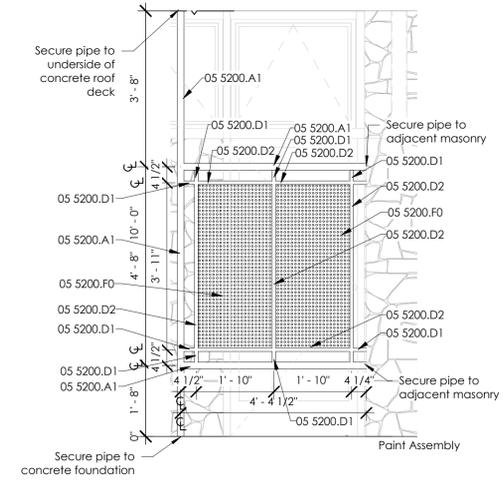
	LIMITS OF CONSTRUCTION
	SITE DISTURBANCE
	CONCRETE FLATWORK



1
Architectural Site Plan - Visitors Center and Comfort Station
SCALE: 1" = 10'-0" REF: A-01



2
Typical Guardrail Section Elevation
SCALE: 1/2" = 1'-0" REF: A-02



3
Comfort Station Metal Privacy Screen Detail
SCALE: 1/2" = 1'-0" REF: A-16

Visitors Center

DOOR & FRAME SCHEDULE													
Door No.	Doors					Frames							Hardware Set No.
	Door Type	Door Material	View Panel	Glass	Int / Exterior	Frame Type	Frame Mat.	Hinge Jamb	Strike Jamb	Head	Sill	Threshold	
101	6	08 4113.F4	FULL	08 8000.M5	Exterior	SF-3	08 4113.B1	9/A-10	8/A-10	4/A-10	13/A-10	14/A-10	004
102	5	08 4113.F4	FULL	08 8000.M5	Exterior	SF-1	08 4113.B1	11/A-10	16/A-10	4/A-10	13/A-10	14/A-10	004
103	3	08 4113.F1	FULL	08 8000.C1	Interior	SF-11	08 4113.A4	6/A-11	5/A-11	5/A-10 SIM.	13/A-11	14/A-11	001
105	4	08 4113.F1	FULL	08 8000.C1	Interior	SF-12	08 4113.A4	10/A-11	9/A-10	1/A-11	13/A-11	14/A-11	002
106	1	08 1416	-	-	Interior	HM-1	08 1213.A2	7/A-08	13/A-08	2/A-08	-	18/A-08	006
107	1	08 1416	-	-	Interior	HM-1	08 1213.A2	11/A-08	6/A-08	1/A-08	-	18/A-08	007
108	1	08 1416	-	-	Interior	HM-1	08 1213.A2	16/A-08	6/A-08	1/A-08	-	18/A-08	008
109	9	08 4116	-	-	Interior	HM-3	08 1213.A4	12/A-08	8/A-08	3/A-08	-	17/A-08	009
203	5	-	-	-	Exterior	-	See Type	See Type	1/A-10	13/A-10	-	14/A-10	010
204	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-
205	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-
302	8	10 2219	FULL	10 2219	Interior	DP-3	10 2219	9/A-08	10/A-08	5/A-08	19/A-08	20/A-08	MFG.
303	8	10 2219	FULL	10 2219	Interior	DP-2	10 2219	14/A-08	10/A-08	5/A-08	19/A-08	20/A-08	MFG.
304	8	10 2219	FULL	10 2219	Interior	DP-1	10 2219	15/A-08	14/A-08	5/A-08	19/A-08	20/A-08	MFG.
401	7	08 4113.F4	FULL	08 4113.D4	Exterior	SF-6	08 4113.B2	7/A-11 O.H	8/A-11	4/A-11	17/A-11	16/A-11	003
402	2	08 1313.13 B0	-	-	Exterior	HM-2	08 1213.A5	5/A-09 O.H	5/A-09	1/A-09	-	9/A-09	005
403	10	08 4113.F4	FULL	08 4113.D4	Exterior	SF-6	08 4113.B2	7/A-11	8/A-11 O.H	4/A-11	17/A-11	16/A-11	003
502	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-
502B	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-
503	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-
504	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-
505	Existing	-	-	-	Existing	-	-	-	-	-	-	-	-

ROOM SCHEDULE													
ROOM NUMBER	ROOM NAME	FLOOR	MATERIAL	BASE	WALL FINISH			CEILING		NOTES			
					NORTH	EAST	SOUTH	WEST	MATERIAL		HEIGHT		
101	South Vestibule	PC	-	GLAZ	-	GLAZ	EST	GLAZ	GLAZ	PXST/SAP	10'-0"	-	-
102	North Vestibule	PC	RB*	GLAZ	GLAZ	GLAZ	EST	GLAZ	GLAZ	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
103	DF Vestibule	PC	RB*	GLAZ/PCMU	PGB/DPT/PCMU	-	-	PGB	PGB	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
104	Store East	PC	RB*	PGB	PGB/DPT	PCMU/PGB	-	PGB	PGB	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
105	Store West	PC	-	GLAZ	-	GLAZ	-	GLAZ	GLAZ	PXST/SAP	10'-0"	-	-
106	Staff Toilet	PC	PT*	PCMU	PT	PT	PT	PCMU	PCMU	PXST/PXM	10'-0"	-	PT BASE @ PT WALLS ONLY
107	Storage	PC	RB*	PGB	PGB	PGB	PGB	PGB	PGB	PXST/SAP	10'-0"	-	-
108	Custodial/Elect.	PC	RB*	GLAZ/PCMU	PGB	PGB	PGB	PMRB	PMRB	PXST	10'-0"	-	* RB @ PGB/PMRB ONLY
109	Mechanical	WD	-	GB	GB	PCMU	ECMU	XST	XST	XST	10'-0"	-	-
201	Exhibit East	PC	RB*	GLAZ/PCMU	PGB	PGB	PGB	GLAZ	GLAZ	PXST/SAP	10'-0"	-	-
202	Exhibit Center	PC	RB*	GLAZ/PCMU	PGB	PGB	PGB	GLAZ	GLAZ	PXST/SAP	10'-0"	-	-
203	Exhibit West	PC	RB*	GLAZ/PCMU	PGB	PGB	PGB	GLAZ	GLAZ	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
204	HVAC2	-	-	EIN	EIN	EIN	EIN	XST	XST	XST	10'-0"	-	-
205	HVAC1	-	-	EIN	EIN	EIN	EIN	XST	XST	XST	10'-0"	-	-
301	Open Office	PC	RB*	DPT/PGB	PCMU	PCMU	-	PXST/SAP	PXST/SAP	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
302	Office/Conference	PC	RB*	PCMU	PGB	DPT	PGB/DPT	PXST/SAP	PXST/SAP	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
303	Office	PC	RB*	PCMU	PGB	DPT	PGB	PXST/SAP	PXST/SAP	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
304	Break Room	PC	RB*	PCMU	PCMU	PGB/DPT	PGB	PXST/SAP	PXST/SAP	PXST/SAP	10'-0"	-	* RB @ PGB ONLY
401	Womens Comfort Station	TERR	-	PCMU	PCMU	PCMU	PCMU	SC	SC	SC	10'-0"	-	-
402	Chase	SC	-	CMU	CMU	CMU	CMU	SC	SC	SC	10'-0"	-	-
403	Mens Comfort Station	TERR	-	PCMU	PCMU	PCMU	PCMU	SC	SC	SC	10'-0"	-	-
404	Vestibule	SC	-	PXM	STN	STN	STN	SC	SC	SC	10'-0"	-	Exterior Space
405	Vestibule	SC	-	PXM	STN	STN	STN	SC	SC	SC	10'-0"	-	Exterior Space
500	Parlor	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	-	-	-
502	Saloon	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	-	-	-
503	Kitchen	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	-	-	-
504	Back Entry	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	-	-	-
505	Restroom	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	-	-	-
506	Sto.	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	XTR	-	-	-

SIGN SCHEDULE			
Room Installed	Location	Text L1	Sign Type
103	Mount to West wall East of door 103	EXIT	A
105	Mount on end of stone wall East of door 105	EXIT	A
105	Mount 18" from West of Staff restroom frame door 106	STAFF RESTROOM	E
203	Mount on East face of faux gyp board column. Center on column.	EXIT	B
404	Mount on East wall with CL 9" from Northend of wall.	MEN	C
405	Mount on West wall with CL 9" from North end of wall.	WOMEN	D

GENERAL NOTES

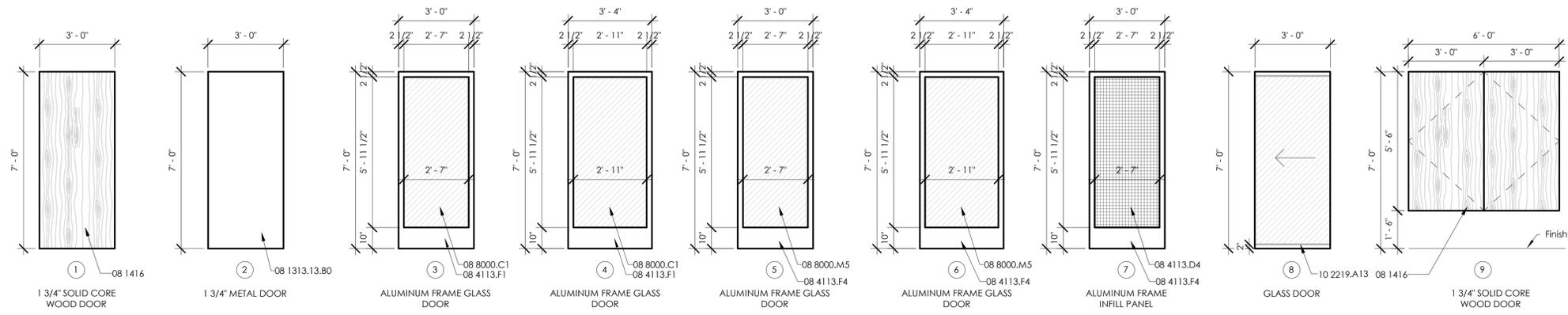
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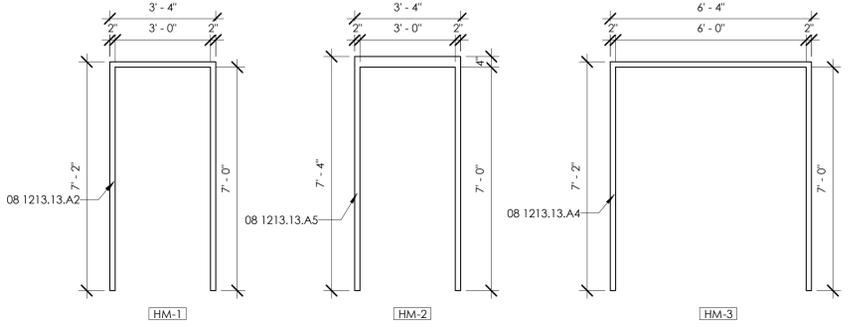
- 08 1213.13.A2 5 1/2" Equal Rabbet HM Door Frame
- 08 1213.13.A4 6 3/4" Equal Rabbet HM Door Frame
- 08 1213.13.A5 7 3/4" Equal Rabbet HM Door Frame
- 08 1313.13 Standard Hollow Metal Doors
- 08 1313.13.B0 Standard Hollow Metal Door - Thermally Insulated
- 08 1416 Flush Wood Doors
- 08 4113.A4 Aluminum Framing 2"x4-1/2"
- 08 4113.B1 Aluminum Framing 2"x4-1/2" Thermally Broken
- 08 4113.B2 Aluminum Framing 2"x6" Thermally Broken
- 08 4113.D4 Anodized Aluminum Faced Insulated Infill Panel
- 08 4113.F1 Narrow Slit Aluminum Entrance
- 08 4113.F4 Narrow Slit Aluminum Thermally Broken Entrance
- 08 8000.C1 1/4" Tempered Glass - Clear
- 08 8000.M5 1" Tempered Low-E Insulated Glazing (Triple Silver) - Tinted Light Green Cast Plaques
- 10 1416 Demountable Partitions
- 10 2219 Demountable Aluminum Framed Partition (Bottom Rail)
- 10 2219.A13

FINISH LEGEND		
DESIGNATION	Materials	Reference Notes
CEILING:		
PXM	PAINTED METAL SCREEN	05 5000, 09 9000
PXST	PAINTED EXPOSED STRUCTURE	09 9000
SAP	SUSPENDED ACOUSTICAL PANELS	09 5446
SC	SEALED CONCRETE	03 3000,03 3500
XST	EXPOSED STRUCTURE	-
XTR	EXISTING TO REMAIN	-
WD	WOOD	06 1000
FLOORING:		
PC	POLISHED CONCRETE	03 3500
SC	SEALED CONCRETE	03 3500
TERR	EPOXY TERRAZZO FLOORING	09 6623.16
XTR	EXISTING TO REMAIN	-
WALL BASE:		
PT*	PORCELAIN TILE	09 3000
RB*	RUBBER BASE @ GYP ONLY RE: 3/A.001	09 6500
RB	RUBBER BASE	09 6500
XTR	EXISTING TO REMAIN	-
WALLS:		
CMU	CONCRETE MASONRY UNIT	04 2000.A0
DPT	DEMOUNTABLE PARTITION	10 2219
ECMU	EXISTING CMU TO REMAIN	-
EG	EXISTING GYPSUM BOARD TO REMAIN	-
EIN	EXISTING INSULATION TO REMAIN	-
EST	EXISTING STONE TO REMAIN	-
EWD	EXISTING WOOD WALL TO REMAIN	-
GLAZ	GLAZED WALL	08 4113
GB	GYPSUM BOARD	09 2116.M2
PCMU	POLISHED FACE CMU	04 2000.FF0
PEGB	PAINT EXISTING GYPSUM BOARD	09 9000.A0
PGB	PAINTED GYPSUM BOARD	09 2116.M2, 09 9000.A0
PXM	PAINTED METAL SCREEN	05 5000, 09 9000
PMRB	PAINTED MOISTURE RESISTANT BOARD	09 2116.M4, 09 9000
STN	STONE	04 4213
XTR	EXISTING TO REMAIN	-
NOTES:		
REMARKS	INSUL & INSULATED FRAMED PARTITIONS	07 21 16.A0

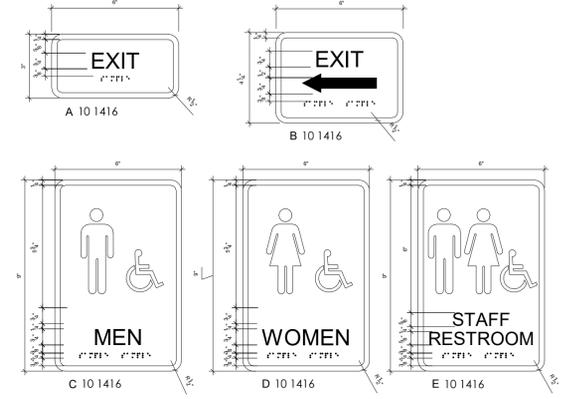
WINDOW SCHEDULE					
Type Mark	Keynote	Operation	Height	Sill Height	Width
W1	08 56 53	Transom Window	4'-0"	3'-0"	4'-6"



