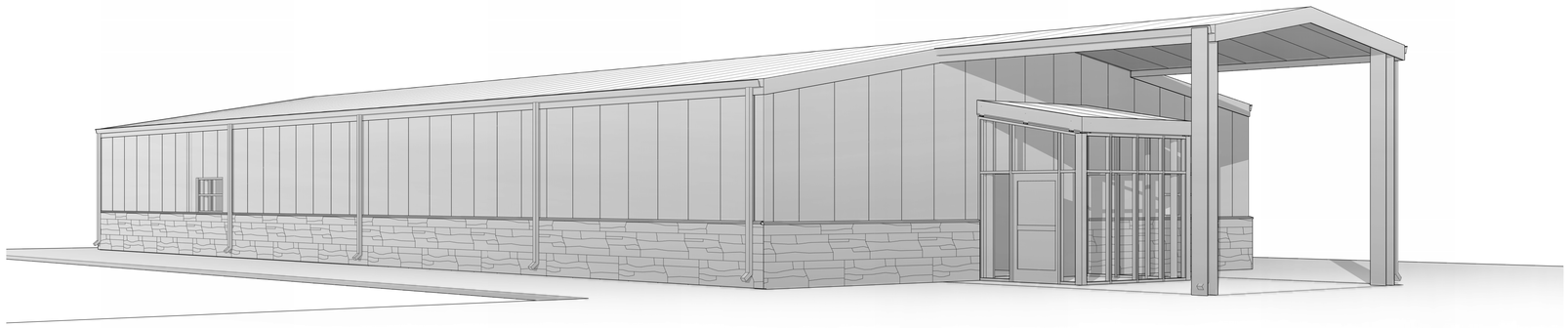
CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS

100% CD's



INDEX OF DRAWINGS

Sheet Number	SHEET NAME	8/16/2024 - 100% CONSTRUCTION DOCUMENTS
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CIVIL		
C1.00	COVER SHEET	■
C2.00	SURVEY 1	■
C2.01	SURVEY 2	■
C3.00	SITE PLAN AND GRADING	■
C4.00	CIVIL DETAILS	■
LIFE SAFETY		
LS0.00	LIFE SAFETY GENERAL & CODE SUMMARY	■
LS0.01	LIFE SAFETY PLANS	■
ARCHITECTURAL		
A0.01	PROJECT INFORMATION	■
AS.00	SITE PLAN	■
A1.00	FLOOR PLAN	■
A2.00	EXTERIOR ELEVATIONS	■
A3.00	WALL SECTIONS AND DETAILS	■
A9.00	ROOF AND CEILING PLAN	■
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S0.00	GENERAL NOTES	■
S0.01	TYPICAL DETAILS	■
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PLUMBING		
P1.1	PLUMBING NOTES, LEGEND, DETAILS, & SCHEDULES	■
P2.0	PLUMBING DEMOLITION PLAN	■
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MECHANICAL		
M1.1	HVAC NOTES, LEGEND, DETAILS, & SCHEDULES	■
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ELECTRICAL		
E1.1	ELECTRICAL LEGEND, NOTES & DETAILS	■
E2.0	ELECTRICAL DEMO PLAN	■
E2.1	LIGHTING PLAN	■
E2.2	POWER PLAN	■
ES1.0	ELECTRICAL SITE PLAN	■
TECHNOLOGY		
T0.00	GENERAL NOTES AND SYMBOLS	■
T0.01	SITE PLAN	■
T1.01	FLOOR PLAN - LEVEL 01 - SECTOR 01	■
Grand total: 32		

WALLACE DESIGN COLLECTIVE
123 N. MARTIN LUTHER KING JR. BLVD
TULSA, OKLAHOMA 74103
(918) 584-5858

CIVIL AND STRUCTURAL ENGINEER

HSA ENGINEERIG CONSULTING SERVICES, INC.
7405 ELLIS ST.
FORT SMITH, AR
(479) 452-8922

MECHANICAL, ELECTRICAL, PLUMBING

MOBLEY FIRE PROTECTION
6242 LLANO AVENUE
DALLAS, TX 75214
(817) 614-2361

FIRE PROTECTION / LIFE SAFETY

CRUX TECHNOLOGY + SECURITY SOLUTIONS
401 SOUTH BOSTON AVE, SUITE 500-15
TULSA, OK 74103
(800) 685-6440

LOW-VOLTAGE, IT, SECURITY

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

PROFESSIONAL SEAL:

STATE OF OKLAHOMA — BRECK CHILDERS — 5120 — REGISTERED ARCHITECT
8/16/2024

CONSULTANT LOGO:

CLIENT:

SEAL OF THE CHEROKEE NATION — Sept. 6, 1839

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **G0.00**
SHEET TITLE: COVER SHEET

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS

GENERAL NOTES:

1. CONDUCT SITE CLEARING OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEPT ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY. RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING JURISDICTION.
2. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES IN ACCORDANCE WITH LOCAL AUTHORITIES.
3. ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS.
4. UNLESS SPECIFIED OTHERWISE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARDS, SPECIFICATIONS, AND REGULATIONS OF THE TOWN OF OCHELATA, OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY, AND STATE DEPARTMENT OF TRANSPORTATION, AND/OR THE APPROPRIATE LOCAL AUTHORITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS, PERMIT FEES, LICENSES, LICENSE FEES, TAP FEES, ETC.
6. ALL ELEVATIONS IN PAVED AREAS ARE TOP OF FINISHED PAVEMENT UNLESS OTHERWISE NOTED.
7. RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY. CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ENGINEER BEFORE ANY UTILITY RELOCATION.
8. NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.

EXCAVATION NOTIFICATION

1. ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS).
2. CONTRACTORS TO CALL 811 (OR VISIT CALL811.COM) TO REQUEST UTILITY LOCATES. ONCE COMPLETION OF MARKINGS HAS BEEN CONFIRMED BY THE CONTRACTOR, NO AUTOMATED OR MECHANICAL EQUIPMENT SHOULD BE USED WITHIN TWO FEET ON EITHER SIDE OF THE MARKINGS (OR ANOTHER MORE STRINGENT TOLERANCE AS DIRECTED), AND EXISTING FACILITIES MUST BE EXPOSED BY HAND.
3. EXISTING UTILITY LOCATIONS SHOWN SHALL BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS OF UNDERGROUND UTILITIES ON THESE DRAWINGS ARE APPROXIMATE ONLY AND BASED ON ACTUAL FIELD LOCATIONS OF VISIBLE STRUCTURES AND PLAN COMPUTATIONS.

SITE ACCESSIBILITY

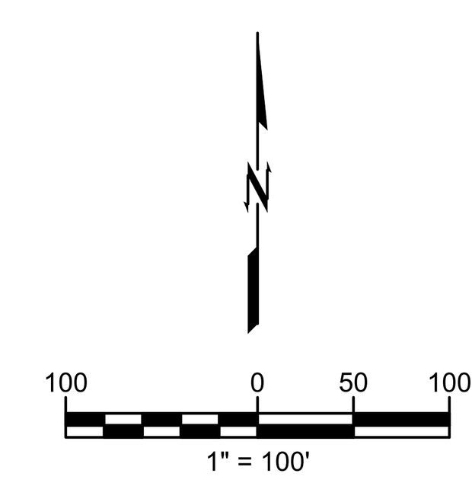
1. ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS, ACCESSIBLE PARKING, AND ACCESSIBLE ROUTES SHALL COMPLY WITH THE APPLICABLE ACCESSIBILITY CODES [AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES; THE PROPOSED PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) PUBLISHED IN THE FEDERAL REGISTER JULY 2011; INTERNATIONAL BUILDING CODE (IBC); ICC A117.1; ETC.]
2. WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THESE GUIDELINES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THESE GUIDELINES WITHOUT PRIOR, WRITTEN PERMISSION FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THESE GUIDELINES, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
3. GENERAL SLOPE GUIDANCE:
   - 3.1. CROSS SLOPES SHALL NOT EXCEED 1:50 (2.0%). PREFERRED SLOPE IS 1.5%.
   - 3.2. RUNNING SLOPES SHALL NOT EXCEED 5% EXCEPT AT RAMPS. PREFERRED MAXIMUM SLOPE IS 4.5%.
   - 3.3. RAMP RUNNING SLOPES SHALL NOT EXCEED 1:12 (8.3%). PREFERRED MAXIMUM SLOPE IS 7.8%.
   - 3.4. SLOPES AT LANDINGS, ACCESSIBLE PARKING STALLS, AND ACCESSIBLE AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION. PREFERRED MAXIMUM SLOPE IS 1.5%.
   - 3.5. EXCEPTIONS WITHIN THE PUBLIC RIGHT-OF-WAY: WHERE THE ESTABLISHED ADJACENT STREET GRADE EXCEEDS 5%, RUNNING SLOPES PARALLEL TO THE STREET SLOPES SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET. CURB RAMP RUNNING SLOPE CAN EXCEED 8.3% TO LIMIT THE RESULTING THE RAMP LENGTH TO 15 FEET.

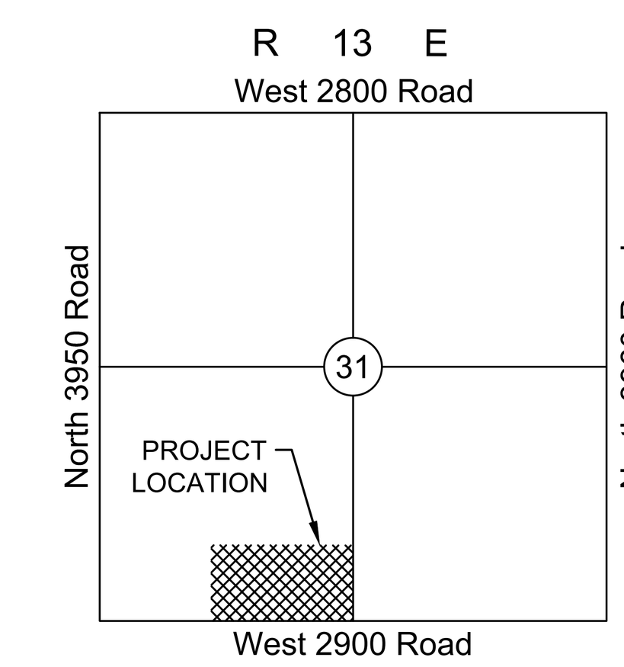
SURVEY

1. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION ARE SHOWN PER THE FIELD SURVEY PERFORMED BY WALLACE DESIGN COLLECTIVE DATED JULY 10, 2023.

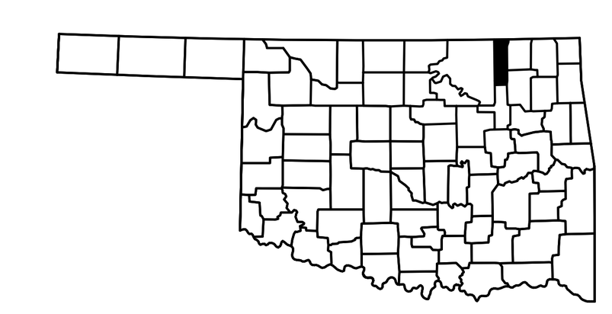
AS-BUILTS:

THE CONTRACTOR SHALL KEEP ON SITE A CURRENT SET OF THE APPROVED CONSTRUCTION WORKING DRAWINGS AT ALL TIMES. THE CONTRACTOR SHALL MARK (IN RED INK) ALL CHANGES MADE TO THE APPROVED PLANS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS, CHANGES MADE BY THE ENGINEER OF RECORD, OR CHANGES REQUESTED BY REPRESENTATIVES OF THE JURISDICTIONS HAVING AUTHORITY. ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE ENGINEER OF RECORD PER AN RFI SUBMITTAL PROCESS. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE ENGINEER OF RECORD AFTER FINAL INSPECTION OF THE PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF FINAL AS-BUILT RECORD DOCUMENTS.





LOCATION MAP
SCALE: NTS



WASHINGTON COUNTY
OKLAHOMA

LEGEND

ABBREVIATIONS

(M)	MEASURED DATA
(R)	RECORD DATA
BC	BACK OF CURB
BL	BUILDING LINE
CL	CENTERLINE
EG	EXISTING GRADE
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOWLINE
GL	GUTTER LINE
HP	HIGH POINT
INV	INVERT
LF	LINEAR FEET
LP	LOW POINT
ME	MATCH EXISTING
RW	RIGHT-OF-WAY
SF	SQUARE FEET
SY	SQUARE YARDS
TBK	TOP OF BANK
TC	TOP OF CURB
TG	TOP OF GRATE
TOE	TOE OF BANK
TP	TOP OF PAVEMENT
TR	TOP OF RIM
TS	TOP OF SIDEWALK
TW	TOP OF WALL

LINETYPES

	CENTERLINE
SF	SILT FENCE
	LIMITS OF CONSTRUCTION
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EASEMENT
X X	FENCE
	PROPERTY LINE
	LOT LINE
	BUILDING SETBACK
FO	FIBER OPTIC
OC	OVERHEAD COMMUNICATION
UC	UNDERGROUND COMMUNICATION
OE	OVERHEAD ELECTRIC
UE	UNDERGROUND ELECTRIC
G	NATURAL GAS
FM	SEWER FORCE MAIN
SS	SANITARY SEWER MAIN
SSL	SANITARY SEWER SERVICE
	DRAINAGE AREA, MAJOR
	DRAINAGE AREA, MINOR
	DRAINAGE FLOW PATH
SD	STORM DRAINAGE PIPE
F	FIRE LINE
W	WATER LINE
WSL	WATER SERVICE LINE
IRR	IRRIGATION LINE

SYMBOLS

	UTILITY POLE
LP	LIGHT POLE
	GUY ANCHOR
EB	ELECTRIC BOX
EM	ELECTRIC METER
XFMR	ELECTRIC TRANSFORMER
A/C	A/C UNIT
E	ELECTRIC MANHOLE
GM	GAS METER
GV	GAS VALVE
W	OIL/GAS WELLHEAD
VENT	VENT PIPE
PLM	PIPELINE MARKER
C	COMMUNICATION PEDESTAL
C	COMMUNICATION MANHOLE
CO	SEWER CLEAN-OUT
SS	SANITARY SEWER MANHOLE
DS	DOWNSPOUT
RD	ROOF DRAIN
SD	STORM DRAIN MANHOLE
FDC	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
ICV	IRRIGATION CONTROL VALVE
WSO	SHUT-OFF VALVE
SP	SPRINKLER HEAD
WM	WATER METER
WV	WATER VALVE
YH	YARD HYDRANT
PB	PIPE BOLLARD
	BENCHMARK
	ACCESSIBLE PARKING
MB	MAILBOX
MW	MONITORING WELL
	POTHOLE

SITE BENCHMARKS
BENCHMARK 1 1/2" IRON PIN ELEV=732.40 N=587869.5210 E=2566591.5420

TOTAL DISTURBED AREA	0.84 ACRES
EXISTING IMPERVIOUS AREA	36,552 SF
PROPOSED IMPERVIOUS AREA	23,422 SF
INCREASE IN IMPERVIOUS AREA	13,130 SF

CONTACTS:

CITY
THE TOWN OF OCHELATA
OCHELATA MUNICIPAL BUILDING
PO BOX 268
OCHELATA OK 74051

WATER
THE TOWN OF OCHELATA
OCHELATA MUNICIPAL BUILDING
PO BOX 268
OCHELATA OK 74051

SANITARY
THE TOWN OF OCHELATA
OCHELATA MUNICIPAL BUILDING
PO BOX 268
OCHELATA OK 74051

ENGINEER
WALLACE DESIGN COLLECTIVE, PC
123 NORTH MARTIN LUTHER KING JR BOULEVARD
TULSA, OKLAHOMA 74103
(918) 584-5858

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C1.00	COVER SHEET
C2.00	SURVEY 1
C2.01	SURVEY 2
C3.00	SITE PLAN AND GRADING
C4.00	CIVIL DETAILS

811 Know what's below. Call before you dig.

CAUTION
NOTICE TO CONTRACTOR

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

PROFESSIONAL SEAL:
LICENSED PROFESSIONAL ENGINEER
Eric Allen LaMont
28514
OKLAHOMA
8/16/2024

CONSULTANT LOGO:

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wallace design collective, pc
structural · civil · landscape · survey
123 north martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5858
oklahoma ca1460
exp: 6-30-25

CL

SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

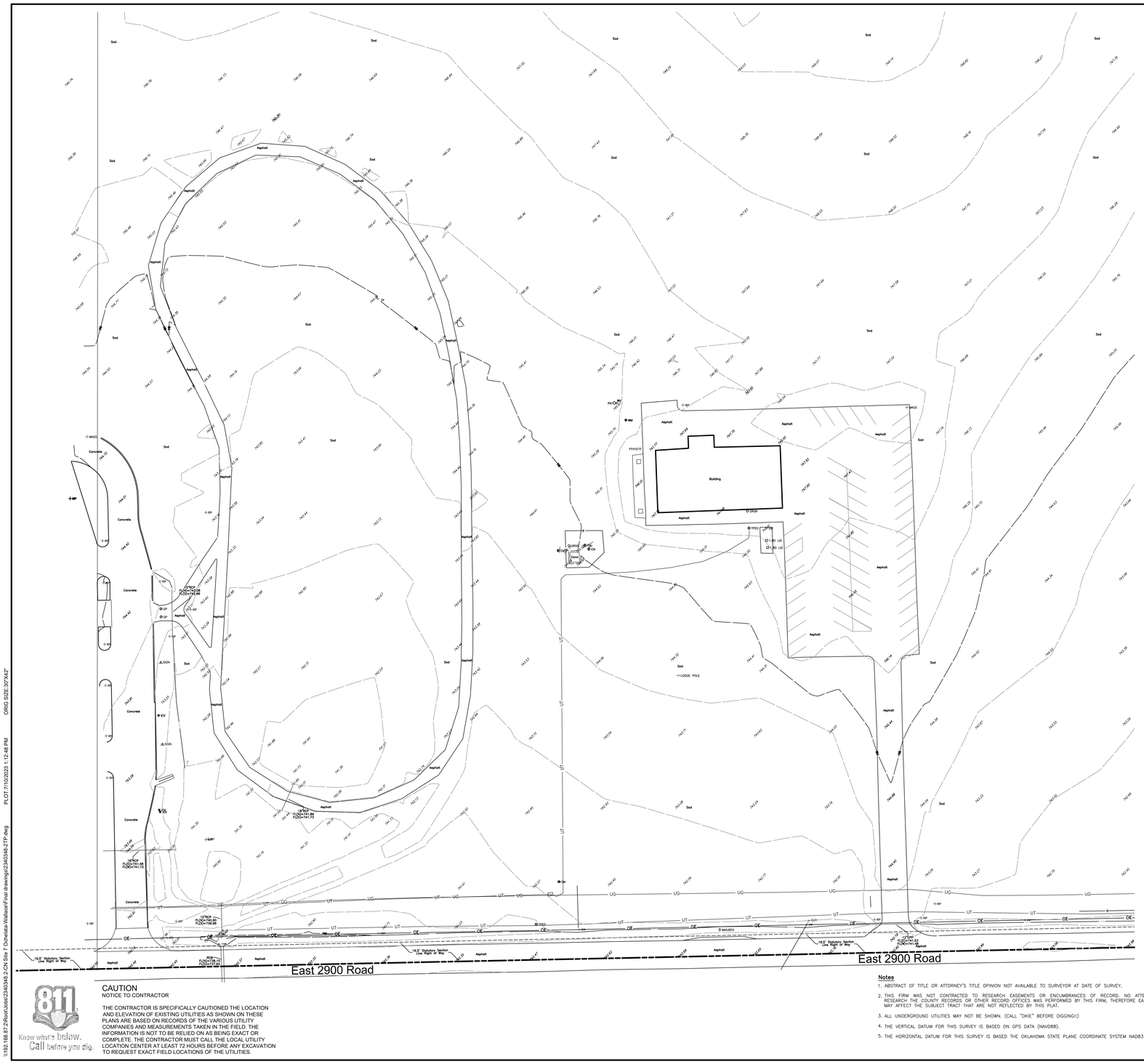
CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: C1.00
SHEET TITLE: COVER SHEET



30 0 15 30
1" = 30'

R 13 E
West 2800 Road
North 3950 Road
31
North 3960 Road
T 25 N
West 2900 Road
Location Map
Scale 1"=2000'

Benchmark Notes
Benchmark
1/2" IRON PIN
ELEV=732.40
N=587869.5210
E=2568591.5420

Legend

ACC	ACCESS	OT	OVERHEAD TELEPHONE
A/C	AIR CONDITIONER	OU	OVERHEAD UTILITIES
BLDG	BUILDING	PIV	POST INDICATOR VALVE
B/L	BUILDING SETBACK LINE	PP	POWER POLE
BW	BOTTOM OF WALL	PVC	POLYVINYL CHLORIDE PIPE
CMP	CORRUGATED METAL PIPE	RCB	REINFORCED CONCRETE BOX
CL	CENTERLINE	RCP	REINFORCED CONCRETE PIPE
CO	SEWER CLEAN-OUT	RR	RAILROAD
CONC	CONCRETE	R/W	RIGHT-OF-WAY
CPED	CABLE TELEVISION PEDESTAL	SC	SUPPORT COLUMN
DGDI	DOUBLE GRATE DROP INLET	SD	STORM DRAIN
DS	DOWNSPOUT	SDMH	STORM DRAIN MANHOLE
EM	ELECTRIC METER	SGDI	SINGLE GRATE DROP INLET
EPED	ELECTRIC PEDESTAL	SPHD	SPRINKLER HEAD
ESMT	EASEMENT	SS	SANITARY SEWER
EX	EXISTING	SSLH	SANITARY SEWER LAMPHOLE
FF	FINISH FLOOR	SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT	TC	TOP OF CURB
FL	FLOWLINE (INVERT)	TG	TOP OF INLET GRATE
FNC	FENCE	TGDI	TRIPLE GRATE DROP INLET
FND	FOUND	TH	TOP OF HEADWALL
FP	FLAGPOLE	TP	TOP OF PAVING
G	GUTTER	TPED	TELEPHONE PEDESTAL
GL	GROUND LIGHT	TR	TOP OF MANHOLE RIM
GM	GAS METER	TSMH	TRAFFIC SIGNAL MANHOLE
GP	GUARD POST	TRSL	TRAFFIC SIGNAL
GR	GAS RISER	TW	TOP OF WALL
GUY	GUY DOWN	TYP	TYPICAL
ICV	IRRIGATION CONTROL VALVE	UC	UNDERGROUND CABLE
IP	IRON PIN	UG	UNDERGROUND GAS LINE
LNA	LIMITS OF NO ACCESS	UE	UNDERGROUND ELECTRIC
LP	LIGHT POLE	U/E	UTILITY EASEMENT
MA/E	MUTUAL ACCESS EASEMENT	UT	UNDERGROUND TELEPHONE
MB	MAIL BOX	UTMH	UTILITY MANHOLE
ML	METAL LID	WL	WATERLINE
MW	MONITOR WELL	WM	WATER METER
OC	OVERHEAD CABLE	WV	WATER VALVE
OE	OVERHEAD ELECTRIC	WW	WING WALL
OGE	OGE ENERGY CORPORATION	XFMR	TRANSFORMER
ONG	OKLAHOMA NATURAL GAS		

BM =BENCHMARK

Topographic Survey
of part of the
S/2, SW/4
Section 31, T-25-N, R-13-E
Washington County, Oklahoma

Surveyor's Certification

WE, WALLACE DESIGN COLLECTIVE, HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO. SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 10TH DAY OF JULY, 2023.

CERTIFIED PROFESSIONAL LAND SURVEYOR CLIFF BENNETT 1815 OKLAHOMA

BY: _____
CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815

FILE:	2513.31	SURVEY BY:	RWE	DATE:	07/10/23
ORDER:	2340348.2	DRAWN BY:	ABS	SCALE:	1"=30'
BOOK:		CHECKED BY:	CDB	SHEET	1 OF 2

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.

Know what's below. Call before you dig.

SURVEY NOTE:
THIS SHEET IS FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS INTENDED FOR GENERAL SURVEY INFORMATION ONLY. SURVEY INFORMATION WAS REPRODUCED BY ELECTRONIC TRANSFER FROM THE SURVEYOR. ORIGINAL SURVEY DRAWINGS AVAILABLE FROM THE SURVEYOR.
NOTE: SURVEY SCALED TO FIT PAGE.

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Xref ..\2440172-Survey Base.dwg

\\192.168.87.2\Root\Jobs\2340348.2-CN Site 7 Ochelata-Wallace\Final drawings\2340348-2TP.dwg PLOT:7/10/2023 1:12:48 PM ORIG SIZE:30"X42"

wallace design collective
wallace design collective, pc
structural· civil· landscape· survey
123 north martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5838
oklahoma ca1460
exp: 6-30-25

CN Housing Site 7
Ochelata, Oklahoma

REV	DESCRIPTION	DATE
1	REV1DESC	REV1DATE
2	REV2DESC	REV2DATE
3	REV3DESC	REV3DATE
4	REV4DESC	REV4DATE
5	REV5DESC	REV5DATE

DATE 7/10/23
PROJECT NO. 2340348.2
SHEET NAME
TOPOGRAPHIC SURVEY
SHEET NO.
S1.0

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

PROFESSIONAL SEAL:

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918.584.5838
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exp: 6-30-25

CL:

SEAL OF THE CHEROKEE NATION SEPT. 6, 1839 FOREVER

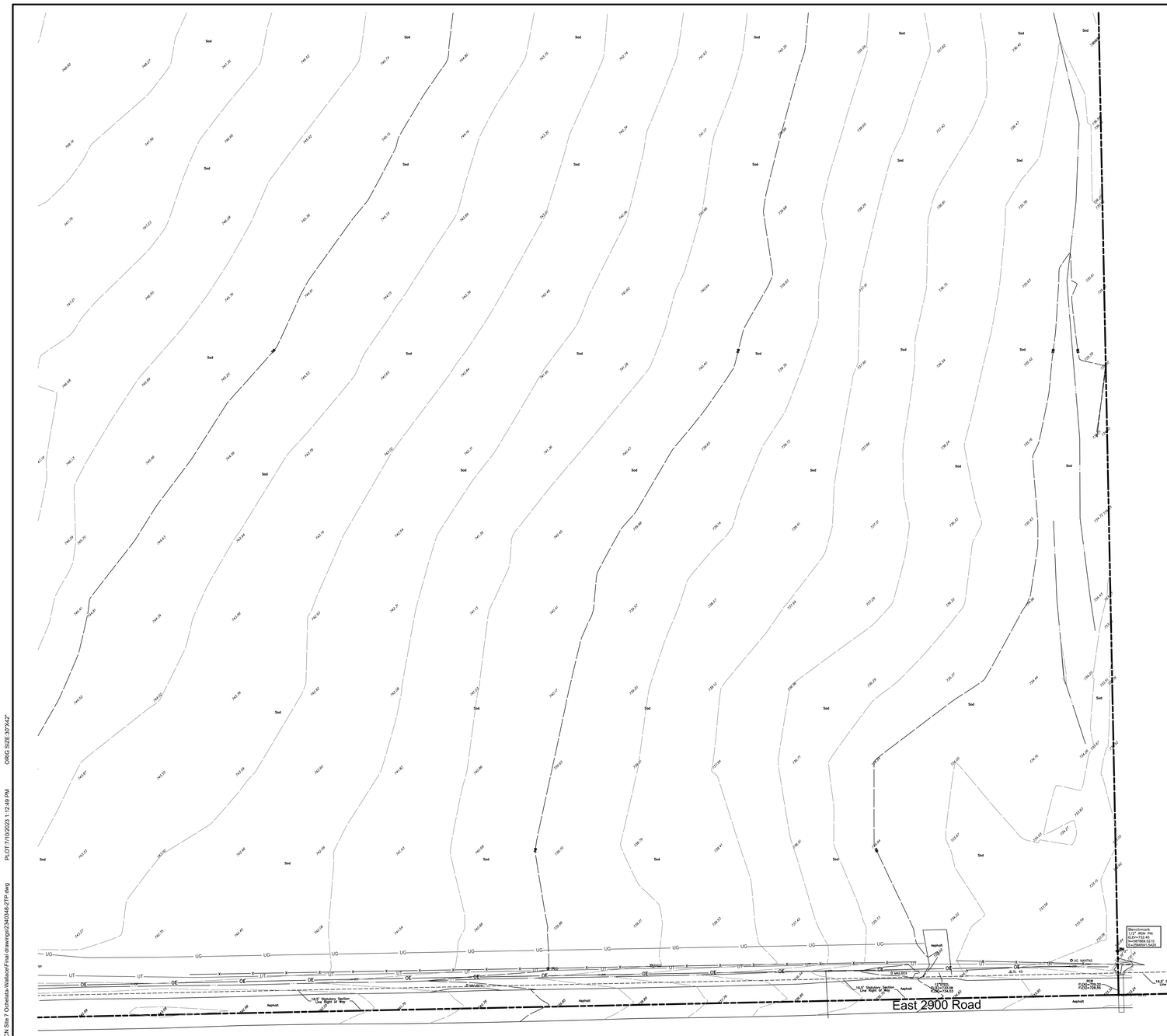
CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

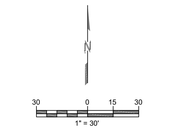
KEY PLAN:

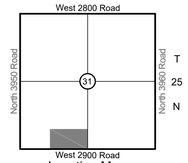
PROJECT PHASE:
100% CD's

REVISIONS

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **C2.00**
SHEET TITLE: SURVEY 1







Location Map
Scale 1"=2000'

Benchmark Notes
Benchmark
1/2" IRON PIN
ELEV=732.40
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Legend

ACC	ACCESS	OT	OVERHEAD TELEPHONE
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B/L	BUILDING SETBACK LINE	PP	POWER POLE
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CMP	CORRUGATED METAL PIPE	RCB	REINFORCED CONCRETE BOX
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CO	SEWER CLEAN-OUT	RR	RAILROAD
CONC	CONCRETE	R/W	RIGHT-OF-WAY
CPED	CABLE TELEVISION PEDESTAL	SC	SUPPORT COLUMN
DGDI	DOUBLE GRATE DROP INLET	SD	STORM DRAIN
EM	ELECTRIC METER	SDMH	STORM DRAIN MANHOLE
EPED	ELECTRIC PEDESTAL	SGDI	SINGLE GRATE DROP INLET
ESMT	EASEMENT	SPHD	SPRINKLER HEAD
EX	EXISTING	SS	SANITARY SEWER
FF	FINISH FLOOR	SSLH	SANITARY SEWER LAMPHOLE
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FL	FLOWLINE (INVERT)	TC	TOP OF CURB
FNC	FENCE	TG	TOP OF INLET GRATE
FND	FOUND	TGDI	TRIPLE GRATE DROP INLET
FP	FLAGPOLE	TH	TOP OF HEADWALL
G	GUTTER	TP	TOP OF PAVING
GL	GROUND LIGHT	TPED	TELEPHONE PEDESTAL
GM	GAS METER	TR	TOP OF MANHOLE RIM
GP	GUARD POST	TSMH	TRAFFIC SIGNAL MANHOLE
GR	GAS RISER	TRSL	TRAFFIC SIGNAL
GUY	GUY, DOWN	TW	TOP OF WALL
ICV	IRRIGATION CONTROL VALVE	TYP	TYPICAL
IP	IRON PIN	UC	UNDERGROUND CABLE
LNA	LIMITS OF NO ACCESS	UG	UNDERGROUND GAS LINE
LP	LIGHT POLE	UE	UNDERGROUND ELECTRIC
MA/E	MUTUAL ACCESS EASEMENT	U/E	UTILITY EASEMENT
MB	MAIL BOX	UT	UNDERGROUND TELEPHONE
ML	METAL LID	UTMH	UTILITY MANHOLE
MW	MONITOR WELL	WL	WATERLINE
OC	OVERHEAD CABLE	WM	WATER METER
OE	OVERHEAD ELECTRIC	WV	WATER VALVE
OGE	OGE ENERGY CORPORATION	WW	WING WALL
ONG	OKLAHOMA NATURAL GAS	XFMR	TRANSFORMER

BM =BENCHMARK

Topographic Survey
of part of the
S/2, SW/4
Section 31, T-25-N, R-13-E
Washington County, Oklahoma

Surveyor's Certification

WE, WALLACE DESIGN COLLECTIVE, HEREBY CERTIFY THAT THE TOPOGRAPHICAL INFORMATION HEREON REPRESENTS A SURVEY PERFORMED UNDER OUR DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE.

THIS TOPO SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, AS ADOPTED BY THE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS FOR THE STATE OF OKLAHOMA.

WITNESS MY HAND AND SEAL THIS 10TH DAY OF JULY, 2023.

BY: _____
CLIFF BENNETT
REGISTERED PROFESSIONAL LAND SURVEYOR
OKLAHOMA NO. 1815

Notes
1. ABSTRACT OF TITLE OR ATTORNEY'S TITLE OPINION NOT AVAILABLE TO SURVEYOR AT DATE OF SURVEY.
2. THIS FIRM WAS NOT CONTRACTED TO RESEARCH EASEMENTS OR ENCUMBRANCES OF RECORD. NO ATTEMPT TO RESEARCH THE COUNTY RECORDS OR OTHER RECORD OFFICES WAS PERFORMED BY THIS FIRM, THEREFORE EASEMENTS MAY AFFECT THE SUBJECT TRACT THAT ARE NOT REFLECTED BY THIS PLAT.
3. ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. (CALL "OKIE" BEFORE DIGGING!!)
4. THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON GPS DATA (NAVD88).
5. THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED THE OKLAHOMA STATE PLANE COORDINATE SYSTEM NAD83.

FILE:	2513.31	SURVEY BY:	RWE	DATE:	07/10/23
ORDER:	2340348.2	DRAWN BY:	ABS	SCALE:	1"=30'
BOOK:		CHECKED BY:	CDB	SHEET	2 OF 2

811 Know what's below. Call before you dig.

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES.

SURVEY NOTE:
THIS SHEET IS FOR THE CONVENIENCE OF THE CONTRACTOR. IT IS INTENDED FOR GENERAL SURVEY INFORMATION ONLY. SURVEY INFORMATION WAS REPRODUCED BY ELECTRONIC TRANSFER FROM THE SURVEYOR. ORIGINAL SURVEY DRAWINGS AVAILABLE FROM THE SURVEYOR.
NOTE: SURVEY SCALED TO FIT PAGE.

811 Know what's below. Call before you dig.

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wallace design collective
wallace design collective, pc
structural· civil· landscape· survey
123 north martin luther king jr. blvd.
tulsa, oklahoma 74103
918.584.5838
oklahoma ca1460
exp: 6-30-25

CLIFF BENNETT 1815 — REGISTERED PROFESSIONAL LAND SURVEYOR — OKLAHOMA

CN Housing Site 7
Ochelata, Oklahoma

REV	DESCRIPTION	DATE
1	REV1DESC	REV1DATE
2	REV2DESC	REV2DATE
3	REV3DESC	REV3DATE
4	REV4DESC	REV4DATE
5	REV5DESC	REV5DATE

DATE 7/10/23
PROJECT NO. 2340348.2
SHEET NAME
TOPOGRAPHIC SURVEY
SHEET NO. S2.0

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

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CONSULTANT LOGO:
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GL:

SEAL OF THE CHEROKEE NATION — SEPT. 6, 1839

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

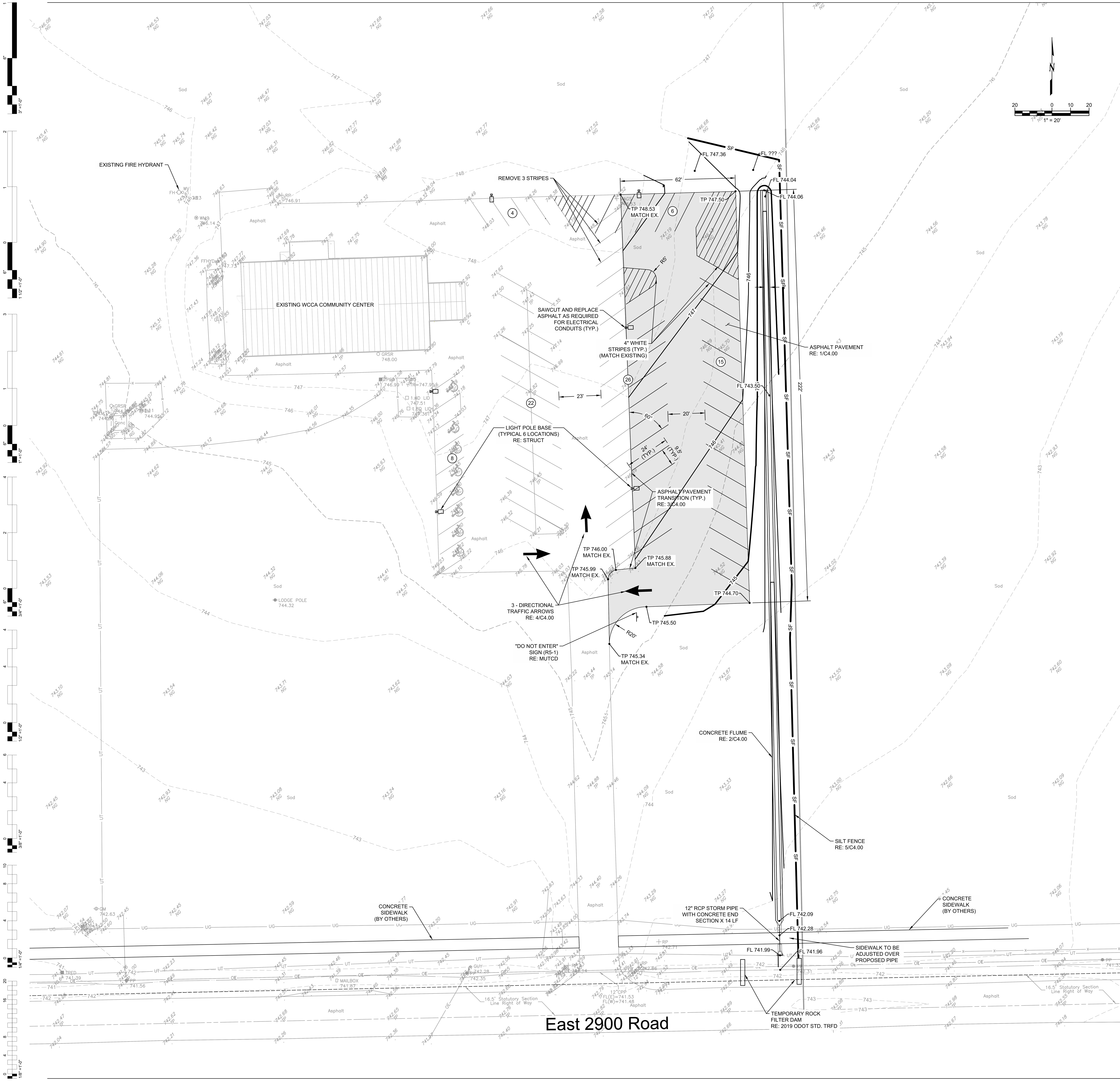
KEY PLAN:

PROJECT PHASE: **100% CD's**

REVISIONS

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **C2.01**
SHEET TITLE: SURVEY 2

\192.168.87.2\RootUsbs\2340348.2-CN Site 7 Ochelata-Wallace\Final drawings\2340348-2-TP.dwg PLOT:7/10/2023 1:12:49 PM ORIG SIZE:30"X42"



GENERAL SITE NOTES:

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL MUNICIPAL REGULATIONS AND CODES, WHICHEVER IS MORE STRINGENT.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH O.S.H.A. STANDARDS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES' SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.

LEGEND

STANDARD DUTY ASPHALT PAVEMENT
RE: 1/C4.00 & 2/C4.00

PARKING SPACE TABLE

PROPOSED	SPACES
STANDARD SPACES*	73
EXISTING ADA SPACES	8
TOTAL:	81

*INCLUDES REMOVED SPACES

Know what's **below.** **Call** before you dig.