1 Door Types
A-04 SCALE: 3/8" = 1'-0" REF:



2 Hollow Metal Fram Types
A-04 SCALE: 3/8" = 1'-0" REF:



3 Signage Size
A-04 SCALE: 3" = 1'-0" REF:

TEXAS PARKS & WILDLIFE

REGISTERED ARCHITECT
STATE OF TEXAS
1964

5/06/2021

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SHEET TITLE
Door/Room Finish Schedules, Door & Signs Types

SHEET NUMBER
A-04

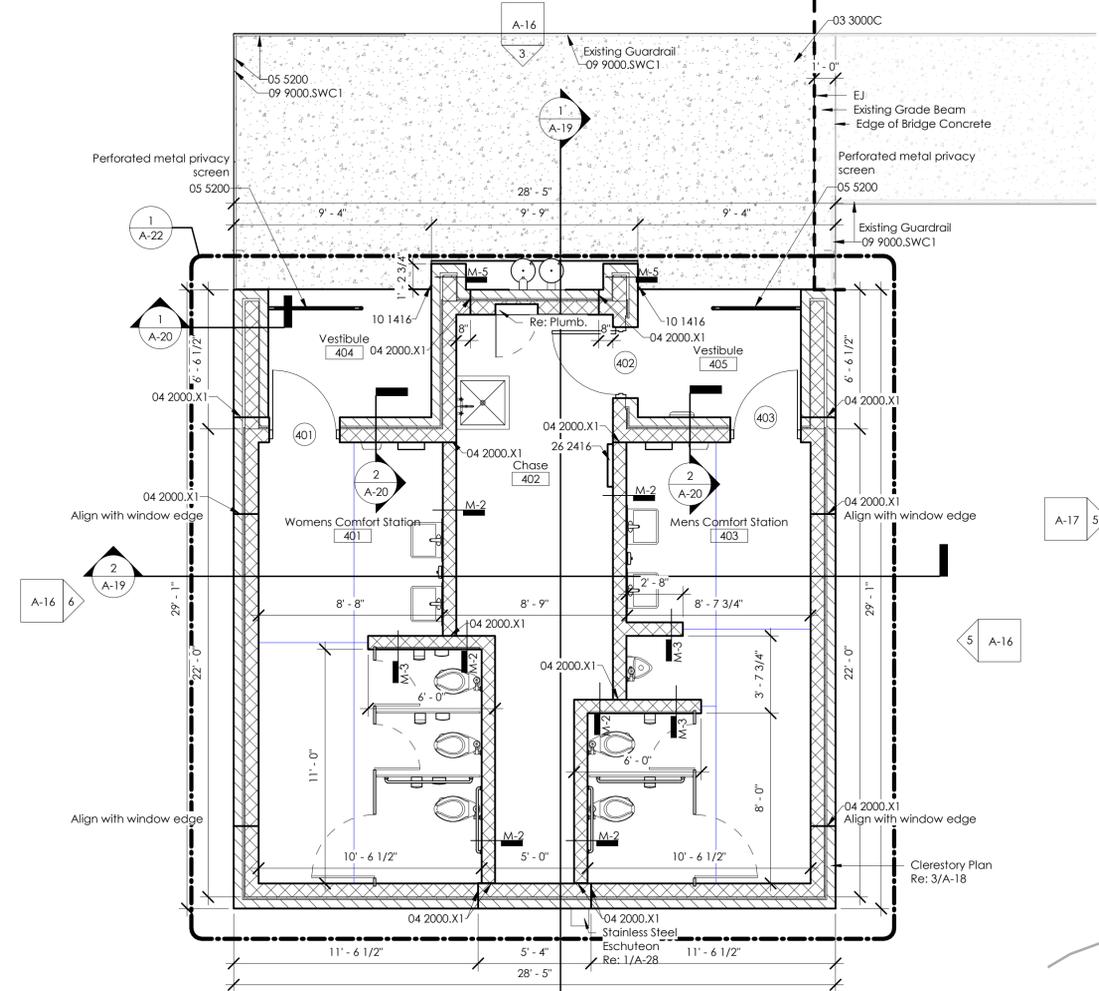


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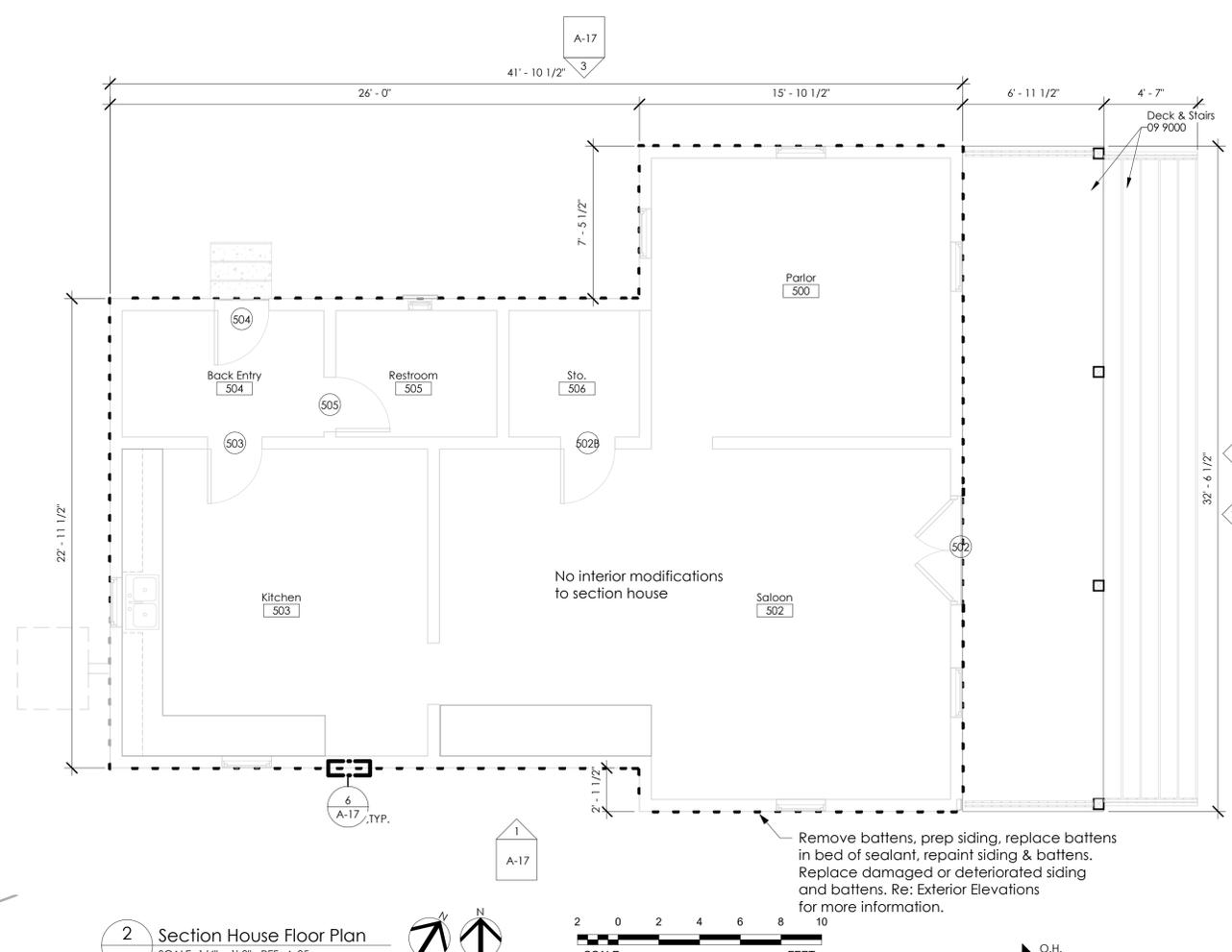
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- Surface mounted conduit and Jboxes that are currently painted the sand color is to be painted color to match surface to which it is attached or nearest surface (e.g. conduit run along underside of porch paint to match soffit/rafter color)
- For exterior electrical outlets where the exterior enclosure has been painted sand, paint the enclosure to match surface to which it is attached. Mask off outlet.
- For wall mounted light fixtures, mask off fixture.
- For under soffit light fixtures at porch, remove light fixtures prior to painting and reinstall after painting complete.

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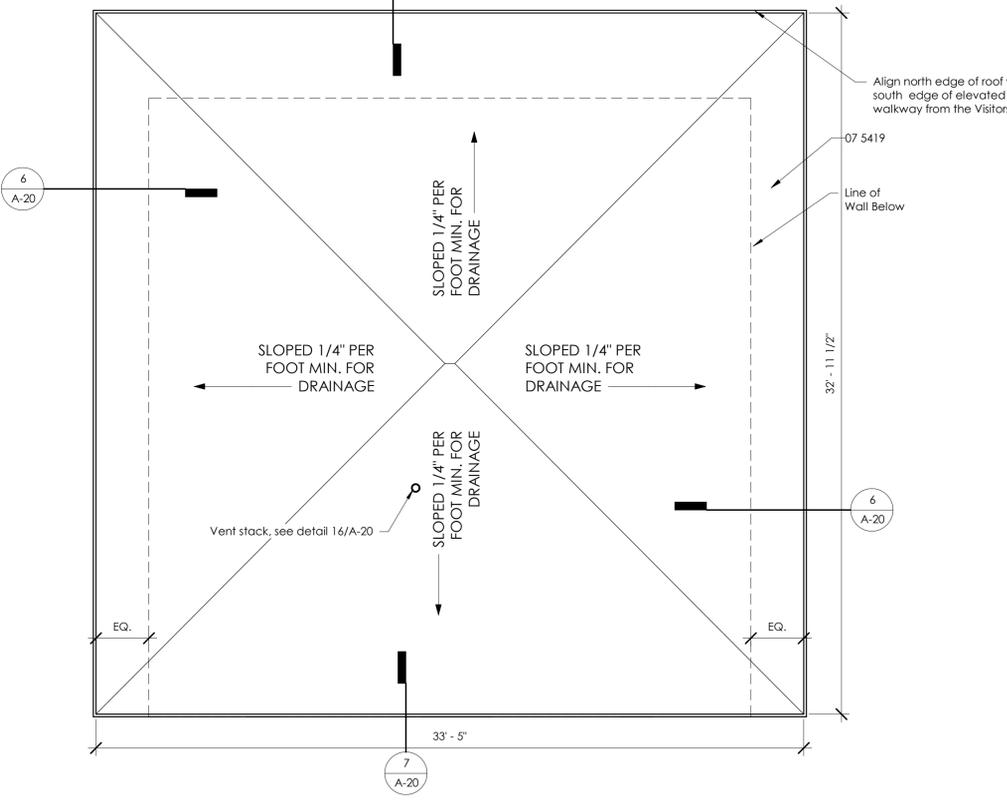
ADD01	03 3000C	Cas-In-Place Concrete, Re: Civil
	04 2000.X1	Control Joint Filler
	05 5200	Metal Railings
	07 3200	Composite Roof Tiles
	07 3200.B0	Underlayment
	07 5419	Fully Adhered Multi-Ply Roof System
	09 9000	Painting and Coating
	09 9000.SWC1	Custom Color to Match
	10 1416	Cast Plaques
	26 2416	Panelboards, Re: Elec.



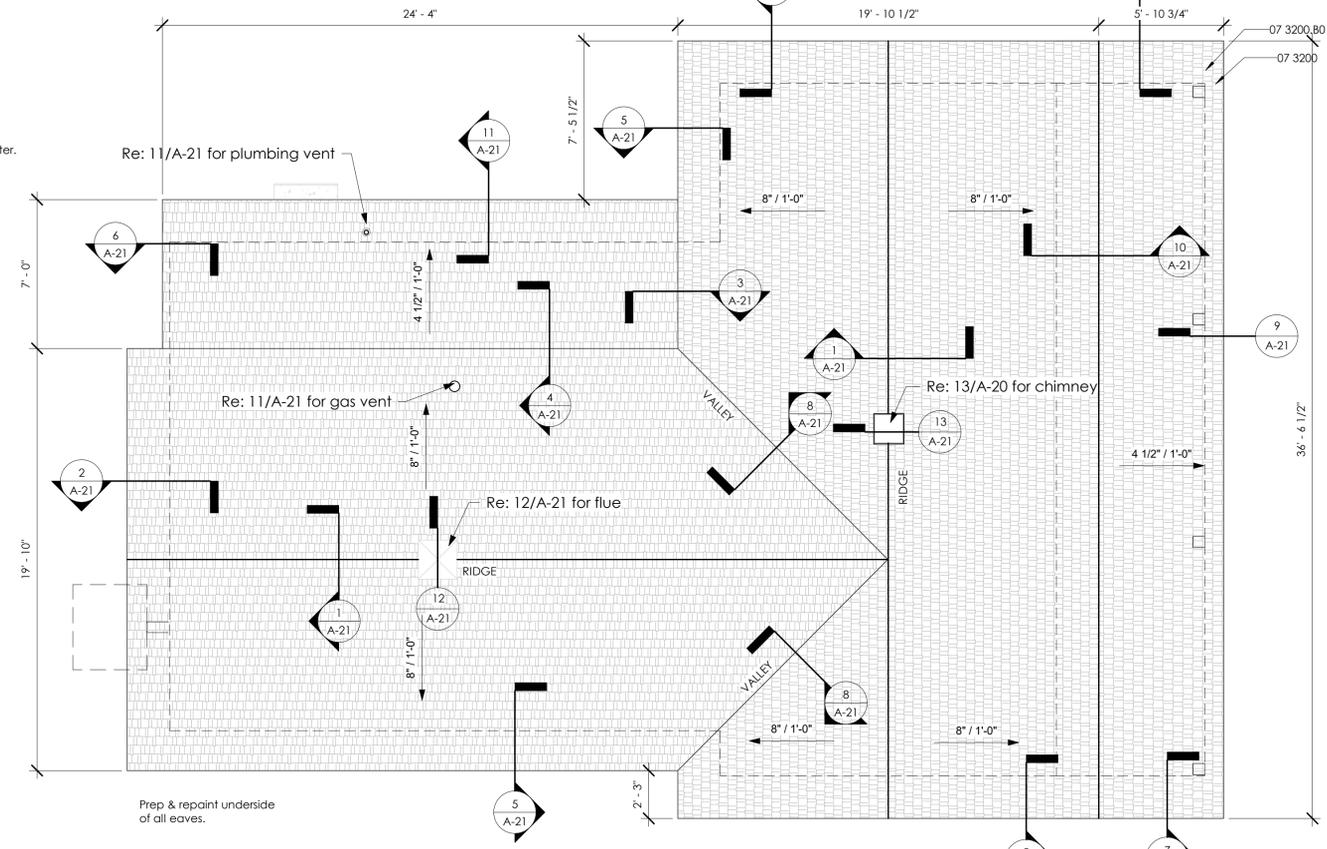
1 Comfort Station Floor Plan
A-13 SCALE: 1/4" = 1'-0" REF: A-02



2 Section House Floor Plan
A-13 SCALE: 1/4" = 1'-0" REF: A-05



3 Comfort Station Roof Plan
A-13 SCALE: 1/4" = 1'-0" REF: A-05



4 Section House Roof Plan
A-13 SCALE: 1/4" = 1'-0" REF: A-05



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ADD01 5/07/2021
REVISED:

SHEET TITLE
Exterior Elevations
Section House

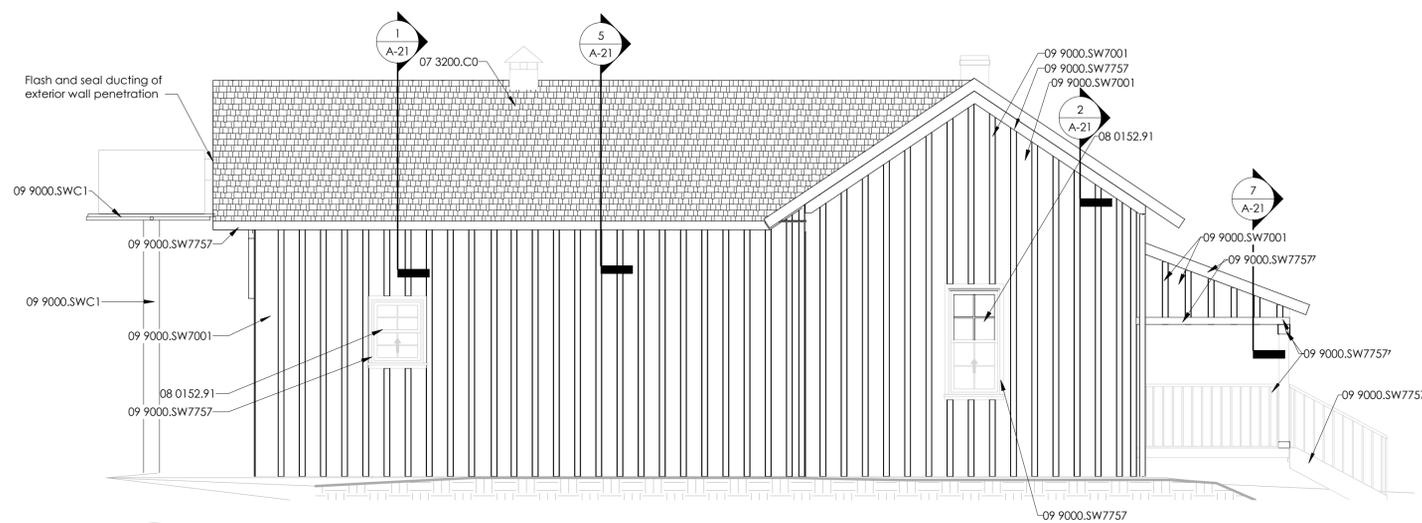
SHEET NUMBER
A-17

GENERAL NOTES

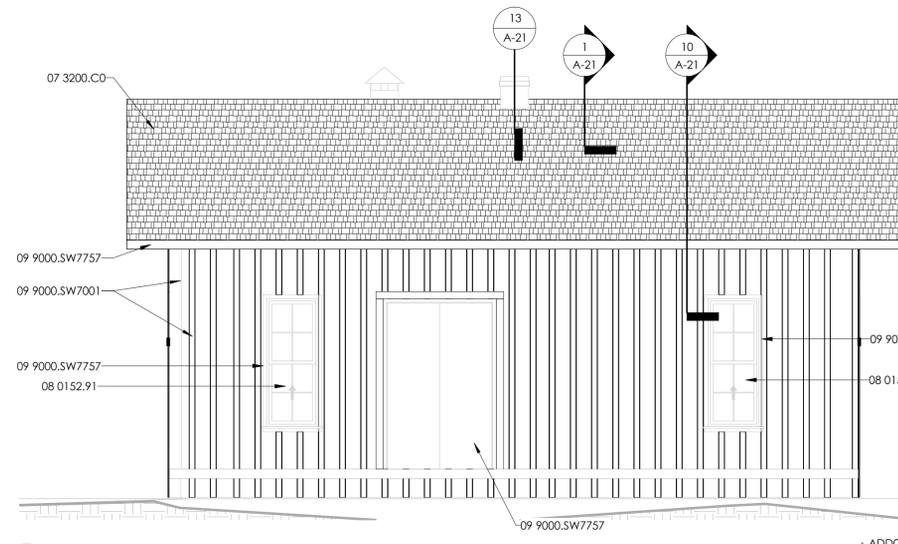
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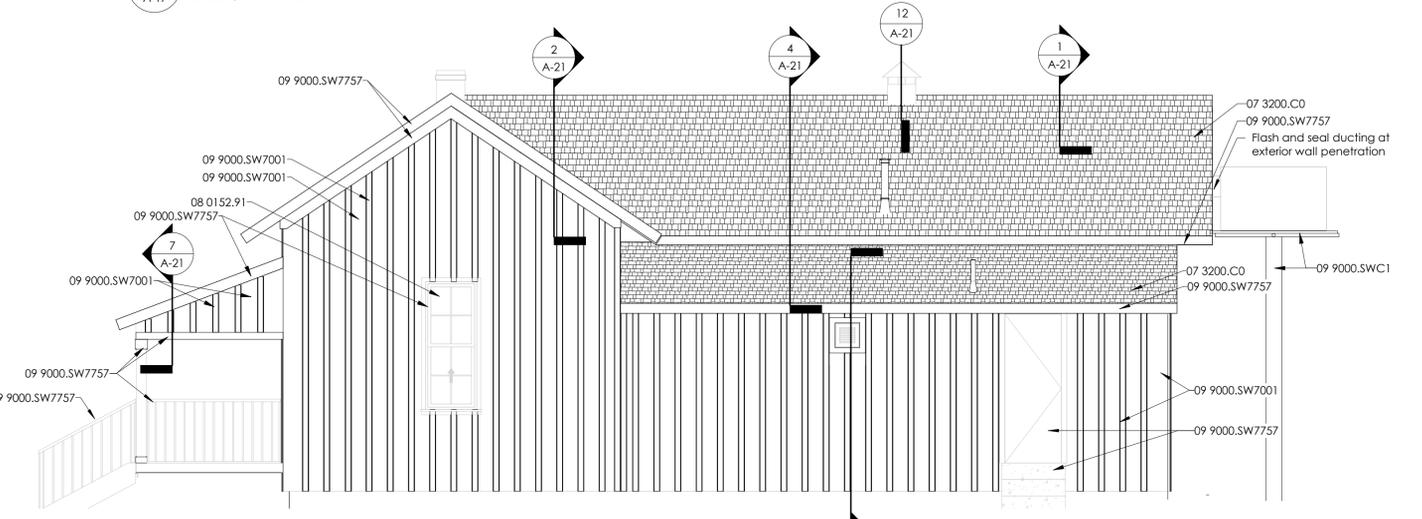
- 06 2000 Finish Carpentry
- 07 3200.C0 Synthetic Polyurethane Shake System
- 08 0152.91 Wood Window Restoration
- 09 9000 Painting and Coating
- 09 9000.SW7001 Painting/Marshmallow
- 09 9000.SW7757 Painting/High Reflective White
- 09 9000.SWC1 Custom Color to Match



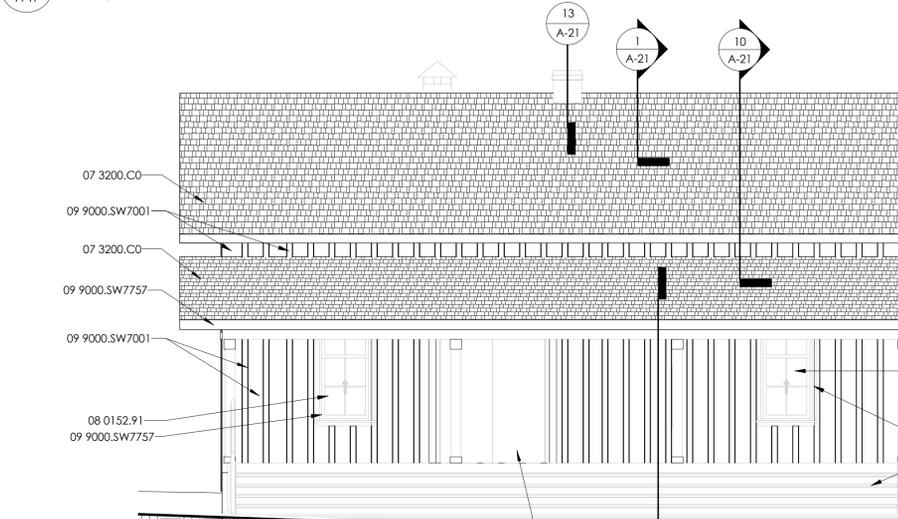
1 Section House South Exterior Elevation
SCALE: 1/4" = 1'-0" REF: A-13



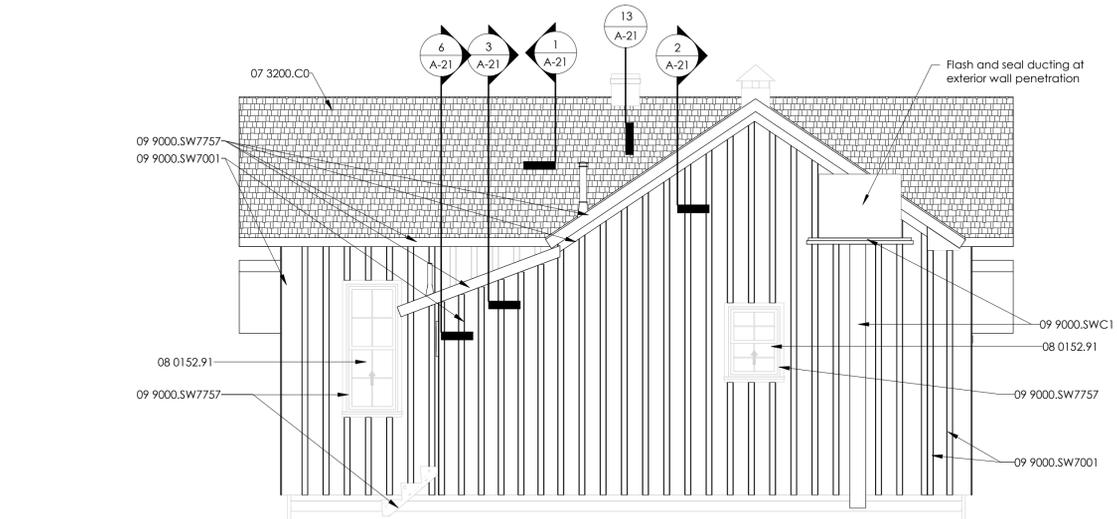
2 Section House East Exterior Elevation- Hidden Porch
SCALE: 1/4" = 1'-0" REF: A-13



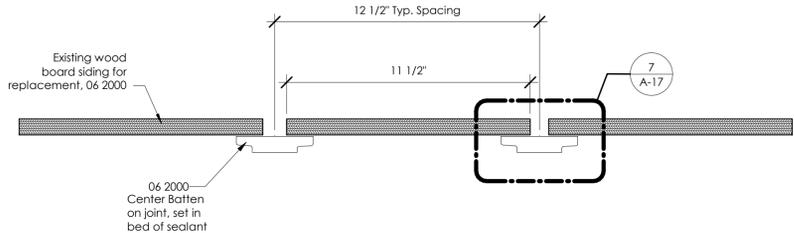
3 Section House North Exterior Elevation
SCALE: 1/4" = 1'-0" REF: A-13



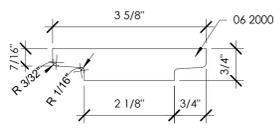
4 Section House East Exterior Elevation
SCALE: 1/4" = 1'-0" REF: A-13



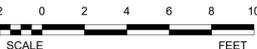
5 Section House West Exterior Elevation
SCALE: 1/4" = 1'-0" REF: A-13