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PROFESSIONAL SEAL:
LICENSED PROFESSIONAL ENGINEER Eric Allen LaMont 28514 OKLAHOMA
8/16/2024

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oklahoma ca1460
exp: 6-30-25

CL
SEAL OF THE CHEROKEE NATION SEPT. 6, 1839

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS

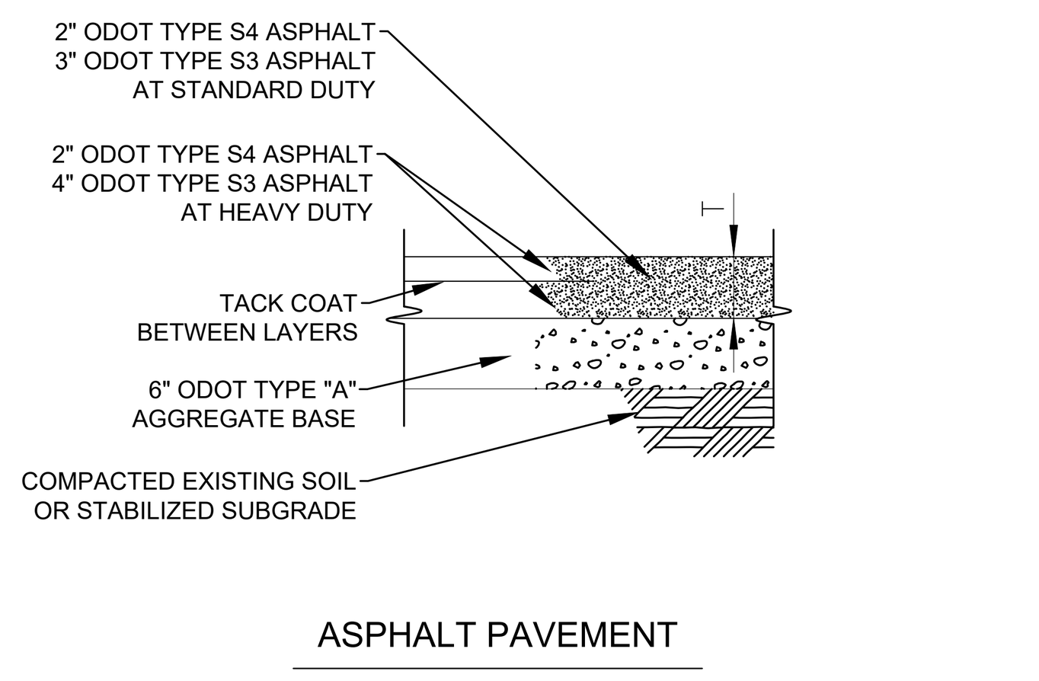
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

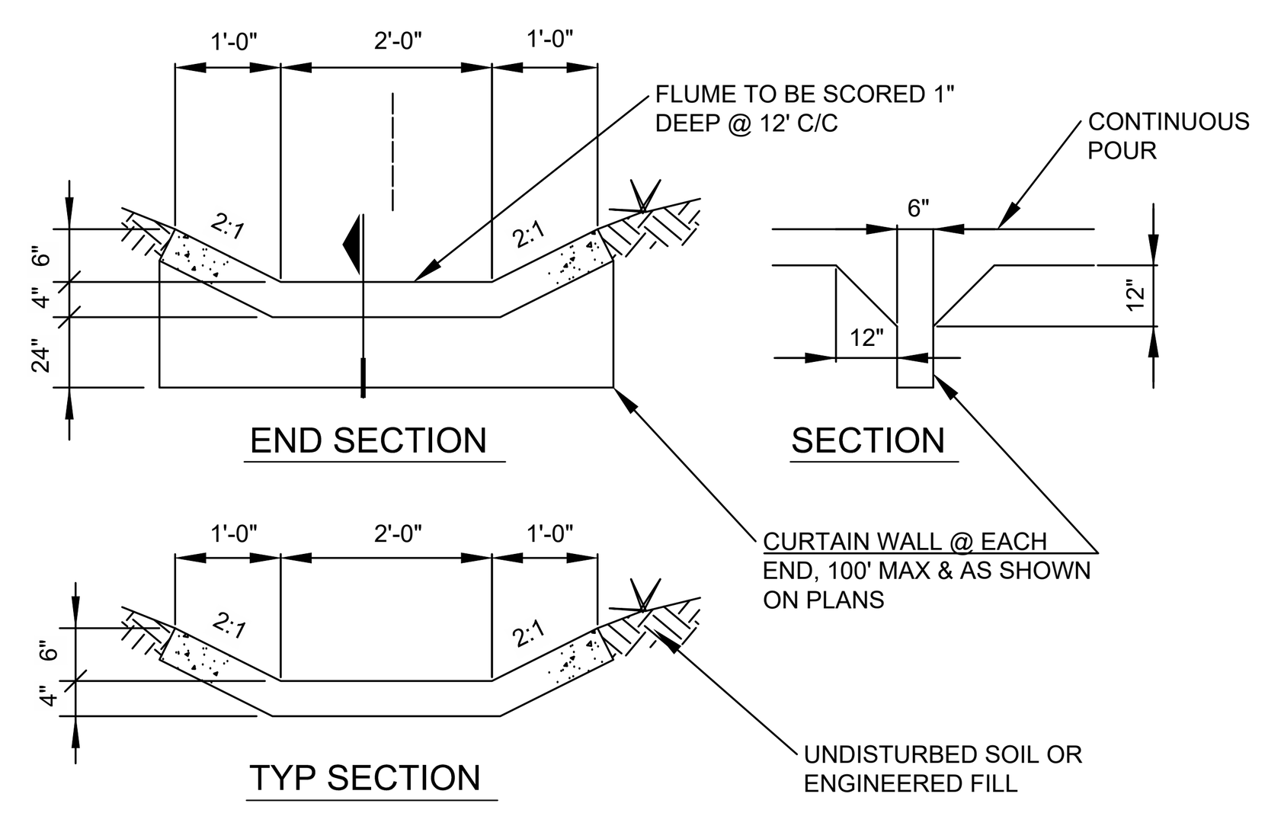
PROJECT PHASE: 100% CD's

REVISIONS

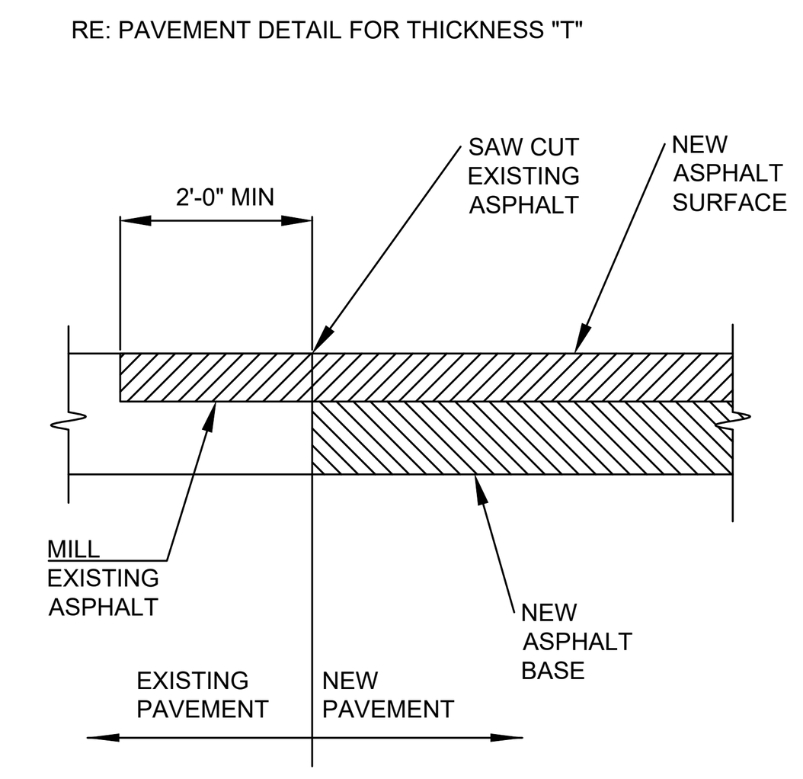
JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: C3.00
SHEET TITLE: SITE PLAN AND GRADING



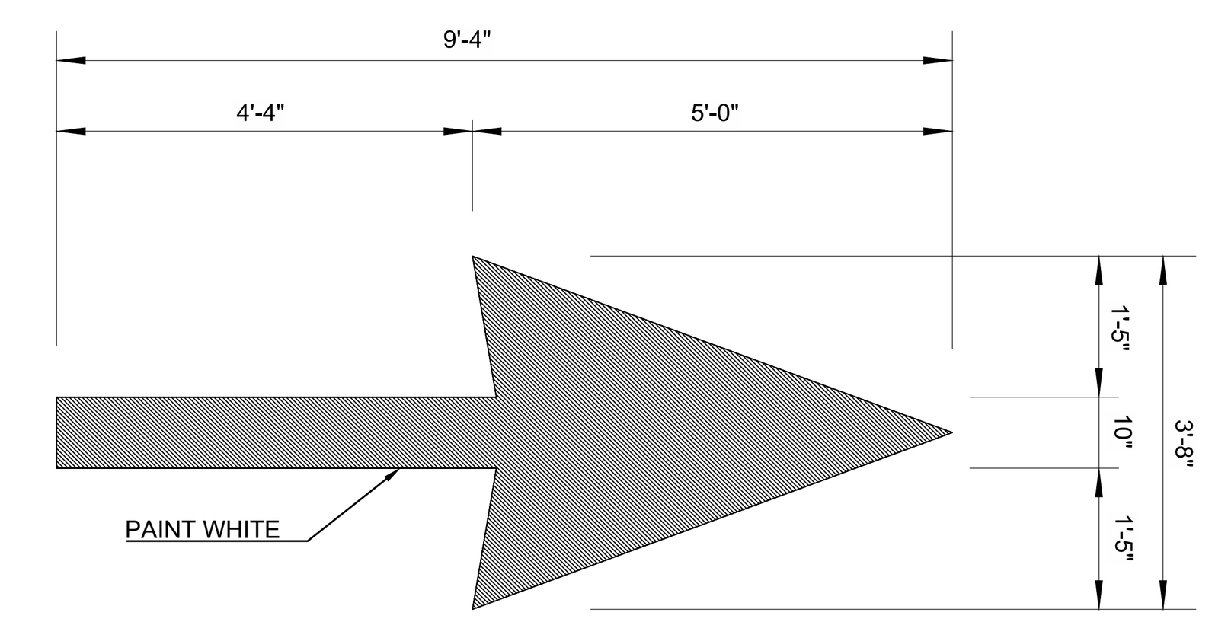
1 TYPICAL PAVEMENT SECTIONS
SCALE: NTS



2 CONCRETE FLUME
SCALE: NTS

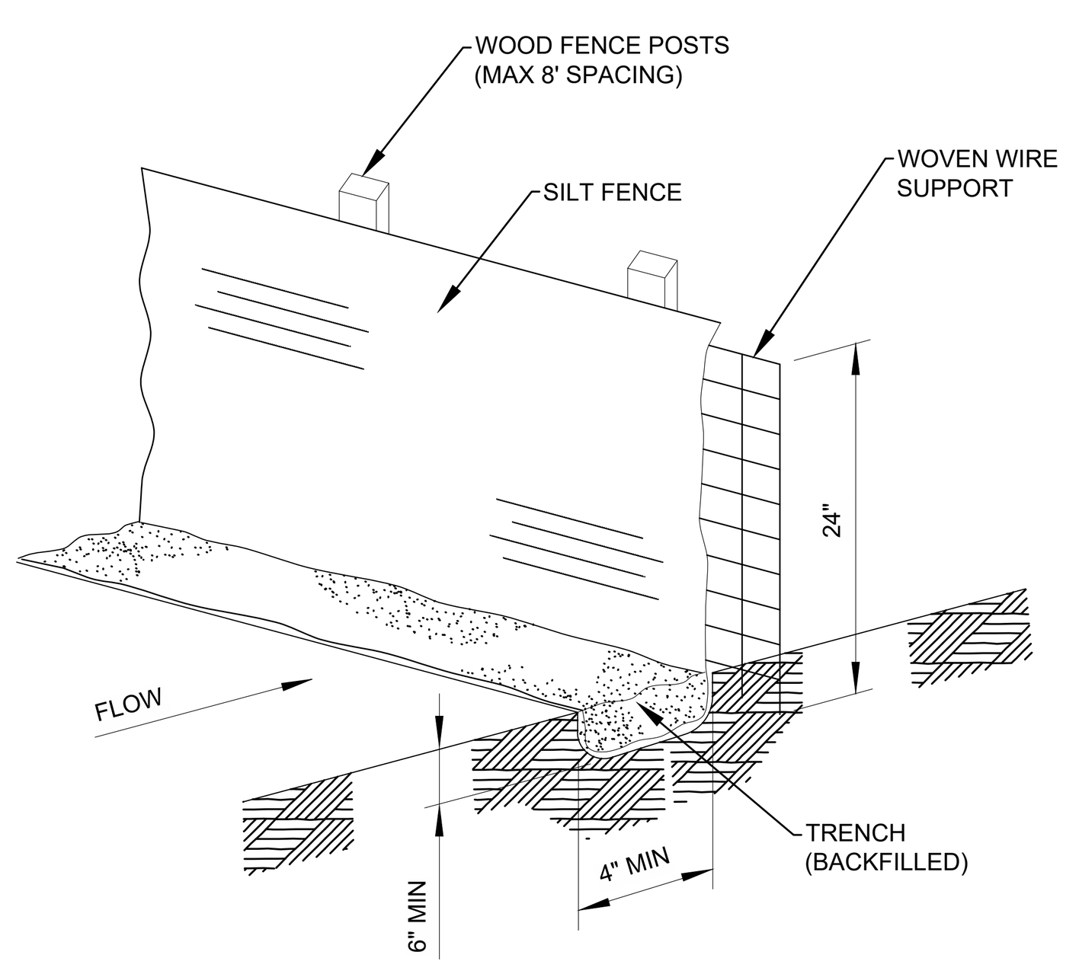


3 ASPHALT TRANSITION
SCALE: NTS



4 DIRECTIONAL ARROWS
SCALE: NTS

POSTS SHALL BE INSTALLED AT A SLIGHT ANGLE AGAINST THE FLOW
SILT FENCE SHALL BE SECURELY FASTENED TO EACH POST OR TO THE WOVEN WIRE WHICH IS IN TURN ATTACHED TO THE FENCE POSTS



5 SILT FENCE
SCALE: NTS

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CL

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **C4.00**
SHEET TITLE: CIVIL DETAILS

LIFE SAFETY CODE SUMMARY

APPLICABLE CODES & STANDARDS

INTERNATIONAL BUILDING CODE, 2018 EDITION (IBC)
INTERNATIONAL FIRE CODE, 2018 EDITION (IFC)
INTERNATIONAL MECHANICAL CODE, 2018 EDITION (IMC)
INTERNATIONAL PLUMBING CODE, 2018 EDITION (IPC)
ICC A117.1, *ACCESSIBLE & USABLE BUILDINGS & FACILITIES*, 2009 EDITION
NFPA 10, *STANDARD FOR PORTABLE FIRE EXTINGUISHERS*, 2018 EDITION

GENERAL PROJECT INFORMATION

PROJECT TYPE

☒ NEW CONSTRUCTION ☐ ADDITION ☐ MODIFICATION

AUTOMATIC SPRINKLER PROTECTION

☐ NFPA 13 ☐ NFPA 13R ☐ PARTIAL ☒ NONE

SPECIAL CONSIDERATIONS

☐ ATRIUM ☐ HIGH-RISE ☐ HAZ MAT ☐ PEDESTRIAN BRIDGE

ALTERNATE MEANS & METHODS

1 _____

2 _____

OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION		REFERENCE
MIXED-USE	NONSEPARATED	IBC §508.3
MAIN OCCUPANCY		
ASSEMBLY GROUP A-3	COMMUNITY & MULTI-PURPOSE	IBC §303.4
STORAGE GROUP S-2	STORAGE	IBC §311.3

ACCESSORY OCCUPANCIES		IBC §508.2
BUSINESS GROUP B	OFFICE	IBC §304.1

CONSTRUCTION

CONSTRUCTION CLASSIFICATION — REFERENCE

CONSTRUCTION TYPE VB	IBC CH. 6
BUILDING ELEMENT	**FIRE RATING**
PRIMARY STRUCTURAL FRAME	0-HOUR
BEARING WALLS (INTERIOR & EXTERIOR)	0-HOUR
NONBEARING WALLS (INTERIOR & EXTERIOR)	0-HOUR
FLOOR CONSTRUCTION	0-HOUR
ROOF CONSTRUCTION	0-HOUR

BUILDING HEIGHT, STORIES, & AREA — REFERENCE

LIMIT/ACTUAL	HEIGHT	STORIES	AREA	IBC CH. 5
MAXIMUM	40 FT	1	6,000 SF	
ACTUAL	25 FT	1	5,136 SF	

INTERIOR FINISH

COMPONENT	CLASS	REFERENCE
CORRIDORS	A	IBC §803.13
ROOMS/ENCLOSED SPACES	B	IBC §803.13

MEANS OF EGRESS

EGRESS CAPACITY

COMPONENT	FACTOR	REFERENCE
STAIRWAY	0.30 IN/PERSON	IBC §1005.3
OTHER EGRESS COMPONENTS	0.20 IN/PERSON	IBC §1005.3

OCCUPANT LOAD

COMPONENT	FACTOR	REFERENCE
ASSEMBLY - UNCONCENTRATED	15 SF/PERSON (NET)	IBC §1004
BUSINESS AREAS	150 SF/PERSON (GROSS)	IBC §1004
ACCESSORY STORAGE	300 SF/PERSON (GROSS)	IBC §1004

NUMBER OF EXITS

APPLICATION	MIN. # OF EXITS	REFERENCE
GROUP A: OL < 50 | CP < 75 FT	1	IBC §1006.2.1
GROUP B: OL < 50 | CP < 75 FT	1	IBC §1006.2.1
GROUP S: OL < 30 | CP < 100 FT	1	IBC §1006.2.1
OL ≤ 500 PER STORY	2	IBC §1006.3.2

OL - OCCUPANT LOAD | CP - COMMON PATH OF TRAVEL

EXIT SEPARATION

APPLICATION	SEPARATION	REFERENCE
≥ 2 EXITS REQUIRED	1/2 DIAGONAL DIM. OF SPACE	IBC §1007.1.1

EXIT ACCESS TRAVEL DISTANCE — REFERENCE

OCCUPANCY	CP	TRAVEL	DEAD-END	IBC §§ 1006,1017,1020
GROUP A-3	75 FT	200 FT	20 FT	
GROUP B	75 FT	200 FT	20 FT	
GROUP S-2	100 FT	300 FT	20 FT	

MINIMUM EGRESS WIDTH

COMPONENT	MIN. WIDTH	REFERENCE
DOOR	32 IN	IBC §1010.1.1
STAIR - OL < 50	36 IN	IBC §1011
STAIR - OL 50 ≤ X < 2,000	44 IN	IBC §1011
CORRIDOR - OL ≥ 50	44 IN	IBC §1020.2
CORRIDOR - OL < 50	36 IN	IBC §1020.2
CORRIDOR - MEP EQUIP. ACCESS	24 IN	IBC §1020.2

OL - OCCUPANT LOAD

DOOR SWING & PANIC HARDWARE

APPLICATION	REQUIREMENT	REFERENCE
OL > 50	SWING IN DIRECTION OF EGRESS TRAVEL	IBC §1010.1.2
OL > 50	PANIC OR FIRE EXIT HARDWARE	IBC §1010.1.10

OL - OCCUPANT LOAD

MEANS OF EGRESS ILLUMINATION

APPLICATION	LOCATION	REFERENCE
NORMAL	MEANS OF EGRESS FOR OCCUPIED SPACE	IBC §1008.2
NORMAL	EXIT DISCHARGE TO PUBLIC WAY	IBC §1008.2
EMERGENCY	ROOM/SPACE REQUIRING ≥ 2 EXITS	IBC §1008.3
EMERGENCY	EXIT ENCLOSURES	IBC §1008.3
EMERGENCY	EXIT DISCHARGE LANDINGS & VESTIBULES	IBC §1008.3
EMERGENCY	ELECTRICAL RM & RESTROOM > 300 SF	IBC §1008.3

EXIT SIGNS

TYPE	LOCATION	REFERENCE
ILLUMINATED	ROOM/SPACE REQUIRING ≥ 2 EXITS	IBC §1013.1
ILLUMINATED	PATH TO EXITS & WITHIN EXITS	IBC §1013.1
ILLUMINATED	PATH OF TRAVEL NOT CLEARLY VISIBLE	IBC §1013.1
ILLUMINATED	INTERVENING EGRESS WITHIN EXITS	IBC §1013.1
ILLUMINATED	AT 100 FT INTERVALS ALONG EGRESS	IBC §1013.1

FIRE & LIFE SAFETY SYSTEMS

PORTABLE FIRE EXTINGUISHERS

HAZARD TYPE	APPLICATION	REFERENCE
CLASS A	ORDINARY COMBUSTIBLES	NFPA 10 §5.2.1
CLASS B	FLAMMABLE/COMBUSTIBLE LIQUIDS	NFPA 10 §5.2.2
CLASS C	ENERGIZED ELECTRICAL EQUIP.	NFPA 10 §5.2.3
CLASS K	COMBUSTIBLE COOKING MEDIA	NFPA 10 §5.2.5

MAIN HAZARD	PFE TYPE	MAX. AREA	TRAVEL	REFERENCE
CLASS A&C	ABC	11,250 SF	75 FT TO PFE	NFPA 10 §6.2.1
CLASS K	K		30 FT TO PFE	NFPA 10 §6.6

PLUMBING FIXTURE COUNT

USE	OL	TOILET M	TOILET F	LAVATORY M	LAVATORY F	TUB/ SHOWER	DRINK FOUNT.	SERVICE SINK
ASSEMBLY	172	3		3		-	1	1

OL - OCCUPANT LOAD | M - MALE | F - FEMALE

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PROFESSIONAL SEAL:

LICENSED PROFESSIONAL ENGINEER
TYLER D. MOBLEY
31813
OKLAHOMA
August 16, 2024

CONSULTANT LOGO:

MOBLEY FIRE PROTECTION

Mobley Fire Protection Engineering, LLC
7219 Yamini Dr.
Dallas, Texas 75230
(817) 614-2361
mobleyfp.com

OK Registered PE Firm 8650

CLIENT:

SEAL OF THE CHEROKEE NATION — ESTABLISHED SEPT. 6, 1839

CHEROKEE NATION

WCCA - REMODEL AND SITE IMPROVEMENTS

395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:

100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58

DATE: 8/16/2024

SHEET NUMBER:

LS0.00

SHEET TITLE:

LIFE SAFETY GENERAL & CODE SUMMARY

OCCUPANT LOAD

USE	AREA (SF)	G/N	FACTOR	OL
ASSEMBLY - UNCONCENTRATED	2,355	NET	15	157
BUSINESS AREAS	1,727	GROSS	150	12
STORAGE (ACCESSORY) & MEP	1,054	GROSS	300	4
TOTAL AREA	**5,136**		**TOTAL OL**	**172**

EGRESS CAPACITY

EXIT	COMPONENT	WIDTH (IN)	FACTOR	CAPACITY
1	DOOR	36	0.20	230
2	DOOR	48	0.20	240
		TOTAL EGRESS CAPACITY		**470**

LIFE SAFETY LEGEND

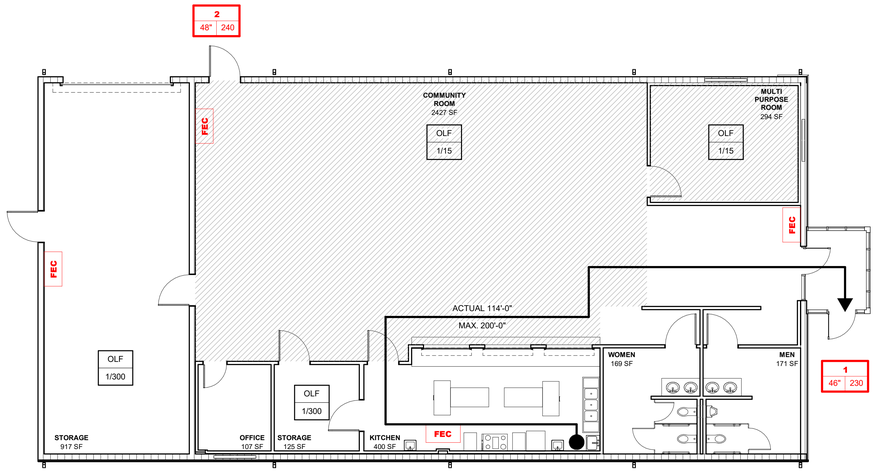
ACTUAL X'-X"
MAX. X'-X"
EXIT ACCESS TRAVEL DISTANCE

NET AREA (OCCUPANT LOAD)

| XX" | XX
EXIT ID (ACTUAL WIDTH & EGRESS CAPACITY)

OLF | 1/X
OCCUPANT LOAD FACTOR

FEC
PORTABLE FIRE EXTINGUISHER CABINET



01 **LIFE SAFETY PLAN - LEVEL 01**
1/8" = 1'-0"

SHEET NOTES

1. ALL AREAS ARE BUSINESS USE AREAS WITH AN OCCUPANT LOAD FACTOR OF 1 OCCUPANT PER 150 SQUARE FEET, UNLESS INDICATED OTHERWISE.
2. REFER TO THE CODE SUMMARY ON SHEET LS.00 FOR FURTHER INFORMATION.

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ESTABLISHED Sept. 6, 1839

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PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **LS0.01**
SHEET TITLE: LIFE SAFETY PLANS

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

DRAWING ABBREVIATIONS

A

AB	ANCHOR BOLT
AD	AREA DRAIN
AC	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
ADD'L	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AGGR	AGGREGATE
AL ALUM	ALUMINUM
ALT	ALTERNATE
ANOD	ANODIZED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL

B

B.M.	BENCH MARK
BD	BOARD
BETW	BETWEEN
BF	BACKFACE
BG	BUMPER GUARD
BL	BED LOCATOR
BL	BUILDING LINE
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BR	BUMPER RAIL
BRG	BEARING
BSMT	BASEMENT
BU ROD	BACK-UP ROD
BUR	BUILT-UP ROOF
BW	BEARING WALL

C

C	COMPACT PARKING SPACE
CC	CUBICK CURTAIN
CDR	CARD READER
CEM	CEMENT
CER	CERAMIC
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJ	CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMM	COMMUNICATIONS
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CPE	CHLORINATED POLYETHYLENE
CQOR	CORRIDOR
CR	COLD ROLLED
CR	CRASH RAIL
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTD	CENTERED
CTR	CENTER
CW	CURTAIN WALL

D

D	DEPTH
DBA	DEFORMED BAR ANCHOR
DET	DETAIL
DF	DECORATIVE FILM
DIA	DIAMETER
DIAPH	DIAPHRAGM
DIM	DIMENSION
DJ	DEFLECTION JOINT
DL	DEAD LOAD
DN	DOWN
DRG	DRAWING
DS	DOWN SPOUT
DWGS	DRAWINGS
DWLS	DOWELS

E

EA	EACH
EF	EACH FACE
EFG	ENTRANCE FLOOR GRILLE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
ELEV	ELEVATOR
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP BLT	EXPANSION BOLT
EXT	EXTERIOR

F

FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FHC	FIRE HOSE CABINET
FIB	FIBERGLASS
FIN	FINISH
FLR	FLOOR
FS	FAR SIDE
FT	FOOT
FT	FLOOR TRANSITION
FTG	FOOTING
FV	FIELD VERIFY
FVC	FIRE VALVE CABINET

G

GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GEN	GENERAL
GFRC	GLASS-FIBER REINFORCED CONCRETE
GI	GALVANIZED IRON
GL	GLASS
GM	GLAZED MASONRY UNIT
GND	GROUND
GR	GRADE
GRG	GLASS-REINFORCED GYPSUM
GYP BD	GYPSUM BOARD

H

HB	HOSE BIB
HDW	HARDWARE
HDWD	HARDWOOD
HK	HOOK
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HS	HEADED STUD
HSKP	HOUSEKEEPING
HT	HEIGHT
HW	HAND WASH
HW	HEAD OF WALL

I

IBC	INTERNATIONAL BUILDING CODE
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR

J

K

K	KIPS (1000 LB)
KO	KNOCK-OUT
KP	KICKPLATE
KPD	KEYPAD
KSF	KIPS PER SQUARE FOOT

L

L	ANGLE
LAV	LAVATORY
LG	LONG
LKB	LOCKABLE
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LOW POINT
LT	LIGHT
LWC	LIGHTWEIGHT CONCRETE

M

MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFG	MANUFACTURER
MGO	MEDICAL GAS OUTLET
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOB	MEDICAL OFFICE BUILDING
MOD BIT	MODIFIED BITUMEN
MOD	MODIFIED
MSL	MEAN SEA LEVEL
MTL	METAL

N

NA	NOT AVAILABLE
NIC	NOT IN CONTRACT
NOA	NOTICE OF ACCEPTANCE
BY	FLORIDA GOVERNING AUTHORITY
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE

O

OA	OVER ALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSF	OUTSIDE FACE

P

P LAM	PLASTIC LAMINATE
PC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PORTLAND CEMENT PLASTER
PENT	PENTHOUSE
PL	PROPERTY LINE
PL	PLATE
PLUMB	PLUMBING
PLYWD	PLYWOOD
PP	PUSH PLATE
POL	POLISHED
PORT CEM	PORTLAND CEMENT
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PT	PNEUMATIC TUBE
PTD	PAINTED

R

R	RISER
RAD	RADIUS
RAF	RUBBERIZED ASPHALT FLASHING
RAM	RUBBERIZED ASPHALT MEMBRANE
RAU	RUBBERIZED ASPHALT UNDERLAYMENT
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCING BAR
RECP	RECEPTACLE
REF	REFER OR REFERENCE
REINF	REINFORCING
RELOC	RELOCATE/RELOCATED
REQ'D	REQUIRED
RFVC	RECESSED FIRE VALVE CABINET
RM	ROOM
RO	ROUGH OPENING

S

SAB	SOUND ATTENUATION BLANKET
SBC	STANDARD BUILDING CODE
SCHED	SCHEDULE
SDL	SUPERIMPOSED DEAD LOAD
SECT	SECTION
S/H	SINGLE HUNG
SHWR	SHOWER
SIM	SIMILAR
SO	STRUCTURAL OPENING
SOG	SLAB ON GRADE
SP	STAND PIPE
SPA	SPACE, SPACING
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSF	SOLID SURFACE
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STIFF	STIFFENER
STIR	STIRRUP
STL	STEEL
STRUC	STRUCTURAL
SYM	SYMMETRICAL
SYS	SYSTEM

T

T	TREAD
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERATURE
THK	THICK
TLT	TOILET
TO	TOP OF
TOB	TOP OF BEAM
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOP	TOP OF PARAPET
TOS	TOP OF SLAB
TOSTL	TOP OF STEEL
TRSH CH	TRASH CHUTE
TW	TOP OF WALL
TYP	TYPICAL

U

U/C	UNDER COUNTER
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE

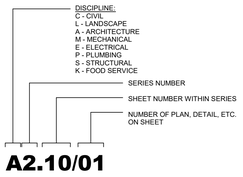
V

VAR	VARIES
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VWC	VINYL WALL COVERING

W

W/	WITH
W/C	WHEEL CHAIR
W/O	WITHOUT
W	WIDTH
WP	WATERPROOF(ING)
WD	WOOD
WF	WIDE FLANGE
WL	WIND LOAD
WP	WORK POINT
WPO	WORK POINT - POINT OF ORIGIN
WP1	WORK POINT - NUMBERED
WWF	WELDED WIRE FABRIC

SHEET NUMBERING SYSTEM



LEGEND

MATERIALS

- CONCRETE/ PRECAST CONCRETE
- SOIL
- SAND, EIFS FINISH COAT, OR CEMENT PLASTER
- BRICK
- CMU
- STONE
- GLASS MINERAL FIBER BATT INSULATION
- GLASS MINERAL FIBER SEMI RIGID INSULATION
- MINERAL WOOL SEMI RIGID INSULATION
- EXPANDED POLYSTYRENE RIGID INSULATION
- EXTRUDED POLYSTYRENE RIGID INSULATION
- POLYISOCYANURATE RIGID INSULATION
- GYPSUM BOARD
- EXTERIOR GYPSUM SHEATHING
- EXTERIOR CEMENT BOARD
- COATED GLASS MAT WATER RESISTANT GYP BD
- PLYWOOD
- COVER BOARD

DRAWING SYMBOLS

- ROOM NAME/NUMBER (ROOM NAME XXXXX)
- EXISTING COLUMN CENTERLINE
- COLUMN CENTERLINE
- DEMOLITION NUMBERED NOTES (1)
- BUILDING WALL SECTION (01 / A0.XX)
- ELEVATION (A0.XX)
- DUMMY SECTION DETAIL (A0.XX)
- SECTION DETAIL (01 / A0.XX)
- PLAN, BLOW-UP DETAIL (01 / A0.XX)
- CEILING HEIGHT (9'-0")
- MEDICAL GAS
- PARTITION TYPE (A3)
- BUILDING EXPANSION JOINT
- CMU WALL
- NEW WALL
- EXISTING WALL
- DEMO WALL

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 RANDALL CHILDERS — 5120 — REGISTERED ARCHITECT — 8/16/2024

CONSULTANT LOGO:

CLIENT:

SEAL OF THE CHEROKEE NATION — Sept. 6, 1839

CHEROKEE NATION

WCCA - REMODEL AND SITE IMPROVEMENTS

395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:

100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58

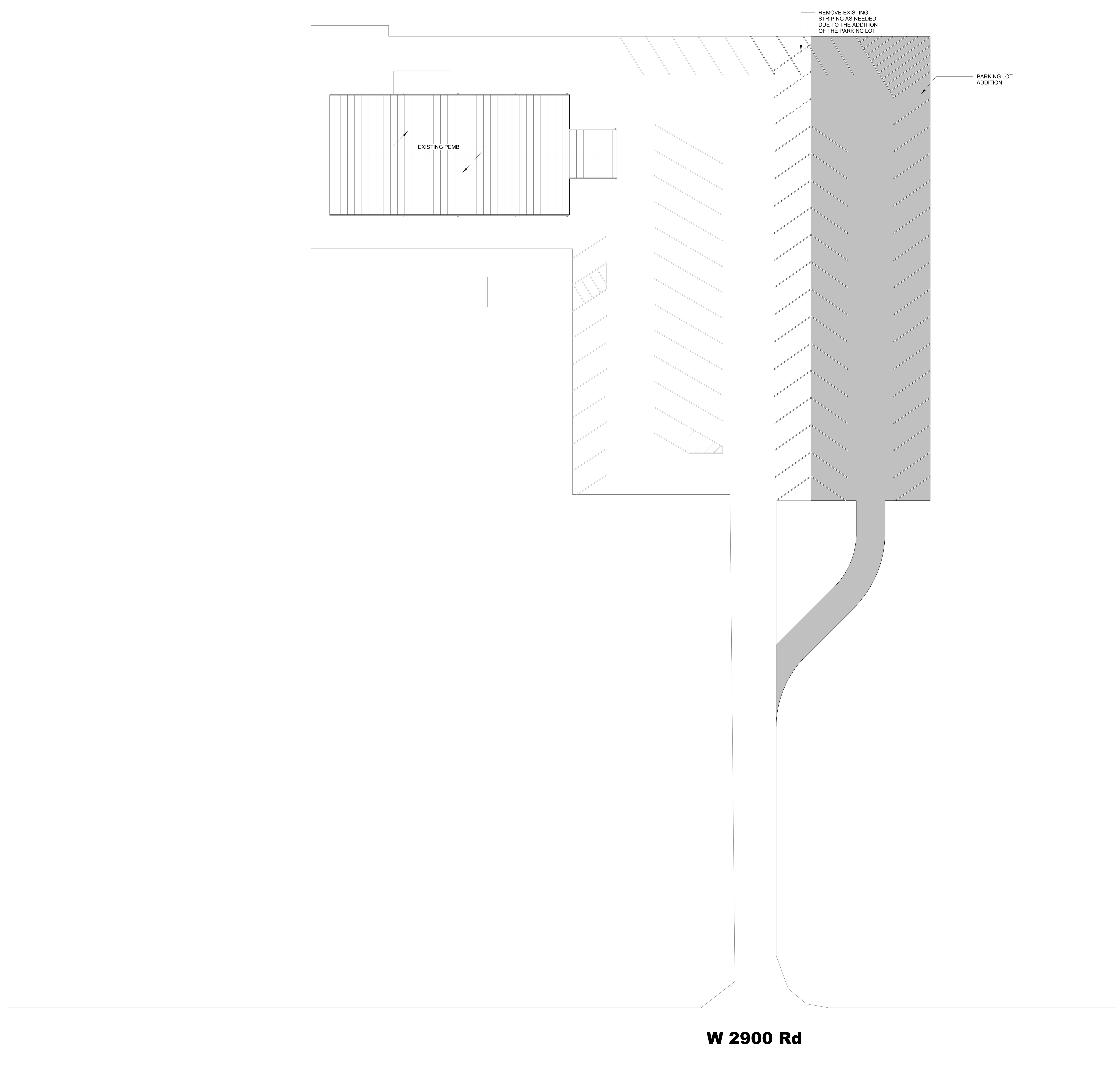
DATE: 8/16/2024

SHEET NUMBER:

A0.01

SHEET TITLE:

PROJECT INFORMATION



01 SITE PLAN
1" = 20'-0"

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

PROFESSIONAL SEAL:

STATE OF OKLAHOMA
J. BRECK CHILDERS
5120
8/16/2024
REGISTERED ARCHITECT

CONSULTANT LOGO:

CLIENT:

SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

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REVISIONS

#	DATE	DESCRIPTION

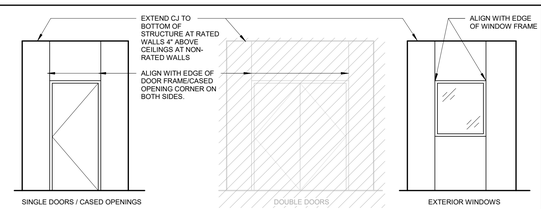
JOB NUMBER:
24-08.58

DATE:
8/16/2024

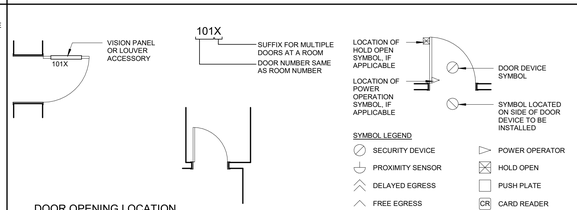
SHEET NUMBER:
AS.00

SHEET TITLE:
SITE PLAN

CONTROL JOINT AT OPENINGS



DOOR PLAN DESIGNATION



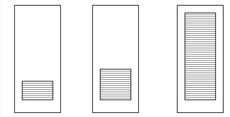
A. DOORS SHOWN ADJACENT TO A FLANKING WALL OR OTHER FIXED OBSTRUCTION, SHALL BE LOCATED AS SHOWN ABOVE.

B. OTHER LOCATIONS SHALL BE ON CENTERLINE OF ROOM OR AS SPECIFICALLY DIMENSIONED.

LOUVERS

DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.

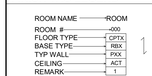


5	6	7
NON-RATED	NON-RATED	NON-RATED

GENERAL NOTES - FLOOR PLAN

A. REFER TO SHEET A5.00 FOR PARTITION TYPES, GRAPHIC AND SYMBOLIC DESIGNATIONS, NOTES, AND DETAILS.
B. REFER TO SHEET A5.00 FOR MISCELLANEOUS METAL FABRICATION (MF) TYPES AND DETAILS.
C. REFER TO SHEET A1.00 FOR DOOR INFORMATION, SCHEDULES AND DETAILS.
D. REFER TO SHEET A1.00 AND A2.00 FOR FINISH INFORMATION AND SCHEDULES.
E. REFER TO SHEET A1.00 FOR LOUVER INFORMATION, SCHEDULES AND DETAILS.
F. REFER TO SHEET A1.00 FOR INTERIOR EXPANSION JOINT DETAILS.
G. REFER TO SHEET A2.00 FOR EXTERIOR ELEVATIONS.
H. ALL EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR FINISH, U.N.O.
I. MASONRY DIMENSIONS ARE NOMINAL, U.N.O.

FINISH TAG LEGEND



REFER TO INTERIOR FINISH LEGEND FOR DEFINITION OF MATERIAL DESIGNATIONS

DOOR HARDWARE

SET #1:
3 HINGES FBB179 4-1/2"X4-1/2" X US26D
1 10 LINE CYLINDRICAL LOCKSET (ENTRANCE/ OFFICE FUNCTION) X US26D
1 WALL STOP
3 SILENCER

SET #2:
3 HINGES FBB179 4-1/2"X4-1/2" X US26D
1 NON-CYLINDER (PASSAGE FUNCTION) X US26D
1 SURFACE MOUNTED CLOSERS
1 WALL STOP
3 SILENCER

SET #3:
3 HINGES FBB179 4-1/2"X4-1/2" X US26D
1 RIM EXIT DEVICE, EXIT ONLY
1 SURFACE CLOSER W/ STOP
1 TRESHOLD
1 GASKETING
1 RAIN GUARD
1 DOOR BOTTOM

SET#4:
HARDWARE BY COILING DOOR SUPPLIER

SET #5:
3 HINGES FBB179 4-1/2"X4-1/2" X US26D
1 RIM EXIT DEVICE
1 SURFACE CLOSER W/ STOP
1 GASKETING

SET#6:
3 HINGES FBB179 4-1/2"X4-1/2" X US26D
1 RIM EXIT DEVICE
1 SURFACE CLOSER W/ STOP
1 TRESHOLD
1 GASKETING
1 RAIN GUARD
1 DOOR BOTTOM

FINISH REMARKS

1. SEE FLOOR PLANS FOR FINISH LOCATIONS.
2. SEE REFLECTED CEILING PLANS FOR FINISH LOCATIONS AND HEIGHTS.

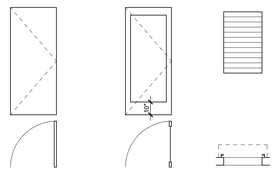
GENERAL FINISH NOTES

A. REFER TO SHEET A1.00 FOR DESIGN SELECTIONS AND FINISH SPECIFICATION INFORMATION. PLEASE NOTE, ALL DESIGN SELECTIONS AND FINISH SPECIFICATIONS ARE SUBJECT TO CHANGE BASED ON FURTHER COORDINATION AND OWNER REVIEW COMMENTS.
B. REFER TO REFLECTED CEILING PLAN ON A9.00 FOR ADDITIONAL CEILING INFORMATION.

DOOR TYPES

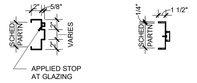
DOOR NOTES

1. CONTRACTORS TO USE THE ARCHITECT'S FLOOR PLAN DESIGNATION DOOR NUMBER IN ADDITION TO THE ROOM NUMBER ON ALL SHOP DRAWING SCHEDULE SUBMITTALS.



A1	C1	P
FLUSH SINGLE	ALUMINUM SINGLE	ABOVE - COUNTER COILING SHUTTER

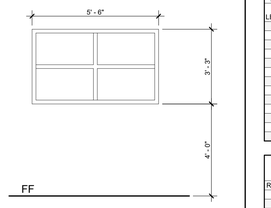
FRAME TYPES



TYPICAL - HOLLOW METAL
1

TYPICAL - ALUMINUM
2

FRAME DIMENSIONS



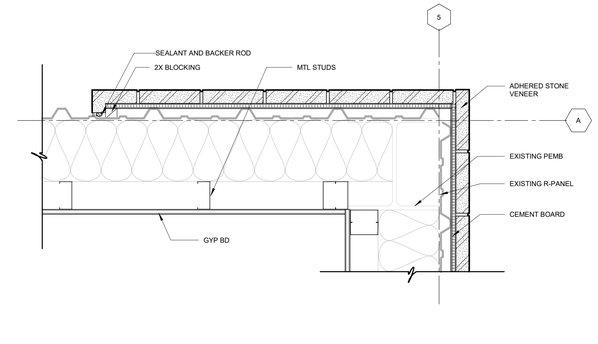
AL FRAME - W1
3/8" = 1'-0"

DOOR SCHEDULE

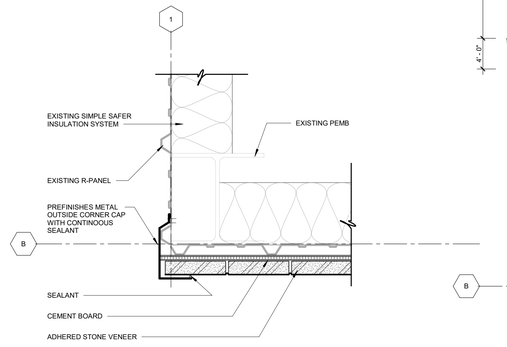
DOOR REVISION	DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	FRAME TYPE	MATERIALS AND FINISHES: DOOR MATERIAL	MATERIALS AND FINISHES: FRAME MATERIAL	VISION PANEL & LOUVER TYPE	CONTROLS: POWER OPERATOR	CONTROLS: HOLD OPEN	CONTROLS: DOOR CONTROL A	CONTROLS: DOOR CONTROL B	FIRE RATING	HARDWARE	COMMENTS
LEVEL 01															
-	100	3' - 8"	7' - 0"	C1	2	AL	AL	-	-	-	-	-	-	6	
-	101	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	2	
-	102	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	2	
-	103A	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	1	
-	103B	6' - 0"	4' - 6"	P	-	STL	STL	-	-	-	-	-	-	4	
-	103C	6' - 0"	4' - 6"	P	-	STL	STL	-	-	-	-	-	-	4	
-	103D	6' - 0"	4' - 6"	P	-	STL	STL	-	-	-	-	-	-	4	
-	104A	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	1	
-	104B	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	2	
-	105	3' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	1	
-	106	4' - 0"	7' - 0"	A1	1	HM	HM	-	-	-	-	-	-	3	
-	107	3' - 6"	7' - 0"	C1	2	AL	AL	-	-	-	-	-	-	5	
-	108	4' - 0"	7' - 0"	A1	1	WD	HM	-	-	-	-	-	-	1	

DESIGN SELECTIONS - INTERIOR

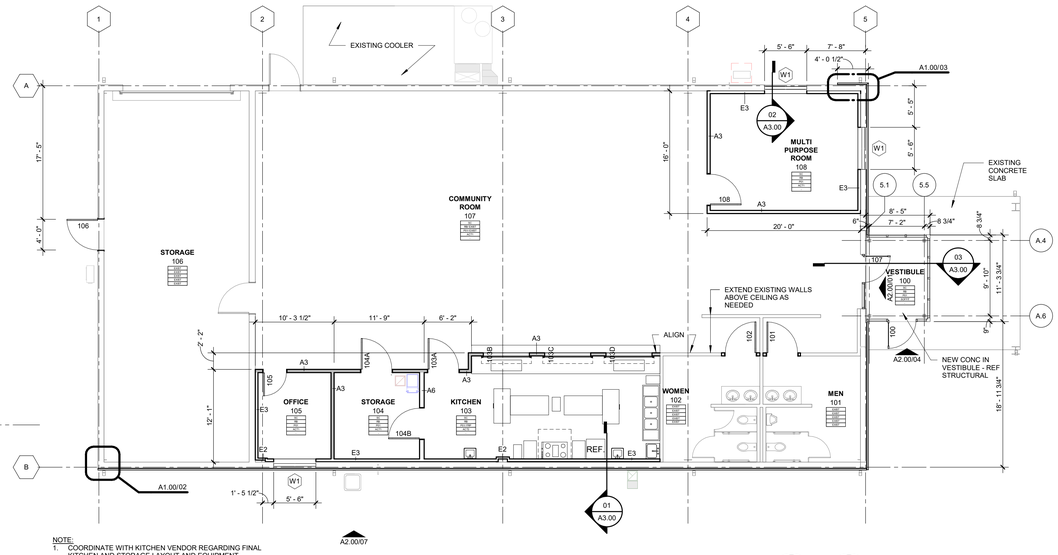
REVISION	FINISH CODE	DESCRIPTION	MANUFACTURER	PRODUCT / PATTERN / STYLE	COLOR	FINISH	SIZE	INSTALLATION METHOD	NOTES
	ACT1	TYP ACT	ARMSTRONG	FINE FISSURED	WHITE	-	24" X 48"	TO BE USED W/ PRELUDE XL 15/16" EXPOSED TEE GRID	
	ACT2	SCRUBBABLE ACT	ARMSTRONG	KITCHEN ZONE	WHITE	-	24" X 48"	TO BE USED W/ PRELUDE XL 15/16" EXPOSED TEE GRID	
	RB	RUBBER BASE	ROPPE	VINYL WALL BASE	100 BLACK	-	6" H	PER MANUFACTURER'S RECOMMENDATIONS	
	SC	SEALED CONCRETE	STONHARD	STONECRETE / AMBER	URBAN SCAPE	STANDARD	-	PER MANUFACTURER'S RECOMMENDATIONS	
	P01	PAINT	SHERWIN WILLIAMS	LATEX/ EPOXY	MATCH EXISTING	EGGSHELL	-	SEE SPECIFICATIONS	FIELD
	P02	PAINT	SHERWIN WILLIAMS	LATEX/ EPOXY	MATCH EXISTING	SEMI-GLOSS	-	SEE SPECIFICATIONS	HOLLOW METAL DOOR
	FRP	HIGH IMPACT WALLCOVERING	INPRO	PALLADIUM RIGID VINYL SHEET	PEBBLE GRAY 0387	-	FULL HEIGHT OF WALL	PER MANUFACTURER'S RECOMMENDATIONS	



03 PLAN DETAIL
1 1/2" = 1'-0"



02 PLAN DETAIL
1 1/2" = 1'-0"



NOTE:
1. COORDINATE WITH KITCHEN VENDOR REGARDING FINAL KITCHEN AND STORAGE LAYOUT AND EQUIPMENT.