6 Profile for Replacement Battens
SCALE: 3" = 1'-0" REF: A-13

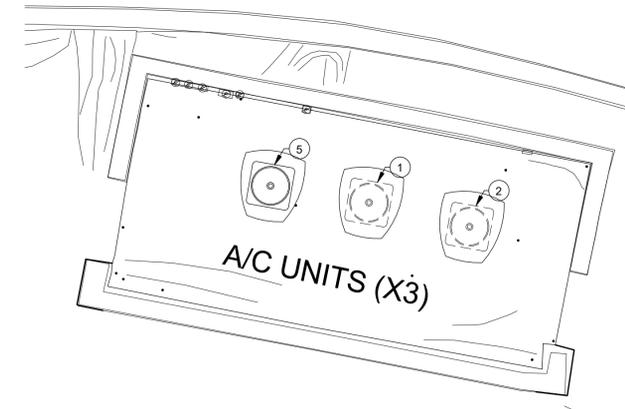


7 Enlarged Batten Profile
SCALE: 6" = 1'-0" REF: A-17

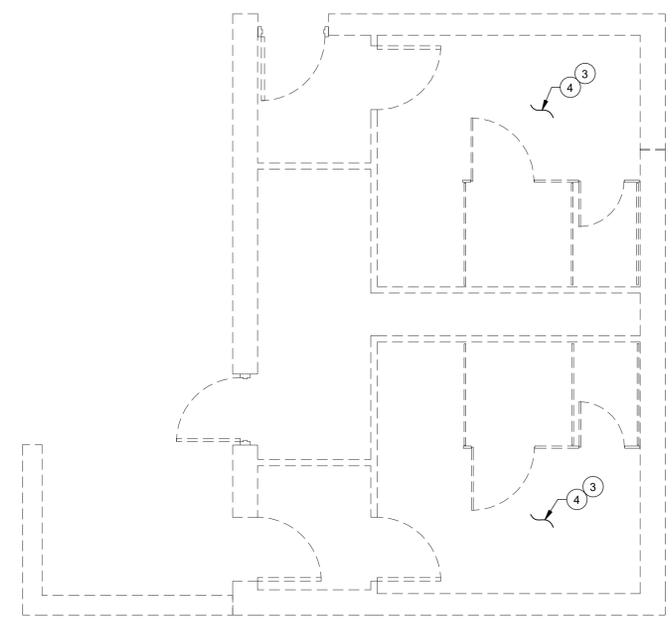


Visitors Center

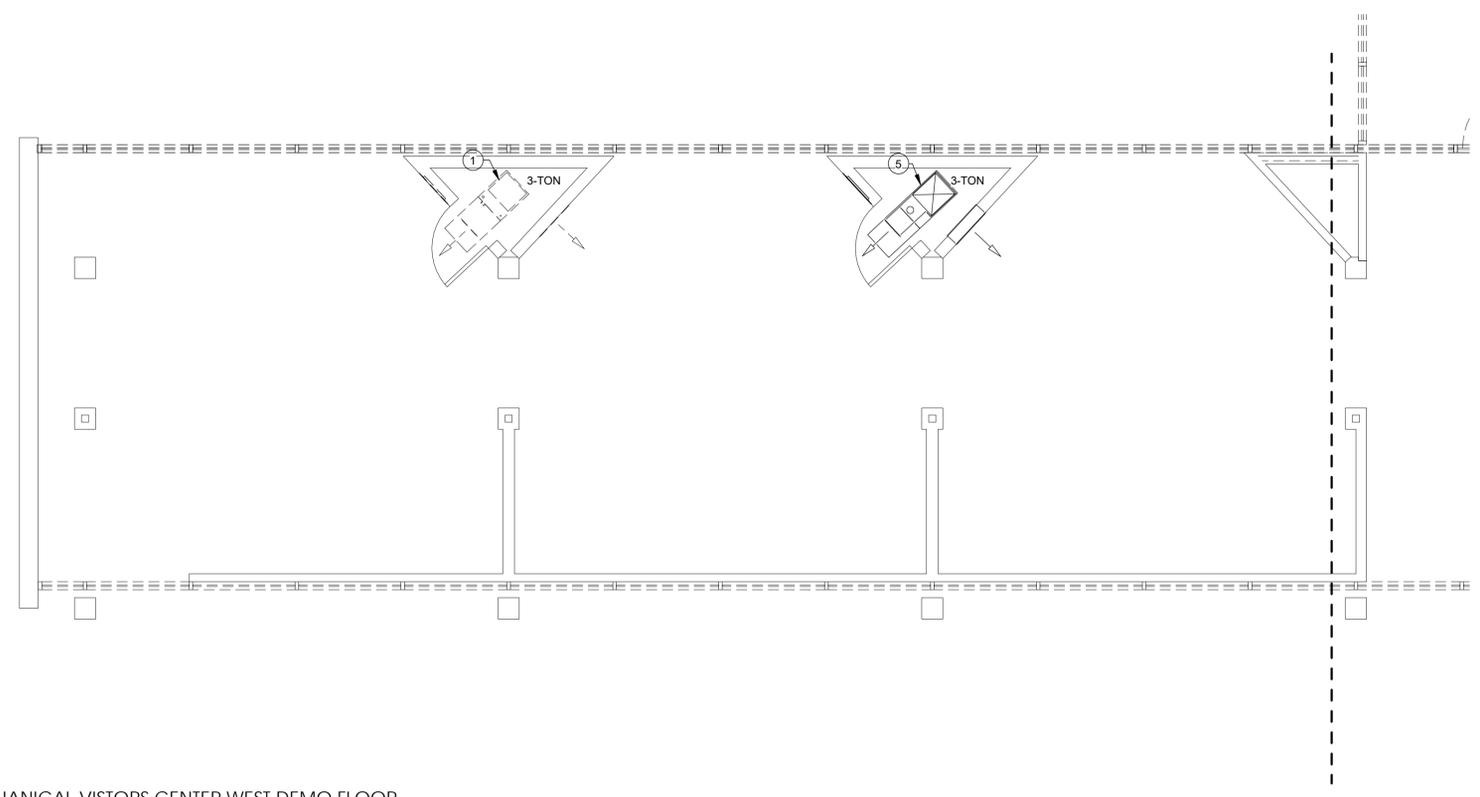
MECHANICAL KEYED NOTES	
1	EXISTING AHU/ CU TO BE RETURNED TO OWNER. CLEAN EXISTING REFRIGERANT LINES FOR RE-USE. REFER TO REMODEL. DIRECT CONTRACTOR TO STORE AND MAINTAIN IN SECURED AREA AS REQUIRED UNTIL REINSTALLED OR RETURNED TO OWNER.
2	EXISTING AHU/ CU TO BE RELOCATED FOR RE-USE IN EXHIBIT AREA. REFER TO REMODEL. DIRECT CONTRACTOR TO STORE AND MAINTAIN IN SECURED AREA AS REQUIRED UNTIL REINSTALLED OR RETURNED TO OWNER.
3	EXISTING EXHAUST FAN TO BE DEMOLISHED. EXISTING CURB/ HOOD TO REMAIN. REFER TO REMODEL.
4	DEMOLISH AND DISPOSE OF ALL EXISTING SUPPLY AIR/ RETURN AIR/ EXHAUST AIR DUCTWORK, GRILLES, ETC. REFER TO REMODEL.
5	EXISTING AHU/ CU TO REMAIN. CLEAN/ SERVICE. EXISTING DUCTS AND GRILLES TO REMAIN.
6	EXISTING REFRIGERANT LINE RACEWAYS. RELOCATE EXISTING REFRIGERANT LINES TO BE CONCEALED ABOVE NEW DUCTWORK. PROVIDE WITH ALUMINUM JACKETING ON ALL INTERIOR NEW AND EXISTING LINES. COORDINATE WITH ARCH FOR PAINT COLOR ON ALUMINUM JACKET.
7	FLUES AT OLD AHU-3 TO BE CAPPED AND BRACED SECURE BELOW THE ROOF TO AVOID FLEX AT THE ROOF.



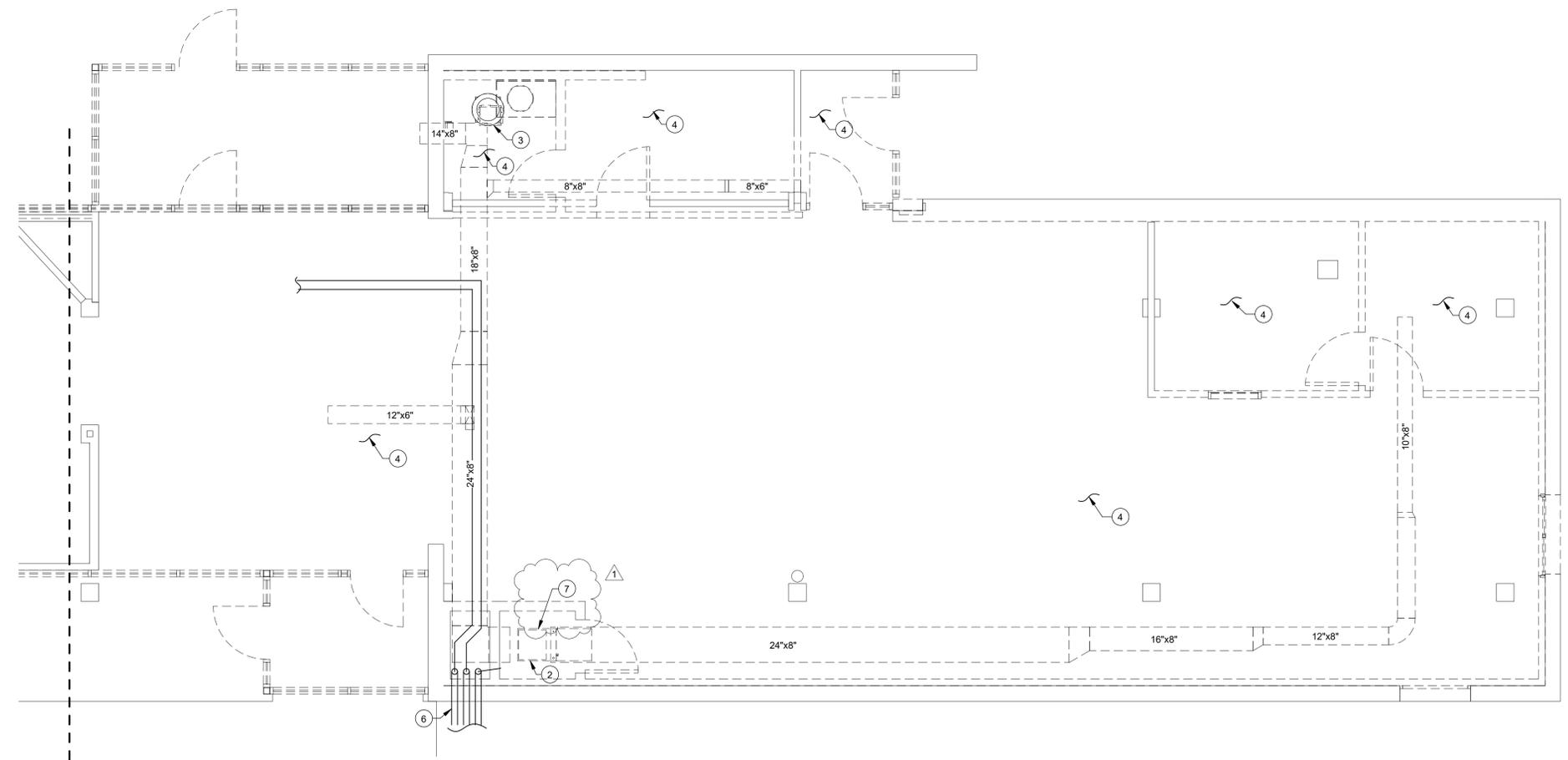
4 MECHANICAL FLOOR PLAN - DEMO CONDENSERS
M-03 SCALE: 1/4" = 1'-0" REF: M-02



3 MECHANICAL COMFORT STATION DEMO FLOOR PLAN
M-03 SCALE: 1/4" = 1'-0" REF: M-02



1 MECHANICAL VISTORS CENTER WEST DEMO FLOOR PLAN
M-03 SCALE: 1/4" = 1'-0" REF: M-06



2 MECHANICAL VISTORS CENTER EAST DEMO FLOOR PLAN
M-03 SCALE: 1/4" = 1'-0" REF: M-06

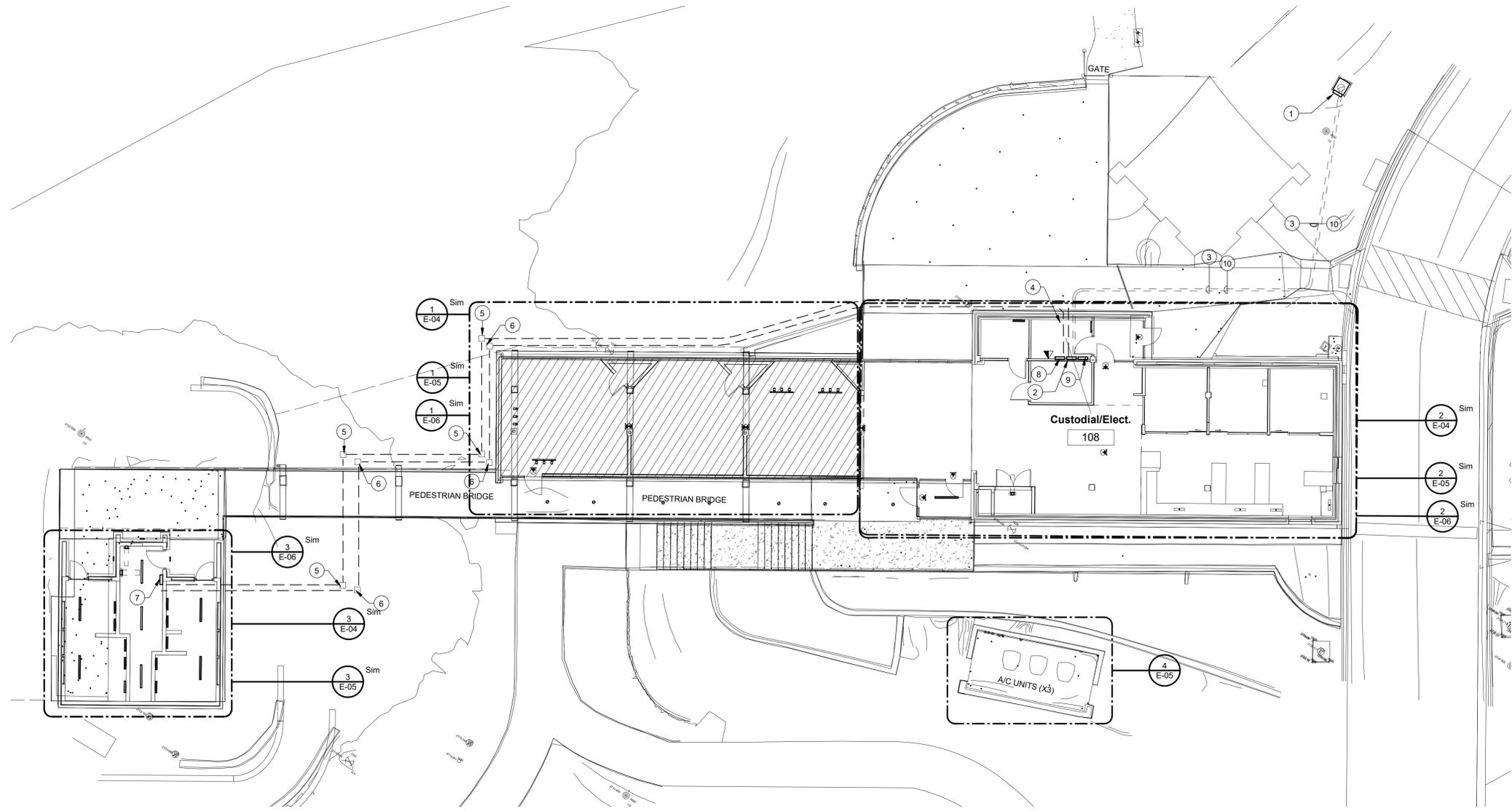


GENERAL NOTES - ELECTRICAL SITE

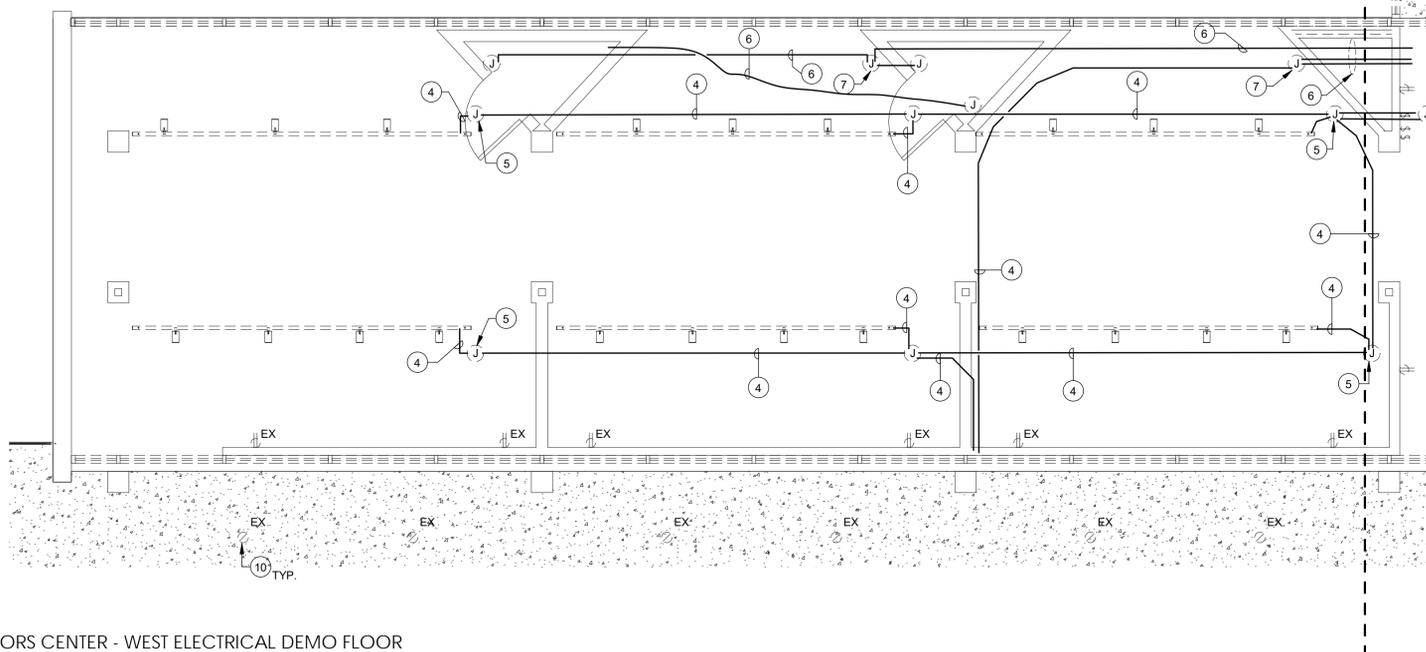
- A. CONTRACTOR TO VERIFY ALL EXISTING MAIN POWER SERVICES AND COORDINATE WITH POWER COMPANY FOR ALL NEW REQUIREMENTS AND ALL COST ASSOCIATED. CONTRACTOR SHALL INCLUDE ANY COST FOR THE NEW TRANSFORMER AND OTHER ASSOCIATED FEES IN BID. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FEES WITH POWER COMPANY AND TO INCLUDE IN BID. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER COMPANY AS SOON THE CONTRACT IS AWARDED TO ORDER TRANSFORMER AND THE RELATED ELECTRICAL SERVICE EQUIPMENT AS SOON AS POSSIBLE.
- B. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, TRENCHING AND BACKFILLING. COORDINATE WITH ALL UTILITIES PRIOR TO EXCAVATION.
- C. CONTRACTOR TO VERIFY ALL EXISTING MAIN TELEPHONE SERVICES AND COORDINATE WITH TELEPHONE COMPANY FOR ALL REQUIREMENTS AND ALL COST ASSOCIATED. INCLUDE ALL COST IN BID. CONDUIT FROM MAIN TELEPHONE RISER SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- D. ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE RATED TYPE NEMA 3R UNLESS OTHERWISE NOTED.
- E. CONTRACTOR SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES. ALL WORK SHALL CONFORM TO NATIONAL ELECTRICAL CODES AND ALL OTHER AUTHORITY HAVING JURISDICTION. OBTAIN PERMITS AND PAY ALL FEES. PERFORM MODIFICATIONS TO MEET CODE AND ORDINANCE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER. VERIFY PRIOR TO BID DATE.
- F. VERIFY AT JOB SITE THE EXACT LOCATIONS OF STRUCTURAL MEMBERS SUCH AS BEAMS, COLUMNS, ETC. TO LOCATE EQUIPMENT CONDUIT, PANELS AND DEVICES. IF DEVIATIONS FROM THE DRAWING ARE NECESSARY TO MEET STRUCTURAL CONDITIONS MAKE DEVIATIONS WITHOUT ADDITIONAL COST, TO OWNER, ARCHITECT, OR ENGINEER.
- G. IN COOPERATION WITH OTHER CONTRACTORS, DETERMINE THE EXACT LOCATION OF EQUIPMENT AND DEVICES AND CONNECTIONS THERETO BY REFERENCE TO THE SUBMITTALS AND ROUGH-IN DRAWINGS, AND BY MEASUREMENTS AT THE SITE. REFER TO ALL OTHER TRADES SUBMITTAL FOR ELECTRICAL INFORMATION.
- H. GROUND ENTIRE ELECTRICAL SYSTEM IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
- I. VERIFY AT JOB SITE GENERAL WORK TO BE DONE AS SPECIFIED, AS NOTED, OR AS REQUIRED FOR INSTALLATION ELECTRICAL SYSTEMS PRIOR TO SUBMISSION OF BIDS.
- J. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND EQUIPMENT TO BE REMOVED AND REPLACED BEFORE SUBMITTING HIS BID.
- K. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND SMALL SCALE ONLY. THEY CONVEY THE INTENT OF THE WORK BUT DO NOT SHOW DETAIL SUCH AS JUNCTION AND PULL BOXES REQUIRED BY THE SPECIFICATIONS AND THE NATIONAL ELECTRICAL CODE(NEC). PROVIDE ALL MATERIALS AND METHODS CALLED FOR IN THE SPECIFICATIONS AND AS REQUIRED IN THE NEC TO PROVIDE A COMPLETE INSTALLATION OF ALL WORK.
- L. ALL WIRING SHALL BE COPPER.
- M. ALL SLEEVES, PENETRATIONS, ETC. SHALL BE SEALED SOLID NON-SHRINKING MATERIAL IMMEDIATELY UPON FILLING OF THE OPENING WITH PIPE OR CONDUIT.
- N. ARRANGE FOR SOURCES OF TEMPORARY CONSTRUCTION SERVICES. SUCH SERVICES SHALL BE NOMINALLY 120/240V, 1-PHASE, 3-WIRE FROM WHICH A COMPLETE SYSTEM OF TEMPORARY POWER AND LIGHTING SHALL BE PROVIDED FOR ALL CONSTRUCTION NEEDS.

ELECTRICAL KEYNOTES

1	NEW PANEL 'DP' LOCATION.
2	EXISTING PANEL 'A' LOCATION.
3	PROVIDE NEW 1-RUN OF 3" FO FUTURE USE STUB UP IN ELECTRICAL ROOM# 108. FIELD VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY WORK.
4	STUB UP ELECTRICAL AND COMMUNICATION CONDUITS INSIDE ELECTRICAL ROOM. SHALL PENETRATE EXISTING GRADE BEAM 12" BELOW SLAB. COORDINATE WITH STRUCTURAL DOCUMENTS. COORDINATE EXACT STUB UP LOCATION PRIOR TO ANY WORK.
5	PROVIDE IN-GRADE WATER PROOF UL LISTED PULLBOX FOR NEW POWER FEED.
6	PROVIDE IN-GRADE WATER PROOF UL LISTED PULLBOX FOR COMMUNICATION CONDUITS.
7	NEW "PANEL-B" LOCATION.
8	NEW "PANEL-AC" LOCATION.
9	NEW "PANEL-R" LOCATION.
10	PROVIDE NEW 1-RUN OF 4#3/0, 1#6G, 2" C TO NEW PANEL AC IN ELECTRICAL ROOM. FIELD VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY WORK.

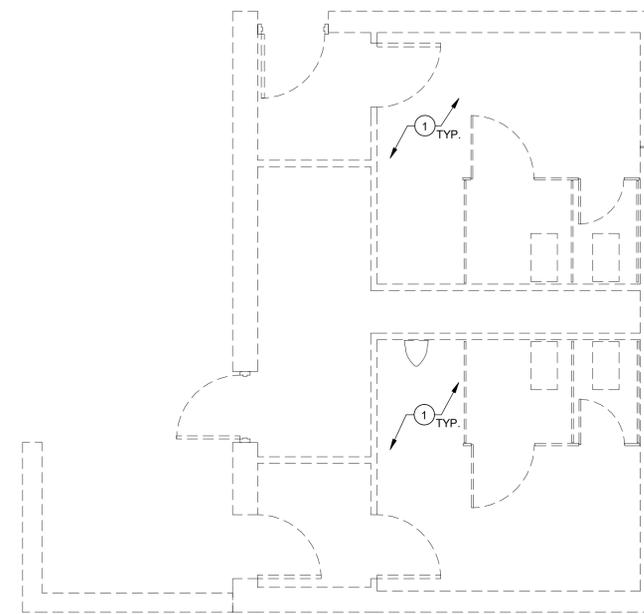


1 ELECTRICAL SITE PLAN
E-02 SCALE: 3/32" = 1'-0" REF: M-06



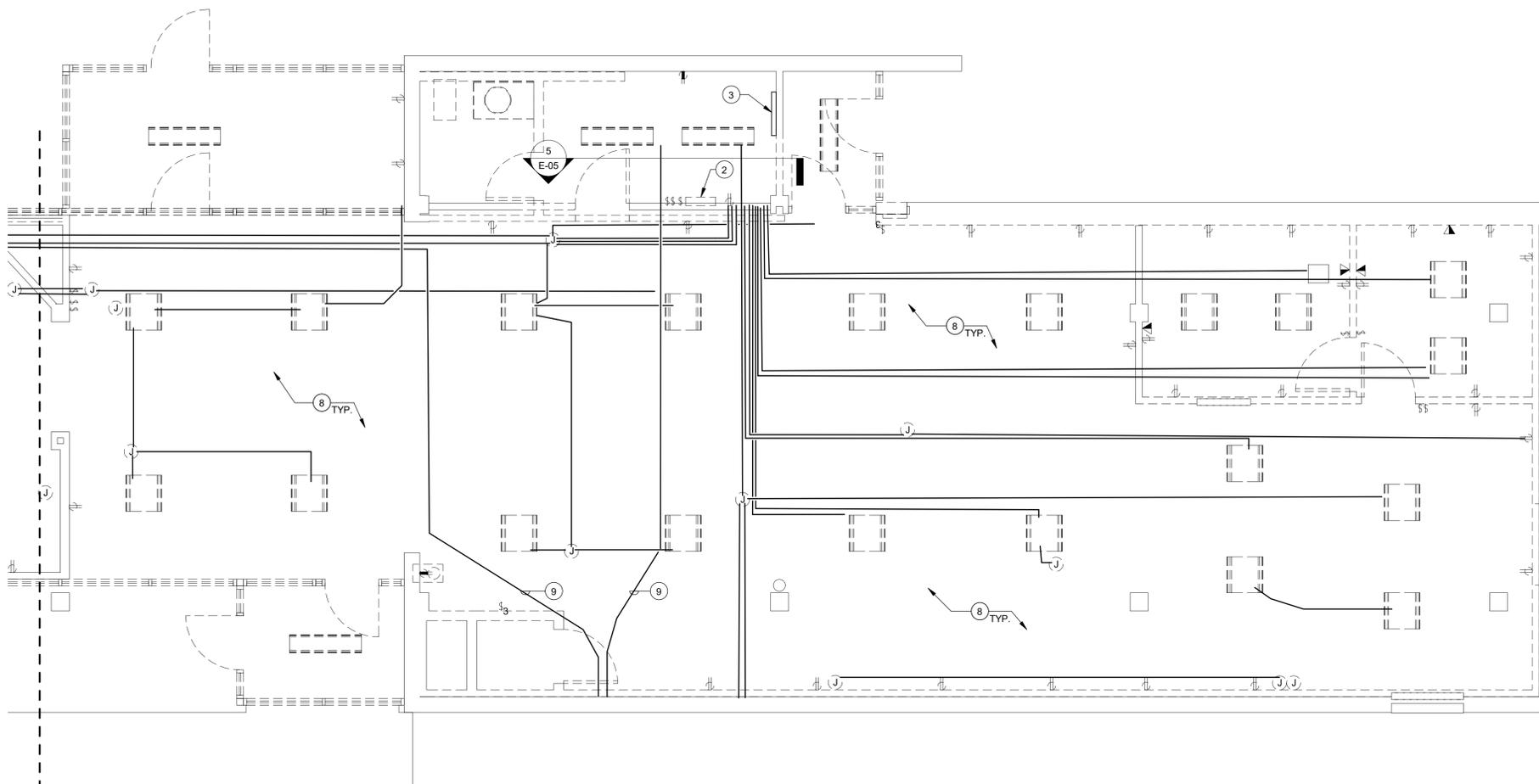
1 VISITORS CENTER - WEST ELECTRICAL DEMO FLOOR

PLAN
E-03 SCALE: 1/4" = 1'-0" REF: E-05



4 COMFORT STATION - ELECTRICAL DEMO FLOOR PLAN

E-03 SCALE: 1/4" = 1'-0" REF: E-05



2 VISITORS CENTER - EAST ELECTRICAL DEMO FLOOR

PLAN
E-03 SCALE: 1/4" = 1'-0" REF: E-05

GENERAL ELECTRICAL - DEMOLITION NOTES

- A. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.
- B. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUCTORS, CONDUIT, BOXES, ETC. TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.
- C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCHITECTURAL DOCUMENTS IN ADDITION TO THE OTHER DIVISIONS AND ELECTRICAL DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.
- D. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE.
- E. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO A CONCEALED JUNCTION BOX AND NEW PRODUCTS SHALL BE USED TO EXTEND THE SERVICE TO THE NEW LOCATION.
- F. WHERE CONDUITS RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE NOT PART OF DEMOLITION ARE TO REMAIN UNDISTURBED, CONDUCTORS SHALL BE REMOVED AND THE CONDUITS CAPPED AND ABANDONED.
- G. WHERE THE REMOVAL OF DEVICES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICE SHALL BE EXTENDED TO THE DOWNSTREAM DEVICE OR EQUIPMENT SO THAT THE DEVICE OR EQUIPMENT IS LEFT IN OPERATING CONDITION.
- H. COORDINATE DEMOLITION OF DIVISION 16 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.
- I. ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRING REMOVED DURING CONSTRUCTION NO LONGER REQUIRED AS PART OF AN ACTIVE SYSTEM AND NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.
- J. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.
- K. EXISTING DEVICES AND/OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.
- L. ALL DEVICES WITH AN "EX" SYMBOL ARE EXISTING TO REMAIN.
- M. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.

ELECTRICAL KEYNOTES

KEYNOTE	DESCRIPTION
1	EXISTING BUILDING SHALL BE DEMOLISHED IN ITS ENTIRETY. EXISTING LIGHTS, CONDUIT, WIRING, RECEPTACLES, ELECTRICAL PANELS, WALL PLATES, DATA OUTLETS, FIRE ALARM, SWITCHES SHALL BE REMOVED.
2	EXISTING 120/240V, 1-PHASE, 200A PANEL "A" TO REMAIN. FIELD VERIFY EXISTING CONDITIONS.
3	EXISTING TELEPHONE DEMARC TO RELOCATED REFER TO REMODEL PLAN. EXISTING COMMUNICATION CONDUIT STUB-UP TO REMAIN.
4	EXISTING CONDUITS SHALL BE REMOVED.
5	EXISTING J-BOX SHALL BE REMOVED.
6	EXISTING CONDUITS SHALL BE RAISED AND MOUNTED TO UNDERSIDE OF STRUCTURE.
7	EXISTING J-BOX SHALL REMAIN.
8	EXISTING CONDUITS SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
9	EXISTING CONDUITS SHALL BE REROUTED TO ELECTRICAL ROOM.
10	EXISTING EXTERIOR LIGHT FIXTURES TO REMAIN.