01 FLOOR PLAN
1/8" = 1'-0"

PLAN NORTH
TRUE NORTH

James R. Childers Architect, Inc.
45 South 4th Street
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PROFESSIONAL SEAL:

CONSULTANT LOGO:

CLIENT:

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

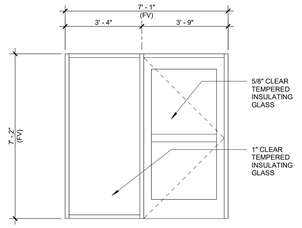
KEY PLAN:

PROJECT PHASE:
100% CD's

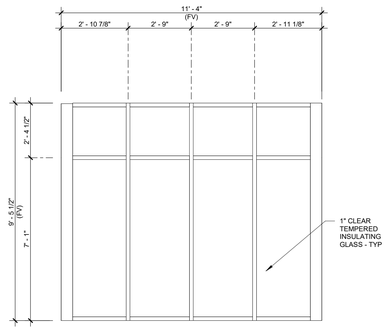
REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **A1.00**
SHEET TITLE: FLOOR PLAN

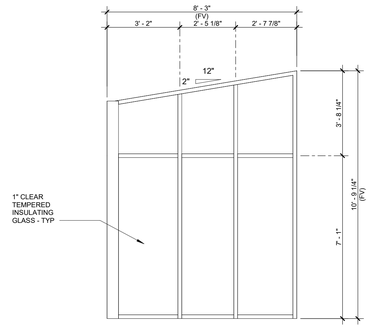
DESIGN SELECTIONS - EXTERIOR								
FINISH CODE	DESCRIPTION	MANUFACTURER	PRODUCT / PATTERN / STYLE	COLOR	FINISH	SIZE	INSTALLATION METHOD	NOTES
MR01	STANDING SEAM METAL ROOF	-	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	PER MANUFACTURERS STANDARDS	
AMV01	ADHERED MASONRY VENEER	IMPRESSIONS IN STONE	COBBLESTONE (NOT DRY STACKED) WITH RAKED GROUT	MERLOT; GROUT TO BE STANDARD GRAY	-	VARIES	PER MANUFACTURERS STANDARDS	



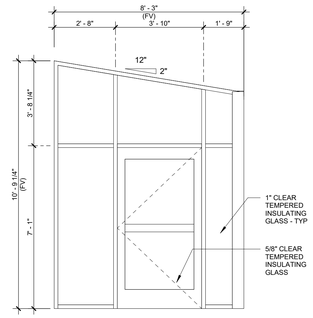
01 STOREFRONT ELEVATION
3/8" = 1'-0"



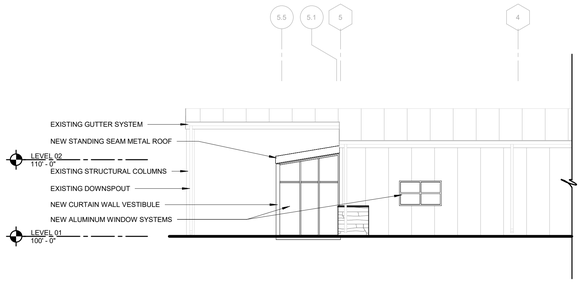
02 STOREFRONT ELEVATION
3/8" = 1'-0"



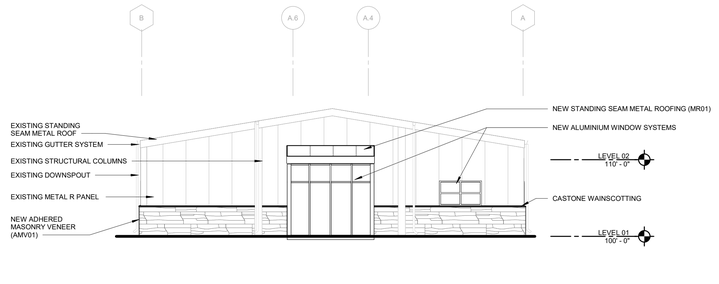
03 STOREFRONT ELEVATION
3/8" = 1'-0"



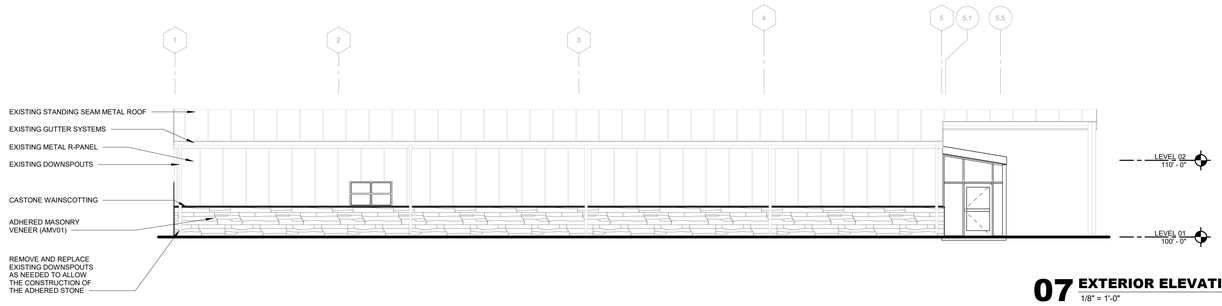
04 STOREFRONT ELEVATION
3/8" = 1'-0"



05 EXTERIOR ELEVATION
1/8" = 1'-0"



06 EXTERIOR ELEVATION
1/8" = 1'-0"



07 EXTERIOR ELEVATION
1/8" = 1'-0"

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45 South 4th Street
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PROFESSIONAL SEAL:

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KEY PLAN:

PROJECT PHASE:
100% CD's

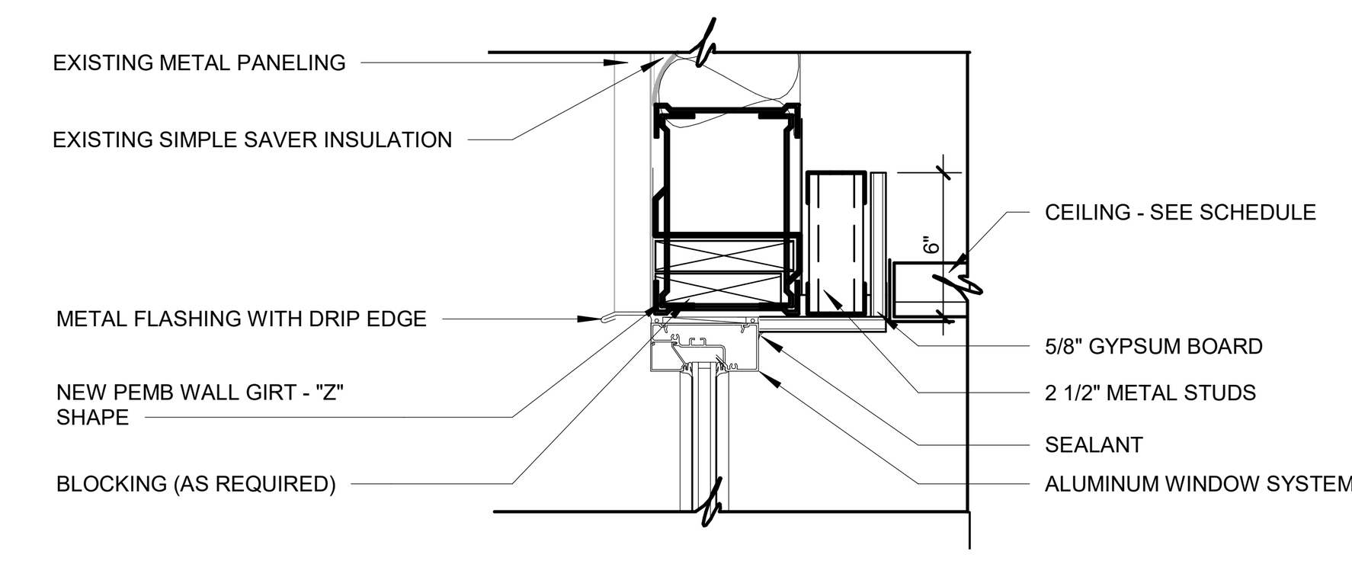
REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58

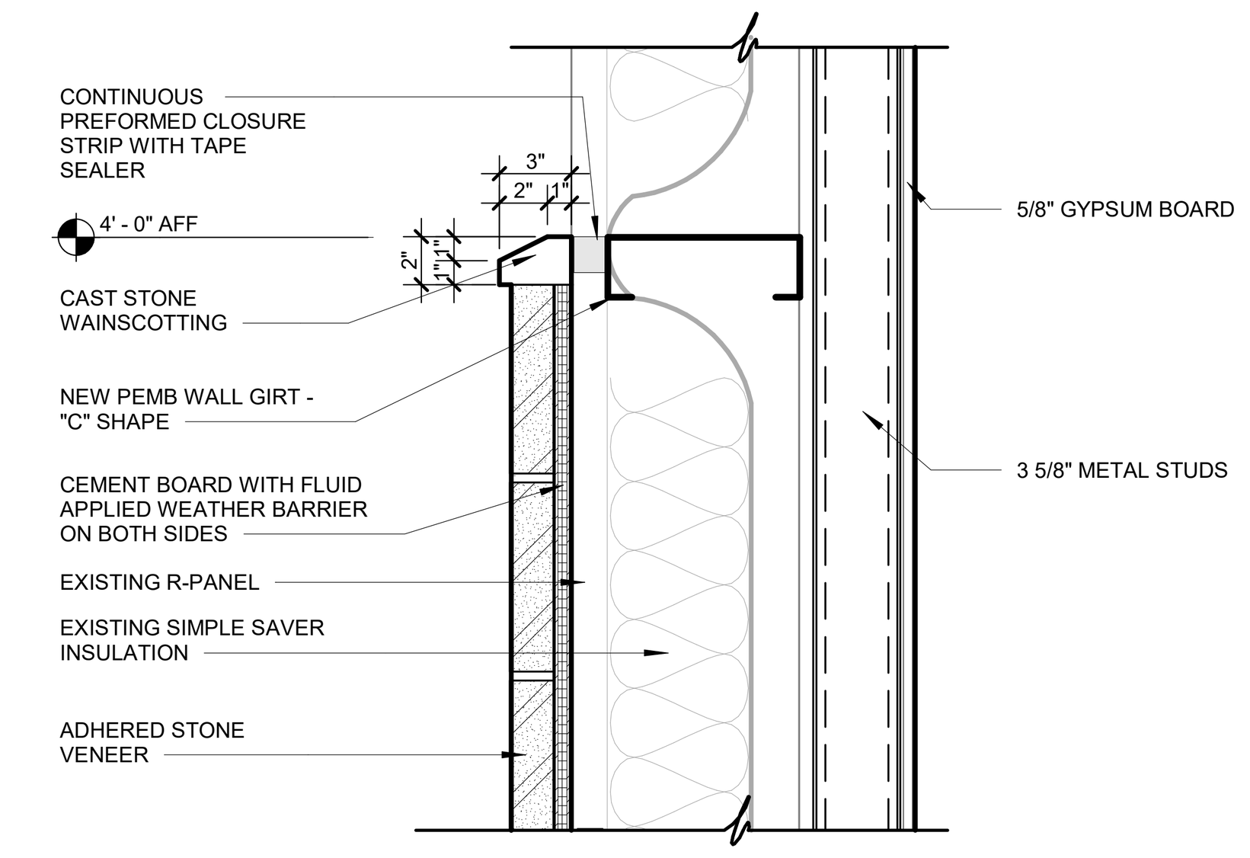
DATE: 8/16/2024

SHEET NUMBER: **A2.00**

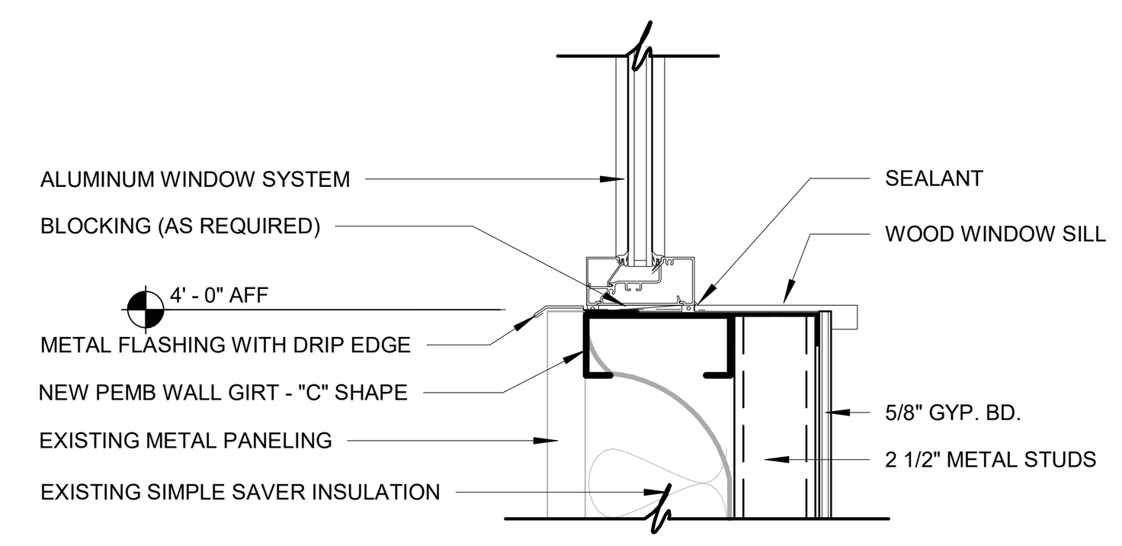
SHEET TITLE: EXTERIOR ELEVATIONS



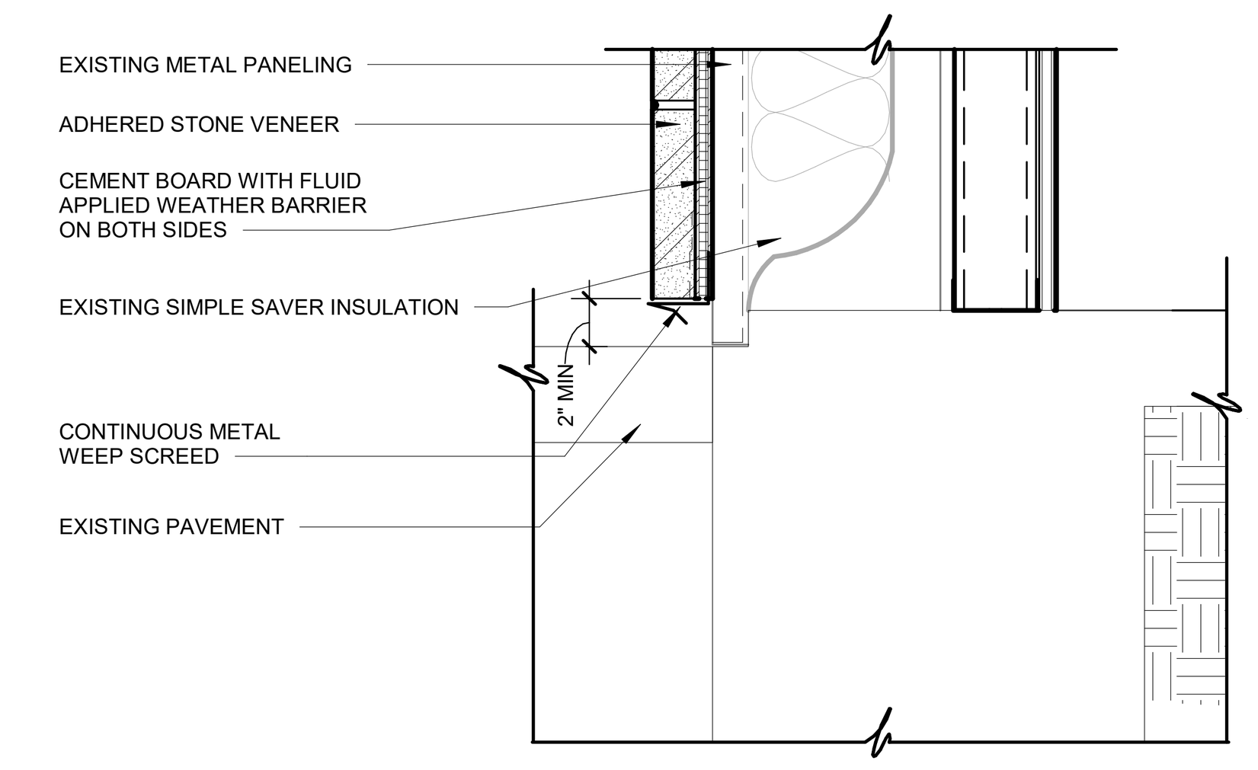
08 WALL SECTION DETAIL
1 1/2" = 1'-0"



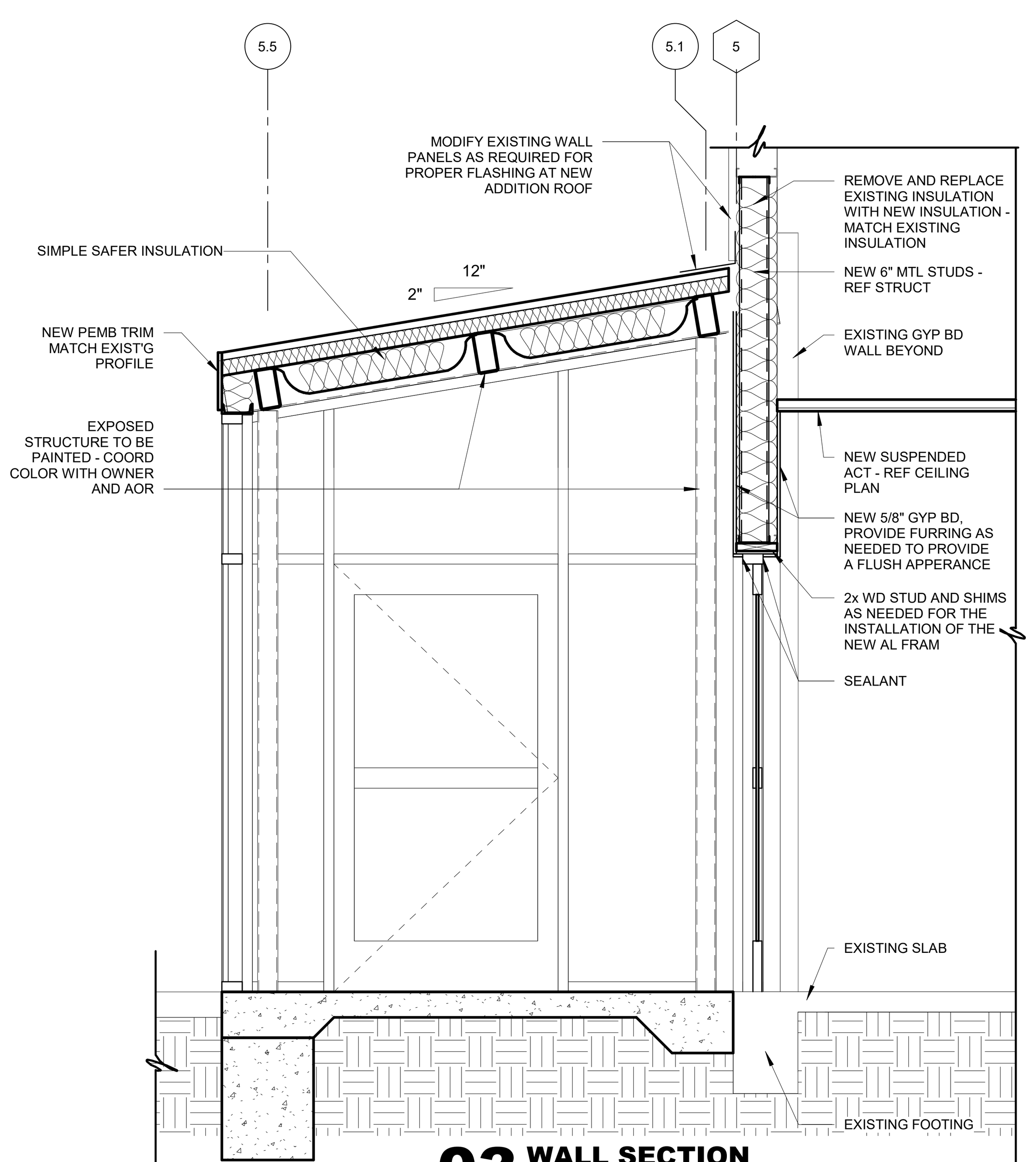
07 WALL SECTION DETAIL
1 1/2" = 1'-0"



05 WALL SECTION DETAIL
1 1/2" = 1'-0"



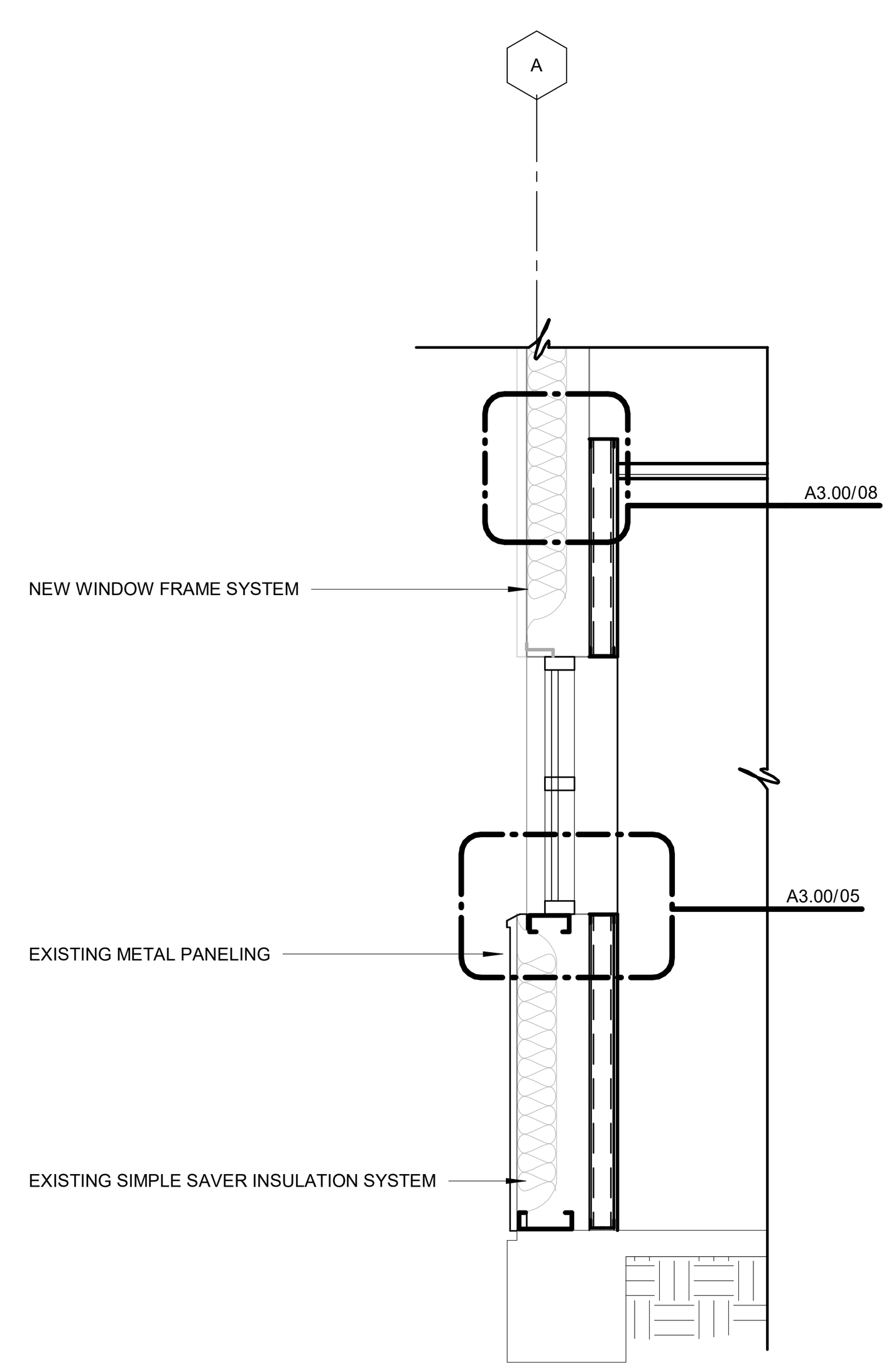
04 WALL SECTION DETAIL
1 1/2" = 1'-0"



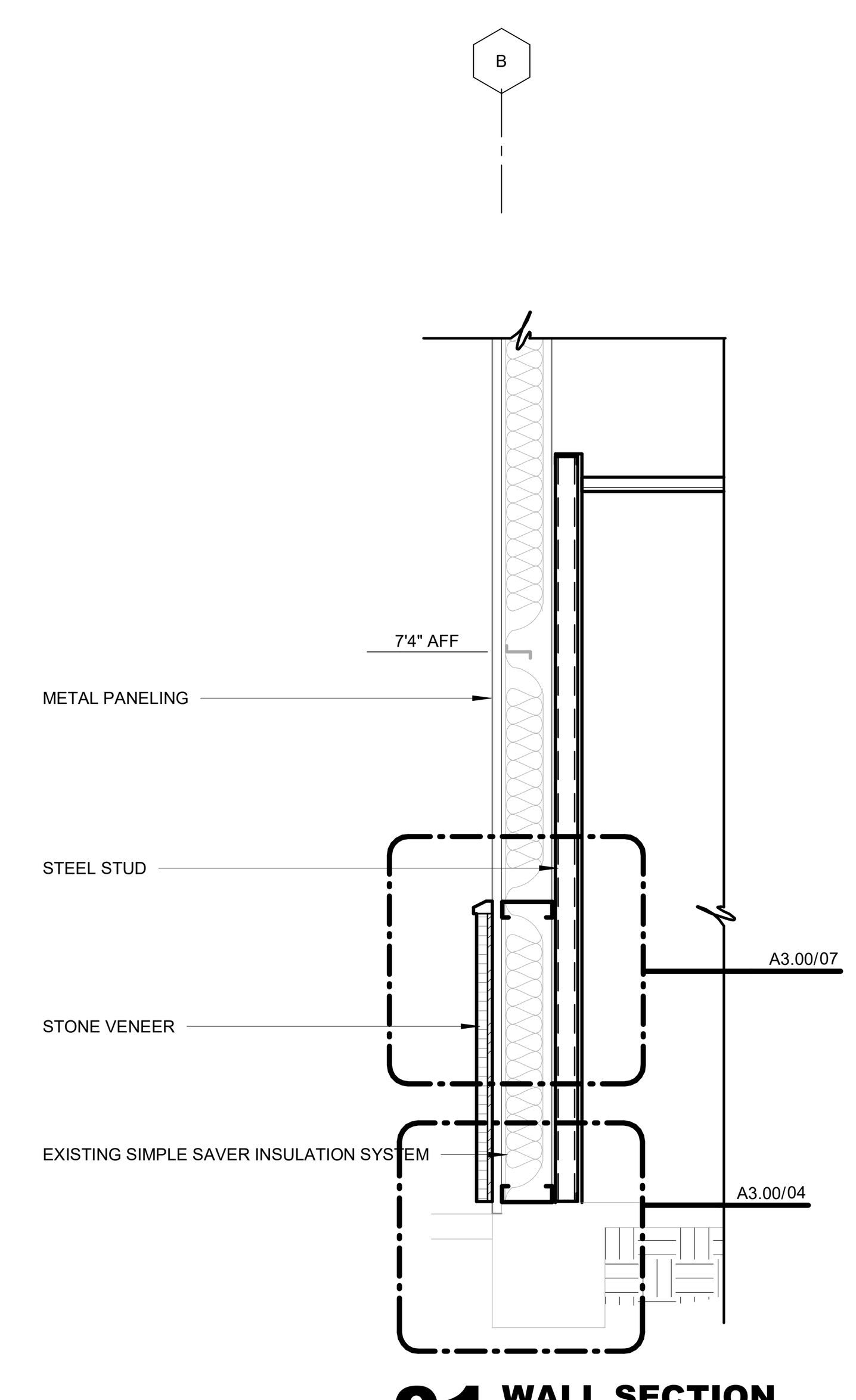
03 WALL SECTION
1/2" = 1'-0"

NOTE:

1. REF STRUCT FOR INFORMATION REGARDIND SLAB, FOOTING OR FOUNDATION.



02 WALL SECTION
1/2" = 1'-0"



01 WALL SECTION
1/2" = 1'-0"

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

PROFESSIONAL SEAL:

STATE OF OKLAHOMA
J. BRECK
5120
8/16/2024
REGISTERED ARCHITECT

CONSULTANT LOGO:

CLIENT:

SEAL OF THE CHEROKEE NATION
SEPT. 6, 1839

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER:
24-08.58
DATE:
8/16/2024
SHEET NUMBER:
A3.00
SHEET TITLE:
WALL SECTIONS AND DETAILS

GENERAL NOTES - ROOF PLAN

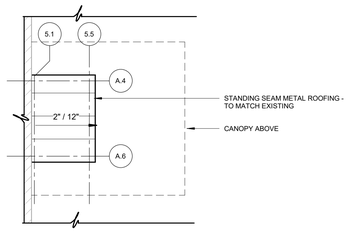
A. ROOF TYPES ARE AS FOLLOWS: ROOF TYPE 1.
B. ALL ROOFING SURFACES TO SLOPE 2" VERTICAL PER 1' - 0" HORIZONTAL MINIMUM, UNLESS NOTED OTHERWISE.
C. HATCHING INDICATES EXISTING STRUCTURE OR N/C.
D. TOP OF INSULATION HEIGHTS, HIGH POINTS AND LOW POINTS, ARE INDICATED AS THE TOP OF ROOF SURFACE ABOVE THE ROOF DRAIN(S). (I.E. + 3.5" WHERE HIGH POINT OF ROOF DRAIN SUMP IS +0").
E. REFER TO SHEET A5.00 FOR TYPICAL ROOF DETAILS.
F. ALL ROOF TOP MECHANICAL, ELECTRICAL AND/OR PLUMBING EQUIPMENT SHOWN FOR INFORMATION ONLY.
G. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DOCUMENTS AND SPECIFICATIONS FOR SPECIFIC DESIGN INFORMATION.
H. PROVIDE WALKWAY PROTECTION TO MAJOR MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT AS REQUIRED TO PROVIDE SERVICE ACCESS.
I. WALKWAY PROTECTION IS INDICATED AS A GENERAL LAYOUT AND MAY NOT SHOW ALL FINAL LOCATIONS OF ALL EQUIPMENT.
J. EXISTING ROOFS TO REMAIN, UNLESS NOTED OTHERWISE.
K. REFERENCE DEMOLITION PLANS, SECTIONS, PATCH AND REPAIR EXISTING ROOFS DAMAGED DURING CONSTRUCTION.
L.

GENERAL NOTES - REFLECTED CEILING PLAN

A. ALL CEILINGS SHALL BE 9' - 0" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. (COORDINATE WITH OWNER-FURNISHED VENDOR DRAWINGS AND EQUIPMENT.
B. IN THE CASE OF MINOR DISCREPANCIES BETWEEN MEP AND 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.
C. REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OF INDICATED.
D. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, STROBES AND MISCELLANEOUS DEVICES SHALL BE CENTERED IN THE CEILING TILE IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
E. ACCESS DOOR LOCATIONS IN GYPSUM BOARD CEILINGS ARE INDICATED ON RCP'S ONLY WHERE ARCHITECTURALLY SIGNIFICANT. REFERENCE SPECIFICATIONS AND MEP DRAWINGS FOR OTHER ACCESS DOOR LOCATIONS
F. EXIT SIGNS ARE SHOWN ON REFLECTED CEILING PLAN ONLY WHERE LOCATION IS ARCHITECTURAL SIGNIFICANT.
G. DIMENSIONS AT CUBICLE CURTAIN TRACKS ARE TO CENTER OF TRACK, TYP.
H. REFERENCE A9.00 FOR CEILING SYMBOL LEGEND.
I. REFERENCE A1.00 FOR CONTROL JOINT DETAILS.

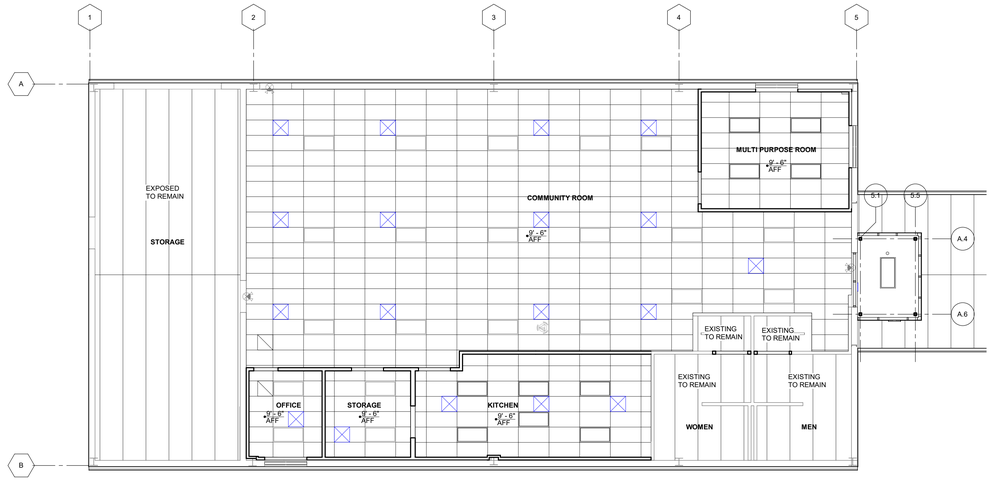
CEILING SYMBOL LEGEND

- GYPSUM BOARD CEILING
- GYPSUM BOARD CEILING
- SUPPLY AIR
- RETURN AIR
- EXHAUST AIR
- ACCESS PANEL
- LED LIGHT
- SUSPENDED LIGHT
- SUSPENDED LED LIGHT
- WALL MOUNTED FIXTURE
- CHANDELIER
- CONTROL JOINTS
- EXIT SIGN - HATCH INDICATES EXIT TEXT & ARROW INDICATES DIRECTION
- SD — SMOKE DETECTOR
- FA — FIRE ALARM / STROBE
- S — SPEAKER
- PROJECTOR
- WALL WASHER
- PENDANT TYPE LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- DOWNLIGHT
- STRIP LIGHT



PLAN NORTH / TRUE NORTH

02 ROOF PLAN
1/8" = 1'-0"



PLAN NORTH / TRUE NORTH

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

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KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **A9.00**
SHEET TITLE: ROOF AND CEILING PLAN

DESIGN PARAMETERS

1. DESIGN CODES AND STANDARDS

A. BUILDING CODE: IBC 2018
RISK CATEGORY — II

B. MATERIAL CODES AND STANDARDS
DESIGN LOADS:
ASCE/SEI 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
CONCRETE:
ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
STEEL:
AISC 360-16 - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS
AISC 341-16 - SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS

2. GRAVITY LOADS
A. LIVE LOADS (UNIFORM/CONCENTRATED)
ROOF — 20 PSF / 300 LB

3. ROOF SNOW LOAD
A. GROUND SNOW LOAD, Pg — 10 PSF
B. FLAT ROOF SNOW LOAD, Pf — 7 PSF
C. SNOW EXPOSURE FACTOR, Ce — 1.0
D. SNOW LOAD IMPORTANCE FACTOR, I — 1.0
E. THERMAL FACTOR, Ct — 1.0

4. WIND DESIGN DATA
A. ULTIMATE DESIGN WIND SPEED (3 SECOND GUST), Vult — 108 MPH
NOMINAL DESIGN WIND SPEED (3 SECOND GUST), Vasd — 84 MPH
B. WIND EXPOSURE CATEGORY — C
C. INTERNAL PRESSURE COEFFICIENT, GCpi — +/- 0.18
D. DESIGN WIND PRESSURE ON COMPONENTS AND CLADDING

ROOF PRESSURES (1.0W)		
	EFFECTIVE WIND AREA	
	≤10 SQ. FT.	≥50 SQ. FT.
ZONE 1	-45.4 PSF	-27.6 PSF
ZONE 2e	-45.4 PSF	-27.6 PSF
ZONE 2n, 2r	-66.2 PSF	-45.4 PSF
ZONE 3e, 3r	-78.7 PSF	-52.5 PSF
ZONE 1, 2 & 3	16 PSF	16 PSF

WALL PRESSURES (1.0W)		
	EFFECTIVE WIND AREA	
	≤10 SQ. FT.	≥50 SQ. FT.
ZONE 4	-26.2 PSF	-24.1 PSF
ZONE 5	-32.9 PSF	-27.8 PSF
ZONE 4 & 5	24.6 PSF	22.0 PSF

NOTES:
1. RE: ASCE 7-16 FIGURES 30.3-1 AND 30.3-2E
2. REFER TO CODE FOR EFFECTIVE TRIBUTARY AREAS NOT LISTED
3. POSITIVE VALUES SIGNIFY PRESSURES ACTING TOWARD THE NOTED SURFACE AND NEGATIVE VALUES SIGNIFY PRESSURES ACTING AWAY FOR THE NOTED SURFACE

E. WIDTH OF END ZONE — 3.0 FT

5. EARTHQUAKE DESIGN DATA
A. SEISMIC IMPORTANCE FACTOR, Ie — 1.0
B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, Ss — 12.9%
C. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETER, S1 — 7.5%
D. SITE CLASS — D
E. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sds — 0.138
F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETER, Sd1 — 0.121
G. SEISMIC DESIGN CATEGORY — B
H. STRUCTURAL SYSTEM — --
1.) VERTICAL ELEMENT TYPE — BEARING WALL SYSTEM
2.) BASIC SEISMIC FORCE-RESISTING SYSTEM TYPE — STRUCTURAL STEEL SYSTEMS NOT SPECIFCALLY DETAILED FOR SEISMIC RESISTANCE
3.) RESPONSE MODIFICATION FACTOR, R — 2
4.) SEISMIC RESPONSE COEFFICIENT, Cs — 0.069
5.) DESIGN BASE SHEAR, 1.0E — 0.069W
J. ANALYSIS PROCEDURE — EQUIVALENT LATERAL FORCE

GENERAL NOTES

GENERAL

1. STRUCTURAL ELEMENTS ARE NON-SELF SUPPORTING AND REQUIRE INTERACTION WITH OTHER ELEMENTS FOR STABILITY AND RESISTANCE TO LATERAL FORCES. FRAMING AND WALLS SHALL BE TEMPORARILY BRACED BY THE CONTRACTOR UNTIL PERMANENT BRACING, FLOOR AND ROOF DECKS, AND WALLS HAVE BEEN INSTALLED AND CONNECTIONS BETWEEN THESE ELEMENTS HAVE BEEN MADE.
2. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION, UNLESS NOTED OTHERWISE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
3. THE STRUCTURE HAS BEEN DESIGNED FOR THE INDICATED LOADS ONLY. USE OF HEAVY EQUIPMENT AND SCAFFOLDING, OR STORAGE OF MATERIALS THAT TRANSFER EXCESSIVE LOADS TO THE STRUCTURE SHALL BE VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE CALCULATIONS SIGN AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED TO VERIFY THE ADEQUACY OF THE STRUCTURE FOR ALL APPLIED CONSTRUCTION LOADS THAT EXCEED THE LOADS INDICATED IN THE CONSTRUCTION DOCUMENTS AND SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER-OF-RECORD PRIOR TO ANY CONSTRUCTION ACTIVITY.
4. THE SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND SHALL BE USED IN CONJUCTION WITH THE CONTRACT DRAWINGS. WHERE REQUIREMENTS INDICATED ON THE CONTRACT DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT AND THE ENGINEER-OF-RECORD.
5. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
6. ALL WELDS SHALL BE PERFORMED BY QUALIFIED WELDERS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (A.W.S) SPECIFICATIONS.
7. THE SIZE AND LOCATION OF EQUIPMENT PADS AND PENETRATIONS THROUGH THE STRUCTURE FOR MECHANICAL, ELECTRICAL, AND PLUMBING WORK SHALL BE VERIFIED BY THE CONTRACTOR. PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT AND THE ENGINEER-OF-RECORD. REFERENCE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR OPENING LOCATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
8. USE ONLY DIMENSIONS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT SCALE CONTRACT DOCUMENTS OR USE ANY DIMENSIONS TAKEN FROM ELECTRONIC DRAWING FILES. CONTRACTOR SHALL COORDINATE IN-PLACE DIMENSIONS BASED ON TOLERANCES OF THE RESPECTIVE TRADES.
9. ASSUME EQUAL SPACING IF NOT INDICATED IN CONTRACT DOCUMENTS.
10. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST SEISMIC FORCES AS DETERMINED IN CHAPTER 13 OF ASCE 7.
11. REFERENCE ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING PARTITION FRAMING. CONNECTION OF NON-LOAD BEARING PARTITION FRAMING TO THE PRIMARY STRUCTURE SHALL ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF THE FLOOR AND ROOF FRAMING.
12. CONTRACTOR SHALL COORDINATE ALL DIMENSIONS, OPENING, BLOCKOUTS, RECESSES, ELEVATIONS, ANCHOR RODS AND EMBED LOCATIONS PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE TEMPORARY SUPPORT AND STABILITY OF EXISTING STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
14. DIMENSIONS AND DETAILS OF THE EXISTING STRUCTURE ARE BASED UPON DOCUMENTS PROVIDED BY THE OWNER [AND/OR A PRELIMINARY FIELD SURVEY]. PRIOR TO FABRICATION, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT TO THE ARCHITECT AND THE ENGINEER-OF-RECORD ANY VARIATIONS FROM THE DATA SHOWN HEREIN FOR POSSIBLE REDESIGN.
15. BEFORE OR CONCURRENT WITH EXCAVATIONS FOR THE FOUNDATIONS ADJACENT TO THE EXISTING BUILDING, PROVIDE ADEQUATE SUPPORT TO THE EXISTING SUBBASE OF THE EXISTING SLAB AND THE FOUNDATIONS TO PREVENT UNDERMINING.
16. DURING WELDING OR ANY OTHER CONSTRUCTION ACTIVITY THAT GENERATES SPARKS OR INTENSE HEAT, THE CONTRACTOR SHALL PROVIDE ADEQUATE FIRE PROTECTION TO THE EXISTING STRUCTURE AND CONTENTS.