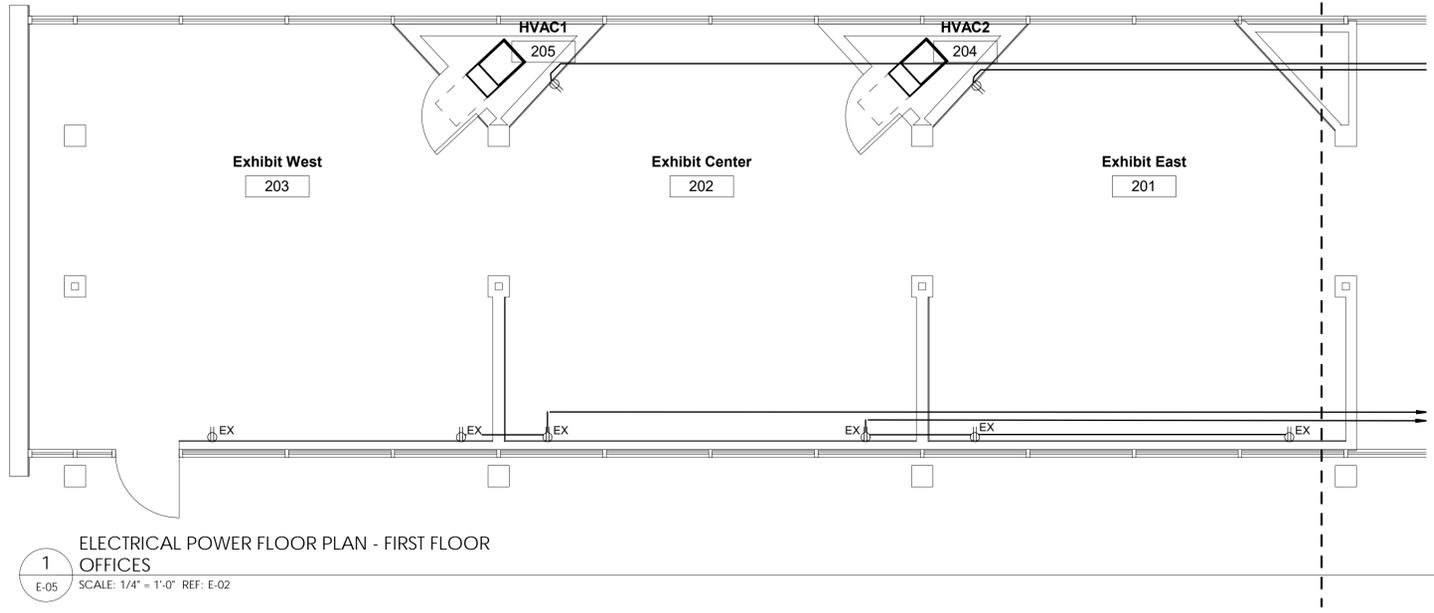
LEGEND : DEMOLITION

SYMBOL	NOTE
	LIGHT FIXTURES, LIGHTING DEVICES AND CONDUITS SHALL BE REMOVED.
	EXISTING WIRING DEVICES TO BE REMOVED.
	EXISTING DATA OUTLET TO BE REMOVED.
	EXISTING WIRING DEVICES TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND REFER TO ARCHITECTURAL DOCUMENTS.

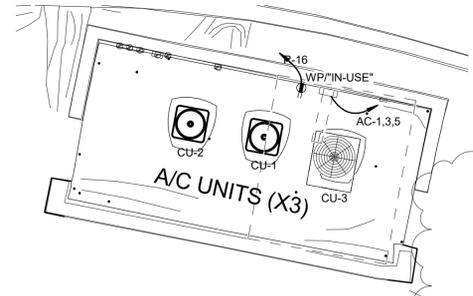
GENERAL NOTES- ELECTRICAL

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
- B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
- D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
- E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
- F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.
- H. PROVIDE CLEAR VANDAL COVER WITH STOPPER II OPTION FOR ALL FIRE ALARM PULL STATIONS.
- I. ALL DEVICES SHOWN ON DRAWINGS ARE SYMBOLIC ONLY. THE ENTIRE FIRE ALARM SYSTEM, SHALL BE IN FULL COMPLIANCE AND MEET ALL CODES AND REQUIREMENTS OF THE LOCAL ADMINISTRATIVE AUTHORITY. ANY MODIFICATIONS REQUIRED TO PROVIDE COMPLIANCE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER.
- J. ALL CONDUITS SHALL BE ROUTED UP TO CEILING LEVEL AND RUN WITHIN CEILING STRUCTURE CHANNELS AND SHALL NOT CROSS INTO OTHER AREAS.

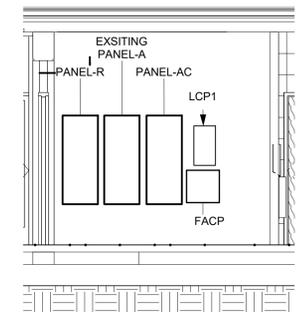
ELECTRICAL KEYNOTES	
1	EXISTING PANEL "A"
2	PROVIDE 1-2" WITH PULLSTRING FOR NEW FIRE ALARM CABLING AND ROUTE TO CUSTODIALELECT-108. FIELD VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY WORK.
3	COORDINATE EXACT LOCATION WITH PLUMBER TO CONCEAL CORD BEHIND ELECTRIC DRINKING FOUNTAIN PRIOR TO ANY ROUGH-IN.
4	TIE INTO ROOMS LIGHTING CIRCUIT AND INTERLOCK FAN WITH ROOMS LIGHTS. WIRING SHALL BE 2#12, 1#12G, 1/2"C.
5	PROVIDE 1-RUN OF 3#3, 1#8G, 1.5"C AND ROUTE TO CUSTODIALELECT-108. FIELD VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY WORK.
6	J-BOX FOR FIRE ALARM CIRCUIT TO FACP.
7	ROUTE TO EXISTING PANEL "A". PROVIDE 1-20 AMP, 120V, 1-POLE BREAKER. WIRE SHALL BE 2#10, #10G, 3/4"C. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.
8	CONDUITS SHALL BE RUN WITHIN CHANNELS AS SHOWN, AND SHALL NOT CROSS INTO OTHER AREAS.
9	CONDUITS SHALL BE ROUTED ABOVE HVAC DUCT INTO ELECTRICAL ROOM. SWITCHLEGS AND ALL POWER SUPPLY CONDUITS MUST BE ROUTED IN WALLS OR ALONG CHANNELS EXCEPT WHERE CROSSING AT THIS LOCATION.
10	REFER TO TYPICAL SECTION ON SHEET E-06 DETAIL #4 FOR TYPICAL CONDUIT ROUTING FOR DESK.
11	CORE DRILL FOR COMMUNICATION AND POWER CONDUITS (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.
12	ALL CONDUIT NOT IN WALL SHALL BE RAN ABOVE CONCRETE ROOF/CEILING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK.
13	SAW-CUT THRU CONCRETE TO TRENCH FOR NEW UNDERGROUND PLUMBING. PATCH CONCRETE FLOOR TO MATCH EXISTING, REPAIR REBAR AND PROVIDE NEW MOISTURE BARRIER. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW. HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS. PATCH AND SEAL OPENINGS AS REQUIRED BY STRUCTURAL ENGINEER. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.



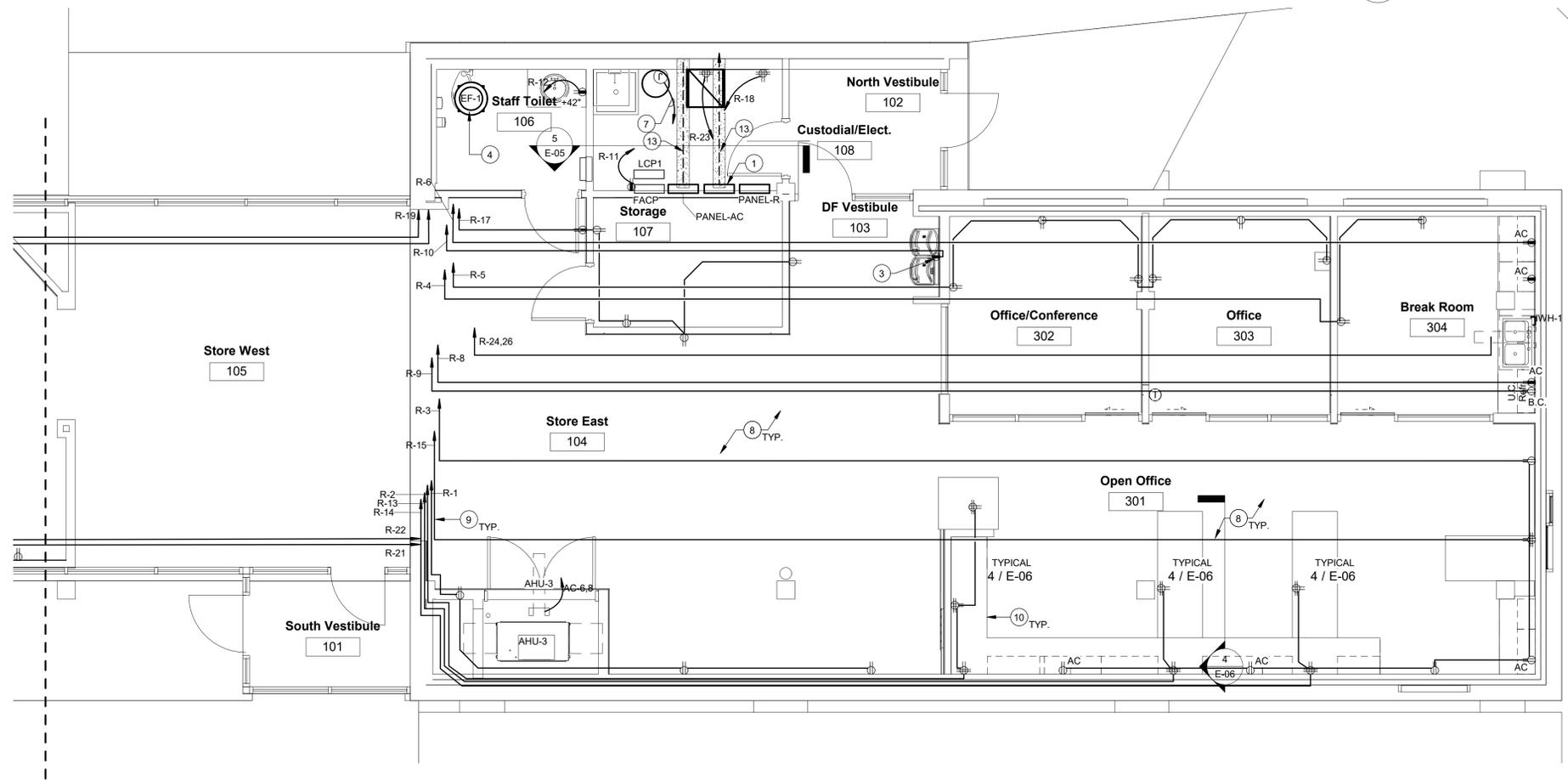
1
ELECTRICAL POWER FLOOR PLAN - FIRST FLOOR
OFFICES
SCALE: 1/4" = 1'-0" REF: E-02



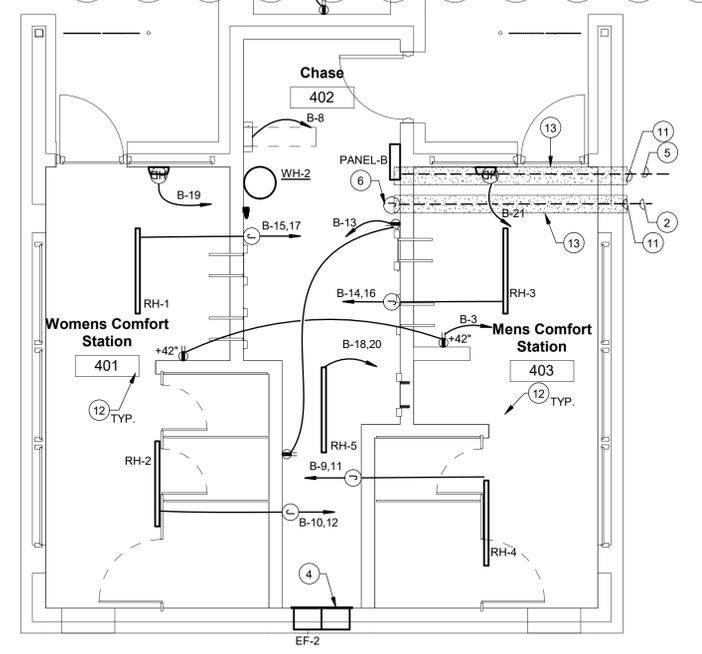
4
ELECTRICAL SITE PLAN - CONDENSERS
SCALE: 3/16" = 1'-0" REF: E-02



5
ELECTRICAL WALL
SCALE: 1/4" = 1'-0" REF: E-03

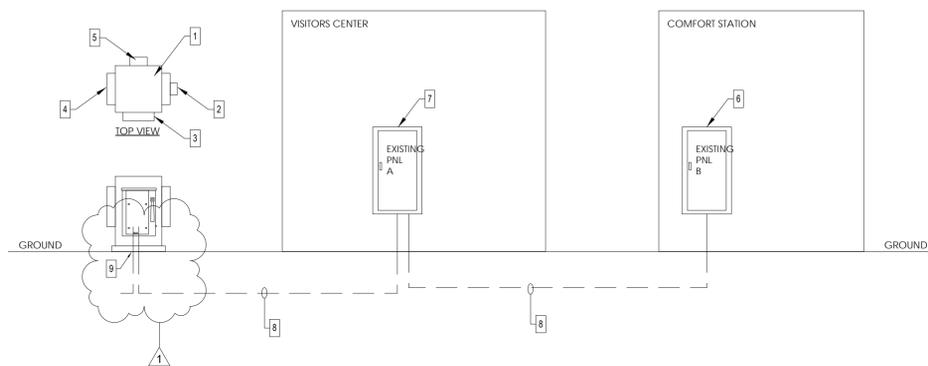


2
ELECTRICAL POWER FLOOR PLAN - FIRST FLOOR
VISITORS
SCALE: 1/4" = 1'-0" REF: E-02



3
ELECTRICAL POWER FLOOR PLAN - FIRST FLOOR -
COMFORT STATION
SCALE: 1/4" = 1'-0" REF: E-02

240/120V, 3-PHASE, 3W ELECTRICAL LOAD ANALYSIS-NEW PANEL "DP"	
DESCRIPTION	TOTAL KVA
LIGHTING	4
GENERAL POWER	14
A/C	31.86
WATER HEATER	5.2
EXISTING	18
WELL PUMP	10.7
TOTAL WATS: 81.16 KVA	
TOTAL AMPS: 190 AMPS	
WIRE SIZE AMPS: 196 AMPS	



1 EXISTING ELECTRICAL SCHEMATIC DIAGRAM
SCALE: NTS

ELECTRICAL RISER
DIAGRAM KEYED NOTES:

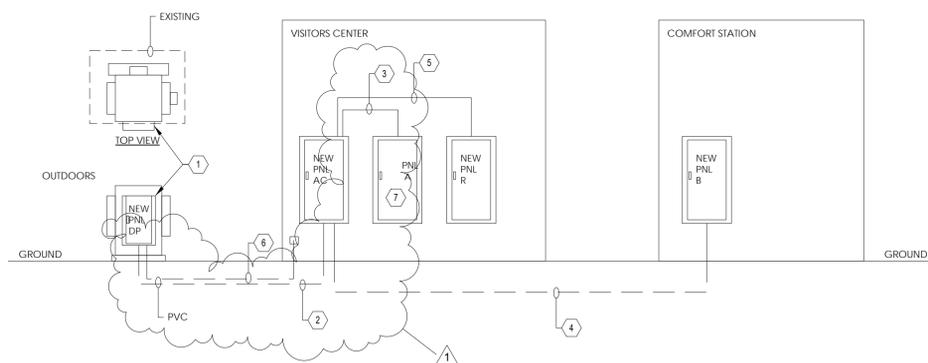
- EXISTING ELECTRICAL UTILITY SERVICE PEDIESTAL SHALL REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- EXISTING 120/240V, 3-PHASE ELECTRICAL SERVICE METER SHALL REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- EXISTING 120/240V, 3-PHASE, 200A ELECTRICAL SERVICE DISCONNECT "MS" SHALL BE REPLACED WITH NEW PANEL "DP". REFER TO REMODEL RISER SCHEMATIC.
- EXISTING 120/240V, 1-PHASE, 200A DISCONNECT FOR PANEL-A SHALL REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- EXISTING 120/240V, 3-PHASE, 40A DISCONNECT FOR WATER WELL SHALL REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
- EXISTING 120/240V, 1-PHASE PANEL "B" SHALL BE REMOVED. ALL EXISTING CONDUIT AND CONDUCTORS TO BE REMOVED.
- EXISTING 120/240V, 200A, 1-PHASE PANEL "A" SHALL REMAIN.
- EXISTING CONDUIT SHALL BE REMOVED/ABANDONED. REMOVE AND DISCONNECT EXISTING WIRING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK-REFER TO REMODEL RISER DIAGRAM FOR SCOPE OF WORK.
- EXISTING WATER WELL CIRCUIT TO BE TEMPORARILY DISCONNECT AND RE-CONNECTED TO NEW PANEL "DP". EXISTING CONDUIT AND WIRING TO REMAIN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING ANY WORK-REFER TO REMODEL RISER DIAGRAM FOR SCOPE OF WORK.

GENERAL NOTES:

- PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.
- NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL SWITCH GEAR, PANEL BOARDS, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC. BY ELECTRICAL CONTRACTOR.
- COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.
- PANELBOARDS WITH MORE THAN 42 CIRCUITS SHALL BE IN ONE CABINET ENCLOSURE, UNLESS OTHERWISE NOTED.
- ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS, INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.
- THE CONTRACTOR SHALL FURNISH SHORT-CIRCUIT AND PROTECTION DEVICE COORDINATE STUDIES WHICH SHALL BE PREPARED BY THE EQUIPMENT GEAR MANUFACTURER AND SUBMITTED AS PART OF THE ELECTRICAL GEAR SUBMITTALS.
- THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER NFPA 70E- STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REFERENCE ARTICLE 130.3 AND ANEX D.

ELECTRICAL RISER
DIAGRAM KEYED NOTES:

- PROVIDE NEW PANEL-DP WITH SERVICE RATED MAIN BREAKER.
- PROVIDE NEW 1-RUN OF #3/0, 1#GG, 2'C.
- PROVIDE NEW 1-RUN OF 3#2, 1#GG, 2'C.
- PROVIDE NEW 1-RUN OF 3#1, 1#GG, 2'C.
- PROVIDE NEW 1-RUN OF 3#2, 1#GG, 2'C.
- PROVIDE NEW 2'C WITH PULL STRING FOR FUTURE USE. COORDINATE STUB UP LOCATION IN CUSTODIAL/ELEC. ROOM 108.
- EXISTING PANEL A TO BE REPLACE WITH SAME CIRCUITS AND BREAKERS AS SHOWN. PANEL A SHALL BE 120/240V, 1P MLO 100AMPS



2 REMODEL ELECTRICAL SCHEMATIC DIAGRAM
SCALE: NTS



Light Fixture Schedule

Tag	La mp	Voltage	Mounting	Description	Manufacturer	Model
A	LED	120V	SUSPENDED	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	MARK LIGHTING	S4LD 4FT 80CRI 40K 1000LMF ZT APD
A2	LED	120V	SUSPENDED	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	MARK LIGHTING	S4LD 4FT 80CRI 40K 1000LMF ZT APD
A2E	LED	120V	SUSPENDED	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, AND EMERGENCY BATTERY BACKUP. PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	MARK LIGHTING	S4LD 4FT 80CRI 40K 1000LMF ZT APD E10WLCP
A3E	LED	120V	SUSPENDED	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, AND EMERGENCY BATTERY BACKUP. PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	MARK LIGHTING	S4LD 4FT 80CRI 40K 600LMF ZT APD E10WLCP
A4	LED	120V	SUSPENDED	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	AXIS LIGHTING	TB4DLED 1000 80 40 B40 1.5M 4 120V CTS DP DS
A4E	LED	120V	SUSPENDED	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, AND EMERGENCY BATTERY BACKUP. PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	AXIS LIGHTING	TB4DLED 1000 80 40 B40 1.5M 4 120V CTS B DP DS
C	LED	120V	SURFACE	4' LED STRIP LIGHT, UL LISTED	LITHONIA LIGHTING	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH E10WLCP
CE	LED	120V	SURFACE	4' LED STRIP LIGHT, UL LISTED WITH EMERGENCY BATTERY BACKUP	LITHONIA LIGHTING	CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH E10WLCP
D	LED	120V	SUSPENDED	4' TRACK LIGHT WITH 3 HEADS. PROVIDE WITH ALL NECESSARY ACCESSORIES FOR A PROPER INSTALLATION.	JUNO	JUNO HEAD: R620L 40K 80CRI VBS FL TRACK: T-4FT-WH
F	LED	120V	SURFACE	2' WALL MOUNT LINEAR FIXTURE	MARK LIGHTING	S4LWD 2FT 80CRI 40K 400LMF
GE	LED	120V	SURFACE	4' SUSPENDED LINEAR FIXTURE, WITH DIRECT LIGHT DISTRIBUTION, INTEGRATED OCCUPANCY AND DAYLIGHTING CONTROLS, AND EMERGENCY BATTERY BACKUP. PROVIDE ALL MATERIALS NECESSARY FOR A PROPER INSTALLATION	MARK LIGHTING	S4LS 4FT 80CRI 40K 1000LMF ZT APD E10WLCP
H	LED	120V	SURFACE	UNDERCABINET LIGHTING PRO-SERIES LED	JUNO	UPLD22-WH
X1	LED	120V	SURFACE	LED THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	LITHONIA LIGHTING	LHOM LED_R SD
X2	LED	120V	SURFACE	THERMOPLASTIC EXIT UNIT WITH SELF-DIAGNOSTICS	LITHONIA LIGHTING	LQM S W 1 R 120/277 EL N SD
AA	LED	120V	SURFACE	WALL MOUNTED FIXTURE RATED FOR WET LOCATION. FINISH SHALL BE SELECTED BY ARCHITECT.	MODERN FORMS LIGHTING	WS-W38610

- GENERAL NOTES:
- EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER.
 - SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.
 - SUBMIT LIGHT FIXTURES CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.
 - CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.
 - ANCHOR BOLTS SHALL BE OF NON-CORROSIVE MATERIAL (STAINLESS STEEL).
 - ACCEPTABLE MANUFACTURERS: LITHONIA, GOTHAM.

Branch Panel: PANEL-R
Location: Custodial/Elect. 108
Supply From: PANEL-AC
Mounting: Surface
Enclosure: Type 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22
Main Type: MLO
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Wire Size	A	B	Wire Size	Circuit Description	CKT
R-1	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	540 VA	1200 VA	2#12, 1#12G, 1/2"C	Receptacle	R-2
R-3	Receptacle	20 A	1	2#10, 1#10G, 3/4"C	960 VA	360 VA	2#12, 1#12G, 1/2"C	Receptacle	R-4
R-5	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	1080 VA	180 VA	2#12, 1#12G, 1/2"C	Receptacle	R-6
R-7	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	1200 VA	600 VA	2#12, 1#12G, 1/2"C	Receptacle	R-8
R-9	Equipment	20 A	1	2#10, 1#10G, 3/4"C	1200 VA	600 VA	2#12, 1#12G, 1/2"C	Receptacle	R-10
R-11	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	180 VA	180 VA	2#12, 1#12G, 1/2"C	Receptacle	R-12
R-13	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	800 VA	800 VA	2#12, 1#12G, 1/2"C	Receptacle	R-14
R-15	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	400 VA	1200 VA	2#10, 1#10G, 3/4"C	Receptacle	R-16
R-17	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	900 VA	500 VA	2#12, 1#12G, 1/2"C	Receptacle	R-18
R-19	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	180 VA	180 VA	2#12, 1#12G, 1/2"C	Receptacle	R-20
R-21	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	600 VA	400 VA	2#12, 1#12G, 1/2"C	Receptacle	R-22
R-23	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	500 VA	2050 VA	3#10, 1#10G, 3/4"C	Receptacle	R-24
R-25	Space	--	--	--	0 VA	2050 VA	--	Space	R-26
R-27	Space	--	--	--	0 VA	0 VA	--	Space	R-28
R-29	Space	--	--	--	0 VA	0 VA	--	Space	R-30
R-31	Space	--	--	--	0 VA	0 VA	--	Space	R-32
R-33	Space	--	--	--	0 VA	0 VA	--	Space	R-34
R-35	Space	--	--	--	0 VA	0 VA	--	Space	R-36
R-37	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	--	Space	R-38
R-39	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	1 20 A	Space	R-40
R-41	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	1 20 A	Space	R-42

Total Load: 10850 VA
Total Amps: 90 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	5300 VA	100.00%	5300 VA	Total Conn. Load: 17400 VA
Receptacle	12100 VA	100.00%	12100 VA	Total Est. Demand: 17400 VA
				Total Conn.: 73 A
				Total Est. Demand: 73 A

Branch Panel: PANEL-B
Location: Chase 402
Supply From: PANEL-AC
Mounting: Surface
Enclosure: Type 3R

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 22
Main Type: MLO
Mains Rating: 100 A
MCB Rating: 100 A

CKT	Circuit Description	Trip	Poles	Wire Size	A	B	Wire Size	Circuit Description	CKT
B-1	Lighting	20 A	1	2#12, 1#12G, 1/2"C	410 VA	45 VA	2#12, 1#12G, 1/2"C	Lighting	B-2
B-3	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	0 VA	1200 VA	2#12, 1#12G, 1/2"C	Emergency/Exit	B-4
B-5	Space	--	--	--	0 VA	1200 VA	2#12, 1#12G, 1/2"C	Space	B-6
B-7	Lighting	20 A	1	2#12, 1#12G, 1/2"C	70 VA	1500 VA	2#12, 1#12G, 1/2"C	Power	B-8
B-9	Heater	20 A	2	3#12, 1#12G, 1/2"C	1500 VA	1500 VA	3#12, 1#12G, 1/2"C	Heater	B-10
B-11	Space	--	--	--	1500 VA	1500 VA	--	Space	B-12
B-13	Receptacle	20 A	1	2#12, 1#12G, 1/2"C	360 VA	1500 VA	3#12, 1#12G, 1/2"C	Heater	B-14
B-15	Heater	20 A	2	3#12, 1#12G, 1/2"C	1500 VA	1500 VA	3#12, 1#12G, 1/2"C	Heater	B-16
B-17	Space	--	--	--	1500 VA	1500 VA	3#12, 1#12G, 1/2"C	Heater	B-18
B-19	Hand Dryer	20 A	1	2#12, 1#12G, 1/2"C	800 VA	1500 VA	--	Space	B-20
B-21	Hand Dryer	20 A	1	2#12, 1#12G, 1/2"C	800 VA	0 VA	--	Space	B-22
B-23	Space	--	--	--	0 VA	0 VA	--	Space	B-24
B-25	Space	--	--	--	0 VA	0 VA	--	Space	B-26
B-27	Space	--	--	--	0 VA	0 VA	--	Space	B-28
B-29	Space	--	--	--	0 VA	0 VA	--	Space	B-30
B-31	Space	--	--	--	0 VA	0 VA	--	Space	B-32
B-33	Space	--	--	--	0 VA	0 VA	--	Space	B-34
B-35	Space	--	--	--	0 VA	0 VA	--	Space	B-36
B-37	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	1 20 A	Space	B-38
B-39	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	1 20 A	Space	B-40
B-41	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	1 20 A	Space	B-42

Total Load: 10315 VA
Total Amps: 86 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	15000 VA	100.00%	15000 VA	Total Conn. Load: 20545 VA
Other	410 VA	100.00%	410 VA	Total Est. Demand: 20545 VA
Receptacle	1920 VA	100.00%	1920 VA	Total Conn.: 86 A
Power	1500 VA	100.00%	1500 VA	Total Est. Demand: 86 A
Lighting	115 VA	125.00%	144 VA	
Hand Dryer	1600 VA	100.00%	1600 VA	

Branch Panel: PANEL-DP
Location: Outdoor
Supply From: PANEL-AC
Mounting: Surface
Enclosure: Type 3R

Volts: 120/240 Delta
Phases: 3
Wires: 4

A.I.C. Rating: 30
Main Type: MLO
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Wire Size	A	B	C	Wire Size	Poles	Trips	Circuit Description	CKT
1	PANEL-AC	20 A	3	4#8, 1#10G, 1"C	3180 VA	2747 VA	24210 VA	2747 VA	3	40 A	EXISTING WELL	2
5	Space	--	--	--	0 VA	0 VA	16790 VA	2747 VA	--	--	Space	6
7	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	8
9	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	10
11	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	12
13	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	14
15	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	16
17	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	18
19	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	20
21	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	22
23	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	24
25	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	26
27	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	28
29	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	30
31	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	32
33	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	34
35	Space	20 A	1	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	36
37	1.3 SPD	30 A	3	2#12, 1#12G, 1/2"C	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	38
39	Space	--	--	--	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	40
41	Space	--	--	--	0 VA	0 VA	0 VA	0 VA	1	20 A	Space	42