GENERAL NOTES

FOUNDATIONS

1. FOOTING DESIGNS ARE BASED ON AN ASSSUMED STABLE, NON-EXPANSIVE SOIL WITH AN ALLOWING BEARING PRESSURE OF 1,500 PSF. THE CONTRACTOR SHALL HIRE A REGISTERED GEOTECHNICAL ENGINEER LICENSED IN THE STATE THE PROJECT IS LOCATED TO DETERMINE WHETHER OR NOT THE SOIL MEETS THE MINIMUM CRITERIA.
2. THE SOILS SUPPORTING THE FOUNDATION AND SLAB SHALL BE PREPARED AND COMPACTED IN ACCORDANCE WITH THE RECOMMENDATIONS FROM THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHALL VERIFY CONFORMANCE OF EXCAVATION, SCARIFYING, PROOF-ROLLING, FILL CLASSIFICATION, MAXIMUM PARTICLE SIZE, LIQUID LIMIT, PLASTICITY INDEX AND PLACEMENT PROCEDURES.
3. THE BEARING MATERIALS SHALL BE FREE OF ORGANIC, EXPANSIVE, OR CORROSIVE MATERIAL AND SHALL SUPPORT THE FOUNDATION IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
A. MAXIMUM DIFFERENTIAL SETTLEMENT SHALL NOT EXCEED ½" OVER A DISTANCE OF 50 FEET
B. MAXIMUM TOTAL MOVEMENT DUE TO EITHER SETTLEMENT OR HEAVE SHALL NOT EXCEED 1"
4. IF THE CRITERIA CANNOT BE MET, THE ENGINEER OF RECORD SHALL BE NOTIFIED SO THAT THE FOUNDATION MAY BE REDESIGNED ACCORDIINGLY.
5. EXTERIOR FOOTINGS SHALL BEAR AT OR BELOW MINIMUM BEARING DEPTH. MINIMUM BEARING DEPTH IS 2 FEET BELOW THE LOWEST ADJACEENT GRADE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT QUANTITIES OF CUT AND FILL FOR ESTIMATING AND CONSTRUCTION.
7. FOUNDATION WALLS SHALL HAVE ADEQUATE TEMPORARY BRACING INSTALLED BY THE CONTRACTOR BEFORE BACKFILL IS PLACED AGAINST THEM. TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL WALL IS PERMANENTLY BRACED.
8. AVOID DAMAGE TO UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO, WATER MAINS, SANITARY SEWERS AND BURIED CABLES WHICH MIGHT EXTEND ACROSS OR ADJOIN SITE.

CONCRETE

1. MINIMUM COMPRESSIVE STRENGTH (f'c) AT THE END OF 28 DAYS SHALL BE AS FOLLOWS:

A. FOOTINGS — 3000 PSI
B. FOUNDATION WALLS AND PEDESTALS — 3000 PSI
C. INTERIOR SLABS-ON-GRADE (NON-AIR ENTRAINED) — 3000 PSI
F. EXTERIOR STRUCTURAL CONCRETE (AIR ENTRAINED) — 4500 PSI

REFERENCE SPECIFICATIONS FOR MAXIMUM WATER/CEMENT RATIOS, MINIMUM CEMENT CONTENTS AND OTHER MIX DESIGN REQUIREMENTS. CONCRETE SHALL BE NORMAL WEIGHT (145 PCF), UNLESS NOTED OTHERWISE.

2. CONCRETE SHALL HAVE A MAXIMUM W/CM RATIO OF 0.45 AND 0.58, FOR 4500 PSI AND 3000 PSI CONCRETE, RESPECTIVELY.
3. NEITHER MATERIALS NOR ADMIXTURES SHALL CONTAIN ANY CALCIUM CHLORIDE.
4. SLUMP OF CONCRETE SHALL NOT EXCEED 4" UNLESS A HIGH RANGE WATER-REDUCING ADMIXTURE IS USED. THE SLUMP OF CONCRETE PRIOR TO ADDITION OF A HIGH RANGE WATER-REDUCING ADMIXTURE SHALL NOT EXCEED 4". THE SLUMP OF CONCRETE CONTAINING A HIGH RANGE WATER REDUCING ADMIXTURE SHALL NOT EXCEED 8".
5. CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED. AIR CONTENT SHALL BE BETWEEN 4 AND 6 PERCENT.
6. COARSE AGGREGATE SIZE SHALL BE NO. 57 OR LARGER.
7. FLY ASH MAY BE USED IN CEMENT MIXTURES WITH A MAXIMUM FLYASH CONTENT EQUAL TO 20 PERCENT OF CEMENT CONTENT BY WEIGHT.
8. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR REVIEW BY THE PROJECT MANAGER WELL IN ADVANCE OF CONCRETE PLACEMENT. CONCRETE MIX DESIGN SHALL INCLUDE ALL STRENGTH DATA NECESSARY TO SHOW COMPLIANCE WITH THE PROJECT SPECIFICATIONS FOR EITHER THE TRIAL BATCH OR FIELD EXPERIENCE METHOD, IN ACCORDANCE WITH ACI 301 (LAST EDITION).
9. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES AND MECHANICAL DAMAGE. CURE IN ACCORDANCE WITH ACI 308.
10. ALL EMBEDDED ITEMS IN CONCRETE SHALL BE INSPECTED.
11. REFERENCES:
ACI 211.1, RECOMMENDED PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL AND HEAVYWEIGHT CONCRETE
ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI 302, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
ACI 304, RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE
ACI 305, HOT WEATHER CONCRETING
ACI 306, COLD WEATHER CONCRETING
ACI 308, PRACTICE FOR CURING CONCRETE
ACI 309, CONSOLIDATION OF CONCRETE
ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE SP15, FIELD REFERENCE MANUAL, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS WITH SELECTED ACI AND ASTM REFERENCES
12. REINFORCING STEEL SHALL MEET THE FOLLOWING:

	ASTM SPECIFICATION
A. DEFORMED BARS	A615, GRADE 60
B. WELDABLE DEFORMED BARS	A706, GRADE 60
C. WELDED WIRE REINFORCEMENT	A185
D. STEEL FIBERS	A820

13. WHERE DOWELS ARE INDICATED BUT NOT SIZED, PROVIDE DOWELS THAT MATCH SIZE AND LOCATION OF MAIN REINFORCING STEEL AND LAP SPLICE WITH THE MAIN REINFORCING STEEL. REINFORCING BARS SHALL BE SPLICED AS NOTED IN THE REINFORCING LAP SCHEDULE.
14. REFER TO ACI 318 LATEST EDITION FOR CONCRETE COVER, ACI 315 LATEST EDITION FOR DETAILING PRACTICES AND FABRICATION, AND ACI 301 LATEST EDITION FOR STANDARD PRACTICE FOR MIXING AND PLACING CONCRETE.
15. "C.J." INDICATES SAW CUT CONTRACTION JOINT, "CONST. JT." INDICATES DOWELED CONSTRUCTION JOINT IN SLAB-ON-GRADE. REFERENCE SPECIFICATIONS FOR ACCEPTED SAW CUT METHODS. SLAB POURS SHALL BE SEPARATED BY A DOWELED CONSTRUCTION JOINT. CONTRACTION/CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON PLANS OR AS DIRECTED BY THE STRUCTURAL ENGINEER.
16. PROVIDE CORNER BARS THAT MATCH CONTINUOUS REINFORCEMENT SIZE AND QUANTITY AT INTERSECTIONS AND CORNERS OF WALLS AND FOUNDATIONS.
17. PROVIDE #3 Z-BAR SPACERS AT 24 INCHES ON CENTER EACH WAY FOR CONCRETE WALLS HAVING REINFORCING STEEL IN BOTH FACES.
18. ANCHORS INSTALLED IN HARDENED CONCRETE SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. ANCHORS MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND APPLICABLE ESR REPORT. USE HILTI HIT RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM. REFERENCE DETAILS FOR ANCHOR SIZE AND EMBEDMENT. SUBSTITUTIONS TO THE SPECIFIED ANCHORS MUST HAVE AN APPLICABLE ESR REPORT AND BE APPROVED BY ENGINEER OF RECORD.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRESS (Fy):

	YIELD	ASTM SPECIFICATION
A. W, WT SHAPES:	50 KSI	A992
B. BARS, PLATES, CHANNELS, ANGLES:	36 KSI	A36
C. SQUARE, RECTANGULAR HSS:	50 KSI	A500, GRADE C
D. ROUND HSS:	46 KSI	A500, GRADE C
E. STRUCTURAL STEEL PIPE:	35 KSI	A53, GRADE B
F. ANCHOR RODS:	36 KSI [55KSI, 105 KSI], WELDABLE	F1554
G. ALL-THREAD RODS:	36 KSI	A36
H. HEADED STUD ANCHORS:	65 KSI TENSILE STRESS	A108, GRADES 1010-1020

2. BOLTS FOR STEEL BEAM AND COLUMN CONNECTIONS SHALL BE 3/4-INCH DIAMETER (MIN.) ASTM F3125, GRADE A325-N [A490-N] HIGH-STRENGTH BOLTS UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS.
3. ALL BOLTED JOINTS SHALL BE SNUG TIGHT UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS . FOR PRETENSIONED OR SLIP-CRITICAL JOINTS, THE METHOD OF INSTALLATION SHALL BE TURN-OF-NUT WITH MATCH MARKING, TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES (ASTM F3125, GRADE F1852), OR DIRECT TENSION INDICATORS (ASTM F959).
4. WELDING SHALL MEET ANSI / AWS D1.1, STRUCTURAL WELDING CODE LATEST REVISION. ELECTRODES SHALL BE 70 KSI, LOW HYDROGEN.
5. WELDS NOT SPECIFICALLY SIZED ON THE STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE PER THE LATEST AWS D1.1.
6. PROVIDE DOUBLE NUTS AND DOUBLE WASHERS FOR STEEL COLUMN ANCHOR BOLTS TO ALLOW FOR ADJUSTMENT IN BASE PLATE ELEVATION. PROVIDE 1 1/2 INCH NON-SHRINK GROUT UNDER BASE PLATE AFTER ERECTION. USE 2 1/2 INCH NON-SHRINK GROUT WHEN COLUMN ANCHOR BOLTS ARE 1 1/4 INCH DIAMETER OR LARGER. NON-SHRINK GROUT SHALL BE NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
7. LEDGER ANGLES AND LINTELS IN EXTERIOR WALL SYSTEMS SHALL BE HOT DIP GALVANIZED PER ASTM A123.
8. ALL CONNECTIONS NOT FULLY DETAILED IN THE CONTRACT DOCUMENTS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CONNECTION DESIGN ENGINEER SHALL BE EMPLOYED OR RETAINED BY THE STEEL FABRICATOR. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING THE COSTS FOR ALL MISCELLANEOUS STEEL SHOWN IN THE CONTRACT DOCUMENTS. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, MISCELLANEOUS STEEL ITEMS SHOWN ON THE STRUCTURAL, ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND IN THE SPECIFICATIONS.
10. AT ALL GALVANIZED OR PAINTED STEEL MEMBERS WITH FIELD WELDED CONNECTIONS, REMOVE GALVANIZING, PAINT OR PRIMER PRIOR TO FIELD WELDING AS REQUIRED. AFTER WELDING IS COMPLETE AND INSPECTOR APPROVED, PREPARE AND REPAINT THE FRAMING SURFACES.

GENERAL NOTES

COLD FORMED METAL FRAMING

1. COLD FORMED METAL FRAMING AND THE CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DESIGN AND DETAILING SHALL COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
2. ALL COLD FORMED METAL FRAMING SHALL HAVE A MINIMUM THICKNESS OF 33 MILS (20 GA) AND SHALL BE SPACED AT A MAXIMUM OF 16 INCHES ON CENTER UNLESS NOTED OTHERWISE IN CONTRACT DOCUMENTS AND SHALL MEET THE MINIMUM STRUCTURAL PROPERTIES FROM THE AMERICAN IRON AND STEEL INSTITUTE - NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING LATEST EDITION. MINIMUM FLANGE WIDTH OF FRAMING MEMBERS SHALL BE 1 5/8 INCH AND THE LIP LENGTH OF THE C-SHAPE PORTION SHALL BE A MINIMUM OF 1/2 INCH.
3. WALL STUDS AS BACKING TO MASONRY [or STONE] VENEER SHALL SHALL HAVE A MINIMUM THICKNESS OF 43 MILS (18 GA).
4. COLD FORM METAL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE:

	ASTM SPECIFICATION
A. 54 MILS (16 GA) AND HEAVIER	A1003, GRADE 50 TYPE H (ST50H)
B. 43 MILS (18 GA) AND LIGHTER	A1003, GRADE 33 TYPE H (ST33H)
C. ACCESSORIES, TRACK AND OTHER MEMBERS	A1003, GRADE 33 TYPE H (ST33H), MINIMUM

5. DO NOT WELD 33 MILS (20 GA) AND LIGHTER FRAMING, UNLESS SPECIFICALLY NOTED IN THE CONTRACT DOCUMENTS.
6. COLD FORMED METAL FRAMING AND BRACING SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS AND SPECIFICATIONS.
7. HORIZONTAL BRACING FOR WALL STUDS SHALL BE PLACED AT 48 INCHES ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 48 INCHES ON CENTER. HORIZONTAL BRIDGING FOR JOISTS SHALL BE PLACED AT 8'-0" ON CENTER OR AS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS IF LESS THAN 8'-0" ON CENTER. APPLIED FINISH MATERIALS SHALL NOT BE CONSIDERED BRIDGING OR FLANGE BRACING UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
8. ALL AXIALLY LOADED WALL STUDS SHALL HAVE FULL FLANGE BEARING AGAINST UPPER AND LOWER TRACK WEB PRIOR TO ATTACHMENT TO TRACK. SPLICES IN AXIALLY LOADED WALL STUDS ARE NOT ALLOWED.
10. CONNECTIONS SHALL CONSIST OF ANY OF THE FOLLOWING AS NOTED IN THE CONTRACT DOCUMENTS:
A. SELF-DRILLING SCREWS OF TYPE AND SIZE AS SHOWN IN THE CONTRACT DOCUMENTS.
B. WELDS SHALL BE PERFORMED BY OPERATORS QUALIFIED IN ACCORDANCE WITH SECTION 6.0 OF AWS D1.3, SHEET METAL.

POST INSTALLED ANCHORS

1. ANCHORS SHALL ONLY BE INSTALLED WHERE SPECIFIED ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST INSTALLED ANCHORS IN PLACE OF MISSING OR MIS-PLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REINFORCING. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR PRIOR TO COMPLETION OF WORK.
2. THE CONTRACTOR SHALL SUBMIT PRODUCT DATA WITH DESIGN VALUES AND PHYSICAL PROPERTIES FOR ALL POST INSTALLED ANCHORS. ADDITIONALLY, THE CONTRACTOR SHALL SUBMIT CERTIFIED ICC ES OR ESR REPORTS WHICH VERIFY COMPLIANCE WITH THE SPECIFIED CRITERIA.
3. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED ON THE CONTRACT DRAWINGS SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER ALONG WITH CALCULATIONS THAT ARE SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION AND LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARDS AS REQUIRED BY THE BUILDING CODE.
4. ALL HOLES SHALL BE DRILLED, DRY AND CLEANED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE PER ANCHOR MANUFACTURER'S WRITTEN SPECIFICATIONS. THE LATEST VERSION OF THE WRITTEN SPECIFICATION SHALL BE ON-SITE AND FOLLOWED DURING THE INSTALLATION OF THE ANCHORS.
5. THE ANCHOR EMBEDMENT DEPTH SHALL BE DEFINED AS THE DEPTH FROM THE SURFACE FACE OF THE LOAD BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN FULLY INSTALLED INTO THE HOLE PER MANUFACTURER'S SPECIFICATIONS.
6. ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.
7. CONTRACTOR SHALL FOLLOW THE LATEST VERSION OF MANUFACTURER'S SPECIFICATION DURING INSTALLATION OF ANCHORS.
8. OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

DEFERRED STRUCTURAL SUBMITTALS (IBC 2018 SECTION 107.3.4.1)

1. THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE DESIGNED AND SUBMITTED BY OTHERS FOR APPROVAL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
A. COLD FORMED METAL WALL FRAMING AND ATTACHMENTS TO STRUCTURE.
2. DOCUMENTS FOR DEFERRED STRUCTURAL SUBMITTAL ITEMS SHALL BE DESIGNED, SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL DOCUMENTS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER-OF-RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL AS REQUESTED WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED FOR DESIGN LOADS AND BEEN FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN CRITERIA OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

STRUCTURAL OBSERVATION REQUIREMENTS (IBC 2018 SECTION 1704.6)

1. A REPRESENTATIVE OF THE ENGINEER OF RECORD WILL PERFORM THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTION REQUIRED OF THE BUILDING OFFICIAL OR THE SPECIAL INSPECTOR.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD AND ATTENDED BY THE ARCHITECT, ENGINEER OF RECORD, GENERAL CONTRACTOR, SUBCONTRACTORS, AND SPECIAL INSPECTORS.
3. THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO COMPLETING CONSTRUCTION OPERATIONS THAT REQUIRE STRUCTURAL OBSERVATION (BY CALLING (918) 584-5858 TO SCHEDULE A SITE VISIT.)
4. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:
A. AFTER INSTALLATION OF FIRST FOUNDATION REINFORCING AND BEFORE CONCRETE PLACEMENT.
B. AFTER ERECTION OF STRUCTURAL STEEL AND BEFORE METAL DECK PLACEMENT.
C. AFTER INSTALLATION AND FASTENING OF METAL DECK AND BEFORE PLACING INSULATION.
5. AT THE CONCLUSION OF THE WORK INCLUDED IN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

SPECIAL INSPECTION REQUIREMENTS (2018)

SPECIAL INSPECTIONS REQUIREMENTS (IBC 2018 CHAPTER 17)

1. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS PER SECTION 1704 OF THE IBC. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED IN THE PROJECT SPECIFICATIONS.
2. REPORT REQUIREMENTS SHALL CONFORM TO SECTIONS 1704.2.4 AND 1704.5 OF THE IBC. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SPECIAL INSPECTOR REGARDING INDIVIDUAL INSPECTION FOR ITEMS LISTED ON THE STATEMENT OF SPECIAL INSPECTIONS AND AS NOTED ON THE BUILDING DEPARTMENT APPROVED PLANS. ADEQUATE NOTICE AND ACCESS TO APPROVED PLANS SHALL BE PROVIDED SO THAT THE SPECIAL INSPECTOR HAS TIME TO BECOME FAMILIAR WITH THE PROJECT.
4. FABRICATORS OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS OR ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1704.2.5 OF THE IBC.
5. SPECIAL INSPECTION REPORTS AND A FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.

IBC 2018 REQUIRED SPECIAL INSPECTIONS

			FREQUENCY OF INSPECTION	
			CONTINUOUS	PERIODIC
STEEL CONSTRUCTION - STRUCTURAL STEEL (IBC SECTION 1705.2.1)				
1.		SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360-16.		X
STEEL CONSTRUCTION - COLD-FORMED STEEL TRUSSES (IBC SECTION 1705.2.4)				
1.		VERIFICATION THAT THE TEMPORARY INSTALLATION RESTRAINT/BRACING AND THE PERMANENT INDIVIDUAL TRUSS MEMBER RESTRAINT/BRACING ARE INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE AT COLD-FORMED STEEL TRUSSES WITH A CLEAR SPAN OF 60'-0" OR GREATER.	---	X
CONCRETE CONSTRUCTION (IBC TABLE 1705.3)				
1.		INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X
2.		REINFORCING BAR WELDING:		
	A.	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	---	X
	B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
	C.	INSPECT ALL OTHER WELDS	X	
3.		INSPECT ANCHORS CAST IN CONCRETE.	---	X
4.		INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. (a)		
	A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	
	B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4 A.		X
5.		VERIFY USE OF REQUIRED DESIGN MIX.	---	X
6.		PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
7.		INSPECT CONCRETE AND SHOTCRETE PLACEMENT OF PROPER APPLICATION TECHNIQUES.	X	---
8.		VERIFY MAINTENANCE OF SPECIFIED CUREING TEMPERATURE AND TECHNIQUES.	---	X
9.		INSPECT PRESTRESSED CONCRETE FOR:		
	A.	APPLICATION OF PRESTRESSING FORCES; AND	X	---
	B.	GROUTING OF BONDED PRESTRESSING TENDONS.	X	---
10.		INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	---	X
11.		VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X
12.		INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X
		a. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, CONTACT THE STRUCTURAL ENGINEER-OF-RECORD FOR SPECIAL INSPECTION REQUIREMENTS.		
SOILS (IBC TABLE 1705.6)				
1.		VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2.		VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3.		PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4.		VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5.		PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X
		** CONTINUOUS SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS PRESENT WHEN AND WHERE THE WORK TO BE INSPECTED IS BEING PERFORMED.		
		** PERIODIC SPECIAL INSPECTION: SPECIAL INSPECTION BY THE SPECIAL INSPECTOR WHO IS INTERMITTENTLY PRESENT WHERE THE WORK TO BE INSPECTED HAS BEEN OR IS BEING PERFORMED.		

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
A.O.R.	ARCHITECT OF RECORD
A.R.	ANCHOR RODS
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
ARCH.	ARCHITECTURAL
B.L.	BLOCK LINTEL
B.O.D.	BOTTOM OF DECK
B.O.S.	BOTTOM OF STEEL
B.P.	BASE PLATE
BAL.	BALANCE
BLDG.	BUILDING
BRG.	BEARING
C.J.	CONTRACTION JOINT
C.L.	CENTER LINE
CFMF	COLD FORMED METAL FRAMING
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
D.B.A.	DEFORMED BAR ANCHOR
D.B.E.	DECK BEARING ELEVATION
DIA.	DIAMETER
DTL.	DETAIL
DWG.	DRAWING
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.O.D.	EDGE OF DECK
E.O.R.	ENGINEER OF RECORD
E.O.S.	EDGE OF SLAB
E.W.	EACH WAY
EA.	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
ELEC.	ELECTRICAL
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING

ABBREVIATIONS

F.F.E.	FINISHED FLOOR ELEVATION
F.S.	FAR SIDE
F.V.	FIELD VERIFY
FDN.	FOUNDATION
FT.	FOOT/FEET
FTG.	FOOTING
G.B.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
GA.	GAGE
GALV.	GALVANIZED
H.S.A.	HEADED STUD ANCHOR
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
IN.	INCH/INCHES
INFO.	INFORMATION
J.B.E.	JOIST BEARING ELEVATION
JT.	JOINT
K	UNIT OF 1,000 POUNDS (KIP)
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG.	LONGITUDINAL
LSH	LONG SIDE HORIZONTAL
LSL	LONG SLOT
LSV	LONG SIDE VERTICAL
MAX.	MAXIMUM
MECH.	MECHANICAL
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.	OPPOSITE FACE
O.H.	OPPOSITE HAND

ABBREVIATIONS

OPP.	OPPOSITE
P.A.F.	POWER/POWDER ACTUATED FASTENER
PCF	POUNDS PER CUBIC FOOT
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PLUMB.	PLUMBING
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
R.O.	ROUGH OPENING
RE:	REFER
REINF.	REINFORCING
REQD.	REQUIRED
RTU	ROOF TOP UNIT
S.D.S.	SELF-DRILLING SCREWS
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SIM.	SIMILAR
SP.	SPACE/SPACING
SPECS.	SPECIFICATIONS
SSL	SHORT SLOT
STD.	STANDARD
STL.	STEEL
T&B	TOP AND BOTTOM
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PIER
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TRANS.	TRANSVERSE
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W.P.	WORK POINT
W.S.	WATERSTOP
W.W.R.	WELDED WIRE REINFORCEMENT
WT.	WEIGHT

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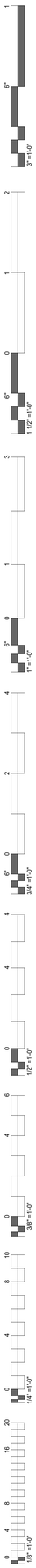
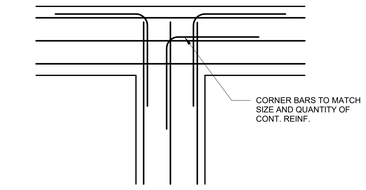
KEY PLAN:

PROJECT PHASE:
100% CONSTRUCTION DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 08/16/2024
SHEET NUMBER: S0.00
SHEET TITLE: GENERAL NOTES





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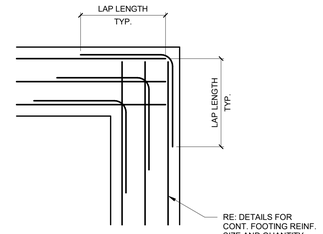
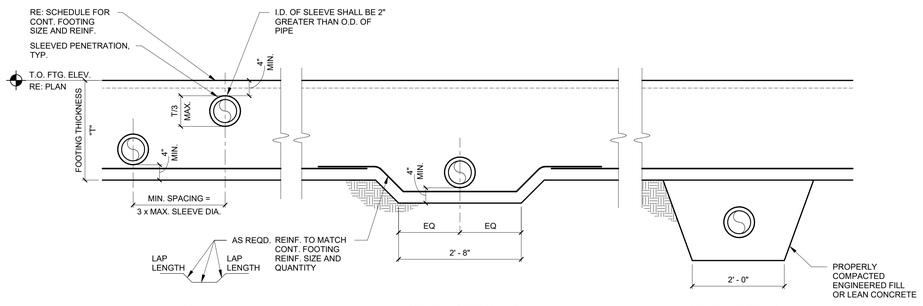


AT CORNERS

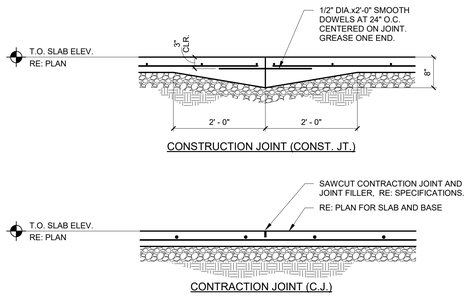
4 TYPICAL CORNER BAR DETAIL
3/4" = 1'-0"



TYPICAL | **WITHIN BOTTOM 4" OF FOOTING** | **BELOW FOOTING**

SLEEVE PENETRATIONS WITHIN THE TOP 4" OF FOOTING: LOWER SLEEVE TO PROVIDE THE MINIMUM CLEAR COVER AS SHOWN OR RAISE TO PENETRATE THROUGH THE STEM WALL. RE: TYPICAL PENETRATION THROUGH WALL DETAIL

3 TYPICAL PENETRATION THROUGH FOOTING
3/4" = 1'-0"



2 TYPICAL SLAB JOINT DETAILS
3/4" = 1'-0"

CONCRETE REINFORCING LAP LENGTH SCHEDULE

BAR SIZE	STRUCTURAL ELEMENT MINIMUM COMPRESSIVE STRENGTH (f'c)									
	3000psi		4000psi		4500psi		5000psi		7000psi	
	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER	TOP BARS	OTHER
#3	28"	22"	25"	19"	23"	18"	22"	17"	19"	14"
#4	38"	29"	33"	25"	31"	24"	29"	23"	25"	19"
#5	47"	36"	41"	31"	38"	30"	36"	28"	31"	24"
#6	56"	43"	49"	37"	46"	35"	44"	34"	37"	28"
#7	81"	63"	71"	54"	67"	51"	63"	49"	54"	41"
#8	93"	72"	81"	62"	76"	59"	72"	56"	61"	47"
#9	105"	81"	91"	70"	86"	66"	81"	63"	69"	53"
#10	118"	91"	102"	79"	96"	74"	92"	71"	77"	60"

NOTES:
1. LAP LENGTH FOR TOP BARS SHALL BE USED WHEN MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW HORIZONTAL REINFORCEMENT.

1 CONCRETE REINFORCING LAP SCHEDULE
3/4" = 1'-0"

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REVISIONS

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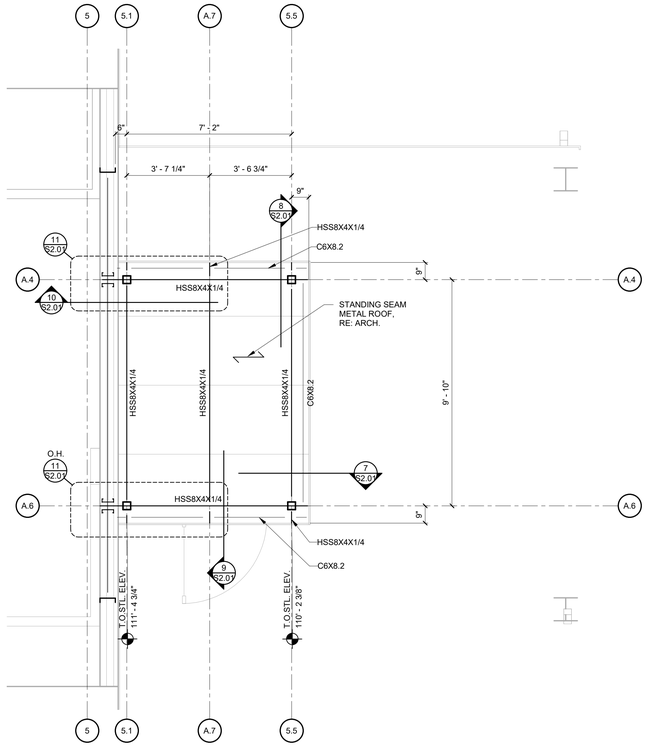
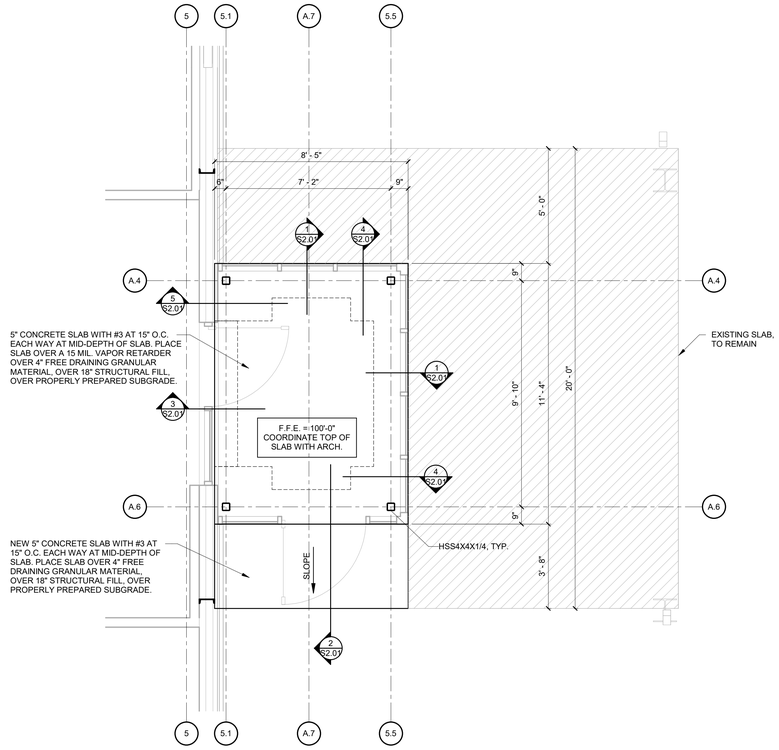
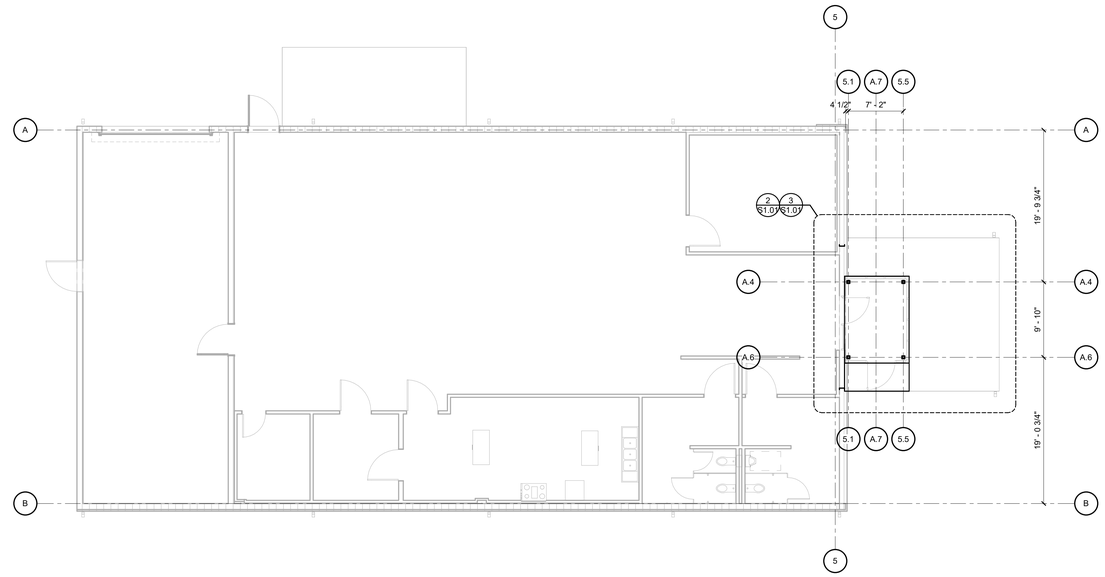
SHEET TITLE: TYPICAL DETAILS



3 FRAMING PLAN
3/8" = 1'-0"



2 FOUNDATION PLAN
3/8" = 1'-0"



1 OVERALL PLAN
1/8" = 1'-0"

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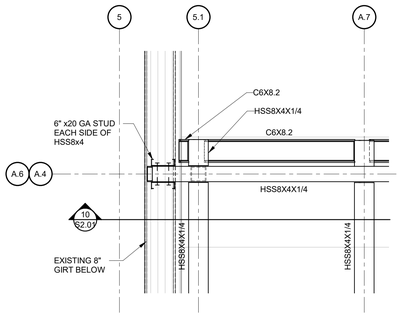
KEY PLAN:

PROJECT PHASE:
100% CONSTRUCTION DOCUMENTS

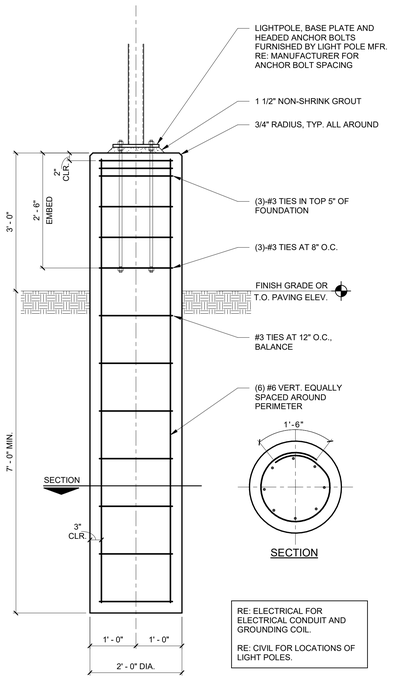
REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 08/16/2024
SHEET NUMBER: **S1.01**
SHEET TITLE: PLANS



11 FRAMING PLAN DETAIL
3/4" = 1'-0"

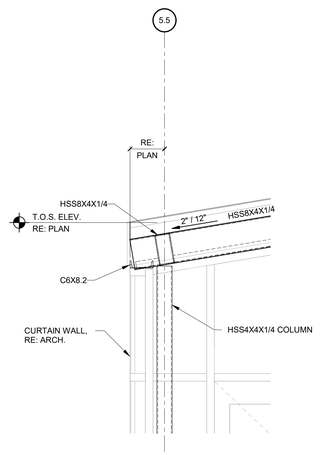


RE: ELECTRICAL FOR ELECTRICAL CONDUIT AND GROUNDING COIL.

RE: CIVIL FOR LOCATIONS OF LIGHT POLES.

POLE MANUFACTURER AND CONTRACTOR ARE RESPONSIBLE FOR THE POLE, BASE PLATE, ANCHOR BOLT SIZE AND EMBEDMENT AND WELDING OF THE POLE TO THE BASE PLATE. THESE ITEMS SHALL CONFORM TO IBC 2018 REQUIREMENTS FOR AN ULTIMATE DESIGN WIND SPEED OF 115 MPH (NOMINAL WIND SPEED OF 90 MPH) FOR BUILDING RISK CATEGORY I AND AASHTO LTS6 AND ACI 318-14.

6 LIGHT POLE FOUNDATION DETAIL
3/4" = 1'-0"



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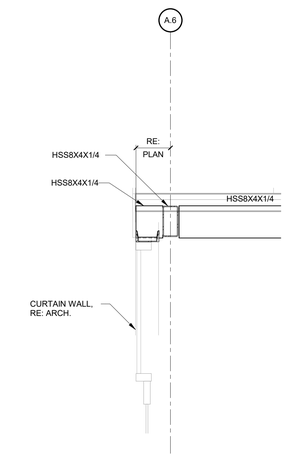
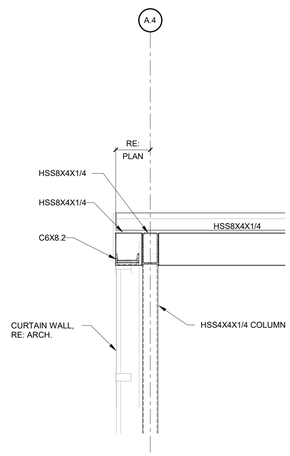
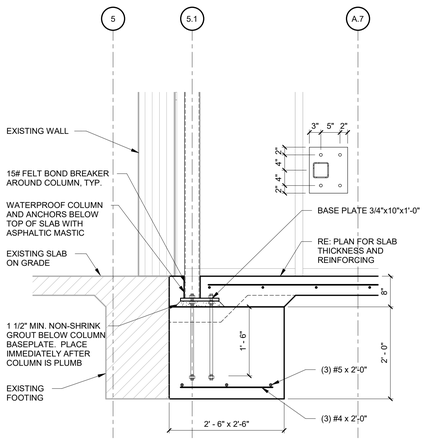


9 FRAMING DETAIL
3/4" = 1'-0"

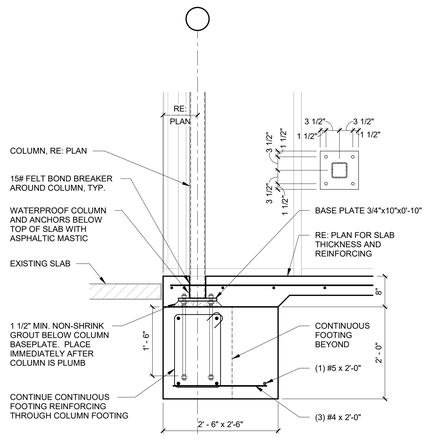


8 FRAMING DETAIL
3/4" = 1'-0"

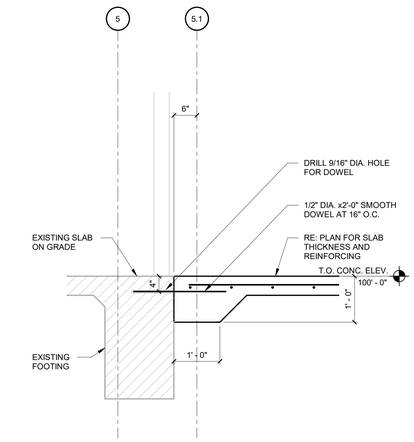
7 FRAMING DETAIL
3/4" = 1'-0"



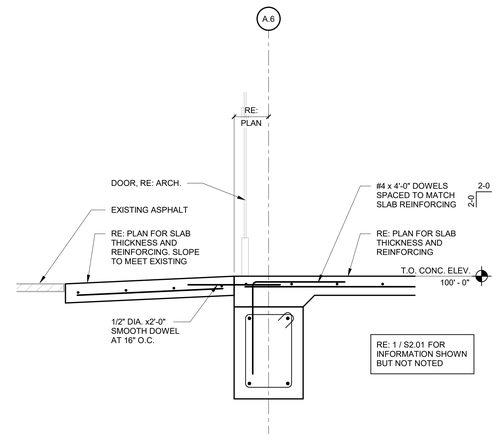
5 DETAIL AT COLUMN FOOTING
3/4" = 1'-0"



4 DETAIL AT COLUMN FOOTING
3/4" = 1'-0"

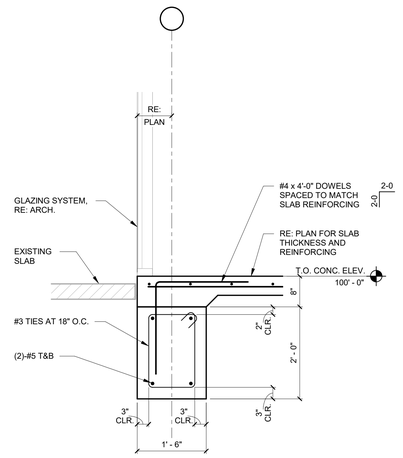


3 FOUNDATION DETAIL AT DOOR
3/4" = 1'-0"



RE: 1 / S2.01 FOR INFORMATION SHOWN BUT NOT NOTED

2 FOUNDATION DETAIL AT DOOR
3/4" = 1'-0"



1 FOUNDATION DETAIL
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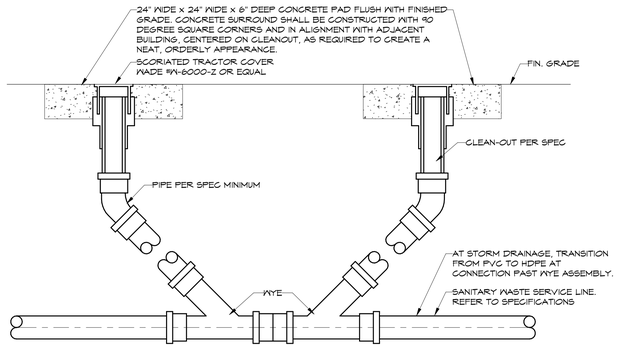
JOB NUMBER: 24-08.58
DATE: 08/16/2024
SHEET NUMBER: **S2.01**
SHEET TITLE: SECTIONS AND DETAILS

GENERAL PLUMBING NOTES

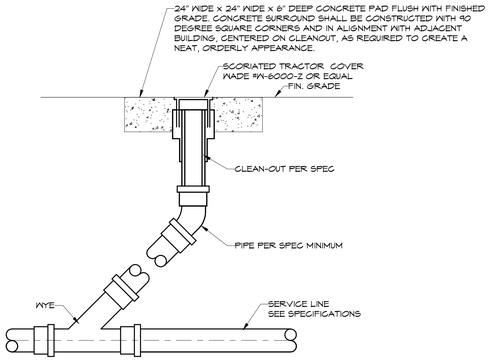
1. ALL PLUMBING MATERIALS AND INSTALLATION SHALL COMPLY WITH THE OKLAHOMA STATE PLUMBING CODE, LATEST EDITION.
2. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING AS PER STATE AND LOCAL CODES.
3. INSULATE ABOVE GRADE CONCEALED DOMESTIC HOT AND COLD WATER LINES PER SPECIFICATIONS, SECTION 15082 OR 22 07 19.
4. PROVIDE MAIN DOMESTIC COLD WATER LINE BUILDING SHUT OFF VALVE AT ENTRY INTO THE BUILDING. INSTALL IN FREEZE PROOF VAULT WITH ACCESS COVER.
5. INSTALL DEEP SEAL TRAPS AT ALL DRAIN CONNECTIONS.
6. COORDINATE UNDER SLAB PIPING WITH COLUMNS AND FOOTINGS. REFER TO STRUCTURAL DRAWINGS.
7. MINIMUM DEPTH OF COVER FOR WATER LINES IS 30 IN.
8. BURY YELLOW #10 THWN COPPER TRACER WIRE IN TRENCH WITH ALL UNDER GROUND PLASTIC SERVICES. LEAVE ENDS EXPOSED FOR FUTURE LOCATION.
9. PROVIDE AND INSTALL 6 IN. DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS.
10. PROVIDE GAS MAIN BUILDING SHUT OFF VALVE NEAR ENTRY TO THE BUILDING.
11. ALL GAS PIPING SYSTEMS WITHIN A BUILDING AND OTHER ABOVE GROUND GAS PIPING SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO A GROUNDED ELECTRODE AS DEFINED IN N.F.P.A. 70.
12. VERIFY LOCATION AND SIZE OF EXISTING SITE UTILITIES WITH UTILITY AUTHORITIES PRIOR TO CONSTRUCTION.
13. ALL IMPROVEMENTS (PAVEMENTS, CURB AND GUTTER, SOD, ETC.) SHALL BE REPLACED BY GENERAL CONTRACTOR TO PRECONSTRUCTION CONDITION.
14. WHERE FIRE RATED PARTITIONS OR FLOORS OCCUR, ALL FLOOR TO FLOOR AND ROOM TO ROOM PENETRATIONS SHALL BE PROPERLY FIRE SEALED WITH U.L. LISTED AND CLASSIFIED FIRE CAULK OR FIRE SEALED BY USING AN APPROVED FIRE SEAL SLEEVE METHOD WHICH MEETS U.L. REQUIREMENTS. ALL OTHER PENETRATIONS OF RATED CHASES OR WALLS SHALL BE PROPERLY FIRE SEALED AND WHERE EXTENDING THROUGH SUCH RATED SURFACE SHALL BE A RATED FIRE STOP PENETRATION. ALL FIRE STOPPING, FIRE CAULKING AND FIRE SLEEVING OR OTHER FIRE SEALING SHALL BE ACCEPTABLE BY THE LOCAL AUTHORITIES AND SHALL BEAR THE U.L. SEAL.
15. INSTALL DOMESTIC WATER, GAS AND COMPRESSED AIR LINES TIGHT AGAINST BUILDING ROOF STRUCTURE.
16. VERIFY LOCATION, INVERT AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
17. PROVIDE CITY APPROVED REDUCED PRESSURE BACKFLOW PREVENTERS ON ALL DOMESTIC SERVICE LINES CONNECTED TO ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING OR STORAGE OF FOODS OR ICE. WATER PUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION WITH SIMILAR BACKFLOW PREVENTER.
18. CONDENSATE PIPING FROM ROOF TOP AIR CONDITIONERS SHALL BE SCHEDULE 40 PVC. PROVIDE CONDENSATE TRAP. ROUTE CONDENSATE LINE TO NEAREST ROOF DRAIN OR GUTTER.
19. PROVIDE WEATHERPROOF PIPE BOOT WITH ULTRAPLY TPO MEMBRANE AS FLASHING AND STAINLESS STEEL CLAMPING RING FOR ALL GAS LINES PENETRATING THE ROOF.
20. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE OKLAHOMA STATE MECHANICAL CODE.
21. ALL WATER AND SEWER LINE MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF OCHELATA STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION AS WELL AS THE OKLAHOMA STATE PLUMBING CODE.
22. MECHANICAL CONTRACTOR SHALL REFER TO THE FOOD SERVICE DRAWINGS AND PROVIDE ALL REQUIRED MECHANICAL FOOD SERVICE EQUIPMENT CONNECTIONS.
23. HORIZONTAL BRANCHES SHALL CONNECT TO HORIZONTAL STACK OFFSETS AND TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM FROM THE STACK.
24. CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS OF ALL PLUMBING AND PIPING SYSTEMS UPON COMPLETION OF THE PROJECT.
25. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS, THE BUILDING SITE, AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. IF CONTRACTOR HAS QUESTIONS REGARDING ASSEMBLIES OR LAYOUTS WITH THE PROJECT HE SHALL MAKE THEM KNOWN TO THE ENGINEER IN WRITING PRIOR TO BIDDING THE PROJECT. CLAIMS MADE SUBSEQUENT TO THE BID WILL NOT BE ACCEPTED IF IT IS DETERMINED THAT PROPER FAMILIARIZATION COULD HAVE AVOIDED SUCH CLAIM.
26. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION PLUMBING SITE UTILITIES WITH SITE WORK OF OTHER TRADES. IN INSTANCES WHERE COORDINATION REQUIRES DEVIATION FROM PLANS MECHANICAL CONTRACTOR SHALL NOTIFY ENGINEER OF PROPOSED CHANGES.
27. COMPLY WITH STATE OF OKLAHOMA ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
28. PROVIDE DRIP PAN FOR ENTIRE LENGTH OF PIPE WHERE PIPE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
29. DO NOT ROUTE GROUPS OF CONDUIT, PIPES, AND SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT/ENGINEER.
30. LIMIT WIDTH OF CONDUIT, PIPES AND SLEEVES NOT TO EXCEED 3 FEET IN WIDTH AS IT PASSES UNDER WALL FOOTING. AS MUCH AS POSSIBLE, ALIGN THE ITEMS PERPENDICULAR TO THE FOOTING AS IT PASSES BELOW FOOTING.
31. PROVIDE A MINIMUM SPACING OF 2 FEET BETWEEN CONDUIT OR PIPE GROUPS AS ITEMS PASS UNDER FOOTINGS.
32. DO NOT ROUTE CONDUITS, PIPE OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.
33. MECHANICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES, ROOF, OVERFLOW AND FLOOR DRAINS. IF PLUMBING FIXTURES OR DRAINS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT EVEN IF NOT SHOWN ON THE MECHANICAL DRAWINGS.
34. WHERE THE BUILDING SEWER IS INSTALLED WITHIN 10 FEET OF THE WATER SERVICE THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER. REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE IS SLEEVED 10 FEET HORIZONTALLY FROM THE SEWER PIPE CENTERLINE ON BOTH SIDES OF SUCH PIPE CROSSINGS.
35. DO NOT SCALE DIRECTLY FROM THE PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
36. ALL PLUMBING SANITARY WASTE AND VENT PIPING INSTALLED IN FIRE RATED WALLS OR PLENUM RETURN AIR SYSTEMS SHALL BE CAST IRON. REFER TO ARCHITECTURAL PLANS FOR LIFE SAFETY INFORMATION.

PLUMBING LEGEND

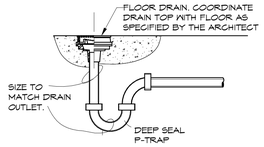
	SANITARY WASTE PIPING
EX SS	EXISTING SANITARY WASTE PIPING
	GREASE SANITARY WASTE PIPING
	VENT PIPING
	EXISTING VENT PIPING
	COLD WATER PIPING
EX CW	EXISTING COLD WATER PIPING
	HOT WATER PIPING
EX HW	EXISTING HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
EX HWR	EXISTING HOT WATER RETURN PIPING
MPG	MEDIUM PRESSURE GAS PIPING (5 PSIG)
G	LOW PRESSURE GAS PIPING (11 IN. W.C.)
EX G	EXISTING LOW PRESSURE GAS PIPING
CD	CONDENSATE DRAIN PIPING
RD	ROOF DRAIN PIPING
OFD	OVER FLOW DRAIN PIPING
SD	STORM DRAIN PIPING
FL	FIRE LINE
FDC	FIRE DEPARTMENT CONNECTION
	PIPING TO BE REMOVED
	BALL VALVE
N	CHECK VALVE
	PRESSURE REDUCING VALVE
	GAS REGULATOR EQUAL TO EQUIMETER 243
	GAS BALL VALVE
	CONNECTION POINT
	FIXTURES TO BE REMOVED
H	WATER HAMMER ARRESTOR (SIZE PER MANUFACTURER'S RECOMMENDED FIXTURE UNIT CAPACITY)
1	REFER TO KEYED NOTES
P-1	PLUMBING FIXTURE NUMBER (REFER TO PLUMBING FIXTURE SCHEDULE)
COTG	CLEAN OUT TO GRADE
FD	FLOOR DRAIN
FS	FLOOR SINK
FPHB	FREEZE PROOF HOSE BIB
HB	HOSE BIB
ADA	ACCESSIBLE
HD	HUB DRAIN
WCO	WALL CLEAN OUT
WH	WATER HEATER
SS	SANITARY SEWER
RD	ROOF DRAIN



1 DOUBLE CLEAN OUT TO GRADE
NTS



2 CLEAN OUT TO GRADE DETAIL
NTS



3 FLOOR DRAIN DETAIL
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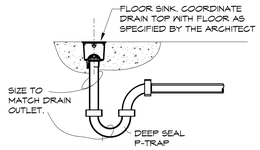

4 FLOOR SINK DETAIL
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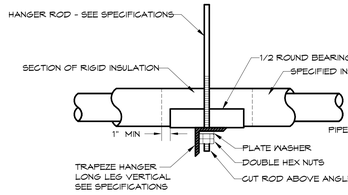

5 TYPICAL PIPE HANGER DETAIL-TRAPEZE
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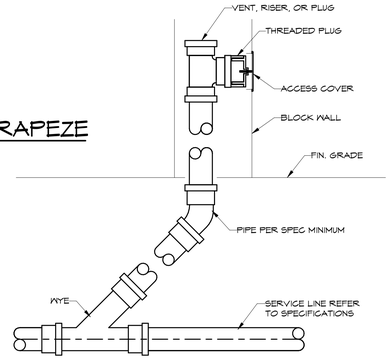
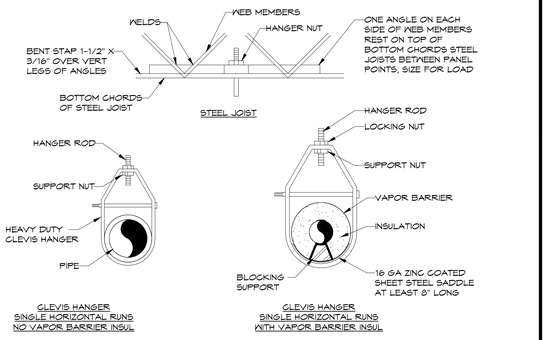
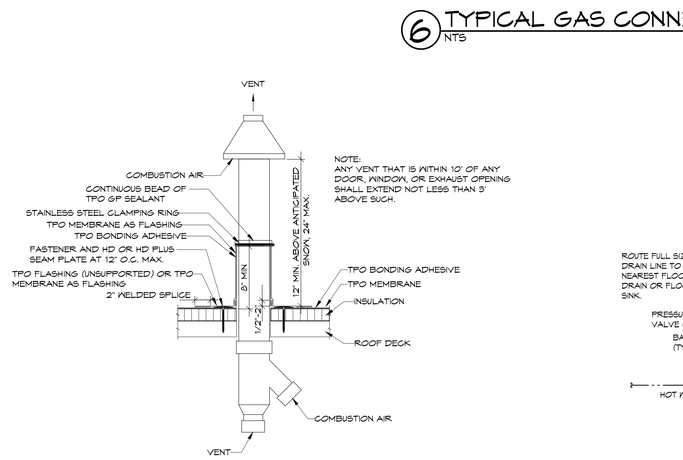


7 WALL CLEAN OUT DETAIL
NTS

HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	1/4" DIA	8" THRU 12"	1/2" DIA
2 1/2" UP TO 6"	3/8" DIA		

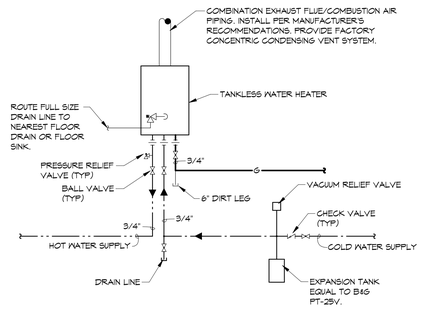


8 TYPICAL PIPE HANGER DETAIL-CLEVIS HANGER
NTS



6 TYPICAL GAS CONNECTION
NTS

9 CONCENTRIC VENT DETAIL
NTS



10 WATER HEATER DETAIL
NTS

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	CONNECTION CW	CONNECTION HW	CONNECTION SS	REMARKS / ACCESSORIES
P-1	LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2	1/2	2	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACKSPLASH. PROVIDE AMERICAN STANDARD RELIANT 7385.050 SINGLE LEVER, 0.5 GPM FAUCET WITH EXTRA LONG HANDLE, BASE PLATE, GRID DRAIN, MADE #520 WALL CARRIER, HANDILAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 31 IN. A.F.F. TO TOP OF RIM. PROVIDE WATTS LFMMV UNDER COUNTER THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE TO 105 DEGREES F.
P-2	UTILITY SINK	PROVIDED BY FOOD SERVICE PROVIDER	INSTALLED BY PLUMBER	FLOOR	1/2	1/2	2	REFER TO FOOD EQUIPMENT PROVIDERS DRAWINGS FOR INSTALLATION INSTRUCTIONS.
P-3	THREE COMPARTMENT SINK	REUSE EXISTING	REUSE EXISTING	FLOOR	3/4	3/4	(2)	REFER TO FOOD EQUIPMENT PROVIDERS DRAWINGS FOR INSTALLATION INSTRUCTIONS.
P-4	FLOOR SINK W/ 3/4 GRATE	MADE	9110	FLOOR	-	-	*	*CAST IRON FLOOR SINK WITH NICKEL BRONZE GRATE. SIZE AS INDICATED ON PLANS OR MATCH WASTE LINE SIZE WHEN NOT INDICATED. PROVIDE 3/4 GRATE AND DEEP SEAL TRAP.
P-5	HUB DRAIN	-	PVC REDUCER	-	-	-	2	PVC REDUCER WITH TRAP. PROVIDE TRAP GUARD PROTECTION. REDUCER SHALL BE WITHIN TWO PIPE SIZES OF CONNECTED SANITARY PIPING.
P-6	TANKLESS WATER HEATER	REUSE EXISTING	REUSE EXISTING	WALL	3/4	3/4	-	-
P-7	CLEAN OUT TO GRADE	MADE	6000Z	TO GRADE	-	-	*	*SIZE TO MATCH WASTE LINE MAXIMUM TO 4 INCHES. PROVIDE HEAVY DUTY TRACTOR TYPE COVER.

NOTES:
1. COORDINATE COUNTER TOP FIXTURE INSTALLATION WITH MILLWORK.
2. INSTALL ACCESSIBLE FLUSH VALVE TO THE ACCESSIBLE SIDE.
3. ( ) DENOTES INDIRECT DRAIN.
4. MECHANICAL CONTRACTOR SHALL PROVIDE APPROVED TRAP GUARDS ON ALL FLOOR SINKS AND FLOOR DRAINS.

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HSA JOB # 24-056

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08/16/2024

CONSULTANT LOGO:

CLIENT:

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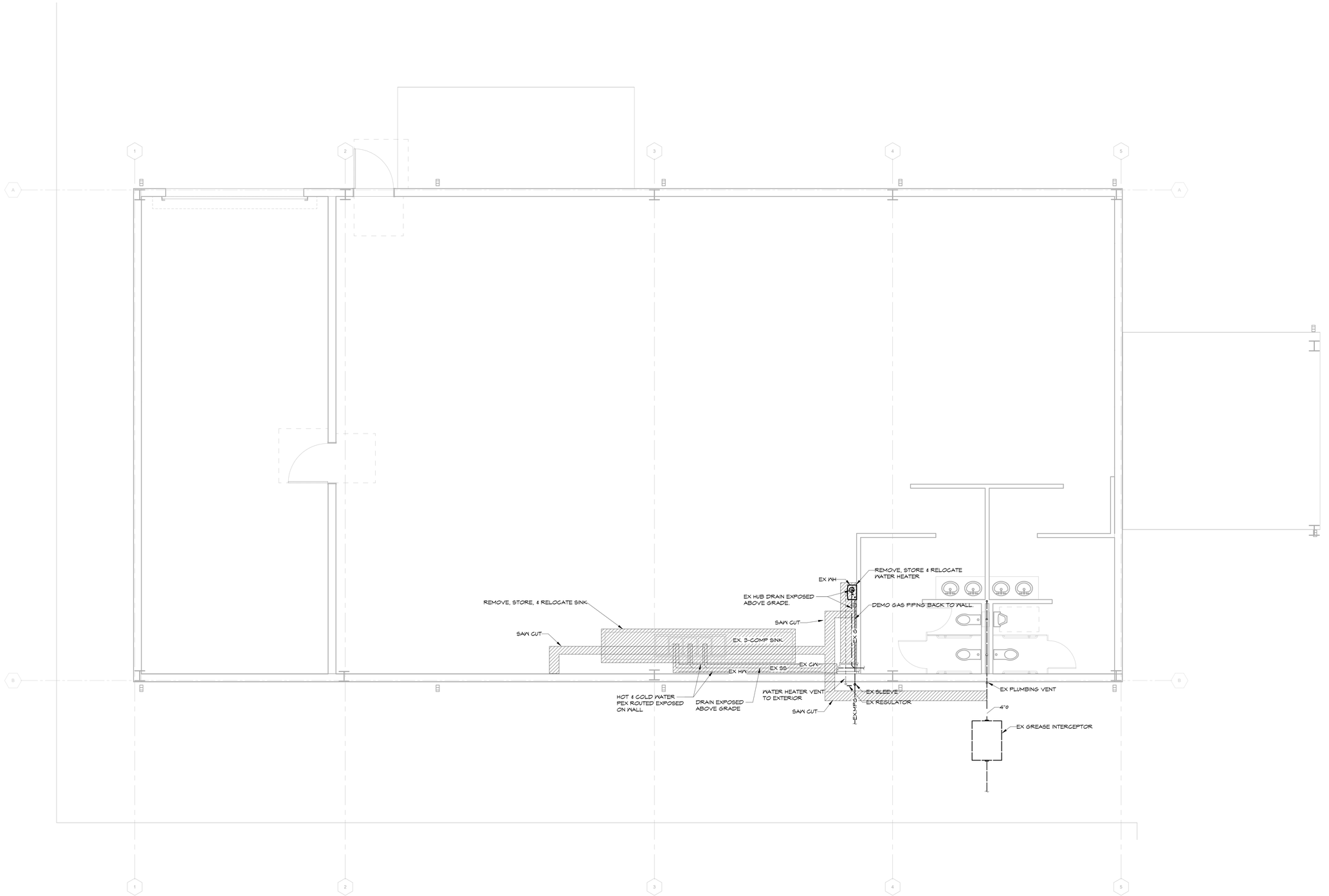
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **P1.1**
SHEET TITLE: PLUMBING NOTES, LEGEND, DETAILS, & SCHEDULES



1 PLUMBING DEMOLITION PLAN

1/4" = 1'-0"

NORTH

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WCCA - REMODEL AND SITE IMPROVEMENTS

395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:

100% CD's

REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58

DATE: 8/16/2024

SHEET NUMBER: **P2.0**

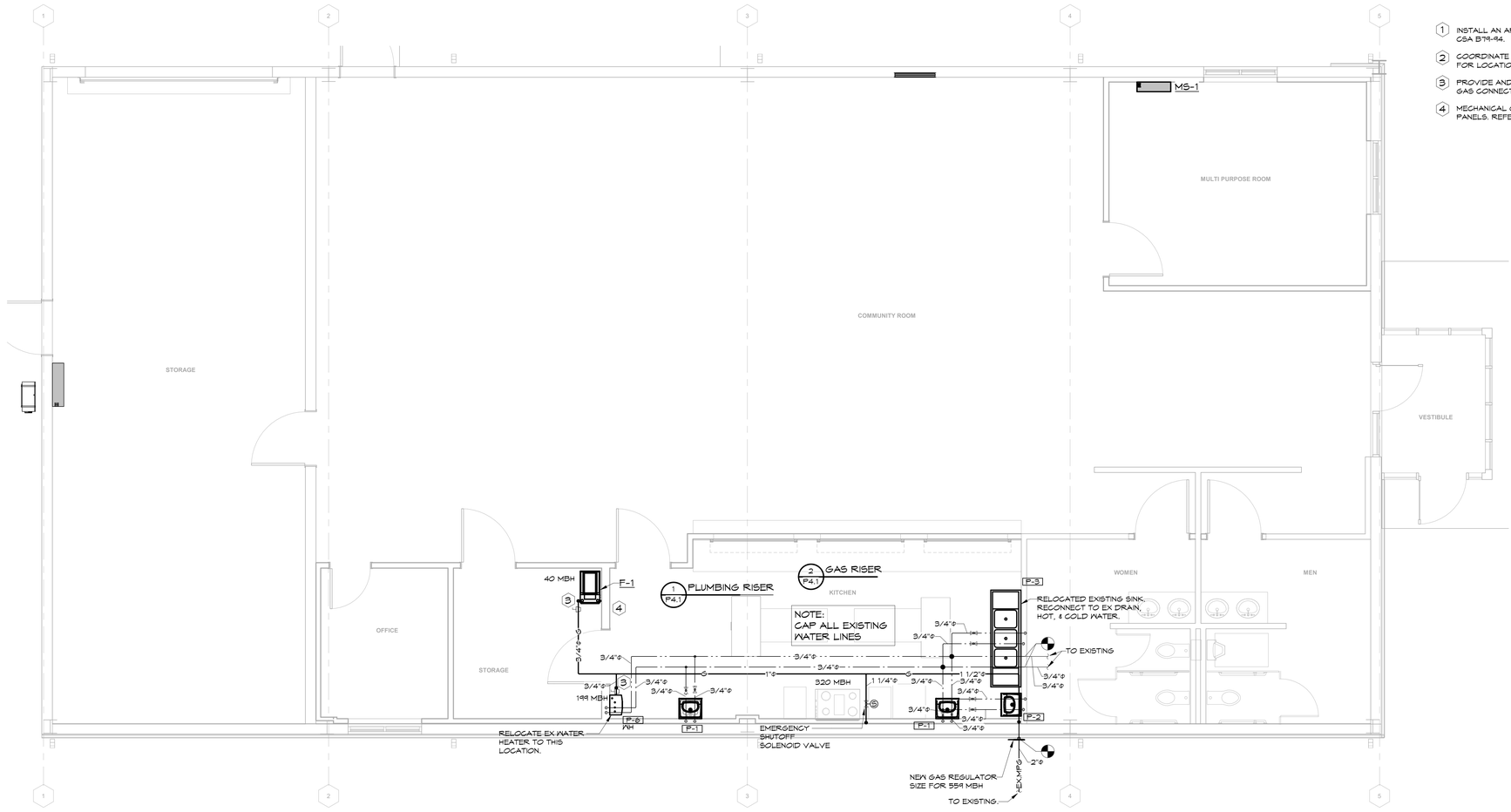
SHEET TITLE: PLUMBING DEMOLITION PLAN

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 24-056

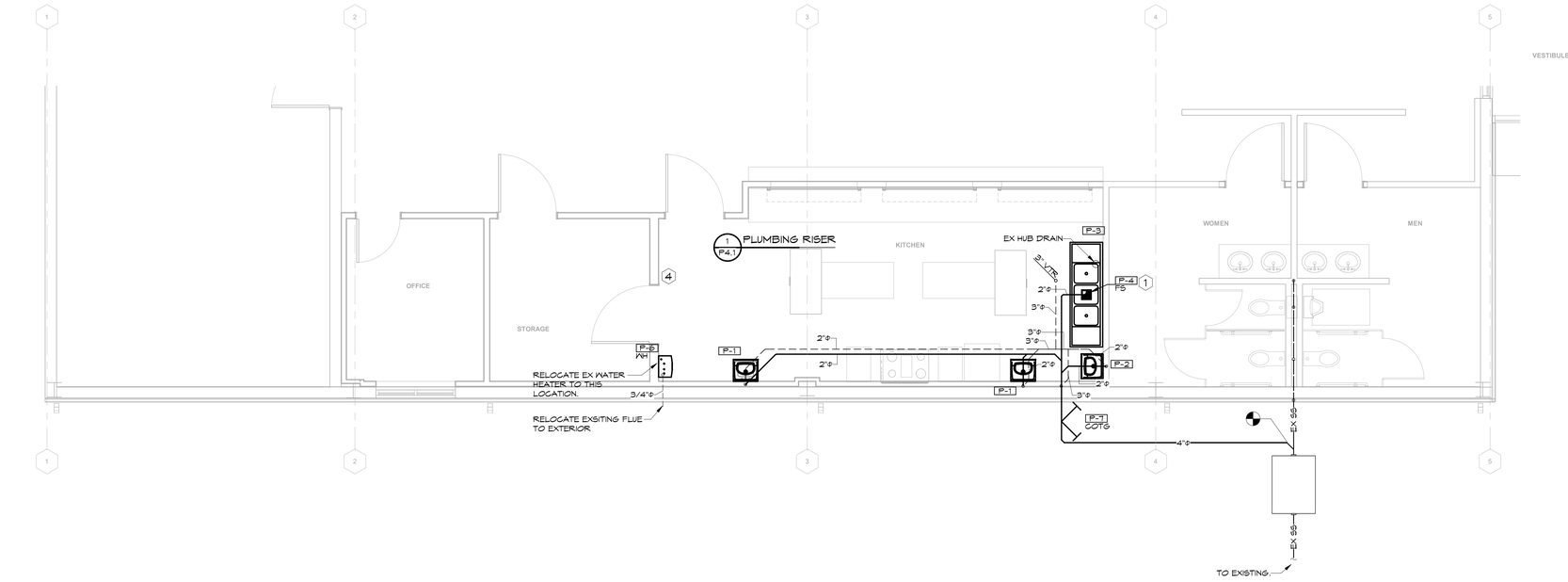
PLUMBING KEYED NOTES

1. INSTALL AN APPROVED TRAP GUARD PRODUCT THAT CONFORMS TO NSF-14, CSA B602-99 AND CSA B79-94.
2. COORDINATE UNDERSLAB PIPING WITH STRUCTURAL FOOTINGS. REFER TO STRUCTURAL PLANS FOR LOCATIONS AND SIZES OF FOOTINGS.
3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 6/P1.1.
4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.



1 DOMESTIC PLUMBING PLAN
1/4" = 1'-0"

NORTH



2 SANITARY PLUMBING PLAN
1/4" = 1'-0"

NORTH

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

PROFESSIONAL SEAL:

08/16/2024

CONSULTANT LOGO:

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CHEROKEE NATION
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1 PLUMBING RISER
N.T.S.

2 GAS RISER
N.T.S.

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SHEET TITLE: PLUMBING RISERS

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HSA JOB # 24-056

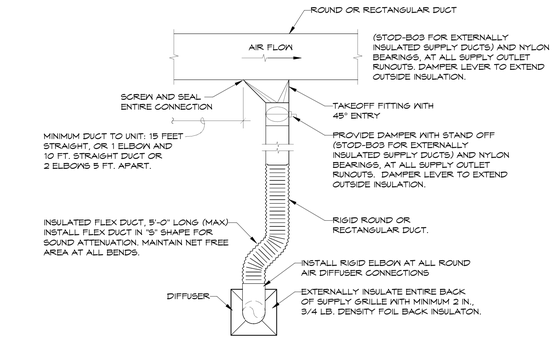
GENERAL HVAC NOTES

1. COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
2. INDICATED DUCT SIZES ARE NET FREE AREA.
3. ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
4. INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE PLENUMS AND EXHAUST AIR PLENUMS WITH 2 IN. 3/4 LB DENSITY FOIL BACKED INSULATION.
5. FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
6. EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
7. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
8. USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
9. INTERIOR OF ALL DUCT PLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
10. INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
11. PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
12. MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
13. INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
14. RECIRCULATING AIR SYSTEMS WITH A FAN CAPACITY GREATER THAN 2,000 NOMINAL CFM SHALL AUTOMATICALLY SHUT DOWN BY MEANS OF AN APPROVED SMOKE DETECTOR PLACED IN THE RETURN AIR STREAM PRIOR TO ANY EXHAUSTING FROM THE BUILDING OR MIXING WITH FRESH AIR MAKEUP. ALL CONTROLS SHALL BE LISTED. UPON ACTIVATION OF THE SAFETY CONTROL, THE SYSTEM SHALL NOT RESTART UNTIL THE SAFETY CONTROL IS MANUALLY RESET.
15. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
16. SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
17. FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
18. MECHANICAL CONTRACTOR SHALL REFER TO THE FOOD SERVICE DRAWINGS AND PROVIDE ALL REQUIRED MECHANICAL FOOD SERVICE EQUIPMENT CONNECTIONS.
19. FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW IS SENSED.
20. EVERY ATTIC OR FURRED SPACE IN WHICH MECHANICAL EQUIPMENT IS INSTALLED SHALL BE ACCESSIBLE BY AN OPENING AND PASSAGEWAY AS LARGE AS THE LARGEST PIECE OF THE EQUIPMENT AND IN NO CASE LESS THAN 22 X 36 INCHES CONTINUOUS FROM THE OPENING TO THE EQUIPMENT AND ITS CONTROLS. THE OPENING TO THE PASSAGEWAY SHALL BE LOCATED NOT MORE THAN 20 FT. FROM THE EQUIPMENT MEASURED ALONG THE CENTERLINE OF SUCH PASSAGEWAY. EVERY PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID CONTINUOUS FLOORING NOT LESS THAN 24 IN. WIDE FROM THE EQUIPMENT. ON THE CONTROL SIDE AND OTHER SIDES WHERE ACCESS IS NECESSARY FOR SERVICING THE EQUIPMENT, A LEVEL PLATFORM EXTENDING A MINIMUM 30 IN. FROM THE EDGE OF THE EQUIPMENT WITH A 36 IN. HIGH CLEAR WORKING SPACE SHALL BE PROVIDED. TOP OR BOTTOM SERVICE EQUIPMENT SHALL HAVE A FULL CLEARANCE ABOVE OR BELOW THE UNIT FOR COMPONENT REMOVAL.
21. SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
22. SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
23. SPRINKLER CONTRACTOR TO BE RESPONSIBLE FOR ROUTING ALL SPRINKLER PIPING TO AVOID ALL UNCONDITIONED SPACES.
24. DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
25. MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES ABOVE THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
26. EVERY APPLIANCE LOCATED ON A ROOF OF A BUILDING SHALL BE INSTALLED ON A SUBSTANTIAL LEVEL PLATFORM. WHENEVER THE ROOF HAS A SLOPE 4:12 OR GREATER, A LEVEL WORKING PLATFORM NOT LESS THAN 30 IN. DEEP SHALL BE PROVIDED IN FRONT OF THE ENTIRE FIREBOX AND CONTROL SIDES OF THE APPLIANCE. ALL SIDES OF ANY WORKING PLATFORM FACING ANY PORTION OF THE ROOF EDGE BELOW THE PLATFORM SHALL BE PROTECTED BY SUBSTANTIAL RAILING 42 IN. HIGH WITH VERTICAL RAILS NOT MORE THAN 21 IN. APART, EXCEPT THAT PARAPETS AT LEAST 24 IN. HIGH MAY BE UTILIZED IN LIEU OF RAILS OR GUARDS. REQUIRED WORKING PLATFORMS AND RAILINGS MAY BE OMITTED WHEN ACCESS TO THE EQUIPMENT IS THROUGH A REQUIRED ROOF SCUTTLE AND ALL OF THE FOLLOWING PROVISIONS ARE MET:

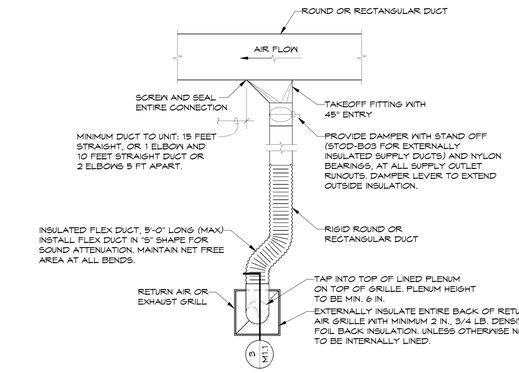
A. THE REQUIRED SCUTTLE IS LOCATED IMMEDIATELY ADJACENT TO THE CONTROL SIDE OF THE EQUIPMENT UNIT.
B. ALL CONTROLS, FILTERS, BURNERS, FANS, AND MOTORS ARE ACCESSIBLE FOR SERVICE AND REPAIR WITHIN 2 FT. OF THE EDGE OF THE EQUIPMENT PLATFORM ON THE SCUTTLE SIDE.
C. THE EQUIPMENT PLATFORM IS NOT MORE THAN 20 IN. ABOVE THE HIGH SIDE OF THE SCUTTLE OPENING.
D. A SUBSTANTIAL WORKING PLATFORM NOT LESS THAN 30 IN. BY 30 IN. SHALL BE PROVIDED DIRECTLY BELOW THE SCUTTLE AT A POINT NOT LESS THAN 30 IN. OR MORE THAN 32 IN. BELOW THE HIGH SIDE OF THE SCUTTLE OPENING.
E. SCUTTLES LOCATED ON OTHER THAN THE ROOF INCLINE SIDE OF THE EQUIPMENT UNIT SHALL HAVE THEIR LIDS OR TRAP DOORS HINGED ON THE LOW SIDE OF THE SCUTTLE.

MECHANICAL LEGEND

- SUPPLY DUCT SECTION
- RETURN OR EXHAUST DUCT SECTION
- CEILING SUPPLY GRILLE
- CEILING RETURN GRILLE
- CEILING EXHAUST GRILLE
- SIDEWALL SUPPLY OR RETURN GRILLE
- (1) SEE KEYED NOTES
- SUPPLY, RETURN, OR EXHAUST DUCT
- SUPPLY, RETURN, OR EXHAUST DUCT
- EXISTING SUPPLY, RETURN, OR EXHAUST DUCT
- OR VOLUME DAMPER
- RECTANGULAR DUCT FIRE DAMPER
- 1FD ROUND DUCT FIRE DAMPER (NUMBER DENOTES FIRE RATING OF WALL. EXAMPLE: 1FD = ONE HR. RATED WALL)
- FLEX DUCT CONNECTION MAXIMUM OF 5 FT.
- SMOKE DETECTOR
- F-1 THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES FURNACE OR AIR HANDLER UNIT)



1 SUPPLY DUCT CONNECTION DETAIL
NTS



2 RETURN DUCT CONNECTION DETAIL
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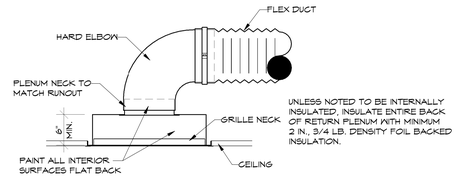
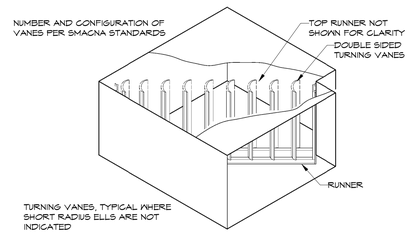
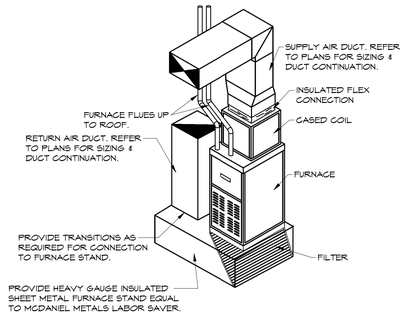


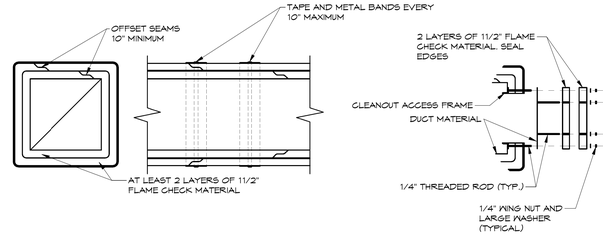
3 RETURN GRILLE CONNECTION SECTION
NTS



4 TURNING VANE DETAIL
NTS



5 FURNACE DETAIL
NTS



6 GREASE DUCT DETAIL
NTS

FURNACE SCHEDULE

MARK	MFG.	MODEL	ESP IN. WG	CFM	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING FUEL TYPE	OUTSIDE AIR (CFM)	AFUE %	VOLT/PH/HZ	REMARKS / ACCESSORIES
F-1	YORK	TMRY040A10MP11	.5	800	40	38	NG	100	96%	110 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8, 9, 10

REMARKS/ACCESSORIES
1. 96% MIN. AFUE UPFLOW GAS FURNACE.
2. ELECTRONIC SPARK IGNITION.
3. PROVIDE FACTORY VERTICAL CONCENTRIC VENT TERMINATION KITS REFER TO 6/M3.1 FOR DETAIL.
4. 10 YEAR MIN. NON-PRORATED HEAT EXCHANGER.
5. HORIZONTAL FURNACE.
6. PROVIDE 2" FARR 30/30 FILTERS.
7. PROVIDE FILTER HOUSING EQUAL TO MCDANIEL METALS "ACCOMMODATOR" FILTER HOUSING. HOUSING MUST ACCEPT UP TO 2 INCH FILTER.
8. PROVIDE MC24A MULTI-POSITION CASED "A" TYPE COIL WITH TXV REFRIGERANT CONTROL.
9. PROVIDE 7 INDIVIDUAL DAY PROGRAMMABLE THERMOSTAT.
10. PROVIDE LITTLE GIANT CONDENSATE PUMP.

CONDENSER SCHEDULE

MARK	MFG.	MODEL	TMBH	SMBH	MCA	MOP	VOLT/PH/HZ	REMARKS / ACCESSORIES
CU-1	YORK	YCD024	24	17.8	12.3	20	208 / 1 / 60	1, 2, 3, 4, 5

REMARKS/ACCESSORIES
1. MINIMUM 13.0 SEER CONDENSER.
2. PROVIDE LOW AMBIENT TO 0° F CONTROL WITH TXV AND CRANK CASE HEATERS.
3. PROVIDE LIQUID LINE FILTER DRYER.
4. PROVIDE FACTORY HAIL GUARD.
5. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.

MINI SPLIT SCHEDULE

MARK	MFG	UNIT MODEL NUMBERS		MOUNTING STYLE	TON(S)	COOLING		HEATING MBH	UNIT WEIGHTS		ELECTRICAL (SINGLE POINT CONNECTION)			ACCESSORIES
		OUTDOOR	INDOOR			TMBH	SMBH		OUTDOOR	INDOOR	M.C.A.	M.O.P.	VOLT / PH / HZ	
MS-1	DAIKIN	3MXS24RMVJUA	FTXS24LVJU	WALL	2 TON	24	-	24	137	22	21.9	25	208 / 1 / 60	1, 2, 3, 4

REMARKS/ACCESSORIES
1. PROVIDE WIRELESS REMOTE UNIT
2. PROVIDE FACTORY WALL MOUNTING HARDWARE. INSTALL AT 8'-0" A.F.F IN LOCATION INDICATED ON PLAN.
3. PROVIDE WITH LOW AMBIENT KIT TO 0° F.
4. PROVIDE OUTDOOR MULTI-SPLIT CONDENSING UNIT. MODEL 3MXS24RMVJUA, WEIGHT-137 LBS.

AIR DISTRIBUTION SCHEDULE

MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ ACCESSORIES
A	150	8"Ø	TITUS	TMS	SUPPLY	WHITE	SURFACE	1, 3, 4
B	200-300	10"Ø	TITUS	TMS	SUPPLY	WHITE	SURFACE	1, 3, 4
C	200-250	8"Ø	TITUS	TMS	SUPPLY	WHITE	SURFACE	1, 3, 4
D	200-250	8"Ø	TITUS	TMS	SUPPLY	WHITE	SURFACE	1, 3, 4
E	700	14"Ø	TITUS	355RL	RETURN	WHITE	SURFACE	2, 5
F	200	10" X 10"	TITUS	272FL	SUPPLY	WHITE	SURFACE	1, 4

REMARKS/ACCESSORIES
1. STEEL CONSTRUCTION.
2. ALUMINUM CONSTRUCTION.
3. PROVIDE INSULATED SQUARE TO ROUND GRILLE CONNECTIONS.
4. PROVIDE OPPOSED BLADE DAMPERS.
5. PROVIDE INSECT SCREEN.

EXHAUST FAN SCHEDULE

MARK	MFG.	MODEL	CFM	ESP, IN. WC	H.P./WATTS	VOLT/PH/HZ	SONE	RPM	REMARKS / ACCESSORIES
EF-1	REFER TO M3.1 THRU M3.4 FOR EF-1 INFORMATION								

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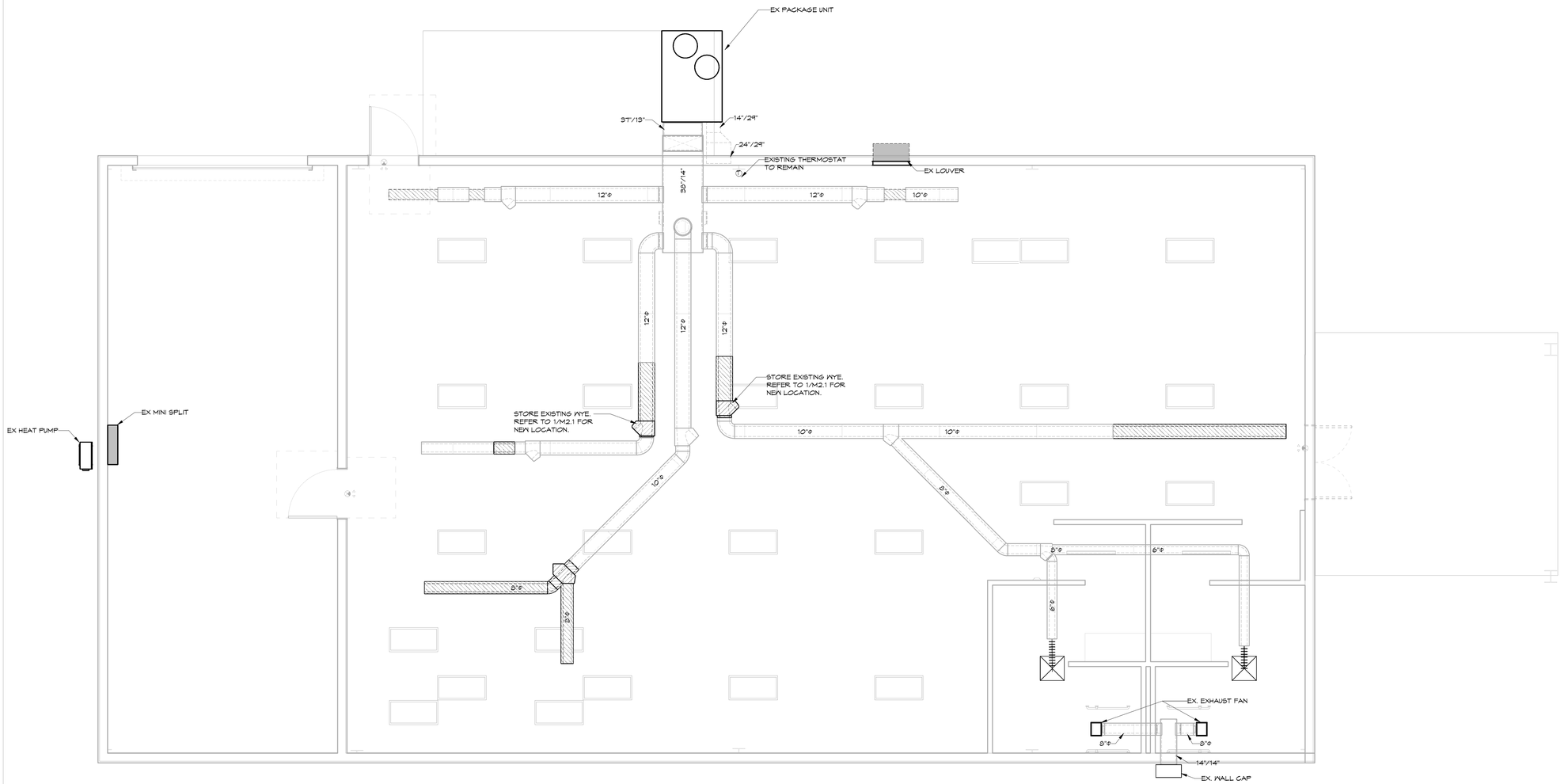

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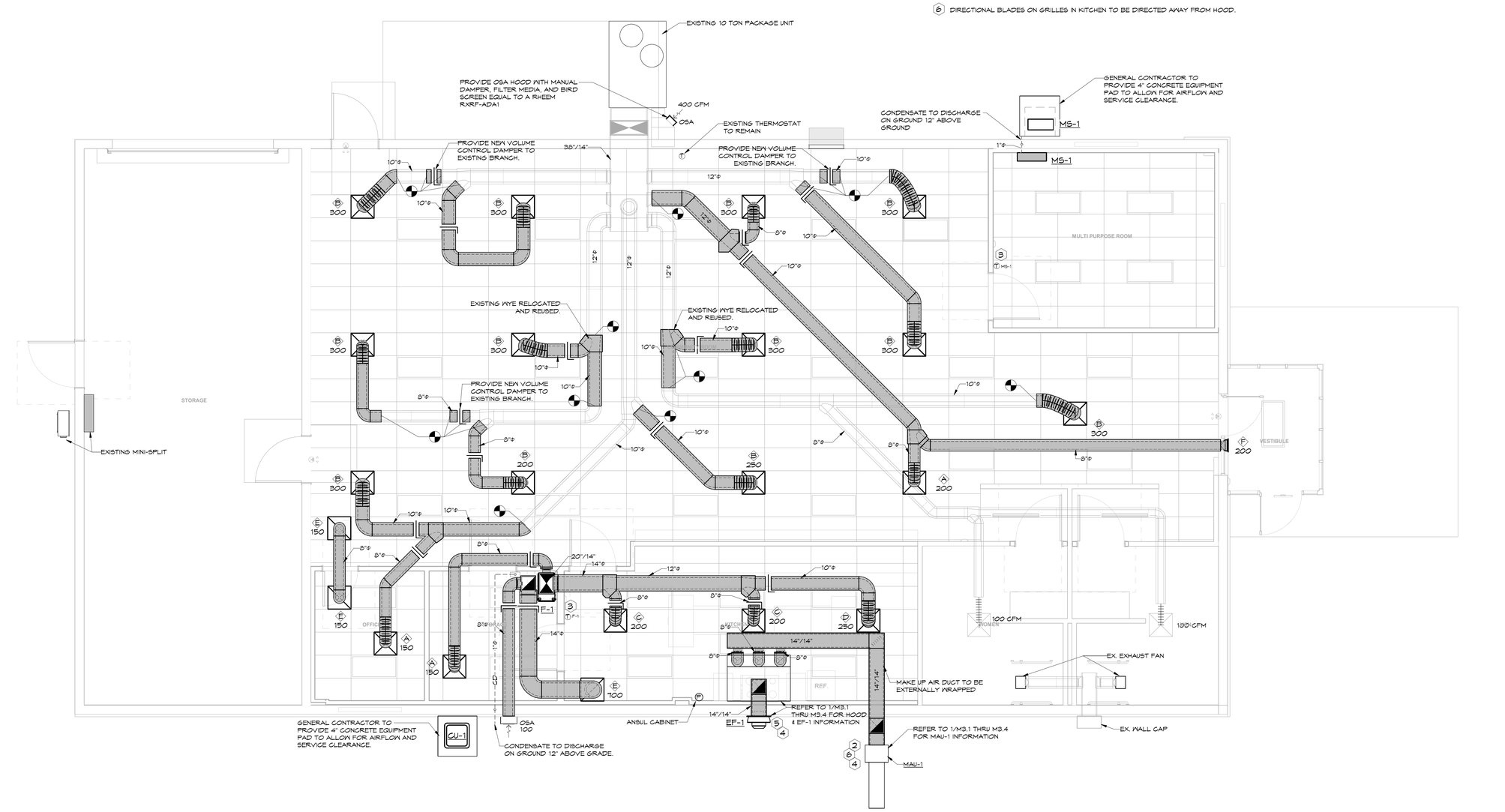
HVAC KEYED NOTES

1. SMOKE DETECTORS TO BE INSTALLED IN THE SUPPLY AND RETURN AIR DUCTS AND INTERLOCKED WITH AIR HANDLER FAN FOR SHUT-OFF PER N.F.P.A. 90 A & B ON ALL AIR HANDLERS GREATER THAN 2000 C.F.M. SUPPLY AIR DUCT SMOKE DETECTOR SHALL BE INSTALLED ON SUPPLY SIDE OF AIR HANDLING SYSTEM DOWN STREAM OF ANY AIR FILTERS AND PRIOR TO ANY BRANCH DUCT CONNECTIONS. EXCEPTION: THE SMOKE DETECTOR IN THE SUPPLY AIR STREAM MAY BE OMITTED IN SYSTEMS 2000 C.F.M. OR LESS. CAPACITY. RECIRCULATING AIR SYSTEMS WITH FAN CAPACITY LESS THAN 2000 C.F.M., BUT SERVING AREAS USED FOR EGRESS SHALL HAVE AUTOMATIC SMOKE DETECTION SHUTDOWN. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED BY (MECHANICAL CONTRACTOR) (FIRE ALARM CONTRACTOR). MECHANICAL CONTRACTOR SHALL WIRE SMOKE DETECTOR TO THE FAN SHUT OFF CONTACTS. MECHANICAL CONTRACTOR SHALL PROVIDE ALL ACCESSORIES REQUIRED TO MAKE THE FAN SHUT OFF CONNECTION. LOCATE SMOKE DETECTORS IN RETURN AIR DUCT PRIOR TO THE INTRODUCTION OF THE OUTSIDE AIR. (MECHANICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS COMPATIBLE WITH THE BUILDING'S EXISTING FIRE ALARM SYSTEM.)
2. MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
3. LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
4. MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
5. HOOD EXHAUST DUCT SHALL BE CONSTRUCTED OF AND SUPPORTED BY CARBON STEEL NOT LESS THAN 0.054 IN. (NO. 16 MSG) IN THICKNESS OR STAINLESS STEEL NOT LESS THAN 0.043 IN. (NO. 18 MSG) IN THICKNESS. ALL SEAMS, JOINTS, PENETRATIONS AND DUCT TO HOOD COLLAR CONNECTIONS SHALL HAVE A LIQUID TIGHT CONTINUOUS EXTERNAL WELD. ALL INSTALLATION AND FABRICATION SHALL CONFORM TO NFPA 96.
6. DIRECTIONAL BLADES ON GRILLES IN KITCHEN TO BE DIRECTED AWAY FROM HOOD.



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SHEET NUMBER: **M2.1**
SHEET TITLE: HVAC PLAN

FIRE SYSTEM INFORMATION - JOB#6702806

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0	20	18	WALL UTILITY CABINET LEFT	N/A

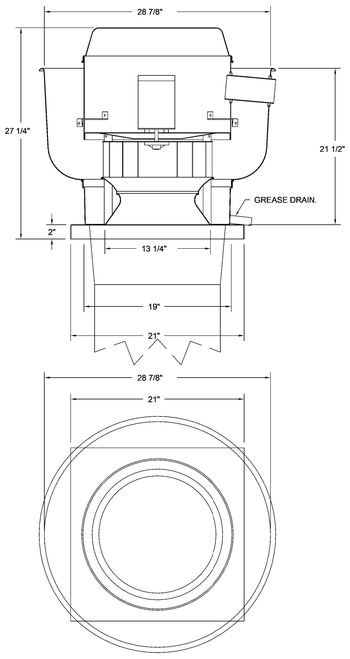
GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	2.000	ECON-AIR

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F.	1	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	1	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - SLPCON-20FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UPTO 19' GAP. KIT CONTAINS 22 FEET OF BLACK MG WIRE, 22 FEET OF TAN MG WIRE, 20 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - SLPCON-50FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN HOODS WITH UP TO 48' GAP. KIT CONTAINS 52 FEET OF BLACK MG WIRE, 52 FEET OF TAN MG WIRE, 50 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	3	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	1	0
		34 - 34 - A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

FAN #1 EADU50H - EXHAUST FAN (KEF-1)



TOP VIEW

FEATURES:

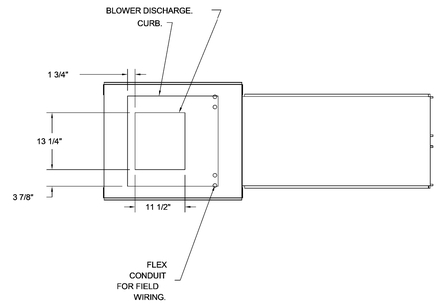
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S845
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

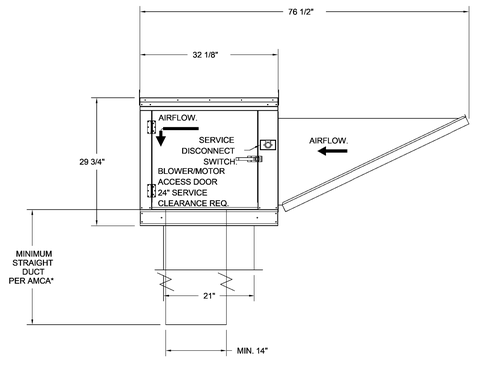
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR50HFA
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.





EXHAUST FAN INFORMATION - JOB#6702806

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	EADU50H	ECON-AIR	700	1.150	1512	TEAO-ECM	0.500	0.3480	1	115	6.3	266 FPM	79	15.8

MUA FAN INFORMATION - JOB#6702806

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	KSF-1	1	EA-A1-15D	15MF-1-MOD	A1	-	560	0.500	1057	TEAO-ECM	1.000	0.1520	1	115	11.6	14.5A	25A	266	8.3

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR50HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	ECM WIRING PACKAGE - EXHAUST - MODBUS CONTROL -MSC- (TELCO), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	KSF-1	1	SIZE 1 UNTEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	GRAVITY BACKDRAFT DAMPER FOR SIZE 1 HOUSING
		1	ECM WIRING PACKAGE - DD SUPPLY - MODBUS CONTROL-MSC- (TELCO)
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						
2	KSF-1					YES		

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	KEF-1	31 LBS	CURB	19.500"W X 19.500"L X 20.000"H 4.000:12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED.
2	# 2	KSF-1	29 LBS	CURB	21.000"W X 21.000"L X 14.000"H.

FAN #2 EA-A1-15D - SUPPLY FAN (KSF-1)
1. UNTEMPERED SUPPLY UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN IN SIZE #1 HOUSING.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 UNTEMPERED DIRECT DRIVE AHUS.
5. GRAVITY BACK DRAFT DAMPER, 16" WIDE X 18" HIGH, STANDARD GALVANIZED CONSTRUCTION, 1 1/4" REAR FLANGE, FOR SIZE 1 UNTEMPERED FAN HOUSING (5181).
6. ECM WIRING PACKAGE MODBUS CONTROL FOR SUPPLY EC MOTORS. MSC CONTROLLER. **DO NOT ORDER UNDER WARRANTY, SEE PART NUMBER "CAS MSC**".
7. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
8. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT.
SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

1 KITCHEN DETAIL 1
NTS

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

PROFESSIONAL SEAL:
LICENSED PROFESSIONAL ENGINEER — SCOTT ARCHER COOK — 22738 — OKLAHOMA — 08/16/2024

CONSULTANT LOGO:

CLIENT:

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **M3.1**
SHEET TITLE: HVAC DETAILS

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 24-056

FOR QUESTIONS, CALL THE
Arkansas Mechanical
REGION 146
PHONE: (501) 500 - 5450
EMAIL: reg146@econair.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#6702806

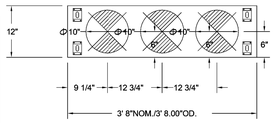
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	KH-1	3650 ELPX-2	ECON-AIR	3' 6"	600 DEG	I	HEAVY	200	700			4"	8"	700	2005	-0.774"	0	430 SS WHERE EXPOSED	ALONE	ALONE
2	PSP	126 MISC-PSP	ECON-AIR	3' 8"	300 DEG	I	N/A	0	0								560	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	KH-1	CAPTRATE SOLO FILTER	2	16"	20"	85% SEE FILTER SPEC	1	RECESSED ROUND	NO							YES	234 LBS
2	PSP						0									NO	67 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KH-1	FIELD WRAPPER 35.00" HIGH FRONT, LEFT, RIGHT.
		LEFT END STANDOFF(FIN/SLP) 1" WIDE 36" LONG INSULATED.
		RIGHT END STANDOFF(FIN/SLP) 1" WIDE 36" LONG INSULATED.
		RIGHT QUARTER END PANEL 26" TOP WIDTH, 0" BOTTOM WIDTH, 26" HIGH 430 SS.
		LEFT QUARTER END PANEL 26" TOP WIDTH, 0" BOTTOM WIDTH, 26" HIGH 430 SS.
		INSULATION FOR TOP OF HOOD.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
2	PSP	FIELD WRAPPER 35.00" HIGH FRONT, LEFT, RIGHT.



PLAN VIEW - HOOD #2 (PSP)
3' 8.00" LONG 126MISC-PSP

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
2	PSP	Front	44"	12"	6"	MUA			10"	186	0.066"
						MUA			10"	186	0.066"
						MUA			10"	186	0.066"

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	WEIGHT
1	WALL MNT	12"x36"x24"	TANK FS	4.0	SC-111110MA	1 LIGHT 1 FAN	240.00 LBS

GAS VALVES AND STRAINERS

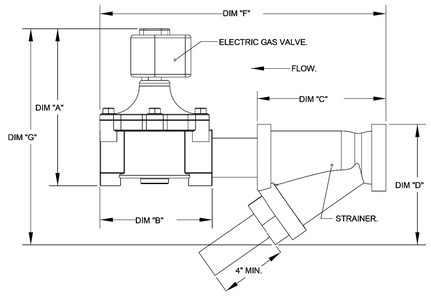
	GAS VALVE SIZING TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	GAS VALVE DIMENSIONS DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	INSTALLATION MOUNTING ORIENTATION	PART NUMBERS GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1 →	ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/ VERTICAL	8214280	4417K68	(SC)EGVA2

ALL GAS VALVES/STRAINERS

PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS

TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$ TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY) $^{0.5}$.



SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

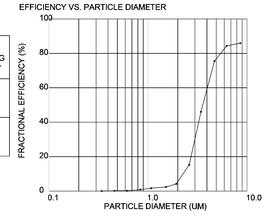
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

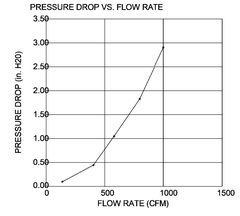
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

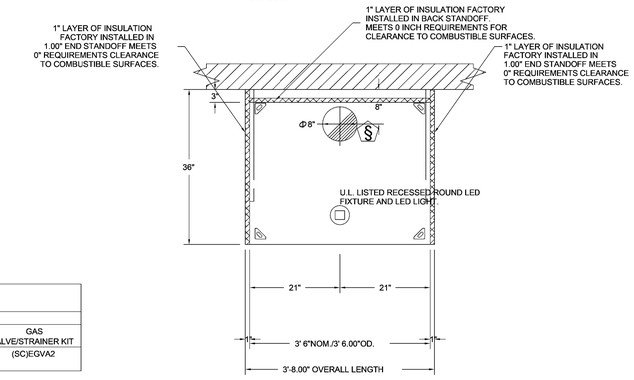
EFFICIENCY VS. PARTICLE DIAMETER



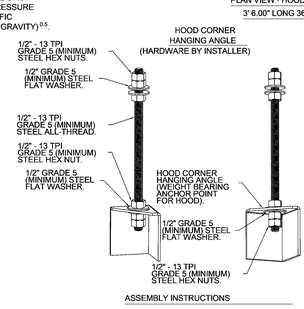
PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

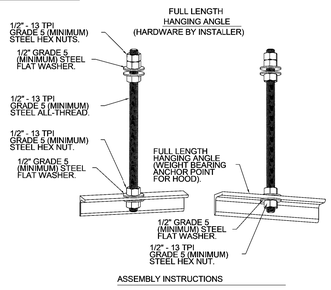


PLAN VIEW - HOOD #1 (KH-1)
3' 6.00" LONG 3650ELPX-2



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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1 KITCHEN DETAIL 2
NTS

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PROFESSIONAL SEAL:
JAMES R. SCOTT ARCHITECT 2738 REGISTERED PROFESSIONAL ARCHITECT OKLAHOMA
08/16/2024

CONSULTANT LOGO:

CLIENT:

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

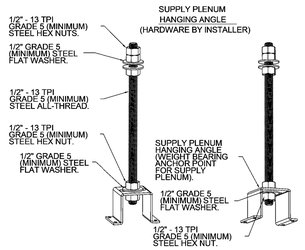
REVISIONS

#	DATE	DESCRIPTION

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 24-056

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: M3.2
SHEET TITLE: HVAC DETAILS



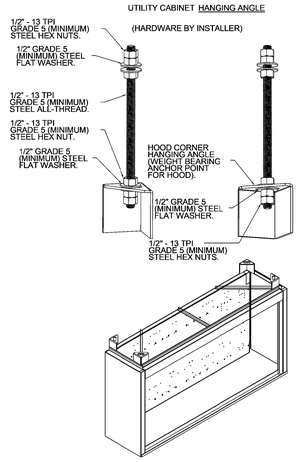
ASSEMBLY INSTRUCTIONS

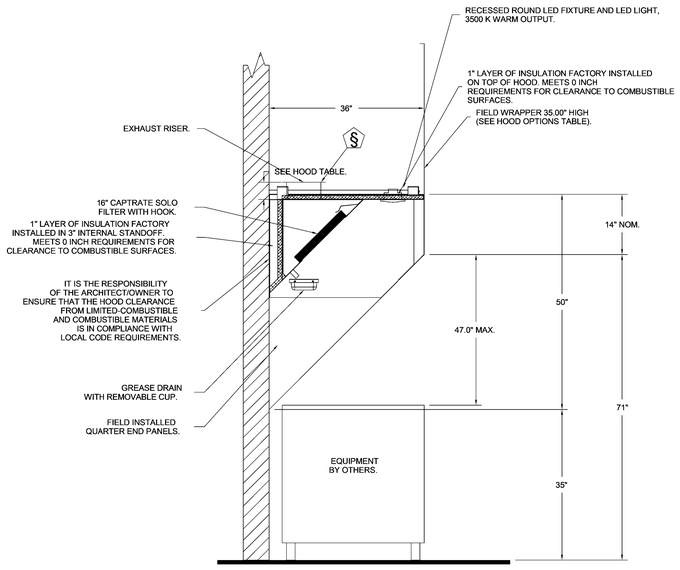
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

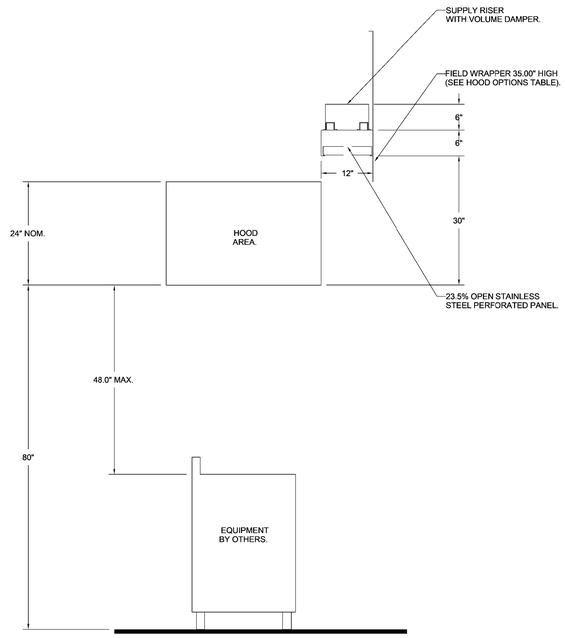
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CABINET TO BE HUNG BY HOOD INSTALLER. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.



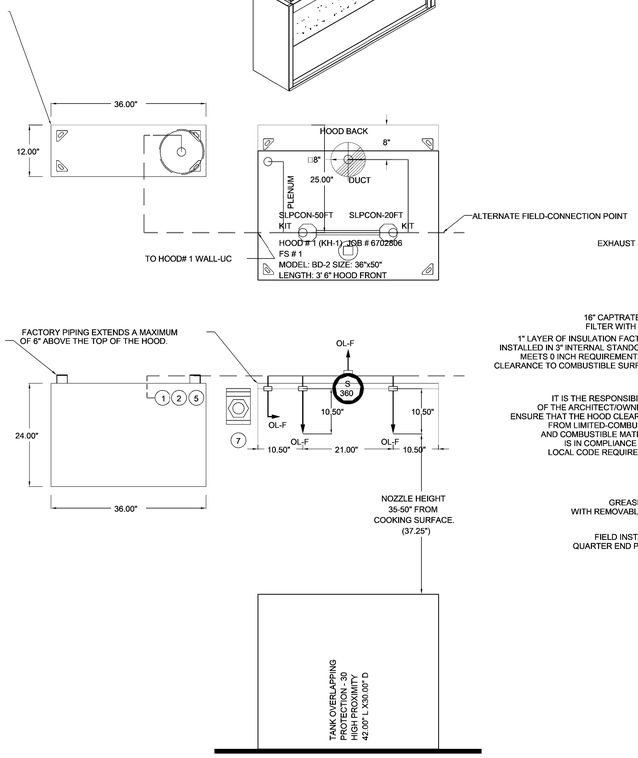


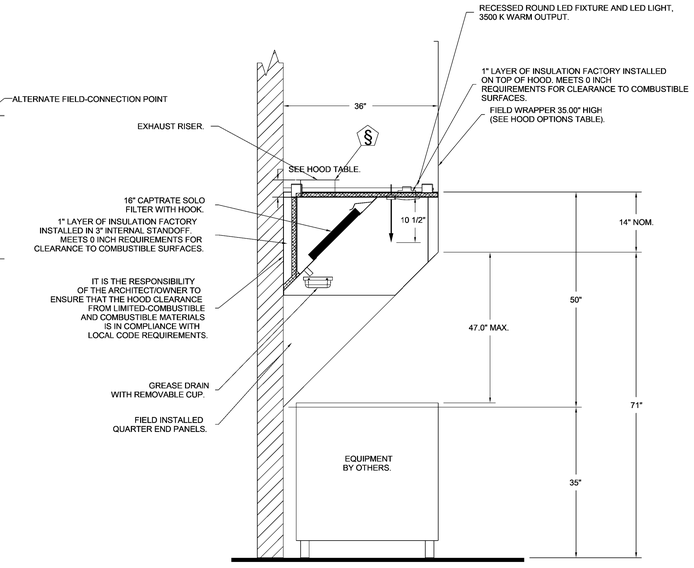
SECTION VIEW - MODEL 3650ELPX-2 HOOD - #1 (KH-1)



SECTION VIEW - MODEL 126MISC-PSP HOOD - #2 (PSP)

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS





SECTION VIEW - MODEL 3650ELPX-2 HOOD - #1

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 6702806.
JOB NAME: TAHLEQUAH YOUTH SHELTER.

SYSTEM SIZE: TANK-SP-1-WC DESIGN FP: 18. MAXIMUM FP: 20.
HOOD # 1 3' 6.00" LONG x 36" WIDE x 50" HIGH.
RISER # 1 SIZE: 8" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

1	4 GALLON TANK.
2	PRIMARY ACTUATOR RELEASE.
3	SECONDARY ACTUATOR RELEASE.
4	PRESSURE SUPERVISION SWITCH.
5	PRIMARY HOSE ASSEMBLY.
6	SECONDARY HOSE ASSEMBLY.
7	REMOTE MANUAL ACTUATION DEVICE.

1 KITCHEN DETAIL 3
NTS

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

PROFESSIONAL SEAL:
SCOTT ARCHER 22738 OKLAHOMA REGISTERED PROFESSIONAL ENGINEER
08/16/2024

CONSULTANT LOGO:

CLIENT:

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: M3.3
SHEET TITLE: HVAC DETAILS

HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

HSA JOB # 24-056

GREASE DUCT & CHIMNEY SPECIFICATIONS:

PROVIDE GREASE DUCT EQUAL TO ECON-AIR MODEL "EDW"

ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "EDW"

IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING

CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "EDW"

DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER

THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.

PER MANUFACTURES LISTING MODEL "EDW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE

SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".

DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE

ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE

UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY

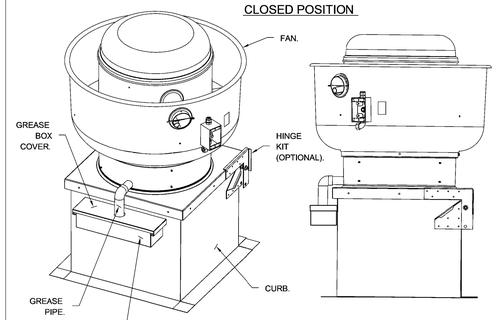
EQUAL TO ECON-AIR MODEL "EDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430

STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

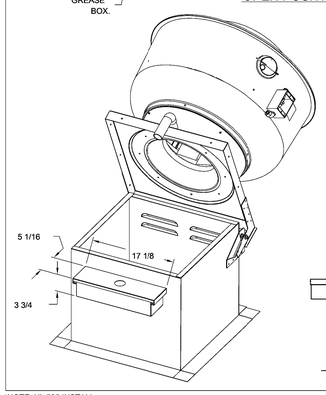
GREASEBOX
REV.#2 08/19/02

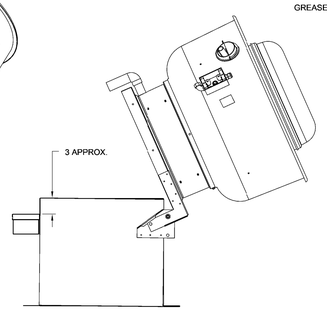
GREASE BOX INSTALLATION

CLOSED POSITION



OPEN POSITION





PARTS INCLUDED

GREASE BOX.
GREASE BOX COVER.
GREASE PIPE.

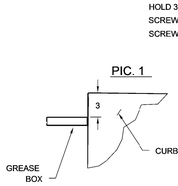
SHEET METAL SCREWS
3 - LONG (3/4" LG.).

GREASE BOX FIELD INSTALLATION

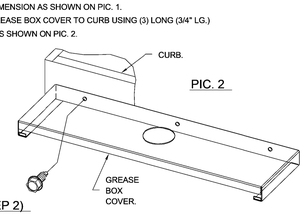
STEP 1)

ATTACH GREASE BOX COVER TO THE CURB,
HOLD 3" DIMENSION AS SHOWN ON PIC. 1.
SCREW GREASE BOX COVER TO CURB USING (3) LONG (3/4" LG.)
SCREWS AS SHOWN ON PIC. 2.

PIC. 1



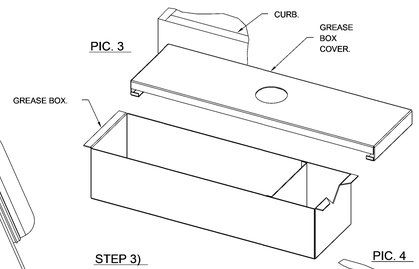
PIC. 2



STEP 2)

ATTACH GREASE BOX TO GREASE BOX COVER, SLIDE AND DROP.
AS SHOWN ON PIC. 3.

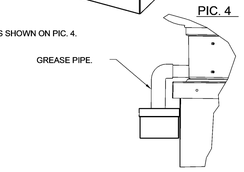
PIC. 3



STEP 3)

INSTALL GREASE PIPE AS SHOWN ON PIC. 4.

PIC. 4



*NOTE: UL 705 INSTALL.

1 KITCHEN DETAIL 4
NTS

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HSA JOB # 24-056

LEGEND

- DUPLEX RECEPTACLE (NEMA 5-20R) OR-DOUBLE DUPLEX. TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
- 220 VOLT RECEPTACLE (NUMBER DENOTES AMPS)
- DUPLEX RECEPTACLE GROUND FAULT NEMA 5-20R. TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
- FB — WIREMOLD TYPE "RFB6E-OG" FLOOR BOX WITH TWO DUPLEX RECEPTACLE, AND TWO COMMUNICATION BRACKETS TO MATCH OWNER'S DATA EQUIPMENT. INSTALL ONE 1" CONDUIT FOR POWER AND ONE 1" CONDUIT FOR DATA. INCLUDE ONE BRASS COVER, TYPE 8CT FLUSH COVER, AT EACH LOCATION. SET BOX HEIGHT WITH FLOOR TYPE. COVER IS TO BE FLUSH IN FLOOR. (FOR BARE/POLISHED CONCRETE FLOOR PROVIDE RFB6E CONCRETE EDGE BARRIER KIT).
- J — FLUSH MOUNTED JUNCTION BOX. VERIFY MOUNTING HEIGHT WITH MILLWORK DETAILS AND/OR THE OWNER'S REPRESENTATIVE. AT EQUIPMENT LOCATIONS VERIFY THE EXACT LOCATION WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- F / NF — FUSED/NON-FUSED DISCONNECT-FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION FOR THE ACTUAL EQUIPMENT FURNISHED. MOUNT DISCONNECT FOR HVAC CONDENSER UNITS WITH TOP OF SWITCH AT 36" A.F.F.
- COMBINATION MAGNETIC STARTER/FUSIBLE DISCONNECT SWITCH; FUSE PER EQUIPMENT FURNISHED.
- $M — MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING MEANS. SINGLE PHASE: PROVIDE WITH THERMAL OVERLOAD SIZED PER MOTOR LOAD.
- $GD — SINGLE POLE SWITCH FOR GARBAGE DISPOSER. WIRE RECEPTACLE TO SWITCHED UPPER HALF.
- $ — SWITCH TYPE 1221 ("3" INDICATES 3-WAY SWITCH, "D" INDICATES DIMMER COORDINATE WITH FIXTURE/LAMP TYPE AND CIRCUIT WATTAGE.
- $OS/D — WALL MOUNTED PASSIVE INFRARED COMBINATION MOTION SENSOR SWITCH AND SINGLE POLE WALLBOX SLIDE DIMMER. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS. LEVITON OSD10 OR EQUAL
- OS — "OS" - CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE. PROVIDE CONTACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
- EXIT LIGHT - ARROW DENOTES INCLUSION OF ARROW ON LENS. CONTRACTOR TO COORDINATE PROPER MOUNTING DETAILS.
- TC — TIME CLOCK: INTERMATIC #ET8215C FOR LIGHTING CONTROL APPLICATIONS. INTERMATIC #T2005 FOR CIRCULATION PUMPS.
- PE — PHOTO-ELECTRIC CELL: EQUAL TO INTERMATIC NO. K4136M.
- T F-1,2 — THERMOSTAT, MOUNT. @ 48" A.F.F TO CENTER OF BOX (NUMBER DENOTES HVAC UNIT).
- S CO2 — SENSOR, MOUNT @ 48" TO CENTER IN SEPARATE SINGLE GANG BOX.
- ELECTRICAL PANEL.
- BRANCH CIRCUIT HOMERUN. PANEL AND CIRCUIT NUMBER INDICATED.
- P — RANGE HOOD FIRE SUPPRESSION PULL STATION, PROVIDED BY THE FIRE SUPPRESSION SYSTEM INSTALLER/SUPPLIER.
- PUSH BUTTON FOR EMERGENCY SHUT OFF.
- X / Ex.x — DETAIL NUMBER / SHEET NUMBER

SUBSCRIPTS:
C = COORDINATE LOCATION WITH MILLWORK-MOUNTING HEIGHTS VARY. REFER TO THE ARCHITECTURAL MILLWORK DRAWINGS.
K = LOCATED IN KNEE SPACE; COORDINATE LOCATION WITH MILLWORK-MOUNTING HEIGHTS VARY. REFER TO THE ARCHITECTURAL MILLWORK DRAWINGS.
W = WALL MOUNTED @ 48" A.F.F.-OR AS SHOWN.
GFI = GROUND FAULT CIRCUIT INTERRUPTER.
WP = WEATHER RESISTANT RECEPTACLES ARE "GFI", WITH METAL WEATHER RESISTANT "WHILE-IN-USE" COVERS.
MW = MICROWAVE OVEN.
GD = GARBAGE DISPOSER.
EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.
NL = UNSWITCHED EMERGENCY FIXTURE.
H = MOUNT HORIZONTALLY IN MILLWORK.
EC = ELECTRICAL CONTRACTOR
AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
EWC = ELECTRIC WATER COOLER
EWH = ELECTRIC WATER HEATER
NTS = NOT TO SCALE

GENERAL ELECTRICAL NOTES-ALL SHEETS
THESE NOTES ARE ONLY A SUPPLEMENT TO THE SPECIFICATIONS

1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION.
2. THIS CONTRACTOR IS TO COMPLY WITH THE STATE ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
3. AT ALL MILLWORK LOCATIONS COORDINATE THE ELECTRICAL INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
4. PROVIDE FIRE RATED CAULKING WHERE CONDUIT OR OTHER ELECTRICAL ITEMS PASS THOUGH FIRE-RATED WALLS, CEILINGS AND FLOORS.
5. INSTALL ALL CONDUIT STRAIGHT AND PARALLEL WITH THE BUILDING LINES. ALL CONDUIT IS CONCEALED IN PUBLIC PLACES.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND FEE COSTS AND SHALL INCLUDE THESE COSTS IN THE BID PRICE FOR THIS PROJECT.
7. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IF A CONFLICT IS FOUND BETWEEN APPLICABLE CODES, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL APPLICABLE MUNICIPAL CODES AND ORDINANCES.
8. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE DRAWINGS, SPECIFICATION BOOK, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.
9. DO NOT SCALE DIRECTLY FROM THE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION.
10. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED. THIS CONTRACTOR GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.
11. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES WILL BE MADE WITH OUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER.
12. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL CIRCUITS AND DEVICES ARE OF A PROPER SIZE FOR ACTUAL EQUIPMENT FURNISHED. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT WHICH CAUSES CHANGES TO ANY SYSTEM AS DESIGNED ON THESE DRAWINGS. FAILURE ON THE PART OF THE CONTRACTOR TO NOTIFY THE ENGINEER OR ARCHITECT OF SUCH CONFLICTS PLACES THE SUBSEQUENT CHANGES UPON THE CONTRACTOR.
13. CONDUIT FOR FLOOR BOXES IS TO BE INSTALLED UNDER THE SLAB, UP INTO THE BOTTOM OF THE FLOOR BOX. NO CONDUIT IS TO BE INSTALLED IN THE SLAB.
14. WHEN INSTALLING POLE BASES OR UNDERGROUND UTILITIES, FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES. EXACT LOCATION OF POLE BASES AND CONDUIT TO BE DETERMINED IN THE FIELD.
15. THE ELECTRICAL CONTRACTOR IS TO PROVIDE, AT YET TO BE DECIDED LOCATIONS, TEN (10) CONDUIT STUB-UPS, WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, AND CONDUIT TO ABOVE THE CEILING, FIVE ONE GANG AND FIVE TWO GANG. IN ADDITION, PROVIDE FIFTEEN (15) SINGLE GANG STUB-UPS WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, INCLUDING ONE RECEPTACLE OR SWITCH WITH 50 FEET OF CIRCUIT WIRING PER SINGLE GANG STUB-UP. COMBINED TOTAL NUMBER OF STUB-UPS REQUIRED IS TWENTY FIVE (25).
16. ALLOW FOR THE ADDITION OF 2 (TWO) NEW EXIT LIGHTS WITH WIRING TO UNSWITCHED LIGHTING CIRCUIT.
17. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING SYSTEMS:

A. POWER AND LIGHTING
1. ALL DEVICE PLATES ARE MATCH EXISTING. COORDINATE COLOR OF DEVICES WITH THE ARCHITECT.
2. ALL 20A 120V AND 250V NON-LOCKING TYPE RECEPTACLES, UNLESS OTHERWISE NOTED, SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
3. WHERE DEVICES ARE SHOWN NEXT TO EACH OTHER, THEY ARE INTENDED TO BE GANGED. FIELD VERIFY ACTUAL SPACE AVAILABLE AND NOTIFY THE ARCHITECT WHERE THERE ARE SPACE CONFLICTS.
4. LOW VOLTAGE WIRING IS TO BE ENCASED IN CONDUIT IN AREAS WITH NO CEILING.
5. RECEPTACLES FOR EQUIPMENT SUCH AS ELECTRIC WATER COOLERS SHALL BE LOCATED IN THE WALL AT A LOCATION WHICH IS CONCEALED BY THE EQUIPMENT CABINET.
6. ALL EMPTY CONDUITS ARE TO CONTAIN A NYLON PULL STRING. EMPTY CONDUITS 2" AND LARGER ARE TO BE SWABBED OUT AND LEFT WITH A NYLON PULL ROPE FOR THE USE OF THE OWNER.
7. COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT AND THE ARCHITECTURAL DRAWINGS.
8. COVER PLATES FOR EXTERIOR RECEPTACLES ARE TO BE METAL, WEATHER PROOF WHILE IN USE.
9. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LAMP COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE DRIVER.
10. COORDINATE WITH THE GENERAL CONTRACTOR AND THE INSULATION CONTRACTOR TO HOLD THE BATT INSULATION AWAY FROM ALL LAY-IN FIXTURES. CLEARANCE SHOULD BE 3" ON ALL SIDES, AND TOTALLY CLEAR ON THE TOP.
11. ROOM NAMES AND NUMBERS USED IN THE PANEL SCHEDULES ARE TO REFLECT ROOM NUMBERS BY THE OWNER. ARCHITECT WILL PROVIDE CROSS OVER LIST DURING THE PROJECT.
12. OCCUPANCY SENSORS ARE TO BE LAID OUT BY THE LIGHTING REPRESENTATIVE FURNISHING THE EQUIPMENT HSA WILL PROVIDE AUTO CAD DRAWINGS AS NECESSARY. ELECTRICAL CONTRACTOR RESPONSIBLE FOR LOCATION DETAILS AND MOUNTING. SENSORS SHOWN ARE FOR REFERENCE ONLY.
13. FURNISH 2-4" CONDUITS SLEEVES THOUGH FIRE WALLS UNLESS OTHERWISE NOTED. SEAL PER RATING OF THE WALL.
14. WIRE SIZES:

WIRE SIZE 120V
A. #12 LESS THAN 75 FEET
B. #10 BETWEEN 75-150 FEET
C. #8 BETWEEN 150-250 FEET
D. #6 BETWEEN 250-375 FEET

B. FIRE ALARM:
1. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR BOXES AND CONDUIT ONLY.
2. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION .

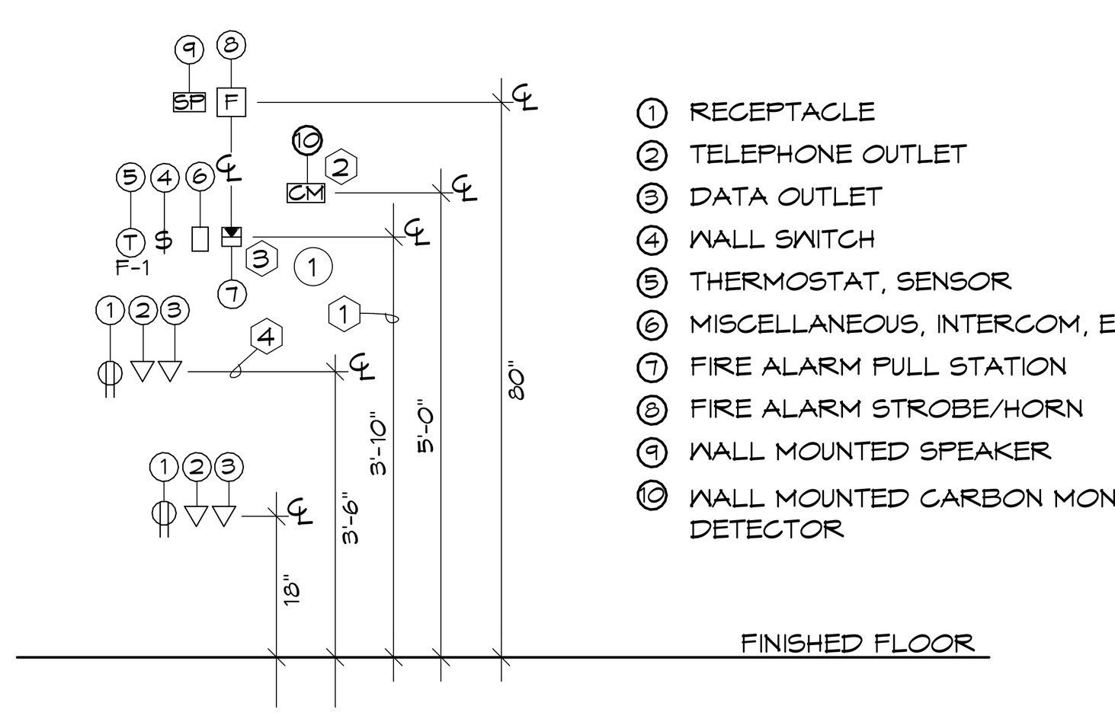
GENERAL ELECTRICAL NOTES
(CONTINUED.)

C. CONDUIT AND CABLE SYSTEM FOR TECHNOLOGY SYSTEM WIRING.
1. CONDUIT FOR TECHNOLOGY SYSTEM, TO INCLUDE SLEEVES IN FIRE WALLS.
2. DATA OUTLETS IN THE FLOOR REQUIRE 1" CONDUIT FROM EACH ONE TO A POINT ABOVE AN ACCESSIBLE CEILING. NO DAISY CHAINING OF DATA OUTLETS/CONDUITS IS ALLOWED.
3. CABLE IS NOT TO BE INSTALLED EXPOSED. VERIFY WITH MECHANICAL PLANS FOR PLENUM SPACES CABLE IN THESE AREAS IS PLENUM RATED.
4. ELECTRICAL CONTRACTOR IS TO PROVIDE BOXES AND CONDUIT ONLY.
5. REFER TO TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION.

G. GROUNDING SYSTEM
1. ALL CONDUITS ARE TO CONTAIN A GREEN GROUNDING CONDUCTOR, SIZED PER THE N.E.C.

H. EQUIPMENT REQUIREMENTS:
1. VERIFY EXACT FUSE SIZE AND EQUIPMENT REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED BY THE OTHER CONTRACTORS.
2. ALL HOT WATER CIRCULATION PUMPS ARE TO BE CONTROLLED VIA 7 DAY TIME CLOCKS PROVIDED BY THE MECHANICAL CONTRACTOR.
3. FINAL EQUIPMENT CONNECTIONS: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED ON THIS PROJECT. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZES, OVERCURRENT PROTECTION, PHASES, VOLTAGES, MOTOR ROTATION, ETC., WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER. FURNISH HARD WIRING FOR ALL WATER HEATERS AND CIRCULATION PUMPS.
4. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONTACTORS, MAGNETIC STARTERS, AND MISCELLANEOUS WIRING NECESSARY TO CONTROL EXHAUST FANS AND OTHER AUTOMATICALLY OPERATED EQUIPMENT. THE CONTROLS CONTRACTOR IS TO FURNISH ONE RELAY PER ITEM AS COMPATIBLE WITH THEIR CONTROL SYSTEM.

I. HVAC CONTROL:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM EACH HVAC UNIT TO ITS RESPECTIVE THERMOSTAT, HUMIDISTAT, AND/OR SENSOR, AS REQUIRED. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR LINE VOLTAGE CONTROL SYSTEMS.
3. ALL LOW VOLTAGE CONTROL WIRING SHALL BE ENCLOSED IN CONDUIT IN SPACES WITH NO CEILING
4. COORDINATE ALL HVAC WIRING WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
5. THE ELECTRICAL CONTRACTOR IS TO PROVIDE A MAGNETIC STARTER FOR EACH EXHAUST FAN. THIS STARTER IS CONTROLLED BY THE LIGHTING/MOTION SENSOR SYSTEM.
6. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL LINE VOLTAGE THERMOSTATS.



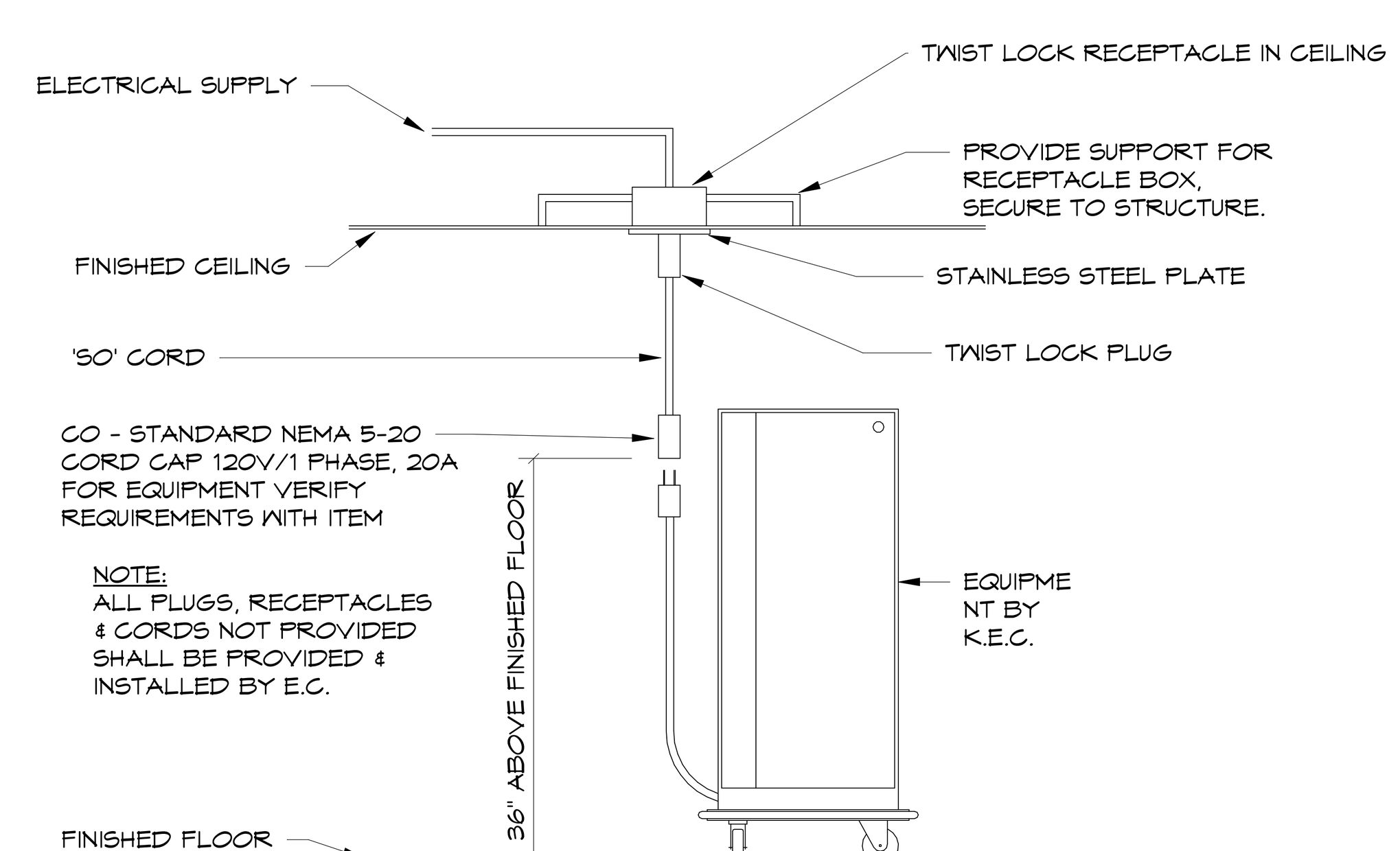
1. RECEPTACLE
2. TELEPHONE OUTLET
3. DATA OUTLET
4. WALL SWITCH
5. THERMOSTAT, SENSOR
6. MISCELLANEOUS, INTERCOM, ETC.
7. FIRE ALARM PULL STATION
8. FIRE ALARM STROBE/HORN
9. WALL MOUNTED SPEAKER
10. WALL MOUNTED CARBON MONOXIDE DETECTOR

MOUNTING HEIGHT KEYED NOTE:

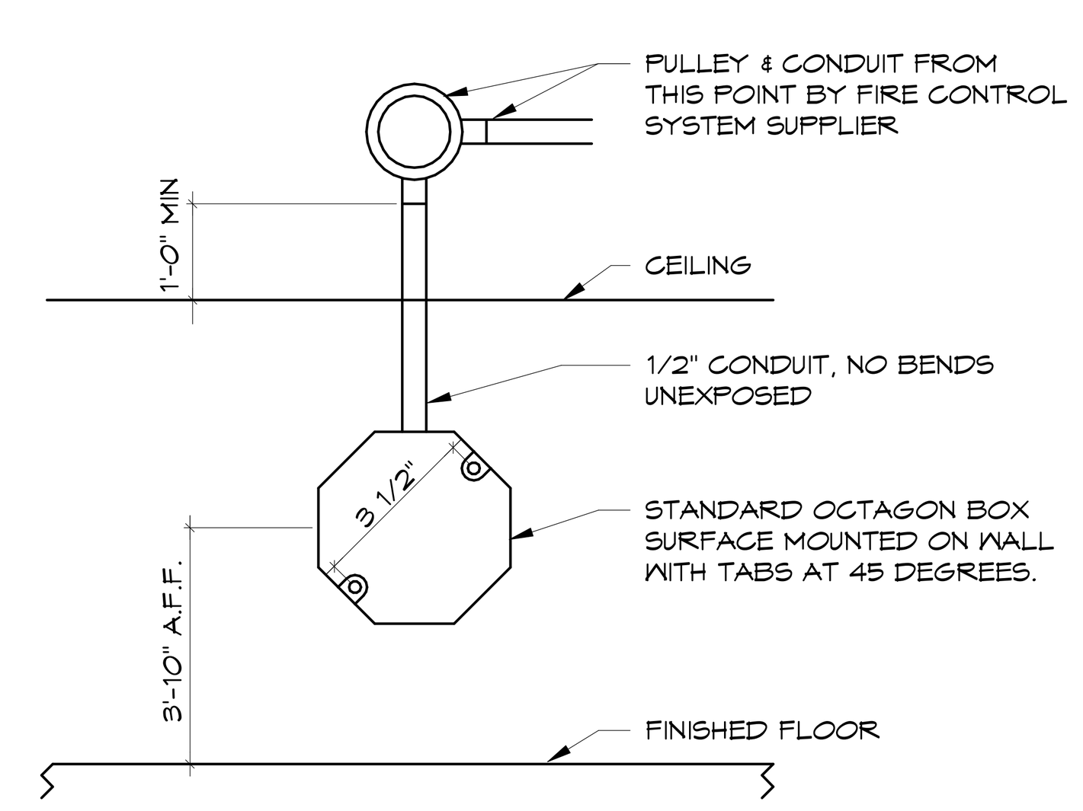
1. 4'-0" MAXIMUM TO TOP OF DEVICE UNLESS LOCATED ABOVE OBSTRUCTION (OR NOTED OTHERWISE) THEN MAXIMUM 4" ABOVE THE OBSTRUCTION. COORDINATE WITH MILLWORK.
2. MOUNT NEAR RETURN AIR GRILLE.
3. THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42" AND A MAXIMUM OF 48" MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.
4. ABOVE COUNTER MOUNTED DEVICES. INSTALL DEVICES ABOVE BACKSPLASH AND COORDINATED WITH MILLWORK. DATA/TELEPHONE DEVICES SHOWN ADJACENT TO ABOVE COUNTER RECEPTACLES TO BE TO BE MOUNTED AT SAME HEIGHT.

NOTE:
1. ALL DEVICES SHOWN MAY NOT BE USED.
2. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY.
3. DEVICES SHALL BE INSTALLED PLUMB, SQUARE AND TRUE.
4. ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED U.N.O.
5. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT.

1 MOUNTING HEIGHT DETAIL
N.T.S.



2 DROPCORD DETAIL
1/8" = 1'-0"



3 REMOTE RELEASE DETAIL
1/8" = 1'-0"

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PROFESSIONAL SEAL: LICENSED PROFESSIONAL ENGINEER Michael Todd Rappold 30884 OKLAHOMA 8-16-2024

CONSULTANT LOGO:

CLIENT:

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE: 100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: E1.1
SHEET TITLE: ELECTRICAL LEGEND, NOTES & DETAILS

HSA Engineering
479 / 452 / 8922 office
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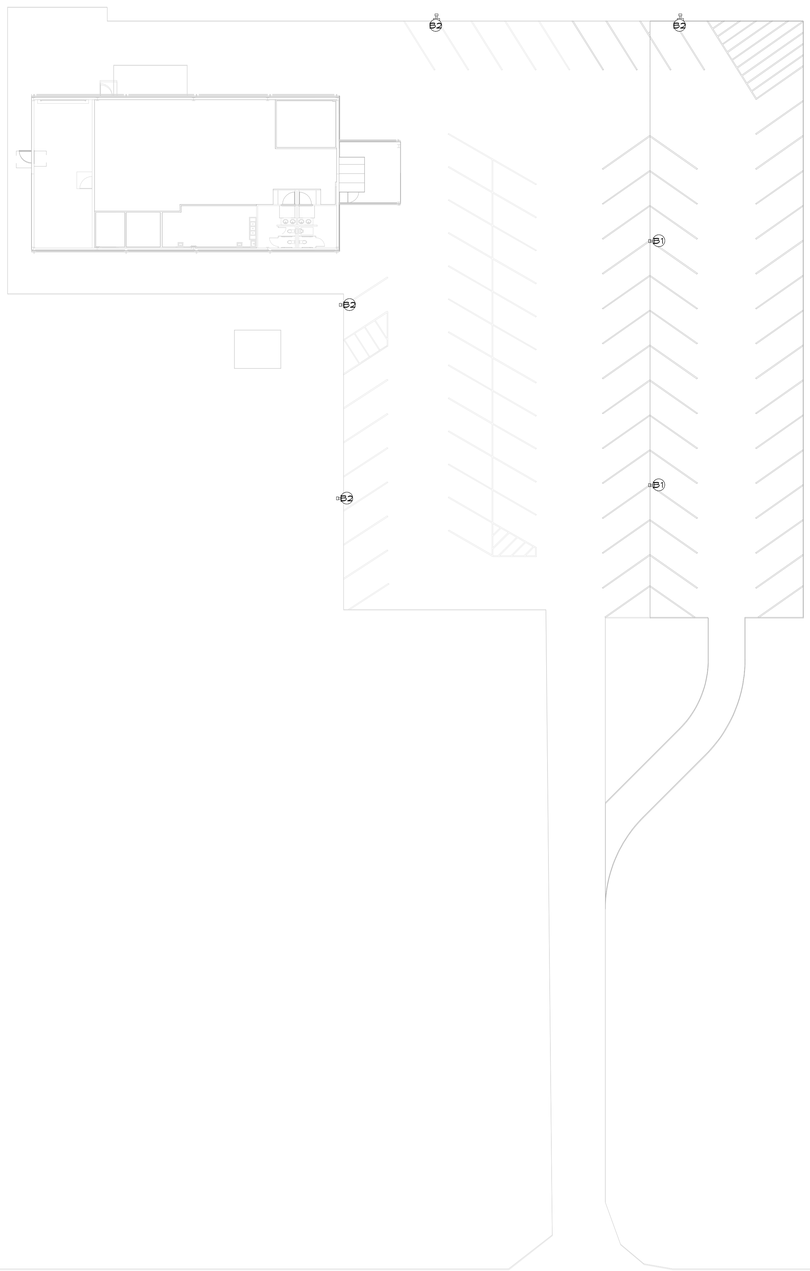

1 ELECTRICAL SITE PLAN
1" = 20'-0"

NORTH

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DATE: 8/16/2024
SHEET NUMBER: **ES1.0**
SHEET TITLE: ELECTRICAL SITE PLAN

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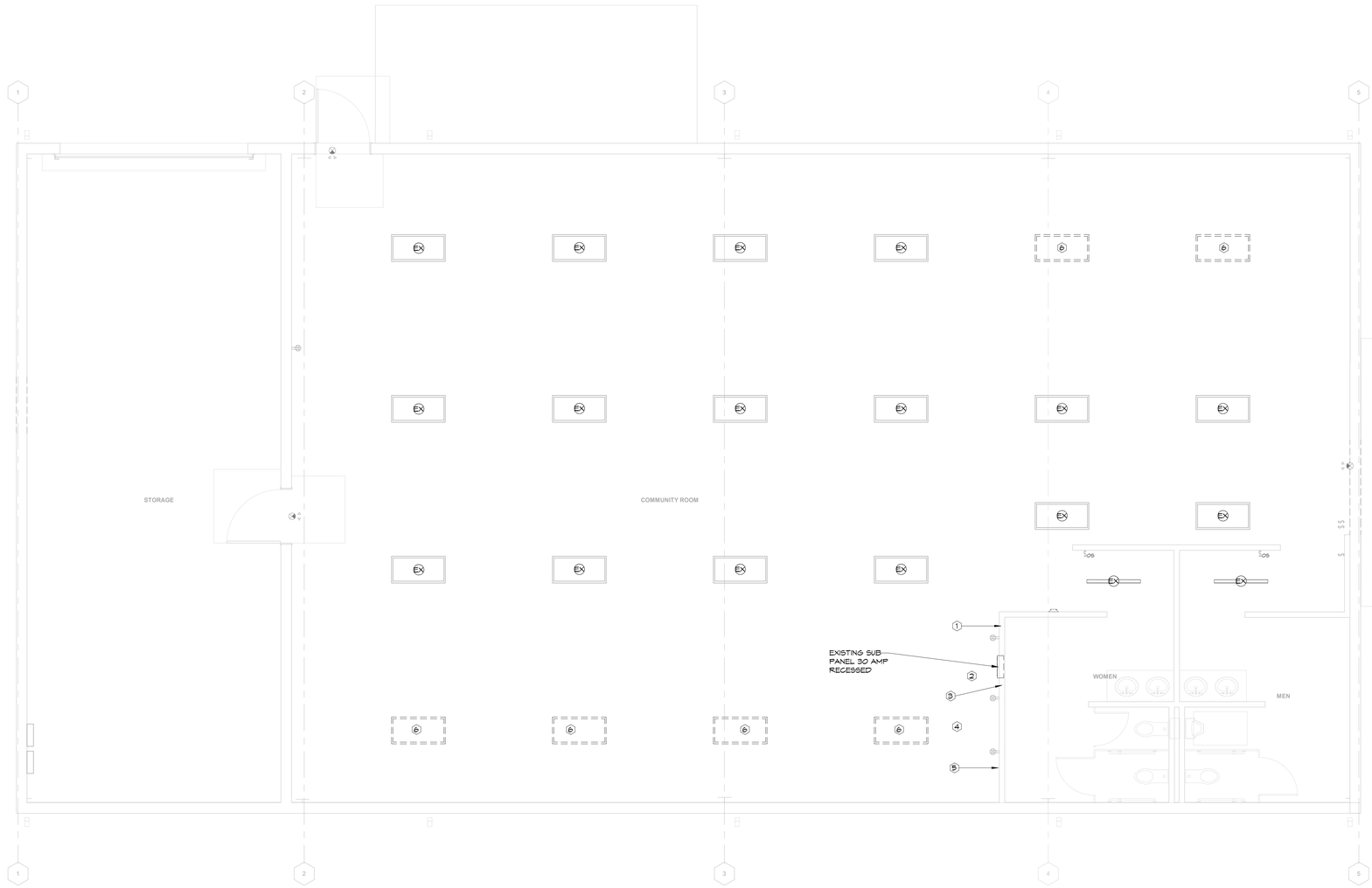
3" = 1'-0"
1 1/2" = 1'-0"
1" = 1'-0"
3/4" = 1'-0"
1/2" = 1'-0"
3/8" = 1'-0"
1/4" = 1'-0"
1/8" = 1'-0"

ELECTRICAL DOMO GENERAL NOTES

1. FOR ALL DEVICES IN WALLS/MILLWORK BEING DEMOLISHED: DISCONNECT REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT. MAINTAIN CONTINUITY TO REMAINING DEVICES ON THAT CIRCUIT.
2. REMOVE ALL DEVICES IN CEILINGS THAT ARE TO BE DEMOLISHED: DISCONNECT AND REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
3. FOR ALL UNUSED CIRCUITS, REMOVE CONDUIT AND WIRE BACK TO SOURCE, LABEL BREAKER AS SPARE.
4. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS TO BE DEMOLISHED
5. REMOVE POWER TO ALL EXISTING EQUIPMENT TO BE DEMOLISHED, COORDINATE WITH ALL TRADES.
6. FIELD VERIFY ALL EXISTING CONDITIONS.
7. ALL EXISITNG CHAIN HUNG LIGHT FIXTURES TO BE INSTALLED IN NEW LAY-IN CEILING. PROVIDE NEW WHIP AS NEEDED.
8. GRAYED OUT DEVICES SHOW EXISTING TO REMAIN DEVICE LOCATIONS. ALL EXISTING DEVICES ARE TO BE REPLACED.
9. DEVICES SHOWN AS BOLD OR DASHED ARE TO BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED.

DEMO KEYED NOTES

1. RELOCATE EXISTING NETWORK RACK TO NEW OFFICE WALL. EXTEND WIRE TO NEW LOCATION. REFER TO POWER PLAN FOR NEW LOCATON.
2. RELOCATE EXISTING SUB PANEL TO NEW STORAGE ROOM WALL. EXTEND CONDUIT AND WIRE BACK TO NEW LOCATION. FIELD VERIFY EXISTING CONDITIONS. REFER TO POWER PLAN FOR NEW LOCATION.
3. RELOCATE EXISTING WIFI TO NEW OFFICE WALL. EXTEND WIRE TO NEW LOCATION. REFER TO POWER PLAN FOR NEW LOCATON.
4. RELOCATE EXISTING WATER HEATER TO NEW OFFICE EXTEND WIRE TO NEW LOCATION. REFER TO POWER PLAN FOR NEW LOCATON.
4. RELOCATE EXISTING CABLE TV SERVICE TO NEW OFFICE WALL. EXTEND WIRE TO NEW LOCATION. REFER TO POWER PLAN FOR NEW LOCATON.
6. EXISTING LIGHT FIXTURE TO BE RELOCATED REFER TO LIGHTING PLAN FOR NEW LOCATION. REMOVE CONDUIT AND WIRE BACK TO JUNCTION POINT.



1 ELECTRICAL DEMO PLAN
1/4" = 1'-0"

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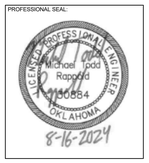

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KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **E2.0**
SHEET TITLE: ELECTRICAL DEMO PLAN

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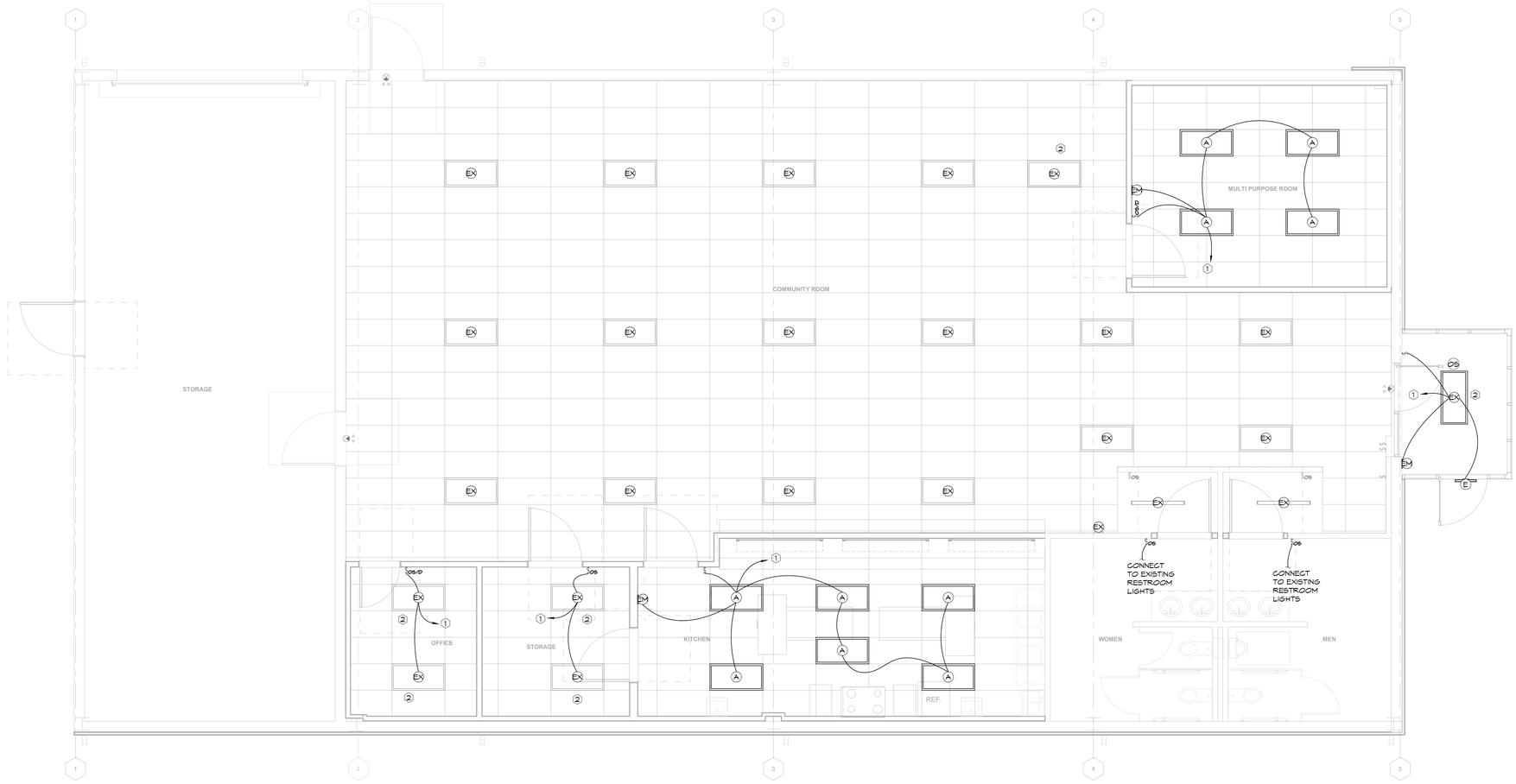
LIGHTING FIXTURE SCHEDULE

MARK	VOLT	WATTS	LAMP		MOUNTING				MANUFACTURER	CATALOG NO.	REMARKS
			COLOR	TYPE	BRKT	PEND	REC	SURF			
A	120	48 VA	4000K	LED			X		LITHONIA	CPX-2X4-ALO8-80CRI-SWWT-A12-MVOLT	2X4 LENSED TROFFER
B1		0 VA	4000K	LED					SOL SUNNA DESIGN	EVERGEN-BZ-2-170-3-GEL5-HIGH-N-30-1-DSXO-5ME-40K-BZ-ST BTD-25-90-INTDIRECTA-64-5D2-81555	SOLAR POWER POLE LIGHT PROVIDE 25' POLE. PROVIDE CONCRETE BASE PER REFER TO STRUCTURA DRAWINGS FOR DETAILSL.
B2		0 VA	4000K	LED					SOL SUNNA DESIGN	EVERGEN-BZ-2-170-3-GEL5-HIGH-N-30-1-DSXO-4ME-40K-BZ-ST BTD-25-90-INTDIRECTA-64-5D2-81555	SOLAR POWER POLE LIGHT PROVIDE 25' POLE. PROVIDE CONCRETE BASE PER REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
E	120	20 VA		LED				X	MULE	EEU-BB-20-CTB5-MULLION	EXTERIOR MULLION MOUNT EMERGENCY EGRESS LIGHT. CENTER OVER DOOR.
EM	120	10 VA		LED				X	LITHONIA	ELM4L	WALL MOUNT BUGEYE MOUNT BOTTOM OF FIXTURE 7'-0" AFF
EX		-	-						-	EXISTING TO REMAIN	-

NOTE : HOLD ALL INSULATION OFF RECESSED FIXTURES AT A MINIMUM OF 3" TO THE SIDE.
NOTE : EXIT LIGHTS AND EMERGENCY LIGHTS REQUIRES UNSWITCHED HOT WIRE PER MANUFACTURER RECOMMENDATION.
NOTE : FIXTURES MARKED AS 'CTB5' REQUIRE STANDARD FINISHED SELECTED BY THE ARCHITECT.
NOTE : FOR ALL FIXTURES WITH 0-10V DIMMING, PROVIDE LOW VOLTAGE CABLE.
NOTE : FIXTURES MARKED NL REQUIRE UNSWITCHED HOT WIRE.
NOTE : ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LED AND DRIVER COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE FIXTURE.
NOTE : EM FIXTURES REQUIRE EMERGENCY BATTERY PACKS.
NOTE : FIELD VERIFY ALL FIXTURE LENGTHS NOTES AS LENGTH PER PLANS. PROVIDE CONTINUOUS RUNS OF FIXTURES. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND THE ARCHITECT.

KEYED LIGHTING NOTES

1. CONNECT TO EXISTING LIGHTING CIRCUIT. REQUIRES 2-#10, 1-#10 GRD 3/4" CONDUIT.
2. NEW LOCATION FOR EXISTING LIGHT.



1 LIGHTING PLAN
1/4" = 1'-0"

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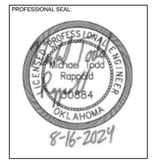

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WCCA - REMODEL AND SITE IMPROVEMENTS
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KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS		
#	DATE	DESCRIPTION

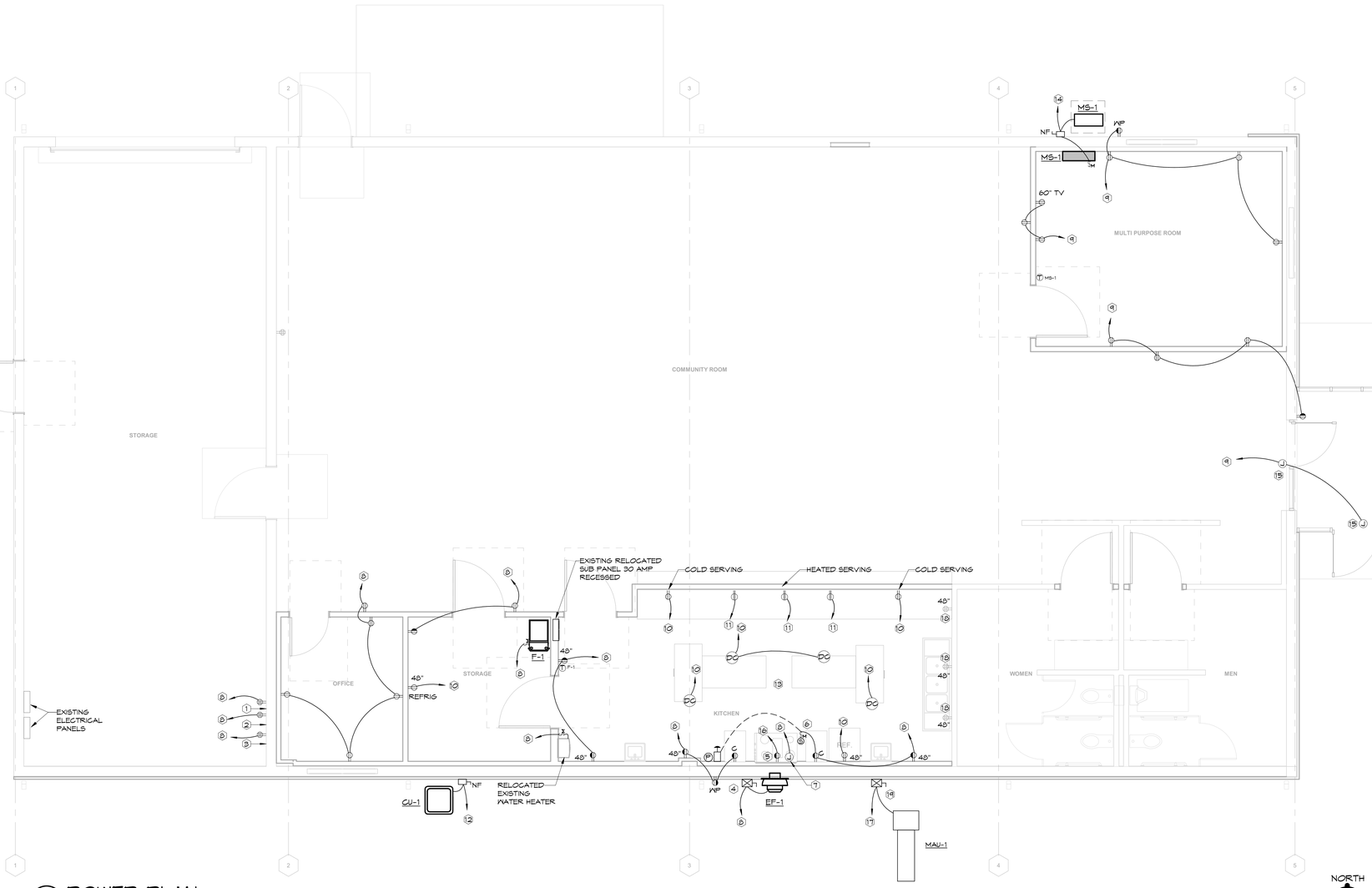
JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **E2.1**
SHEET TITLE: LIGHTING PLAN

POWER PLAN GENERAL NOTES:

1. REFER TO FIRE ALARM AND PROTECTION DRAWINGS FOR ALL FIRE ALARM DEVICE LOCATIONS AND ADDITIONAL REQUIREMENTS.
2. REFER TECHNOLOGY DRAWINGS FOR ALL NETWORK, AV, INTERCOM, SEGURITY, CCTV, ACCESS CONTROL, ETC DEVICE LOCATIONS AND ADDITIONAL REQUIREMENTS.
3. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND BOXES FOR FIRE ALARM, NETWORK, AV, INTERCOM, SECURITY, CCTV, ACCESS CONTROL, ETC.
4. REFER TO FOODSERVICE DESIGN DRAWING FOR EXACT KITCHEN DEVICE AND EQUIPMENT LOCATIONS AND ADDITIONAL REQUIREMENTS.
5. EC TO PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT ITEMS PER LOCAL, STATE AND NATIONAL ELECTRICAL AND BUILDING CODES.
6. EC TO VERIFY REQUIREMENTS OF ALL KITCHEN EQUIPMENT ITEMS PROVIDED BY OTHERS AND/OR EXISTING BEFORE ROUGHING IN AND MAKING FINAL CONNECTIONS.
7. EC TO SIZE ALL CONDUIT, JUNCTION BOXES, PULL BOXES, AND DISCONNECT SWITCHES PER LOCAL, STATE AND NATIONAL ELECTRICAL AND BUILDING CODES.
8. EC TO FURNISH AND INSTALL ALL MAGNETIC STARTERS, THERMAL OVERLOAD PROTECTION CONTACTORS AND DISCONNECT SWITCHES ON ALL MOTORS AND ELEMENTS PER LOCAL, STATE AND NATIONAL ELECTRICAL AND BUILDING CODES.
9. EC TO WIRE, FURNISH AND INSTALL CONDUIT TO RECEPTACLE JUNCTION BOX AND/OR DISCONNECT SWITCH FIRE MOUNTED ON KITCHEN EQUIPMENT
10. EC TO FURNISH AND INSTALL ALL CORDS AND PLUGS NOT SUPPLIED WITH KITCHEN EQUIPMENT, CORDS NOT TO TOUCH THE FLOOR.
11. EC TO INTER CONNECT ALL FIELD AND CONTROL WIRING
12. LOADS SHOWN ARE KITCHEN EQUIPMENT LOADS ONLY.
13. EC TO FURNISH AND INSTALL SHUNT TRIP BREAKERS REQUIRED FOR THE SHUTOFF OF POWER TO COOKING EQUIPMENT AND INNER WIRE WITH THE FIRE CONTROL SYSTEM.
14. EC TO INNER CONNECT FIRE CONTROL SYSTEM WITH BUILDING ALARM SYSTEM.
15. EC TO FURNISH AND INSTALL ALL CONTROL WIRING FOR FANS, DISPOSERS, ETC
16. ALL SINGLE PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 50A OR LESS AND THREE PHASE RECEPTACLES RATED 150V TO GROUND OR LESS, 100A OR LESS IN KITCHEN ARE TO BE GFCI PROTECTED.

POWER PLAN KEYED NOTES:

1. NEW LOCATION FOR EXISTING NETWORK RACK.
2. NEW LOCATION FOR EXISTING WIFI.
3. NEW LOCATION FOR EXISTING CABLE TV SERVICE.
4. INTERLOCK KITCHEN EXHAUST FAN WITH KITCHEN HOOD. ROUTE CIRCUIT THRU KITCHEN HOOD CONTROL PANEL. REFER TO MECHANICAL HOOD DETAIL.
5. INTERCONNECT THE SHUNT TRIP BREAKERS FEEDING CIRCUITS UNDER THE HOOD WITH THE FIRE SUPPRESSION SYSTEM. INTERCONNECT FIRE SUPPRESSION SYSTEM WITH THE BUILDING'S FIRE ALARM SYSTEM. PROVIDE ALL REQUIRED HARDWARE.
6. GAS SOLENOID VALVE TO BE CONTROLLED BY THE HOOD FULL STATION. PROVIDE ALL WIRING AND FINAL CONNECTIONS. COORDINATE WITH PLUMBINGCONTRACTOR. CONNECT TO NEAREST 120V CKT.
7. POWER FOR HOOD UTILITY CABINET. VERIFY REQUIREMENTS WITH THE HOOD PROVIDED. PROVIDE ALL CONTROL WIRING FOR KITCHEN EXHAUST FANS AND MAKE UP AIR FAN AS REQUIRED. COORDINATE WITH THE MECHANICAL CONTRACTOR. EXHAUST FANS TO CONTINUE RUNNING DURING FIRE ALARM SHUTDOWN.
8. CIRCUIT FROM EXISTING PANEL REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. PROVIDE NEW 20 AMP SINGLE POLE BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
9. CIRCUIT FROM EXISTING PANEL REQUIRES 2-#10, 1-#10 GRD, 3/4" CONDUIT. PROVIDE NEW 20 AMP SINGLE POLE BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
10. CIRCUIT FROM EXISTING PANEL REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. PROVIDE NEW 20 AMP SINGLE POLE GFI BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
11. CIRCUIT FROM EXISTING PANEL REQUIRES 3-#12, 1-#12 GRD, 3/4" CONDUIT. PROVIDE NEW 20 AMP TWO POLE GFI BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
12. CIRCUIT FROM EXISTING PANEL REQUIRES 3-#12, 1-#12 GRD, 3/4" CONDUIT. PROVIDE NEW 20 AMP TWO POLE BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
13. VERIFY EXACT REQUIREMENTS FOR KITCHEN WITH PROVIDER/INSTALLER PRIOR TO ROUGH-IN PROVIDE ALL BACK BOXES, WIRE AND CONDUIT.
14. CIRCUIT FROM EXISTING PANEL REQUIRES 3-#10, 1-#10 GRD, 3/4" CONDUIT. PROVIDE NEW 25 AMP TWO POLE BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
15. VERIFY EXACT REQUIREMENTS FOR POWERDED DOOR WITH SUPPLIER/INSTALLER PRIOR TO ROUGH-IN.
16. CIRCUIT FROM EXISTING PANEL REQUIRES 2-#12, 1-#12 GRD, 3/4" CONDUIT. PROVIDE NEW 20 AMP SINGLE POLE SHUNT TRIP BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
17. CIRCUIT FROM EXISTING PANEL REQUIRES 3-#10, 1-#10 GRD, 3/4" CONDUIT. PROVIDE NEW 30 AMP SINGLE POLE SHUNT TRIP BREAKER TO MATCH EXISTING PANEL. FIELD VERIFY EXISTING CONDITIONS.
18. REPLACE EXISITNG QUAD RECEPTACLE WITH NEW GFI TYPE RECEPTCALE.
19. MAKE UP AIR UNIT TO BE CONTROLLED BY KITCHEN HOOD. ROUTE WIRING THRU HOOD CONTROL PANEL. REFER TO MECHANICAL HOOD DETAILS.



1 POWER PLAN
1/4" = 1'-0"

NORTH

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KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **E2.2**
SHEET TITLE: POWER PLAN

AC -	ACCESS CONTROL
AFF -	ABOVE FINISHED FLOOR
AHJ -	AUTHORITY HAVING JURISDICTION
AV -	AUDIO AND VIDEO
BBC -	BACKBONE BONDING CONDUCTOR
BICSI -	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
C -	CONDUIT
CD -	CONSTRUCTION DOCUMENTS
CCTV -	CLOSED CIRCUIT TELEVISION
CO -	CONDUIT ONLY (EMPTY CONDUIT WITH MULE TAPE)
CP -	CONTROL PANEL
CU -	COPPER
DR -	DOOR RELEASE
EC -	ELECTRICAL CONTRACTOR
EF -	ENTRANCE FACILITY
EL -	EMERGENCY LOCK DOWN
EP -	ENTRANCE POINT
EPT -	ELECTRONIC POWER TRANSFER
ESS -	ELECTRONIC SAFETY AND SECURITY
FBO -	FURNISHED BY OTHERS
FCC -	FEDERAL COMMUNICATIONS COMMISSION
GND -	GROUND
HC -	HORIZONTAL CROSS-CONNECT
HR -	HOME RUN
HVAC -	HEATING, VENTILATION, AND AIR CONDITIONING
IBO -	INSTALLED BY OTHERS
IDF -	INTERMEDIATE DISTRIBUTION FRAME
IEEE -	THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
ISP -	INTERNET SERVICE PROVIDER
JB -	JUNCTION BOX
LV -	LOW VOLTAGE
MB -	MARKER BOARD
MC -	MAIN CROSS- CONNECT
MDF -	MAIN DISTRIBUTION FRAME
MH -	MANHOLE
MIC -	MICROPHONE
MMF -	MULTI-MODE FIBER
MD -	MOTION DETECTOR
MPOE -	MAIN POINT OF ENTRY
NEC -	NATIONAL ELECTRICAL CODE
NEMA -	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NIC -	NOT IN CONTRACT
NTS -	NOT TO SCALE
OC -	ON CENTER
PB -	PULL BOX
PBB -	PRIMARY BONDING BUSBAR
PM -	PROJECTOR MOUNT
PNL -	PANEL
POC -	POINT OF CONTACT
POE -	POWER OVER ETHERNET
POS -	POINT OF SALE
PP -	PATCH PANEL
RCP -	REFLECTED CEILING PLAN
RFI -	REQUEST FOR INFORMATION
RFP -	REQUEST FOR PROPOSAL
RMU -	RACK MOUNT UNIT
SBB -	SECONDARY BONDING BUSBAR
SMF -	SINGLE MODE FIBER
SMR -	SURFACE MOUNTED RACEWAY
SW -	SWITCH
TBC -	TELECOMMUNICATION BONDING CONDUCTOR
TE -	TELECOMMUNICATIONS ENCLOSURE
TIA -	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TYP -	TYPICAL
UG -	UNDERGROUND
UL -	UNDERWRITERS LABORATORIES INC
UNO -	UNLESS NOTED OTHERWISE
UPS -	UNINTERRUPTIBLE POWER SUPPLY
USB -	UNIVERSAL SERIAL BUS
VC -	VOLUME CONTROL
VP -	VIDEO PROJECTOR
WAP -	WIRELESS ACCESS POINT
WP -	WEATHER PROOF

PROJECT ACRONYMS

01. ANY DIMENSIONS SHOWN ON THESE DRAWINGS ARE INTENDED TO PROVIDE A GENERAL LOCATION AS REQUESTED BY THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS PRIOR TO ROUGH-IN AND IMMEDIATELY REPORT ANY CONFLICTS WITH THE OUTLET PLACEMENT TO THE GENERAL CONTRACTOR.

02. ALL CABLE BUNDLES WILL BE SUPPORTED EVERY 48"-60" OC WITH A J-HOOK OR OTHER APPROVED PATHWAY DEVICE. REFERENCE SPECIFICATIONS AND DETAILS FOR ADDITIONAL CABLING PATHWAY INSTALLATION REQUIREMENTS. CONTRACTOR WHO VIOLATES THESE REQUIREMENTS WILL BE REQUIRED TO REPLACE THE AFFECTED CABLE PLANT AT THEIR EXPENSE.

03. PLASTIC TIE WRAPS ARE NOT PERMITTED AT ANY TIME ON THIS INSTALLATION. ALL CABLE ROUGH-IN AND DRESS-OUT WILL BE WITH VELCRO ONLY. ALL CABLES BUNDLED WITH PLASTIC TIE WRAPS SHALL BE IMMEDIATELY REPLACED AT THE CONTRACTOR'S EXPENSE.

04. DO NOT INSTALL ANY CABLES IN ANY CONDUIT SLEEVE, STUB UP, OR WALL CAP WITHOUT A PROTECTIVE BUSHING. CABLES PULLED INTO UNPROTECTED CONDUITS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE. DO NOT INSTALL ANY CABLING INTO ANY CONDUIT THAT HAS NOT BEEN CONFIRMED TO BE BLOWN CLEAR. COORDINATE WITH ELECTRICAL PRIOR TO ROUGH IN OF ANY CABLING.

05. ANY CABLING FOUND PAINTED DURING THE CONSTRUCTION PROCESS WILL BE REPLACED AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND PAINTER TO AVOID CONFLICTS.

06. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REFERENCE BOTH THE PROJECT DRAWINGS AND THE PROJECT SPECIFICATIONS. TOGETHER THEY FORM THE COMPLETE CONTRACT DOCUMENTS. PLEASE REFERENCE THE PROJECT SPECIFICATIONS FOR ALL MATERIALS, EQUIPMENT AND COMPONENTS NOT INDICATED ON THE DRAWING SET.

07. CONTRACTOR SHALL COORDINATE ALL FINAL CAMERA LOCATIONS, HEIGHTS AND CAMERA VIEWING ANGLES WITH OWNER/OWNER'S REPRESENTATIVE. FAILURE TO COORDINATE ALL FINAL CAMERA LOCATIONS, HEIGHTS AND VIEW ANGLES MAY REQUIRE RELOCATION OF CONDUITS, CABLE AND CAMERA LOCATIONS AT CONTRACTOR'S EXPENSE.

08. CONTRACTOR SHALL COORDINATE TECHNOLOGY, TELECOM, SECURITY AND AUDIO VISUAL LOCATIONS SO THAT DATA AND POWER ARE AT THE SAME HEIGHT AND SPACED 18"-24" APART UNLESS SPECIFIED OTHERWISE. REFERENCE TECHNOLOGY AND MEP SHEETS FOR COORDINATION.

09. ALL CABLING INSTALLED IN AREAS WITH EXPOSED CEILINGS SHALL BE INSTALLED IN A PROPERLY SIZED CONDUIT PATHWAY. CONDUIT PATHWAYS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. THE CONDUIT MAY BE PAINTED TO MATCH CEILING COLOR AS DIRECTED BY THE CONTRACT DOCUMENTS.

10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ARCHITECTURAL DEMOLITION DRAWINGS FOR ALL DEMOLITION AREAS.

11. CONTRACTOR SHALL DOCUMENT ALL EXISTING TECHNOLOGY, TELECOM, SECURITY AND AUDIO VISUAL DEVICES AND LOCATIONS PRIOR TO DEMOLITION OF CEILINGS AND SPACES. PROVIDE TEMPORARY SUPPORT IN ALL DEMOLITION AREAS FOR DEVICES, RE-INSTALL ALL EXISTING DEVICES IN NEW CEILINGS.

12. CONTRACTOR SHALL DOCUMENT ALL EXISTING CEILING TECHNOLOGY, TELECOM, SECURITY AND AUDIO VISUAL LABELING ON EXISTING CEILING GRID. PROVIDE NEW LABELING PER SPECIFICATIONS.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR STOPPING ALL TECHNOLOGY, TELECOM, SECURITY AND AUDIO VISUAL CONDUIT PENETRATIONS FROM WATER OR RODENT INGRESS IN ALL BUILDINGS UPON COMPLETION OF THE PROJECT.

GENERAL PROJECT NOTES

01. INSTALL EQUIPMENT, DEVICES, AND PATHWAYS, SUCH AS CABLE TRAY, RUNWAY, CONDUITS, CABLE HANGERS, AND PULLBOXES, ETC., ACCORDING TO STATE AND LOCAL CODES AND REGULATORY REQUIREMENTS FROM , THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND THE NATIONAL ELECTRIC CODE .

02. INSTALL CONDUIT PATHWAYS PER ANSI/TIA-569-B AND BUILDING INDUSTRIES CONSULTING SERVICES INTERNATIONAL (BICSI) "TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL" (TDMM).

03. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC, U.N.O. DETERMINE CONDUIT ROUTES IN THE FIELD TO SUIT FIELD CONDITIONS WHILE CONFORMING TO SPECIFICATIONS. PREPARE SHOP DRAWINGS SHOWING EXACT CONDUIT ROUTES, INDICATING PENETRATION TYPES (E.G., FRAMED WALL, CONCRETE WALL, ETC.). COORDINATE REQUIREMENTS WITH OTHER TRADES.

04. ROUTE CONDUIT, CABLE TRAYS, AND OTHER PATHWAYS PERPENDICULAR OR PARALLEL TO BUILDING LINES.

05. WHEN PROVIDING BENDS IN CONDUIT RUNS, PROVIDE BENDS WITH RADII NO LESS THEN AS FOLLOWS: CONDUITS LESS THAN 2-INCH TRADE SIZE = SIX TIMES THE INSIDE DIAMETER CONDUITS 2-INCH OR GREATER TRADE SIZE = TEN TIMES THE INSIDE DIAMETER.

06. CONDUIT RUNS SHALL CONTAIN NO MORE THAN 180 DEGREES OR TWO 90-DEGREE BENDS WITHOUT AN APPROPRIATE NEMA RATED PULL BOX OR/AN INCREASE CONDUIT BY ONE TRADE SIZE FOR EACH ADDITIONAL BEND OF UP TO 90 DEGREES. A THIRD CONDUIT 90 DEGREE BEND WILL BE ALLOWED WITHOUT UPSIZING THE CONDUIT IF IT IS WITHIN 12 INCHES OF THE CONDUIT END.

07. WHEN ROUTING CONDUIT IN CONCRETE, PLACE CONDUITS INTO FORMS WITH A GRADUATED BEND RADIUS TO MITIGATE CAPACITY REDUCTIONS. THE USE OF 90-DEGREE ELBOWS IS EXPRESSLY PROHIBITED UNLESS PRIOR AUTHORIZATION IS RECEIVED IN WRITING FROM THE OWNER, OR OWNER'S REPRESENTATIVE.

08. PROPERLY FIRE SEAL CONDUIT AND RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS TO MAINTAIN THE FIRE SEPARATION RATING.

09. PROVIDE FIRE STOPPING SYSTEMS THAT ARE UL LISTED FOR THE APPLICATION. COORDINATE REQUIREMENTS WITH LOCAL FIRE MARSHALL PRIOR TO INSTALLATION. DO NOT MIX PRODUCTS BETWEEN MANUFACTURED ASSEMBLIES.

10. PROVIDE EXPANSION/DEFLECTION FITTINGS FOR CONDUITS AT STRUCTURAL EXPANSION JOINT CROSSINGS.

11. PROVIDE PLASTIC BUSHINGS ON EXPOSED ENDS OF CONDUIT AND SLEEVES, WHETHER VISIBLE OR NOT.

12. PROVIDE EMT 4 INCH TRADE SIZE CONDUITS FOR BACKBONE PATHWAYS WITH 40-INCHES MINIMUM BEND RADIUS FITTINGS, UNO.

13. PROVIDE A MINIMUM OF ONE 1-INCH TRADE SIZE CONDUIT FOR HORIZONTAL DISTRIBUTION AND OUTLETS, UNO ON SCHEDULES OR PLANS. CONSOLIDATION OF CONDUITS IS ALLOWED WHEN EQUAL OR GREATER CONSOLIDATED AREA IS PROVIDED.

14. PROVIDE A DEDICATED CONDUIT STUB PER OUTLET/DEVICE/BACK BOX. DAISY-CHAINING OUTLET BOXES IS PROHIBITED.

15. CONDUIT ("LB", ETC.) FITTINGS ARE EXPRESSLY PROHIBITED FOR LOW VOLTAGE SYSTEMS PATHWAYS.

16. PROVIDE PULL STRINGS WITH A MINIMUM OF 200 LB PULL TENSION IN CONDUITS.

17. PROVIDE DEDICATED SUPPORTS (CLIPS AND WIRES) FOR CABLE SUPPORT HANGERS (AND SIMILAR PATHWAY COMPONENTS) INTENDED FOR LOW VOLTAGE SYSTEMS CABLES.

18. DO NOT SHARE SUPPORTS WITH OTHER TRADES/SYSTEMS OTHER THAN WITH THE SYSTEMS AS IDENTIFIED IN THIS SET OF DRAWINGS.

19. PROVIDE CONDUITS FOR LOW VOLTAGE SYSTEMS CABLING ROUTED THROUGH NON-ACCESSIBLE CEILING SPACE (E.G., 'HARD LID' CEILING), UNO. SIZE CONDUITS TO MAINTAIN A FILL CAPACITY NO LESS THAN 40% PLUS 50% SPACE CAPACITY.

20. MOUNTING HEIGHTS ARE REFERENCED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE, UNO SPECIFICALLY FOR A DEVICE.

21. PROVIDE 24 INCHES MINIMUM SEPARATION OR ONE STUD BAY BETWEEN 'BACK-TO-BACK' OUTLETS/DEVICES/BACK BOXES IN FRAMED WALLS.

22. A PULL BOX SHALL BE PLACED IN A CONDUIT RUN WHEN ANY OF THE FOLLOWING CONDITIONS EXIST: A. THE LENGTH OF THE CONDUIT RUN IS OVER 100 FEET.
B. THERE ARE MORE THAN TWO 90 DEGREE BENDS IN THE CONDUIT RUN.
C. THERE IS A REVERSE BEND IN THE CONDUIT RUN.

23. PULL BOXES SHALL BE PLACED IN STRAIGHT SECTION OF CONDUIT AND NOT USED TO REPLACE A BEND. CONDUITS ENTERING AND EXITING PULL BOXES SHALL BE ALIGNED WITH ONE ANOTHER TO ALLOW FOR EASE OF CABLE INSTALLATION.

24. PULL BOXES AND JUNCTION BOXES SHALL BE PLACED IN EASILY ACCESSIBLE LOCATIONS. PULL BOX SIZES SHALL BE AS DEFINED BY THE NATIONAL ELECTRICAL CODE.

25. WHEN CONDUIT PATHWAY IS PLACED/ROUTED UNDER DRIVE LANES OR PARKING AREAS CONDUIT DUCTBANK SHALL BE ENCASED IN CONCRETE IN ACCORDANCE WITH SPECIFICATIONS TO PROVIDE CRUSH RESISTANCE.

CONDUIT PATHWAY GUIDELINES

Symbol	Description
+X"	TYPICAL (1) CABLE SEGMENT WAO X = INSTALLATION HEIGHT
0 +X"	TYPICAL WAO ROUGH IN AND BACK BOX FOR FUTURE USE. X = INSTALLATION HEIGHT
## +X"	TYPICAL WAO X = INSTALLATION HEIGHT ## = NUMBER OF CATEGORY CABLE SEGMENTS
	TYPICAL (1) CABLE SEGMENT WAO - IN FLOOR FLOOR DEVICE WITH 1" CONDUIT TO NEAREST ACCESSIBLE CEILING.(BY OTHERS)
#	TYPICAL WAO - IN FLOOR FLOOR DEVICE WITH 1" CONDUIT TO NEAREST ACCESSIBLE CEILING.(BY OTHERS) # = NUMBER OF CATEGORY CABLE SEGMENTS.
	TYPICAL (1) CABLE SEGMENT WAO - OVERHEAD TERMINATION
#	TYPICAL WAO - OVERHEAD TERMINATION # = NUMBER OF CATEGORY CABLE SEGMENTS
W	TYPICAL (1) CABLE SEGMENT WAO - MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE (U.N.O.)
P	TYPICAL (1) CABLE SEGMENT WAO - MOUNTED WITHIN PANEL.
RS	ROOM SCHEDULER - (1) CAT 6 CABLE MOUNTED AT 48" A.F.F. U.N.O.
AV #	AV CAT 6 DATA CABLE SEGMENTS # = NUMBER OF CAT 6 CABLE SEGMENTS
	WIRELESS ACCESS POINT LOCATION - (2) CAT 6A CABLE SEGMENTS CEILING MOUNTED
	WIRELESS ACCESS POINT LOCATION - (2) CAT 6A CABLE SEGMENTS WALL MOUNTED
TV +X"	(1) CATEGORY AND (1) COAX CABLE X = INSTALLATION HEIGHT 18" U.N.O.
TV +X"	(2) CATEGORY CABLES X = INSTALLATION HEIGHT 18" U.N.O.
COAX +#"	(1) COAX CABLE # = INSTALLATION HEIGHT 18" U.N.O.
HW	20A CIRCUIT WIRED TO VENDOR PROVIDED EQUIPMENT
L6-30R L6-30R A B	L6-30R - DEDICATED CIRCUIT RECEPTACLE (A&B)
	5-20R - QUAD DEDICATED CIRCUIT RECEPTACLE
	TELECOMMUNICATION GROUND BUSBAR (SEE DETAIL)

DATA SYMBOLS LEGEND

Symbol	Description
BL	ELECTRIC BOLT LOCK
CB	CRASH BAR
R CB	CRASH BAR WITH INTEGRATED REQUEST TO EXIT
DC	MAGNETIC DOOR CONTACT
DR	DOOR RELEASE
EB	EXIT BUTTON
EDR	EMERGENCY DOOR RELEASE
ELR	ELECTRIFIED LATCH RETRACTION
EL	ELECTRIFIED LOCKSET
R EL	ELECTRIFIED LOCKSET WITH INTEGRATED REQUEST TO EXIT
ES	ELECTRIC STRIKE
R	REQUEST TO EXIT MOTION SENSOR
WR	WIRELESS CARD READER

ACCESS CONTROL DOOR SYMBOL LEGEND

Symbol	Description
AV XX	AUDIO AND/OR VIDEO OUTLET ON WALL. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1 1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE TO BACK BOX (UNO) AT 18" AFF. COORDINATE A/V LOCATIONS SO THAT A/V OUTLETS ARE AT THE SAME HEIGHT AND IN CLOSE PROXIMITY TO POWER AND OTHER INPUT LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL A/V CABLING, FACEPLATE(S) AND JACKS. REFERENCE DETAILS AND DRAWINGS AND DETAILS FOR OUTLET TYPES AND QUANTITIES.
AV CCX	AUDIO/VIDEO AND COMMUNICATIONS INPUT/OUTPUTS ON WALL. INSTALL (2) 1 1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE. COORDINATE A/V LOCATIONS SO THAT A/V OUTLETS ARE AT THE SAME HEIGHT AND IN CLOSE PROXIMITY TO POWER AND OTHER INPUT LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL A/V CABLING, FACEPLATE(S) AND JACKS. REFERENCE DETAILS AND DRAWINGS AND ALSO DETAILS FOR OUTLET TYPES AND QUANTITIES.
AV XX	A/V OUTLET IN CEILING. CONTRACTOR SHALL PROVIDE AND INSTALL A/V CABLING, FACEPLATE(S) AND JACKS. COORDINATE A/V LOCATIONS SO THAT A/V OUTLETS ARE IN CLOSE PROXIMITY TO POWER AND OTHER INPUT LOCATIONS. REFERENCE DETAILS AND DRAWINGS AND ALSO DETAILS FOR OUTLET TYPES AND QUANTITIES.
CP XX	CONTROL PANEL LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1 1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE TO BACK BOX (UNO) AT 18" AFF.CONTRACTOR SHALL PROVIDE AND INSTALL CONTROL PANEL PER SPECIFICATIONS AT LOCATIONS SHOWN ON PLANS. REFERENCE A/V DETAILS FOR INSTALLATION HEIGHT AND TYPE.
ER XX	SOUND EQUIPMENT RACK ON FLOOR. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW SOUND EQUIPMENT RACK IN LOCATION SHOWN AS PER SPECIFICATIONS. SOUND EQUIPMENT RACK SHALL BE SECURED AS PER MANUFACTURERS SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION HARDWARE.
ER XX	SOUND EQUIPMENT RACK ON WALL. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW SOUND EQUIPMENT RACK IN LOCATION SHOWN AS PER SPECIFICATIONS. SOUND EQUIPMENT RACK SHALL BE SECURED AS PER MANUFACTURERS SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION HARDWARE.
FB XX	AUDIO VISUAL FLOOR BOX LOCATION. REFERENCE AUDIO VISUAL DETAILS FOR CONDUIT SIZE AND QUANTITY.
M XX	MICROPHONE INSTALLED IN CEILING. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT FROM SOUND EQUIPMENT RACK TO APPROXIMATE MICROPHONE LOCATION. NO POWER REQUIRED AT THESE LOCATIONS. LABEL BOTH ENDS OF CABLE PER SPECIFICATIONS. FAILURE TO COORDINATE FINAL LOCATION PRIOR TO FINAL ROUGH-IN MAY RESULT IN RELOCATION OF THE MICROPHONE AT THE CONTRACTOR'S EXPENSE.
PS	CEILING MOUNTED PROJECTION SCREEN LOCATION. REFERENCE SPECIFICATIONS FOR INFORMATION. CONTRACTOR TO PROVIDE REQUIRED MATERIALS TO SUPPORT PROJECTION SCREEN FROM BUILDING STRUCTURE.
PTZ	WALL - MOUNTED PAN TILT ZOOM (PTZ) CAMERA FOR VIDEO TELECONFERENCING. MOUNT ABOVE OR BELOW ASSOCIATED DISPLAY AS SHOWN ON AV DETAILS SHEET.
S2 XX	LOCAL SOUND SYSTEM SURFACE MOUNTED SPEAKERS. CONTRACTOR SHALL SUPPORT SPEAKERS PER MANUFACTURER'S APPROVED METHODS ONLY FROM EITHER STRUCTURAL STEEL OR WITH UNI-STRUT SUPPORTED BY THE STRUCTURAL STEEL. REFERENCE STRUCTURAL DRAWINGS FOR JOISTS AND BEAM LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1 1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE TO BACK BOX .CONTRACTOR SHALL SUPPORT SPEAKER CABLE IN SEPARATE J-HOOKS FROM STRUCTURED CABLING FROM SOUND EQUIPMENT RACK TO SPEAKER LOCATION.
S2 XX	LOCAL SOUND SYSTEM SPEAKERS IN CEILING. CONTRACTOR SHALL SUPPORT SPEAKERS IN CEILING PER MANUFACTURER'S APPROVED METHODS ONLY FROM EITHER STRUCTURAL STEEL OR WITH UNI-STRUT SUPPORTED BY THE STRUCTURAL STEEL. REFERENCE STRUCTURAL DRAWINGS FOR JOISTS AND BEAM LOCATIONS.
TP XX	TOUCH PANEL CONTROL LOCATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1-1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE TO CONTRACTOR PROVIDED BACK BOX INSTALLED 48" AFF. CONTRACTOR SHALL PROVIDE AND INSTALL CONTROL PANEL PER SPECIFICATIONS AT LOCATIONS SHOWN ON PLANS. REFERENCE A/V DETAILS FOR INSTALLATION HEIGHT AND TYPE.
TV ##" XX	WALL MOUNTED FLAT PANEL DISPLAY WITH AUDIO AND/OR VIDEO OUTLET. COORDINATE OUTLET LOCATION SO THAT THEY ARE HIDDEN FROM AUDIENCE VIEW. ## = DISPLAY SIZE X = MOUNTING HEIGHT TO CENTER OF DISPLAY A.F.F
TV	CEILING MOUNTED 60" FLAT PANEL MONITOR LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1 1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE TO BACK BOX (UNO). COORDINATE A/V LOCATIONS SO THAT A/V OUTLETS ARE AT THE SAME HEIGHT AND IN CLOSE PROXIMITY TO POWER AND OTHER INPUT/OUTPUT LOCATIONS. REFERENCE DETAILS FOR COORDINATION. CONTRACTOR SHALL PROVIDE AND INSTALL A/V CABLING, FACEPLATE(S) AND JACKS. REFERENCE DETAILS AND DRAWINGS FOR OUTLET TYPES AND QUANTITIES.
USB	USB OUTLET ON WALL. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1 1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE TO BACK BOX AT 18" AFF (UNO). AT INTERACTIVE WHITE BOARD LOCATIONS, COORDINATE USB LOCATIONS SO THAT THEY ARE JUST BELOW (UNO). REFERENCE SPECIFICATIONS FOR OUTLET TYPES AND QUANTITIES.
VP XX	CEILING MOUNTED VIDEO PROJECTOR / MOUNT(S). CONTRACTOR SHALL PROVIDE AND INSTALL PROJECTOR MOUNT PER MANUFACTURES SPECIFICATIONS. COORDINATE PROJECTOR MOUNT LOCATION WITH OWNER/OWNER'S REPRESENTATIVE AND SO THAT POWER AND INPUTS ARE IN CLOSE PROXIMITY TO THE PROJECTOR MOUNT. FAILURE TO COORDINATE MAY RESULT IN RELOCATION OF THE PROJECTOR MOUNT LOCATION AT CONTRACTORS' EXPENSE. REFERENCE A/V NOMENCLATURE FOR INSTALLATION HEIGHT AND TYPE.
WB	WALL BOX MOUNTED AT 48" AFF. REFERENCE AUDIO VISUAL DETAILS FOR CONDUIT SIZE AND QUANTITY.

AUDIO VISUAL SYMBOLS LEGEND

Symbol	Description
### X-X	CAMERA - WALL MOUNTED (1) CATEGORY CABLE SEGMENT (BY DIV 27 VENDOR) ### = FIELD OF VIEW IN DEGREES X-X = SECTION - NUMBER
### X-X	CAMERA - CEILING MOUNTED (1) CATEGORY CABLE SEGMENT (BY DIV 27 VENDOR) ### = FIELD OF VIEW IN DEGREES X-X = SECTION - NUMBER
CR	ACCESS CONTROL CARD READER INSTALLED AT SPECIFIED LOCATION. INSTALL ONE(1) 1" CONDUIT PATHWAY FROM THE NEAREST ACCESSIBLE CEILING SPACE TO A SINGLE GANG BACKBOX INSTALLED AT 44" AFF.
DR	DOOR RELEASE BUTTON. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BUTTON LOCATION, ALLOWING FOR A SAFE AND SECURE PATHWAY. IF TRANSITION TO FLEX IS REQUIRED ENSURE THAT CONDUIT SIZES MATCH WITH NO ROUGH EDGES AND NO CABLING IS EXPOSED. COORDINATE WITH THE CONTRACTOR FOR ANY MODIFICATIONS NEEDED ON THE FURNITURE TO ALLOW FOR THE PATHWAY INSTALLATION. CONTRACTOR SHALL ADD BUTTON BELOW DESK SURFACE AND CONNECT INTO SYSTEM. COORDINATE WITH OWNER/OWNER'S REPRESENTATIVE ON FINAL LOCATION PRIOR TO FINAL ROUGH-IN. FAILURE TO COORDINATE MAY RESULT IN RELOCATION OF THE BUTTON AT CONTRACTOR'S EXPENSE. DOOR RELEASE BUTTONS SHOULD NEVER OPERATE MORE THAN (1) DOOR.
DB	DURESS BUTTON. CONTRACTOR SHALL PROVIDE AND INSTALL A 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BUTTON LOCATION, ALLOWING FOR A SAFE AND SECURE PATHWAY. IF TRANSITION TO FLEX IS REQUIRED ENSURE THAT CONDUIT SIZES MATCH WITH NO ROUGH EDGES AND NO CABLING IS EXPOSED. COORDINATE WITH THE CONTRACTOR FOR ANY MODIFICATIONS NEEDED ON THE FURNITURE TO ALLOW FOR THE PATHWAY INSTALLATION. CONTRACTOR SHALL ADD BUTTON BELOW DESK SURFACE AND WIRE INTO SYSTEM. COORDINATE WITH OWNER/OWNER'S REPRESENTATIVE ON FINAL LOCATION PRIOR TO FINAL ROUGH-IN. FAILURE TO COORDINATE MAY RESULT IN RELOCATION OF THE BUTTON AT CONTRACTOR'S EXPENSE. EACH LOCK DOWN CABLE SHOULD BE HOMERUN WITH NO SPLICES TO THE ACCESS CONTROL PANEL.
DC	DOOR CONTACT REQUIRED IN SPECIFIED DOOR. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 1/2" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO THE TOP OF THE INSIDE OF THE DOOR FRAME FOR A DOOR CONTACT PATHWAY. COORDINATE CONDUIT PATHWAY WITH CONTRACTOR PRIOR TO FINAL ROUGH IN. CONTRACTOR SHALL PROVIDE AND INSTALL A DOOR POSITION SWITCH AT ALL LOCATIONS SHOWN ON PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONNECT THESE DEVICES INTO THE ACCESS CONTROL PANEL. DOOR POSITION SWITCH NEEDS TO BE ON THE LATCH SIDE OF DOOR AT TOP NO MORE THAN 6" FROM EDGE OF DOOR.
ELR	ELECTRIFIED LATCH RETRACTION PROVIDED BY DIVISION. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING INTO ACCESS CONTROL SYSTEM AND ENSURING PROPER FUNCTION.
RH	DOOR POSITION SWITCH AT A ROOF HATCH LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY TO THE TOP OF THE INSIDE OF THE DOOR FRAME FOR A DOOR POSITION SWITCH PATHWAY. COORDINATE CONDUIT PATHWAY WITH CONTRACTOR PRIOR TO FINAL ROUGH IN. CONTRACTOR SHALL PROVIDE AND INSTALL A DOOR POSITION SWITCH AT ROOF LOCATIONS SHOWN ON PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONNECT THESE DEVICES INTO THE ACCESS CONTROL PANEL.
R CB	REQUEST TO EXIT DEVICE (R) INTEGRATED INTO CRASH BAR (CB). CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING INTO ACCESS CONTROL SYSTEM AND ENSURING PROPER FUNCTION. WIRING HARNESS THROUGH EPT OR TRANSFER HINGE FURNISHED BY DIVISION 08 CONTRACTOR.
DB	DURESS BUTTON. CONTRACTOR SHALL PROVIDE AND INSTALL A 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BUTTON LOCATION, ALLOWING FOR A SAFE AND SECURE PATHWAY. IF TRANSITION TO FLEX IS REQUIRED ENSURE THAT CONDUIT SIZES MATCH WITH NO ROUGH EDGES AND NO CABLING IS EXPOSED. COORDINATE WITH THE CONTRACTOR FOR ANY MODIFICATIONS NEEDED ON THE FURNITURE TO ALLOW FOR THE PATHWAY INSTALLATION. CONTRACTOR SHALL ADD BUTTON BELOW DESK SURFACE AND WIRE INTO SYSTEM. COORDINATE WITH OWNER/OWNER'S REPRESENTATIVE ON FINAL LOCATION PRIOR TO FINAL ROUGH-IN. FAILURE TO COORDINATE MAY RESULT IN RELOCATION OF THE BUTTON AT CONTRACTOR'S EXPENSE. EACH DURESS CABLE SHOULD BE HOME RUN WITH NO SPLICES TO THE ACCESS CONTROL PANEL.
KP	KEY PAD AT SPECIFIED LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BACK BOX INSTALLED 44" AFF. COORDINATE POWER WITH MEP AT THIS LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL SPECIFIED KEY PAD AT LOCATION SHOWN ON PLANS. CONTRACTOR SHALL CONNECT KEY PAD INTO THE ACCESS CONTROL PANEL.
MD	MOTION DETECTOR AT SPECIFIED LOCATION. CONTRACTOR SHALL SECURE AND SUPPORT MOTION DETECTOR PER MANUFACTURER'S SPECIFICATIONS AND TO TYPE OF CEILING. REFERENCE ARCHITECTURAL RCP PLANS FOR CEILING HEIGHT AND TYPE. CONTRACTOR SHALL COORDINATE WITH MEP PLANS FOR DEVICES ON THE GRID AND IN THE CEILING SPACE. FAILURE TO COORDINATE MAY RESULT IN RELOCATION OF THE MOTION DETECTOR AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CONNECT MOTION DETECTOR TO THE ACCESS CONTROL PANEL.
MD 360	360 DEGREE MOTION DETECTOR AT SPECIFIED LOCATION. CONTRACTOR SHALL SECURE AND SUPPORT MOTION DETECTOR PER MANUFACTURER'S SPECIFICATIONS AND TO TYPE OF CEILING. REFERENCE ARCHITECTURAL RCP PLANS FOR CEILING HEIGHT AND TYPE. CONTRACTOR SHALL COORDINATE WITH MEP PLANS FOR DEVICES ON THE GRID AND IN THE CEILING SPACE. FAILURE TO COORDINATE MAY RESULT IN RELOCATION OF THE MOTION DETECTOR AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL CONNECT MOTION DETECTOR TO THE ACCESS CONTROL PANEL.
RD	DOOR POSITION SWITCH AT A ROLL UP DOOR LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY TO AN ARMORED LOOP TO THE INSIDE OF THE DOOR FOR A DOOR POSITION SWITCH PATHWAY. COORDINATE CONDUIT PATHWAY WITH CONTRACTOR PRIOR TO FINAL ROUGH IN. CONTRACTOR SHALL PROVIDE AND INSTALL A DOOR POSITION SWITCH AT THE ROLL UP DOOR LOCATIONS SHOWN ON PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONNECT THESE DEVICES INTO THE ACCESS CONTROL PANEL.
RTE	REQUEST TO EXIT (RTE) REQUIRED IN SPECIFIED DOOR. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BOTH SIDES OF THE DOOR FRAME FOR ELECTRIC POWER TRANSFER (EPT). COORDINATE CONDUIT PATHWAY WITH CONTRACTOR PRIOR TO FINAL ROUGH IN. THE CONTRACTOR SHALL CONNECT THE RTE TO THE EPT TO THE ACCESS CONTROL PANEL
SI-M	SECURITY INTERCOM MASTER STATION AT SPECIFIED LOCATION. MASTER STATION REQUIRES CATEGORY CABLE TO CONNECT TO CEU TYPICALLY LOCATED IN THE NEAREST COMMUNICATIONS ROOM. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BACK BOX INSTALLED NEAR MASTER STATION. COORDINATE EXACT LOCATION AND BOX HEIGHT WITH OWNER.
SI-R	SECURITY INTERCOM REMOTE DOOR STATION AT SPECIFIED LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL (1) 3/4" CONDUIT PATHWAY FROM NEAREST ACCESSIBLE CEILING SPACE TO BACK BOX INSTALLED 44" AFF. COORDINATE POWER WITH MEP AT THIS LOCATION. CONTRACTOR SHALL PROVIDE AND INSTALL SPECIFIED DEVICE AT LOCATION SHOWN ON PLANS. CONTRACTOR SHALL CONNECT DEVICE OUTPUT INTO THE ACCESS CONTROL PANEL INPUT TO SIGNAL DOOR RELEASE.

ACCESS CONTROL & SURVEILLANCE SYMBOLS LEGEND

STANDARD TECHNOLOGY LEGEND
NOT ALL SYMBOLS AND NOTES MAY BE USED

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CLIENT:

CHEROKEE NATION
WCCA - REMODEL AND SITE IMPROVEMENTS

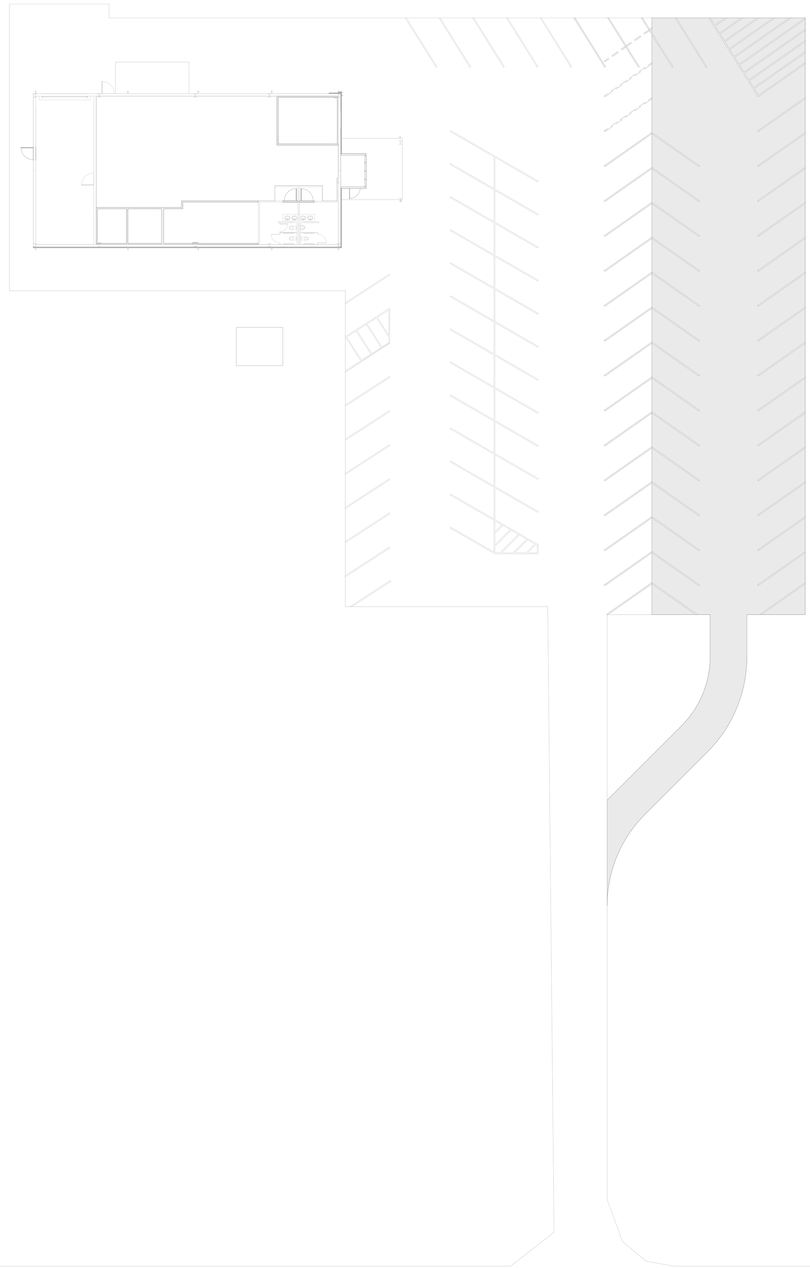
395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **T0.00**
SHEET TITLE: GENERAL NOTES AND SYMBOLS



SHEET NOTES:

REFERENCE SHEET T0.00 FOR ALL SYMBOLS AND PROJECT SPECIFIC NOTES.

SHEET NOTES - SITE PLAN

REFERENCE SHEET TG1.1 FOR ALL SYMBOLS AND PROJECT SPECIFIC NOTES.

CONDUITS INSTALLED FOR COMMUNICATIONS CABLING SHALL OBSERVE THE FOLLOWING PRACTICES:

A. USE OF SHARP OR NINETY DEGREE BENDS ARE NOT ALLOWED. CHANGE OF DIRECTION SHALL USE WIDE SWEEPING RADIUS BENDS.
B) PULL BOXES SIZED TO ACCOMMODATE CABLE BEND RADIUS SHALL BE PLACED WHEN CONDUIT CHANGES DIRECTION AS SHOWN ON DRAWINGS.
C) CABLE PULLING TENSION SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDATIONS – PULL METER SHALL BE USED TO MEASURE TENSION.
D) CONDUIT PATHWAY SHALL BE PROVIDED WITH A METALLIC TRACER WIRE WITHIN THE SAME TRENCH AS THE CONDUIT INSTALLED AT THE SAME LEVEL FOR FUTURE LOCATION PURPOSES. IN ADDITION, A WEATHER PROOF "FIBER OPTIC CABLE" MARKER TAPE SHALL BE INSTALLED AT 18" ABOVE THE CONDUIT TO NOTIFY ANYONE DIGGING IN THE EVENT AN ELECTRONIC LOCATE WAS NOT PERFORMED TO TRACE IN GROUND CONDUITS.
E) CONTRACTOR IS RESPONSIBLE FOR SEALING CONDUITS INSIDE BUILDINGS TO ENSURE NO BUILDING INGRESS OF WATER, INSECTS OR RODENTIA.
F) CONDUITS SHOULD TURN NO MORE THAN AN ACCUMULATED 180 DEGREES BETWEEN TWO PULL BOXES. IF FIELD CONDITIONS REQUIRE MORE THAN AN ACCUMULATED 180 DEGREE TURN(S) BETWEEN TWO PULL BOXES THE CONTRACTOR IS REQUIRED TO ADD A THIRD PULL BOX BETWEEN THE TWO AFOREMENTIONED PULL BOXES IN A LOCATION THAT REDUCES THE TURNS BETWEEN ANY TWO OF THE PULL BOXES TO LESS THAN 180 DEGREES.

PLAN NORTH

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REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58

DATE: 8/16/2024

SHEET NUMBER: **T0.01**

SHEET TITLE: SITE PLAN

RESPONSIBILITY SCHEDULE

THIS SCHEDULE IS FOR REFERENCE AND DOES NOT INCLUDE ALL PROJECT COMPONENTS. IT SHALL BE USED IN CONJUNCTION WITH THE PROJECT DRAWINGS AND PROJECT SPECIFICATIONS.

SECTION	DESCRIPTION	DESIGNED BY:	FURNISHED BY:		INSTALLED BY:		
27 0500	COMMON WORK RESULTS FOR COMMUNICATIONS	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	GROUNDING AND BONDING	CRUX	x		x		
	GROUNDING TIE INTO SERVICE GROUND	CRUX	x		x		
	PATHWAYS	CRUX	x		x		
	FIRESTOPPING	CRUX	x		x		
	LABELING	CRUX	x		x		
27 1000	STRUCTURED CABLING	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	DATA/VOICE/AP/CAMERA WORKSTATION CABLING	CRUX	x		x		
	COPPER PATCH CORDS	CRUX	x		x		
	FABRIC INNERDUCT	CRUX	x		x		
	FIBER OPTIC BACKBONE CABLING - OUTSIDE PLANT	CRUX	x		x		
	FIBER OPTIC BACKBONE CABLING - INSIDE PLANT	CRUX	x		x		
	SPLICING (COPPER AND FIBER)	CRUX	x				
	FIBER PATCH CORDS	CRUX	x				
	COPPER BACKBONE CABLE	CRUX	x		x		
	EQUIPMENT CABINET	CRUX	x		x		
	CABLE MANAGEMENT	CRUX	x		x		
	MDF / IDF PATHWAYS	CRUX	x		x		
27 2100	DATA COMMUNICATIONS NETWORK EQUIPMENT	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	NETWORK SWITCH / CARDS / MODULES / CABLES / POWER SUPPLIES	OWNER IT		x		x	
	UNINTERRUPTABLE POWER SUPPLY (UPS)	OWNER IT		x		x	
	WIRELESS ACCESS POINT / AGREEMENTS / CONFIGURATION	OWNER IT		x		x	
	VERTICAL POWER DISTRIBUTION UNIT (PDU)	OWNER IT		x		x	
	IP PHONE SET	OWNER IT		x		x	
27 4116	INTEGRATED AUDIO-VIDEO EQUIPMENT	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	AV RACK / CABINET						
	MICROPHONES / CABLES						
	DSP / AMPLIFIER / INPUT SOURCE						
	AMPLIFIERS						
	DISTRIBUTED SPEAKERS						
	PORTABLE SPEAKERS						
	CONTROL PANEL(S)						
	WALL PLATES						
	WIRING	CRUX	x		x		
	FLAT PANELS	CRUX	x		x		
	FLAT PANEL MOUNTS	CRUX	x		x		
	AV CABLING	CRUX	x		x		
	POWER CONDITIONER / SEQUENCER						
28 1300	ACCESS CONTROL SYSTEM	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	SECURITY SYSTEM MANAGEMENT SOFTWARE						
	ACCESS CONTROL PANELS						
	DOOR CONTROLLER						
	POWER DISTRIBUTION UNIT						
	DOOR POSITION SWITCHES						
	DOOR POWER SUPPLIES						
	REQUEST TO EXIT DEVICE						
	CARD READERS						
	DOOR RELEASE BUTTONS						
	EMERGENCY ALARM BUTTONS						
	ACCESS CONTROL WIRING						
	AUXILIARY POWER SUPPLIES						
	AUDIO/VIDEO INTERCOM SYSTEM						
	ACCESS CONTROL SERVER						
	ELECTRICAL POWER TRANSFER						
28 1600	INTRUSION	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	MOTION SENSORS						
	KEYPAD(S)						
	DOOR SWITCHES						
	AUXILIARY POWER SUPPLIES						
28 2300	VIDEO SURVEILLANCE SYSTEM	FIRM RESPONSIBLE FOR DESIGN	CONTRACTOR	OWNER	CONTRACTOR	OWNER	NOTES
	CAMERAS - INDOOR / OUTDOOR						
	CAMERAS - LICENSES						
	VIDEO MANAGEMENT SOFTWARE						
	STORAGE						

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CLIENT:

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395400 W 2900 Rd, Ochelata, OK 74051

KEY PLAN:

PROJECT PHASE:
100% CD's

REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **T0.02**
SHEET TITLE: RESPONSIBILITY SCHEDULE

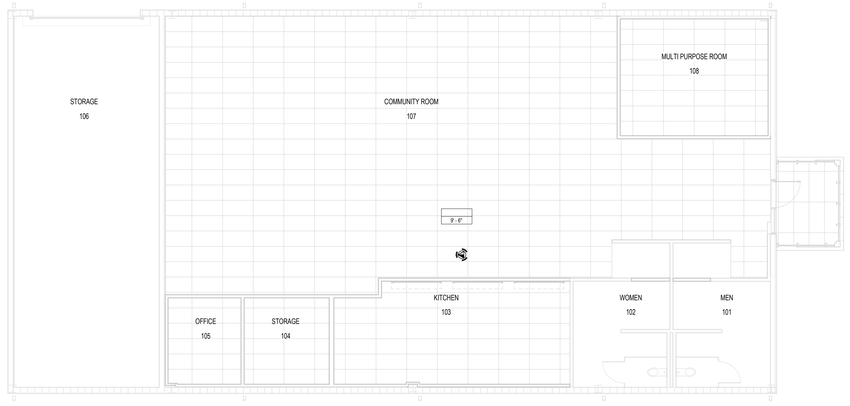
SHEET NOTES:

REFERENCE SHEET T0.00 FOR ALL SYMBOLS AND PROJECT SPECIFIC NOTES.

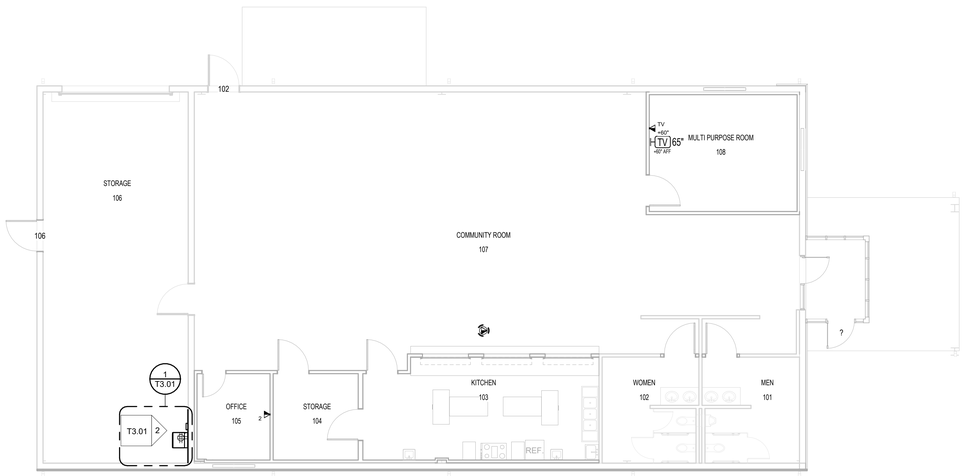
KEYNOTE LEGEND

(NOT ALL KEYNOTES MAY APPLY)

01. X



2 RCP - LEVEL 01 - SECTOR 01
1/8" = 1'-0"



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

PLAN NORTH

TRUE NORTH

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REVISIONS

#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58

DATE: 8/16/2024

SHEET NUMBER: **T1.01**

SHEET TITLE: FLOOR PLAN - LEVEL 01 - SECTOR 01

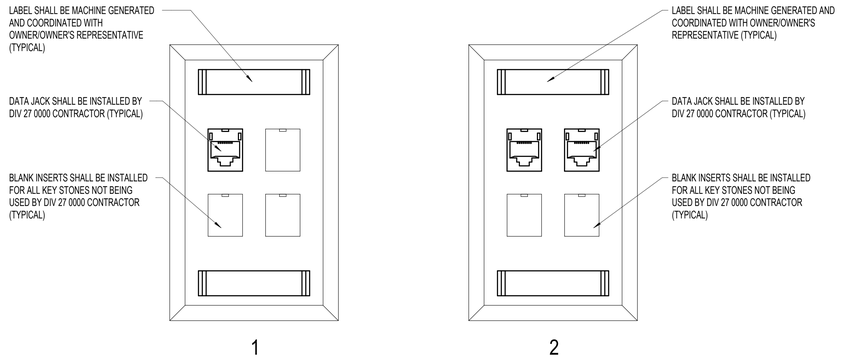
SHEET NOTES:

REFERENCE SHEET T0.00 FOR ALL SYMBOLS AND PROJECT SPECIFIC NOTES.

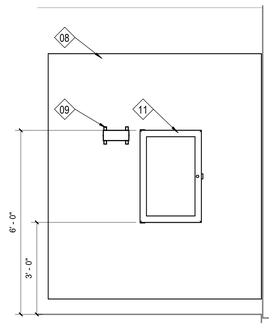
KEYNOTE LEGEND

(NOT ALL KEYNOTES MAY APPLY)

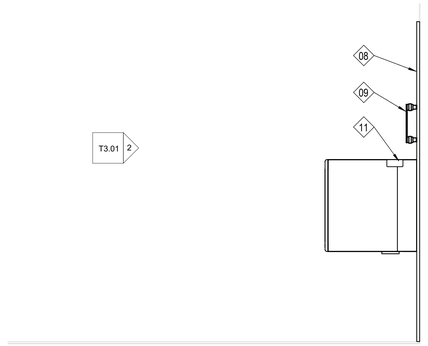
01. ACCESS CONTROL PANEL MOUNTED ON PLYWOOD BACKBOARD. INSTALL TOP OF PANEL NOT MORE THAN 6'-0" AFF.
02. POWER DISTRIBUTION UNIT PANEL MOUNTED ON PLYWOOD BACKBOARD. INSTALL TOP OF PANEL NOT MORE THAN 6'-0" AFF.
03. ELECTRICAL OUTLETS FOR EQUIPMENT POWER. COORDINATE WITH E.C. FOR FINAL LOCATIONS.
04. CONTRACTOR PROVIDED 42 RU 800MM WIDE CABINET FOR NETWORK CABLING. REFER TO SHEET T322 FOR RACK ELEVATIONS.
05. CONTRACTOR PROVIDED 42 RU 700MM WIDE CABINET FOR SERVER APPLICATIONS. REFER TO SHEET T322 FOR RACK ELEVATIONS.
06. 8" DOUBLE SIDED VERTICAL CABLE MANAGERS. INSTALL ON END SIDE OF RACKS AS SHOWN.
07. (2) 4" CONDUITS FOR OUTSIDE SERVICE PROVIDER CONNECTIVITY. CONDUITS SHALL ENTER THE DEMARC ROOM IN THIS AREA AND STUB UP 3" AFF AND BE EQUIPPED WITH PROTECTIVE WHITE PLASTIC BUSHINGS BY THE ELECTRICAL CONTRACTOR.
08. PROVIDE 3/4" PLYWOOD ON WALLS AS SHOWN. PLYWOOD SHALL BE PAINTED WITH (2) EVEN COATS OF FIRE RETARDANT PAINT. ATTACH USING BUTTERFLY BOLTS FOLLOWING BICSI BEST INSTALLATION PRACTICES.
09. CONTRACTOR SHALL GROUND AND BOND ALL EQUIPMENT RACKS AND SUPPORTING TRAY TO GROUND BAR INSTALLED AT 6'-0" AFF.
10. (4) 4" CONDUIT SLEEVES STUBBED UP 3" AFF. CONTRACTOR IS RESPONSIBLE FOR FIRE STOPPING PER WALL HOUR RATING.
11. 36" WALL MOUNTED CABINET.



3 DATA OUTLET INSTALLATION DETAIL
NTS



2 IDF - ELEVATION
1/2" = 1'-0"



1 IDF - ENLARGED PLAN
3/4" = 1'-0"

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KEY PLAN:

PROJECT PHASE:
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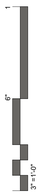
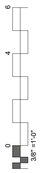
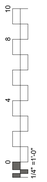
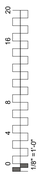
REVISIONS		
#	DATE	DESCRIPTION

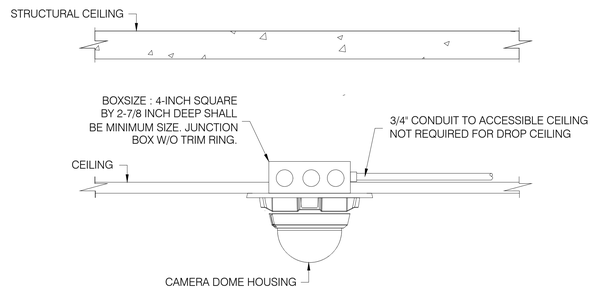
JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: T3.01
SHEET TITLE: IDF/MDF PLANS AND ELEVATIONS











1 CEILING MOUNTED DOME CAMERA
NTS

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KEY PLAN:

PROJECT PHASE:
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REVISIONS		
#	DATE	DESCRIPTION

JOB NUMBER: 24-08.58
DATE: 8/16/2024
SHEET NUMBER: **T5.01**
SHEET TITLE: DETAILS