Total Load: 34552 VA
Total Amps: 288 A

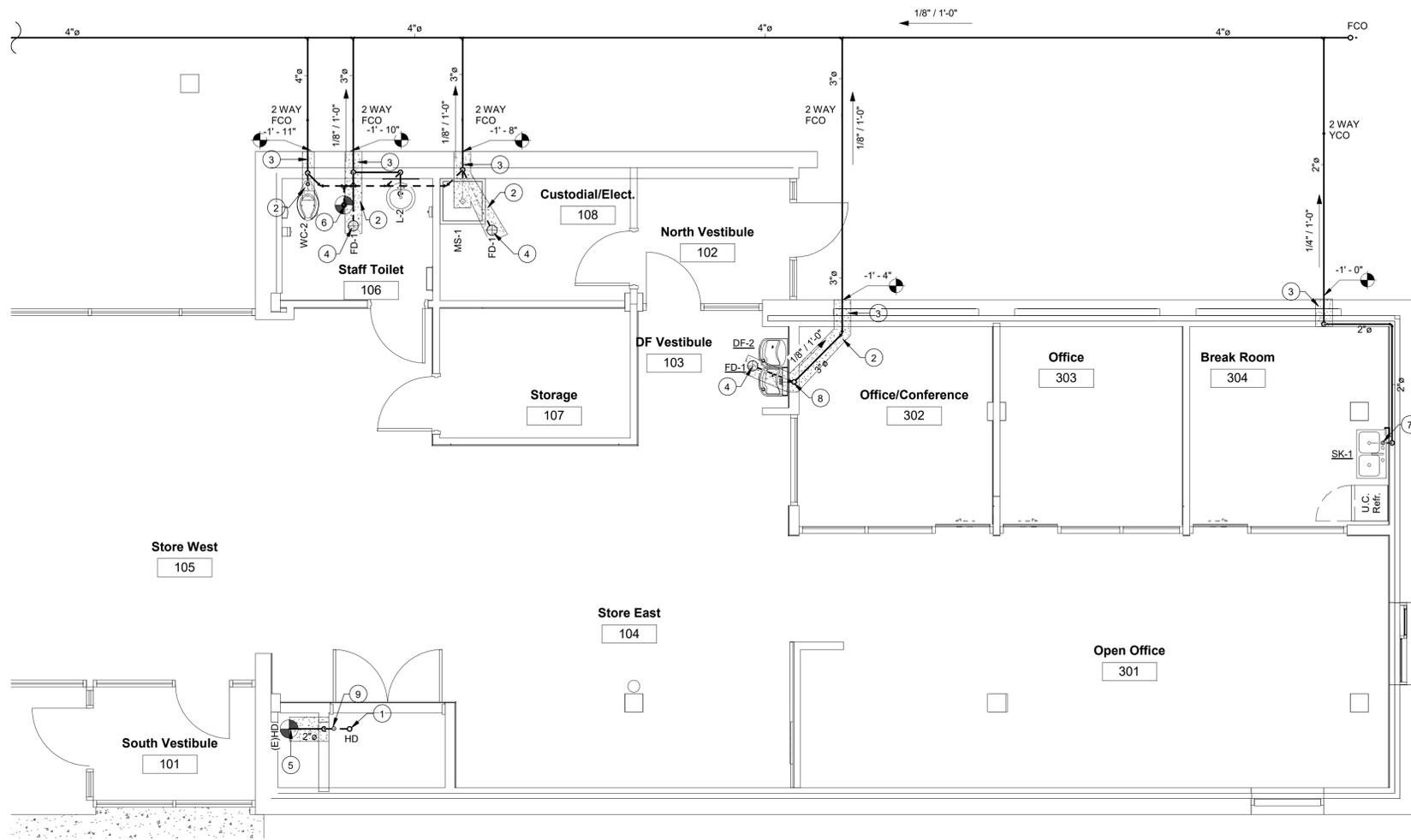
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	13540 VA	100.00%	13540 VA	Total Conn. Load: 81045 VA
HVAC	31860 VA	100.00%	31860 VA	Total Est. Demand: 81045 VA
Other	410 VA	100.00%	410 VA	Total Conn.: 195 A
Receptacle	14020 VA	100.00%	14020 VA	Total Est. Demand: 195 A
Power	19500 VA	100.00%	19500 VA	
Lighting	115 VA	125.00%	144 VA	
Hand Dryer	1600 VA	100.00%	1600 VA	

Branch Panel: PANEL-AC
Location: Custodial/Elect. 108
Supply From: PANEL-DP
Mounting: Surface
Enclosure: Type 1

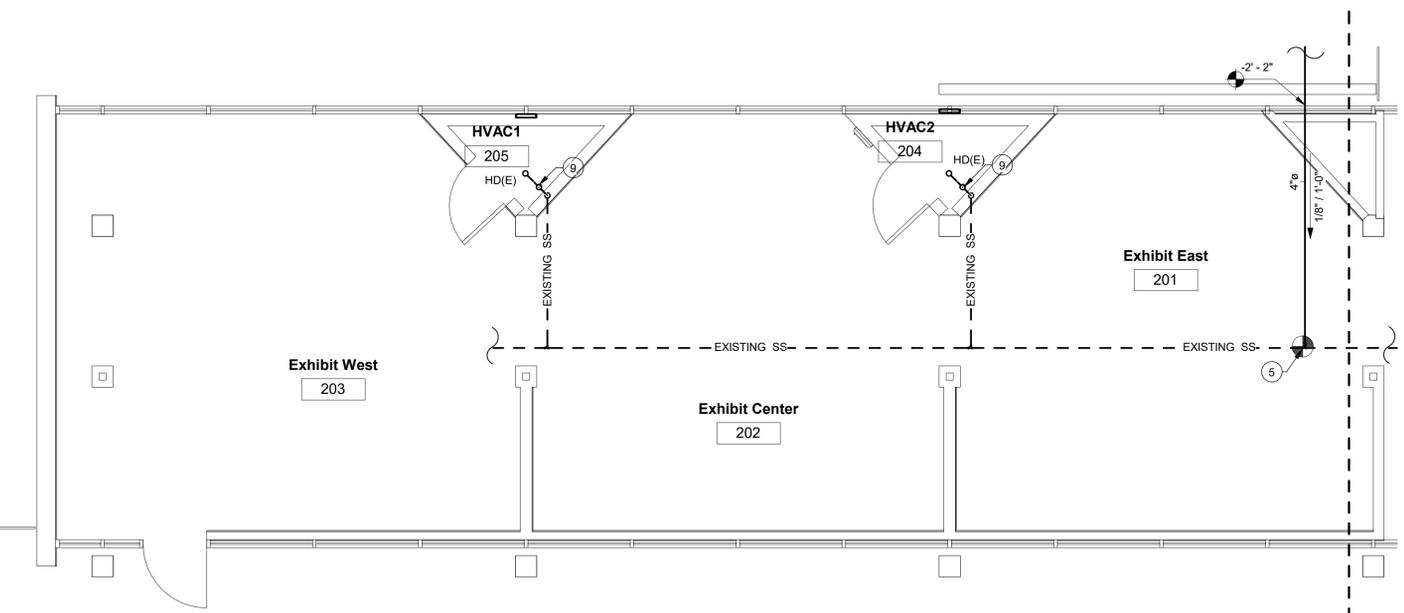
Volts: 120/240 Delta
Phases: 3
Wires: 4

A.I.C. Rating: 30
Main Type: MLO
Mains Rating: 200 A
MCB Rating: 200 A

CKT	Circuit Description	Trip	Poles	Wire Size	A	B	C	Wire Size	Poles	Trips	Circuit Description	CKT
AC-1	NEW CU-3	50 A	3	4#8, 1#10G, 1"C	4880 VA	9000 VA	4880 VA	9000 VA	3	100 A	EXISTING PANEL-A	AC-2
AC-3	Space	--	--	--	0 VA	0 VA	0 VA	0 VA	2	100 A	Space	AC-4
AC-5	Space	--	--	--	0 VA	0 VA	0 VA	0 VA	2	100 A	Space	AC-6
AC-7	PANEL-B	100 A	2	3#12, 1#12G, 1/2"C								



2 PLUMBING SEWER - FIRST FLOOR VISITORS CENTER
P-03 SCALE: 1/4" = 1'-0" REF: M-06



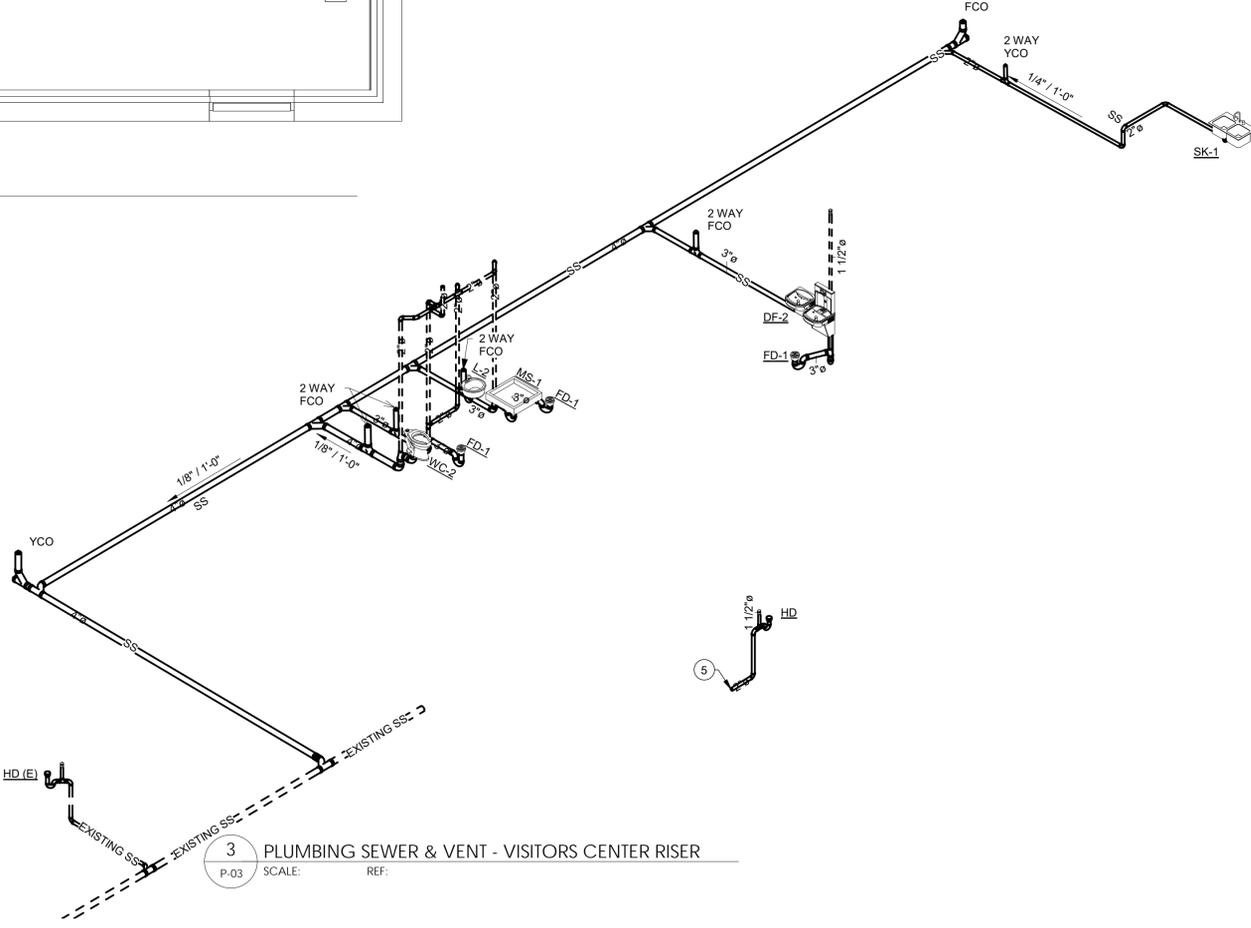
1 PLUMBING SEWER - FIRST FLOOR EXHIBIT AREA
P-03 SCALE: 1/4" = 1'-0" REF: M-06

PLUMBING NOTES:

- A. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES.
- B. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS.
- C. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.
- D. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWING AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING THE WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKER WITH THIS KNOWLEDGE. DRAWING IS SCHEMATIC IN NATURE AND SHOW THE GENERAL LAYOUT OF THE FOLLOWING SYSTEM.
- E. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH THE BUILDING ELEMENTS AND THE WORK WITH THE OTHER TRADES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT. THIS INCLUDE BUT NOT LIMITED TO FURNISHING AND INSTALL ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.

PLUMBING KEYED NOTES

1	HUB DRAIN FOR CONDENSATE FROM AHU'S. COORDINATE LOCATION WITH HVAC CONTRACTOR. PROVIDE SURESEAL MODEL 552059V INLINE 2" DRAIN TRAP SEAL.
2	SAW-CUT THRU CONCRETE TO TRENCH FOR NEW UNDERGROUND PLUMBING. PATCH CONCRETE FLOOR TO MATCH EXISTING. REPAIR REBAR AND PROVIDE NEW MOISTURE BARRIER. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW. HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS. PATCH AND SEAL OPENINGS AS REQUIRED BY STRUCTURAL ENGINEER. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.
3	HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS. PATCH AND SEAL OPENINGS AS REQUIRED. COORDINATE ALL CUTTING AND PATCHING WITH OTHER TRADES.
4	PROVIDE FLOOR DRAIN WITH SURESEAL MODEL NO. SS3009V 3" DRAIN TRAP SEAL.
5	CONNECT NEW SANITARY SEWER LINE TO EXISTING SANITARY SEWER. FIELD VERIFY SIZE, DIRECTION OF FLOW AND LOCATION OF EXISTING SANITARY SEWER.
6	CONNECT NEW VENT TO EXISTING VENT.
7	INSTALL OATEY AIR ADMITTANCE VALVE MODEL 39228, 8 STACK DFU 1.5 IN. REFER DETAIL. INSTALL AIR ADMITTANCE VALVE UNDER COUNTER AS PER MANUFACTURER'S INSTRUCTION. REFER TO DETAIL 16/P-09.
8	INSTALL OATEY AIR ADMITTANCE VALVE MODEL 39228, 8 STACK DFU 1.5 IN. REFER DETAIL. INSTALL AIR ADMITTANCE VALVE AS PER MANUFACTURER'S INSTRUCTION. REFER TO DETAIL 17/P-09.
9	INSTALL OATEY AIR ADMITTANCE VALVE MODEL 39228, 8 STACK DFU 1.5 IN. REFER DETAIL. INSTALL AIR ADMITTANCE VALVE AS PER MANUFACTURER'S INSTRUCTION.



3 PLUMBING SEWER & VENT - VISITORS CENTER RISER
P-03 SCALE: REF: