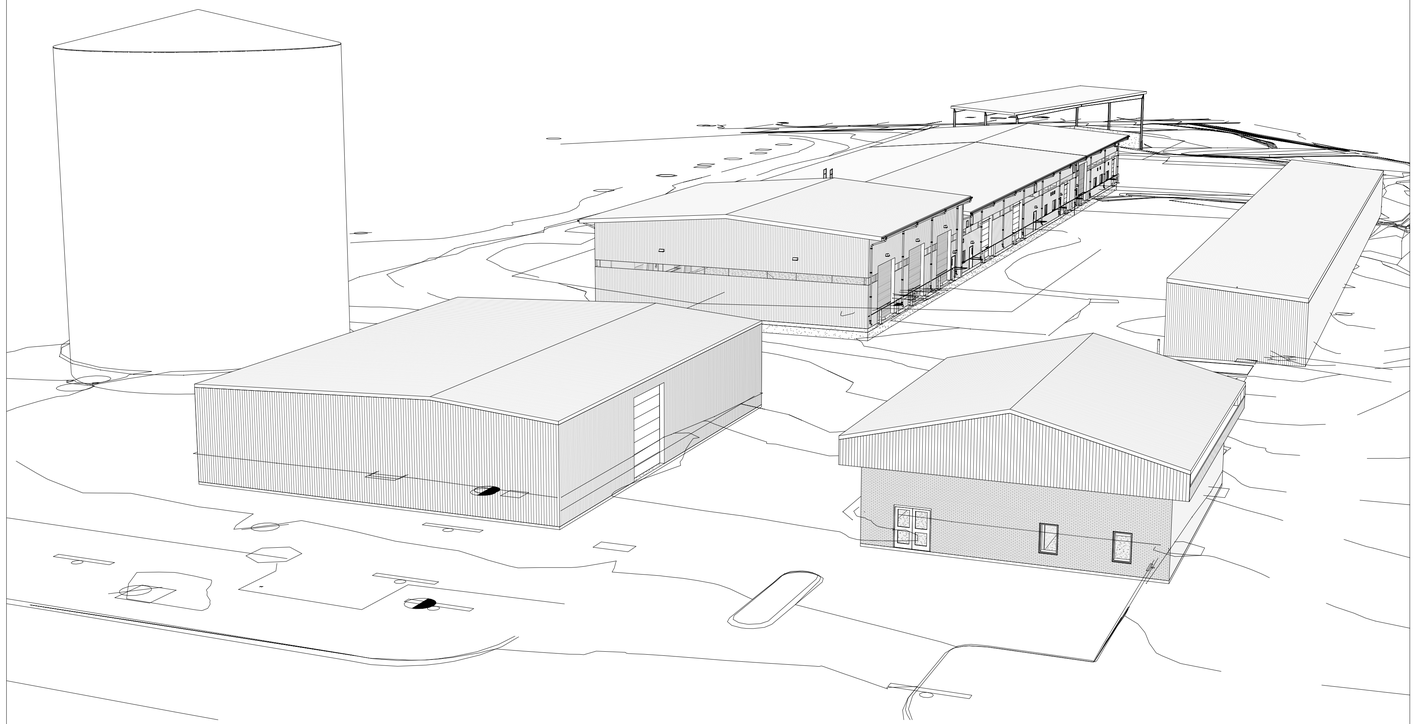
PROJECT:

MOORE PUBLIC WORKS

PROJECT ADDRESS:

512 NW 27TH STREET
MOORE, OKLAHOMA 73160



CLIENT

CITY OF MOORE
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405.793.5200

ARCHITECT

TAP ARCHITECTURE
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PROJECT MANAGER:CHRIS TEEHEE
PROJECT DESIGNER: CLAY DOBBINS
415 N BROADWAY AVE.
OKLAHOMA CITY, OKLAHOMA 73102
405.232.8787

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BRIAN BAKER
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BETHANY, OKLAHOMA 73008
405.789.4433

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1306 COMMERCE DRIVE
NORMAN, OK 73071
405.850.0205

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JULIAN HORNER
1306 COMMERCE DRIVE
NORMAN, OK 73071
405.801.2528

CIVIL

CEDAR CREEK
JASON EMMETT
1101 LARCHMONT, LN
NICHOLS HILLS, OK 73116
405.406.4622

NOTES

- Architectureal plans were prepared by this Architect or under his direct supervision as a consultant to the owner.
- All questions during pricing and construction shall be directed to the architect who will direct the question to the appropriate design

415 Broadway Ave
Oklahoma City
Oklahoma 73102

TAP

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ARCHITECT'S SEAL

STATE OF OKLAHOMA
ANTHONY DAVID MCDERMID
2670
REGISTERED ARCHITECT

04.30.2021

PROJECT

MOORE PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1898

DRAWING FOR

- ☐ FOR CONSTRUCTION
- ☐ PRELIMINARY - NOT FOR CONSTRUCTION
- ☐ REVIEW SET
- ☒ BID SET

ISSUE DATE

04.30.2021

SHEET

COVER

PROJECT NUMBER

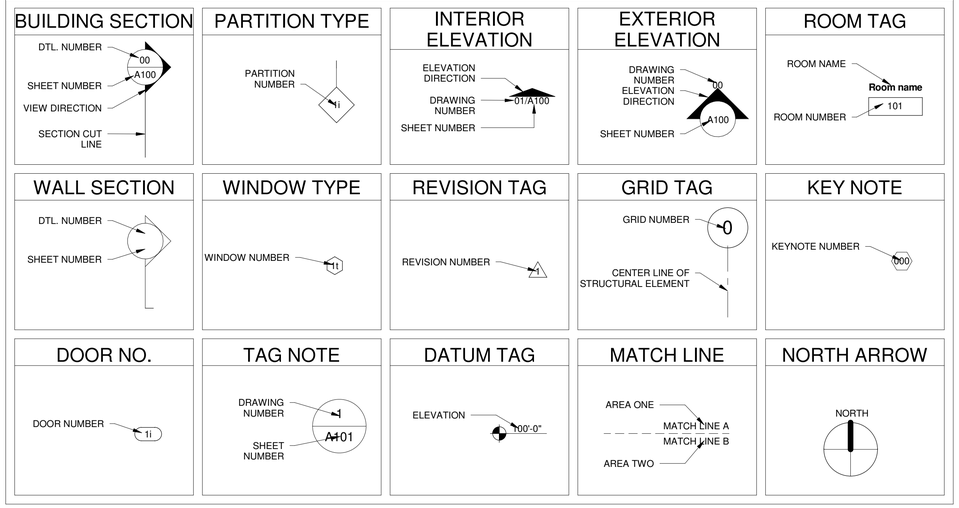
1707.3

ABBREVIATION

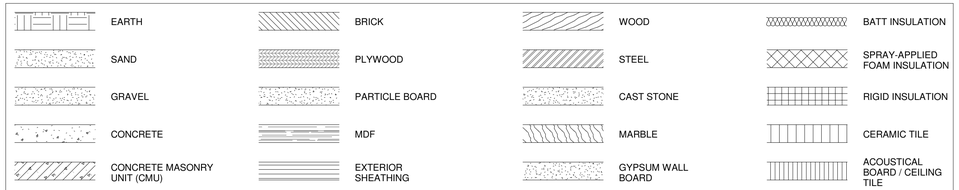
A.D.	AREA DRAIN
A.F.F.	ABOVE FINISHED FLOOR
A/C	AIR CONDITIONING
ABV.	ABOVE
ACOUST.	ACUSTICAL
ACT	ACUSTICAL CEILING TILE
ADD.	ADDENDUM
ADJ.	ADJACENT
ALT.	ALTERNATE
ALUM.	ALUMINUM
ARCH.	ARCHITECT, ARCHITECTURAL
AUTO.	AUTOMATIC
B.M.	BENCH MARK
B.S.	BOTH SIDES
B.U.R.	BUILT UP ROOFING
B.W.	BOTH WAYS
BBD.	BULLITIN BOARD
BD.	BOARD
BEL.	BELOW
BET.	BETWEEN
BIT.	BITUMINOUS
BIT.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BRNG.	BEARING
BSMT.	BASEMENT
BTM.	BOTTEM
C.O.	CLEAN OUT
C.T.	CERAMIC TILE
CAB	CABINET
CF	CUBIC FEET
CIR.	CIRCLE
CL.	CLOSET
CLR.	CLEAR, CLEARANCE
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOS, CONTINUE
CONTR.	CONTRACT, CONTRACTOR
CORR.	CORRUGATED
CPT	CARPET, CARPETED
CS.	COUNTERSINK
CTR.	COUNTER
CY	CUBIC YARD
D.F.	DRINKING FOUNTAIN
D.H.	DOUBLE HUNG
D.L.	DEAD LOAD
D.S.	DOWNSPOUT
D.W.	DISHWASHER
DEMO	DEMOLISH, DEMOLITION
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DIV.	DIVISION
DR.	DOOR
DTL.	DETAIL
DWG	DRAWING
DWR.	DRAWER
E	EAST
E.F.	EACH FACE
E.J.	EXPANSION JOINT
E.P.	ELECTRICAL PANELBOARD
E.W.C.	ELECTRIC WATER COOLER
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRIC, ELECTRICAL
ELEV.	ELEVATOR
EMERG.	EMERGENCY
ENCL.	ENCLOSE, ENCLOSURE
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
EXH.	EXHAUST
EXIST.	EXISTING
EXP.	EXPOSED
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.	FACE BRICK
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.F.L.	FINISH FLOOR LINE
F.O.B.	FACE OF BRICK
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.O.V.	FACE OF VENEER
F.S.	FULL SIZE
FAST.	FASTEN, FASTENER
FIN.	FINISH, FINISHED
FND.	FOUNDATION
FT.	FOOT, FEET
FTG.	FOOTING
FUR.	FURRED, FURRING
FUT.	FUTURE
G.C.	GENERAL CONTRACTOR
GA.	GAGE, GAUGE
GALV.	GALVANIZED
GL.	GLASS, GLAZING
GYP. BD.	GYPSUM BOARD
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
H.D.	HEAVY DUTY
H.M.	HOLLOW METAL
H.W.H.	HOT WATER HEATER
HARDBD.	HARDBOARD
HDW.	HARDWARE
HORIZ.	HORIZ.
HT.	HEIGHT
HTG.	HEATING
HVAC	HEATING / VENTILATING / AIR CONDITIONING
I.D.	INSIDE DIAMETER
INCL.	INCLUDE, INCLUDED, INCLUDING
INSUL.	INSULATE, INSULATED, INSULATION
INT.	INTERIOR
J.B.	JOUIST BEARING
JAN.	JANITOR, JANITORS
JT.	JOINT
KIT.	KITCHEN
L	LENGTH
L.H.	LEFT HAND
L.L.	LIVE LOAD
LAB.	LABORATORY
LAD.	LADDER
LAM	LAMINATE, LAMINATED
LAV.	LAVATORY
LT.	LIGHT
LW.	LIGHTWEIGHT
LWC.	LIGHTWEIGHT CONCRETE
M.H.	MANHOLE
M.O.	MASONRY OPENING
MAS.	MASONRY
MAX.	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH.	MECHANICAL
MED.	MEDIUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MOD.	MODULAR
MT.	MOUNT, MOUNTED, MOUNTING
MTL.	METAL
MULL.	MULLION
N	NORTH
N.I.C	NOT IN CONTRACT
N.R.	NOISE REDUCTION
N.R.C.	NOISE REDUCTION COEFFICENT
N.T.S.	NOT TO SCALE
NAT.	NATURAL
NOM.	NOMINAL
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OVERHEAD
OPG.	OPENING
OPH.	OPPOSITE HAND
OPP.	OPPOSIDE
OSB	ORIENTED STRAND BOARD
P.L.	PROPERTY LINE
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCH
PED.	PEDESTAL
PERF.	PERFORATE, PERFORATED
PLAM.	PLASTIC LAMINATE
PLYWD.	PLYWOOD
PT.	POINT
PVC	POLYVINYL CHLORIDE
Q.T.	QUARRY TILE
R.	RISER
R.A.	RETURN AIR
R.B.	RUBBER BASE
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
RAD.	RADIUS
RE:	REFER TO
REFLECT.	REFLECTOR
REFR.	REFRIGERATOR
REV.	REVISION, REVISIONS, REVISED
RM	ROOM
S	SOUTH
S.C.	SOLID CORE
S.D.	STORM DRAIN
S.J.	SAW JOINT
S.P.	SOUND PROOF
S.S.	STAINLESS STEEL
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION, SPECIFICATIONS
SPK.	SPEAKER
SPL.	SPECIAL
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURE, STRUCTURAL
SUSP.	SUSPENDED
T&G	TONGUE AND GROOVE
T.	TREAD
T.B.	TOWEL BAR
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF SLAB
T.O.W.	TOP OF WALL
T.V.	TELEVISION
TEL.	TELEPHONE
TKBD.	TACKBOARD
TKS.	TACKSTRIP
TYP.	TYPICAL
VCT	VINYL COMPOSITION TILE
VERT.	VERTICAL
VIN.	VINYL
VJ.	V-JOINT, V-JOINTED
W	WEST
W	WIDTH, WIDE
W.C.	WATER CLOSET
W/	WITH
W/O	WITH OUT
WD.	WOOD
WIN.	WINDOW

NOTE:
THE ABOVE ABBREVIATIONS ARE STANDARD, AND ARE NOT INTENDED TO BE A LISTING OF ANY OR ALL ABBREVIATIONS FOR THIS PROJECT.

DRAWING SYMBOLS



MATERIAL LEGEND



NOTE:
THE ABOVE MATERIAL INDICATIONS ARE STANDARD, AND ARE NOT INTENDED TO BE A LISTING OF MATERIALS FOR THIS PROJECT

GENERAL NOTES

1. CONTRACTOR SHALL RECEIVE IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING ANY WORK THAT IS NOT CLEARLY DEFINED BY THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY, OR OTHERWISE INDICATED, OR WHERE APPLICABLE CODES OR REGULATIONS TAKE PRECEDENCE.
3. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES RULE, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON PERFORMANCE OF THE WORK. MECHANICAL, ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, LOCAL AND STATE JURISDICTIONS, ORDINANCES, AND APPLICABLE REGULATIONS.
4. GENERAL CONTRACTOR SHALL SUPERVISE, AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, INCLUDING CONTRACT AND COORDINATION WITH ALL AUTHORIZED OWNER REPRESENTATIVES.
5. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN AND PERFORMANCE, MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT EXISTING CONDITIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
6. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES AND SERVICES PRIOR TO PROCEEDING WITH THE WORK TO ENSURE PROPER COORDINATION, SEQUENCING AND INSTALLATION OF NEW WORK.
7. PROVIDE FIRE SEALANT TO PERIMETER OF ALL PIPING, HVAC SLEEVING OR OTHER TYPE OF THRU-WALL PENETRATION.
8. NOTIFY ARCHITECT IMMEDIATELY OF ANY UNFORESEEN CONDITIONS FOR DIRECTION BEFORE PROCEEDING WITH WORK.
9. PAINT ALL EXPOSED SURFACES, EXCEPT WHERE ITEMS ARE SCHEDULED TO REMAIN NATURAL OR ARE OTHERWISE RESTRICTED BY LOCAL CODES, ORDINANCES OR AUTHORITIES HAVING JURISDICTION.
10. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT TO CHECK BUILDING LAY-OUT PRIOR TO START OF CONSTRUCTION.
11. AREA OF CLEAN-UP SHALL INCLUDE ALL DISTURBED EARTH.
12. FINISH GRADE AT BUILDING PERIMETERS SHALL BE 6" BELOW FINISH FLOOR UNLESS OTHERWISE NOTED.
13. CONTRACTOR SHALL PROTECT EXISTING PAVING AND WALKS THAT REMAIN AND REPAIR OR REPLACE ANY DAMAGE AS A RESULT OF THIS CONSTRUCTION.
14. GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL CONCRETE REQUIRED BY MECHANICAL AND/OR ELECTRICAL.
15. CONTRACTOR MAY STOCK PILE SOIL RETAINED FROM EXCAVATION FOR USE DURING CONSTRUCTION. TOP SOIL SHALL BE RETAINED IN A SEPARATE AREA FROM OTHER SOIL FOR USE IN FINISH GRADING. ANY SOIL STOCK PILED AND NOT REUSED FOR CONSTRUCTION SHALL BE DISTRIBUTED OVER THE SITE OR REMOVED FROM THE SITE AS DIRECTED BY OWNER.
16. DEVELOP POSITIVE DRAINAGE AWAY FROM NEW AND EXISTING BUILDINGS.
17. ORIGINAL TOPOGRAPHIC SURVEY BY CEDAR CREEK, INC AND PROVIDED TO ARCHITECT BY OWNER.
18. PROVIDE SOLID BLOCKING PER SPECIFICATIONS FOR ALL WALL MOUNTED ACCESSORIES.

SHEET

415 Broadway

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ARCHITECT'S SEAL

STATE OF OKLAHOMA
ANTHONY DAVID MCDERMID
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LICENSED ARCHITECT

04.30.2021

PROJECT

MOORE PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

ISSUES REVISIONS

04.30.2021

100% ISSUE FOR BID

SHEET TITLE

SHEET INDEX, SYMBOLS, ABBREVIATIONS. MTR'L LEGEND, GEN. NOTES

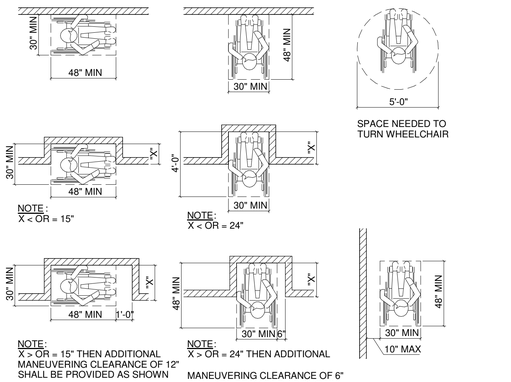
SHEET NUMBER

G110

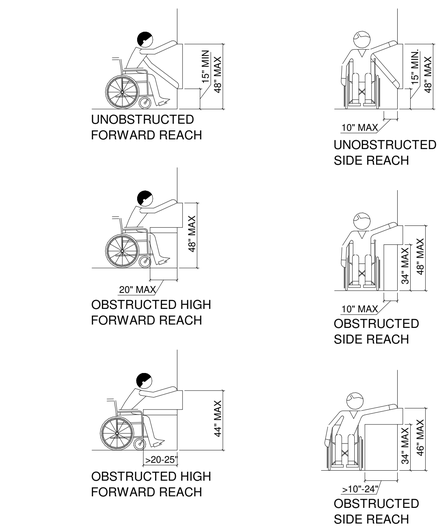
PROJECT NUMBER

1707.3

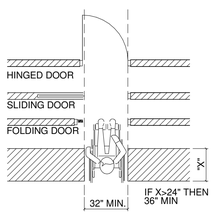
MIN. CLEAR FLOOR SPACES

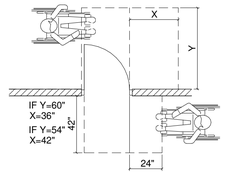


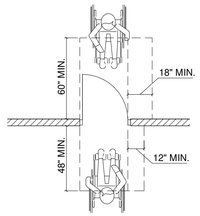
REACH RANGES

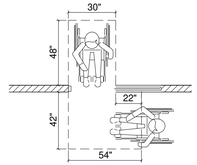


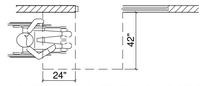
DOOR CLEARANCES

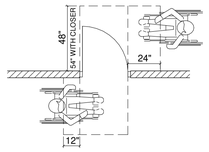


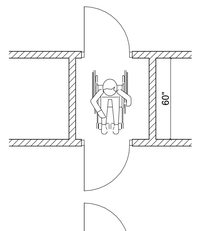


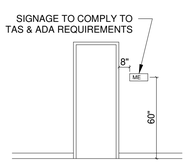




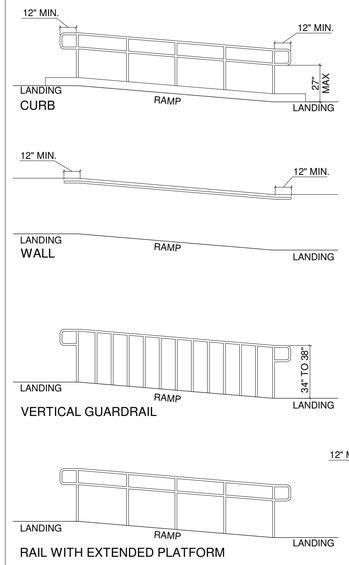




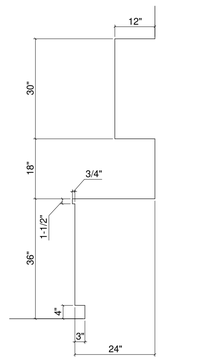


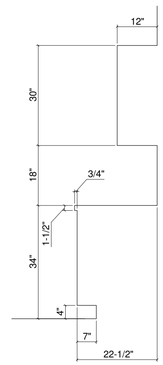


RAMPS & HANDRAIL STANDARDS

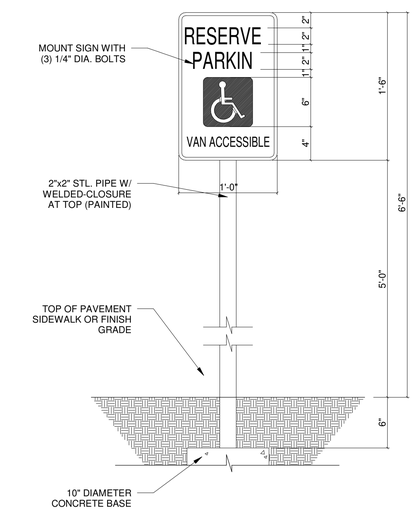


STANDARD CABINET

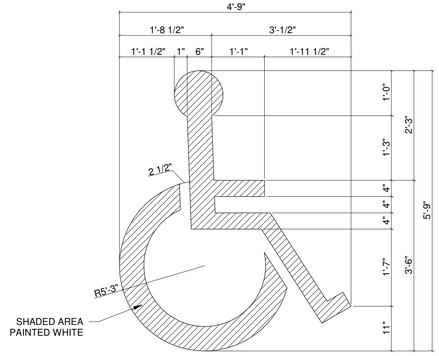




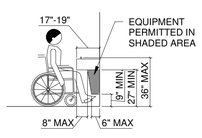
ACCESSIBLE PARKING STALL

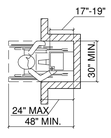


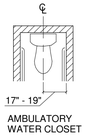
ACCESSIBLE SYMBOL PARKING

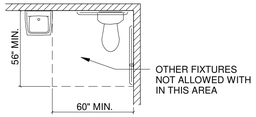


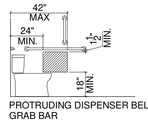
PLUMBING ELEMENTS AND FACILITIES

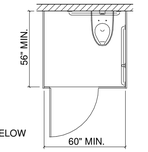


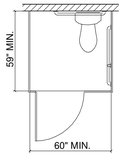












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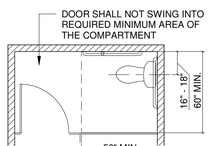
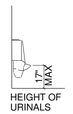
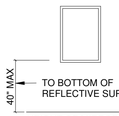
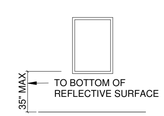
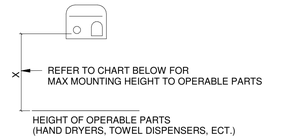
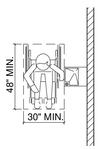


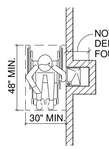




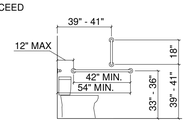


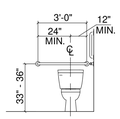


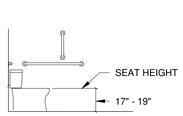




DRINKING FOUNTAINS

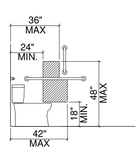




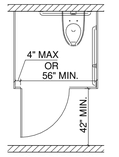


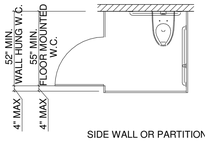
WATER CLOSETS AND TOILET COMPARTMENT

NOTE: FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 309 ICC A117.1-2009. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE FOR THE WATER CLOSET.

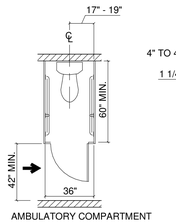


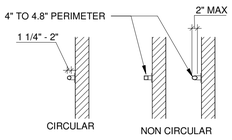
DISPENSER OUTLET LOCATION





ACCESSIBLE COMPARTMENT DOOR OPENINGS





MAXIMUM REACH DEPTH	0.5 INCH	2 INCHES	5 INCHES	6 INCHES	9 INCH	11 INCH
MAXIMUM REACH HEIGHT	48 INCHES	46 INCHES	42 INCHES	40 INCHES	36 INCHES	34 INCHES

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ARCHITECT'S SEAL

STATE OF OKLAHOMA
ANTHONY DAVID MODERMO
19676
LICENSED ARCHITECT

04.30.2021

PROJECT

MOORE PUBLIC WORKS

512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS

04.30.2021

100% ISSUE FOR BID

SHEET TITLE

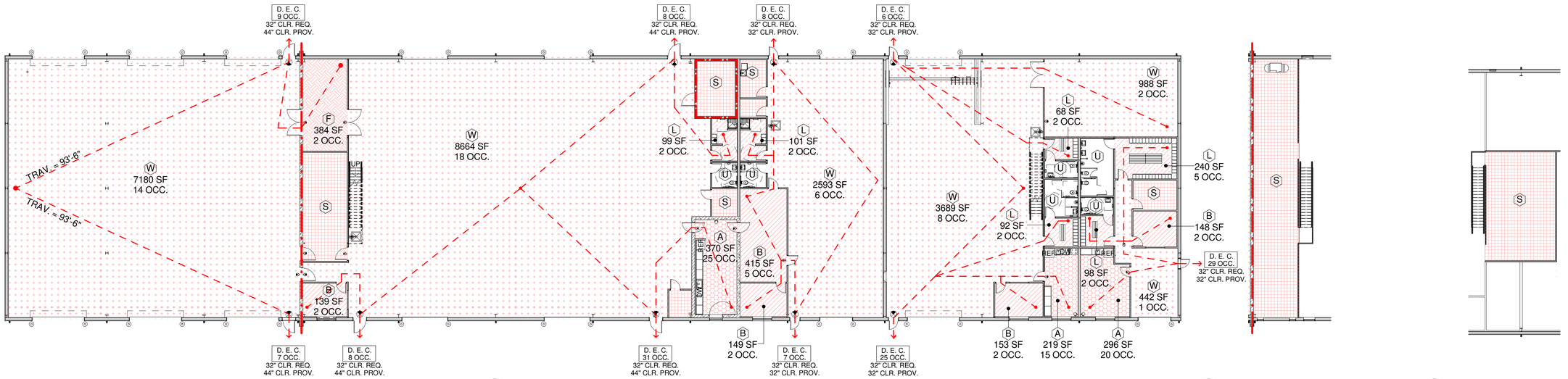
ADA STANDARDS

SHEET NUMBER

G111

PROJECT NUMBER

1707.3



01 BUILDING A EGRESS PLAN
1/16" = 1'-0"

03 MEZZANINE PLAN
1/16" = 1'-0"

04 MEZZANINE PLAN
1/16" = 1'-0"

CITY OF MOORE - PUBLIC WORKS BUILDING

INTERNATIONAL BUILDING CODE - 2015			
OCCUPANCY:	S-1	MODERATE HAZARD STORAGE	306
		SPRINKLED BUILDING	
	142	OCCUPANT LOAD	1004
CONSTRUCTION TYPE:	IIB		602
ALLOWABLE AREA:	70,000 S.F.		506
ALLOWABLE AREA CALC.:	If = 1.5	If = (884 / 884 - 0.25) 60 / 30	506.3
FRONTAGE INCREASE:	96,250 S.F.	Aa = 70,000 + (17,500 x 1.5)	506.2.1
TOTAL BLDG. AREA S.F.	29,722 S.F.		
FIRE RESISTANCE RATING FOR BUILDING ELEMENTS:			
STRUCTURAL FRAME:	0 HOUR	-	601
BEARING WALLS:	0 HOUR	-	601
NON-BEARING WALLS:	0 HOUR	-	601
FLOOR CONSTRUCTION:	0 HOUR	-	601
ROOF CONSTRUCTION:	0 HOUR	-	601
FIRE AND PARTY WALLS:	3 HOUR	-	706
EXIT CORRIDORS:	0 HOUR	-	1020.1
EGRESS WIDTH REQUIREMENTS			
EGRESS WIDTH:	0.2	INCHES PER OCCUPANT SERVED	1005.3.2
CORRIDOR WIDTH:	44" MIN.	-	1020.2
DEAD END CORRIDORS:	0	-	1020.4
EXITS REQUIRED:	2	-	1006.3.1
EXITS PROVIDED:	10	-	
TRAVEL DISTANCE:	93'-6"	-	
MAX DISTANCE TO EXIT:	250'-0"	-	1017.2
PLUMBING FIXTURE COUNT - BUILDING A.1 AND A.2			
GROUP S-1:		50% FEMALE AND 50% MALE	
WATER CLOSETS MEN:	5 PROVIDED	2 REQUIRED	2902.1
WATER CLOSETS WOMEN:	2 PROVIDED	2 REQUIRED	2902.1
WATER CLOSETS UNI-SEX:	2 PROVIDED	0 REQUIRED	
LAVATORIES MEN:	3 PROVIDED	2 REQUIRED	2902.1
LAVATORIES WOMEN:	2 PROVIDED	2 REQUIRED	
DRINKING FOUNTAINS	3 PROVIDED	2 REQUIRED	2902.1
SERVICE SINKS	1 PROVIDED	1 REQUIRED	2902.1

LEGEND

TRAV.	TRAVEL DISTANCE
OCC.	OCCUPANTS
	2 HOUR RATED WALL
	3 HOUR RATED WALL
	PATH OF EGRESS
XX S.F.	ROOM SQUARE FOOTAGE
D.E.C. XX OCC.	DOOR EGRESS CAPACITY
	ASSEMBLY - ACCESSORY USE GROUP
	BUSINESS - ACCESSORY USE GROUP
	FABRICATION
	LOCKER ROOMS - ACCESSORY USE GROUP
	STORAGE / MECH. ELECT. - ACCESSORY USE GROUP
	UNCOUNTED AREA - ACCESSORY USE GROUP
	WAREHOUSE

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SHEET TITLE

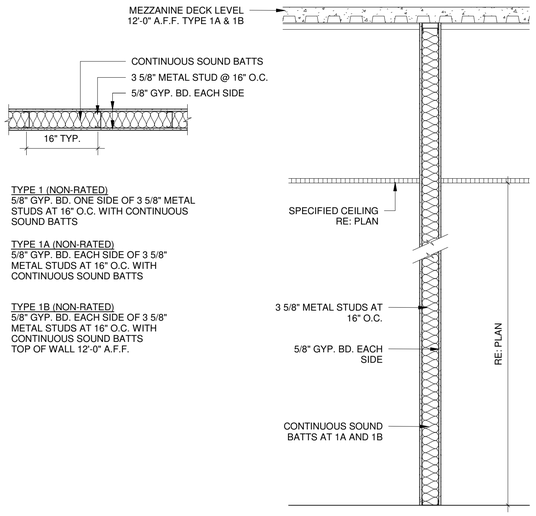
CODE SHEET

SHEET NUMBER

G210

PROJECT NUMBER

1707.3

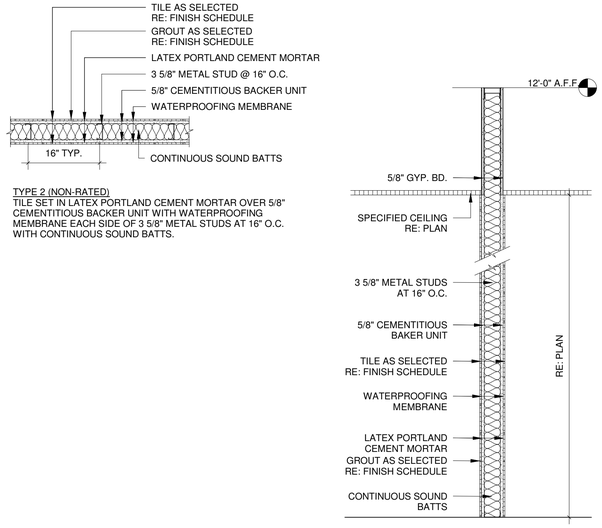


TYPE 1 (NON-RATED)
5/8" GYP. BD. ONE SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS

TYPE 1A (NON-RATED)
5/8" GYP. BD. EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS

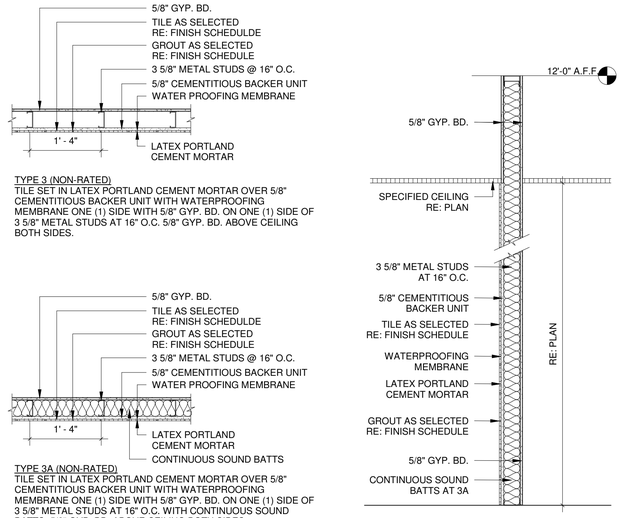
TYPE 1B (NON-RATED)
5/8" GYP. BD. EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS TOP OF WALL 12'-0" A.F.F.

1B 1A 1 NON-RATED
SCALE: 3/4" = 1'-0"



TYPE 2 (NON-RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 5/8" CEMENTITIOUS BACKER UNIT WITH WATERPROOFING MEMBRANE EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS.

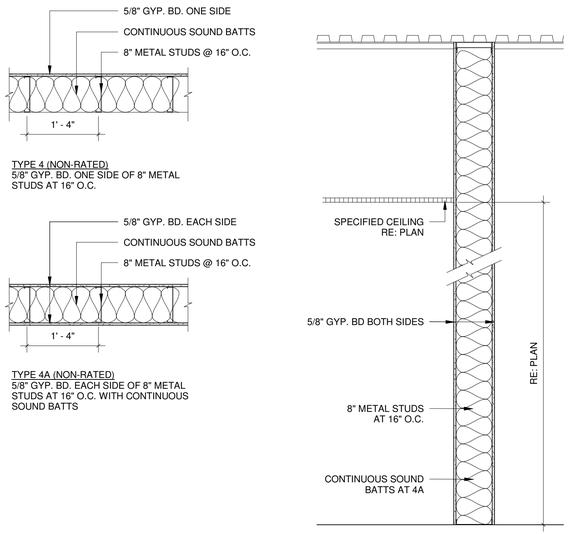
2 NON-RATED
SCALE: 3/4" = 1'-0"



TYPE 3 (NON-RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 5/8" CEMENTITIOUS BACKER UNIT WITH WATERPROOFING MEMBRANE ONE (1) SIDE WITH 5/8" GYP. BD. ON ONE (1) SIDE OF 3 5/8" METAL STUDS AT 16" O.C. 5/8" GYP. BD. ABOVE CEILING BOTH SIDES.

TYPE 3A (NON-RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 5/8" CEMENTITIOUS BACKER UNIT WITH WATERPROOFING MEMBRANE ONE (1) SIDE WITH 5/8" GYP. BD. ON ONE (1) SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS. 5/8" GYP. BD. ABOVE CEILING BOTH SIDES.

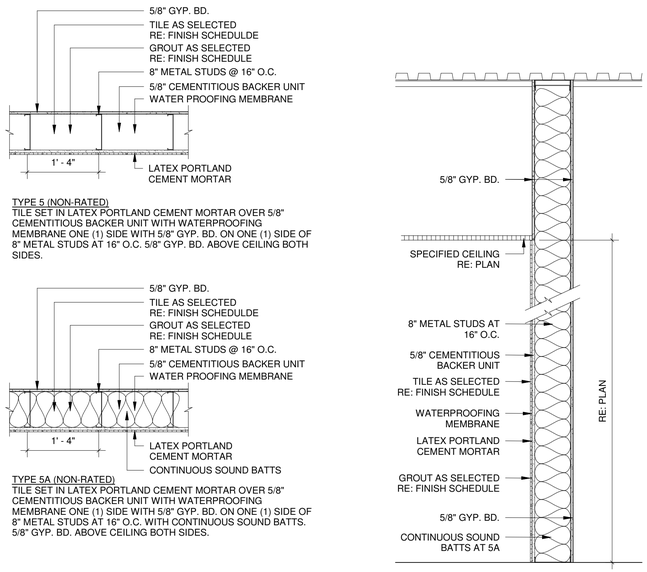
3A 3 NON-RATED
SCALE: 3/4" = 1'-0"



TYPE 4 (NON-RATED)
5/8" GYP. BD. ONE SIDE OF 8" METAL STUDS AT 16" O.C.

TYPE 4A (NON-RATED)
5/8" GYP. BD. EACH SIDE OF 8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS

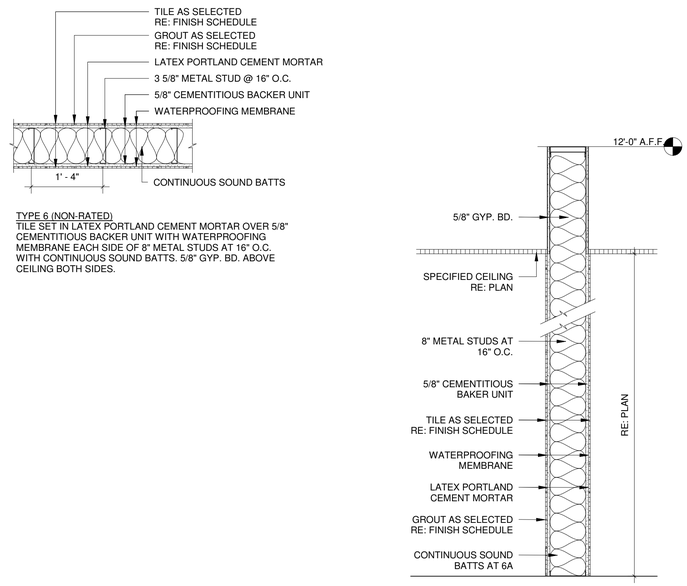
4A 4 NON-RATED
SCALE: 3/4" = 1'-0"



TYPE 5 (NON-RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 5/8" CEMENTITIOUS BACKER UNIT WITH WATERPROOFING MEMBRANE ONE (1) SIDE WITH 5/8" GYP. BD. ON ONE (1) SIDE OF 8" METAL STUDS AT 16" O.C. 5/8" GYP. BD. ABOVE CEILING BOTH SIDES.

TYPE 5A (NON-RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 5/8" CEMENTITIOUS BACKER UNIT WITH WATERPROOFING MEMBRANE ONE (1) SIDE WITH 5/8" GYP. BD. ON ONE (1) SIDE OF 8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS. 5/8" GYP. BD. ABOVE CEILING BOTH SIDES.

5 NON-RATED
SCALE: 3/4" = 1'-0"



TYPE 6 (NON-RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 5/8" CEMENTITIOUS BACKER UNIT WITH WATERPROOFING MEMBRANE EACH SIDE OF 8" METAL STUDS AT 16" O.C. WITH CONTINUOUS SOUND BATTS. 5/8" GYP. BD. ABOVE CEILING BOTH SIDES.

6 NON-RATED
SCALE: 3/4" = 1'-0"

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ARCHITECT'S SEAL

STATE OF OKLAHOMA
ANTHONY DAVID MODERMO
19676
LICENSED ARCHITECT

04.30.2021

PROJECT

MOORE PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS

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100% ISSUE FOR BID

SHEET TITLE

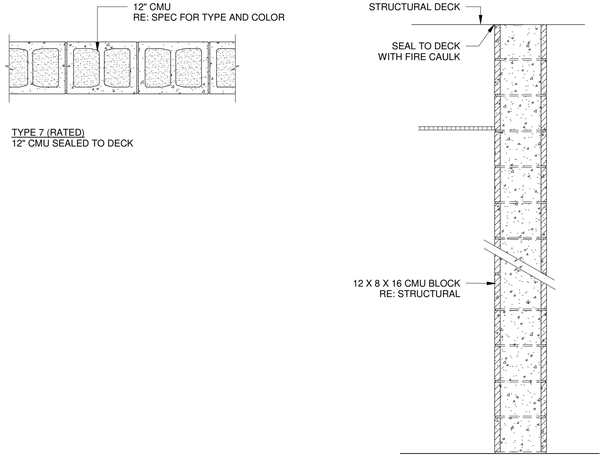
PARTITION TYPES

SHEET NUMBER

G310

PROJECT NUMBER

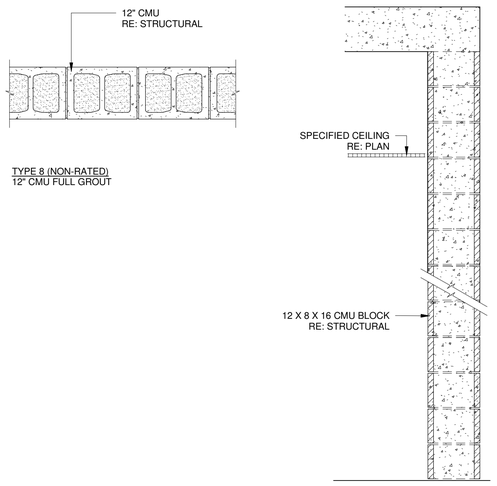
1707.3



TYPE 7 (RATED)
12" CMU SEALED TO DECK

7 2 HR. RATED

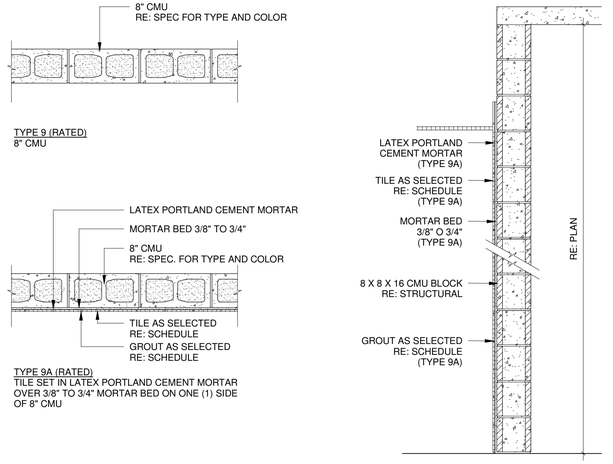
SCALE: 3/4" = 1'-0"



TYPE 8 (NON-RATED)
12" CMU FULL GROUT

8 NON-RATED

SCALE: 3/4" = 1'-0"



TYPE 9 (RATED)
8" CMU

TYPE 9A (RATED)
TILE SET IN LATEX PORTLAND CEMENT MORTAR OVER 3/8" TO 3/4" MORTAR BED ON ONE (1) SIDE OF 8" CMU

9A 9 3 HR. RATED PARTITION

SCALE: 3/4" = 1'-0"

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ARCHITECT'S SEAL

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17676
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04.30.2021

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MOORE, OKLAHOMA 73160

ISSUES
REVISIONS

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100% ISSUE FOR BID

SHEET TITLE

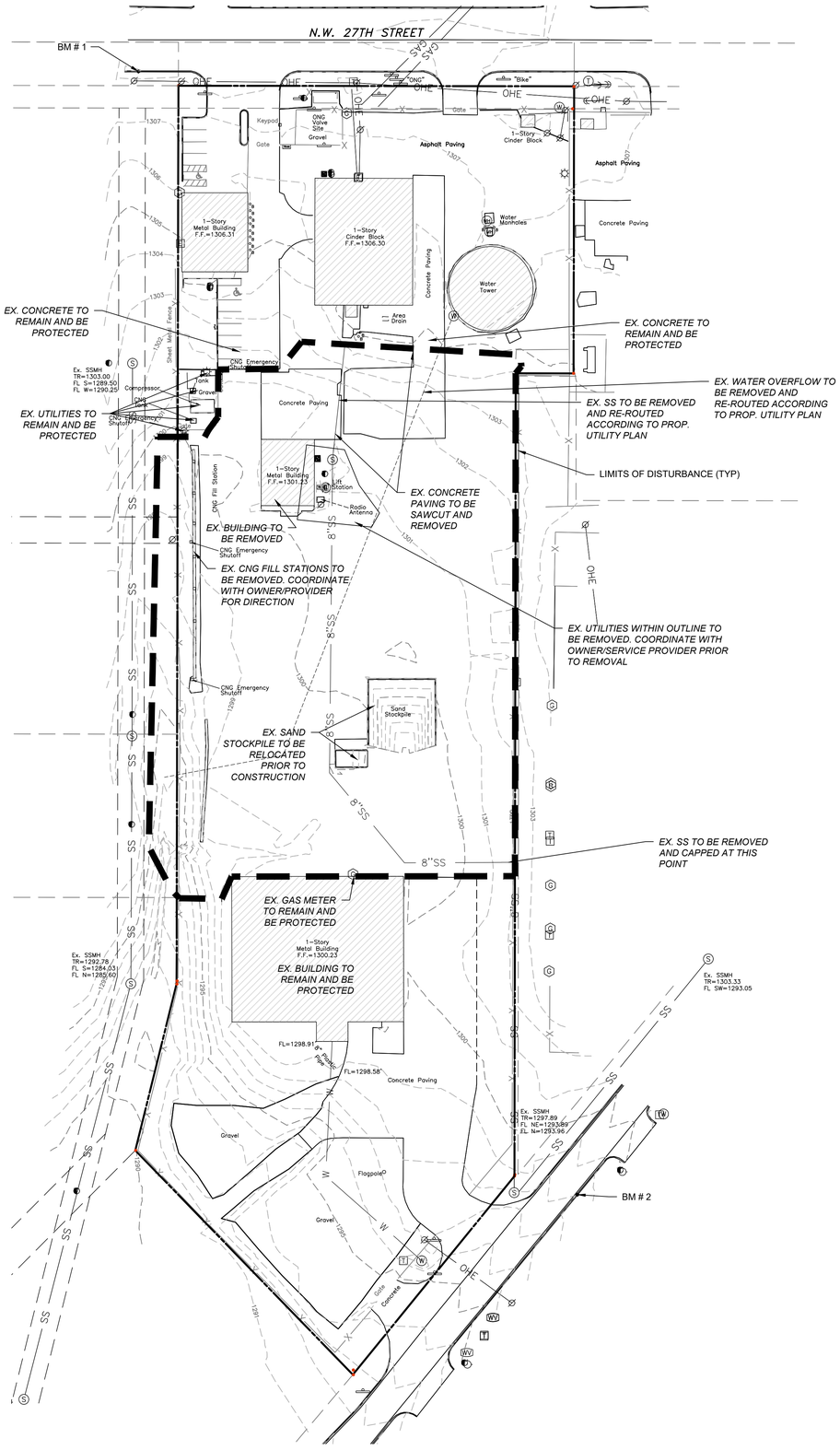
PARTITION TYPES

SHEET NUMBER

G311

PROJECT NUMBER

1707.3



LEGEND

- BOUNDARY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- EXISTING CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED FIRE LANE STRIPING
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- GAS — GAS LINE
- UGT — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- 8"SS — SANITARY SEWER
- 8"W — WATERLINE
- BENCHMARK

- FIRE HYDRANT
- WATER VALVE
- EX. WATER METER PIT
- EX. WATER METER
- PROP. WATER METER
- EX. SPRINKLER VALVE
- EX. AUTO SPRINKLER
- EX. ELECT. PEDESTAL
- EX. ELECT. TRANSFORMER
- EX. ELECT. METER
- PROP. ELECT. METER
- EX. AIR CONDITIONER
- EX. SIGNAGE
- EX. LIGHT POLE
- PROP. LIGHT POLE
- EX. BOLLARD
- EX. POWER POLE
- PROP. POWER POLE
- EX. TELEPHONE PED.
- EX. TELEPHONE MANHOLE
- EX. TRAFFIC SIGNAL LIGHT
- EX. TRAFFIC CONTROL BOX
- EX. FLAG POLE
- EX. YARD LIGHT
- EX. GREASE TRAP
- EX. SS MANHOLE
- PROP. SS MANHOLE
- EX. GAS METER
- PROP. GAS METER
- EX. ELECT. MANHOLE
- EX. STORM MANHOLE

BENCHMARK DATA

BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

VERTICAL DATUM:
NAVD 88 OKC GPS MONUMENT

NOTE:CONTRACTOR SHALL ENSURE THAT PEDESTRIAN AND FIRE ACCESS TO THE EXISTING BUILDING IS PROVIDED AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.

NOTE: CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO EXISTING PAVEMENT DUE TO CONSTRUCTION.

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE EGRESS AND INGRESS TO AND FROM SITE ALL ALL TIMES, AS WELL AS ALONG PUBLIC STREETS.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL ABIDE BY ALL FEDERAL, STATE AND LOCAL CODES FOR THE DEMOLITION AND DISPOSAL OF ALL MATERIALS.
2. CEDAR CREEK CONSULTING, INC. SHALL NOT BE LIABLE FOR ANY DEMOLITION PROCEDURES, SCHEDULING, AND DISPOSING OF ANY MATERIALS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SURE THAT THE PROPERTY IS NOT DAMAGED AND IS ACCESSIBLE AT ALL TIMES, AND THAT CONSTRUCTION DOES NOT CREATE ANY HARDSHIP TO LAND OWNERS.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
5. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE DISCONNECTION, REMOVAL AND RELOCATION OF ALL UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR SERVICES. THE CONTRACT IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
8. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDINGS.
9. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
10. THE CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
11. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO DEMOLITION.
12. THE CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC., THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
13. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY INCLUDING FENCING AND CONSTRUCTION TRAILER AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
14. THE CONTRACTOR SHALL COORDINATE WATERMAIN WORK WITH THE FIRE DEPARTMENT, THE CITY UTILITY DEPARTMENT TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGHOUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT-OFFS WITH THE CITY/COUNTY DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT-OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
15. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE. REPAIRS SHALL RESTORE DAMAGED ITEMS TO EQUAL OR BETTER THAN EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFYING THE CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
16. ALL TRENCHES AND/OR EXCAVATED AREAS SHALL BE FILLED /TESTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT.
17. IF SEPTIC TANKS ARE FOUND PRESENT WITHIN THE LIMITS OF DISTURBANCE, THEY SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.
18. IF THE CONTRACTOR FINDS ANY UNDERGROUND TANKS ON SITE, THEY SHALL CONTACT THE ENGINEER IMMEDIATELY.
19. ALL WELLS SHALL BE CAPPED AND CLOSED IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL LAWS.
20. ALL ITEMS WITHIN LIMITS OF DEMOLITION SHALL BE REMOVED UNLESS OTHERWISE NOTED.
21. CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS.
22. CONTRACTOR IS TO VERIFY LOCATION OF EXISTING IRRIGATION SYSTEM, VALVE BOXES, CONTROL BOXES, BACKFLOW PREVENTION DEVICES AND LIGHTING CONDUIT. IF DAMAGED THEY MUST BE REPAIRED AT CONTRACTOR'S EXPENSE.

N

SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG 811 OR 1-800-522-OKIE CALL OKIE

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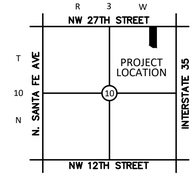
LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

LICENSED PROFESSIONAL ENGINEER
JASON ANDREW EMMERT
4.30.21
24022
OKLAHOMA

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

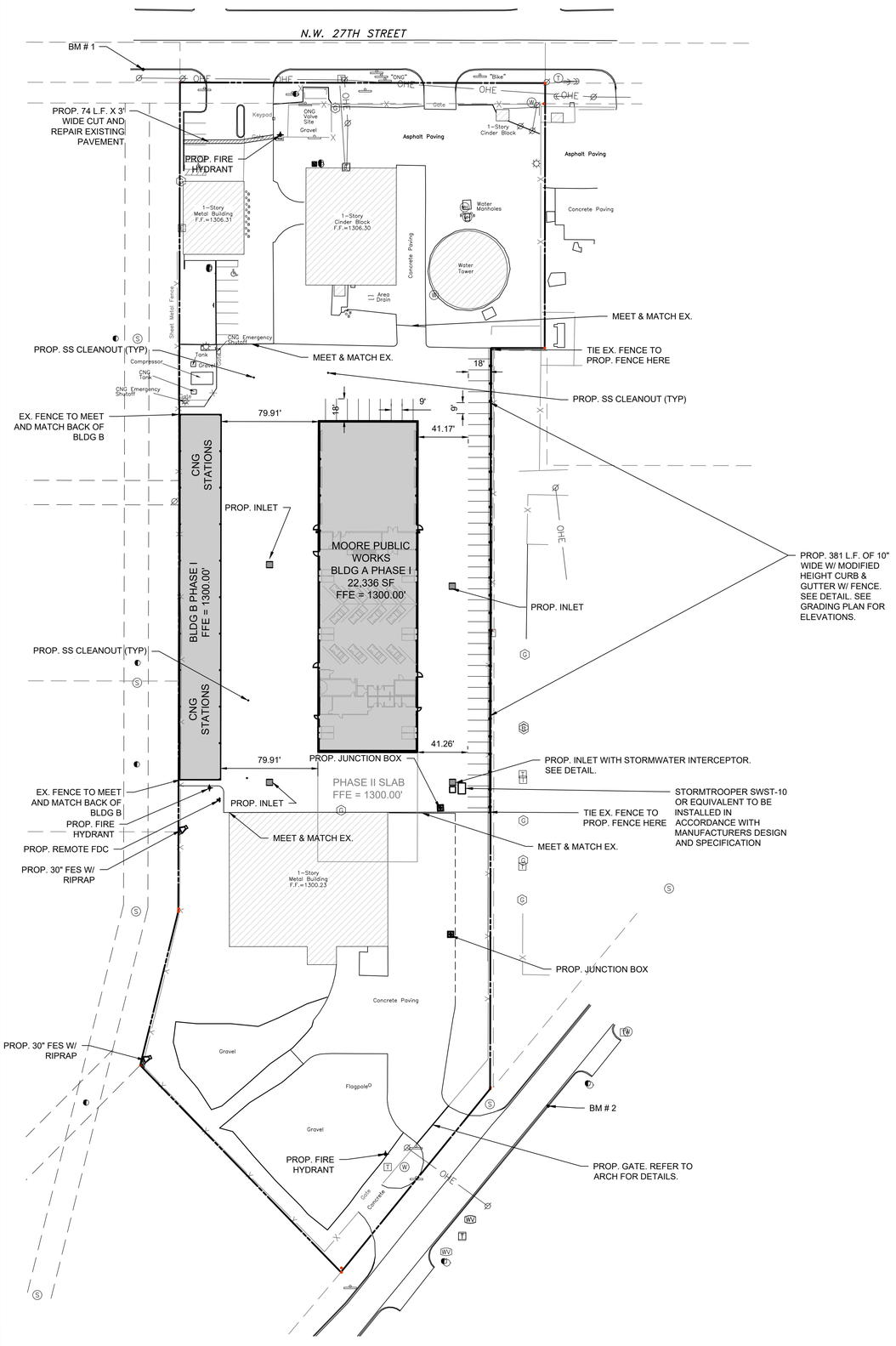
MARK	DATE	DESCRIPTION

DRAWING TITLE:

DEMOLITION PLAN

SHEET:

C1.00



BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

LEGEND

- BOUNDARY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- EXISTING CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED FIRE LANE STRIPING
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- GAS — GAS LINE
- UGT — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- 8"SS — SANITARY SEWER
- 8"W — WATERLINE
- BENCHMARK

- FIRE HYDRANT
- WATER VALVE
- EX. WATER METER PIT
- EX. WATER METER
- PROP. WATER METER
- EX. SPRINKLER VALVE
- EX. AUTO SPRINKLER
- EX. ELECT. PEDESTAL
- EX. ELECT. TRANSFORMER
- EX. ELECT. METER
- PROP. ELECT. METER
- EX. AIR CONDITIONER
- EX. SIGNAGE
- EX. LIGHT POLE
- PROP. LIGHT POLE
- EX. BOLLARD
- EX. POWER POLE
- PROP. POWER POLE
- EX. TELEPHONE PED.
- EX. TELEPHONE MANHOLE
- EX. TRAFFIC SIGNAL LIGHT
- EX. TRAFFIC CONTROL BOX
- EX. FLAG POLE
- EX. YARD LIGHT
- EX. GREASE TRAP
- EX. SS MANHOLE
- PROP. SS MANHOLE
- EX. GAS METER
- PROP. GAS METER
- EX. ELECT. MANHOLE
- EX. STORM MANHOLE
- PROP. INLETS (SEE GRADING PLAN FOR TYPE)
- VERTICAL SEPARATION REQUIREMENT

NOTE: CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL PROPOSED WORK MEETS ADA REQUIREMENTS. REFER TO www.access-board.gov/ada-aba/ada-standards-doj.cfm

NOTE: CONTRACTOR SHALL CONSTRUCT AND INSTALL WHEEL STOPS, SIGNS, AND ADA RAMPS AT ALL HANDICAP SPACES.

SITE NOTES

A. CONTRACTOR SHALL REFER TO THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE WRITTEN SPECIFICATIONS, CONSTRUCTION DRAWINGS, STORM WATER POLLUTION PLAN, AND GEOTECHNICAL REPORT.

B. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE OWNERS DESIGN GUIDELINES AND SPECIFICATIONS, AND WHERE APPLICABLE SHALL MEET THE REQUIREMENTS OF THE GOVERNING/PERMITTING AUTHORITY HAVING JURISDICTION.

C. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.

D. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS/PROPERTY LINES/UTILITIES/DRAINAGE PRIOR TO CONSTRUCTION START.

E. ALL WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE CONSIDERED AS INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

F. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND MEP PLANS AND SPECIFICATIONS BEING A PART OF THE CONSTRUCTION DOCUMENTS FOR THE EXACT LOCATIONS AND DIMENSIONS OF ENTRY, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE, AND DOWNSPOUT LOCATIONS/SPECIFICATIONS/DETAILS.

G. ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB (FC) UNLESS OTHERWISE NOTED.

H. PARKING LOT STRIPING SHALL BE 4" WIDE AND WHITE IN COLOR. HANDICAP PARKING STALLS STRIPING AND SIGNAGE SHALL BE IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.

I. UNLESS OTHERWISE NOTED ALL RADII SHALL BE 3'.

J. BUILDING DIMENSIONS ARE TO OUTSIDE OF MASONRY, UNLESS OTHERWISE SHOWN.

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L. REFER TO ARCHITECTURE PLANS FOR SITE LIGHTING AND ELECTRICAL CONDUIT PLANS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND ADJUST ANY CONSTRUCTED CONFLICTS WITH UNDERGROUND UTILITIES, SIDEWALKS, ETC.

M. CHECK ARCHITECTURAL PLANS FOR EXACT DOWNSPOUT LOCATIONS.

N. CONTRACTOR SHALL REFER TO LANDSCAPE AND IRRIGATION PLAN FOR LOCATION AND CONSTRUCTION DETAILS OF LANDSCAPING AND IRRIGATION.

N

SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG 811 IT'S THE LAW CALL OKIE

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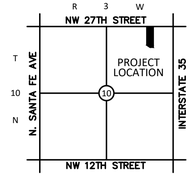
EXP. 06/30/20

LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

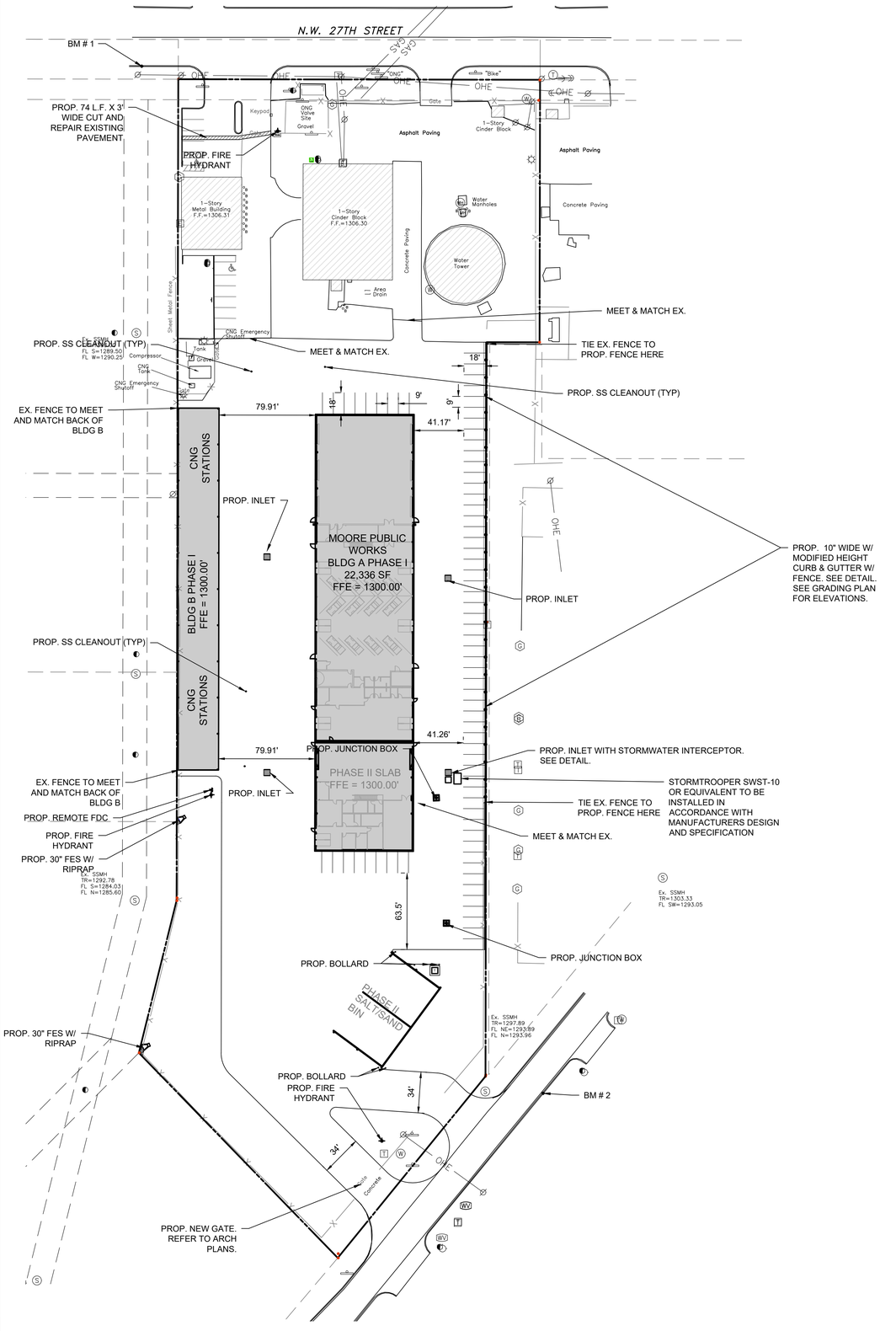
MARK	DATE	DESCRIPTION

DRAWING TITLE:

SITE PLAN

SHEET:

C2.00



BENCHMARK – BM 1	
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LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

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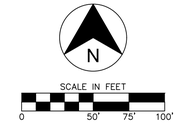

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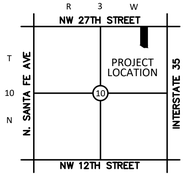
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

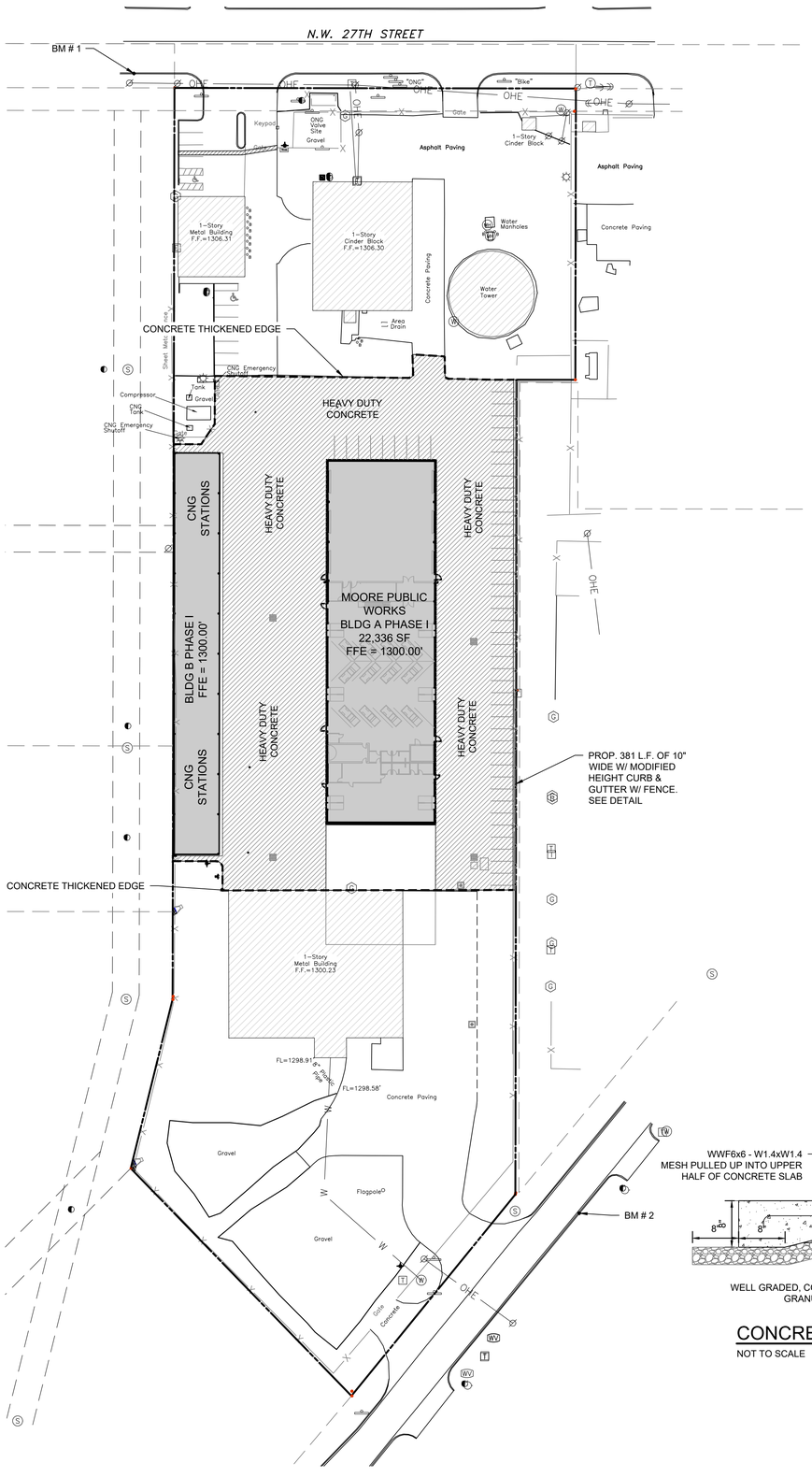
MARK	DATE	DESCRIPTION

DRAWING TITLE:

SITE PLAN PHASE II

SHEET:

C2.01



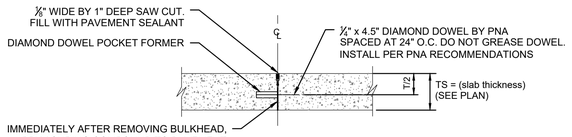
BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

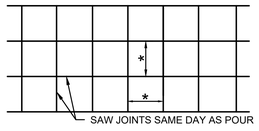
PAVING LEGEND

- SIDEWALK PAVEMENT
- HEAVY DUTY DUMPSTER CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- LIGHT DUTY CONCRETE PAVEMENT
- ASPHALT TO CONCRETE THICKENED EDGE

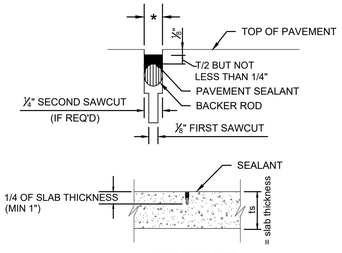
NOTE:
CONTRACTOR SHALL INSTALL PAVING SECTION PER OWNERS DIRECTION



CONSTRUCTION JOINT



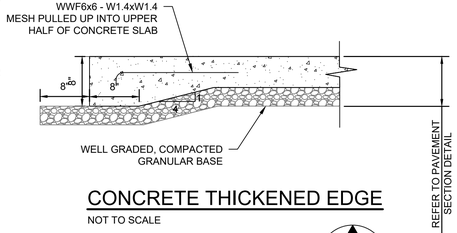
CONCRETE PAVEMENT
PLAN VIEW



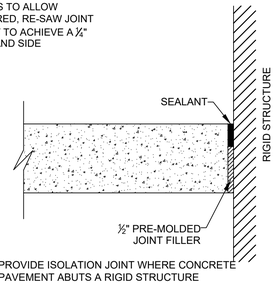
SAW JOINT

* = WAIT AS LONG AS FEASIBLE TO SEAL JOINTS TO ALLOW CONCRETE SHRINKAGE TO OCCUR. IF REQUIRED, RE-SAW JOINT IMMEDIATELY PRIOR TO INSTALLING SEALANT TO ACHIEVE A ¼" JOINT WIDTH. ENSURE JOINT IS CLEAN, DRY AND SIDE PREPARED PER MFR'S RECOMMENDATIONS.

CONCRETE TO ASPHALT THICKENED EDGE
NOT TO SCALE

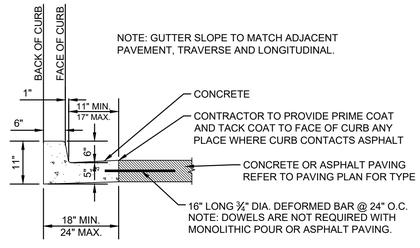


CONCRETE THICKENED EDGE
NOT TO SCALE



PROVIDE ISOLATION JOINT WHERE CONCRETE PAVEMENT ABUTS A RIGID STRUCTURE

ISOLATION JOINT
NOT TO SCALE



CURB & GUTTER DETAIL
NOT TO SCALE

N

SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG 811 OKIE LOCATE & MARK CALL OKIE

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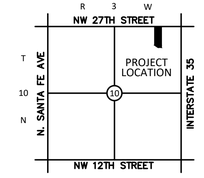
LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

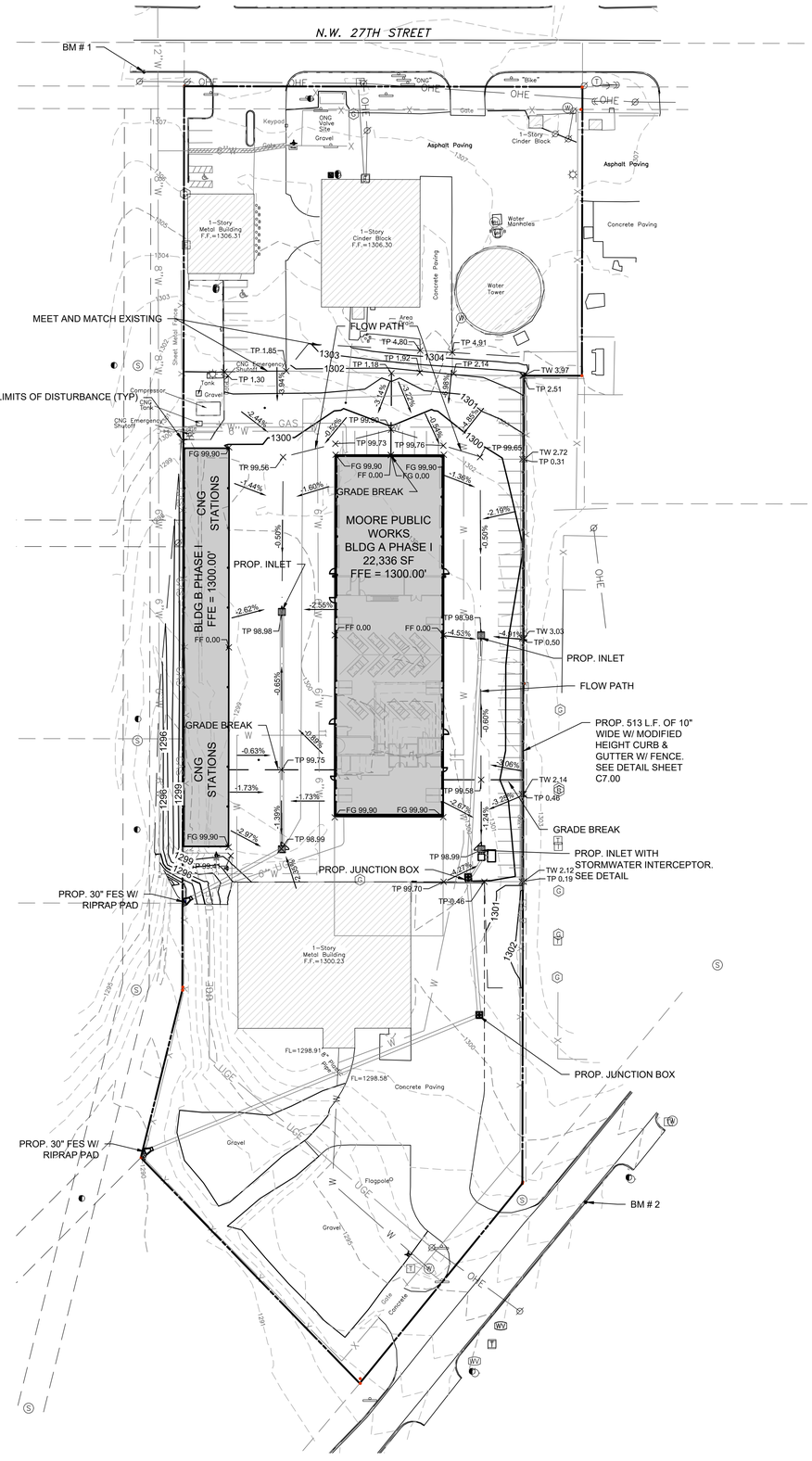
MARK	DATE	DESCRIPTION

DRAWING TITLE:

PAVING PLAN

SHEET:

C3.00



BENCHMARK – BM 1	
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LEGEND

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- EX. STORM MANHOLE
- PROP. INLETS (SEE GRADING PLAN FOR TYPE)
- VS — VERTICAL SEPARATION REQUIREMENT

GRADING NOTES

A. CONTRACTOR SHALL REFER TO THE SITE SPECIFIC GEOTECHNICAL REPORT FOR EXISTING SOIL CONDITIONS, CONSIDERATIONS, AND RECOMMENDATIONS.

B. CONTRACTOR SHALL REFER TO THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE WRITTEN SPECIFICATIONS, CONSTRUCTION DRAWINGS, STORM WATER POLLUTION PLAN, AND GEOTECHNICAL REPORT.

C. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.

D. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS/PROPERTY LINES/UTILITIES/DRAINAGE PRIOR TO CONSTRUCTION START.

E. ALL SITE EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION.

F. GENERAL CONTRACTOR TO PROVIDE A UNIT PRICE FOR REMOVAL AND REPLACEMENT OF SOILS ON THIS SITE SHOULD REMOVAL BE REQUIRED.

G. ALL WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE CONSIDERED AS INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

H. CONTRACTOR SHALL PROVIDE FINAL GRADES THAT DO NOT OBSTRUCT ANY UTILITY ACCESS AND PROVIDE A SMOOTH TRANSITION TO MEET AND MATCH EXISTING GRADES ON ALL SIDES.

I. ADA ROUTES ARE NOT TO EXCEED 1:20 RUNNING SLOPE AND 2% CROSS SLOPE. HANDICAP PARKING AND ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

J. ALL NATURAL GROUND SLOPES SHALL NOT EXCEED 3:1. PAVING SLOPES SHALL NOT EXCEED 8%.

K. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY EARTH DISTURBING PERMITS HAVE BEEN ACQUIRED AND MEET THE CONDITIONS/REQUIREMENTS SET FORTH IN THE PERMITS PRIOR TO CONSTRUCTION.

L. CONTRACTOR IS REQUIRED TO CALL ONE CALL AS WELL AS THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION/CONSTRUCTION ACTIVITIES TAKE PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS.

M. THE CONTRACTOR SHALL GRADE SITE TO ENSURE ALL SURFACE WATER DRAINAGE IS AWAY FROM THE BUILDING AND PROVIDES POSITIVE DRAINAGE SO THAT NO STANDING/PONDING WATER TAKES PLACE ON SITE OR ON ADJACENT PROPERTIES.

N. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE OWNERS DESIGN GUIDELINES AND SPECIFICATIONS, AND WHERE APPLICABLE SHALL MEET THE REQUIREMENTS OF THE GOVERNING/PERMITTING AUTHORITY HAVING JURISDICTION.

O. THE BUILDING SUBGRADE SHALL BE CONSTRUCTED TO INCLUDE A MINIMUM OF 10 FEET BEYOND THE BUILDING LIMITS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE OWNER.

P. REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR REQUIRED FLOOR SLAB THICKNESS.

Q. THE BUILDING PAD SUBGRADE SHALL BE PREPARED IN STRICT ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING STUDY AND THE CIVIL SPECIFICATIONS.

R. ESTABLISH FINAL SUBGRADE ELEVATIONS TO ALLOW FOR PAVEMENT/SLAB SECTIONS AS INDICATED ON THE PLANS.

S. IF CONFLICTS EXIST BETWEEN THE GEOTECHNICAL REPORT AND THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

SPOT ELEVATION LEGEND

- TC - TOP OF CURB
- G - GUTTER
- TP - TOP OF PAVEMENT
- HP - HIGH POINT
- LP - LOW POINT
- SW - SIDEWALK
- FF - FINISH FLOOR
- FG - FINAL GRADE
- TW - TOP OF WALL
- BW - BOTTOM OF WALL
- NOTE: BW IS BOTTOM OF WALL AT GRADE, NOT FOOTING
- VS — VERTICAL SEPARATION REQUIREMENT

N

SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG 811 OKIE LOCATE & MARK CALL OKIE

CEDAR CREEK
ENGINEERING • PLANNING • CONSULTING
P.O. Box 14534 Oklahoma City, OK 73113
lmills@cedarcreekinc.com
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:

NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER:	19076
DRAWING DATE:	04.30.21
ISSUE DATE:	04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

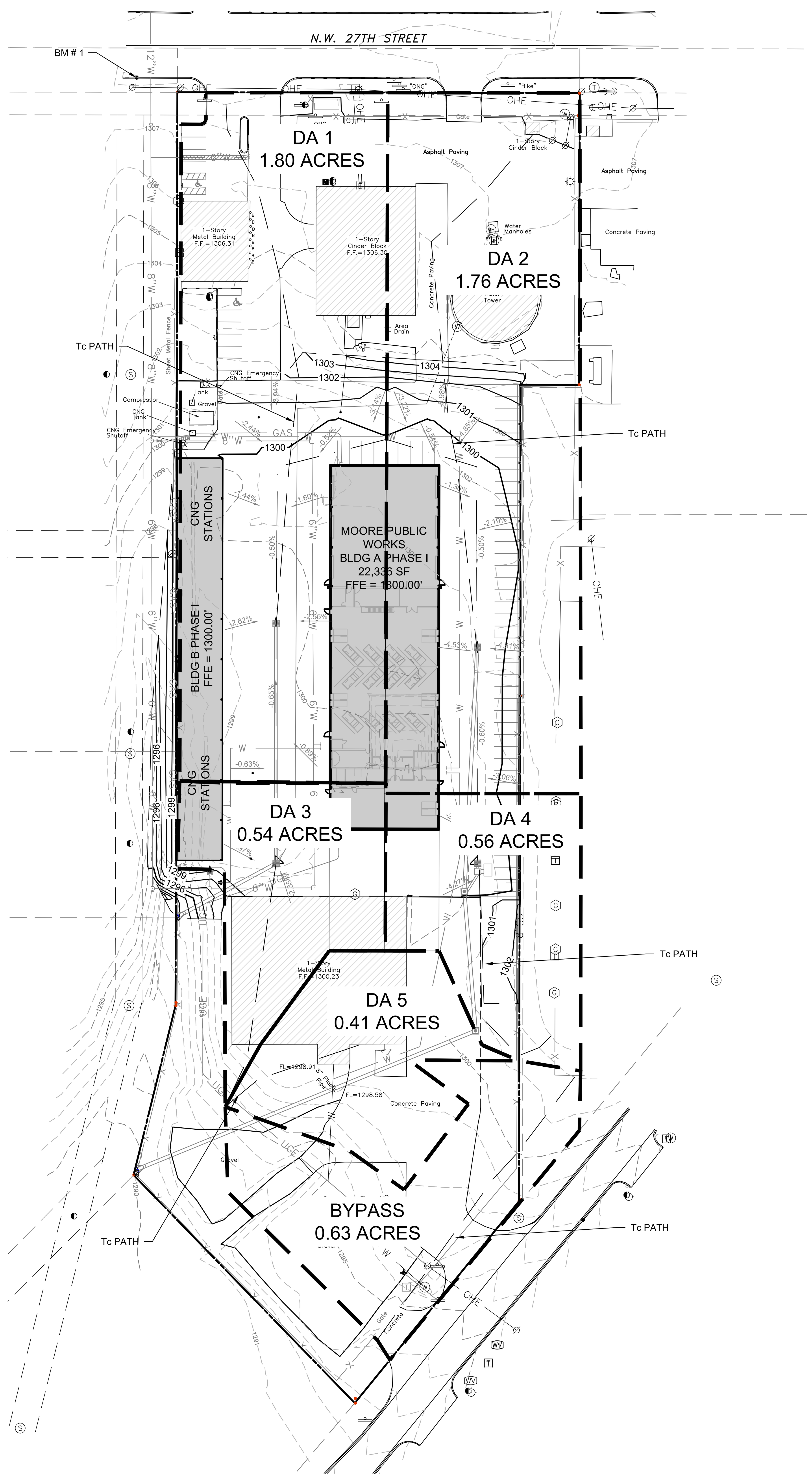
MARK	DATE	DESCRIPTION

DRAWING TITLE:

GRADING PLAN

SHEET:

C4.00



BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

DRAINAGE BASIN PEAK RUNOFF CALCULATION SPREADSHEET

PROJECT NAME:	Moore Public Works		
DESCRIPTION:	DEVELOPED	DATE:	3/12/2021
OFFICE PROJECT NUMBER:	19076.0	DESIGNER:	DH
STATE PROJECT NUMBER:		SPREADSHEET FILE NAME:	drainage calc
OKLAHOMA CLIMATE ZONE:	2		
DRAINAGE BASIN, in acres :	***5.6000***		
AVERAGE SLOPE OF THE DRAINAGE BASIN, in foot/foot:	0.0223		

In order to determine an accurate runoff coefficient, a w eighted average of the drainage basin w ill be made.

Future Anticipated Land use:	Percent of Total Area (%)	*Runoff Coefficient	Partial Area & Coefficient Product
Natural Grass:	0	0.5	0
Pasture:	0	0.45	0
Cultivated:	0	0	0
Commercial:	100	0.9	5.04
Residential:	0	0.6	0
Paved:	0	0.95	0
**Percentage of Total Area:	100	Sum of Coefficient Products:	5.04

To calculate the Weighted "C" Coefficient, divide the Sum of Coefficient Products by the total Drainage Basin.

WEIGHTED "C" COEFFICIENT TO BE USED: 0.90

Land Use	Coefficient	Land Use	Coefficient
Downtown Business Areas	0.85 - 0.95	Streets, Drives and Walks	0.90 - 0.95
Neighborhood Business Areas	0.60 - 0.75	Lawns, Parks and Cemeteries	0.30 - 0.50
Residential Areas	0.55 - 0.70	Agricultural and Pasture Land	0.50 - 0.70
Industrial Areas	0.70 - 0.80	Woodlands and Timber	0.05 - 0.25

A. Overland Flow: U.S. El= 0 D.S. El= 0

Length of overland flow, L_o, in feet: 0 (As determined by survey, USGS mapping, aerial survey, ect.)

Overland average slope, S_o, in feet: #DIV/0! (As determined by survey, USGS mapping, aerial survey, ect.)

If the overland flow path crosses different types of ground cover a w eighted "k" factor must be calculated.

Ground Cover	Percent of Total Length (%)	K Factor	Partial Length & K Factor Product
Pavement:	0	0.372	0
Commercial:	0	0.445	0
Residential:	0	0.511	0
Rocky, Bare Soil:	0	0.604	0
Cultivated:	0	0.775	0
Timber, Thin Grass:	0	0.942	0
Average Pasture:	0	1.04	0
Tall Grass:	0	1.113	0
**Percentage of Total Length:	0	Sum of "K" Factor Products:	0

WEIGHTED OVERLAND "K" FACTOR TO BE USED: **0.0000**

Therefore the time of concentration for the overland flow can be calculated from the equation:

$T_o = K(L_o)^{0.37} / S_o^{0.2}$ T_o = 0.00 minutes

B. Channel Flow:

Length of channel flow, L_f, in feet: **400.00** (As determined by survey, USGS mapping, aerial survey, etc.)

Channel average slope, S_f, in feet: **0.2250** (As determined by survey, USGS mapping, aerial survey, etc.)

Channel condition " K' " Factor: **0.0059**

Channel Condition	" K' " Factor	Channel Condition	" K' " Factor
Straight, clean stream	0.00592	Meandering stream with pools	0.0102
Average stream, few obstructions	0.00835	V-Ditch	0.01252

The time of concentration for the Channel flow can be calculated from the equation:

$T_f = K'(L_f)^{0.77} / S_f^{0.385}$ T_f = 1.06 minutes

TIME OF CONCENTRATION TO BE USED, TC = **5.00** ***minutes***

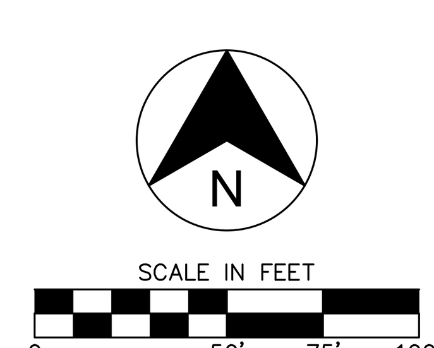
$I = a / (TC + b)$

	2 year	5 year	10 year	25 year	50 year	100 year
a =	104.333	79.655	87.535	101.482	98.925	102.769
b =	17.298	14.828	15.882	16.774	15.865	15.860
c =	0.935	0.825	0.811	0.806	0.775	0.760
Rainfall Intensity for the listed Event:	***I 2 =*** *5.73*	***I 5 =*** *6.77*	***I 10 =*** *7.44*	***I 25 =*** *8.48*	***I 50 =*** *9.38*	***I 100 =*** *10.20 in/hour*

Q = A x C x I

A - Area in units of acres
C - Runoff coefficient of the drainage basin
I - Average historical rainfall intensity in units of inches/hour

DRAINAGE BASIN RUNOFF FOR THE 100 YEAR RAINFALL EVENT:	***51.42 cfs***
DRAINAGE BASIN RUNOFF FOR THE 50 YEAR RAINFALL EVENT:	***47.29 cfs***
DRAINAGE BASIN RUNOFF FOR THE 25 YEAR RAINFALL EVENT:	***42.72 cfs***
DRAINAGE BASIN RUNOFF FOR THE 10 YEAR RAINFALL EVENT:	***37.48 cfs***
DRAINAGE BASIN RUNOFF FOR THE 5 YEAR RAINFALL EVENT:	***34.14 cfs***
DRAINAGE BASIN RUNOFF FOR THE 2 YEAR RAINFALL EVENT:	***28.87 cfs***



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LEGEND

- BOUNDARY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- EXISTING CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED FIRE LANE STRIPING
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- GAS — GAS LINE
- UGT — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- 8"SS — SANITARY SEWER
- 8"W — WATERLINE
- BENCHMARK
- FIRE HYDRANT
- WATER VALVE
- EX. WATER METER PIT
- EX. WATER METER
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- EX. SPRINKLER VALVE
- EX. AUTO SPRINKLER
- EX. ELECT. PEDESTAL
- EX. ELECT. TRANSFORMER
- EX. ELECT. METER
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- EX. SIGNAGE
- EX. LIGHT POLE
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- EX. POWER POLE
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- EX. TELEPHONE PED.
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- EX. TRAFFIC SIGNAL LIGHT
- EX. TRAFFIC CONTROL BOX
- EX. FLAG POLE
- EX. YARD LIGHT
- EX. GREASE TRAP
- EX. SS MANHOLE
- PROP. SS MANHOLE
- EX. GAS METER
- PROP. GAS METER
- EX. ELECT. MANHOLE
- EX. STORM MANHOLE
- PROP. INLETS (SEE GRADING PLAN FOR TYPE)
- VS — VERTICAL SEPARATION REQUIREMENT

GRADING NOTES

A. CONTRACTOR SHALL REFER TO THE SITE SPECIFIC GEOTECHNICAL REPORT FOR EXISTING SOIL CONDITIONS, CONSIDERATIONS, AND RECOMMENDATIONS.

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C. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.

D. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS/PROPERTY LINES/UTILITIES/DRAINAGE PRIOR TO CONSTRUCTION START.

E. ALL SITE EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED EXCAVATION.

F. GENERAL CONTRACTOR TO PROVIDE A UNIT PRICE FOR REMOVAL AND REPLACEMENT OF SOILS ON THIS SITE SHOULD REMOVAL BE REQUIRED.

G. ALL WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE CONSIDERED AS INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

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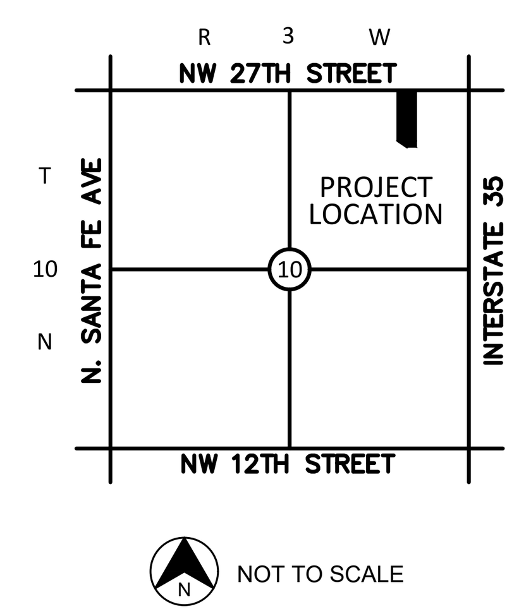
G - GUTTER	FG - FINAL GRADE
TP - TOP OF PAVEMENT	TW - TOP OF WALL
HP - HIGH POINT	BW - BOTTOM OF WALL
LP - LOW POINT	NOTE: BW IS BOTTOM OF WALL AT GRADE, NOT FOOTING
SW - SIDEWALK	

VS VERTICAL SEPARATION REQUIREMENT

CEDAR CREEK
ENGINEERING • PLANNING • CONSULTING
P.O. Box 14534 Oklahoma City, OK 73113
lmills@cedarcreekinc.com
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER:	19076
DRAWING DATE:	04.30.21
ISSUE DATE:	04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

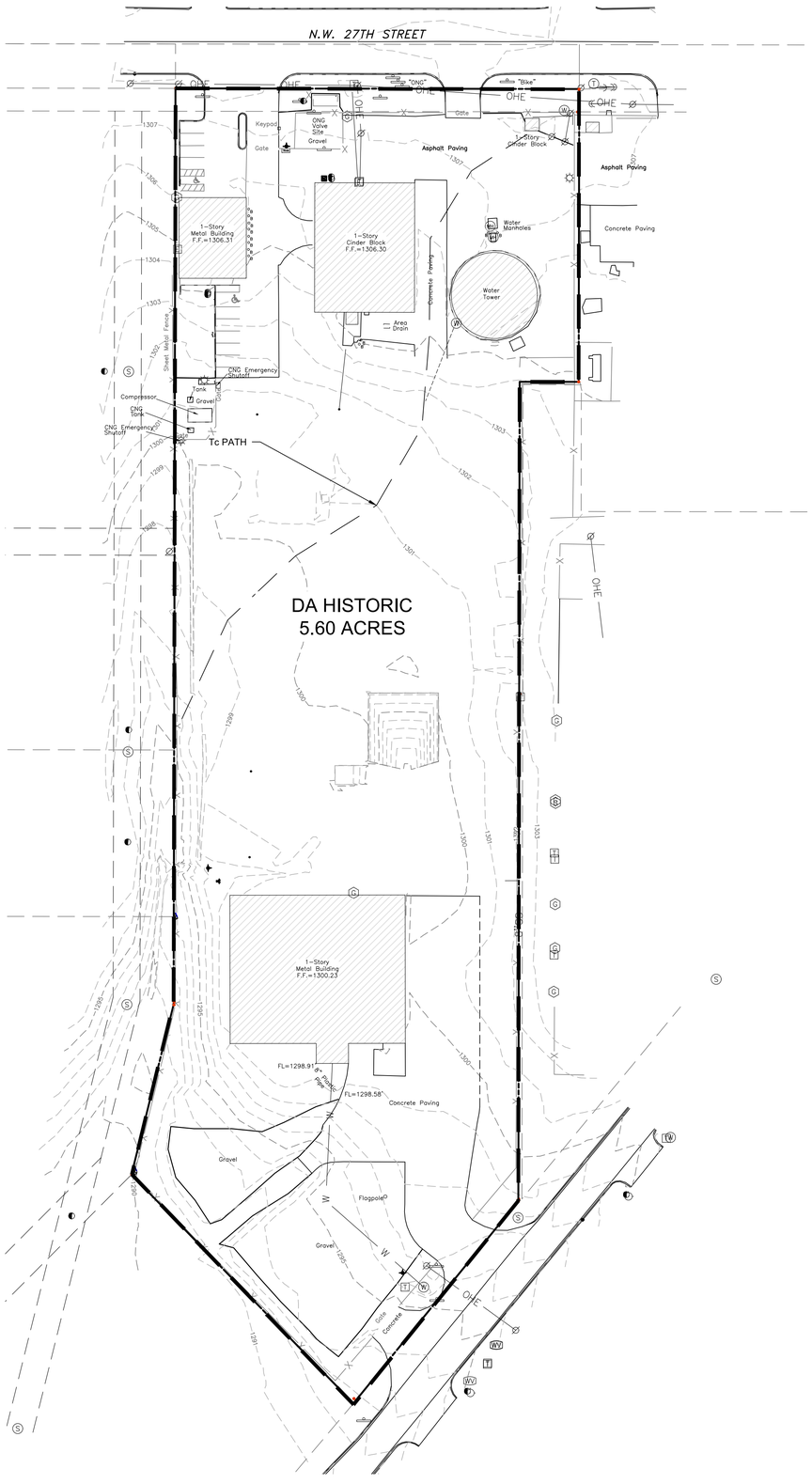
MARK	DATE	DESCRIPTION

DRAWING TITLE:

DA-DEVELOPED

SHEET:

C4.01



BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

DRAINAGE BASIN PEAK RUNOFF CALCULATION SPREADSHEET

PROJECT NAME:	Moore Public Works		
DESCRIPTION:	HISTORIC	DATE:	3/12/2021
OFFICE PROJECT NUMBER:	19076.0	DESIGNER:	DH
STATE PROJECT NUMBER:		SPREADSHEET FILE NAME:	drainage calc
OKLAHOMA CLIMATE ZONE:	2		
DRAINAGE BASIN, in acres :	5.6000		
AVERAGE SLOPE OF THE DRAINAGE BASIN, in foot/foot:	0.0223		

In order to determine an accurate runoff coefficient, a w eighted average of the drainage basin w ill be made.

Future Anticipated Land use:	Percent of Total Area (%)	*Runoff Coefficient	Partial Area & Coefficient Product
Natural Grass:	0	0.5	0
Pasture:	0	0.45	0
Cultivated:	0	0	0
Commercial:	100	0.9	5.04
Residential:	0	0.6	0
Paved:	0	0.95	0
**Percentage of Total Area:	100	Sum of Coefficient Products:	5.04

To calculate the Weighted "C" Coefficient, divide the Sum of Coefficient Products by the total Drainage Basin.

WEIGHTED "C" COEFFICIENT TO BE USED: 0.90

Land Use	Coefficient	Land Use	Coefficient
Downtown Business Areas	0.85 - 0.95	Streets, Drives and Walks	0.90 - 0.95
Neighborhood Business Areas	0.60 - 0.75	Lawns, Parks and Cemeteries	0.30 - 0.50
Residential Areas	0.55 - 0.70	Agricultural and Pasture Land	0.50 - 0.70
Industrial Areas	0.70 - 0.80	Woodlands and Timber	0.05 - 0.25

A. Overland Flow:

Length of overland flow, L_o, in feet:	0	U.S. El= 0	D.S. El= 0
Overland average slope, S_o, in feet:	#DIV/0!	(As determined by survey, USGS mapping, aerial survey, ect.)	

If the overland flow path crosses different types of ground cover a w eighted "K" factor must be calculated.

Ground Cover	Percent of Total Length (%)	K Factor	Partial Length & K Factor Product
Pavement:	0	0.372	0
Commercial:	0	0.445	0
Residential:	0	0.511	0
Rocky, Bare Soil:	0	0.604	0
Cultivated:	0	0.775	0
Timber, Thin Grass:	0	0.942	0
Average Pasture:	0	1.04	0
Tall Grass:	0	1.113	0
**Percentage of Total Length:	0	Sum of "K" Factor Products:	0

WEIGHTED OVERLAND "K" FACTOR TO BE USED: 0.0000

Therefore the time of concentration for the overland flow can be calculated from the equation:

$T_o = K(L_o)^{0.77} / S_o^{0.27}$ T_o = 0.00 minutes

B. Channel Flow:

Length of channel flow, L_f, in feet:	537.00	(As determined by survey, USGS mapping, aerial survey, etc.)
Channel average slope, S_f, in feet:	0.2230	(As determined by survey, USGS mapping, aerial survey, etc.)
Channel condition " K' " Factor:	0.0084	

Channel Condition	" K' " Factor	Channel Condition	" K' " Factor
Straight, clean stream	0.00592	Meandering stream with pools	0.0102
Average stream, few obstructions	0.00835	V-Ditch	0.01252

The time of concentration for the Channel flow can be calculated from the equation:

$T_f = K'(L_f)^{0.77} / S_f^{0.385}$ T_f = 1.88 minutes

TIME OF CONCENTRATION TO BE USED, TC = 5.00 minutes

$I = a / (TC + b)$

	2 year	5 year	10 year	25 year	50 year	100 year
a =	104.333	79.655	87.535	101.482	98.925	102.769
b =	17.298	14.828	15.882	16.774	15.865	15.860
c =	0.935	0.825	0.811	0.806	0.775	0.760
Rainfall Intensity for the listed Event:	I 2 = 5.73	I 5 = 6.77	I 10 = 7.44	I 25 = 8.48	I 50 = 9.38	I 100 = 10.20 in/hour

$Q = A \times C \times I$

A - Area in units of acres
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I - Average historical rainfall intensity in units of inches/hour

DRAINAGE BASIN RUNOFF FOR THE 100 YEAR RAINFALL EVENT:	51.42 cfs
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SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG OKLAHOMA 811 CALL OKIE

LEGEND

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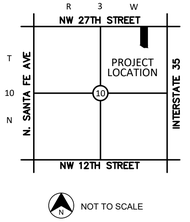
SW - SIDEWALK	

VERTICAL SEPARATION REQUIREMENT

CEDAR CREEK
ENGINEERING • PLANNING • CONSULTING
P.O. Box 14534 Oklahoma City, OK 73113
lmills@cedarcreekinc.com
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

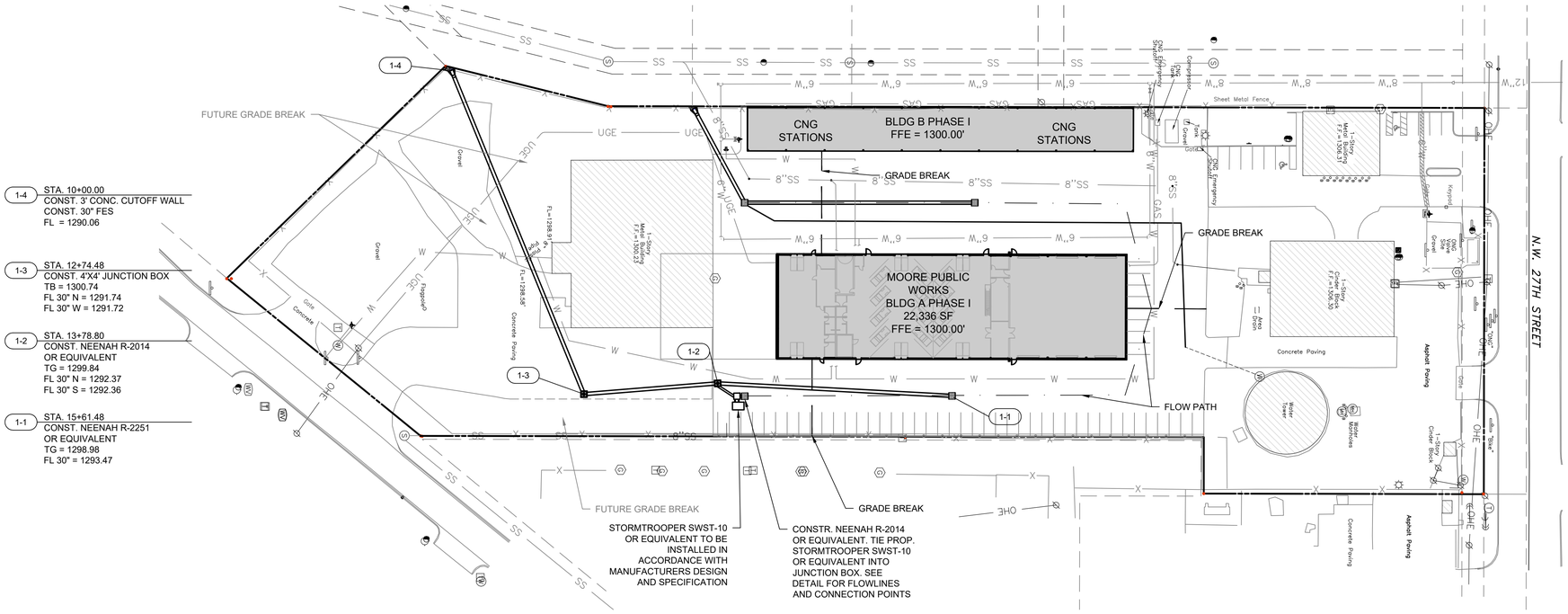
MARK	DATE	DESCRIPTION

DRAWING TITLE:

DA-HISTORIC

SHEET:

C4.02

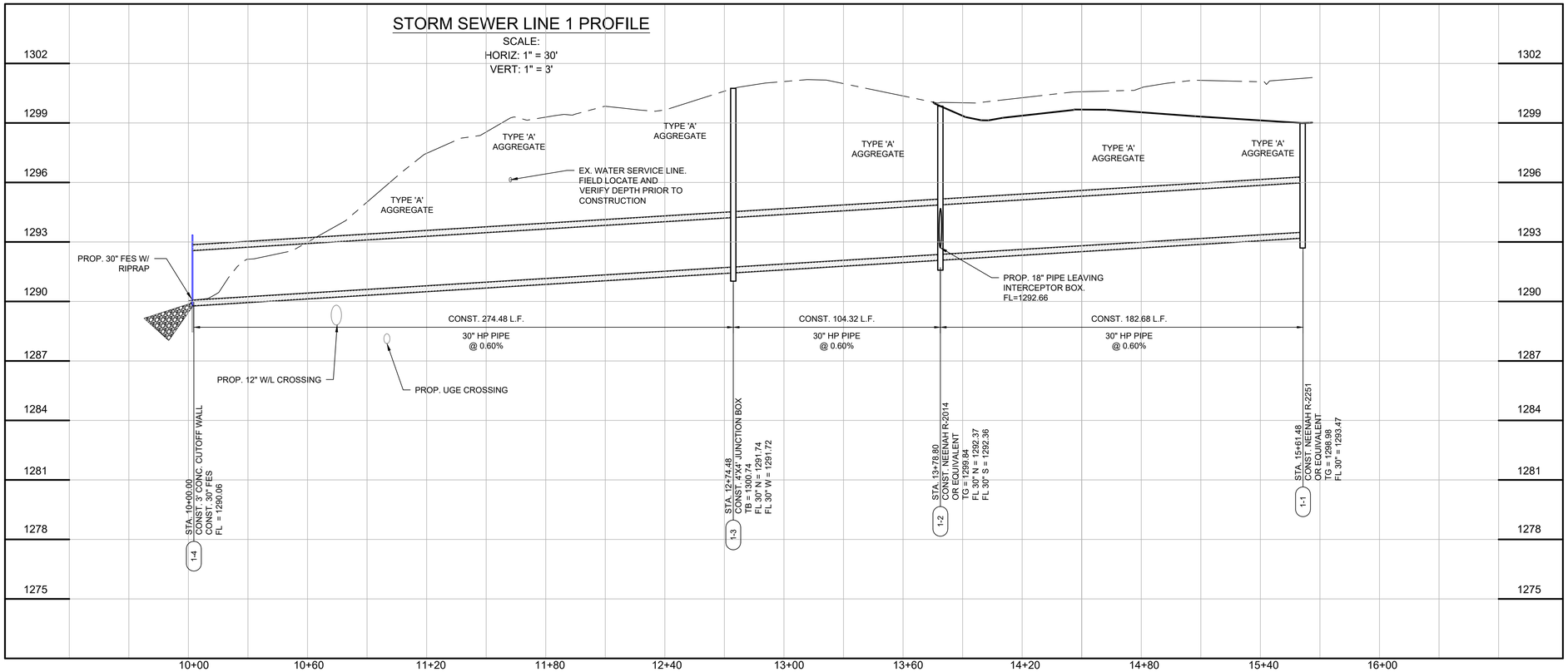


NOTE:
CONTRACTOR SHALL INCLUDE IN BID ALL NECESSARY COORDINATION, LABOR, MATERIALS & FEES NECESSARY TO MAKE TAPS AND/OR CONNECTIONS TO EXISTING UTILITIES

NOTE: WHERE FILL MATERIAL IS INDICATED SUCH MATERIAL SHALL BE PLACED AND COMPACTED IN SIX (6) INCH LIFTS FOR HAND-TAMPED EQUIPMENT AND THIRTY (30) INCH LIFTS FOR POWER-DRIVEN EQUIPMENT TO 95% STANDARD PROCTOR DENSITY PRIOR TO TRENCHING.

STORM SEWER LINE 1 PROFILE

SCALE:
HORIZ: 1" = 30'
VERT: 1" = 3'



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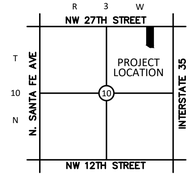
OK CA 5864
EXP. 06/30/20

BEFORE YOU DIG 811 OKIE LOCATE CALL OKIE

LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

MARK	DATE	DESCRIPTION

DRAWING TITLE:

STORM SEWER PLAN & PROFILE

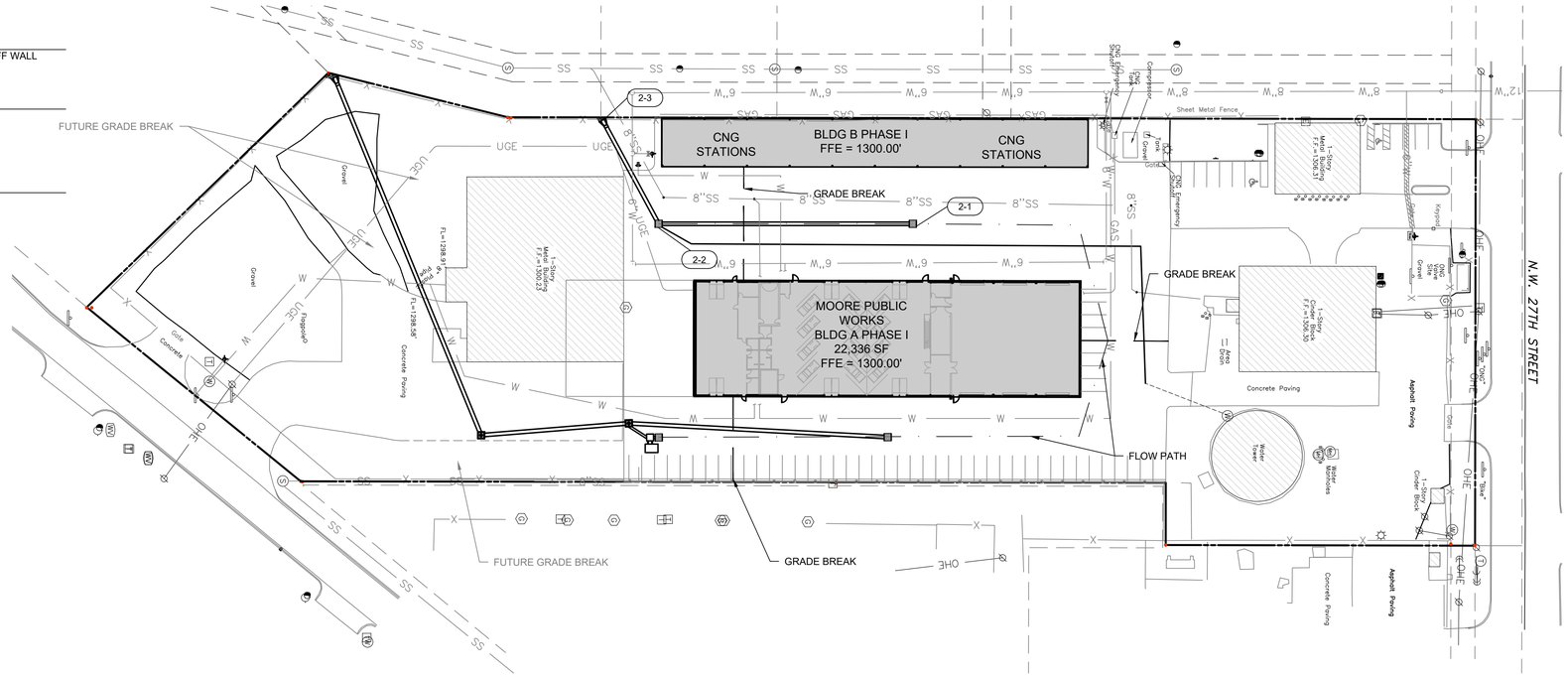
SHEET:

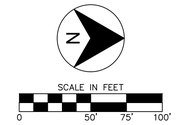
C4.03

2-3 STA. 10+00.00
CONST. 3' CONC. CUTOFF WALL
CONST. 30" FES
FL = 1292.95

2-2 STA. 10+83.90
CONST. NEENAH R-2014
OR EQUIVALENT
TG = 1298.98
FL 30" N = 1293.51
FL 30" S = 1293.49

2-1 STA. 12+62.63
CONST. NEENAH R-2251
OR EQUIVALENT
TG = 1298.98
FL 30" S = 1294.48





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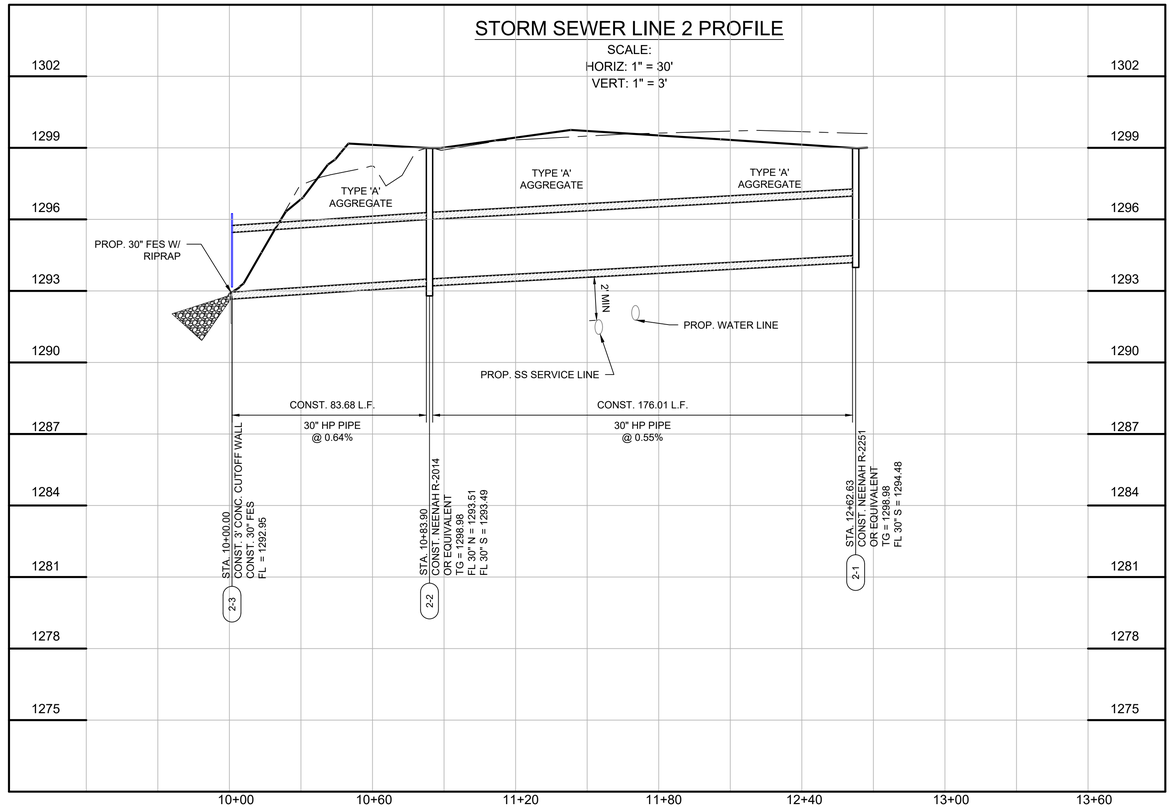
STORM SEWER LINE 2 PROFILE

SCALE:
HORIZ: 1" = 30'
VERT: 1" = 3'



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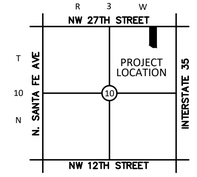
LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

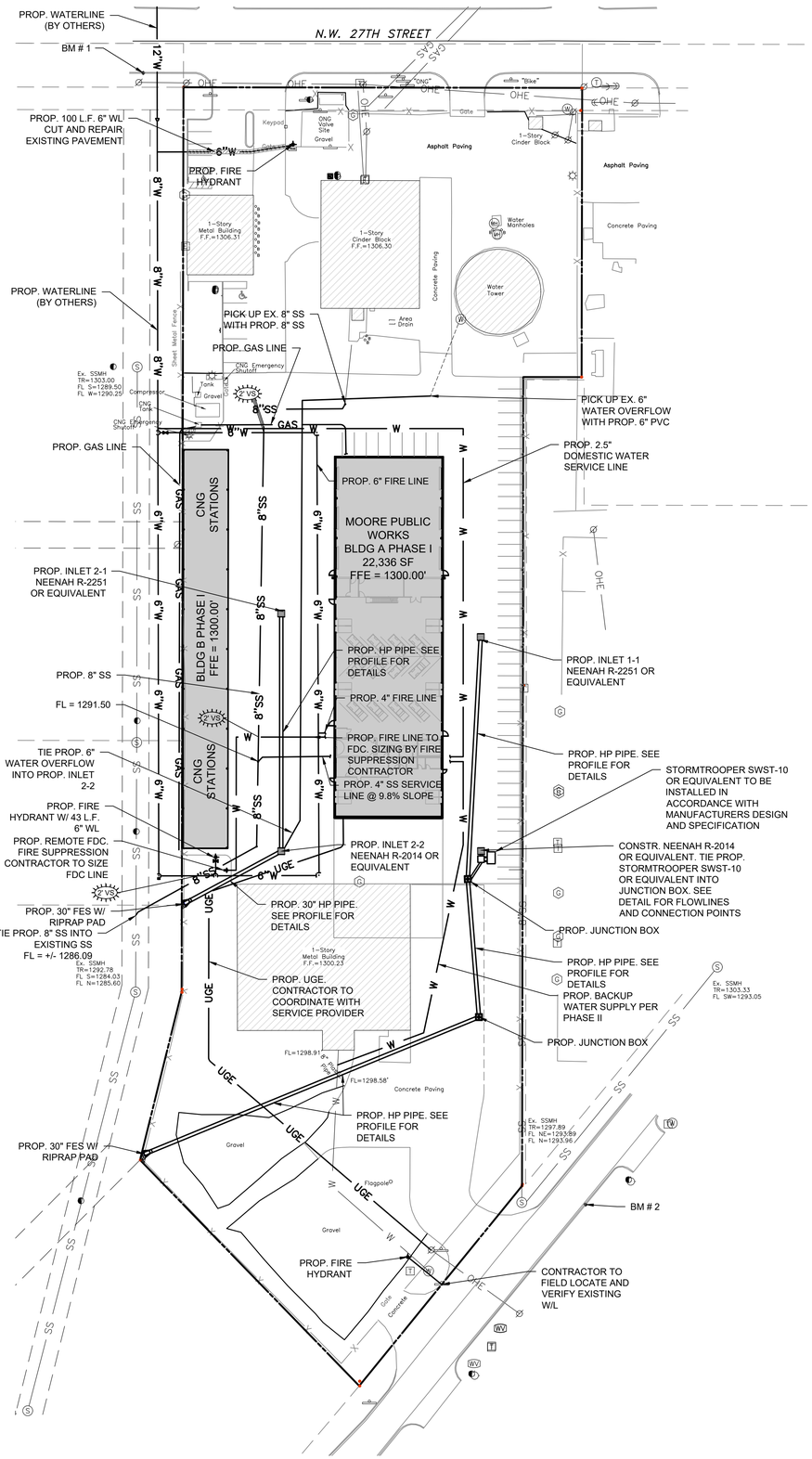
MARK	DATE	DESCRIPTION

DRAWING TITLE:

STORM SEWER PLAN & PROFILE

SHEET:

C4.04



BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

LEGEND

- BOUNDARY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- EXISTING CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED FIRE LANE STRIPING
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- GAS — GAS LINE
- UGT — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- 8"SS — SANITARY SEWER
- 8"W — WATERLINE
- BENCHMARK

- FIRE HYDRANT
- WATER VALVE
- EX. WATER METER PIT
- EX. WATER METER
- PROP. WATER METER
- EX. SPRINKLER VALVE
- EX. AUTO SPRINKLER
- EX. ELECT. PEDESTAL
- EX. ELECT. TRANSFORMER
- EX. ELECT. METER
- PROP. ELECT. METER
- EX. AIR CONDITIONER
- EX. SIGNAGE
- EX. LIGHT POLE
- PROP. LIGHT POLE
- EX. BOLLARD
- EX. POWER POLE
- PROP. POWER POLE
- EX. TELEPHONE PED.
- EX. TELEPHONE MANHOLE
- EX. TRAFFIC SIGNAL LIGHT
- EX. TRAFFIC CONTROL BOX
- EX. FLAG POLE
- EX. YARD LIGHT
- EX. GREASE TRAP
- EX. SS MANHOLE
- PROP. SS MANHOLE
- EX. GAS METER
- PROP. GAS METER
- EX. ELECT. MANHOLE
- EX. STORM MANHOLE
- PROP. INLETS (SEE GRADING PLAN FOR TYPE)
- VERTICAL SEPARATION REQUIREMENT

UTILITY NOTES

A. CONTRACTOR SHALL REFER TO THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE WRITTEN SPECIFICATIONS, CONSTRUCTION DRAWINGS, STORM WATER POLLUTION PLAN, AND GEOTECHNICAL REPORT.

B. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE OWNERS DESIGN GUIDELINES AND SPECIFICATIONS, AND WHERE APPLICABLE SHALL MEET THE REQUIREMENTS OF THE GOVERNING/PERMITTING AUTHORITY HAVING JURISDICTION.

C. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN HORIZONTAL AND VERTICAL CONTROL, REFERENCE POINTS AND CONSTRUCTION STAKING AS INCIDENTAL TO THE PROJECT.

D. THE CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS/PROPERTY LINES/UTILITIES/DRAINAGE PRIOR TO CONSTRUCTION START.

E. ALL WORK NOT CLASSIFIED AS A CONTRACT PAY ITEM SHALL BE CONSIDERED AS INCIDENTAL AND THE COST THEREOF SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS WHICH ARE CLASSIFIED FOR PAYMENT.

F. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL AND MEP PLANS AND SPECIFICATIONS BEING A PART OF THE CONSTRUCTION DOCUMENTS FOR THE EXACT LOCATIONS AND DIMENSIONS OF ENTRY, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE, AND DOWNSPOUT LOCATIONS/SPECIFICATIONS/DETAILS.

G. REFER TO ARCHITECTURE PLANS FOR SITE LIGHTING/LIGHT POLE BASES AND ELECTRICAL CONDUIT PLACEMENT AND SPECIFICATIONS. POLE LOCATIONS ARE SHOWN ON THIS SHEET FOR REFERENCE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND ADJUST ANY CONSTRUCTED CONFLICTS WITH UNDERGROUND UTILITIES, SIDEWALKS, ETC.

H. CONTRACTOR IS REQUIRED TO CALL ONE CALL AS WELL AS THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION/CONSTRUCTION ACTIVITIES TAKE PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS.

I. CONTRACTOR SHALL ENSURE ALL CONSTRUCTED UTILITIES MEET THE MINIMUM SEPARATION AND COVER REQUIREMENTS SET FORTH BY THE PROVIDER, FEDERAL/STATE/LOCAL REGULATIONS, OR SPECIFICATIONS. IN THE EVENT THERE IS A CONFLICT THE MOST STRINGENT SHALL APPLY.

J. GENERAL CONTRACTOR TO PROVIDE 2'X2'X6" THICK CONCRETE APRON AT ALL CLEANOUTS, VALVES AND METERS OUTSIDE OF BUILDING.

K. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE ON FEES REQUIRED, AS WELL AS COST OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDINGS.

L. THRUST BLOCKING SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS.

M. DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.

N. ALL WATER AND SANITARY SEWER LEADS TO BUILDING SHALL END 5' OUTSIDE THE BUILDING LIMITS AS SHOWN ON PLAN AND SHALL BE PROVIDED WITH A TEMPORARY PLUG AT END.

O. ALL FIRE HYDRANTS SHALL BE PROVIDED WITH AN APPROVED GATE VALVE A MAXIMUM OF 5'(UNLESS OTHERWISE SPECIFIED BY CITY OFFICIAL) FROM HYDRANT.

P. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.

Q. REFER TO FIRE PROTECTION SHEETS FOR LOCATION AND DETAIL OF FIRE LINE LEAD IN. FIRE LINE SHALL BE STUBBED UP 1' ABOVE FFE IN SPRINKLER ROOM.

R. REFER TO PLUMBING SHEETS FOR LOCATION AND DETAILS OF SEWER, DOMESTIC, AND IRRIGATION CONNECTIONS.

S. CONTRACTOR SHALL REFER TO IRRIGATION PLANS FOR ACTUAL LOCATION, SIZE, LENGTH AND DEPTH. TEMPORARILY PLUG BOTH ENDS. IRRIGATION CONTRACTOR WILL REMOVE TEMPORARY PLUGS, INSTALL LINES AND PROPERLY SEAL BOTH ENDS.

T. THE FIRE DEPARTMENT CONNECTION (FDC) SHALL BE LOCATED ON THE STREET SIDE OF ANY STRUCTURE. THE FDC SHALL BE LOCATED AND ARRANGED SO THAT THE HOSE LINES CAN BE READILY ATTACHED TO THE INLETS WITHOUT INTERFERENCE FROM OBJECTS.

U. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE EXTENSIONS OF ALL UTILITY SERVICE LINES TO THE MAIN UTILITY LINES.

V. ALL CONDUIT SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED.

W. CONTRACTOR SHALL REFER TO LANDSCAPE AND IRRIGATION PLAN FOR LOCATION AND CONSTRUCTION DETAILS OF LANDSCAPING AND IRRIGATION.

N

SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG OKLAHOMA 811 CALL OKIE

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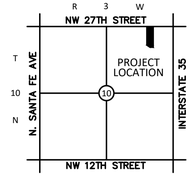
lmills@cedarcreekinc.com
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER:	19076
DRAWING DATE:	04.30.21
ISSUE DATE:	04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

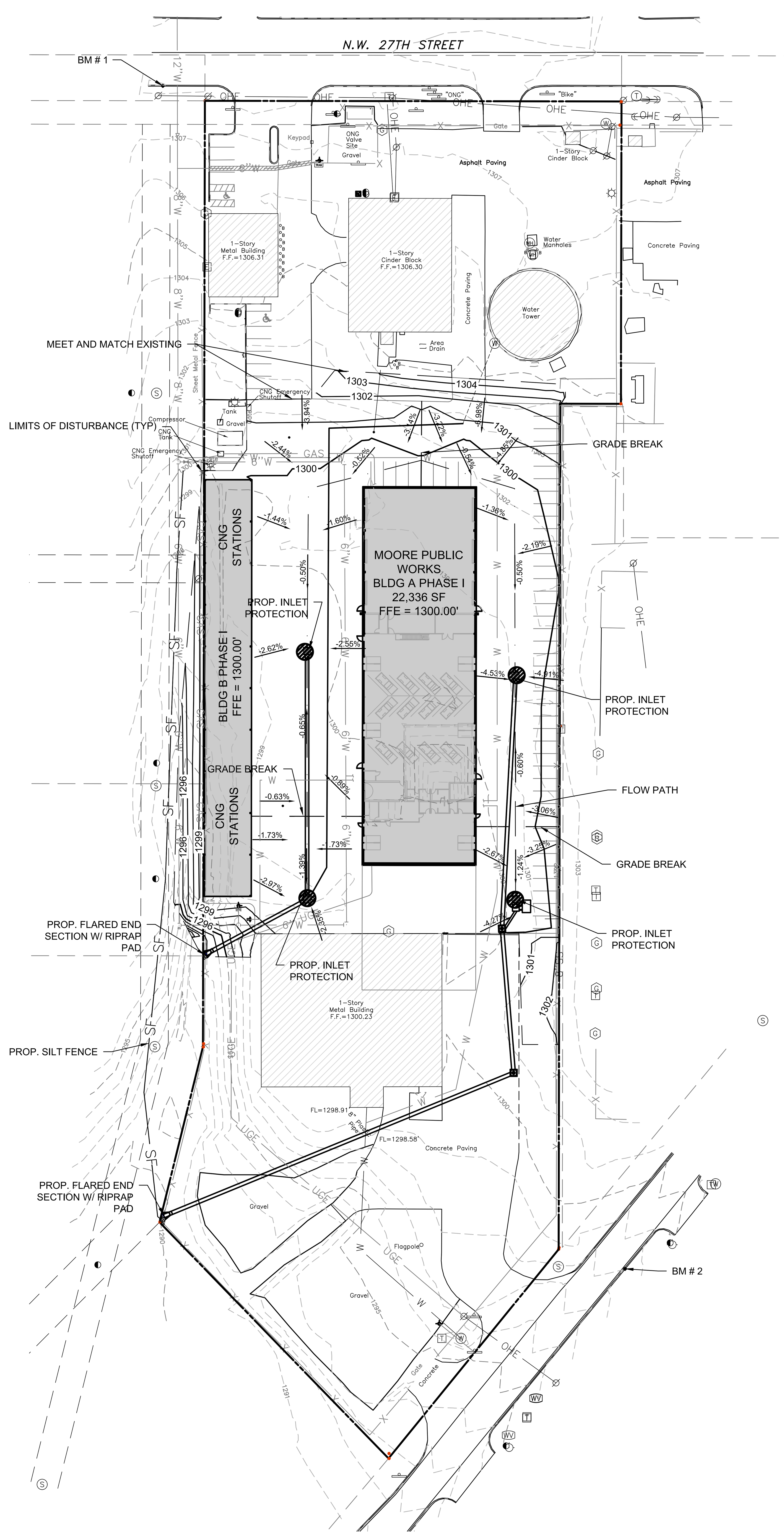
MARK	DATE	DESCRIPTION

DRAWING TITLE:

UTILITY PLAN

SHEET:

C5.00



BENCHMARK – BM 1	
ELEVATION	1306.50
MONUMENT	CUT "X" ON CURB
LOCATION	NORTHING: 739129.52 EASTING: 2117891.70

BENCHMARK – BM 2	
ELEVATION	1298.50
MONUMENT	MAG NAIL IN CURB
LOCATION	NORTHING: 738277.39 EASTING: 2118224.70

SITE DATA

TOTAL AREA OF CONSTRUCTION SITE : 2.47 ACRES
TOTAL AREA TO BE DISTURBED: 2.47 ACRES
CURRENT (EXISTING) IMPERVIOUS AREA: 2.47 ACRES
POST-CONSTRUCTION IMPERVIOUS AREA: 2.47 ACRES
POST CONSTRUCTION RUNOFF COEFFICIENT: C = 0.90

N

SCALE IN FEET
0 50' 75' 100'

BEFORE YOU DIG CALL OKIE 811 1-800-522-OKIE

EROSION CONTROL NOTES

A. SEDIMENT BASINS ARE ATTRACTIVE TO CHILDREN AND CAN BE VERY DANGEROUS. IN ALL CASES, LOCAL ORDINANCES AND REGULATIONS REGARDING HEALTH AND SAFETY MUST BE ADHERED TO.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF OKLAHOMA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

C. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN 30 DAYS AFTER FINAL STABILIZATION. FINAL STABILIZATION HAS OCCURRED WHEN ALL SOIL DISTURBING ACTIVITIES ARE COMPLETED AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF THE COVER FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES HAS BEEN EMPLOYED.

D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

E. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

F. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

G. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

H. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

I. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

J. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

K. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.

L. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.

M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.

N. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

O. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

P. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

Q. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

R. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

S. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.

T. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

U. A 3' STRIP OF SOD SHALL BE PLACED ALONG THE EDGE OF ALL PAVING TO ACT AS A SEDIMENT BUFFER AND AID IN THE ESTABLISHMENT OF VEGETATION.

LEGEND

- BOUNDARY LINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- EXISTING CONCRETE CURB AND GUTTER
- PROPOSED CONCRETE CURB AND GUTTER
- PROPOSED FIRE LANE STRIPING
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- GAS — GAS LINE
- UGT — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC
- 8"SS — SANITARY SEWER
- 8"W — WATERLINE
- BENCHMARK

FIRE HYDRANT	EX. POWER POLE
WATER VALVE	PROP. POWER POLE
WMP EX. WATER METER PIT	TPD EX. TELEPHONE PED.
EX. WATER METER	EX. TELEPHONE MANHOLE
PROP. WATER METER	TSL EX. TRAFFIC SIGNAL LIGHT
SCV EX. SPRINKLER VALVE	TCB EX. TRAFFIC CONTROL BOX
AS EX. AUTO SPRINKLER	FP EX. FLAG POLE
EPD EX. ELECT. PEDESTAL	YL EX. YARD LIGHT
ET EX. ELECT. TRANSFORMER	EX. GREASE TRAP
EM EX. ELECT. METER	EX. SS MANHOLE
PROP. ELECT. METER	PROP. SS MANHOLE
AC EX. AIR CONDITIONER	EX. GAS METER
EX. SIGNAGE	PROP. GAS METER
EX. LIGHT POLE	EX. ELECT. MANHOLE
PROP. LIGHT POLE	EX. STORM MANHOLE
GP EX. BOLLARD	

- PROP. INLETS (SEE GRADING PLAN FOR TYPE)
- LIMITS OF DISTURBANCE
- SF — SILT FENCE
- TD-->> — TEMPORARY DIVERSION DIKE
- SODDING
- INLET PROTECTION
- CW — CONCRETE WASHOUT AREA

SEQUENCE OF CONSTRUCTION

PHASE 1

1. A PRE-CONSTRUCTION MEETING SHALL BE HELD BY THE GENERAL CONTRACTOR'S MANAGER, AND THE OPERATOR'S ENGINEER PRIOR TO LAND DISTURBING ACTIVITIES.
2. PREPARE AND PULL ALL NECESSARY PERMITS.
3. CONSTRUCT TEMPORARY CONSTRUCTION EXITS AT LOCATIONS SHOWN ON THE SWPPP PLANS AND PREPARE TEMPORARY PARKING AND STORAGE AREA. UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA-POTTY, WELL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGE IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
4. CONSTRUCT THE SILT FENCES ON THE SITE. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORMWATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
5. INSTALL PUBLIC WATER, SEWER AND BOX CULVERT
6. DEMO, CLEAR AND GRUB THE SITE.
7. BEGIN GRADING THE SITE.
8. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
9. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.

PHASE 2

1. INSTALL UTILITIES, UNDER DRAINS, STORM SEWERS, CURB AND GUTTERS.
2. INSTALL INLET PROTECTION DEVICES.
3. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
4. FINALIZE PAVEMENT SUBGRADE PREPARATION.
5. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.
6. PAVE LOT.
7. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS. (THESE AREAS TO BE PAVED LAST)
8. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.
9. FINE GRADE AND INSTALL PERMANENT SEEDING AND PLANTINGS.
10. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS DEVISED. (ONLY IF SITE IS STABILIZED)
11. REMOVE INLET PROTECTIONS AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.

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P.O. Box 14534 Oklahoma City, OK 73113
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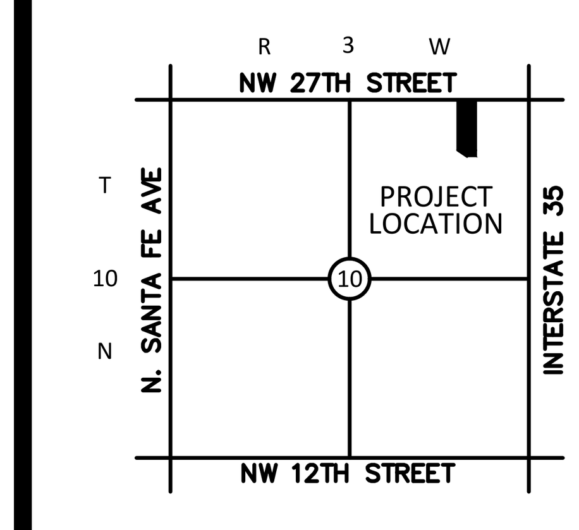
EXP. 06/30/20

LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

LICENSED PROFESSIONAL ENGINEER
JASON ANDREW EMMETT
4.30.21
24022
OKLAHOMA

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

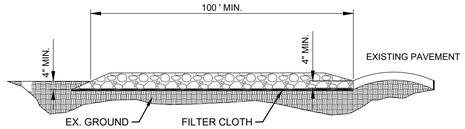
MARK	DATE	DESCRIPTION

DRAWING TITLE:

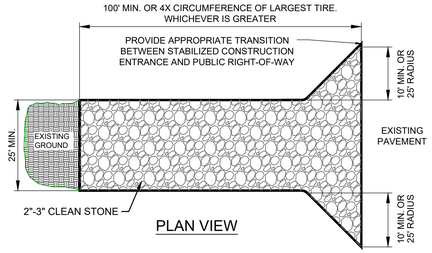
EROSION CONTROL PLAN

SHEET:

C6.00



SIDE ELEVATION



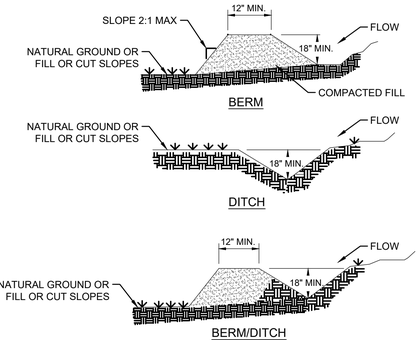
PLAN VIEW

NOTES:

1. STONE - USE COARSE AGGREGATE (2 - 3 INCH STONE)
2. LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 100 FEET.
3. THICKNESS - NOT LESS THAN EIGHT (8) INCHES.
4. WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
5. WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
7. 12' X 24' METAL GRATE MAY BE USED. GRATE SHALL BE 25' AWAY FROM PAVEMENT AND APPROPRIATE SEDIMENT CONTROL TRAPPING DEVICE SHALL BE USED AT GRATE OUTLET POINT.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

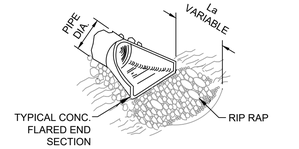


NOTES:

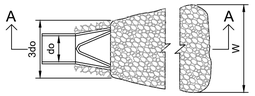
1. POSITIVE GRADE MUST BE PROVIDED TO ASSURE DRAINAGE. IF SLOPE EXCEEDS 2%, SEED AND MULCH DIVERSION, TRY NOT TO EXCEED 5% (HIGH RUNOFF VELOCITIES RESULT). MAXIMUM DRAINAGE AREA IS 5.00 ACRES WITHOUT SUPPORTING CALCULATIONS FOR PERMANENT CHANNEL. DIVERSIONS AT THE TOPS OF SLOPES MUST EMPTY INTO AN APPROVED SLOPE DRAIN (SEE DETAILS). THE BERM/ DITCH IS THE MOST COMMONLY USED DIVERSION.
2. MACHINE COMPACTION OF ALL FILL IS REQUIRED.
3. DIVERSIONS SUFFICIENT TO DIRECT ALL SEDIMENT-LADEN STORMWATER INTO SEDIMENT CONTROL DEVICE MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING OF AREA (OR IN CONJUNCTION WITH THIS OPERATION IF SEDIMENT CONTROLS AND DIVERSIONS ARE INSTALLED AT EACH CRITICAL POINT AS INDICATED).
4. DIVERSIONS SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS.
5. DIVERSIONS SHOULD BE SEEDED AND MULCHED IF THEY ARE TO REMAIN IN PLACE OVER 14 DAYS.
6. CHECK DIVERSIONS AFTER EACH RAIN, OR ONCE PER WEEK WHICH EVER IS THE SHORTER DURATION. REPAIR AS NEEDED TO MAINTAIN FUNCTION.

TEMPORARY DIVERSION BERM/DITCH DETAIL

NOT TO SCALE

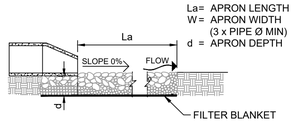


ISOMETRIC VIEW



PLAN

do= PIPE DIA.
La= APRON LENGTH
W = APRON WIDTH (3 x PIPE Ø MIN)
d = APRON DEPTH



SECTION A-A

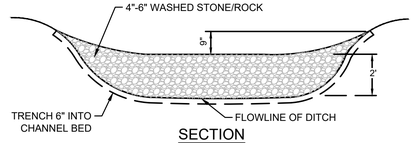
NOTES:

SEE APPROPRIATE PLAN OR SCHEDULE FOR DIMENSIONS

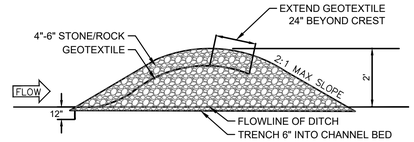
1. La IS THE LENGTH OF THE RIP RAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIP-RAP AND SOIL FOUNDATION.

RIP RAP APRON DETAIL

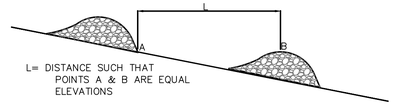
NOT TO SCALE



SECTION



PROFILE



L= DISTANCE SUCH THAT POINTS A & B ARE EQUAL ELEVATIONS

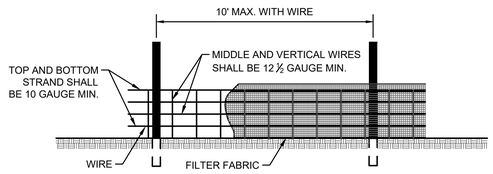
LONGITUDINAL PROFILE

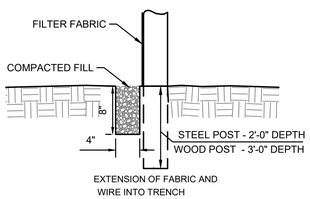
NOTES:

1. THE MAXIMUM HEIGHT OF THE CHECK DAM AT THE CENTER SHALL NOT EXCEED ONE HALF THE DEPTH OF THE CHANNEL.
2. MAXIMUM SPACING SHALL BE SO THE TOE OF THE UPSTREAM DAM IS THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
3. REMOVE SEDIMENT WHEN 25% THE HEIGHT OF THE WEIR.
4. REMOVE CHECK DAMS WHEN SITE STABILIZATION IS ACHIEVED.

ROCK CHECK DAM DETAIL

NOT TO SCALE



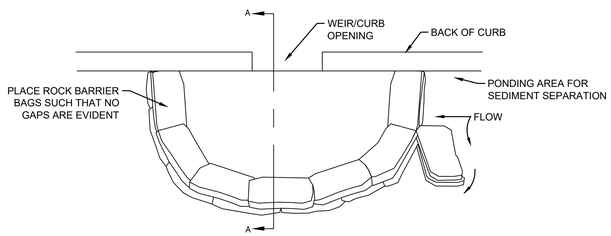


NOTES:

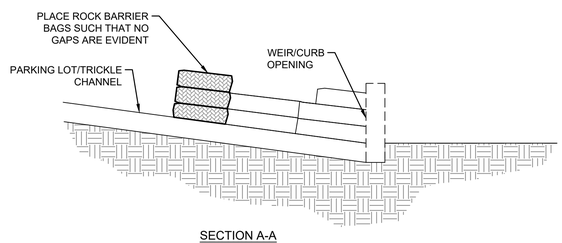
1. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE.
3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WOOD POST SHALL BE 6'-0" IN HEIGHT AND 3" IN DIAMETER.

SILT FENCE DETAIL

NOT TO SCALE



PLAN VIEW



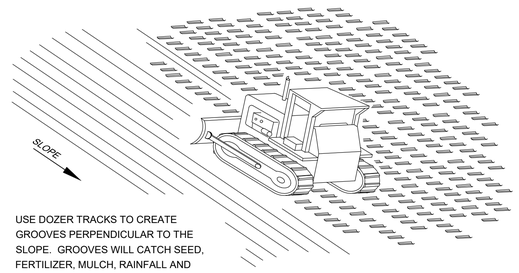
SECTION A-A

NOTES:

1. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING PAVING, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. LEAVE ON ROCKBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

CURB INLET PROTECTION DETAIL

NOT TO SCALE

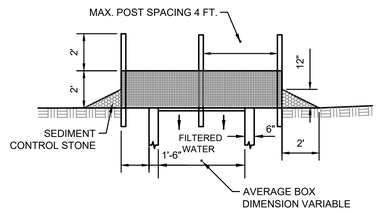


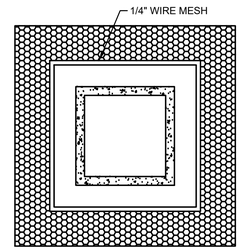
USE DOZER TRACKS TO CREATE GROOVES PERPENDICULAR TO THE SLOPE. GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL AND DECREASE RUNOFF.

TRACKING DETAIL

NOT TO SCALE

SECTION
MULTI-DIRECTIONAL FLOW





PLAN
MULTI-DIRECTIONAL FLOW

NOTES:

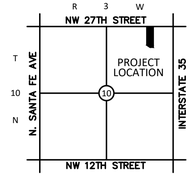
1. SEDIMENT CONTROL STONE SHALL BE 3/4" WASHED STONE.
2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4 INCH MESH OPENINGS.
3. TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
4. STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
5. WOOD POST SHALL BE 6 FT. IN HEIGHT, BE INSTALLED TO 1.5 FT. DEEP MINIMUM, AND BE 3 INCHES IN DIAMETER.
6. POST SPACING SHALL BE A MAXIMUM OF 4 FT.

INLET PROTECTION DETAIL

NOT TO SCALE

CEDAR CREEK
ENGINEERING • PLANNING • CONSULTING
P.O. Box 14534 Oklahoma City, OK 73113
lmills@cedarcreekinc.com
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

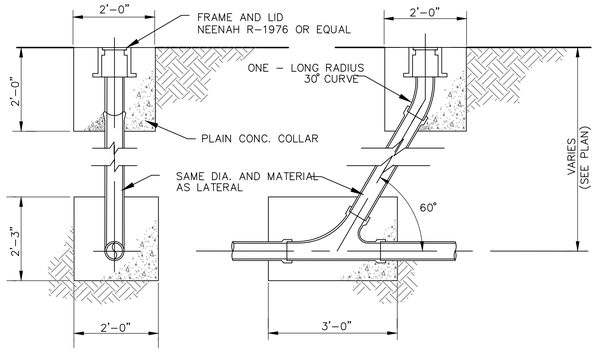
MARK	DATE	DESCRIPTION

DRAWING TITLE:

EROSION CONTROL DETAILS

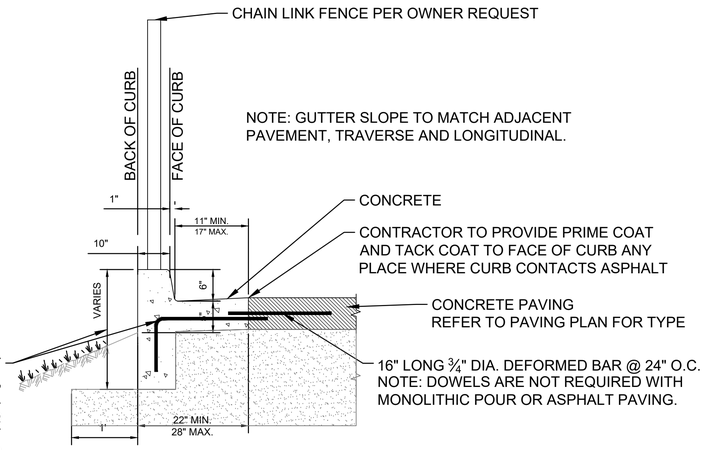
SHEET:

C6.01



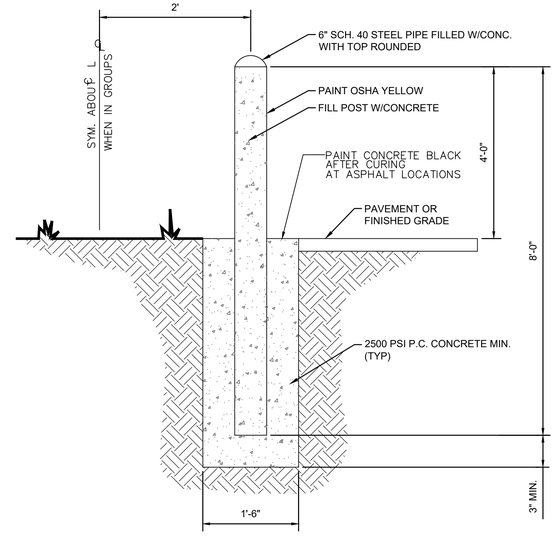
TYPICAL CLEANOUT DETAIL

NOT TO SCALE



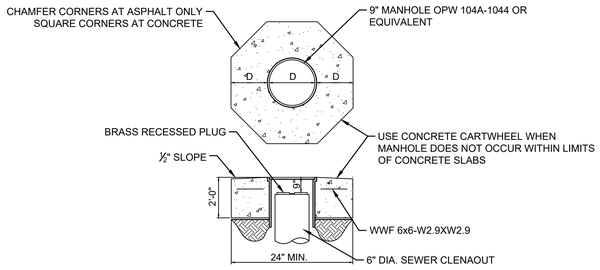
MODIFIED CURB & GUTTER DETAIL

NOT TO SCALE



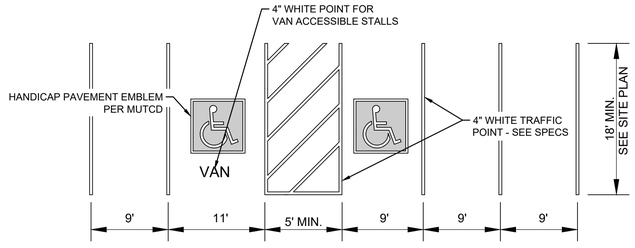
BOLLARD DETAIL

NOT TO SCALE



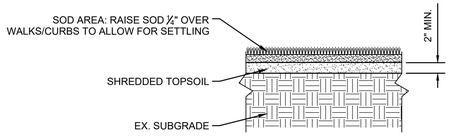
TYPICAL CLEANOUT MANHOLE DETAIL

NOT TO SCALE



STANDARD PARKING LAYOUT DETAIL

NOT TO SCALE



NOTE:
REMOVE WEEDS AND DEBRIS, RAKE ALL SURFACE AREAS SMOOTH PRIOR TO LAYING SOD OR SEEDING. SLOPE TO DRAIN AWAY FROM BUILDINGS. ADHERE TO THE FOLLOWING SUPPLEMENTAL WATERING SCHEDULE (ADJUST AS NEEDED FOR UNSEASONAL RAINFALL CONDITIONS):

APPROXIMATE SUPPLEMENTAL WATER FOR AN AVERAGE TRADITIONAL LAWN (INCHES PER WEEK)						
APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
0.25"	0.75"	1.25"	1.25"	1.0"	0.75"	0.5"

SOD PLANTING DETAIL

NOT TO SCALE

CEDAR CREEK
ENGINEERING • PLANNING • CONSULTING
P.O. Box 14534 Oklahoma City, OK 73113
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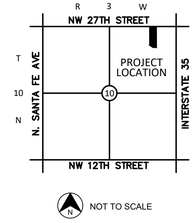
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
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SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

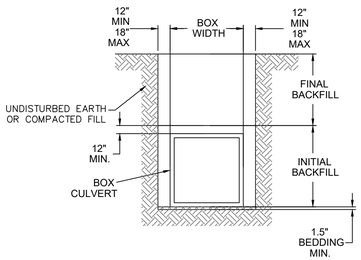
MARK	DATE	DESCRIPTION

DRAWING TITLE:

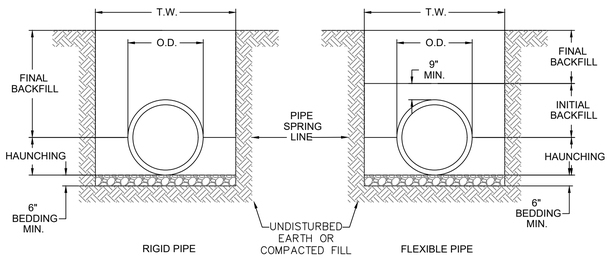
STANDARD DETAILS

SHEET:

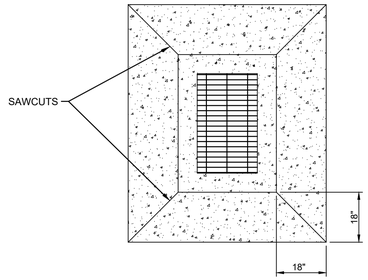
C7.00



CONCRETE BOX CULVERT



1. BEDDING SHALL BE DUMPED CLASS I-A WORKED BY HAND, OR CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. LOCAL CODE PERMITTING WITH GEOTECHNICAL ENGINEER AND OWNER APPROVAL, NATIVE SOIL MAY BE USED FOR BEDDING PROVIDED IT MEETS THE EMBEDMENT AND BACKFILL MATERIALS IN TABLE 1 EXCLUDING CLASS IV-A.
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A, OR CLASS I-B OR CLASS II COMPACTED TO 95% STANDARD PROCTOR. PEA GRAVEL SHALL NOT BE USED AS A HAUNCHING MATERIAL. CLASS III MATERIAL SHALL BE ALLOWED FOR RIGID PIPE COMPACTED AT 95% STANDARD PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 90% STANDARD PROCTOR, OR CLASS III COMPACTED 95% STANDARD PROCTOR. CLASS I & II MATERIAL SHALL BE USED FOR FLEXIBLE PIPE WHEN FILL HEIGHTS EXCEED 8'.
4. FINAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 90% STANDARD PROCTOR, OR CLASS III COMPACTED TO 95% STANDARD PROCTOR.
5. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
6. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321. (SEE TABLE 1)
7. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
8. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
9. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.
10. DESIGN ENGINEER SHALL DESIGNATE ON THE PLANS WHERE WATERTIGHT JOINTS ARE TO BE REQUIRED.
11. REPLACE WET OR UNSUITABLE SOIL AS NECESSARY TO PROVIDE A SUITABLE BASE, AS DIRECTED BY GEOTECHNICAL ENGINEER OR OWNER.
12. WHERE GROUND WATER IS PRESENT CLASS I-A MATERIAL SHALL BE WRAPPED WITH A NON-WOVEN GEO-TEXTILE, EXCLUDING BEDDING MATERIAL BETWEEN 4" & 6" THICK.
13. CONTRACTOR SHALL REFER TO GEOTECHNICAL REPORT FOR SOIL TYPE AND CLASSIFICATIONS FOR THIS PROJECT.
14. CONTRACTOR SHALL REFER TO THE LATEST VERSION OF ASTM STANDARDS PRIOR TO CONSTRUCTION.



INLET APRON DETAIL

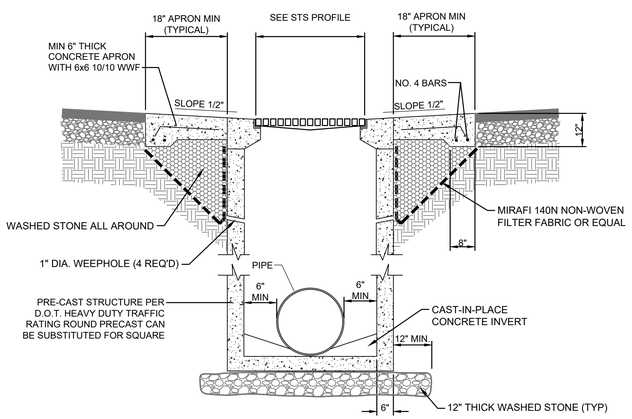
NOT TO SCALE

TABLE 1: CLASSES OF EMBEDMENT AND BACKFILL MATERIALS

ASTM D 2321 MATERIAL CLASS	ASTM D 2487 USCS SOIL GROUP	MATERIAL TYPE	% PASSING			ATTERBERG LIMITS	
			1 1/2 IN.	NO. 4	NO. 200	LL	PI
IA	NONE	MANUFACTURED OPEN GRADED AGGREGATES	100%	≤10%	<5%	NON PLASTIC	
IB	NONE	MANUFACTURED DENSE GRADED AGGREGATES	100%	≤50%	<5%	NON PLASTIC	
II	GW	COARSE-GRAINED SOILS, CLEAN	100%	<50% OF "COARSE FRACTION"	<5%	NON PLASTIC	
	GP						
	SW			>50% OF "COARSE FRACTION"			
	SP						
III	GM	COARSE-GRAINED SOILS W/ FINES	100%	<50% OF "COARSE FRACTION"	12% TO 50%		<4 OR <"A" LINE
	GC						<7 OR >"A" LINE
	SM			>50% OF "COARSE FRACTION"			>4 OR <"A" LINE
	SC						>7 OR >"A" LINE
IV-A	ML	FINE-GRAINED SOILS	100%	100%	>50%	<50	<4 OR <"A" LINE
	CL						>7 OR >"A" LINE

TRENCH AND BEDDING DETAILS

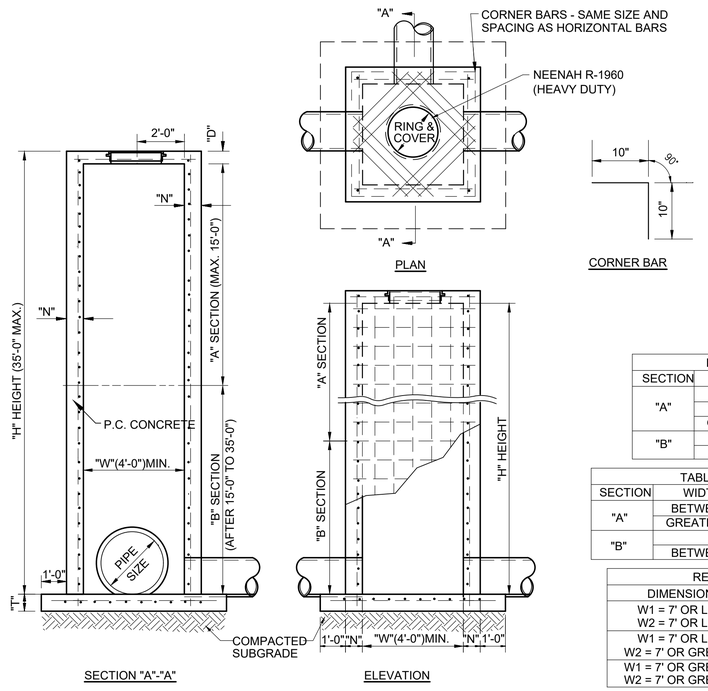
NOT TO SCALE



DROP INLET DETAIL

NOT TO SCALE

NOTES:
1. ALL EXPOSED CORNERS TO HAVE ¾" CHAMFER
2. ALL #4 & #5 REINFORCING BARS TO HAVE 1 ½" COVER, LARGER SIZED TO HAVE 2" COVER.
3. SEE GRADING AND DRAINAGE PLAN FOR PIPE SIZES, LOCATIONS AND FLOW LINES.
4. PIPES SHALL CONNECT TO THE ENDS OR SIDE OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF THE BOX.
5. ALL REINFORCING BARS TO BE GRADE 60.



JUNCTION BOX DETAIL

NOT TO SCALE

REINFORCEMENT SCHEDULE, BASE	
SECTION	
"A"	#4 @ 6" E.W.
"B"	#6 @ 6" E.W.

TABLE OF 'W' DIMENSIONS			
PIPE SIZE	SKEW OF CROSS DRAIN		
SINGLE	STRAIGHT	30°	45°
24"	4'-0"	4'-0"	4'-10"
30"	4'-0"	4'-7"	5'-8"
36"	4'-0"	5'-3"	6'-5"
42"	5'-3"	5'-11"	7'-3"
48"	5'-10"	6'-7"	8'-0"
60"	7'-0"	7'-10"	9'-8"
DOUBLE	FOR "A" SECTION ONLY		
24"	7'-0"	7'-10"	9'-5"
30"	8'-2"	9'-2"	11'-0"
36"	9'-4"	10'-6"	12'-6"
42"	10'-6"	11'-10"	14'-2"
48"	11'-8"	13'-2"	15'-10"

REINFORCEMENT SCHEDULE, WALLS			
SECTION	WIDTH ("W")	HOR.	VERT.
"A"	4'	#4 @ 9"	#4 @ 10"
	BETWEEN 4' & 7'	#6 @ 9"	#4 @ 10"
	GREATER THAN 7'	#5 @ 4 1/2"	#4 @ 10"
"B"	4'	#4 @ 6"	#4 @ 10"
	BETWEEN 4' & 7'	#6 @ 6"	#4 @ 10"

TABLE OF "T" & "N" DIMENSIONS				
SECTION	WIDTH ("W")	"T"	"N"	"D"
"A"	BETWEEN 4' & 7'	6" + PIPE THICKNESS	8"	6"
	GREATER THAN 7'	6" + PIPE THICKNESS	8"	8"
"B"	4'	6" + PIPE THICKNESS	8"	8"
	BETWEEN 4' & 7'	6" + PIPE THICKNESS	10"	8"

REINFORCEMENT SCHEDULE, TOP		
DIMENSIONS	STEEL	SPECIAL PATTERN
W1 = 7' OR LESS W2 = 7' OR LESS	#4 @ 8" E.W. #4 @ 8" E.W.	DIAGONAL @ COVER DIAGONAL @ COVER
W1 = 7' OR LESS W2 = 7' OR GREATER	#4 @ 8" E.W. #4 @ 6" E.W.	DIAGONAL @ COVER DIAGONAL @ COVER
W1 = 7' OR GREATER W2 = 7' OR GREATER	#4 @ 6" E.W. #4 @ 6" E.W.	DIAGONAL @ COVER DIAGONAL @ COVER

CEDAR CREEK
ENGINEERING • PLANNING • CONSULTING
P.O. Box 14534 Oklahoma City, OK 73113
lmills@cedarcreekinc.com
Phone 405.406.2372
OK CA 5864
EXP. 06/30/20

LOCATION MAP:

NOT TO SCALE

PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

MARK	DATE	DESCRIPTION

DRAWING TITLE:

STANDARD DETAILS

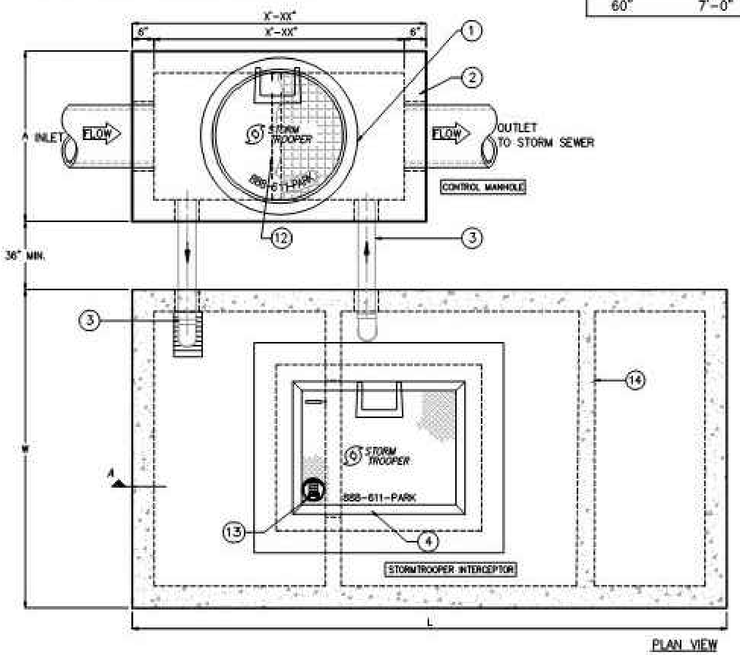
SHEET:

C7.01

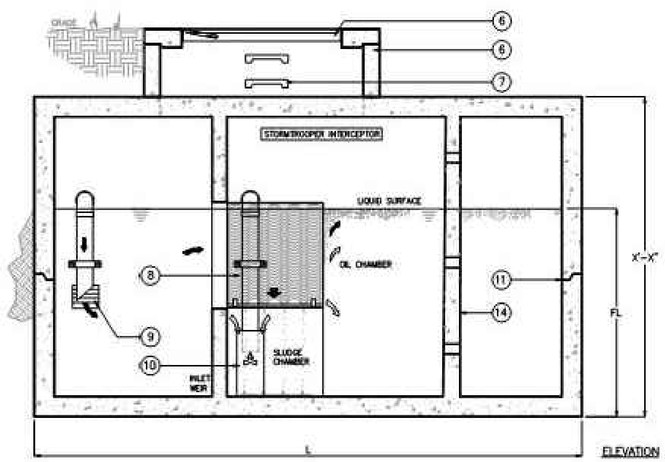
Storm Trooper

Stormwater Treatment System

MAX PIPE SIZE (IN)	CONTROL BASIN WIDTH A
30"	4'-0"
36"	5'-0"
48"	6'-0"
60"	7'-0"



PLAN VIEW



ELEVATION

GENERAL INFORMATION

PARK STORMTROOPER® INTERCEPTOR

THE STORMTROOPER STORMWATER INTERCEPTOR IS DESIGNED TO RECEIVE & TREAT STORMWATER RUNOFF ON A GRAVITY-FLOW AND ONCE-THROUGH BASIS.

GUARANTEED PERFORMANCE

PRE-ENGINEERED COALESCING MEDIA PACKS ARE UTILIZED FOR ENHANCED SEPARATION WHICH PROVIDE SUPERIOR PERFORMANCE COMPARED TO OTHER SEPARATORS WHICH UTILIZE BAFFLES OR DIVERTERS.

APPLICATIONS

THE PARKUSA STORMTROOPER® INTERCEPTOR IS DESIGNED FOR STORMWATER RUNOFF FROM COMMERCIAL & INDUSTRIAL APPLICATIONS WHERE EXCESSIVE POLLUTANTS MAY HARM THE ENVIRONMENT OR DAMAGE SEWER SYSTEMS.

BY-PASS DESIGN

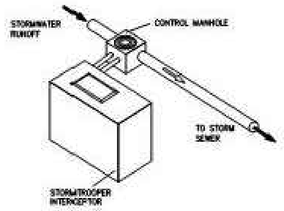
THE UNIQUE DESIGN OF THE CONTROL BASIN ALLOWS FOR RESULTS AN OWNER CAN CLEARLY SEE. DURING A STORM EVENT, UNTREATED STORMWATER ENTERS THE INLET COMPARTMENT AND IS DIVERTED TO THE INTERCEPTOR FOR TREATMENT. CLEAN STORMWATER CAN BE WITNESSED IN THE EFFLUENT COMPARTMENT AFTER TREATMENT.

MAINTENANCE

STORMTROOPER HAS BECOME KNOWN IN THE INDUSTRY AS THE "EASIEST TO MAINTAIN." HATCHWAY DESIGN MAKES INSPECTION AND VAULT ENTRY ACCESSIBLE FOR MAINTENANCE. ALL COMPARTMENTS ALLOW FOR THE LARGER HOSE ASSOCIATED WITH VACTOR TRUCK PUMP OUT. MAINTENANCE INSTRUCTIONS AND LOGS ARE AVAILABLE FROM PARK ENGINEERING.

CALL US

CONTACT PARK ENGINEERING FOR HELP SIZING, SNOUMPS AND PERFORMANCE INFORMATION.



NAMEPLATE

APPLICATIONS

- *INDUSTRIAL*
- *COMMERCIAL*
- *RESIDENTIAL*
- *INSTITUTIONAL*
- *REDEVELOPMENT*
- *NPDES – MUNICIPAL/INDUSTRIAL*
- *BMP STRUCTURAL SOLUTION*

KEYED NOTES		
MARK	QTY	DESCRIPTION
1	1	30" DIA DUCTILE IRON RING W/ COVER, H20 TRAFFIC DUTY
2	1	CONTROL MANHOLE FOR BY-PASS DIVERSION DURING HIGH FLOW
3	1	MANIFOLD PIPING
4	1	STEEL ACCESS HATCHWAY
5	1	INTERCEPTOR OPENING AND HATCHWAY
6	1	CONCRETE EXTENSION RINGS AS REQ'D
7	1	OSHA MANHOLE STEPS AS REQ'D
8	1	COALESCING MEDIA PACK
9	1	DIFFUSION BAFFLE
10	1	SLUDGE BAFFLE
11	—	ALL JOINTS TO BE SEALED W/ PLASTIC FLEXIBLE GASKET
12	1	CONTROL MANHOLE DEBRIS SCREEN
13	1	NAMEPLATE INDICATING: MFG: PARKUSA B88-611-PARK WWW.PARKUSA.COM MODEL: STORMTROOPER SWST-XX DATE MANUFACTURED SERIAL # XXXXXX
14	1	STRUCTURAL SUPPORT WALL FOR SIZES GREATER THAN SWST-60

STORMTROOPER, U.S. PATENT 7,470,361

STORMWATER INTERCEPTOR SCHEDULE

MODEL NO.	TOTAL CAPACITY	TREATMENT PERFORMANCE				DIMENSIONS			
		FLOWRATE		SOLIDS	OIL	LENGTH	WIDTH	FLOWLINE	HEIGHT
STD DUTY	USGal	GPM	CFS	FT³	USGal	L	W	FL	H
SWST-05	500	300	0.67	25	165	7'-10"	4'-4"	3'-3"	5'-3"
SWST-06	600	400	0.89	36	198	7'-10"	4'-4"	3'-10"	5'-10"
SWST-08	800	500	1.11	50	264	7'-10"	4'-4"	4'-0"	6'-0"
SWST-10	1,000	650	1.45	60	460	9'-0"	6'-0"	4'-6"	6'-0"
SWST-15	1,500	875	1.95	115	570	9'-0"	6'-0"	5'-6"	7'-0"
SWST-20	2,000	1,125	2.51	130	1,080	9'-0"	6'-0"	6'-6"	8'-0"
SWST-25	2,500	1,375	3.06	145	1,080	13'-0"	7'-0"	5'-6"	7'-0"
SWST-30	3,000	1,600	3.56	215	1,080	13'-0"	7'-0"	6'-6"	8'-0"
SWST-35	3,500	1,775	3.95	290	1,080	13'-0"	7'-0"	6'-10"	8'-4"
SWST-40	4,000	1,950	4.34	225	1,680	16'-0"	8'-6"	5'-6"	7'-10"
SWST-45	4,500	2,150	4.79	330	1,680	16'-0"	8'-6"	6'-0"	8'-0"
SWST-50	5,000	2,350	5.23	340	1,680	16'-0"	8'-6"	6'-6"	8'-0"
SWST-60	6,000	2,675	5.96	450	1,680	16'-0"	8'-6"	7'-6"	9'-0"
*SWST-70	7,000	3,000	6.68	500	2,375	16'-0"	9'-0"	7'-8"	9'-2"
*SWST-80	8,000	3,325	7.41	635	2,375	18'-0"	9'-0"	8'-6"	10'-0"
*SWST-90	9,000	3,625	8.07	770	2,375	18'-0"	9'-0"	9'-4"	10'-10"
*SWST-100	10,000	3,900	8.69	830	2,375	24'-2"	11'-2"	7'-2"	9'-6"
*SWST-110	11,000	4,175	9.30	910	3,490	21'-2"	11'-2"	8'-0"	9'-6"
*SWST-120	12,000	4,425	9.86	970	3,490	21'-2"	11'-2"	8'-6"	10'-0"
*SWST-130	13,000	4,725	10.52	1,070	3,740	21'-2"	11'-2"	9'-0"	10'-6"
*SWST-140	14,000	4,950	11.02	1,200	3,740	21'-2"	11'-2"	9'-8"	11'-2"
*SWST-150	15,000	5,200	11.58	1,335	3,740	21'-2"	11'-2"	10'-8"	12'-2"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

*INCLUDES ADDITIONAL STRUCTURAL SUPPORT WALL

SWST-1

SPECIFICATIONS

CONCRETE : CLASS I/II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH.

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.

D.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF DUCTILE IRON CONFORMING TO ASTM A536, AASHTO M306, & AASHTO M105 STANDARDS. MANHOLE SHALL BE NOMINAL 24" DIAMETER AND BE TRAFFIC DUTY.

STEEL COVER: GALVANIZED STEEL SKID-RESISTANT SINGLE LEAF H-20 LOADED.

ENGINEERING DATA

INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO REGULATORY STANDARDS. NOMINAL TOTAL LIQUID CAPACITY AND OIL HOLDING CAPACITY AS INDICATED.

STORMWATER INTERCEPTORS ARE UTILIZED TO REDUCE NON-POINT SOURCE POLLUTION ASSOCIATED WITH OIL AND SEDIMENT. THE INTERCEPTOR IS DESIGNED TO ALLOW FOR THE DETAINMENT OF SETTLABLE & FLOATABLE SOLIDS & LIQUIDS. THE INTERCEPTOR SHOULD BE INSPECTED ON A REGULAR BASIS TO DETERMINE PROPER OPERATION AND CLEANING.

PROJECT: .
CUSTOMER: .
ENGINEER: .
ORDER #: . PROJ #: .
DATE: . LOCATION: .

PARK USA

www.parkusa.com 888-611-PARK

STORMWATER INTERCEPTOR
STORMTROOPER MODEL SWST 05 THRU 150

PM	PC	DRN	ENG	DWG. NO.	REV.
.	.	.	.	SWST-1	.
DATE 05/2019					

CEDAR CREEK
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lmills@cedarcreekinc.com
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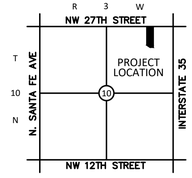
OK CA 5864
EXP. 06/30/20

LOCATION MAP:



PROJECT:

MOORE PUBLIC WORKS

MOORE, OK

PROJECT NUMBER: 19076
DRAWING DATE: 04.30.21
ISSUE DATE: 04.30.21

SEAL:

SUBMITTAL:

CONSTRUCTION DRAWINGS

REVISIONS:

MARK	DATE	DESCRIPTION

DRAWING TITLE:

STANDARD DETAILS

SHEET:

C7.02

FOUNDATION AND SLAB–ON–GRADE NOTES

1. DESIGN FOUNDATION BEARING PRESSURE (NET): 10,000 P.S.F.
2. REINFORCEMENT SHALL BE PLACED 1 1/2" FROM TOP OF SLAB, UNLESS NOTED OTHERWISE.
3. FLOOR SLAB JOINTS (SAWED OR FORMED) SHALL BE PLACED AS SHOWN ON THE FOUNDATION PLAN. LOCATION OF JOINTS NOT SHOWN ON PLANS MUST BE APPROVED BY ARCHITECT AND SHALL BE AT APPROX. 20' CENTERS EACH WAY.
4. FOR CONSTRUCTION JOINT AND WEAKENED PLANE JOINT DETAILS, SEE "TYPICAL SLAB JOINT DETAIL ".
5. WALLS RETAINING SOIL MUST BE BRACED UNTIL RESTRAINING FLOORS ARE IN PLACE.
6. ALL EXISTING VEGETATION, TOPSOIL, AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM BENEATH THE AREA OF NEW FLOOR SLABS. THE SUBGRADE SHALL THEN BE SCARIFIED TO A MINIMUM DEPTH OF 9 INCHES AND THE MOISTURE CONTENT ADJUSTED TO OPTIMUM OR SLIGHTLY ABOVE OPTIMUM AND COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR DENSITY, IN ACCORDANCE WITH SPECIFICATION D–698, STANDARD PROCTOR PROCEDURE.
7. ALL FILL MATERIAL SHALL BE A LOW VOLUME CHANGE MATERIAL HAVING A PI BETWEEN 5 AND 15. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 9". EACH LIFT SHALL HAVE THE MOISTURE CONTENT WITHIN 3% OF OPTIMUM AND COMPACTED TO A MINIMUM OF 95% STANDARD DENSITY.
8. SUBGRADE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY METCO.

CONCRETE NOTES

1. ALL CONCRETE WORK SHALL CONFORM TO THE A.C.I. STANDARD 318–(LATEST EDITION) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
2. UNLESS OTHERWISE NOTED, ALL CONCRETE MIXES SHALL BE OF EITHER LABORATORY TRIAL BATCH OR FIELD EXPERIENCE METHOD TO CONFORM TO A.C.I. 318. IF A SUITABLE RECORD OF STRENGTH TEST PERFORMANCE IS NOT AVAILABLE, PROPORTIONS SHALL BE SELECTED TO PRODUCE AN AVERAGE STRENGTH OF 1200 p.s.i. GREATER THAN THE REQUIRED 28–DAY STRENGTH. SUBMITTAL OF STRENGTH TEST RECORDS IS REQUIRED.
3. ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 p.s.i.
4. MAXIMUM SLUMPS TO BE AS FOLLOWS (UNLESS NOTED OTHERWISE): PIERS 6", ALL OTHERS 4". (WATER REDUCING ADMIXTURES OR SUPER–PLASTICIZERS MAY BE USED TO INCREASE SLUMPS).
5. PROVIDE 5% TO 7% ENTRAINED AIR FOR CONCRETE EXPOSED TO FREEZING AND THAWING CONDITIONS.
6. ALL ANCHOR BOLTS SHALL CONFORM TO ASTM A307, UNLESS NOTED OTHERWISE.
7. GROUT UNDER BASE PLATES & BEARING PLATES SHALL BE PREPACKAGED, NON–METALLIC, NON–GASEOUS. IT SHALL BE NON–SHRINK WHEN TESTED ACCORDING TO CRDC–621 AT FLUID CONSISTENCY (FLOW CONE) OF 25 +/– 5 SECONDS. GROUT SHALL ATTAIN 5,000 PSI COMPRESSIVE STRENGTH IN 28 DAYS AT ABOVE FLOW AND SHALL NOT BLEED. CERTIFIED INDEPENDENT TEST DATA REQUIRED. GROUT SHALL BE MOIST CURED FOR 24 HOURS AFTER PLACEMENT.

REINFORCING NOTES

1. ALL REINFORCING SHALL CONFORM TO ASTM A–615 SPECIFICATIONS, GRADE 60. (REINFORCING AT BUILDING C SHALL BE EPOXY COATED, WHERE NOTED.)
3. DETAILS AND FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF A.C.I. 315 DETAILING MANUAL.
4. PROVIDE CORNER BARS AT EACH FACE OF ALL GRADE BEAMS AND WALLS. BARS TO BE SAME SIZE AND NUMBER AS HORIZONTAL REINFORCING.
5. LAP BARS 32 DIAMETERS AT SPLICES WITH 12" MINIMUM (UNLESS NOTED OTHERWISE).
6. PROVIDE 2 # 5 EACH SIDE OF OPENINGS THRU WALLS OR STRUCTURAL SLABS. BARS TO EXTEND 2'–0" BEYOND OPENING.
7. REINFORCING IN SLABS ON GRADE SHALL BE SUPPORTED AT 3'–0" O.C. EACH WAY ON PRECAST BRIQUETTES OF SAME COMPRESSIVE STRENGTH AS FLOOR (PRECAST CONCRETE BRICKS ARE ACCEPTABLE).
8. REINFORCING SHALL BE SUPPORTED AND SECURED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.
9. WALLS WITH MORE THAN 1 LAYER OF REINFORCING SHALL HAVE # 3 ZEE BAR SPACERS @ MAXIMUM SPACING OF 2'–0" O.C. EACH WAY.
10. REINFORCING MAY BE SPLICED ONLY AS SHOWN ON THE DRAWINGS, EXCEPT BARS LABELED CONTINUOUS MAY BE EXTENDED THRU SEVERAL SPANS AT CONTRACTOR'S OPTION.
11. CONTINUOUS TOP AND BOTTOM BARS SHALL BE SPLICED AT MID–SPAN AND AT SUPPORTS, RESPECTIVELY.

STEEL FORMDECK NOTES

1. METAL FORMDECK DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE STEEL DECK INSTITUTE REQUIREMENTS.
2. INSTALL DECK WITH SIDE LAPS UP.
3. MINIMUM END LAPS SHALL BE 2" AND SHALL OCCUR AT THE SUPPORTS.
4. ATTACH DECK TO SUPPORTING MEMBERS BY WELDING THRU 18 GAUGE WELDING WASHERS.
5. AT EACH SUPPORT, PLACE ONE WELD AT EACH LAP FLUTE AND AT 12" O.C. MAX. BETWEEN.

CONSTRUCTION NOTES

1. CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION FOR COORDINATION AND ITEMS REQUIRING VERIFICATION. SUBMISSION SHALL INCLUDE A STAMP ON THE SHOP DRAWINGS WITH THE CONTRACTOR'S COMPANY NAME, NAME OF REVIEWER, AND DATE OF REVIEW BY THE CONTRACTOR.
2. CONTRACTOR SHALL SUBMIT PEMB SHOP DRAWINGS PRIOR TO REVIEW OF THE DRILLED PIER SUBMITTAL FOR SIZE AND EMBEDMENT BASED ON FINAL PEMB REACTIONS.
3. SPECIAL INSPECTIONS SHALL BE MADE DURING CONSTRUCTION AS REQUIRED BY THE LOCAL BUILDING CODE. THE OWNER OR THE OWNERS AGENT SHALL EMPLOY QUALIFIED INSPECTORS.

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION SHALL CONFORM TO CURRENT A.I.S.C. SPECIFICATIONS AND TO SHOP DRAWINGS WHICH SHALL SHOW ALL SHOP AND FIELD BOLTS AND WELDS, INCLUDING TYPE, SIZE, AND LOCATION.
2. ALL PIPE COLUMNS SHALL BE ASTM A501, Fy=36 ksi OR ASTM A53 TYPE E OR S, GRADE B, Fy=35 ksi. ALL TUBE COLUMNS (HSS) SHALL BE ASTM A500, GRADE C, Fy=46 ksi. ALL WIDE FLANGE SHAPES SHALL BE ASTM A992, Fy=50 ksi. ALL OTHER STEEL SHALL BE ASTM A36, Fy=36 ksi.
3. USE 3/4" ASTM A325N HIGH–STRENGTH BOLTS FOR ALL BOLTED SHOP AND FIELD CONNECTIONS, UNLESS NOTED OTHERWISE.
4. BEAM–TO–GIRDER AND BEAM–TO–COLUMN SHEAR CONNECTIONS SHALL BE MADE WITH STANDARD OR SHORT–SLOTTED HOLES. IF A SHORT–SLOTTED HOLE OCCURS IN AN OUTER PLY, A WASHER SHALL BE INSTALLED OVER THE SLOT.
5. ALL STRUCTURAL STEEL CONNECTIONS NOT DETAILED OR OTHERWISE NOTED SHALL BE STANDARD A.I.S.C. WELDED OR BOLTED USING ALLOWABLE STRESS DESIGN. DETAIL BOLTED OR WELDED CONNECTIONS TO SUPPORT ONE–HALF OF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE ALLOWABLE UNIFORM LOAD TABLES OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.
7. NO HOLES SHALL BE CUT THRU STEEL BEAMS IN FIELD UNLESS APPROVED BY THE ENGINEER.
8. ALL STRUCTURAL STEEL SHALL RECEIVE STANDARD IRON OXIDE SHOP COAT OF PAINT, U.N.O.
9. ALL WELDING SHALL CONFORM TO THE STANDARDS OF THE AMERICAN WELDING SOCIETY. ELECTRODES FOR ALL SHOP AND FIELD WELDS SHALL BE E70XX.

STEEL JOIST NOTES

1. FABRICATION AND ERECTION SHALL CONFORM TO CURRENT S.J.I. STANDARD SPECIFICATIONS AND LOAD TABLES.
2. BRIDGING (NO. OF ROWS AND SIZE) SHALL BE AS REQUIRED BY THE S.J.I. AND/OR JOIST MFGR. ALL BRIDGING SHALL BE PERMANENTLY INSTALLED BEFORE CONSTRUCTION LOADS ARE APPLIED. EACH LINE OF BRIDGING SHALL BE ANCHORED AT ENDS TO WALLS OR BEAMS.
3. NAME OF JOIST MFGR. SHALL BE ON JOIST SHOP DRAWINGS.
4. PROVIDE TWO ERECTION BOLTS AT EACH END OF JOISTS WHICH OCCUR NEAREST COLUMNS. BOLTS MAY BE OMITTED WHERE BEAMS PARALLEL TO JOISTS FRAME INTO SUPPORTING BEAMS AT COLUMNS. BOLTS SHALL BE 1/2" FOR K–SERIES JOISTS AND 3/4" FOR LH–, DLH–, AND SLH–SERIES JOISTS.
5. ALL JOISTS SHALL BE WELDED TO SUPPORTING MEMBERS WITH TWO FILLET WELDS AT EACH END UNLESS NOTED OTHERWISE. WELDS SHALL BE 1/8" x 2" LONG FOR K–SERIES JOISTS, 1/4" x 2" LONG FOR LH– AND DLH–SERIES JOISTS, AND 1/4" x 4" LONG FOR SLH–SERIES JOISTS.
6. ALL CONCENTRATED LOADS PLACED ON JOISTS OR JOIST GIRDERS MUST BE PLACED AT THE PANEL POINT OF THE LOADED CHORD, OR ADDITIONAL WEB MEMBERS (L2x2x3/16 MIN) MUST RUN FROM THE POINT OF LOADING TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD.

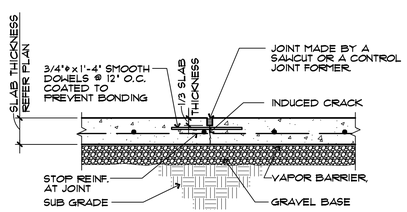
CONCRETE MASONRY UNIT NOTES

1. ALL CONCRETE MASONRY WORK SHALL CONFORM TO A.C.I. STANDARD 530, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES".
2. ALL CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C90 SPECIFICATIONS. ALL CMU SHALL BE LIGHTWEIGHT AGGREGATE WITH A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2000 P.S.I. ON NET AREA (1000 P.S.I. ON GROSS AREA) AT 28 DAYS. MINIMUM PRISM STRENGTH SHALL BE F'm = 1500 P.S.I. AT 28 DAYS.
3. ALL MORTAR FOR CMU SHALL BE TYPE S BY PROPORTION AND CONFORM TO ASTM C270. ALL GROUT (CONCRETE FILL) SHALL CONFORM TO ASTM C476. GROUT SHALL BE 2000 P.S.I. AT 28 DAYS WITH MAXIMUM AGGREGATE SIZE OF 3/8", UNLESS NOTED OTHERWISE. ALL CELLS/COURSES CONTAINING REINFORCING SHALL BE FILLED.
4. PROVIDE CONCRETE FILLED BOND BEAM COURSES IN WALLS AT THE TOP, BOTTOM, BEARING LOCATIONS, TOP & BOTTOM OF WALL OPENINGS, AND AT EVERY SIXTH COURSE.
5. PROVIDE CONCRETE FILLED VERTICAL CORES IN THE WALLS AT EACH END, EACH SIDE OF CONTROL JOINTS, EACH SIDE OF WALL OPENINGS, UNDER EACH CONCENTRATED LOAD, AND AT 4'–0" ON CENTER UNLESS OTHERWISE NOTED. PROVIDE STANDARD HOOK AT THE TOP OF ALL VERTICAL WALL REINFORCING. PROVIDE DOWELS INTO FOOTINGS TO MATCH VERTICAL WALL REINFORCING.
6. USE HILTI HIT–HY70 ADHESIVE FOR ANCHORAGE INTO CMU WALLS.
7. REINFORCE BOND BEAMS AND FILLED VERTICAL CORES WITH REINFORCING BARS CONFORMING TO ASTM A615, GRADE 60. LAP SPLICES FOR REINFORCEMENT SHALL BE 48 BAR DIA. MIN. UNLESS NOTED OTHERWISE. REBAR POSITIONERS SHALL BE USED TO PLACE BOND BEAM AND VERTICAL REINFORCING. STANDARD BAR SIZES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS:

WALL TYPE	BOND BEAMS	FILLED CORES
8" CMU	(2) #4	SEE DETAILS
12" CMU	(2) #5	SEE DETAILS

LOADING NOTES

1.	APPLICABLE BUILDING CODE:	IBC 2015
2.	DESIGN WIND SPEED (ULT.):	115 MPH (250 MPH REFUGE AREA)
3.	SEISMIC PARAMETERS:	Sds 12.2%, Sd1 7.0% SITE CLASS C
4.	ROOF LIVE LOAD:	20 p.s.f.
5.	MEZZANINE LIVE LOAD:	125 p.s.f.



CONTROL JOINT

1 TYPICAL SLAB JOINT DETAIL
SCALE: NONE
19032F02

PRE–ENGINEERED METAL BUILDING NOTES

1. METAL BUILDING SHALL BE DESIGNED AND DETAILED FOR THE FOLLOWING LOADING CRITERIA:

   ROOF LIVE LOAD ---- 20 PSF
   NOTE: NO LIVE LOAD REDUCTION WILL BE ALLOWED.

   ROOF DEAD LOAD ----3 PSF
   ROOF COLLATERAL LOAD ----5 PSF

   WIND LOAD ---- AS PER IBC 2015
   115 MPH – EXPOSURE "C"

   BUILDING A–ENCLOSED
   BUILDING B–PARTIALLY ENCLOSED
   BUILDING C–OPEN

2. BASE OF COLUMNS SHALL BE DESIGNED AS PINNED CONNECTIONS. MOMENT RESISTING BASE CONNECTIONS SHALL NOT BE USED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
3. PROVIDE BRIDGE CRANE DESIGN AND COMPONENTS PER ARCHITECTURAL SPECIFICATIONS.
4. METAL BUILDING MANUFACTURERS SUBMITTALS SHALL INCLUDE THE FOLLOWING:
   A. DETAILED LOADING DIAGRAMS FOR ALL LOAD CASES.
   B. A SINGLE SHEET SUMMARY OF MAXIMUM REACTIONS AND DEFLECTIONS.
   C. DESIGN CALCULATIONS FOR ALL FRAMES AND MEMBERS.
   D. ANCHOR BOLT DESIGN FOR BOTH SHEAR AND UPLIFT.
   E. DESIGN CALCULATIONS FOR "X" BRACING OR PORTAL FRAMES AS REQUIRED TO RESIST LATERAL MOVEMENT PERPENDICULAR TO MAIN FRAMES.

   SUBMITTALS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE STATE OF OKLAHOMA. SUBMITTALS NOT IN ACCORDANCE WITH ABOVE SPECIFICATIONS WILL BE REJECTED.

SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE BY QUALIFIED PERSONNEL WORKING UNDER THE DIRECT SUPERVISION OF THE SPECIAL INSPECTOR.
2. THE INSPECTORS AND TESTING AGENCIES SHALL BE ENGAGED BY THE OWNER OR THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE BUILDING OFFICIAL, PRIOR TO COMMENCING WORK.
3. THE SPECIAL INSPECTOR SHALL REPORT TO THE OWNER, ARCHITECT, ENGINEER, CONCTACTOR AND BUILDING OFFICIAL THE ACTIVITIES THAT WERE OBSERVED.
4. APPARENT DEVIATIONS FROM THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER OF RECORD (SER) IMMEDIATELY.
5. SPECIAL INSPECTION REQUIREMENTS ARE IN ADDITION TO THE NORMAL MATERIAL TESTING FOR QUALITY ASSURANCE PERFORMED BY THE OWNER'S TESTING LABORATORIES AND CONTAINED IN THE SPECIFICATIONS. THE SPECIAL INSPECTION AND OWNERS TESTING PROGRAM ARE INTENDED TO COMPLEMENT ONE ANOTHER. THE SPECIAL INSPECTOR SHALL MAINTAIN RECORD COPIES OF ALL MATERIAL TEST REPORTS FOR THE STRUCTURAL PORTIONS OF THE PROJECT.
6. THE FOLLOWING STRUCTURAL ITEMS REQUIRE SPECIAL INSPECTION:

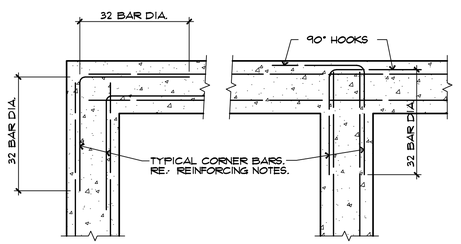
   SOIL: THE SOIL ENGINEER IS TO VERIFY
   – THE SITE CONDITIONS ARE THE SAME AS ASSUMED IN THE SOIL REPORT
   – EXCAVATION, PROOFROLLING AND FILL PAD CONSTRUCTION
   – THE SOIL IS COMPACTED TO SPECIFIED REQUIREMENTS
   – BEARING SURFACE MATERIAL FOR FOOTINGS

   CAST–IN–PLACE CONCRETE:
   – REBAR INSTALLATION PRIOR TO CLOSING THE FORMS OR DELIVERY OF CONCRETE TO THE JOBSITE.
   – DURING TAKING OF TEST SPECIMENS
   – CONCRETE PLACEMENT AND CONSOLIDATION OF FOUNDATIONS AND SLABS
   – ANCHOR BOLTS EMBEDDED IN CONCRETE

   CMU WALLS:
   – OBSERVE INITIAL LAYING OF BLOCKS FOR CONFORMANCE WITH ACCEPTABLE STANDARDS OF WORKMANSHIP.
   – OBSERVE PLACEMENT OF REINFORCING FOR REQUIRED SIZE AND SPACING.
   – VERIFY PROPER CLEAN OUT OF CELLS PRIOR TO GROUTING.
   – COMPLY WITH LEVEL 2 INSPECTION OF MASONRY CONST. (TABLE 1704.5.3)

   STEEL:
   – STRUCTURAL STEEL FABRICATION AND ERECTION
   – WELDED AND BOLTED STEEL CONNECTIONS

7. THE SPECIAL INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY THE BUILDING CODE. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A CITY INSPECTOR.
8. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
9. WORK REQUIRING SPECIAL INSPECTION THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE CITY INSPECTOR IS SUBJECT TO REMOVEL OR EXPOSURE AT THE COST OF THE CONTRACTOR.



NOTE: REINFORCING SHOWN APPLIES TO TOP, BOTTOM & INTERMEDIATE BARS.

2 TYPICAL CORNER REINFORCING DETAIL
SCALE: NONE
19032F04

TAP ARCHITECTURE

MARK EUDALEY
STRUCTURAL ENGINEERS
6656 N.W. 39th Expressway
Bethany, OK 73008
PH: 405.789.4433 FAX: 405.789.4589
CA #99 MEE#19032

SEAL

PROJECT

CITY OF MOORE
PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
S1.0

PROJECT NUMBER
1707.3

GRADE BEAM SCHEDULE–BUILDING A PHASE 1

BEAM		MAIN REINFORCING							STIRRUPS				REMARKS
MARK	SIZE	No	Sz	Length	Placing		Sketch		No	Sz	Typ	End-Spacing	
GB1A	18 W	2	5	22–4	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	2	5	21–0	BTM	L 0–4			6	3	S1	RE–1@12,5@24	
GB2A	18 W	2	5	23–6	TOP	L 1–8			5	3	S1	LE–1@12,4@24	
	24 D	2	5	21–0	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB3A	18 W	2	5	23–8	TOP	L 1–10			4	3	S1	LE–1@12,3@24	
	24 D	2	5	21–0	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB4A	18 W	2	5	22–4	TOP	L 1–10			6	3	S1	LE–1@12,5@24	
	24 D	2	5	21–0	BTM	L 0–6			4	3	S1	RE–1@12,3@24	
GB5A	18 W	2	5	35–4	TOP	L 0–4			6	3	S1	LE–1@12,5@24	
	24 D	3	7	31–6	BTM	L 0–4			9	3	S1	RE–1@12,8@24	
GB6A	18 W	2	5	37–3	TOP	L 3–10			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB7A	18 W	2	5	33–3	TOP	L 3–9			8	3	S1	LE–1@12,7@24	
	24 D	3	7	30–0	BTM	L 0–6			7	3	S1	RE–1@12,6@24	
GB8A	18 W	2	5	35–4	TOP	L 0–4			6	3	S1	LE–1@12,5@24	
	24 D	3	7	31–6	BTM	L 0–4			9	3	S1	RE–1@12,8@24	
GB9A	18 W	2	5	37–3	TOP	L 3–10			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB10A	18 W	2	5	33–3	TOP	L 3–9			8	3	S1	LE–1@12,7@24	
	24 D	3	7	30–0	BTM	L 0–6			7	3	S1	RE–1@12,6@24	
GB11A	24 W	2	7	30–7	TOP	L 2–10			4	3	S1	LE–1@12,3@24	
	36 D	6	8	26–2	BTM	L 2–10			12	3	S1	RE–1@5,5@10,3@24	
									1	3	S1	LCANT RE–1@12	
GB12A	24 W	2	8	24–8	TOP	L 4–10			8	3	S1	LE–1@5,5@10,2@24	
	36 D	2	8	18–9	BTM	L 0–6			4	3	S1	RE–1@12,3@24	
GB13A	24 W	7	5	23–10	TOP	L 2–10			2	3	S1	LE–1@12,1@24	
	36 D	2	8	16–11	BTM	L 0–9			9	3	S1	RE–1@5,5@10,3@24	
GB14A	24 W	2	6	31–3	TOP	L 4–3			12	3	S1	LE–1@5,9@10,2@24	
	36 D	6	8	27–6	BTM	L 0–6			8	3	S1	RE–1@5,4@10,3@24	
									1	3	S1	RCANT LE–1@12	
GB15A	18 W	2	5	16–7	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	2	5	15–3	BTM	L 0–4			4	3	S1	RE–1@12,3@24	
GB16A	18 W	2	5	19–3	TOP	L 1–9			2	3	S1	LE–1@12,1@24	
	24 D	2	5	16–8	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB17A	18 W	2	5	34–11	TOP	L 1–8			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB18A	18 W	2	5	36–2	TOP	L 3–2			7	3	S1	LE–1@12,6@24	
	24 D	2	5	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB19A	18 W	2	5	36–6	TOP	L 3–0			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–11	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB20A	24 W	2	7	19–3	TOP	L 3–6			4	3	S1	LE–1@12,3@24	
	24 D	2	7	15–4	BTM	L 0–6			3	3	S1	RE–1@12,2@24	
GB21A	18 W	2	5	20–1	TOP	L 1–9			1	3	S1	LE–1@12	
	24 D	2	5	16–2	BTM	L 0–6			7	3	S1	RE–1@12,6@24	
GB22A	18 W	2	5	32–5	TOP	L 2–1			9	3	S1	LE–1@12,8@24	
	24 D	3	7	30–10	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB23A	18 W	2	5	16–7	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	2	5	15–3	BTM	L 0–4			4	3	S1	RE–1@12,3@24	
GB24A	18 W	2	5	19–3	TOP	L 1–9			2	3	S1	LE–1@12,1@24	
	24 D	2	5	16–8	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB25A	18 W	2	5	34–11	TOP	L 1–8			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB26A	18 W	2	5	36–2	TOP	L 3–2			7	3	S1	LE–1@12,6@24	
	24 D	2	5	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB27A	18 W	2	5	35–3	TOP	L 3–0			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB28A	18 W	2	5	18–6	TOP	L 2–5			4	3	S1	LE–1@12,3@24	
	24 D	2	5	16–1	BTM	L 0–6			3	3	S1	RE–1@12,2@24	
GB29A	18 W	2	5	20–9	TOP	L 1–9			1	3	S1	LE–1@12	
	24 D	2	5	16–9	BTM	L 0–6			7	3	S1	RE–1@12,6@24	
GB30A	18 W	2	5	32–7	TOP	L 2–3			9	3	S1	LE–1@12,8@24	
	24 D	3	7	30–10	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB31A	18 W	2	5	22–4	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	2	5	21–0	BTM	L 0–4			6	3	S1	RE–1@12,5@24	
GB32A	18 W	2	5	23–6	TOP	L 1–8			5	3	S1	LE–1@12,4@24	
	24 D	2	5	21–0	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB33A	18 W	2	5	23–8	TOP	L 1–10			4	3	S1	LE–1@12,3@24	
	24 D	2	5	21–0	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB34A	18 W	2	5	22–4	TOP	L 1–10			6	3	S1	LE–1@12,5@24	
	24 D	2	5	21–0	BTM	L 0–6			4	3	S1	RE–1@12,3@24	
GB35A	18 W	2	5	18–9	TOP	L 0–4			8	3	S1	LE–1@5,6@10,1@24	
	24 D	6	6	18–9	BTM	L 0–4			9	3	S1	RE–1@5,6@10,2@24	
GB36A	18 W	2	5	18–9	TOP	L 0–4			8	3	S1	LE–1@5,6@10,1@24	
	24 D	6	6	18–9	BTM	L 0–4			9	3	S1	RE–1@5,6@10,2@24	
GB37A	18 W	2	5	13–5	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	2	6	13–5	BTM	L 0–4			4	3	S1	RE–1@12,3@24	
GB38A	24 W	2	6	18–10	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	4	8	16–3	BTM	L 0–4			9	3	S1	RE–1@5,6@10,2@24	
GB39A	24 W	2	7	19–5	TOP	L 3–8			8	3	S1	LE–1@5,6@10,1@24	
	24 D	4	8	16–3	BTM	L 0–6			4	3	S1	RE–1@12,3@24	
GB40A	24 W	2	6	18–10	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	4	8	16–3	BTM	L 0–4			9	3	S1	RE–1@5,6@10,2@24	
GB41A	24 W	2	7	19–5	TOP	L 3–8			8	3	S1	LE–1@5,6@10,1@24	
	24 D	4	8	16–3	BTM	L 0–6			4	3	S1	RE–1@12,3@24	
GB42A	24 W	2	5	14–7	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	4	8	14–7	BTM	L 0–4			4	3	S1	RE–1@12,3@24	

Notes :
1 – Beam Size is in Inches.
2 – Reinforcing Length does not include Hook Lengths.
3 – Placing Dim is the Distance (ft–in) from Left Support to Left End of Bar.
('L' indicates distance is left of Left Support, 'R' is right of Left Support.)
4 – Stirrup Spacing is from face of Support.
(LE – Left End, RE – Right End, LCANT – Cantilever to left of Span, RCANT – Cantilever to right of Span.)
5 – Stirrup Types :

S1

GRADE BEAM SCHEDULE–BUILDING A PHASE 2

BEAM		MAIN REINFORCING							STIRRUPS				REMARKS
MARK	SIZE	No	Sz	Length	Placing		Sketch		No	Sz	Typ	End-Spacing	
GB43A	18 W	2	5	33–8	TOP	L 0–4			6	3	S1	LE–1@12,5@24	
	24 D	3	7	30–3	BTM	L 0–4			9	3	S1	RE–1@12,8@24	
GB44A	18 W	2	5	37–3	TOP	L 3–6			7	3	S1	LE–1@12,6@24	
	24 D	2	5	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB45A	18 W	2	5	35–2	TOP	L 4–3			9	3	S1	LE–1@12,8@24	
	24 D	3	7	31–5	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB46A	18 W	2	5	33–8	TOP	L 0–4			6	3	S1	LE–1@12,5@24	
	24 D	3	7	30–3	BTM	L 0–4			9	3	S1	RE–1@12,8@24	
GB47A	18 W	2	5	37–3	TOP	L 3–6			7	3	S1	LE–1@12,6@24	
	24 D	2	5	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB48A	18 W	2	5	35–2	TOP	L 4–3			9	3	S1	LE–1@12,8@24	
	24 D	3	7	31–5	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB49A	18 W	2	5	22–4	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	2	5	21–0	BTM	L 0–4			6	3	S1	RE–1@12,5@24	
GB50A	18 W	2	5	23–6	TOP	L 1–8			5	3	S1	LE–1@12,4@24	
	24 D	2	5	21–0	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB51A	18 W	2	5	23–8	TOP	L 1–10			4	3	S1	LE–1@12,3@24	
	24 D	2	5	21–0	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB52A	18 W	2	5	22–4	TOP	L 1–10			6	3	S1	LE–1@12,5@24	
	24 D	2	5	21–0	BTM	L 0–6			4	3	S1	RE–1@12,3@24	

Notes :
1 – Beam Size is in Inches.
2 – Reinforcing Length does not include Hook Lengths.
3 – Placing Dim is the Distance (ft–in) from Left Support to Left End of Bar.
('L' indicates distance is left of Left Support, 'R' is right of Left Support.)
4 – Stirrup Spacing is from face of Support.
(LE – Left End, RE – Right End, LCANT – Cantilever to left of Span, RCANT – Cantilever to right of Span.)
5 – Stirrup Types :

S1

GRADE BEAM SCHEDULE–BUILDING B

BEAM		MAIN REINFORCING							STIRRUPS				REMARKS
MARK	SIZE	No	Sz	Length	Placing		Sketch		No	Sz	Typ	End-Spacing	
GB1B	18 W	2	5	18–6	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	2	5	17–1	BTM	L 0–4			5	3	S1	RE–1@12,4@24	
GB2B	18 W	2	5	18–4	TOP	L 1–10			5	3	S1	LE–1@12,4@24	
	24 D	2	5	17–0	BTM	L 0–6			3	3	S1	RE–1@12,2@24	
GB3B	18 W	2	5	33–10	TOP	L 0–4			6	3	S1	LE–1@12,5@24	
	24 D	3	7	30–3	BTM	L 0–4			9	3	S1	RE–1@12,8@24	
GB4B	18 W	2	5	36–5	TOP	L 3–10			8	3	S1	LE–1@12,7@24	
	24 D	2	5	31–0	BTM	L 0–6			7	3	S1	RE–1@12,6@24	
GB5B	18 W	2	5	35–8	TOP	L 2–8			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB6B	18 W	2	5	35–11	TOP	L 3–0			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB7B	18 W	2	5	35–10	TOP	L 2–11			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB8B	18 W	2	5	35–10	TOP	L 2–11			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB9B	18 W	2	5	35–11	TOP	L 2–11			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB10B	18 W	2	5	35–8	TOP	L 3–0			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB11B	18 W	2	5	36–5	TOP	L 2–7			7	3	S1	LE–1@12,6@24	
	24 D	2	5	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB12B	18 W	2	5	33–10	TOP	L 4–1			9	3	S1	LE–1@12,8@24	
	24 D	3	7	30–3	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB13B	18 W	2	5	18–6	TOP	L 0–4			3	3	S1	LE–1@12,2@24	
	24 D	2	5	17–1	BTM	L 0–4			5	3	S1	RE–1@12,4@24	
GB14B	18 W	2	5	18–4	TOP	L 1–10			5	3	S1	LE–1@12,4@24	
	24 D	2	5	17–0	BTM	L 0–6			3	3	S1	RE–1@12,2@24	
GB15B	18 W	2	5	33–10	TOP	L 0–4			6	3	S1	LE–1@12,5@24	
	24 D	3	7	30–3	BTM	L 0–4			9	3	S1	RE–1@12,8@24	
GB16B	18 W	2	5	36–5	TOP	L 3–10			8	3	S1	LE–1@12,7@24	
	24 D	2	5	31–0	BTM	L 0–6			7	3	S1	RE–1@12,6@24	
GB17B	18 W	2	5	35–8	TOP	L 2–8			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB18B	18 W	2	5	35–11	TOP	L 3–0			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB19B	18 W	2	5	35–10	TOP	L 2–11			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB20B	18 W	2	5	35–10	TOP	L 2–11			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB21B	18 W	2	5	35–11	TOP	L 2–11			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB22B	18 W	2	5	35–8	TOP	L 3–0			7	3	S1	LE–1@12,6@24	
	24 D	2	6	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB23B	18 W	2	5	36–5	TOP	L 2–7			7	3	S1	LE–1@12,6@24	
	24 D	2	5	31–0	BTM	L 0–6			8	3	S1	RE–1@12,7@24	
GB24B	18 W	2	5	33–10	TOP	L 4–1			9	3	S1	LE–1@12,8@24	
	24 D	3	7	30–3	BTM	L 0–6			6	3	S1	RE–1@12,5@24	

Notes :
1 – Beam Size is in Inches.
2 – Reinforcing Length does not include Hook Lengths.
3 – Placing Dim is the Distance (ft–in) from Left Support to Left End of Bar.
('L' indicates distance is left of Left Support, 'R' is right of Left Support.)
4 – Stirrup Spacing is from face of Support.
(LE – Left End, RE – Right End, LCANT – Cantilever to left of Span, RCANT – Cantilever to right of Span.)
5 – Stirrup Types :

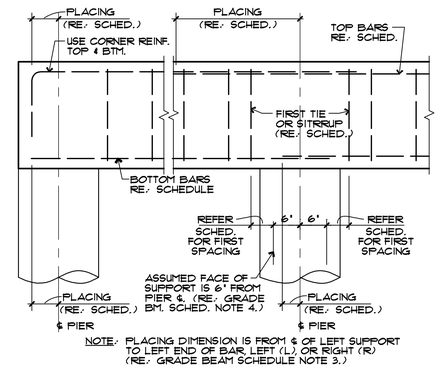
S1

GRADE BEAM SCHEDULE–BUILDING C

BEAM		MAIN REINFORCING							STIRRUPS				REMARKS
MARK	SIZE	No	Sz	Length	Placing		Sketch		No	Sz	Typ	End-Spacing	
GB1C	24 W	2	6	28–11	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	4	8	25–6	BTM	L 0–4			12	3	S1	RE–1@5,6@10,5@24	
GB2C	24 W	4	5	30–8	TOP	L 5–0			12	3	S1	LE–1@5,7@10,4@24	
	24 D	4	8	26–2	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB3C	24 W	4	5	29–11	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	4	8	25–6	BTM	L 0–4			12	3	S1	RE–1@5,6@10,5@24	
GB4C	24 W	2	6	29–7	TOP	L 3–11			12	3	S1	LE–1@5,7@10,4@24	
	24 D	4	8	26–2	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB5C	24 W	4	5	29–11	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	4	8	25–6	BTM	L 0–4			12	3	S1	RE–1@5,6@10,5@24	
GB6C	24 W	2	6	29–7	TOP	L 3–11			12	3	S1	LE–1@5,7@10,4@24	
	24 D	4	8	26–2	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB7C	24 W	2	6	24–5	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	8	6	21–2	BTM	L 0–4			8	3	S1	RE–1@5,3@10,4@24	
GB8C	24 W	2	6	26–1	TOP	L 3–6			5	3	S1	LE–1@12,4@24	
	24 D	8	5	21–4	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB9C	24 W	2	6	25–3	TOP	L 2–3			4	3	S1	LE–1@12,3@24	
	24 D	8	5	21–4	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB10C	24 W	2	6	24–5	TOP	L 3–9			8	3	S1	LE–1@5,3@10,4@24	
	24 D	8	6	21–2	BTM	L 0–6			4	3	S1	RE–1@12,3@24	
GB11C	24 W	2	5	22–10	TOP	L 0–4			4	3	S1	LE–1@12,3@24	
	24 D	3	6	21–2	BTM	L 0–4			6	3	S1	RE–1@12,5@24	
GB12C	24 W	2	5	24–4	TOP	L 2–2			5	3	S1	LE–1@12,4@24	
	24 D	2	6	21–4	BTM	L 0–6			5	3	S1	RE–1@12,4@24	
GB13C	24 W	2	5	24–4	TOP	L 1–10			4	3	S1	LE–1@12,3@24	
	24 D	2	6	21–4	BTM	L 0–6			6	3	S1	RE–1@12,5@24	
GB14C	24 W	2	5	22–10	TOP	L 2–2			6	3	S1	LE–1@12,5@24	
	24 D	3	6	21–2	BTM	L 0–6			4	3	S1	RE–1@12,3@24	

Notes :
1 – Beam Size is in Inches.
2 – Reinforcing Length does not include Hook Lengths.
3 – Placing Dim is the Distance (ft–in) from Left Support to Left End of Bar.
('L' indicates distance is left of Left Support, 'R' is right of Left Support.)
4 – Stirrup Spacing is from face of Support.
(LE – Left End, RE – Right End, LCANT – Cantilever to left of Span, RCANT – Cantilever to right of Span.)
5 – Stirrup Types :

S1



NOTE: PLACING DIMENSION IS FROM ℄ OF LEFT SUPPORT TO LEFT END OF BAR, LEFT (L) OR RIGHT (R) (RE: GRADE BEAM SCHEDULE NOTE 3.)

1 TYPICAL GRADE BEAM DETAIL

SCALE: NONE

19032F05

TAP ARCHITECTURE

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BRIAN E. BAKER
14621
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PROJECT

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CITY of MOORE OKLAHOMA 1893

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

GRADE BEAM SCHEDULES

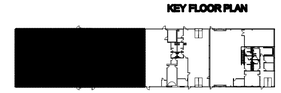
SHEET NUMBER

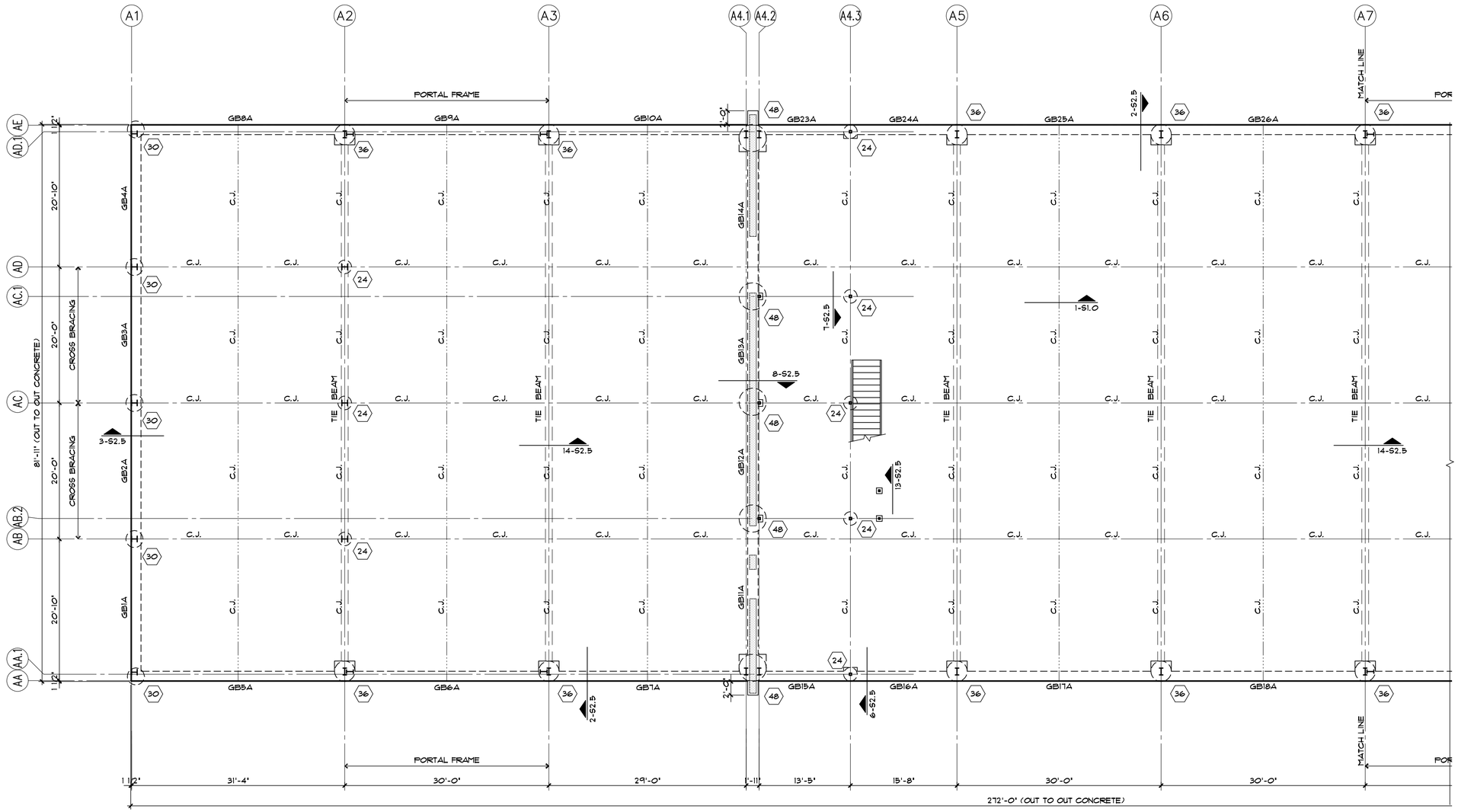
S1.1

PROJECT NUMBER

1707.3

KEY FLOOR PLAN





NORTH

BUILDING A FOUNDATION PLAN

SCALE: 1/8"=1'-0"

SLAB ON GRADE IS 6" CONCRETE REINF. W#5@16" o.c., E.W. OVER 15 MIL VAPOR BARRIER OVER 6" GRAVEL OVER 36" SELECT FILL AS DIRECTED BY GEOTECHNICAL REPORT.

REFER TO CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION.

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ISSUES
REVISIONS

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04.30.2021

SHEET TITLE

PHASE 1 BLDG A FOUNDATION PLAN

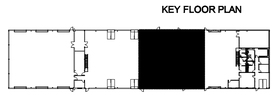
SHEET NUMBER

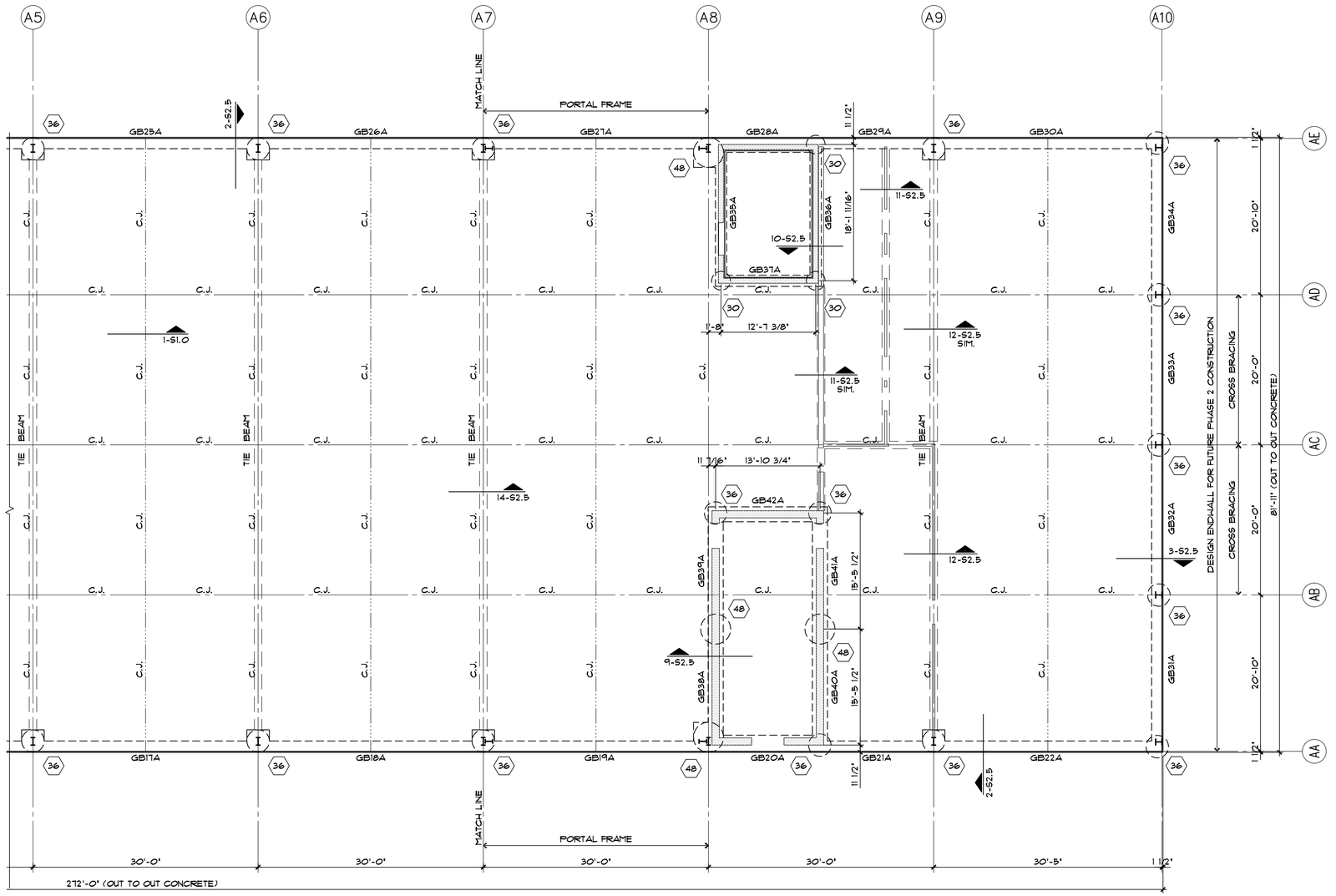
S2.1

PROJECT NUMBER

1707.3

KEY FLOOR PLAN





NORTH

BUILDING A FOUNDATION PLAN

SCALE: 1/8"=1'-0"

SLAB ON GRADE IS 6" CONCRETE REINF. W/#5@16" o.c., E.W. OVER 15 MIL VAPOR BARRIER OVER 6" GRAVEL OVER 36" SELECT FILL AS DIRECTED BY GEOTECHNICAL REPORT.

REFER TO CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION.

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ISSUES REVISIONS

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04.30.2021

SHEET TITLE

PHASE 1 BLDG A FOUNDATION PLAN

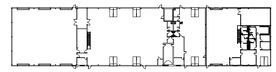
SHEET NUMBER

S2.2

PROJECT NUMBER

1707.3

KEY FLOOR PLAN

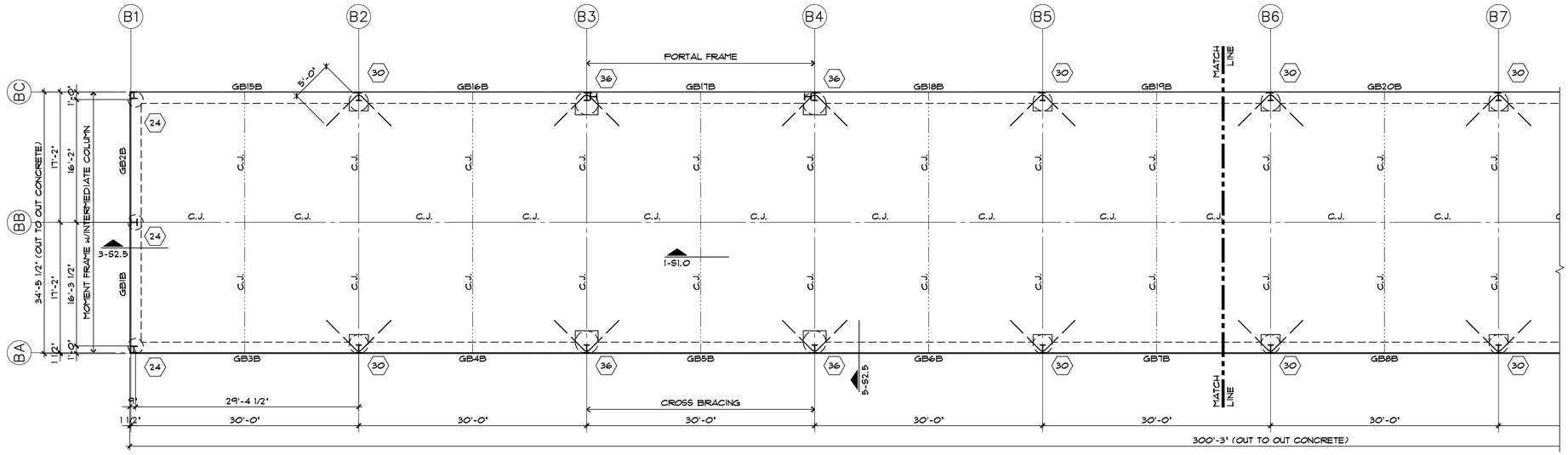


BUILDING A

BUILDING C

[redacted]

BUILDING B



NORTH

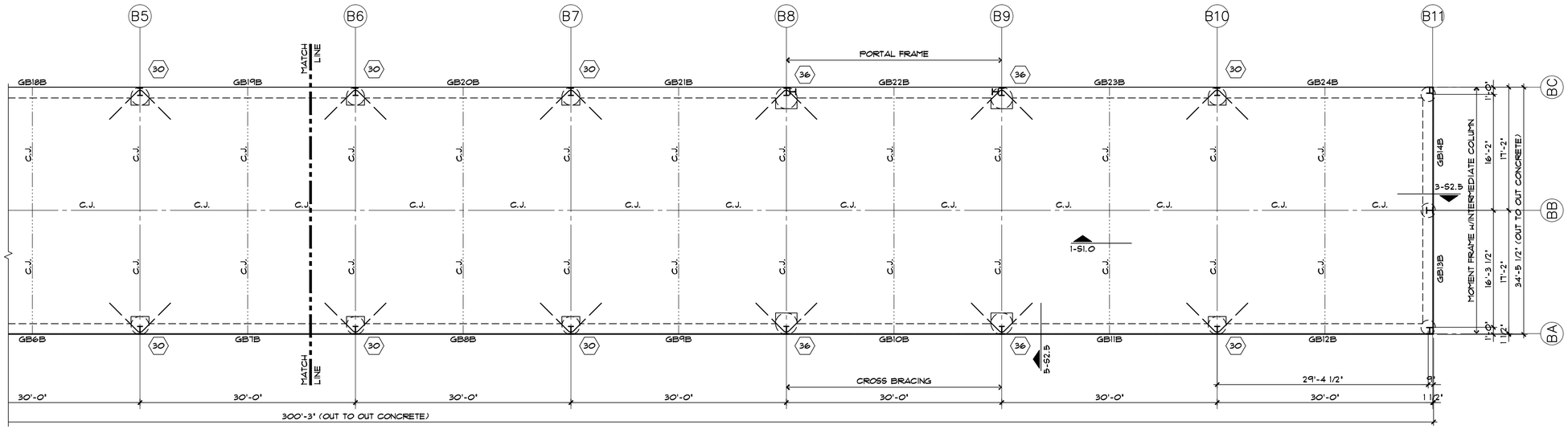
BUILDING B FOUNDATION PLAN

SCALE: 1/8"=1'-0"

SLAB ON GRADE IS 6" CONCRETE REINF. #5@16" o.c., E.W.
OVER 6" GRAVEL OVER OVER 36" SELECT FILL
AS DIRECTED BY GEOTECHNICAL REPORT.

REFER TO CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION.

PROVIDE #6 HAIRPINS AS INDICATED.



NORTH

BUILDING B FOUNDATION PLAN

SCALE: 1/8"=1'-0"

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ISSUES
REVISIONS

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04.30.2021

SHEET TITLE

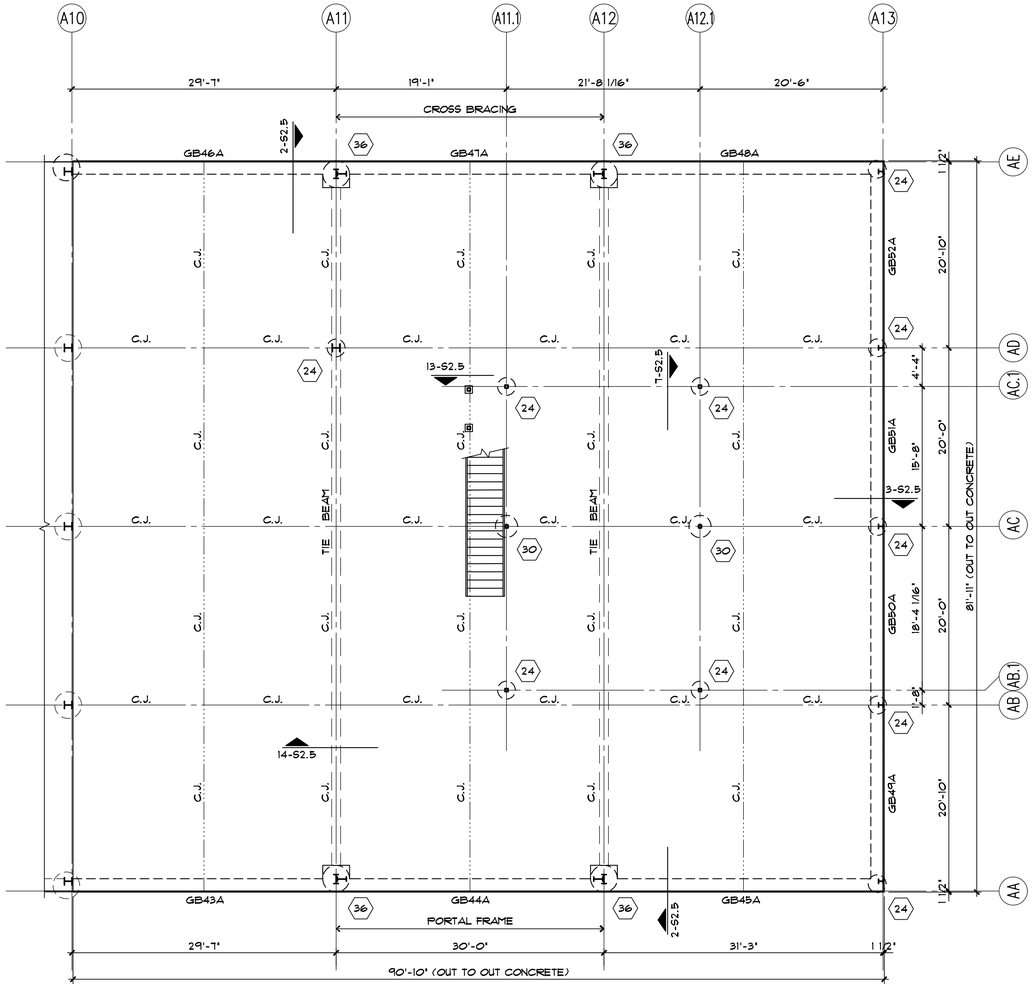
PHASE 1 BLDG B
FOUNDATION
PLAN

SHEET NUMBER

S2.3

PROJECT NUMBER

1707.3



NORTH

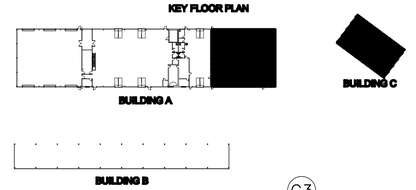
BUILDING A FOUNDATION PLAN

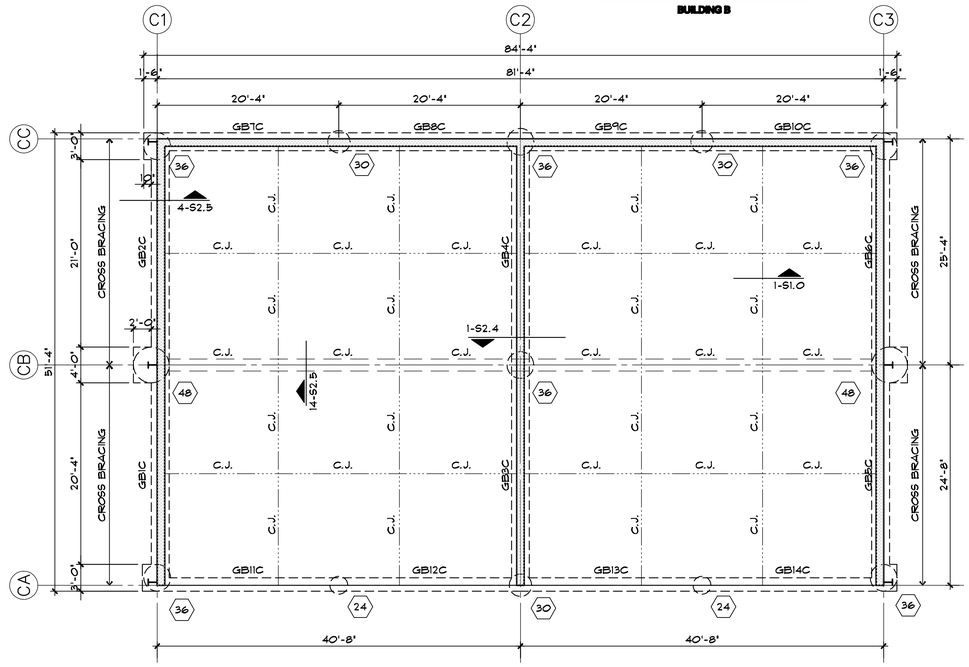
SCALE: 1/8"=1'-0"

SLAB ON GRADE IS 6" CONCRETE REINF. W#5@16" o.c., E.W. OVER 15 MIL VAPOR BARRIER OVER 6" GRAVEL OVER 36" SELECT FILL AS DIRECTED BY GEOTECHNICAL REPORT.

REFER TO CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION.

KEY FLOOR PLAN





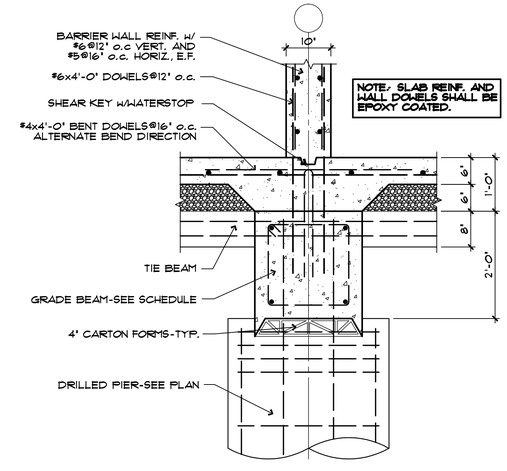
NORTH

BUILDING C FOUNDATION PLAN

SCALE: 1/8"=1'-0"

SLAB ON GRADE IS 6" CONCRETE REINF. W#5@16" o.c., E.W. OVER 6" GRAVEL OVER 36" SELECT FILL AS DIRECTED BY GEOTECHNICAL REPORT.

REFER TO CIVIL DRAWINGS FOR FINISHED FLOOR ELEVATION.



1 GRADE BEAM DETAIL

SCALE: 3/4"=1'-0"

19032F18

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ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

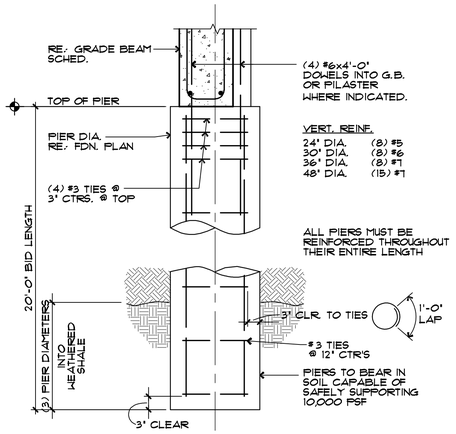
PHASE 2 BLDG A&C FOUNDATION PLAN

SHEET NUMBER

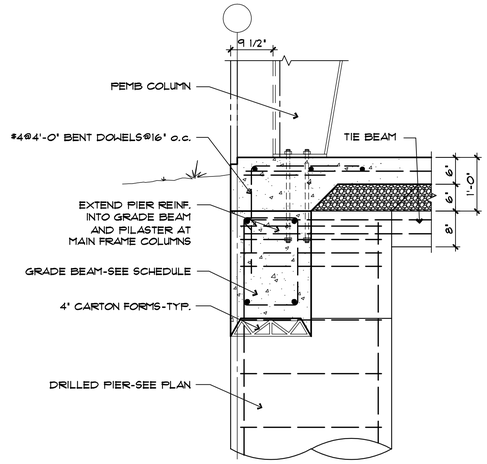
S2.4

PROJECT NUMBER

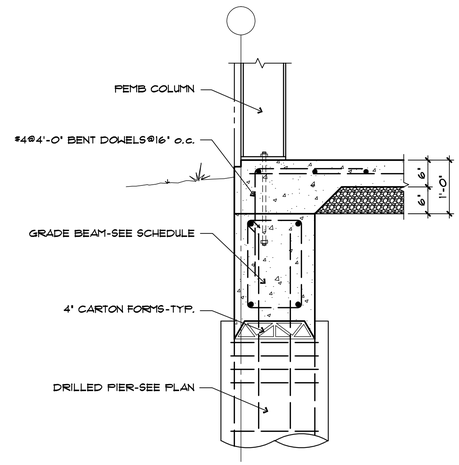
1707.3



1 TYPICAL DRILLED PIER DETAIL
SCALE: NONE 19032F03



2 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F01



3 GRADE BEAM DETAIL
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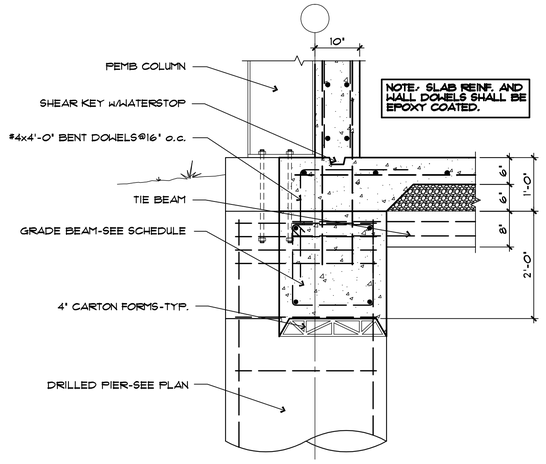
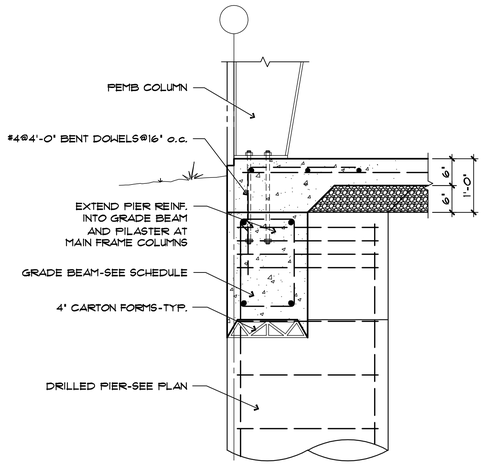
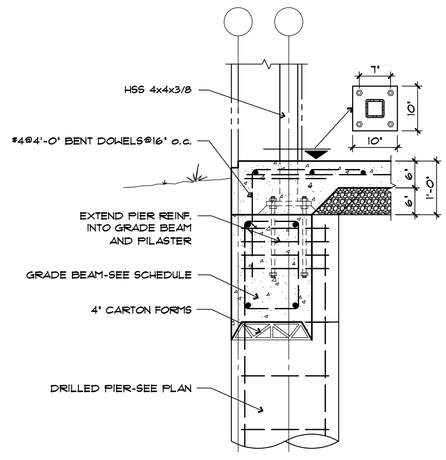


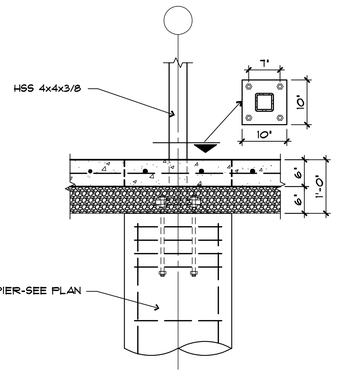
4 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F07



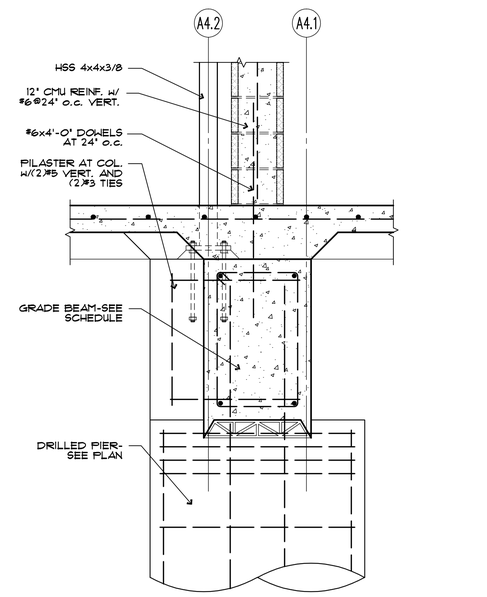
5 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F08



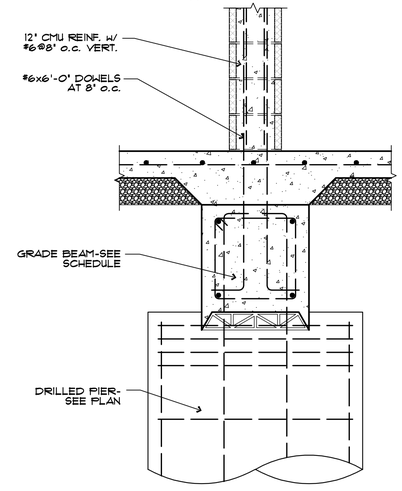
6 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F09



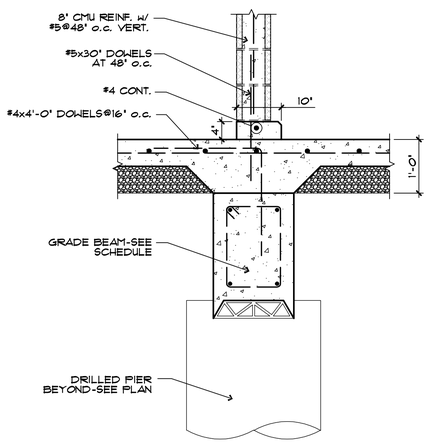
7 DETAIL AT COLUMN
SCALE: 3/4"=1'-0" 19032F10



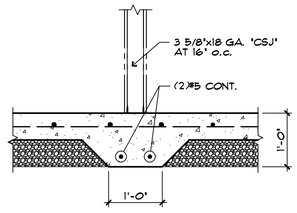
8 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F11



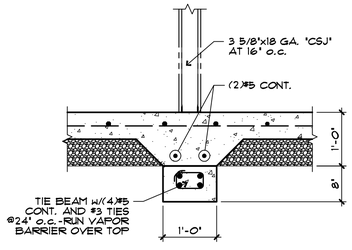
9 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F12



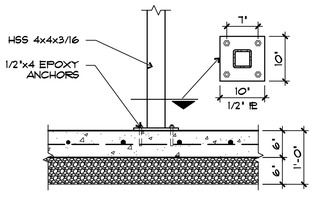
10 GRADE BEAM DETAIL
SCALE: 3/4"=1'-0" 19032F13



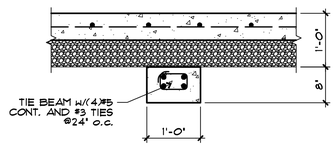
11 SLAB DETAIL
SCALE: 3/4"=1'-0" 19032F14



12 SLAB DETAIL
SCALE: 3/4"=1'-0" 19032F15



13 DETAIL AT COLUMN
SCALE: 3/4"=1'-0" 19032F16



14 DETAIL AT TIE BEAM
SCALE: 3/4"=1'-0" 19032F17

BAR SPLICES AT TIE BEAMS SHALL BE CLASS B TENSION SPLICES.

TAP ARCHITECTURE

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7/30/21

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ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

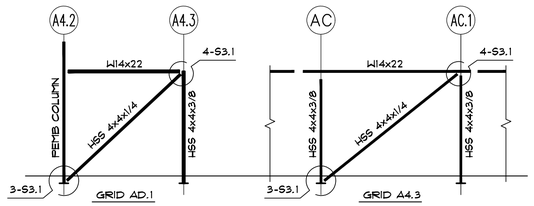
FOUNDATION DETAILS

SHEET NUMBER

S2.5

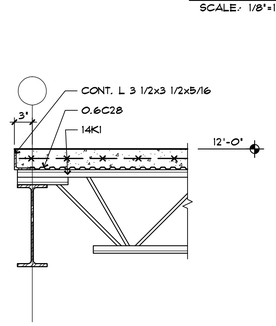
PROJECT NUMBER

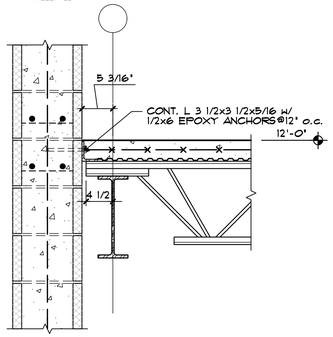
1707.3



FRAMING ELEVATIONS

SCALE: 1/8"=1'-0" MEZZ1-EL



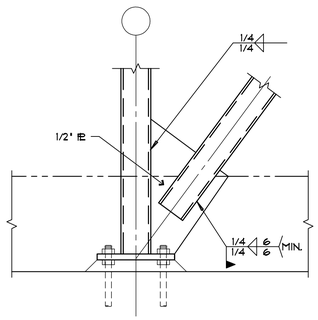


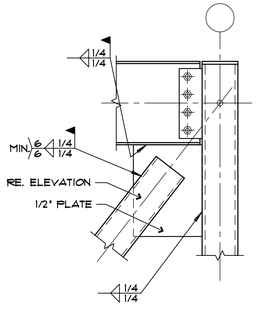
1 FRAMING SECTION

SCALE: 1"=1'-0" 19032FR05

2 FRAMING SECTION

SCALE: 1"=1'-0" 19032FR06





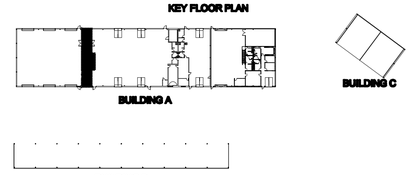
3 BRACING DETAIL

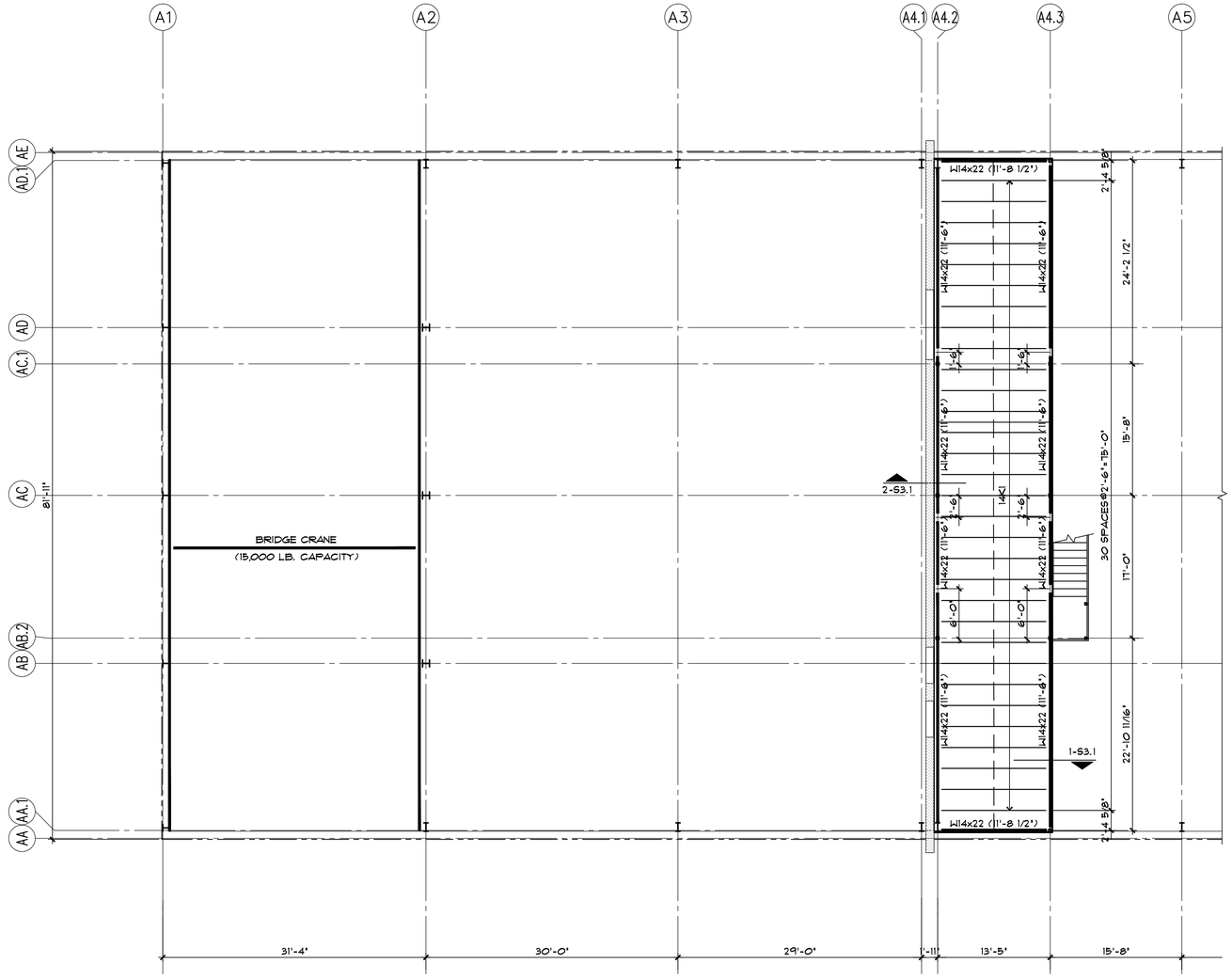
SCALE: 1"=1'-0" 19032FR09

4 BRACING DETAIL

SCALE: 1"=1'-0" 19032FR08

KEY FLOOR PLAN





NORTH

BUILDING A MEZZANINE FRAMING PLAN

SCALE: 1/8"=1'-0"

MEZZANINE FLOOR IS 3 1/2" CONCRETE REINF. W/6x6W2.1xW2.1 WWM

REFER TO ARCHITECTURAL FOR RAILING DETAILS

TAP ARCHITECTURE

MARK EUDALEY
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14621
OKLAHOMA
4/30/21

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REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

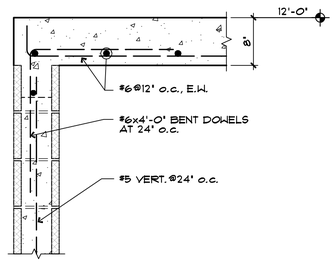
PHASE 1 BLDG A
MEZZANINE
LEVEL PLAN

SHEET NUMBER

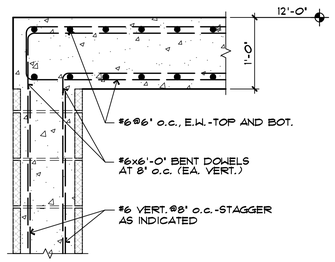
S3.1

PROJECT NUMBER

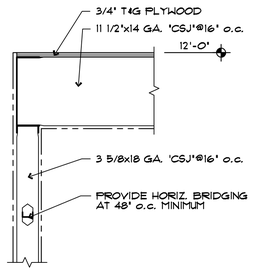
1707.3



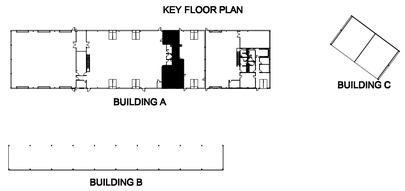
1 FRAMING SECTION
SCALE: 1"=1'-0" 19032FR03

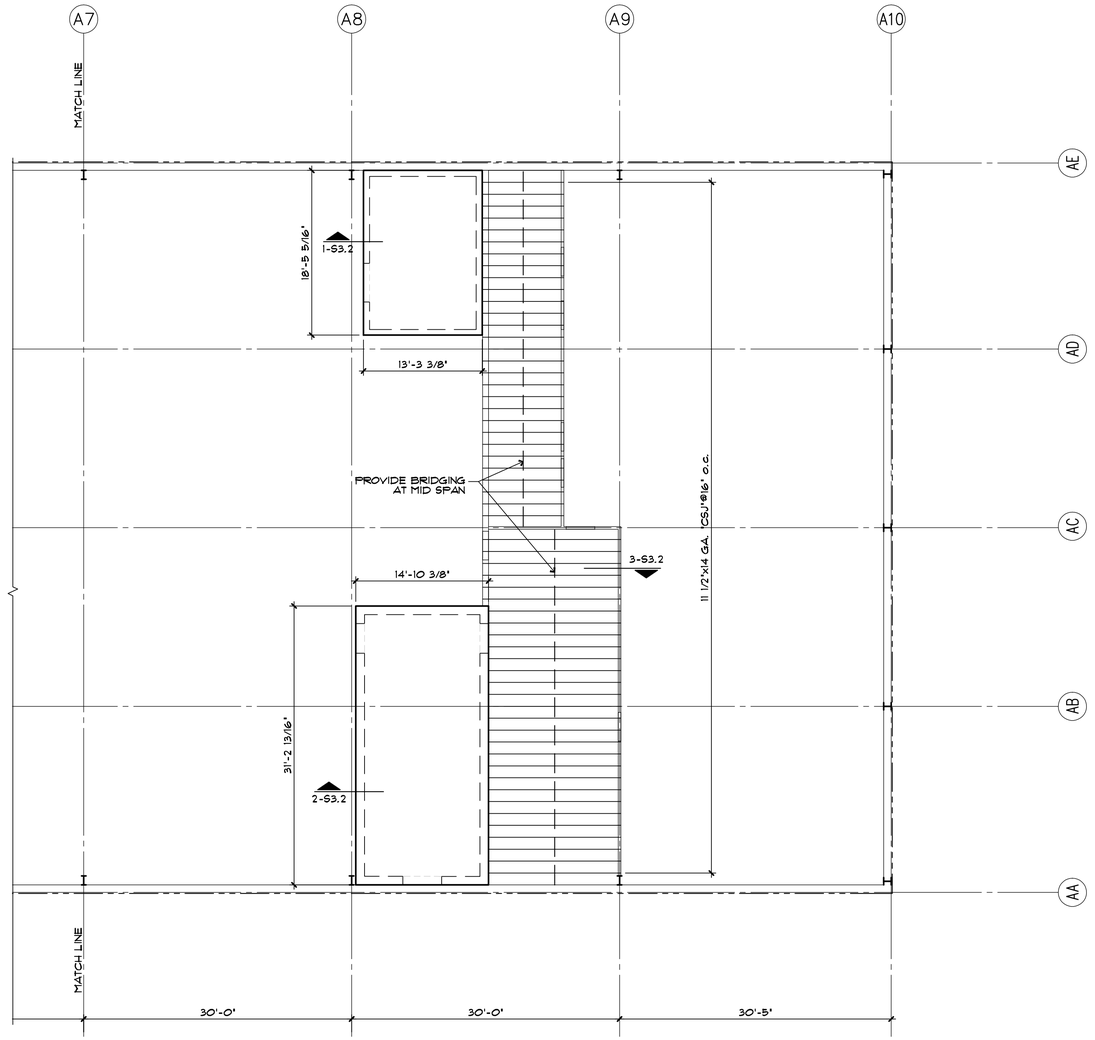


2 FRAMING SECTION
SCALE: 1"=1'-0" 19032FR04



3 FRAMING SECTION
SCALE: 1"=1'-0" 19032FR07





NORTH

BUILDING A STORAGE LEVEL FRAMING PLAN
SCALE: 1/8"=1'-0"

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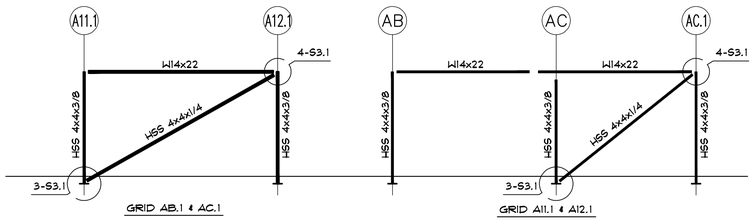
ISSUES REVISIONS
100% ISSUE FOR BID
04.30.2021

SHEET TITLE
PHASE 1 BLDG A MEZZANINE LEVEL PLAN

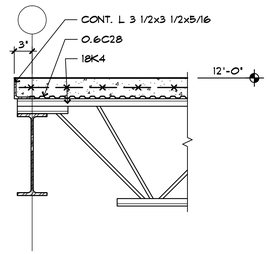
SHEET NUMBER
S3.2

PROJECT NUMBER
1707.3



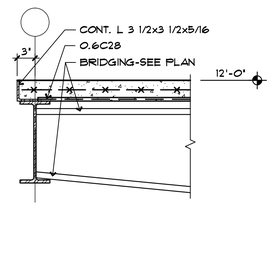
FRAMING ELEVATIONS

SCALE: 1/8"=1'-0" MEZ22-EL



1 FRAMING SECTION

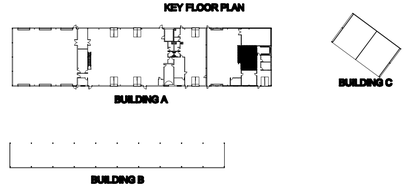
SCALE: 1"=1'-0" 19032FR01

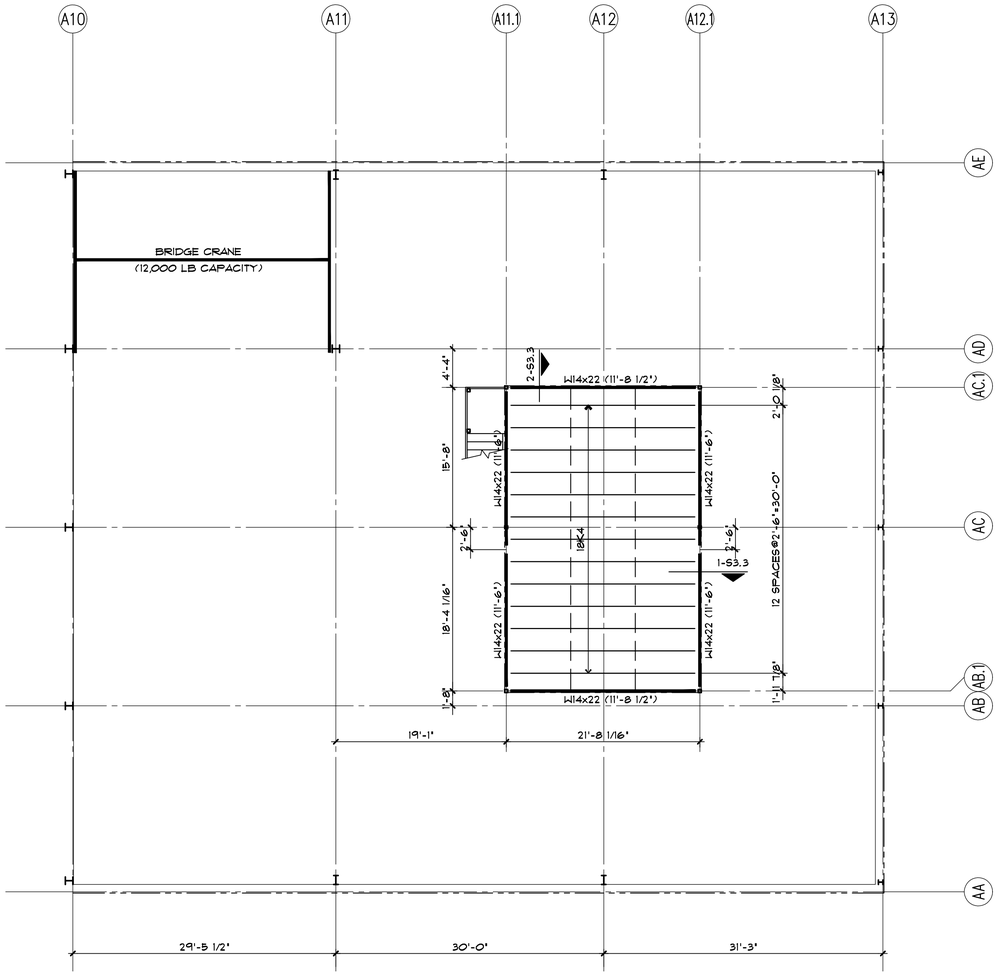


2 FRAMING SECTION

SCALE: 1"=1'-0" 19032FR02

KEY FLOOR PLAN





NORTH

BUILDING A STORAGE LEVEL FRAMING PLAN

SCALE: 1/8"=1'-0"

MEZZANINE FLOOR IS 3 1/2" CONCRETE REINF. W/6x6W2.1xW2.1 WWM

REFER TO ARCHITECTURAL FOR RAILING DETAILS

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ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

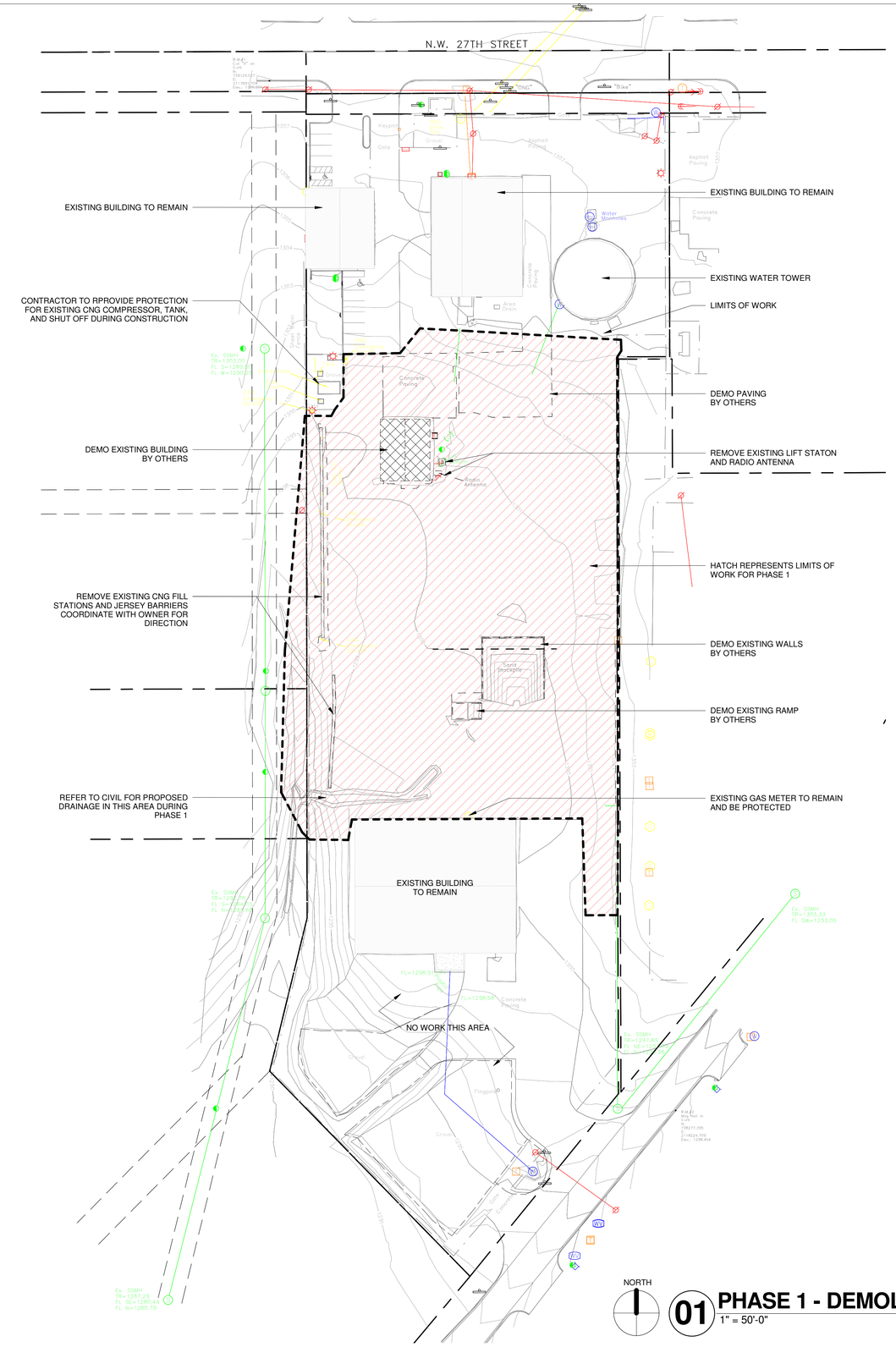
PHASE 2 BLDG A
MEZZANINE
LEVEL PLAN

SHEET NUMBER

S3.3

PROJECT NUMBER

1707.3



01 **PHASE 1 - DEMOLITION SITE PLAN**
1" = 50'-0"

GENERAL NOTES

1. REFER TO CIVIL FOR ADDTIONAL DEMOLITION NOTES ON ALL UTILITIES.

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SHEET TITLE

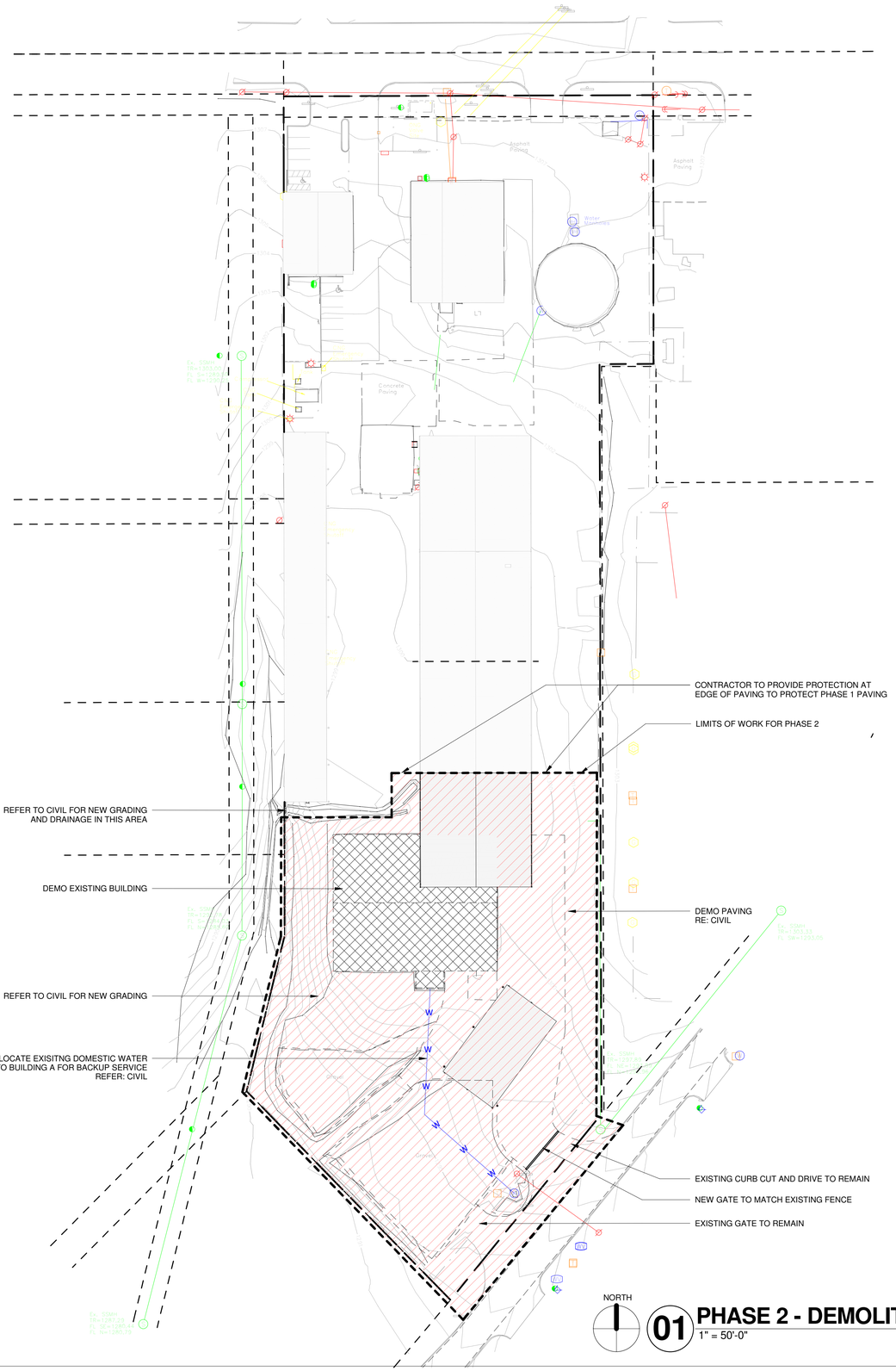
PHASE 1 DEMOLITION SITE PLAN

SHEET NUMBER

AD111

PROJECT NUMBER

1707.3



NORTH

01 PHASE 2 - DEMOLITION SITE PLAN

1" = 50'-0"

GENERAL NOTES

1. REFER TO CIVIL FOR ADDTIONAL DEMOLITION NOTES ON ALL UTILITIES.

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SHEET TITLE

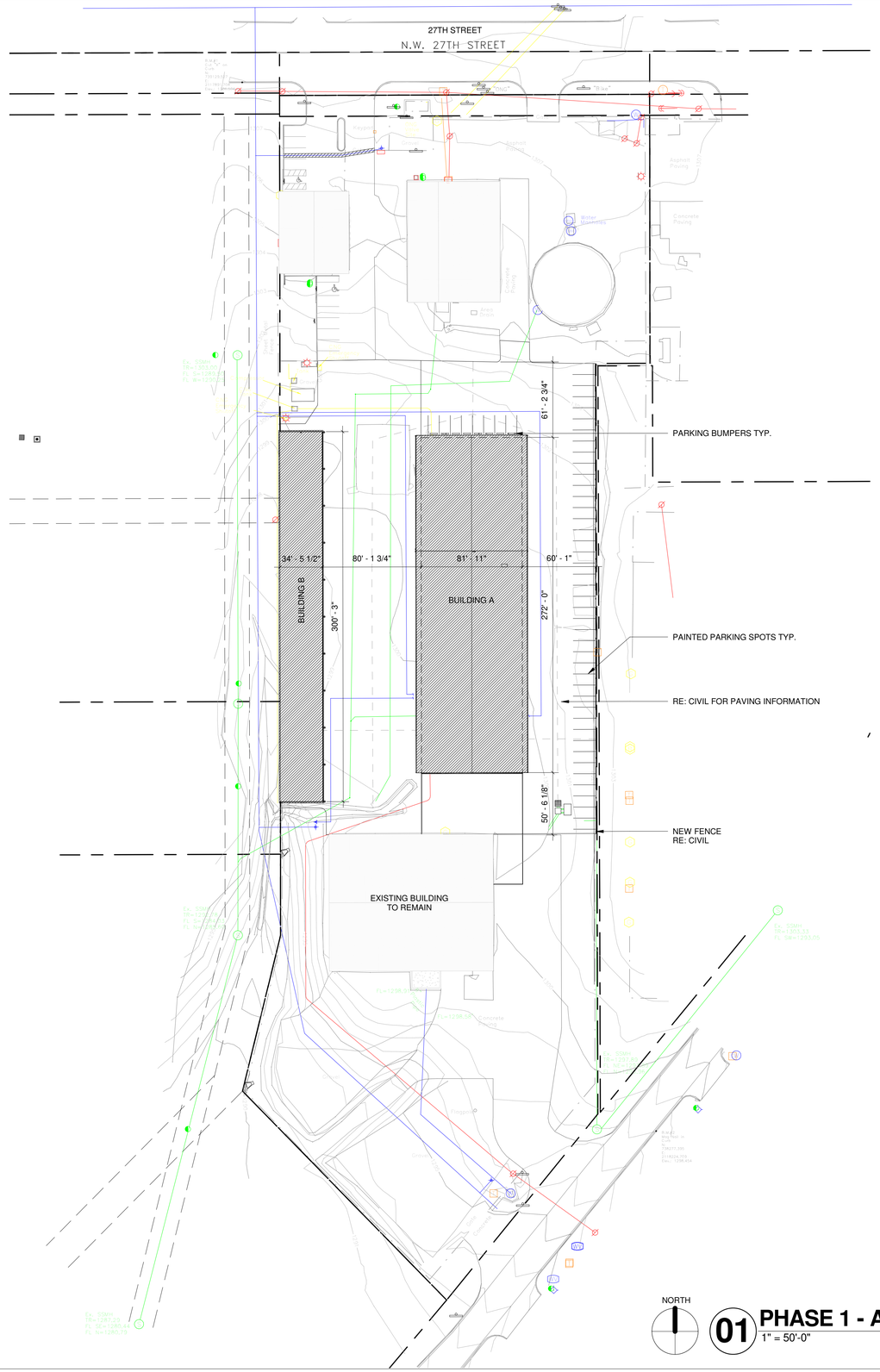
PHASE 2 DEMOLITION SITE PLAN

SHEET NUMBER

AD112

PROJECT NUMBER

1707.3



KEY FLOOR PLAN

BUILDING A

BUILDING C

BUILDING B

NORTH

01 PHASE 1 - ARCHITECTURAL SITE PLAN

1" = 50'-0"

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SHEET TITLE

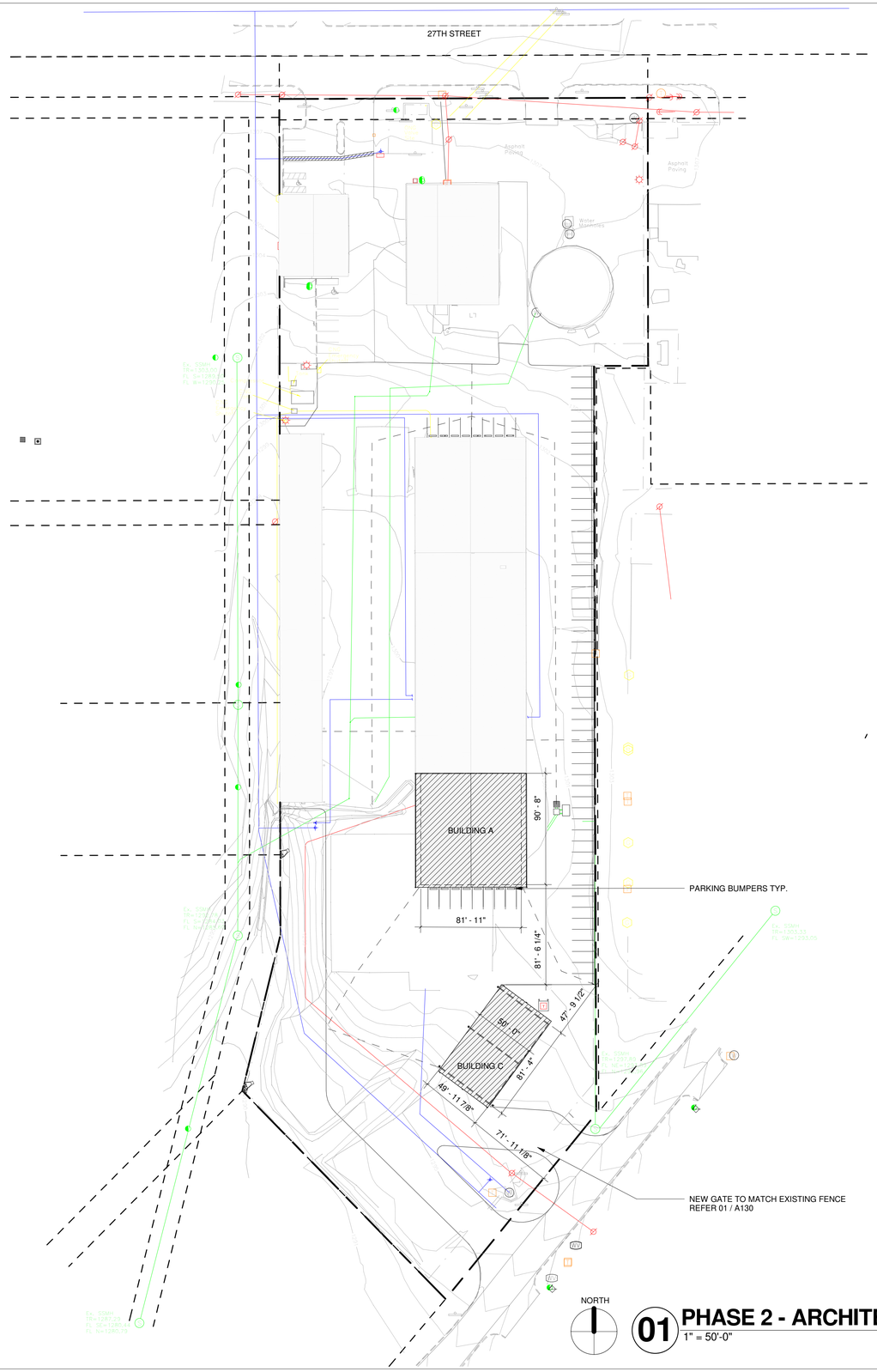
PHASE 1
ARCHITECTURAL SITE PLAN

SHEET NUMBER

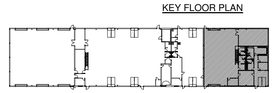
A111

PROJECT NUMBER

1707.3



KEY FLOOR PLAN



01 PHASE 2 - ARCHITECTURAL SITE PLAN

1" = 50'-0"

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04.30.2021

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SHEET TITLE

PHASE 2 ARCHITECTURAL SITE PLAN

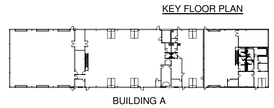
SHEET NUMBER

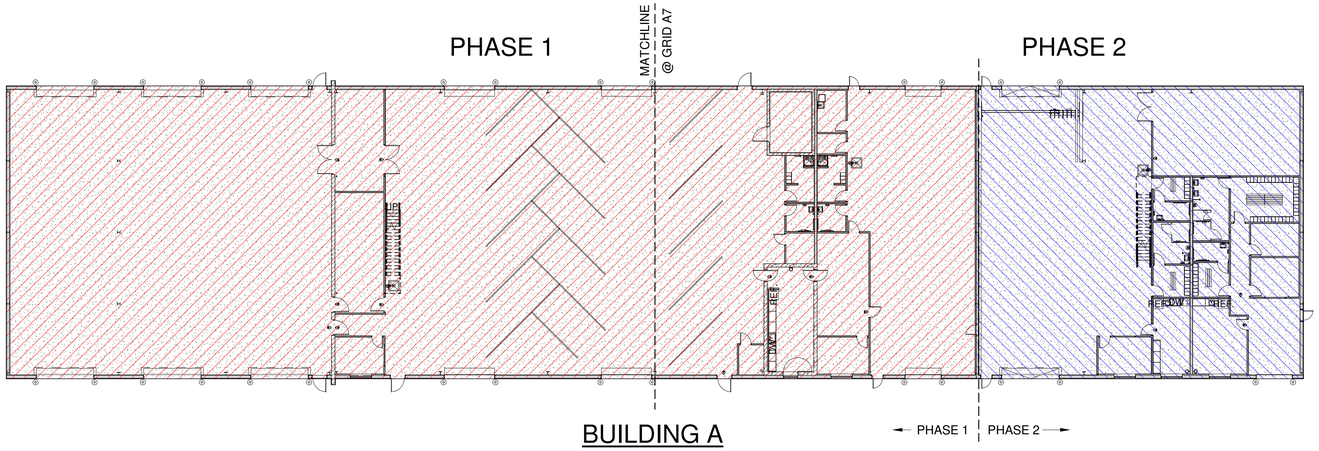
A112

PROJECT NUMBER

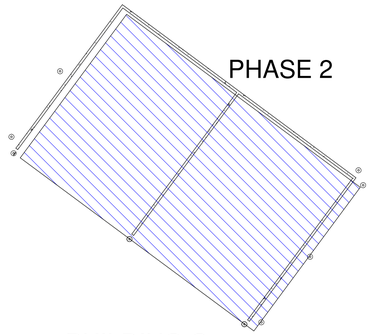
1707.3

KEY FLOOR PLAN



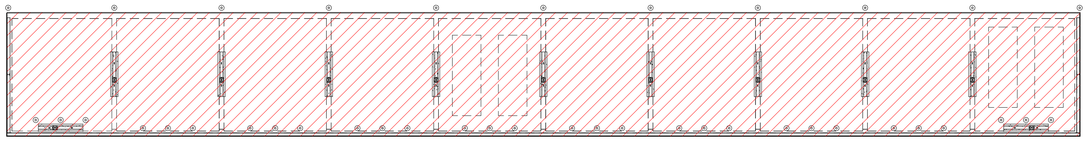


BUILDING A



BUILDING C

PHASE 1



BUILDING B

NORTH

01 OVERALL KEY FLOOR PLAN

1" = 20'-0"

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04.30.2021

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SHEET TITLE

KEY PLAN

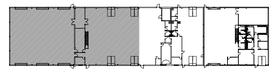
SHEET NUMBER

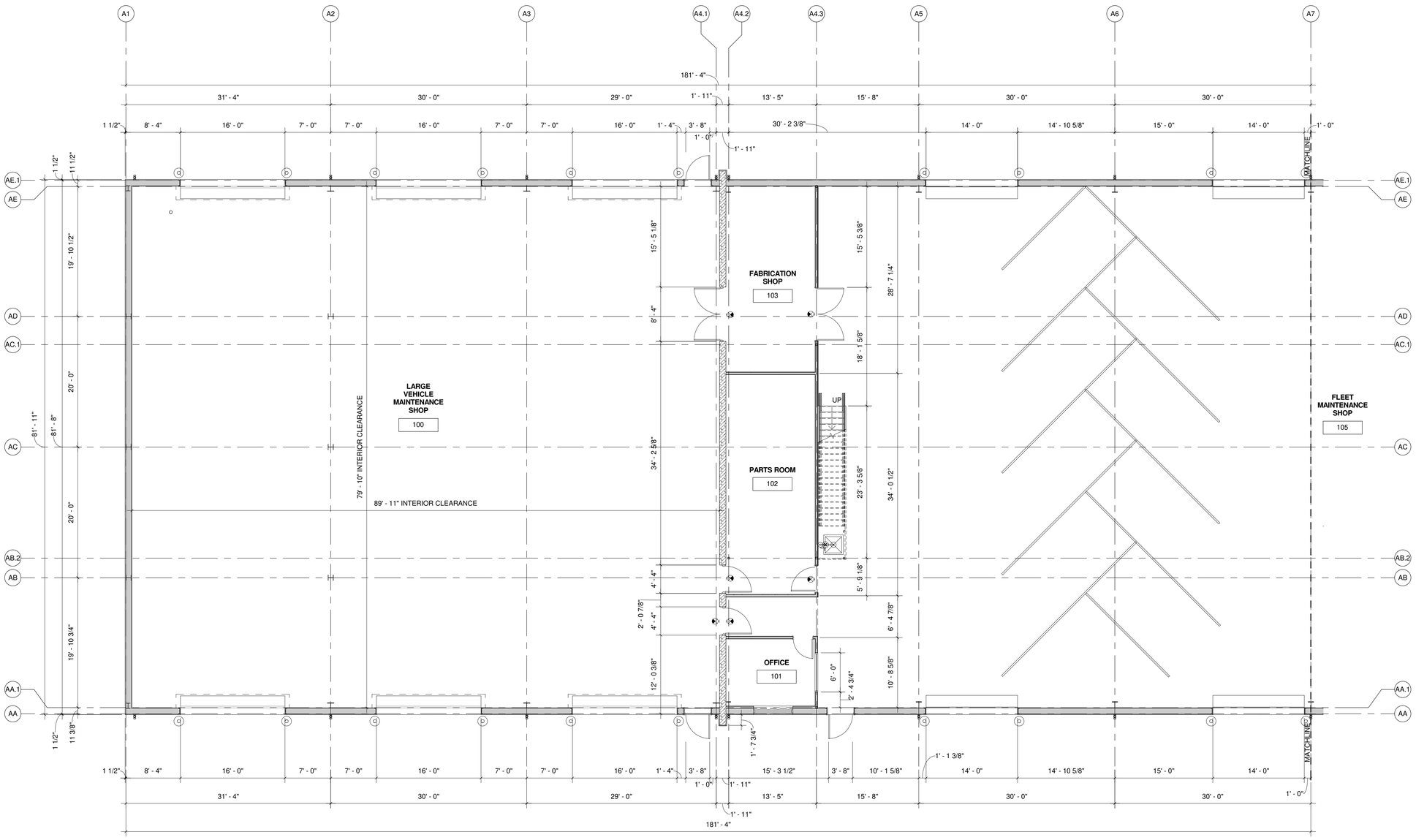
A200

PROJECT NUMBER

1707.3

KEY FLOOR PLAN





NORTH

01 PHASE 1 - BUILDING A DIMENSIONED FLOOR PLAN

1/8" = 1'-0"

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SHEET TITLE

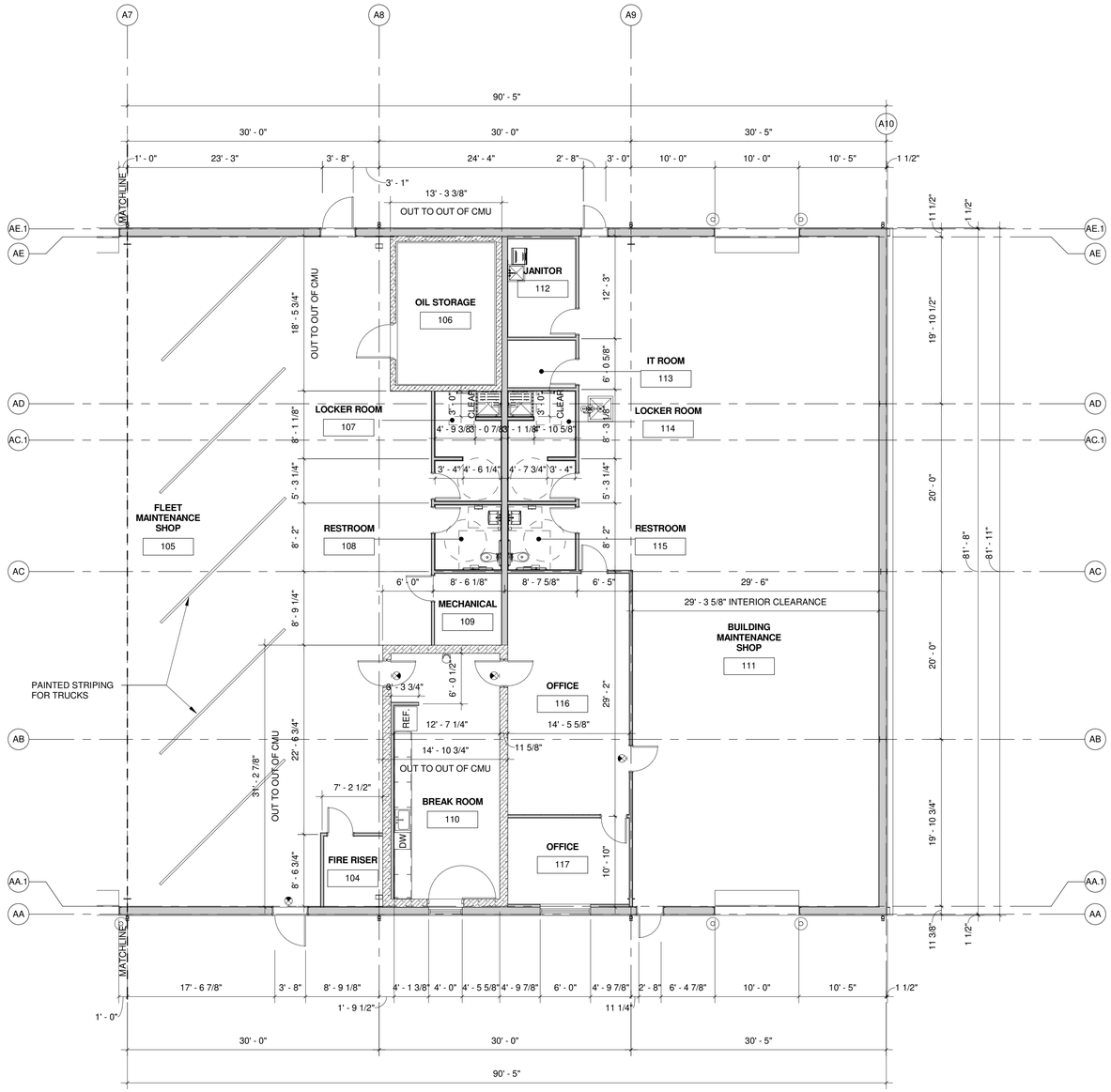
PHASE 1 BUILDING A DIMENSIONED FLOOR PLAN

SHEET NUMBER

A211.1

PROJECT NUMBER

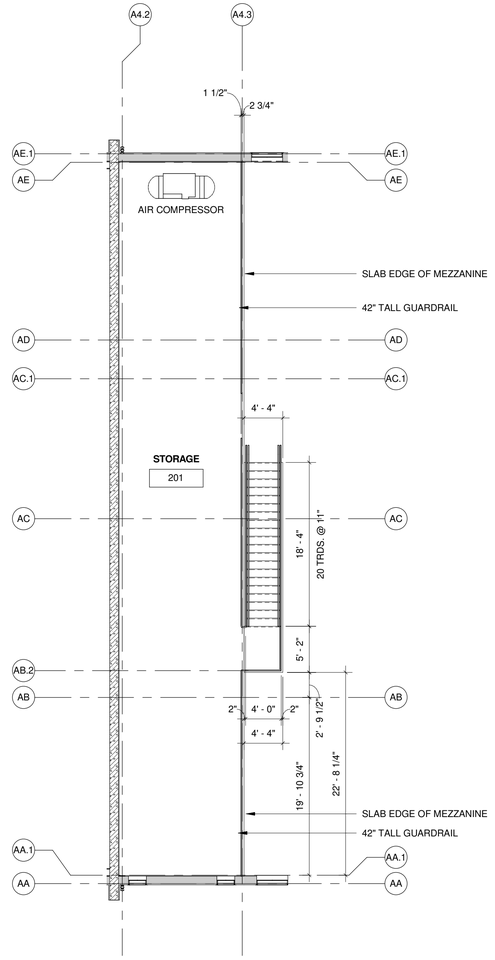
1707.3



NORTH

01 PHASE 1 - BUILDING A DIMENSIONED FLOOR PLAN

1/8" = 1'-0"



NORTH

02 PHASE 1 - MEZZANINE DIMENSIONED PLAN

1/8" = 1'-0"

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SHEET TITLE

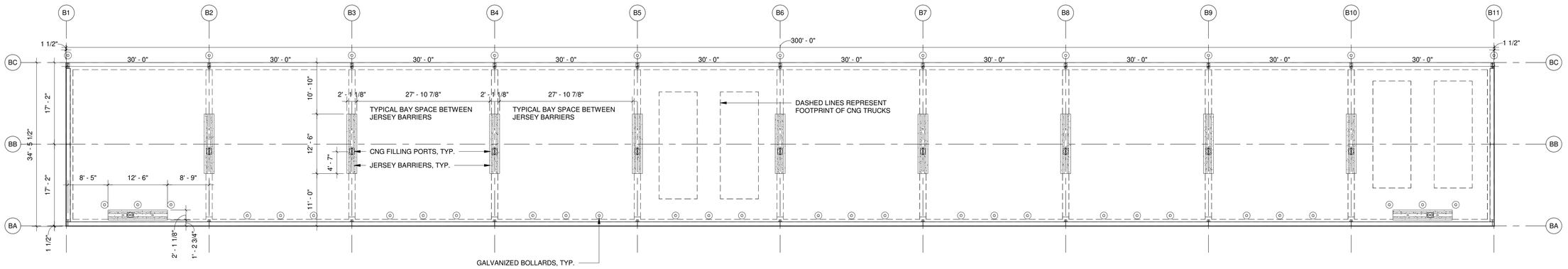
PHASE 1 BUILDING A DIMENSIONED FLOOR PLAN

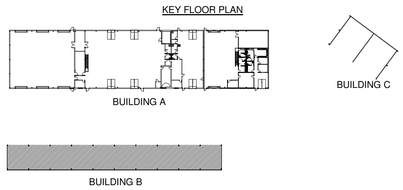
SHEET NUMBER

A211.2

PROJECT NUMBER

1707.3





NORTH

01 PHASE 1 - BUILDING B DIMENSIONED PLAN

3/32" = 1'-0"

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SHEET TITLE

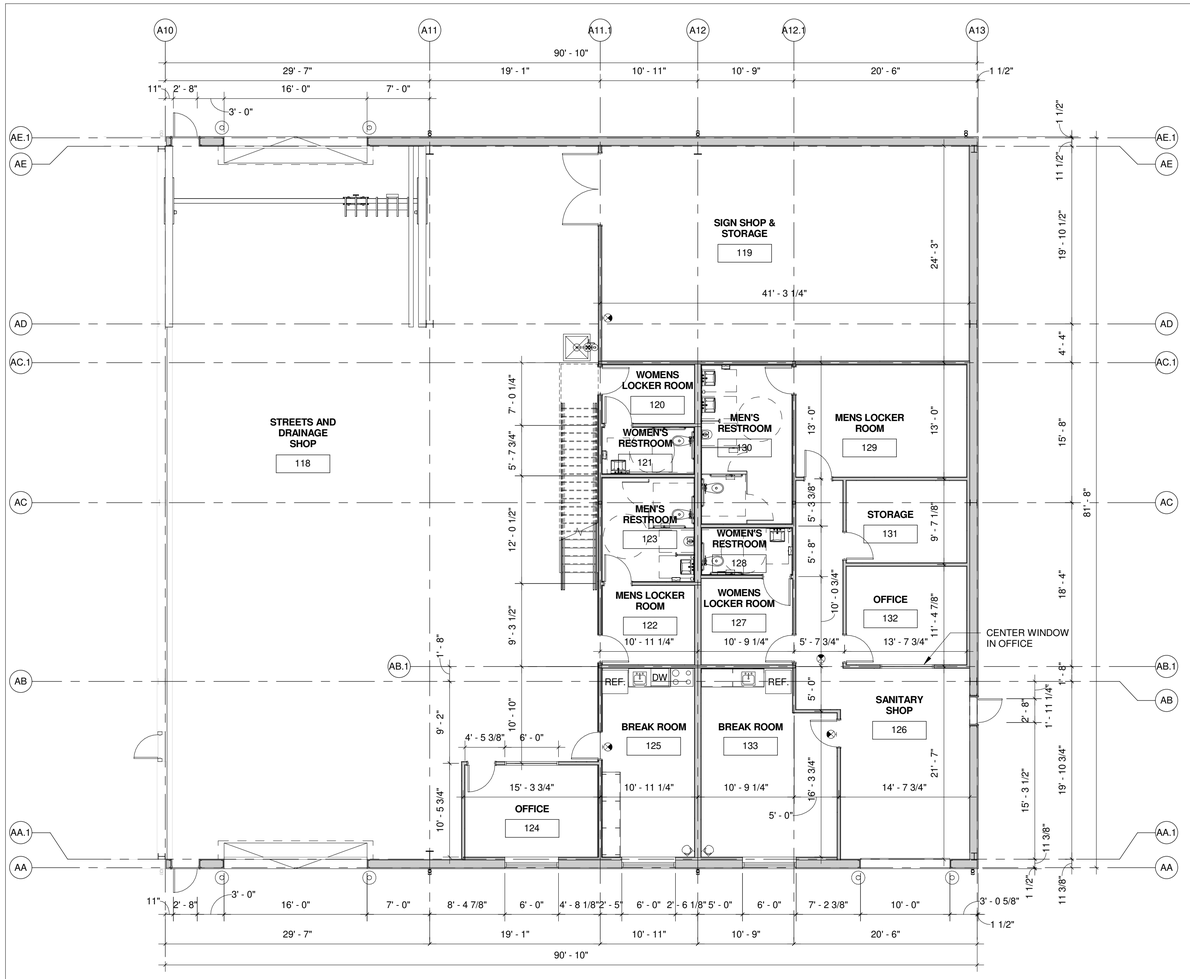
PHASE 1 BUILDING B DIMENSIONED PLAN

SHEET NUMBER

A211.3

PROJECT NUMBER

1707.3

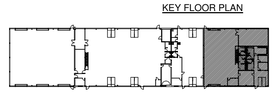


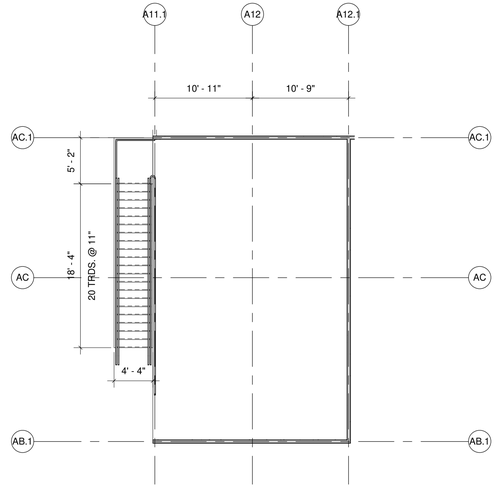
NORTH

01 PHASE 2 - BUILDING A DIMENSIONED FLOOR PLAN

1/8" = 1'-0"

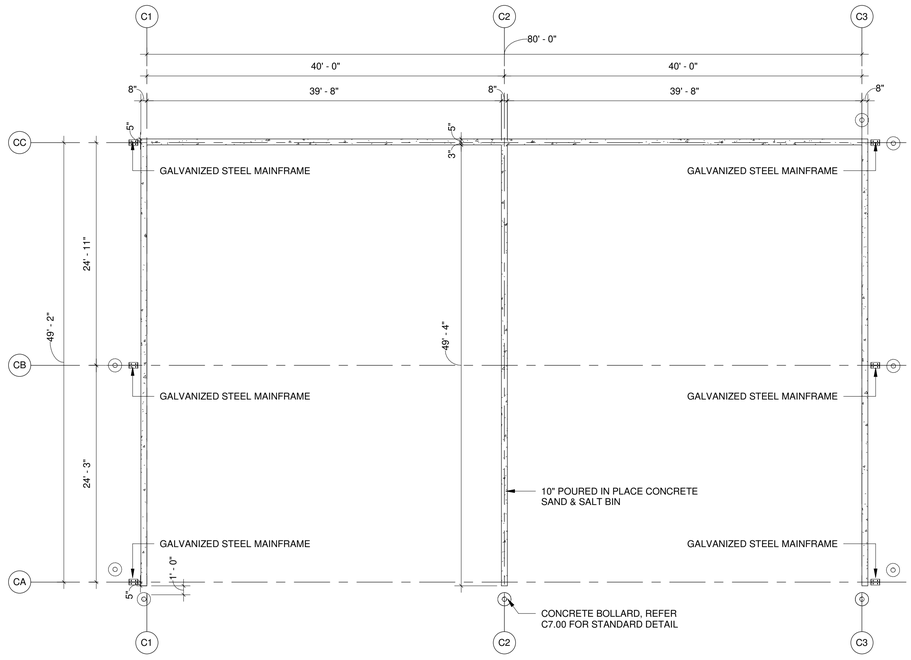
KEY FLOOR PLAN





02 PHASE 2 - MEZZANINE DIMENSIONED PLAN

1/8" = 1'-0"



NORTH

03 PHASE 2 - BUILDING C DIMENSIONED PLAN

1/8" = 1'-0"

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SHEET TITLE

PHASE 2 BUILDINGS A AND C DIMENSIONED FLOOR PLANS

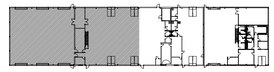
SHEET NUMBER

A212

PROJECT NUMBER

1707.3

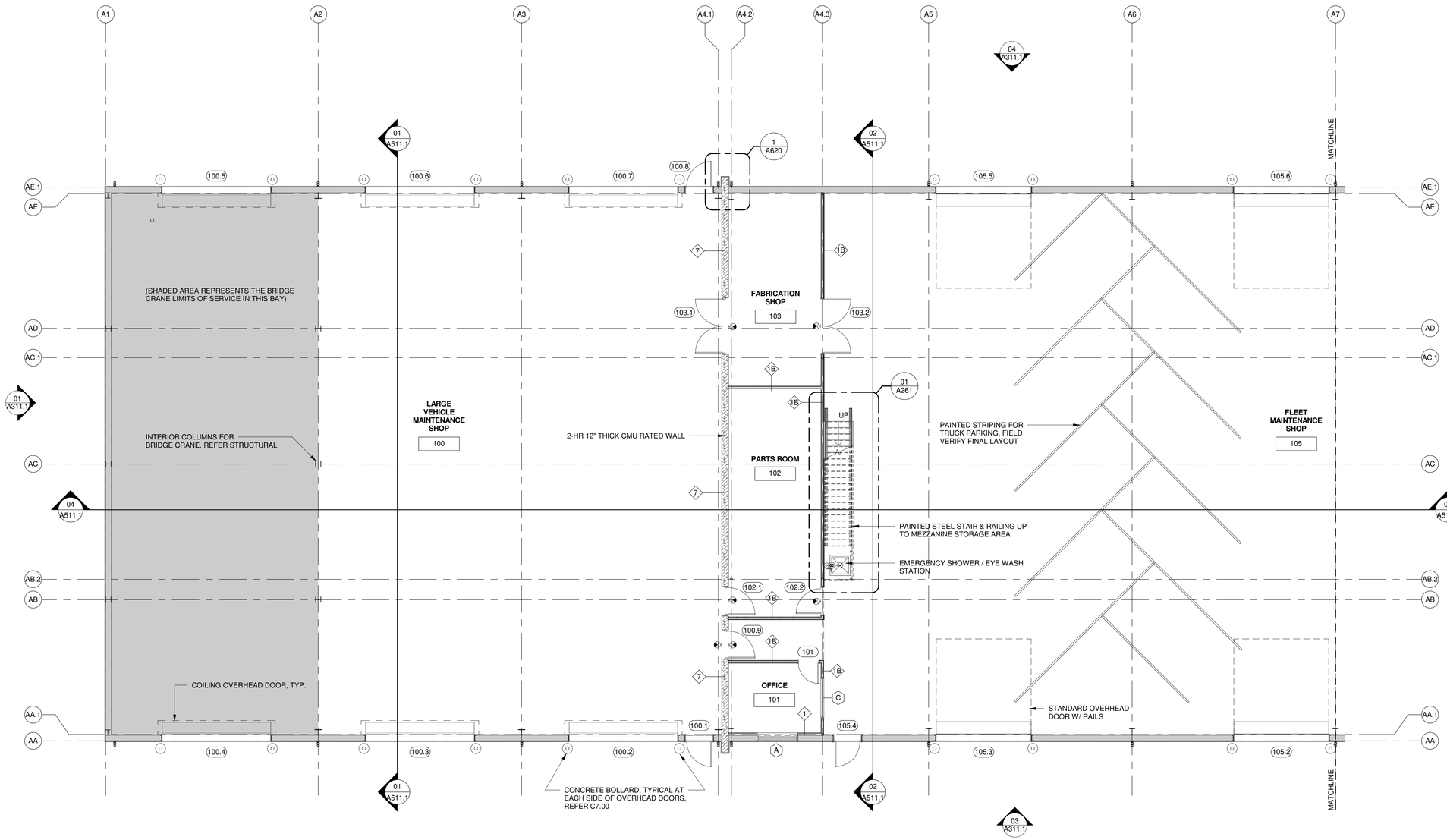
KEY FLOOR PLAN



BUILDING A

BUILDING B

BUILDING C



NORTH

01 PHASE 1 - BUILDING A REFERENCE FLOOR PLAN

1/8" = 1'-0"

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Oklahoma 73102

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SHEET TITLE

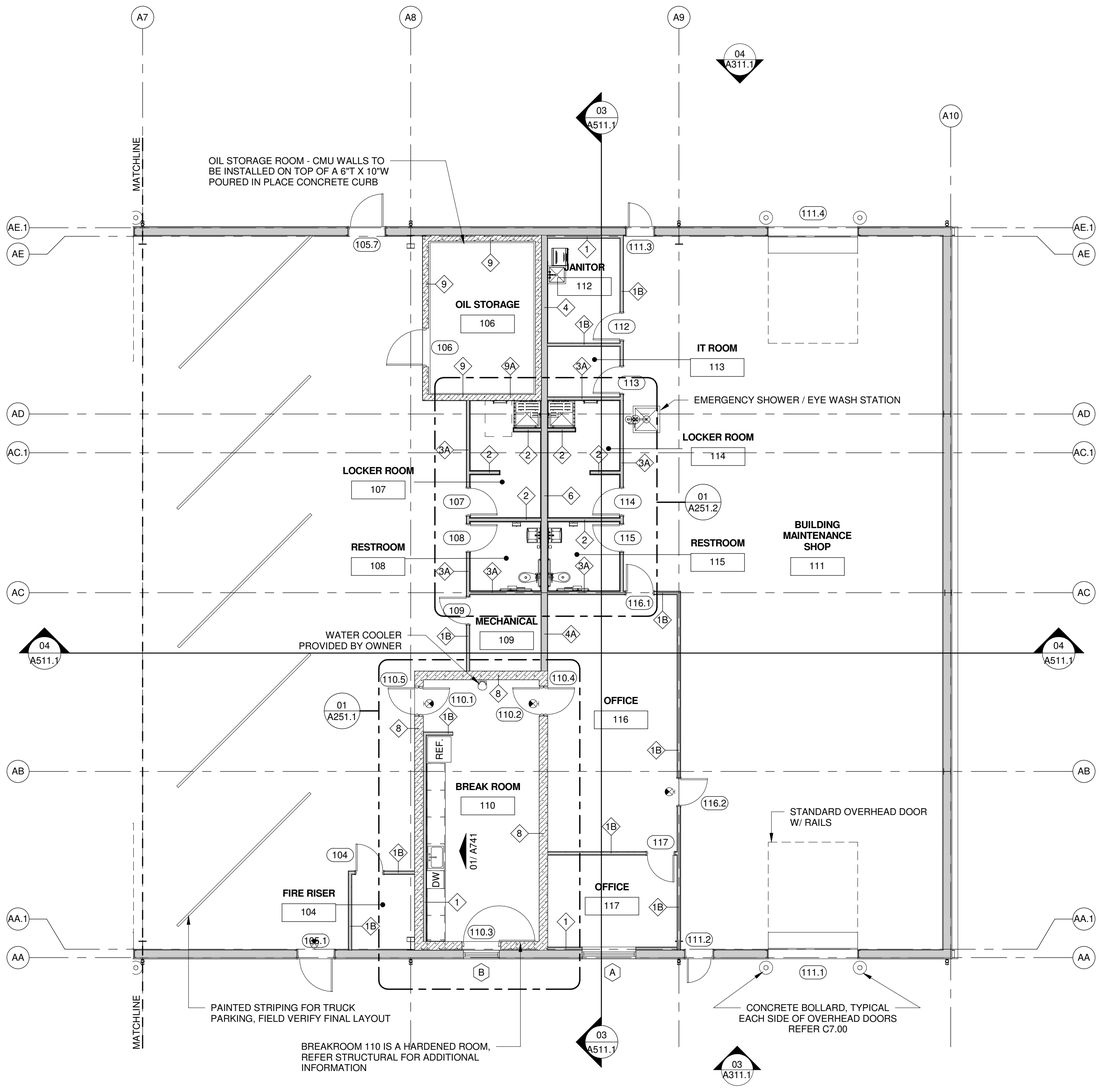
PHASE 1 BUILDING A REFERENCE FLOOR PLAN

SHEET NUMBER

A221.1

PROJECT NUMBER

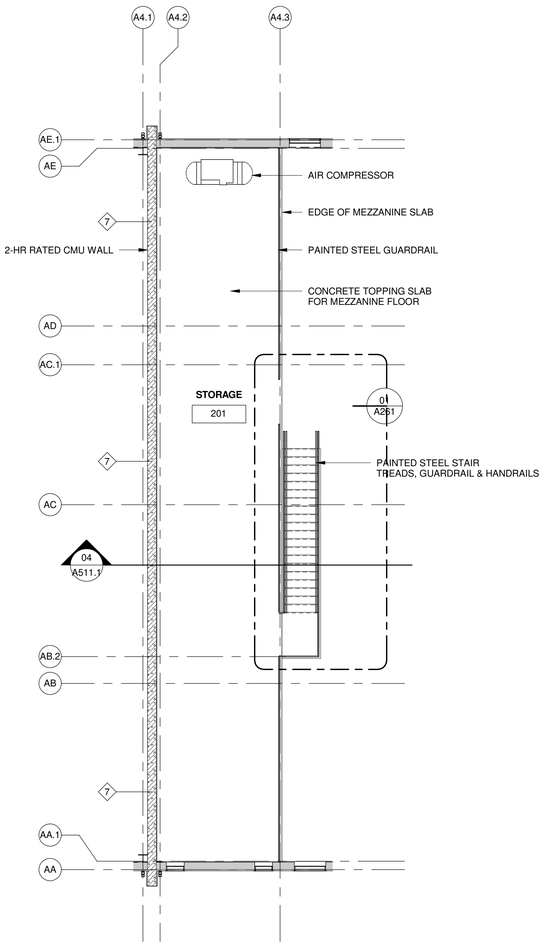
1707.3



NORTH

01 PHASE 1 - BUILDING A REFERENCE FLOOR PLAN

1/8" = 1'-0"

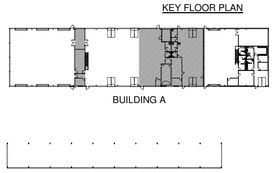


NORTH

02 PHASE 1 - MEZZANINE REFERENCE FLOOR PLAN

1/8" = 1'-0"

KEY FLOOR PLAN



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SHEET TITLE

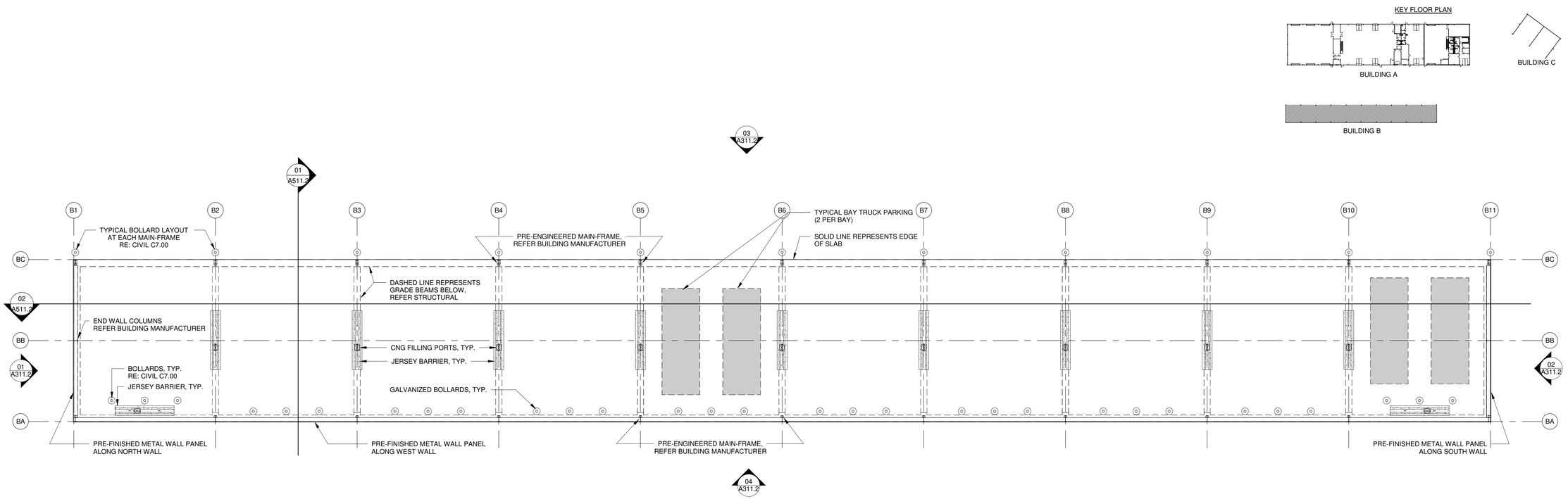
PHASE 1 BUILDING A REFERENCE FLOOR PLAN

SHEET NUMBER

A221.2

PROJECT NUMBER

1707.3



NORTH

01 PHASE 1 - BUILDING B REFERENCE FLOOR PLAN

3/32" = 1'-0"

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SHEET TITLE

PHASE 1 BUILDING B REFERENCE PLAN

SHEET NUMBER

A221.3

PROJECT NUMBER

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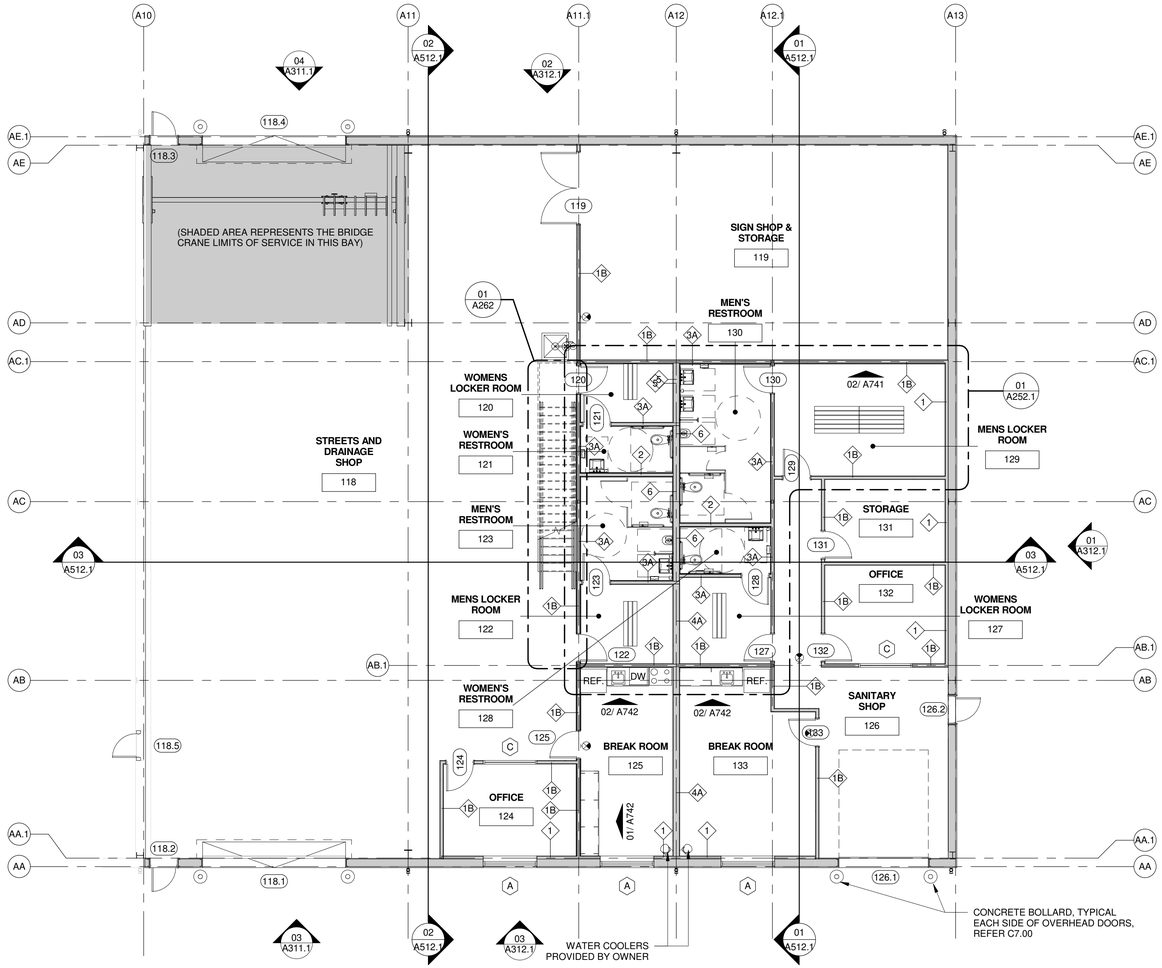
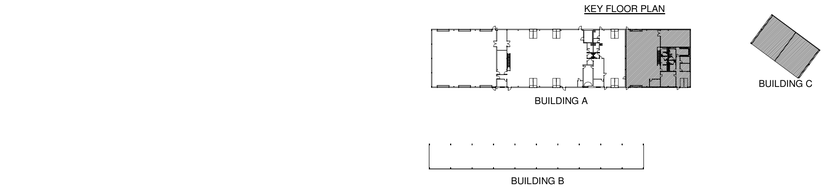
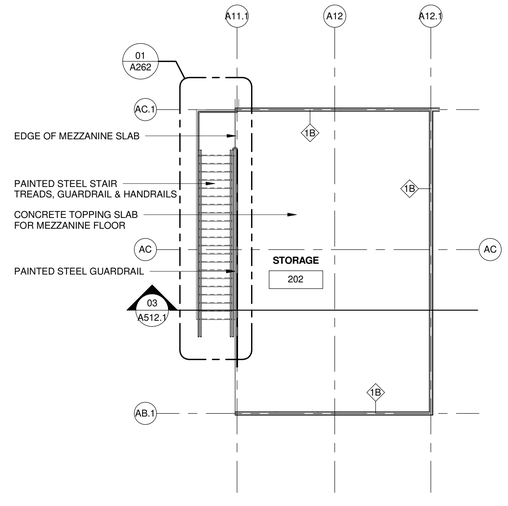


NORTH

01 PHASE 2 - BUILDING A REFERENCE FLOOR PLAN

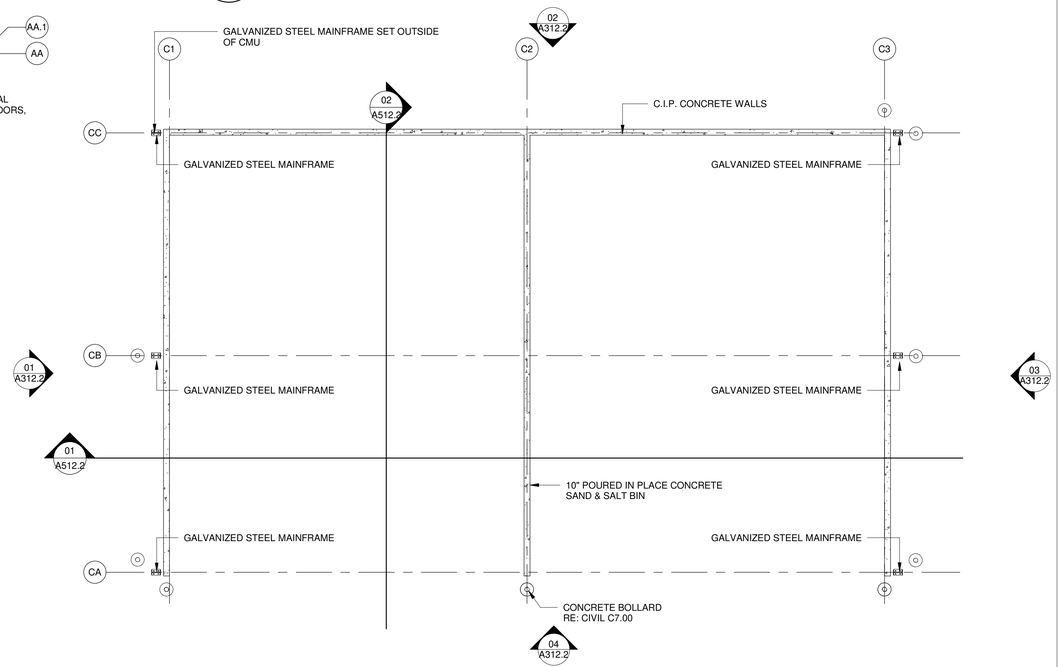
1/8" = 1'-0"





3 PHASE 2 - MEZZANINE REFERENCE FLOOR PLAN

1/8" = 1'-0"



NORTH

02 PHASE 2 - BUILDING C REFERENCE FLOOR PLAN

1/8" = 1'-0"

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SHEET TITLE

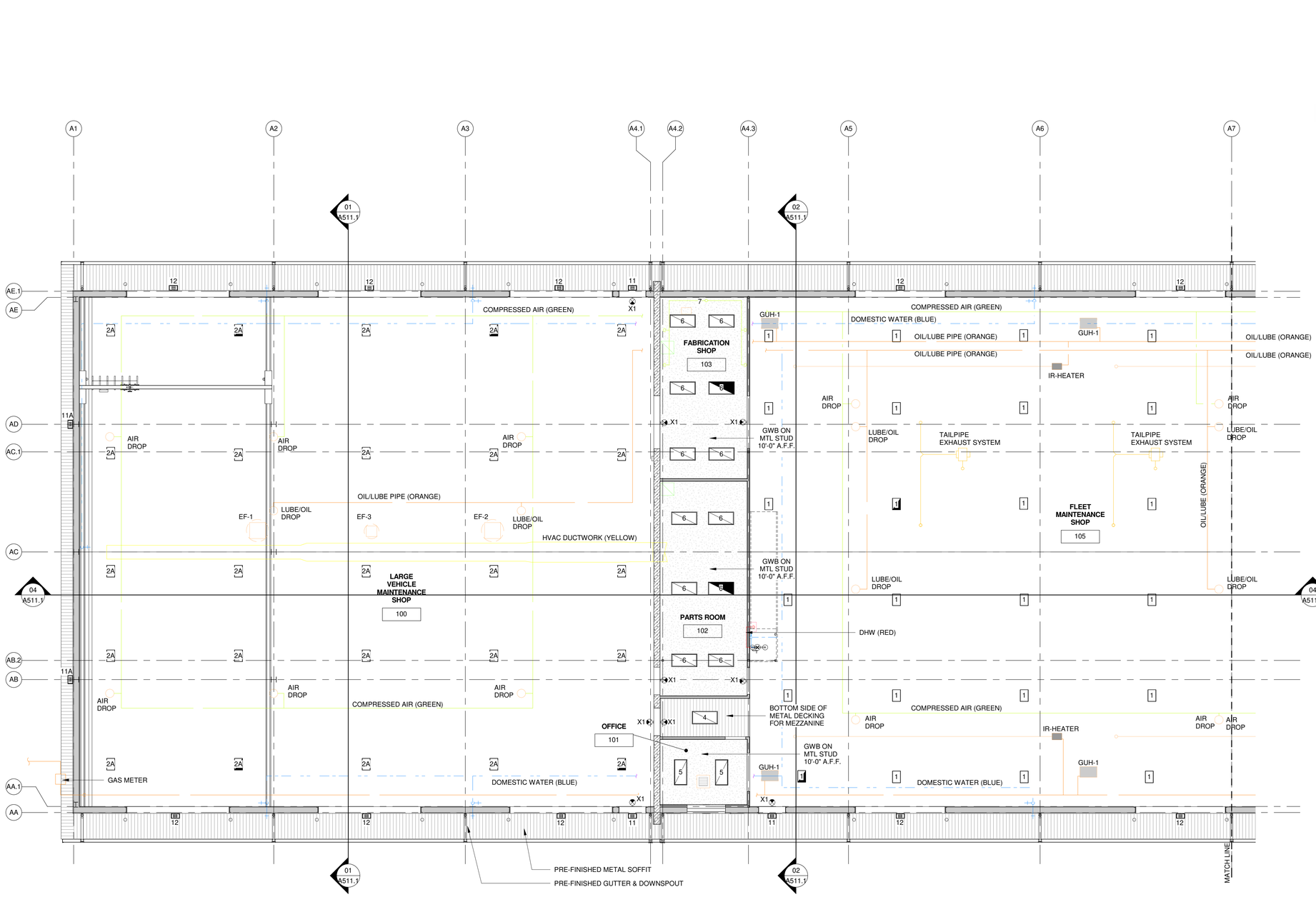
PHASE 2 BUILDINGS A AND C REFERENCE FLOOR PLANS

SHEET NUMBER

A222

PROJECT NUMBER

1707.3

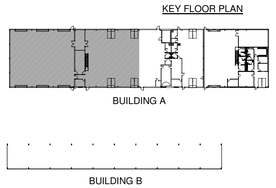


NORTH

01 PHASE 1 - REFELECTED CEILING PLAN

1/8" = 1'-0"

KEY FLOOR PLAN



LEGEND

REFLECTED CEILING PLAN	
1	TYPE 1: 2' LED HIGH BAY
2	TYPE 2: 2' LED HIGH BAY
2A	TYPE 2A: 2' LED HIGH BAY
3	TYPE 3: 2X4 LED FLAT PANEL
4	TYPE 4: 2X4 LED FLAT PANEL
5	TYPE 5: 2X4 LED FLAT PANEL
6	TYPE 6: 2X4 LED FLAT PANEL
7	TYPE 7: 4' HAZARDOUS LOCATION LED
8	TYPE 8: 2' LED VANITY LIGHT
9	TYPE 9: 4' LED STRIP
9A	TYPE 9A: 4' LED STRIP
	TYPE 10: NOT USED
11	TYPE 11: LED WALL PACK
11A	TYPE 11A: LED WALL PACK
12	TYPE 12: LED WALL PACK
	EXPOSED CONCRETE LID
	GYP. BOARD CEILING
	EXPOSED STRUCTURE
CP-01	TECTUM CEILING PANEL 24X48
	AIR SUPPLY, RE: MECHANICAL
	AIR SUPPLY, RE: MECHANICAL
	AIR RETURN, RE: MECHANICAL
	GAS UNIT HEATER, RE: MECHANICAL
	INFRARED HEATER, RE: MECHANICAL
X1	TYPE X1: EXIT LIGHT (WALL MOUNT)

RE: ELECTRICAL FOR DETAILED LIGHTING FIXTURE SPECIFICATION

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SHEET TITLE

PHASE 1 BUILDING A REFLECTED CEILING PLAN

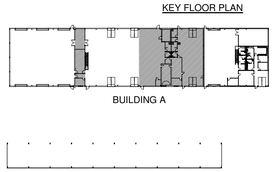
SHEET NUMBER

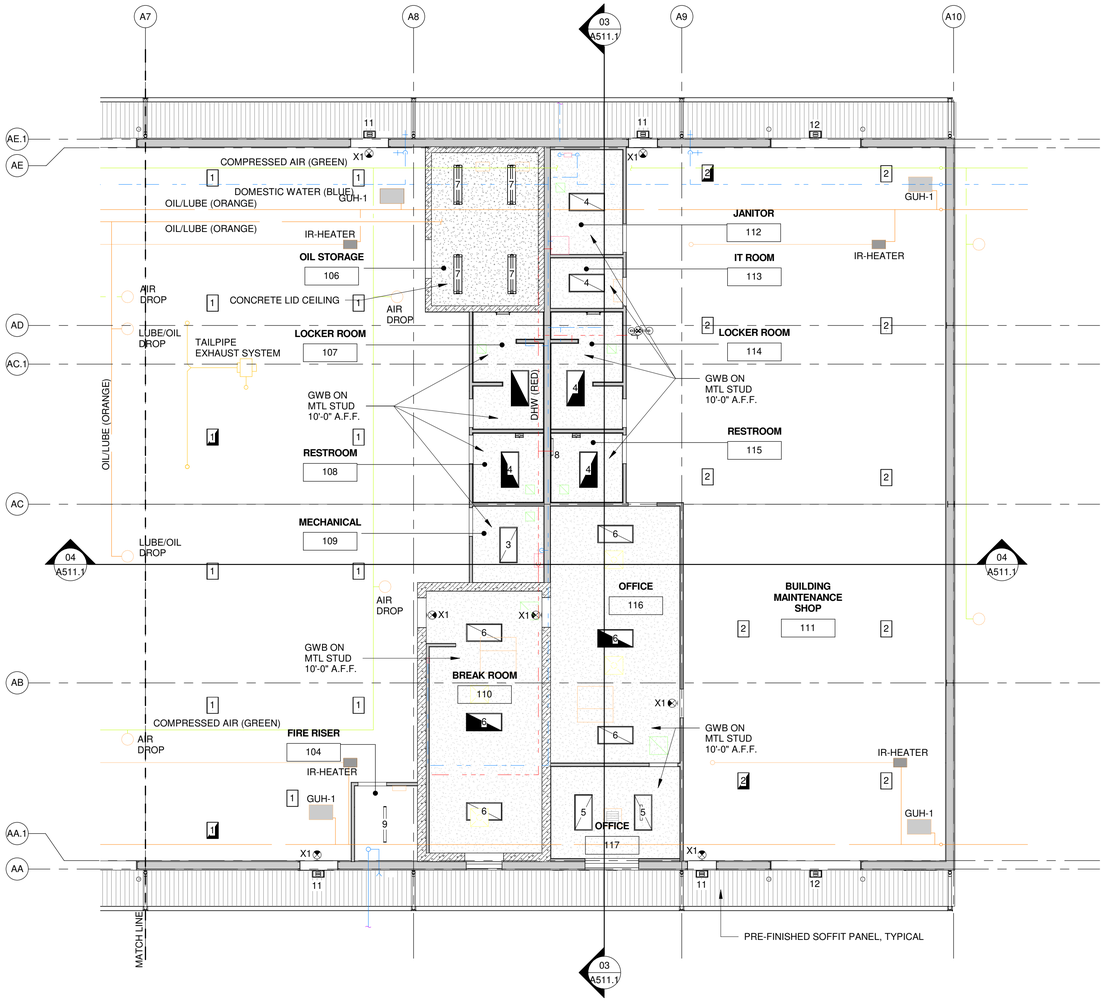
A231.1

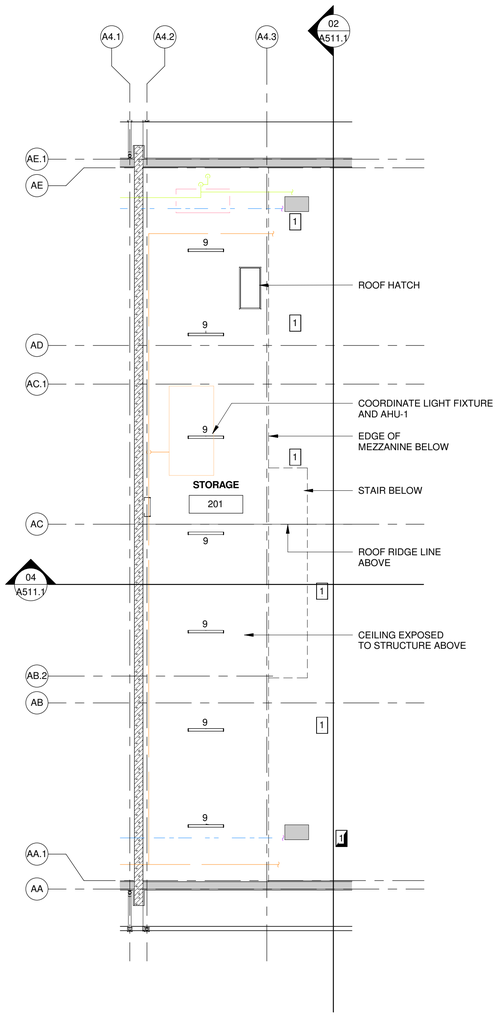
PROJECT NUMBER

1707.3

KEY FLOOR PLAN







NORTH

01 PHASE 1 - REFLECTED CEILING PLAN

1/8" = 1'-0"

NORTH

02 PHASE 1 - MEZZANINE REFLECTED CEILING PLAN

1/8" = 1'-0"

LEGEND

REFLECTED CEILING PLAN	
1	TYPE 1: 2' LED HIGH BAY
2	TYPE 2: 2' LED HIGH BAY
2A	TYPE 2A: 2' LED HIGH BAY
3	TYPE 3: 2X4 LED FLAT PANEL
4	TYPE 4: 2X4 LED FLAT PANEL
5	TYPE 5: 2X4 LED FLAT PANEL
6	TYPE 6: 2X4 LED FLAT PANEL
7	TYPE 7: 4' HAZARDOUS LOCATION LED
8	TYPE 8: 2' LED VANITY LIGHT
9	TYPE 9: 4' LED STRIP
9A	TYPE 9A: 4' LED STRIP
	TYPE 10: NOT USED
11	TYPE 11: LED WALL PACK
11A	TYPE 11A: LED WALL PACK
12	TYPE 12: LED WALL PACK
	EXPOSED CONCRETE LID
	GYP. BOARD CEILING
	EXPOSED STRUCTURE
CP-01	TECTUM CEILING PANEL 24X48
	AIR SUPPLY, RE: MECHANICAL
	AIR SUPPLY, RE: MECHANICAL
	AIR RETURN, RE: MECHANICAL
	GAS UNIT HEATER, RE: MECHANICAL
	INFRARED HEATER, RE: MECHANICAL
X1	TYPE X1: EXIT LIGHT (WALL MOUNT)
RE: ELECTRICAL FOR DETAILED LIGHTING FIXTURE SPECIFICATION	

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PHASE 1 BUILDING A REFLECTED CEILING PLAN

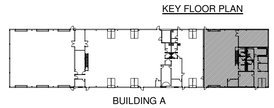
SHEET NUMBER

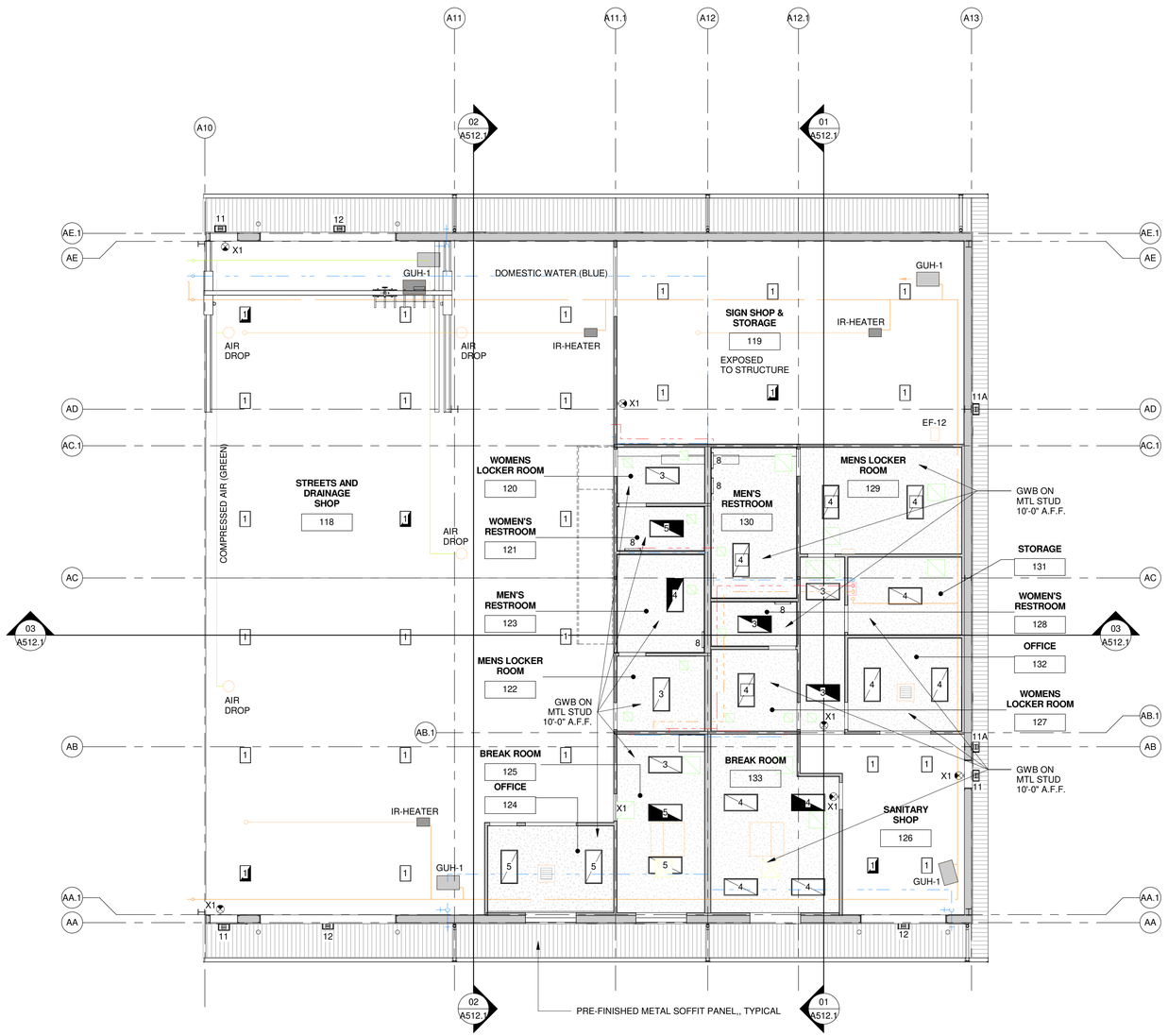
A231.2

PROJECT NUMBER

1707.3

KEY FLOOR PLAN





NORTH

01 PHASE 2 - FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

LEGEND

REFLECTED CEILING PLAN	
1	TYPE 1: 2' LED HIGH BAY
2	TYPE 2: 2' LED HIGH BAY
2A	TYPE 2A: 2' LED HIGH BAY
3	TYPE 3: 2X4 LED FLAT PANEL
4	TYPE 4: 2X4 LED FLAT PANEL
5	TYPE 5: 2X4 LED FLAT PANEL
6	TYPE 6: 2X4 LED FLAT PANEL
7	TYPE 7: 4' HAZARDOUS LOCATION LED
8	TYPE 8: 2' LED VANITY LIGHT
9	TYPE 9: 4' LED STRIP
9A	TYPE 9A: 4' LED STRIP
	TYPE 10: NOT USED
11	TYPE 11: LED WALL PACK
11A	TYPE 11A: LED WALL PACK
12	TYPE 12: LED WALL PACK
	EXPOSED CONCRETE LID
	GYP. BOARD CEILING
	EXPOSED STRUCTURE
CP-01	TECTUM CEILING PANEL 24X48
	AIR SUPPLY, RE: MECHANICAL
	AIR SUPPLY, RE: MECHANICAL
	AIR RETURN, RE: MECHANICAL
	GAS UNIT HEATER, RE: MECHANICAL
	INFRARED HEATER, RE: MECHANICAL
X1	TYPE X1: EXIT LIGHT (WALL MOUNT)
RE: ELECTRICAL FOR DETAILED LIGHTING FIXTURE SPECIFICATION	

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SHEET TITLE

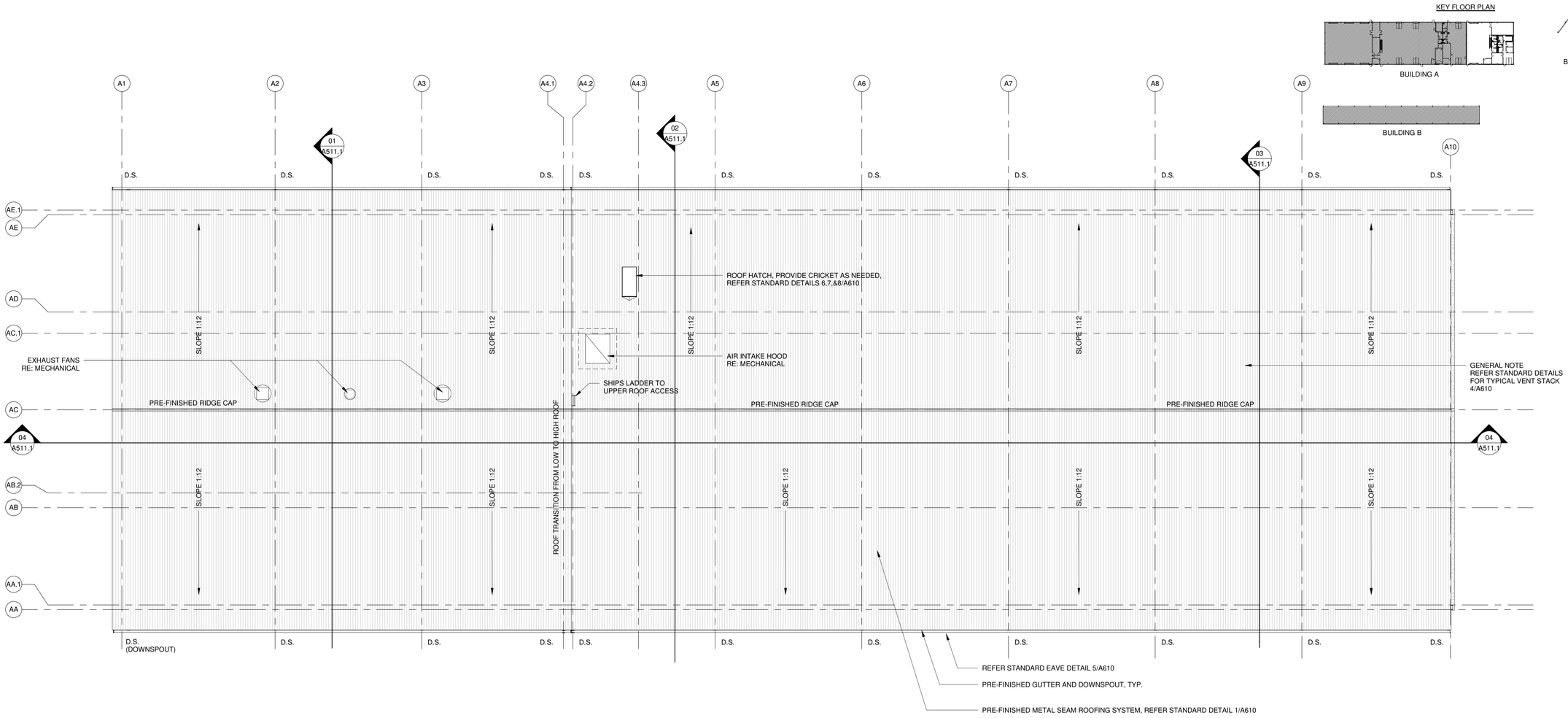
PHASE 2 BUILDING A REFLECTED CEILING PLAN

SHEET NUMBER

A232

PROJECT NUMBER

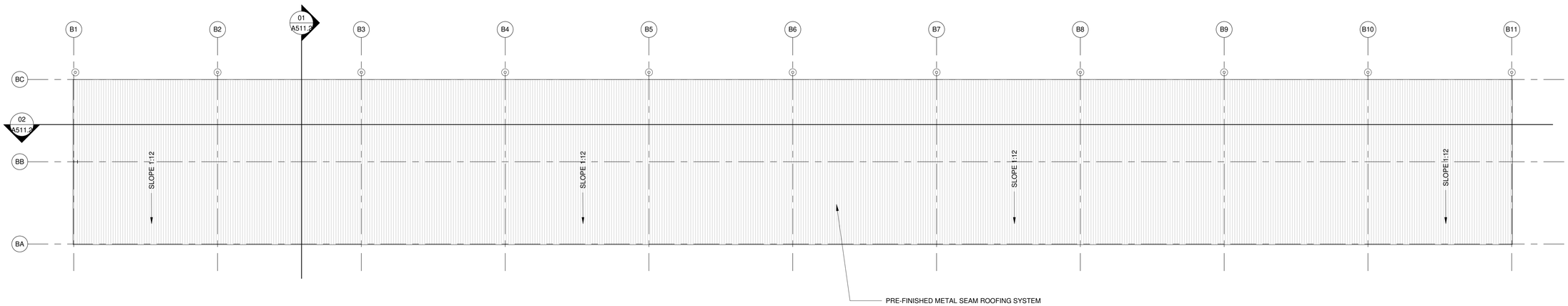
1707.3



NORTH

01 PHASE 1 - BUILDING A ROOF PLAN

3/32" = 1'-0"



NORTH

02 PHASE 1 - BUILDING B ROOF PLAN

3/32" = 1'-0"

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SHEET TITLE

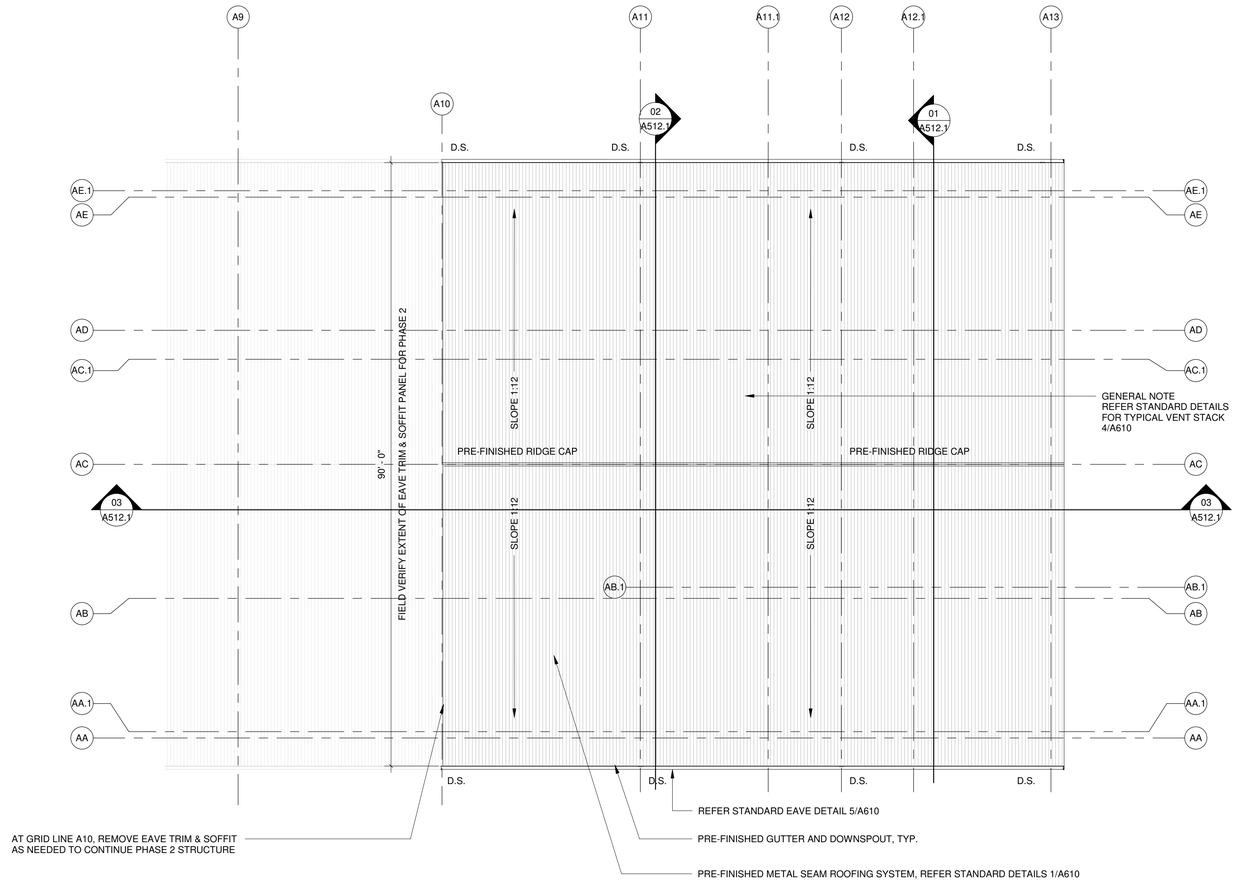
PHASE 1 BUILDING A & B ROOF PLAN

SHEET NUMBER

A241

PROJECT NUMBER

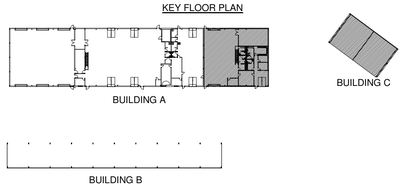
1707.3

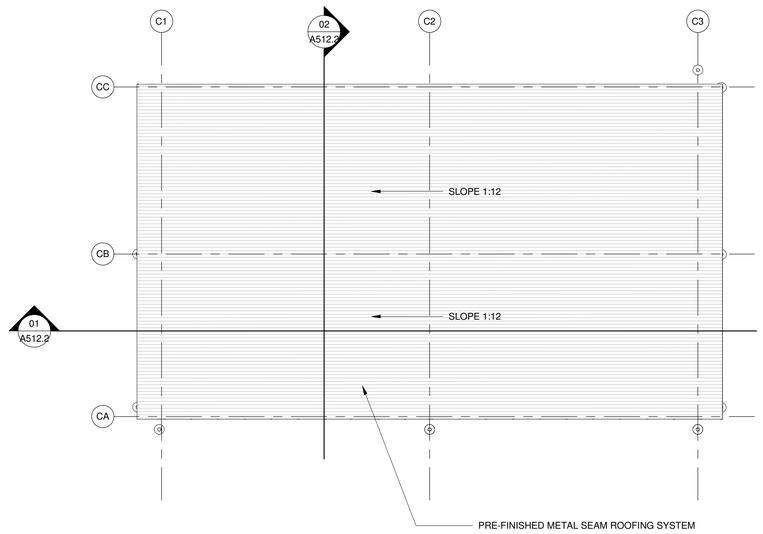


NORTH

01 PHASE 2 - BUILDING A ROOF PLAN

3/32" = 1'-0"





NORTH

02 PHASE 2 - BUILDING C ROOF PLAN

3/32" = 1'-0"

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SHEET TITLE

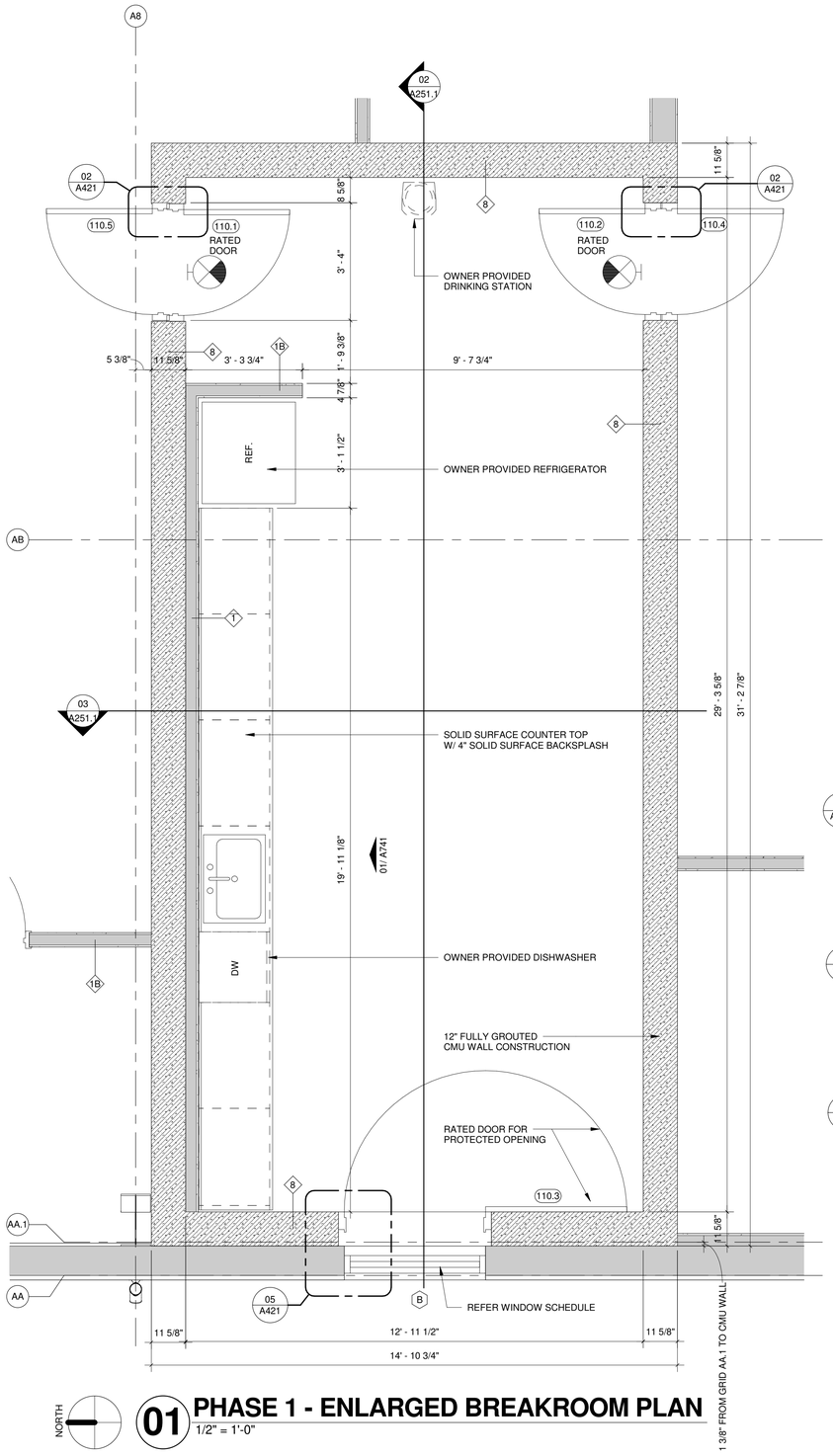
PHASE 2 BUILDING A & C ROOF PLAN

SHEET NUMBER

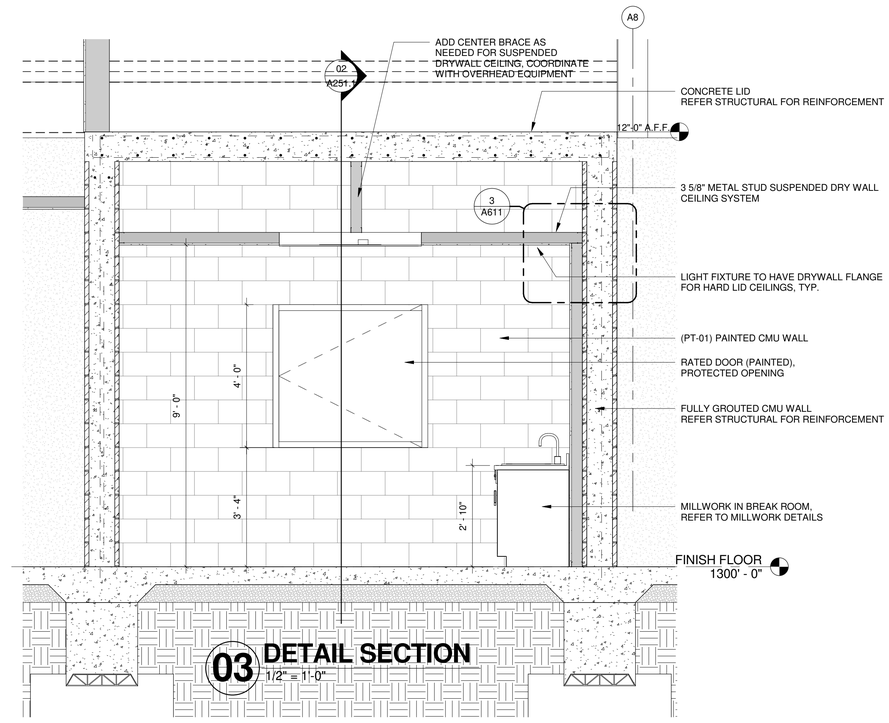
A242

PROJECT NUMBER

1707.3

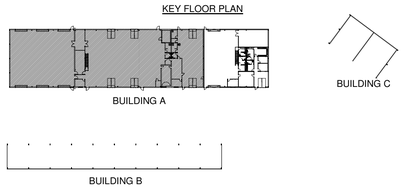


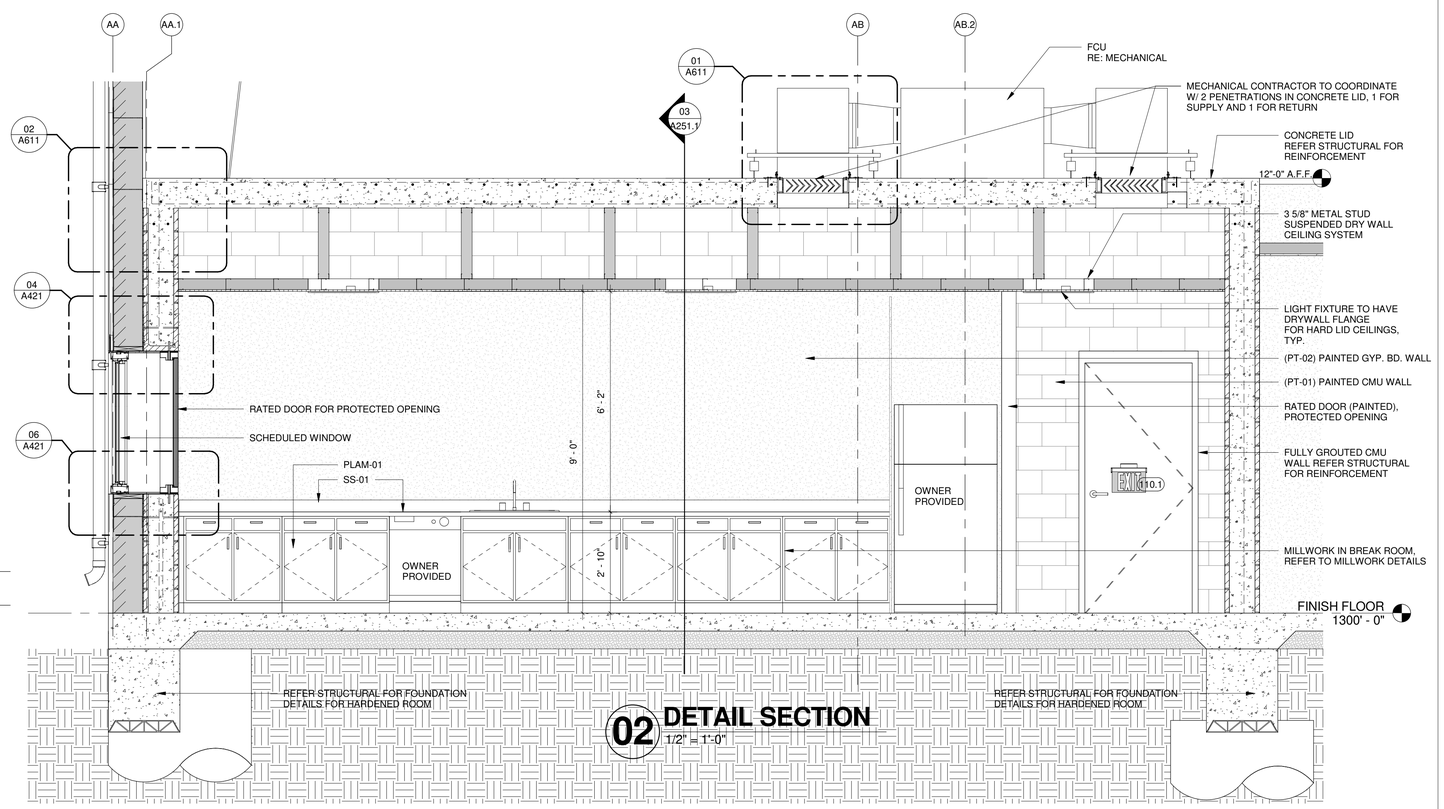
01 PHASE 1 - ENLARGED BREAKROOM PLAN
1/2" = 1'-0"



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

KEY FLOOR PLAN





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

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SHEET TITLE

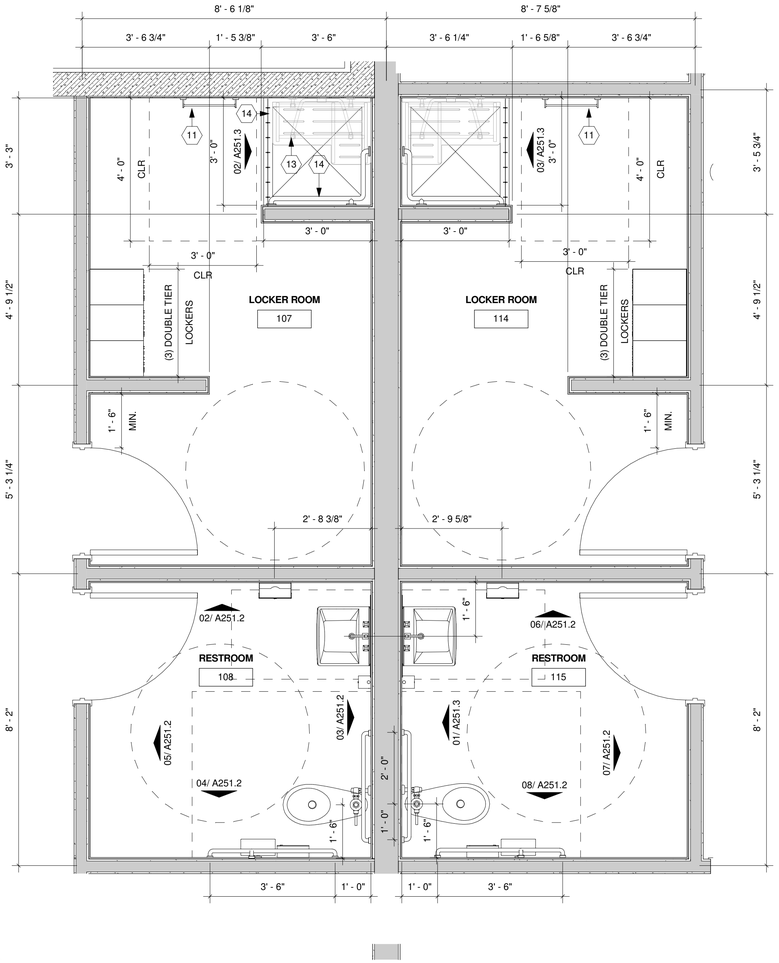
PHASE 1 ENLARGED BREAK ROOM

SHEET NUMBER

A251.1

PROJECT NUMBER

1707.3



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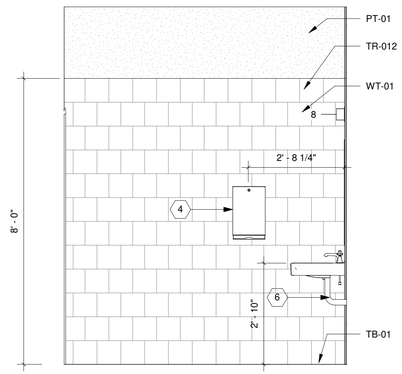
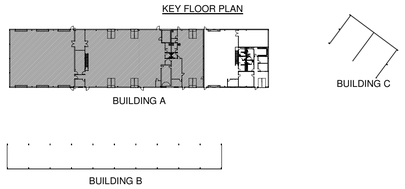
01 PHASE 1 - ENLARGED RESTROOM PLAN
1/2" = 1'-0"

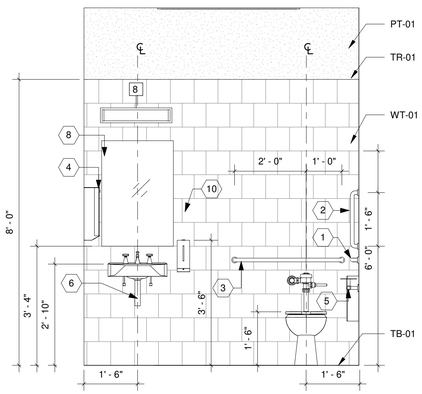


02 RESTROOM ELEVATION
1/2" = 1'-0"

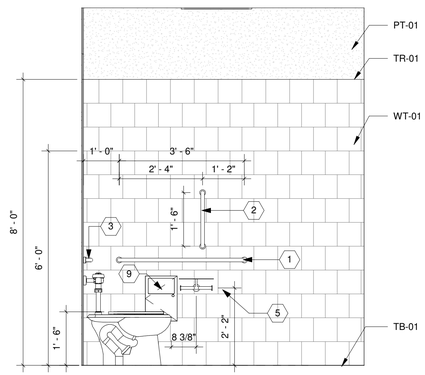


ACCESSORY LEGEND

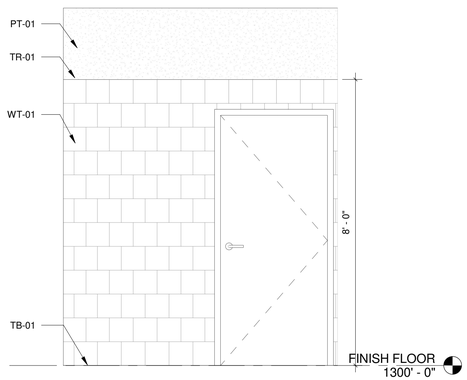
1. 42" STAINLESS STEEL GRAB BAR
2. 18" VERTICAL STAINLESS STEEL GRAB BAR
3. 36" STAINLESS STEEL GRAB BAR
4. PAPER TOWEL DISPENSER
5. TOILET PAPER DISPENSER
6. PIPE INSULATION
7. TOILET PARTITIONS
8. 24X36 VANITY MIRROR
9. SANITARY NAPKIN DISPOSAL
10. SOAP DISPENSER
11. TOWEL BAR
12. SHOWER ROD/CURTAIN/ CURTAIN HOOKS
13. ADA SHOWER SEAT
14. HORIZONTAL TWO WALL SHOWER GRAB BAR



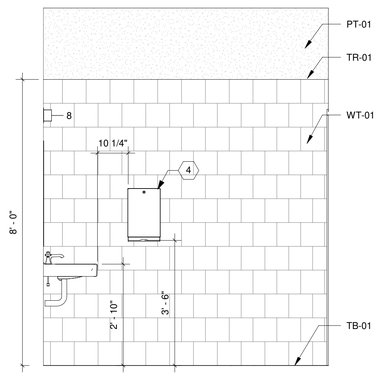
03 RESTROOM ELEVATION
1/2" = 1'-0"



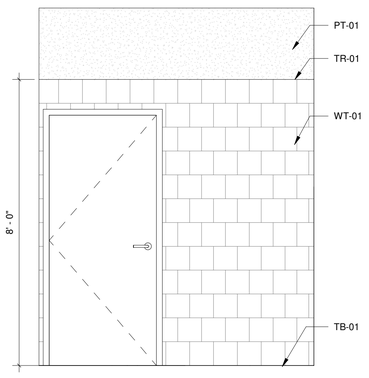
04 RESTROOM ELEVATION
1/2" = 1'-0"



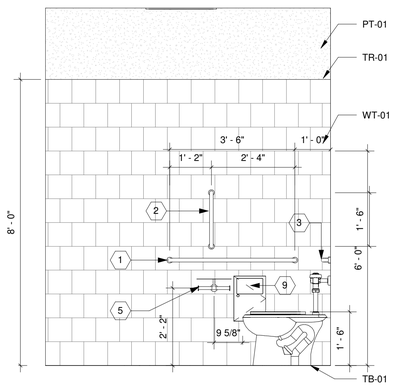
05 RESTROOM ELEVATION
1/2" = 1'-0"



06 RESTROOM ELEVATION
1/2" = 1'-0"



07 RESTROOM ELEVATION
1/2" = 1'-0"



08 RESTROOM ELEVATION
1/2" = 1'-0"

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ANTHONY DAVID MCDERMID
21676
LICENSED ARCHITECT

04.30.2021

PROJECT

MOORE PUBLIC WORKS

512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1890

ISSUES REVISIONS

04.30.2021

100% ISSUE FOR BID

SHEET TITLE

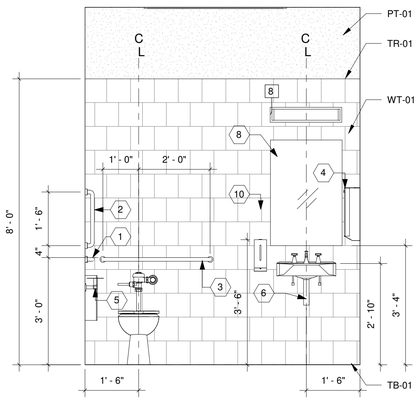
PHASE 1 ENLARGED RESTROOM PLANS

SHEET NUMBER

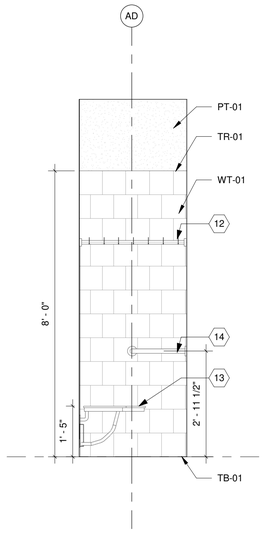
A251.2

PROJECT NUMBER

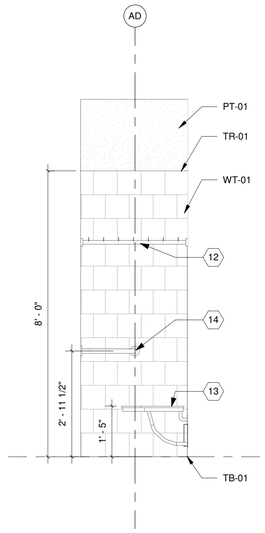
1707.3



01 RESTROOM ELEVATION
1/2" = 1'-0"

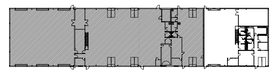


02 SHOWER ELEVATION
1/2" = 1'-0"



03 SHOWER ELEVATION
1/2" = 1'-0"

KEY FLOOR PLAN



ACCESSORY LEGEND

1. 42" STAINLESS STEEL GRAB BAR
2. 18" VERTICAL STAINLESS STEEL GRAB BAR
3. 36" STAINLESS STEEL GRAB BAR
4. PAPER TOWEL DISPENSER
5. TOILET PAPER DISPENSER
6. PIPE INSULATION
7. TOILET PARTITIONS
8. 24X36 VANITY MIRROR
9. SANITARY NAPKIN DISPOSAL
10. SOAP DISPENSER
11. TOWEL BAR
12. SHOWER ROD/CURTAIN/ CURTAIN HOOKS
13. ADA SHOWER SEAT
14. HORIZONTAL TWO WALL SHOWER GRAB BAR

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Oklahoma City
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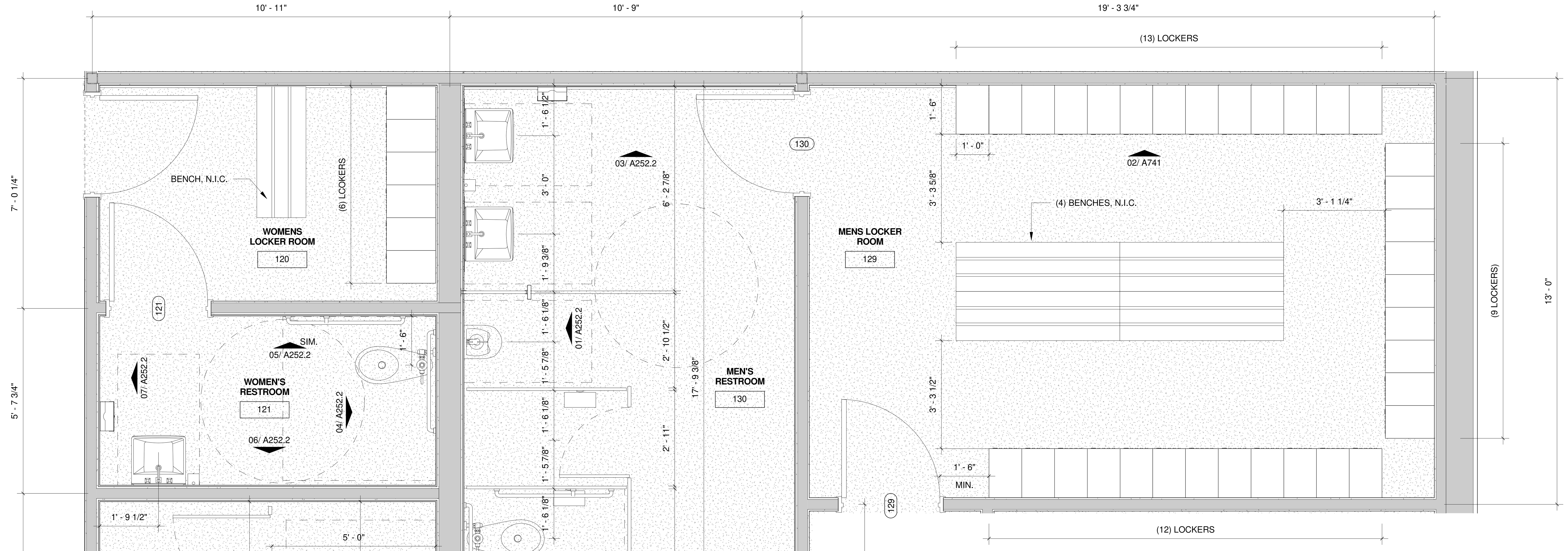
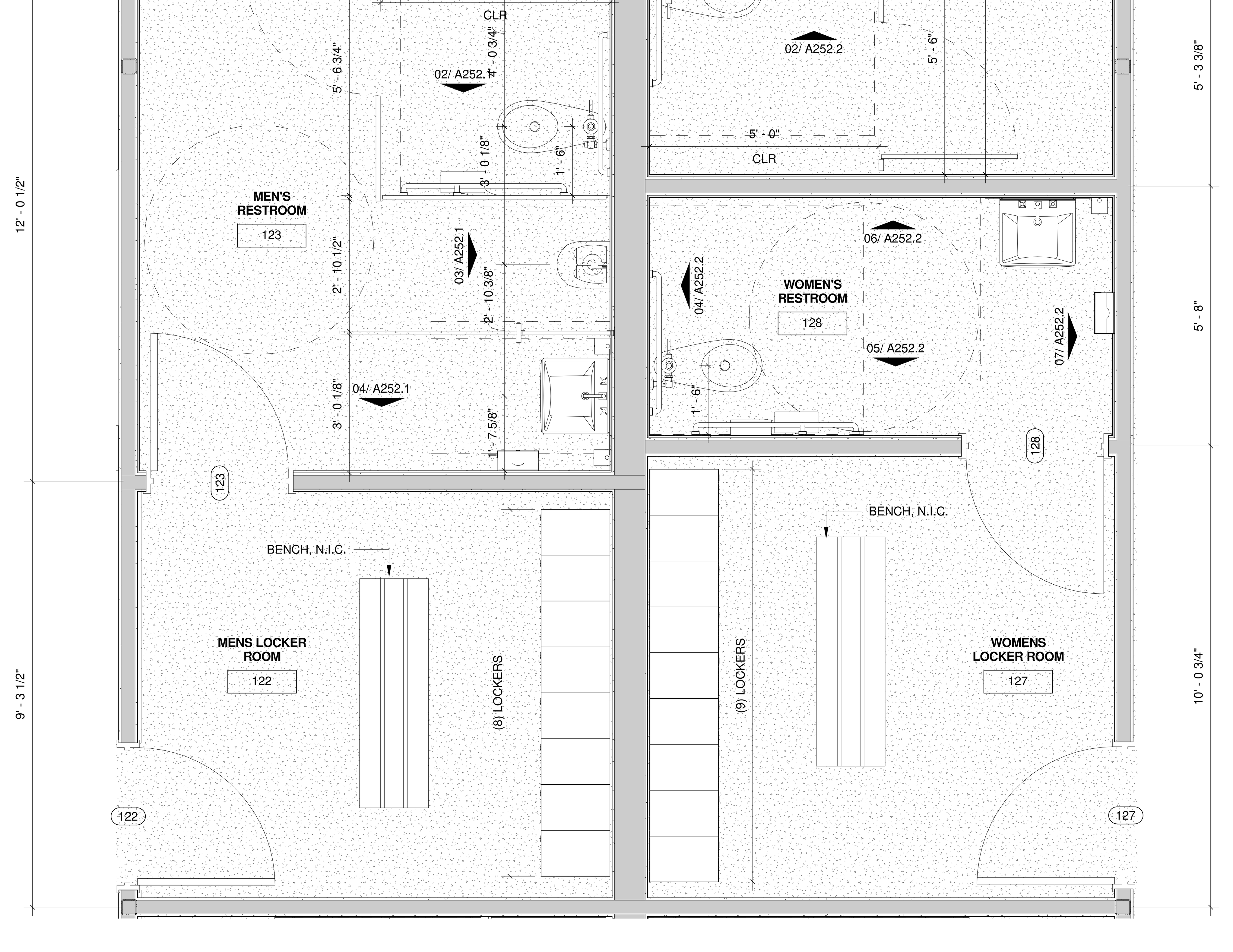
PHASE 1 ENLARGED RESTROOM PLANS

SHEET NUMBER

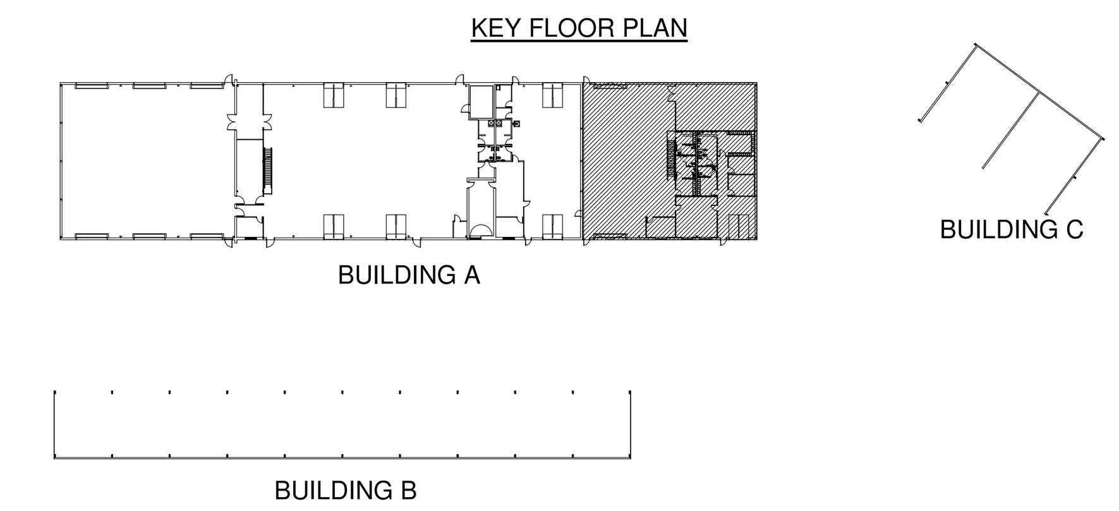
A251.3

PROJECT NUMBER

1707.3

01 **PHASE 2 - ENLARGED RESTROOM PLAN**
1/2" = 1'-0"



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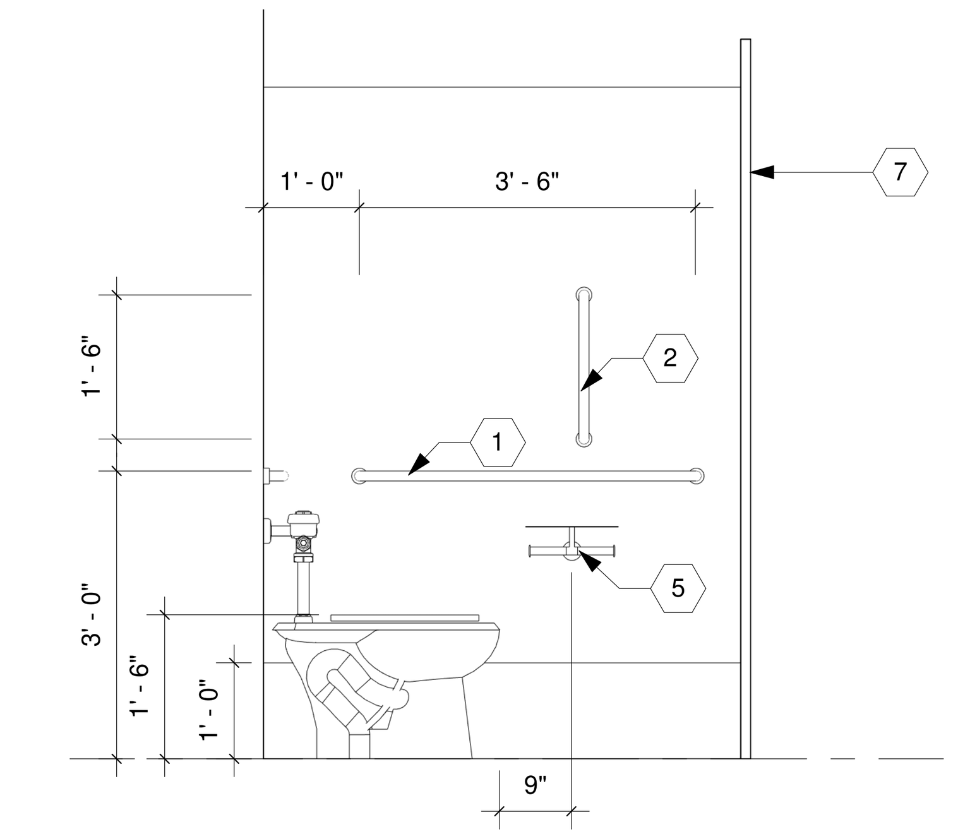
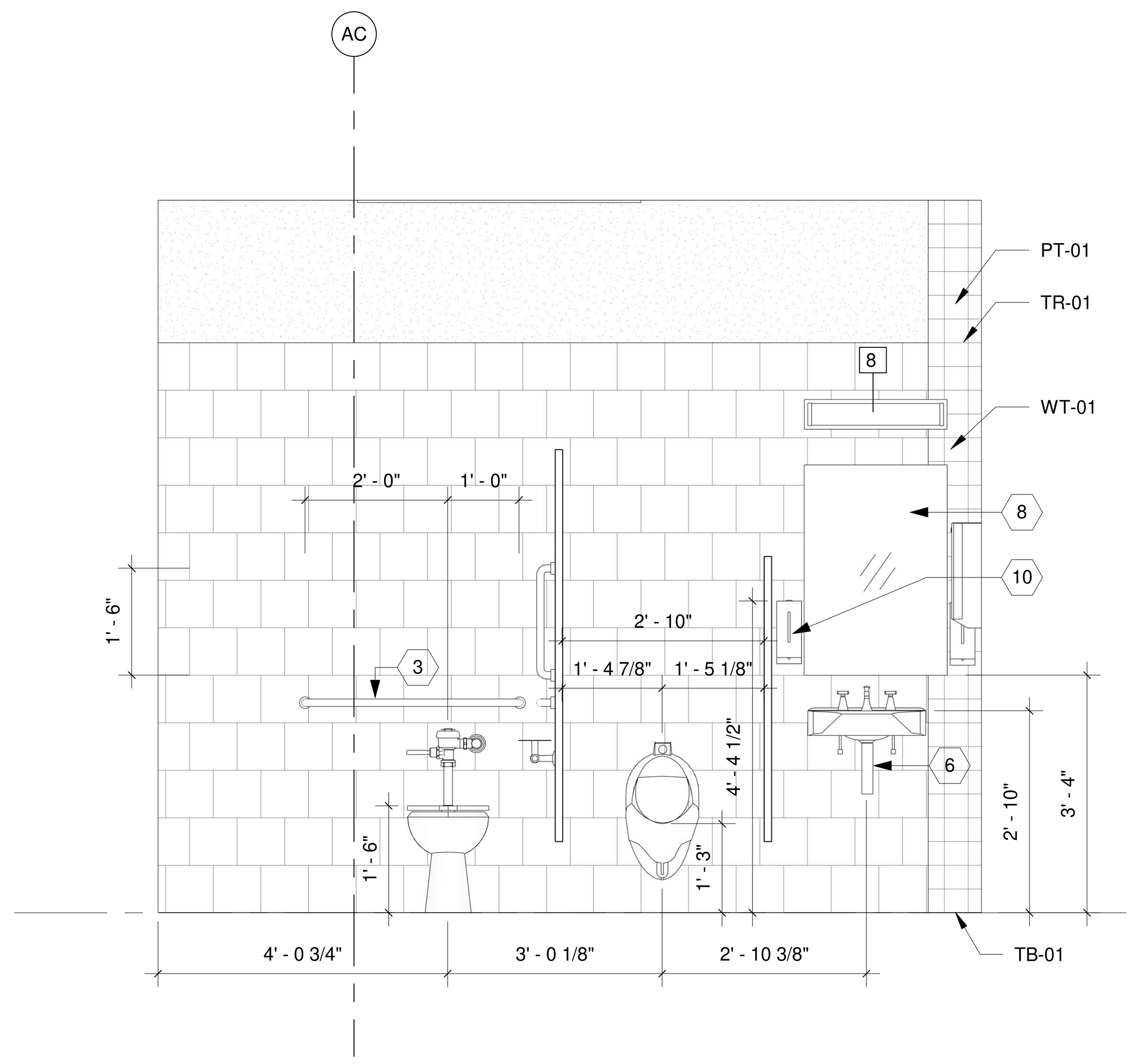
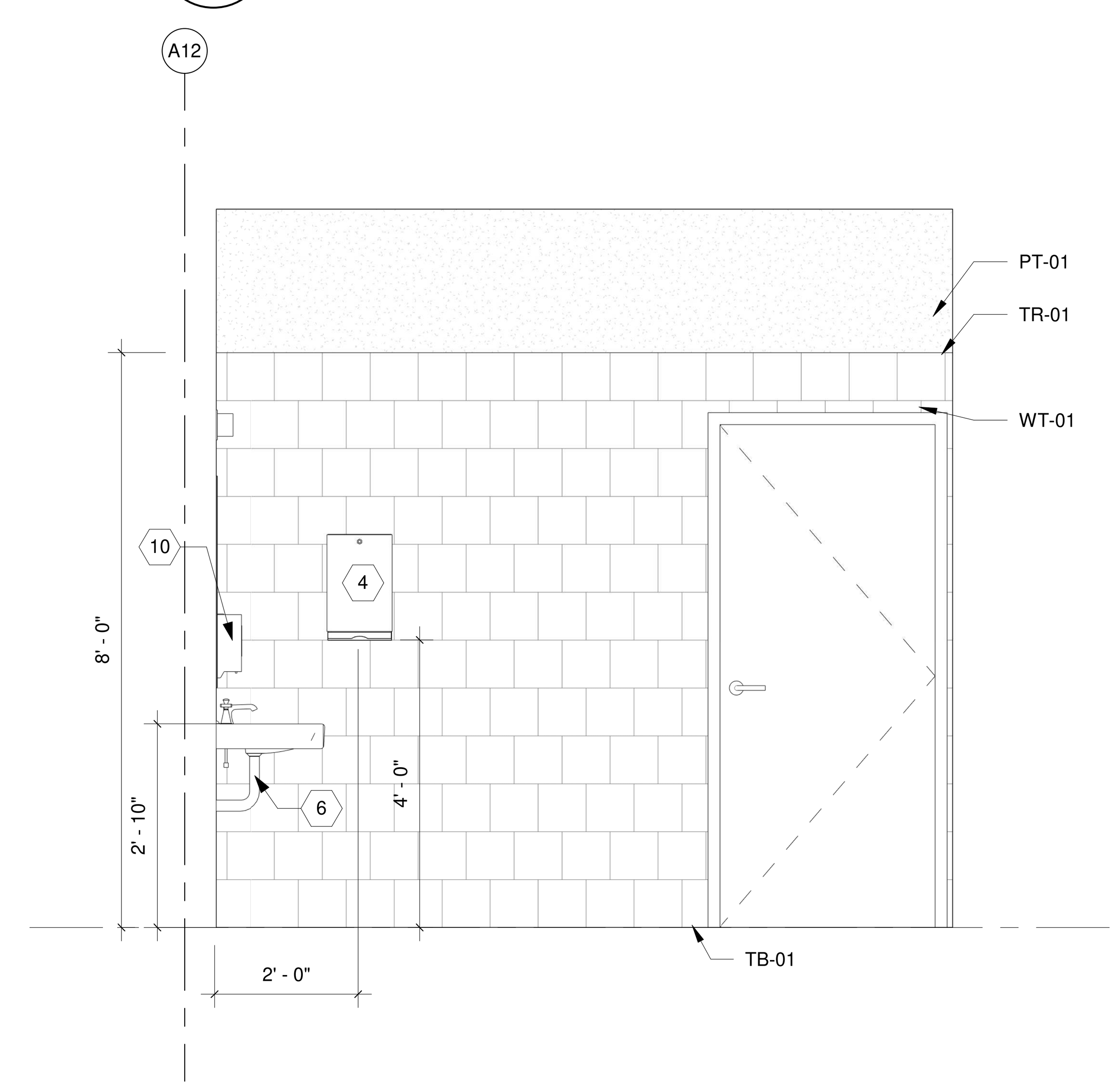


02 **RESTROOM ELEVATION**
1/2" = 1'-0"



03 **RESTROOM ELEVATION**
1/2" = 1'-0"



04 **RESTROOM ELEVATION**
1/2" = 1'-0"

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CITY of MOORE OKLAHOMA 1893

ISSUES
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04.30.2021
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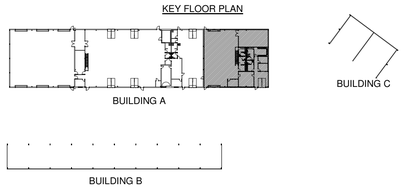
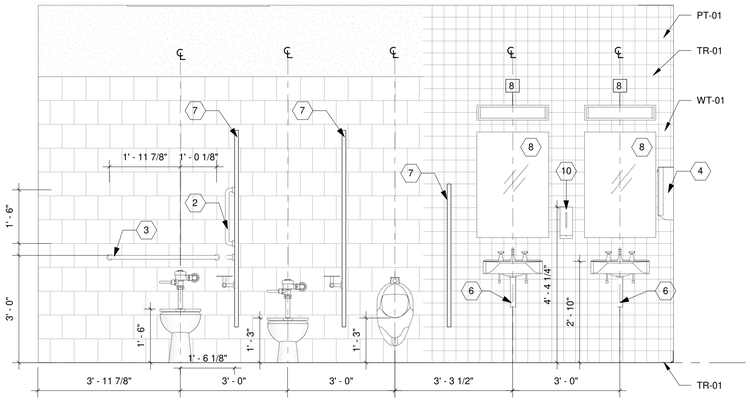
SHEET TITLE
PHASE 2 ENLARGED RESTROOM PLANS

SHEET NUMBER
A252.1

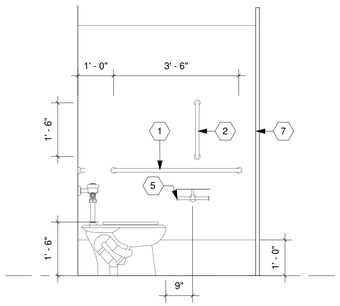
PROJECT NUMBER
1707.3

KEY FLOOR PLAN





01 RESTROOM ELEVATION
1/2" = 1'-0"



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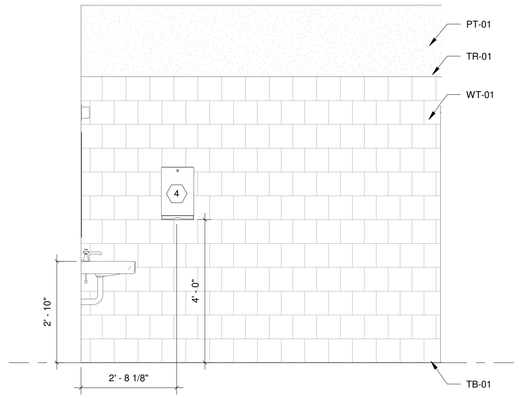
1/2" = 1'-0"



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1/2" = 1'-0"

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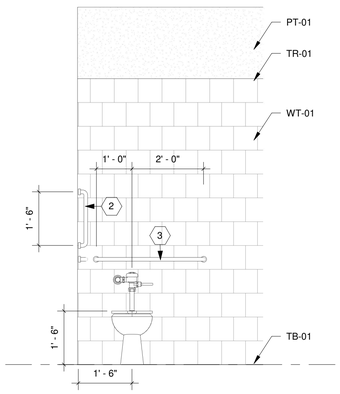
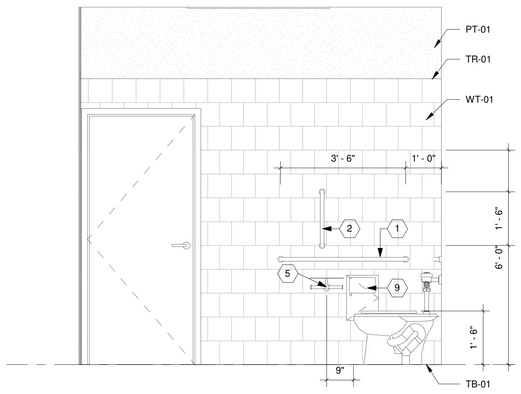
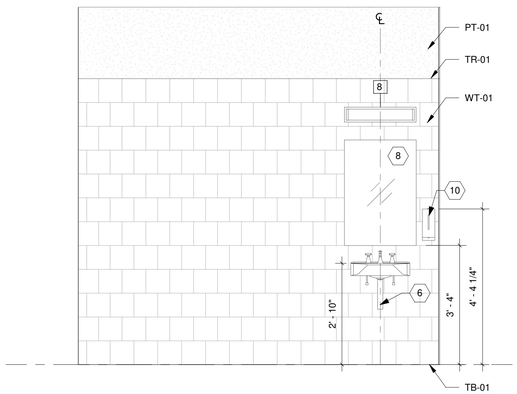


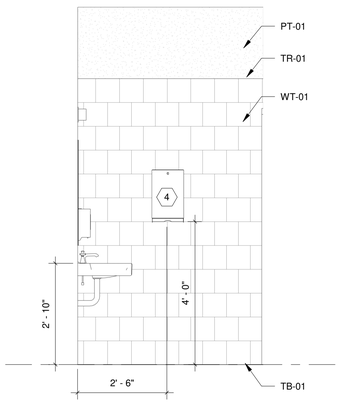
04 RESTROOM ELEVATION
1/2" = 1'-0"



05 RESTROOM ELEVATION
1/2" = 1'-0"



06 RESTROOM ELEVATION
1/2" = 1'-0"



07 RESTROOM ELEVATION
1/2" = 1'-0"

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SHEET TITLE

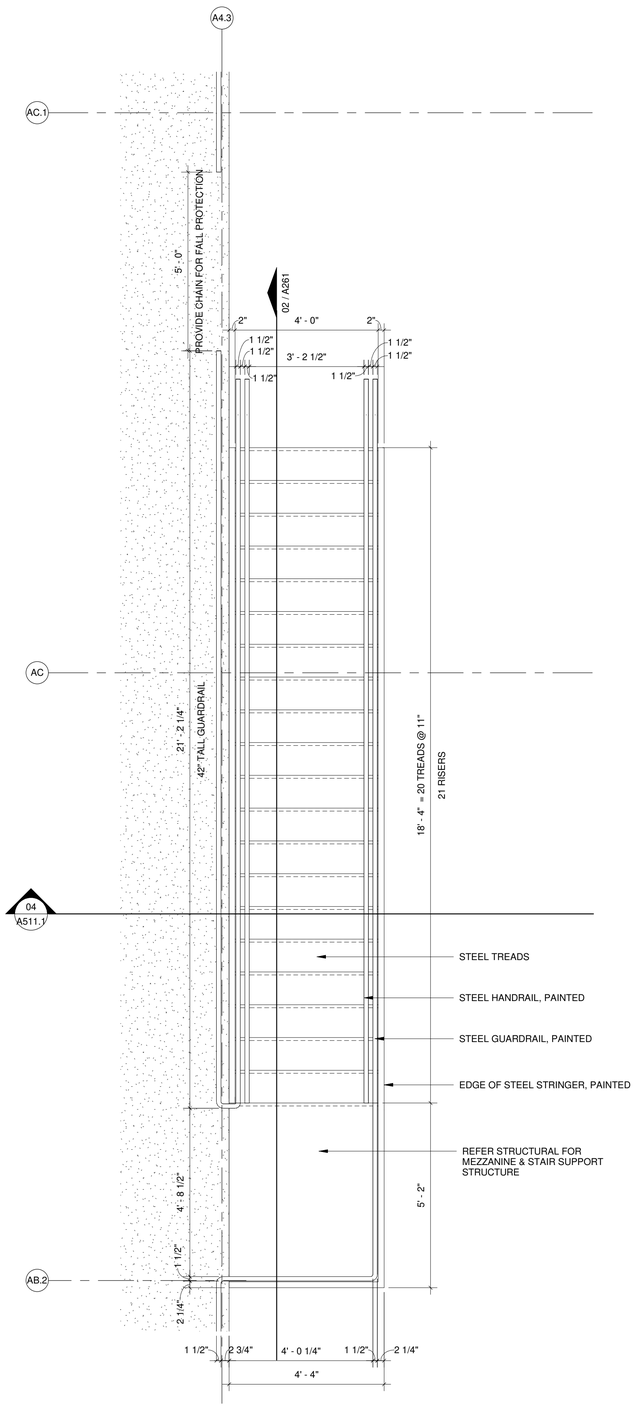
PHASE 2 ENLARGED RESTROOM PLANS

SHEET NUMBER

A252.2

PROJECT NUMBER

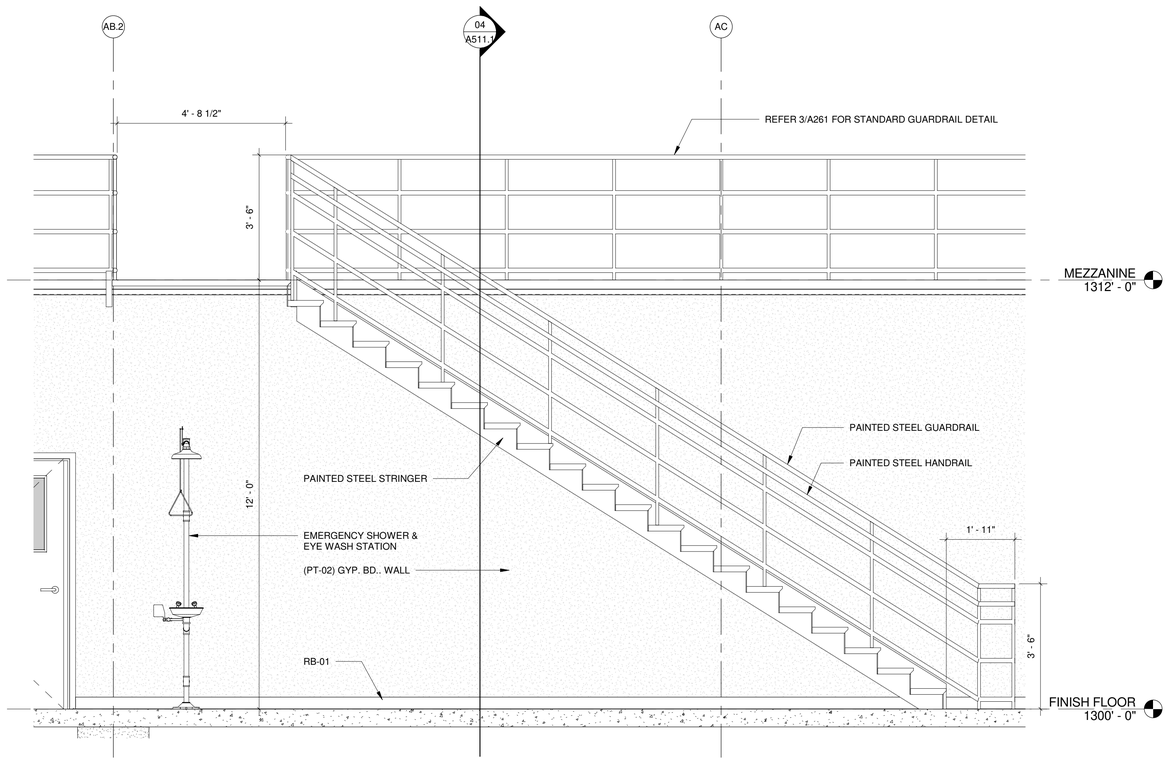
1707.3



NORTH

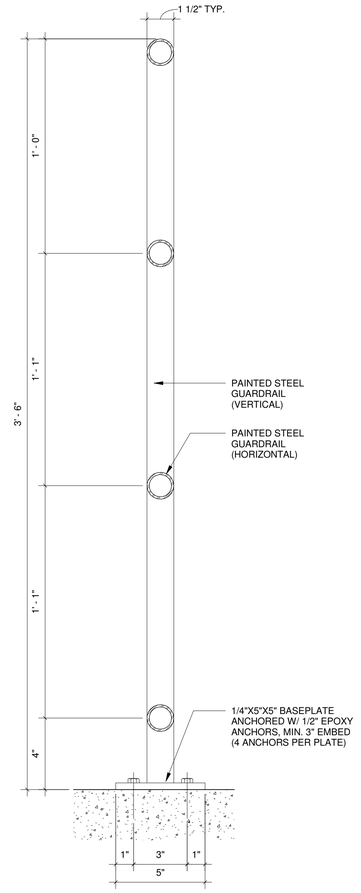
01 PHASE 1 - MEZZANINE STAIR PLAN

1/2" = 1'-0"



02 PHASE 1 - MEZZANINE STAIR SECTION

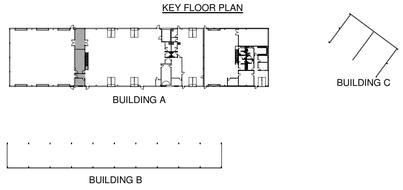
1/2" = 1'-0"



03 TYP. RAILING SECTION

3" = 1'-0"

KEY FLOOR PLAN



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SHEET TITLE

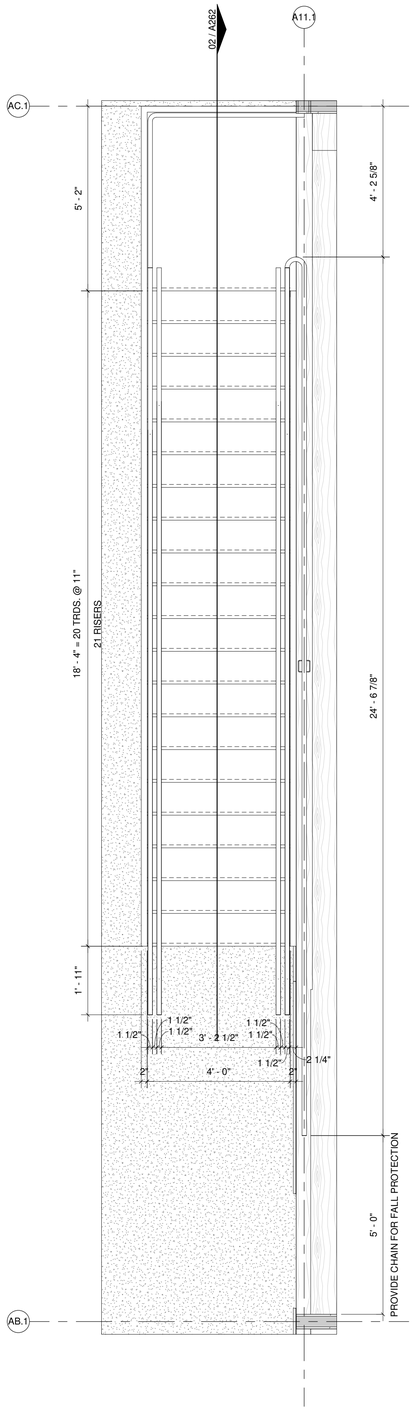
PHASE 1 STAIR PLAN

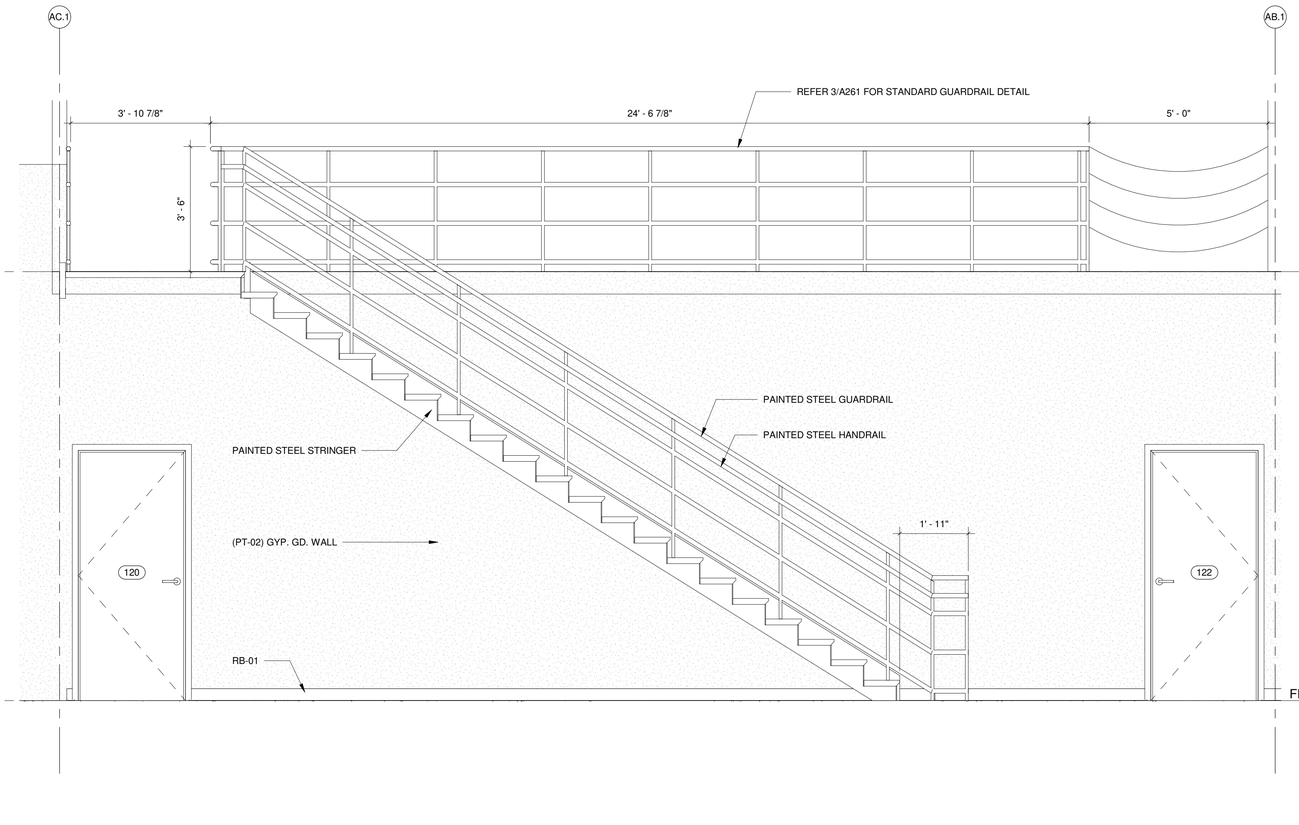
SHEET NUMBER

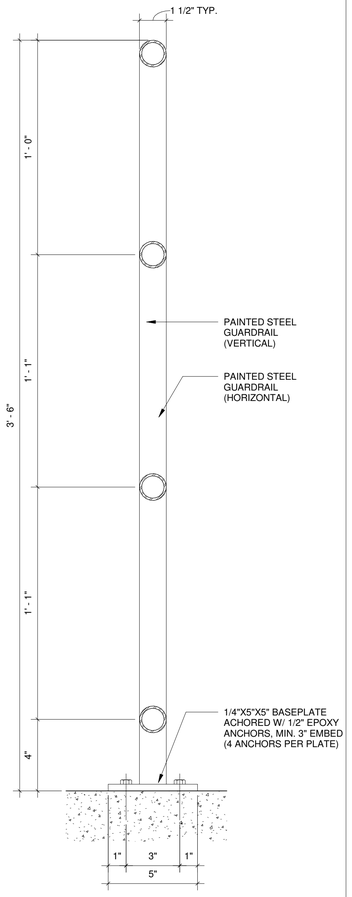
A261

PROJECT NUMBER

1707.3



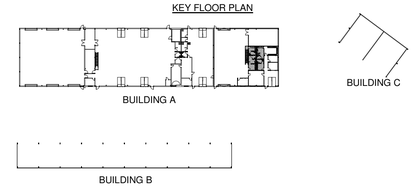




01 PHASE 2 - MEZZANINE STAIR PLAN
1/2" = 1'-0"

02 PHASE 2 - MEZZANINE STAIR SECTION
1/2" = 1'-0"

03 TYP. RAILING SECTION
3" = 1'-0"



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SHEET TITLE

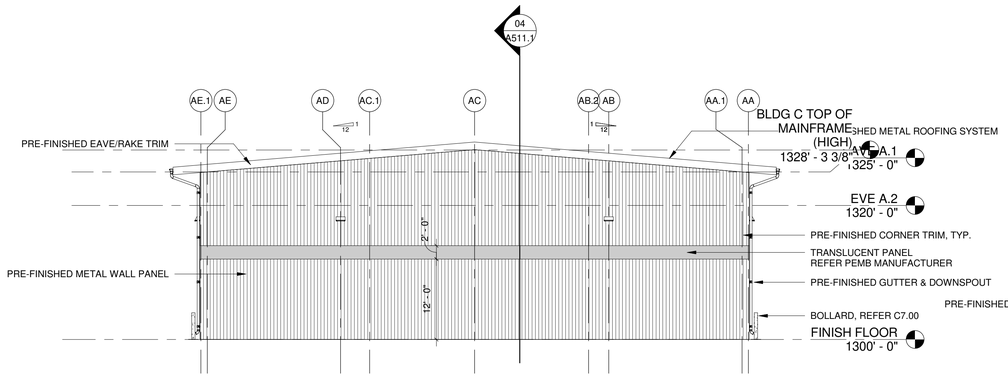
PHASE 2 STAIR PLAN

SHEET NUMBER

A262

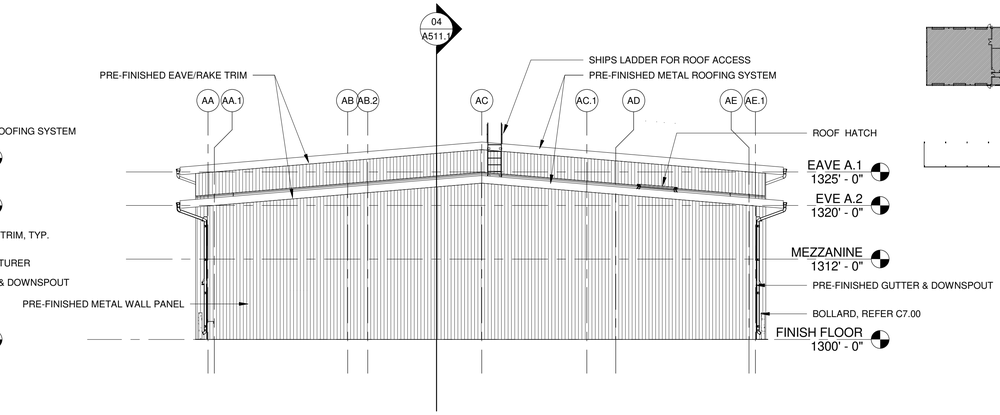
PROJECT NUMBER

1707.3



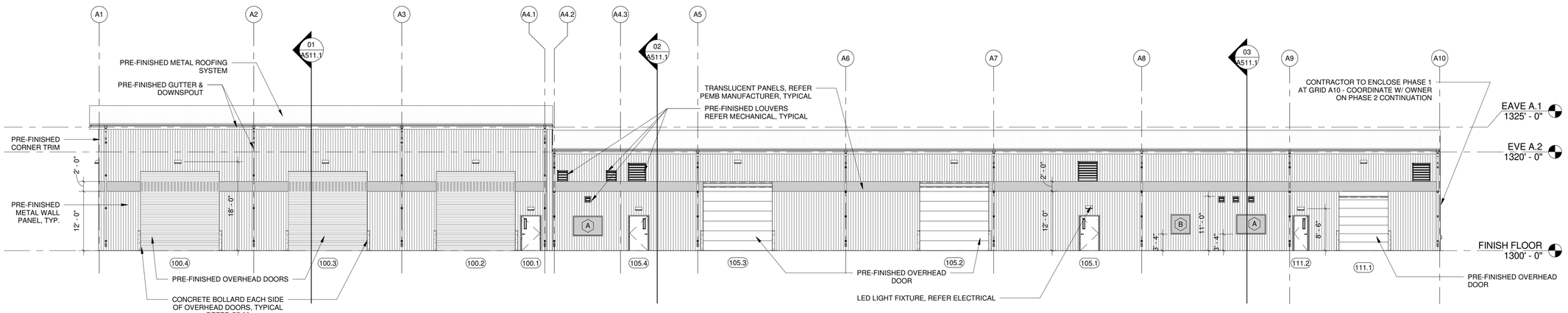
01 PHASE 1 - NORTH ELEVATION

3/32" = 1'-0"



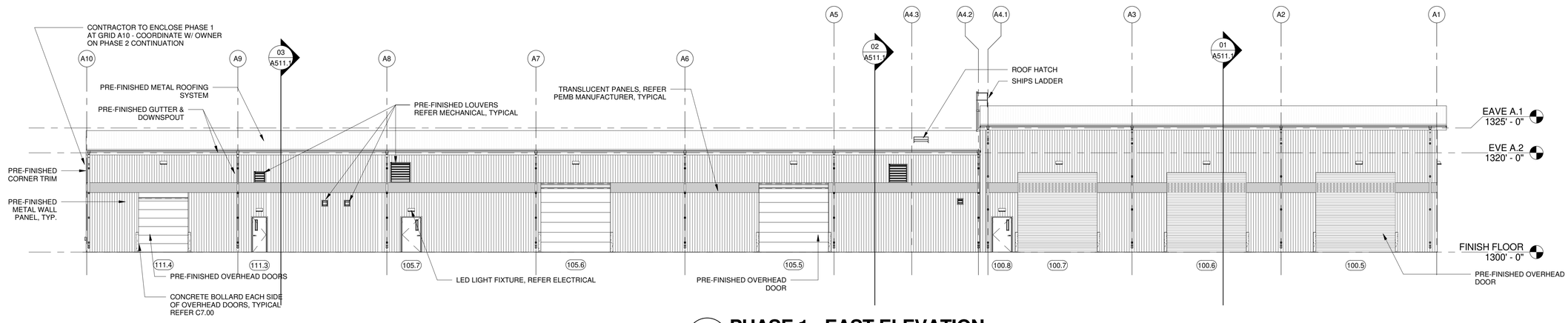
02 PHASE 1 - SOUTH ELEVATION

3/32" = 1'-0"



03 PHASE 1 - WEST ELEVATION

3/32" = 1'-0"



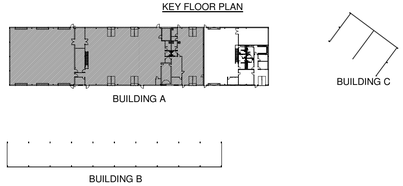
04 PHASE 1 - EAST ELEVATION

3/32" = 1'-0"

GENERAL NOTES

1. REFER PRE-ENGINEERED METAL BUILDING (PEMB) MANUFACTURER FOR ALL STANDARD RIDGE, EAVE AND RAKE FLASHING DETAILS. ARCHITECT TO APPROVE FINAL BUILDING SHOP DRAWINGS
2. PEMB MANUFACTURER TO PROVIDE FRAMING FOR OPENINGS, INCLUDING OVERHEAD DOORS, WALK-THRU DOORS, TRANSLUCENT PANELS, EXHAUST HOODS AND ROOF PENETRATIONS

KEY FLOOR PLAN



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ISSUES REVISIONS

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SHEET TITLE

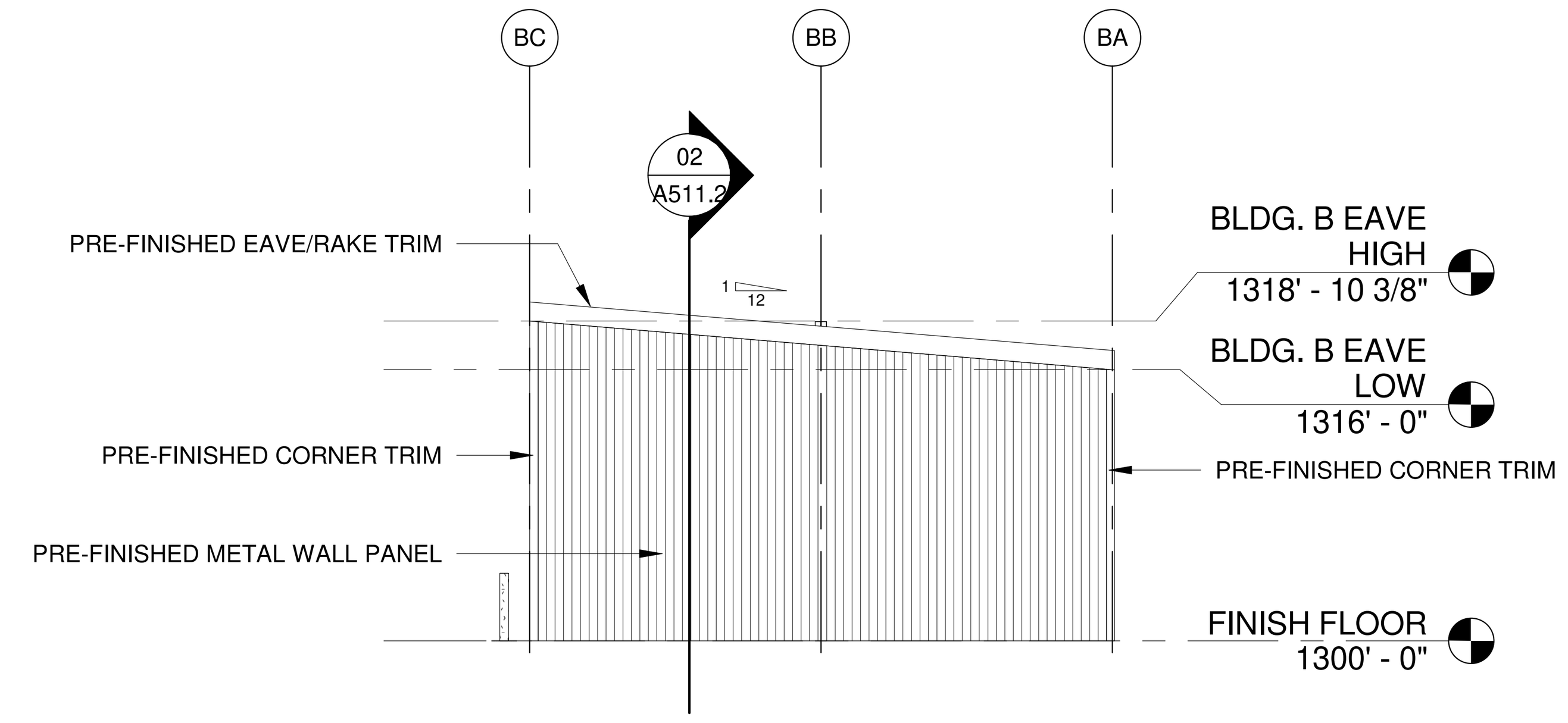
PHASE 1 BUILDING A ELEVATIONS

SHEET NUMBER

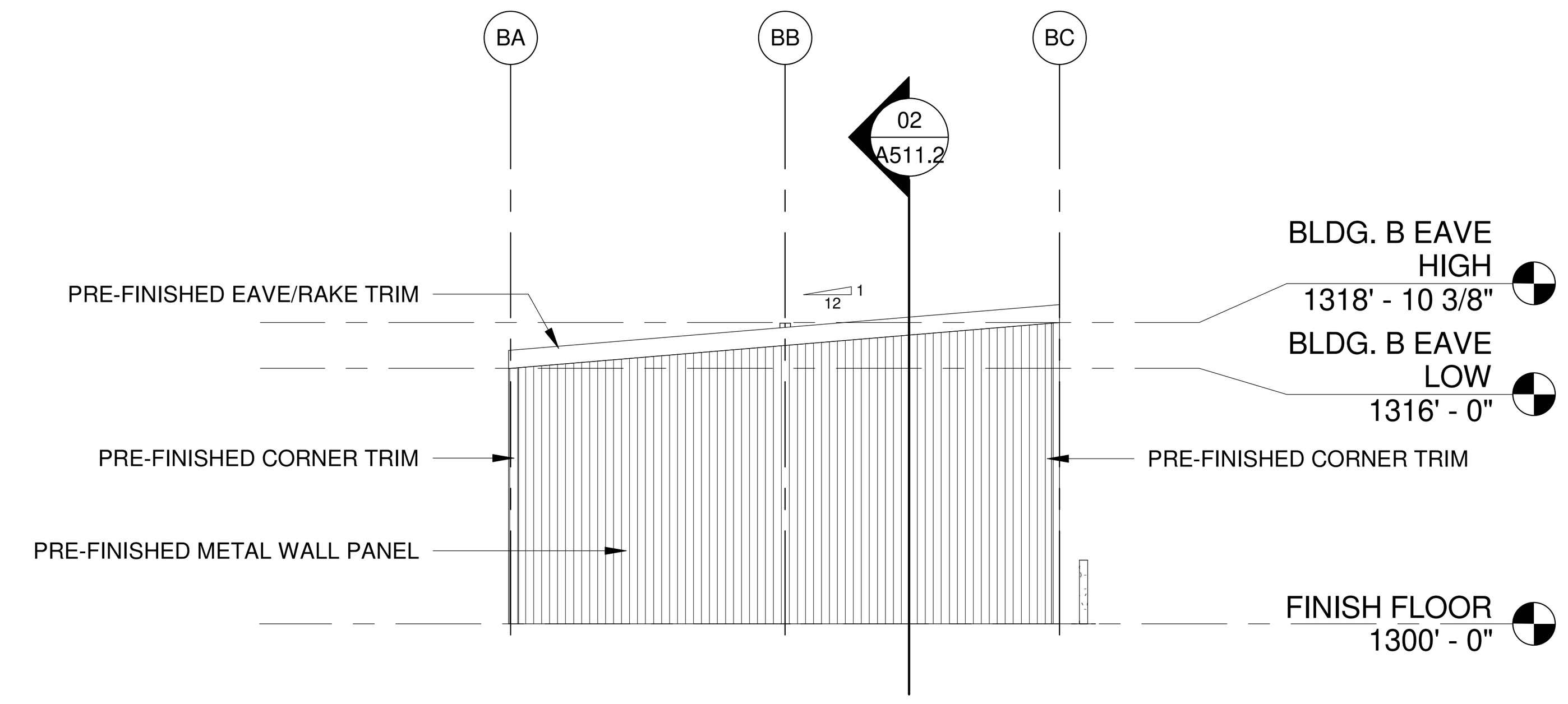
A311.1

PROJECT NUMBER

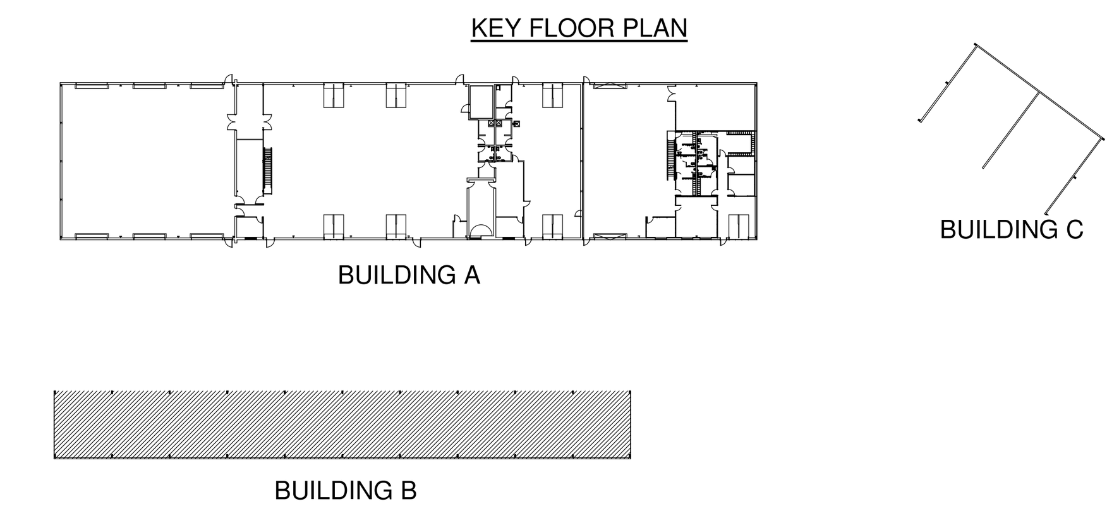
1707.3

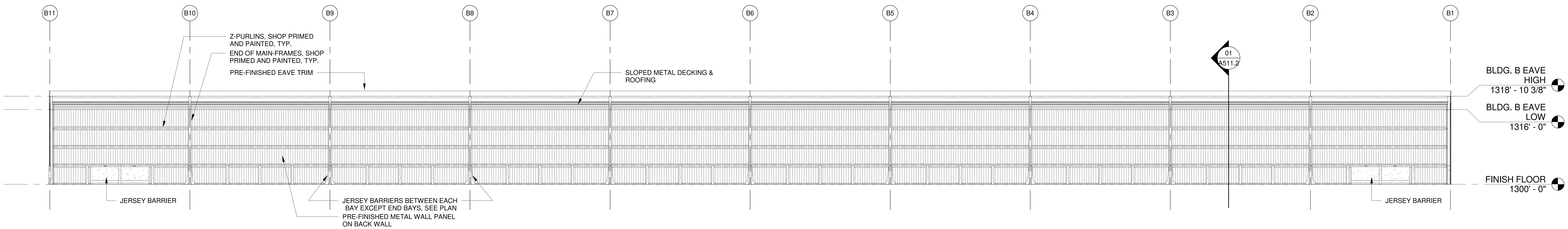


01 PHASE I - BUILDING B NORTH ELEVATION
3/32" = 1'-0"

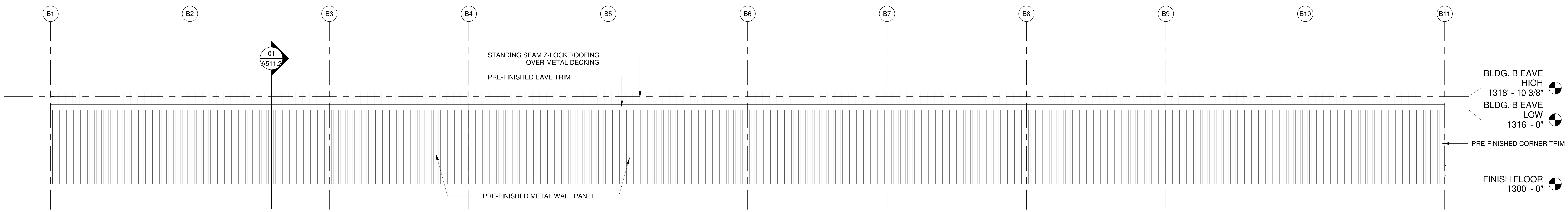


02 PHASE I - BUILDING B SOUTH ELEVATION
3/32" = 1'-0"





03 PHASE I - BUILDING B EAST ELEVATION
3/32" = 1'-0"



04 PHASE I - BUILDING B WEST ELEVATION
3/32" = 1'-0"

GENERAL NOTES

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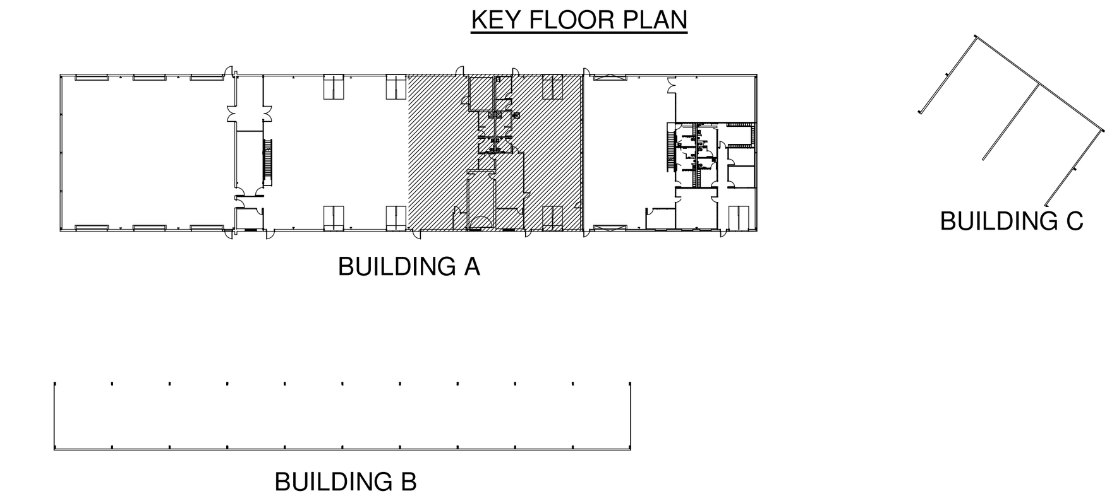
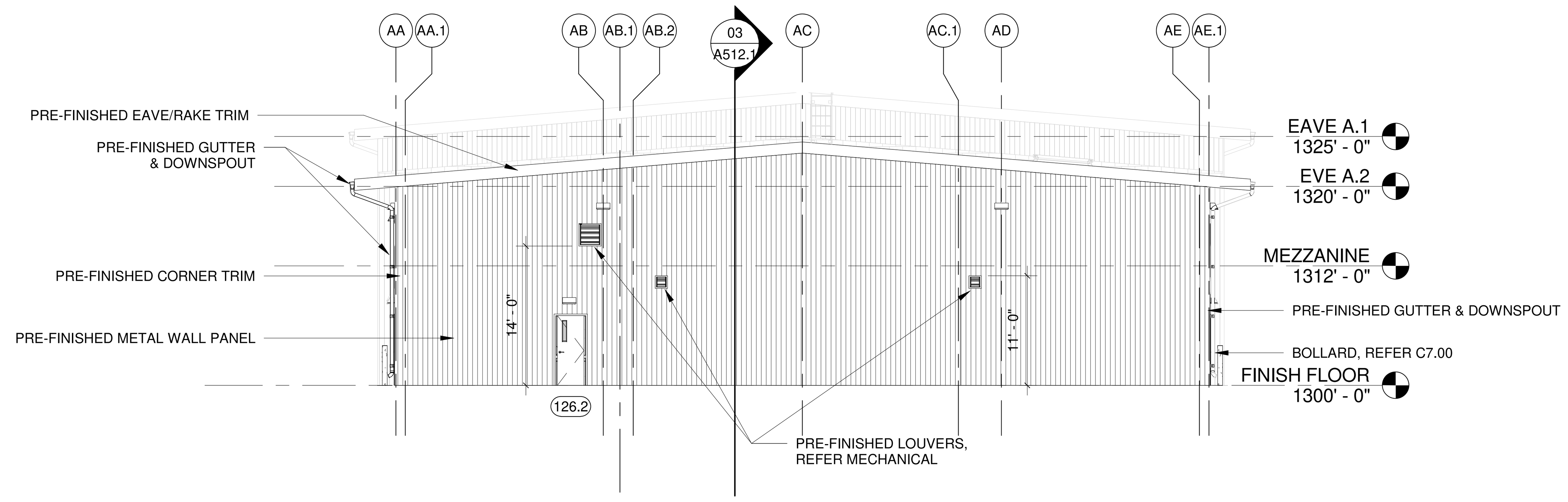
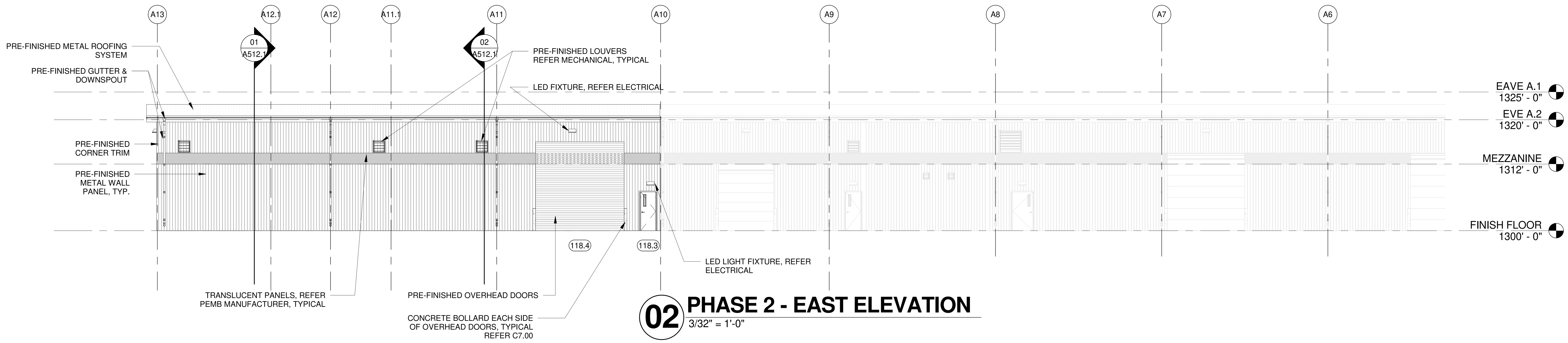
SHEET NUMBER
A311.2

PROJECT NUMBER
1707.3

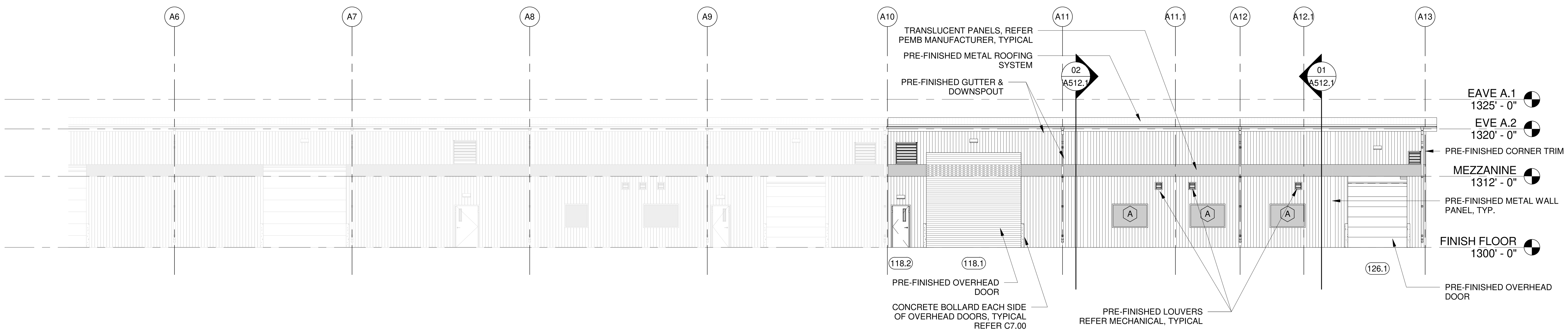




01 PHASE 2 - SOUTH ELEVATION
3/32" = 1'-0"



02 PHASE 2 - EAST ELEVATION
3/32" = 1'-0"



03 PHASE 2 - WEST ELEVATION
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GENERAL NOTES

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2676
LICENSED ARCHITECT
04.30.2021

PROJECT
MOORE PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA
1893

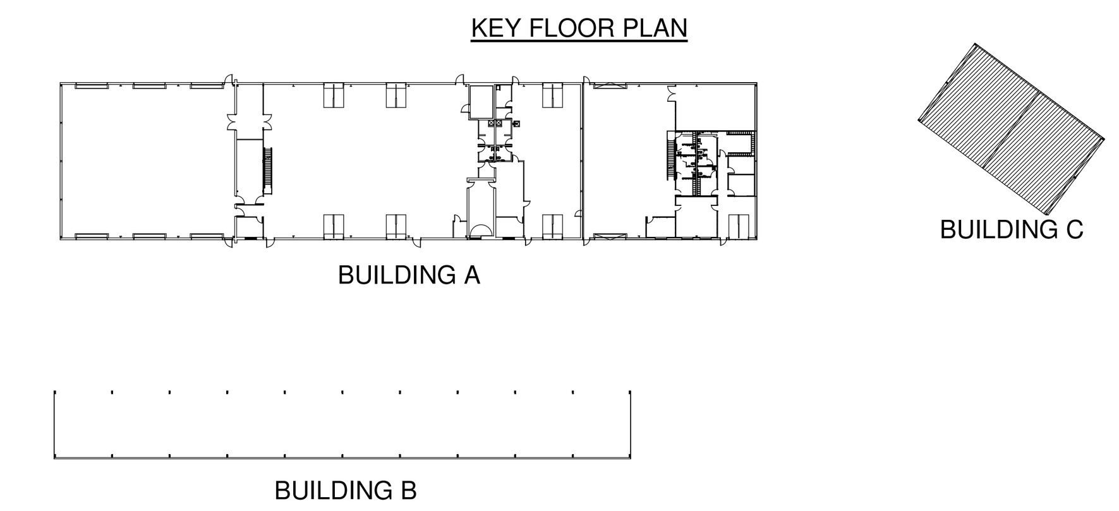
ISSUES REVISIONS

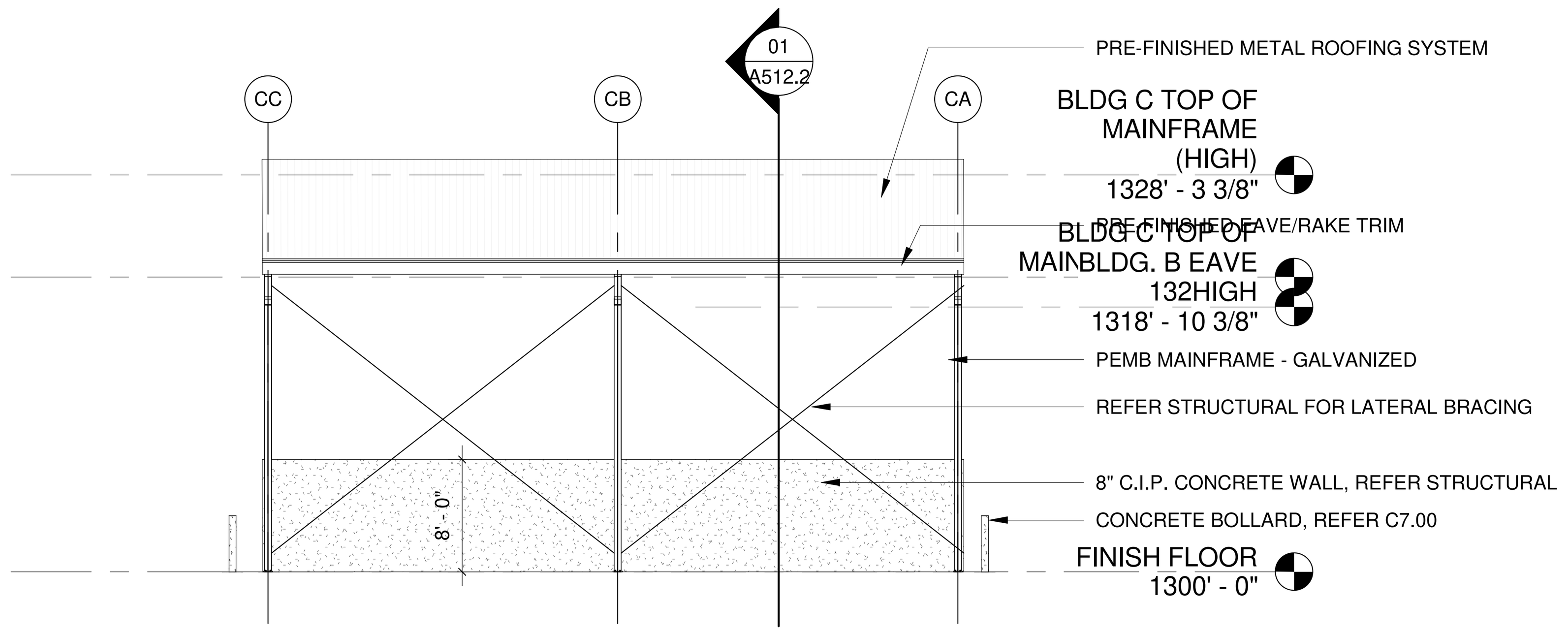
04.30.2021
100% ISSUE FOR BID

SHEET TITLE
PHASE 2 BUILDING A ELEVATIONS

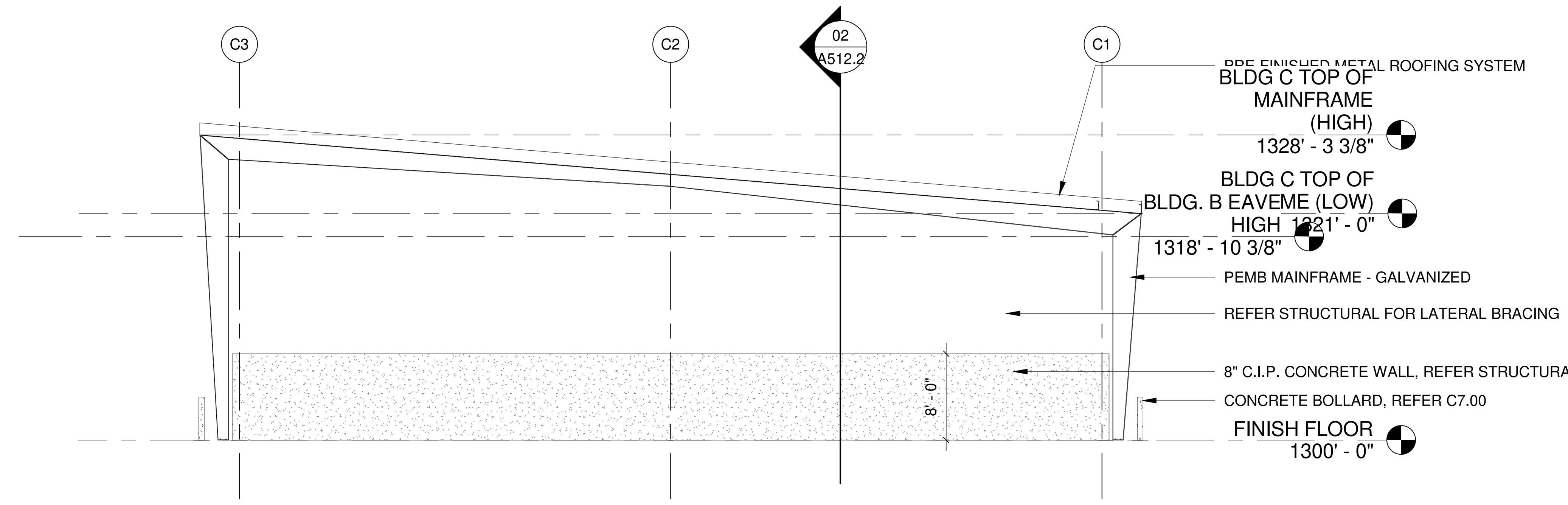
SHEET NUMBER
A312.1

PROJECT NUMBER
1707.3





01 PHASE 2 - NORTH ELEVATION
3/32" = 1'-0"



02 PHASE 2 - EAST ELEVATION
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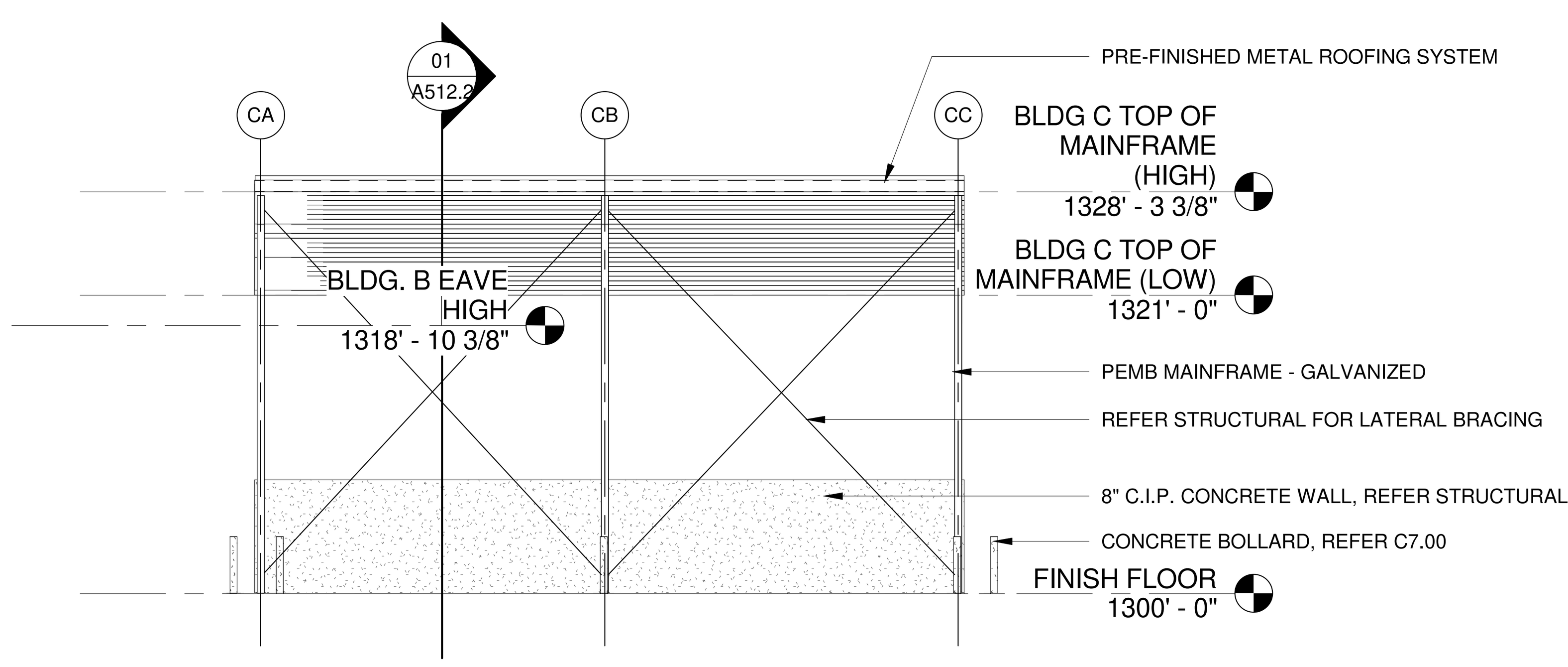
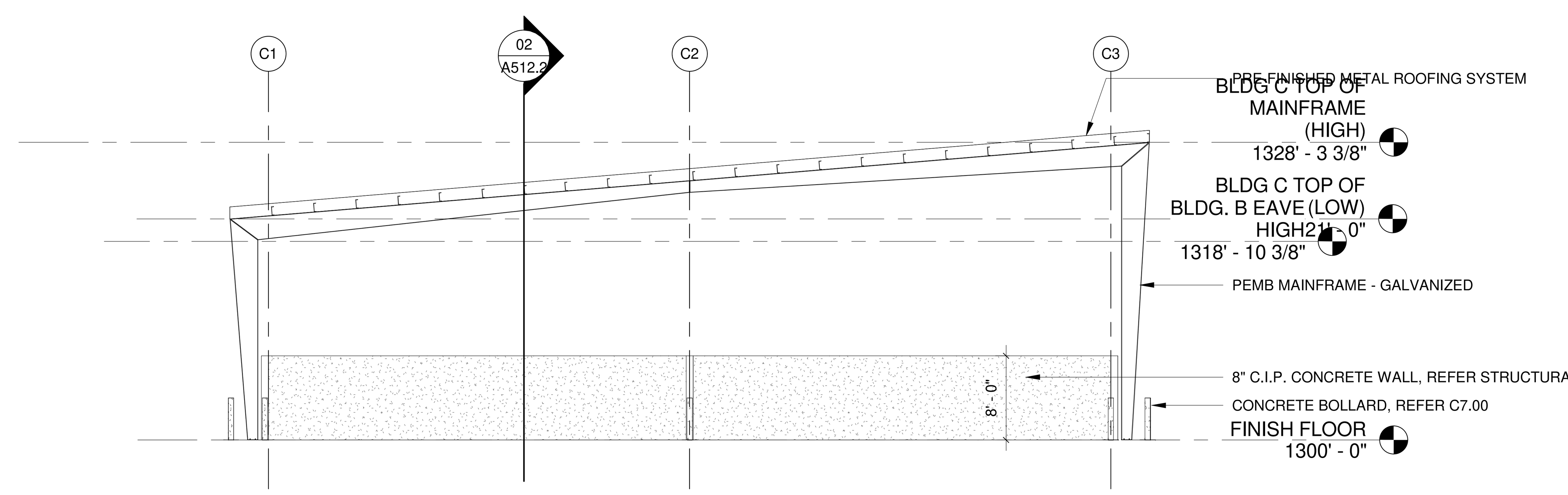


03 PHASE 2 - SOUTH ELEVATION
3/32" = 1'-0"



04 PHASE 2 - WEST ELEVATION
3/32" = 1'-0"

GENERAL NOTES

1. REFER PRE-ENGINEERED METAL BUILDING (PEMB) MANUFACTURER FOR ALL STANDARD RIDGE, EAVE AND RAKE FLASHING DETAILS. ARCHITECT TO APPROVE FINAL BUILDING SHOP DRAWINGS
2. PEMB MANUFACTURER TO PROVIDE FRAMING FOR OPENINGS, INCLUDING OVERHEAD DOORS, WALK-THRU DOORS, TRANSLUCENT PANELS, EXHAUST HOODS AND ROOF PENETRATIONS

415 Broadway
Oklahoma City
Oklahoma 73102

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ARCHITECT'S SEAL

STATE OF OKLAHOMA
ANTHONY DAVID McDERMID
2676
LICENSED ARCHITECT
04.30.2021

PROJECT

MOORE PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS

04.30.2021
100% ISSUE FOR BID

SHEET TITLE
PHASE 2 BUILDING C ELEVATIONS

SHEET NUMBER
A312.2

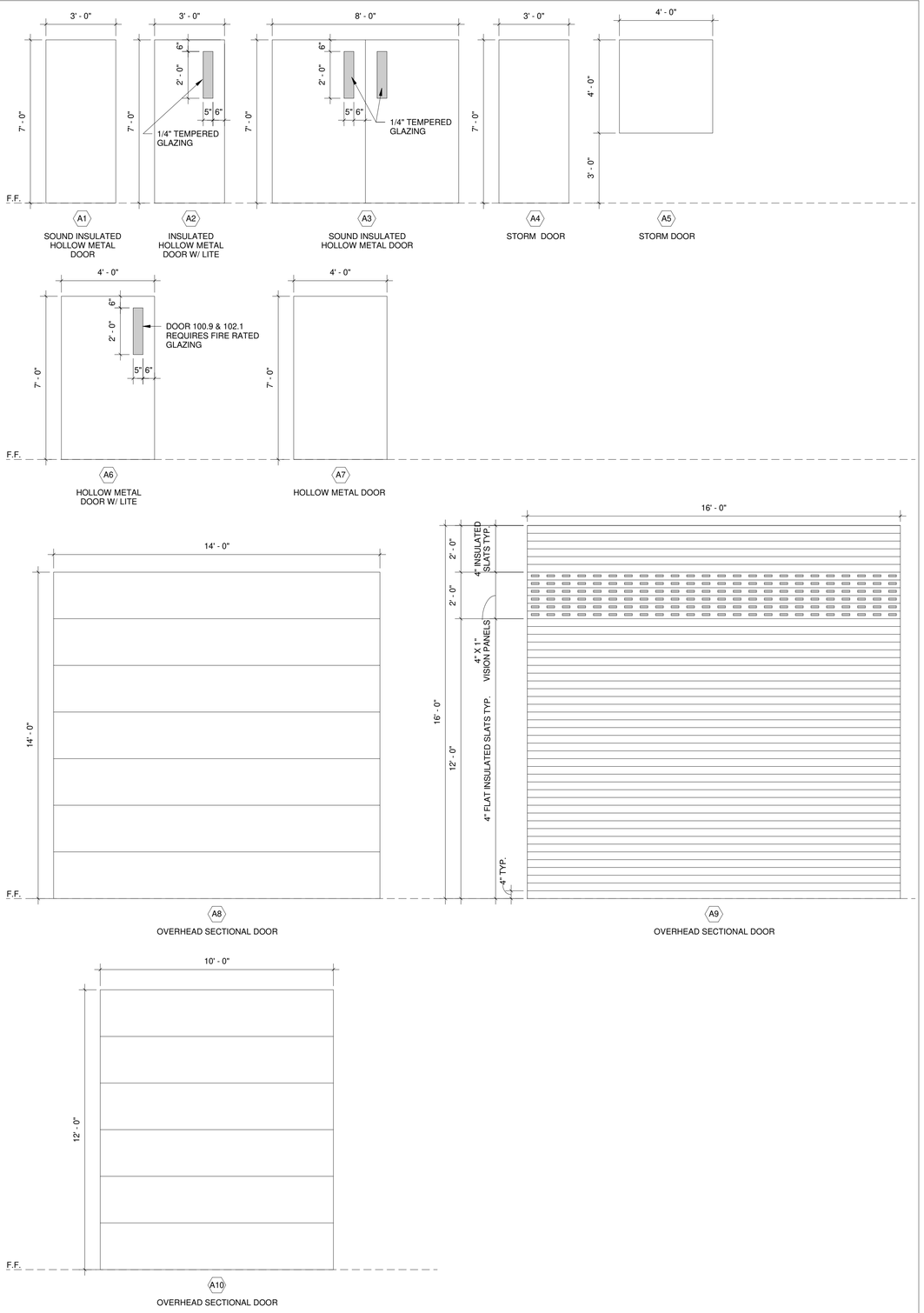
PROJECT NUMBER
1707.3

DOOR SCHEDULE PHASE 1

DOOR NO.	ROOM NAME	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	FRAME TYPE	HARDWARE	RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
100.1	LARGE VEHICLE MAINTENANCE SHOP	3' - 8"	7' - 0"	A6	1	2	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
100.2	LARGE VEHICLE MAINTENANCE SHOP	16' - 0"	16' - 0"	A9	-	-	-	--	-	-	
100.3	LARGE VEHICLE MAINTENANCE SHOP	16' - 0"	16' - 0"	A9	-	-	-	-	-	-	
100.4	LARGE VEHICLE MAINTENANCE SHOP	16' - 0"	16' - 0"	A9	-	-	-	-	-	-	
100.5	LARGE VEHICLE MAINTENANCE SHOP	16' - 0"	16' - 0"	A9	-	-	-	-	-	-	
100.6	LARGE VEHICLE MAINTENANCE SHOP	16' - 0"	16' - 0"	A9	-	-	-	-	-	-	
100.7	LARGE VEHICLE MAINTENANCE SHOP	16' - 0"	16' - 0"	A9	-	-	-	-	-	-	
100.8	LARGE VEHICLE MAINTENANCE SHOP	3' - 8"	7' - 0"	A6	1	2	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
100.9	LARGE VEHICLE MAINTENANCE SHOP	4' - 0"	7' - 0"	A6	2	6	1 1/2 HR	21/A420	22/A420	23/A420	DOOR REQUIRES ACCESS CONTROLS
101	OFFICE	3' - 0"	7' - 0"	A1	4	14	-	04/A420	05/A420	10/A420	
102.1	PARTS ROOM	4' - 0"	7' - 0"	A6	2	8	1 1/2 HR	21/A420	22/A420	23/A420	
102.2	PARTS ROOM	3' - 8"	7' - 0"	A6	1	10	-	04/A420	05/A420	10/A420	
103.1	FABRICATION SHOP	8' - 0"	7' - 0"	A3	7	4	1 1/2 HR	21/A420	22/A420	23/A420	
103.2	FABRICATION SHOP	8' - 0"	7' - 0"	A3	8	5	-	04/A420	05/A420	10/A420	
104	FIRE RISER	3' - 0"	7' - 0"	A1	4	11	-	04/A420	05/A420	10/A420	
105.1	FLEET MAINTENANCE SHOP	3' - 8"	7' - 0"	A6	1	2	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
105.2	FLEET MAINTENANCE SHOP	14' - 0"	14' - 0"	A8	-	-		-	-	-	
105.3	FLEET MAINTENANCE SHOP	14' - 0"	14' - 0"	A8	-	-		-	-	-	
105.4	FLEET MAINTENANCE SHOP	3' - 8"	7' - 0"	A6	1	2	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
105.5	FLEET MAINTENANCE SHOP	14' - 0"	14' - 0"	A8	-	-		-	-	-	
105.6	FLEET MAINTENANCE SHOP	14' - 0"	14' - 0"	A8	-	-		-	-	-	
105.7	FLEET MAINTENANCE SHOP	3' - 8"	7' - 0"	A6	1	2	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
106	OIL STORAGE	4' - 0"	7' - 0"	A7	2	8	1 1/2 HR	18/A420	19/A420	20/A420	
107	LOCKER ROOM	3' - 0"	7' - 0"	A1	4	17	-	08/A420	09/A420	10/A420	
108	RESTROOM	3' - 0"	7' - 0"	A1	4	16	-	08/A420	09/A420	10/A420	
109	MECHANICAL	3' - 0"	7' - 0"	A1	4	15	-	04/A420	05/A420	10/A420	
110.1	BREAK ROOM	3' - 0"	7' - 0"	A4	5	18	-	01/A421	02/A421	03/A421	STORM DOOR
110.2	BREAK ROOM	3' - 0"	7' - 0"	A4	5	18	-	01/A421	02/A421	03/A421	STORM DOOR
110.3	BREAK ROOM	4' - 0"	4' - 0"	A5	6	19	-	04/A421	05/A421	06/A421	STORM DOOR
110.4	BREAK ROOM	3' - 0"	7' - 0"	A1	4	6.1	-	01/A421	02/A421	03/A421	
110.5	BREAK ROOM	3' - 0"	7' - 0"	A1	4	7	-	01/A421	02/A421	03/A421	
111.1	BUILDING MAINTENANCE SHOP	10' - 0"	12' - 0"	A17	-	-		-	-	-	
111.2	BUILDING MAINTENANCE SHOP	2' - 8"	7' - 0"	A2	3	1	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
111.3	BUILDING MAINTENANCE SHOP	2' - 8"	7' - 0"	A2	3	1	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
111.4	BUILDING MAINTENANCE SHOP	10' - 0"	12' - 0"	A17	-	-		-	-	-	
112	JANITOR	3' - 0"	7' - 0"	A1	4	12	-	04/A420	05/A420	10/A420	
113	IT ROOM	3' - 0"	7' - 0"	A1	4	9	-	04/A420	05/A420	10/A420	
114	LOCKER ROOM	3' - 0"	7' - 0"	A1	4	17	-	08/A420	09/A420	10/A420	
115	RESTROOM	3' - 0"	7' - 0"	A1	4	16	-	08/A420	09/A420	10/A420	
116.1	OFFICE	3' - 0"	7' - 0"	A1	4	13	-	04/A420	05/A420	10/A420	
116.2	OFFICE	3' - 0"	7' - 0"	A1	4	13	-	04/A420	05/A420	10/A420	
117	OFFICE	3' - 0"	7' - 0"	A1	4	14	-	04/A420	05/A420	10/A420	

DOOR SCHEDULE PHASE 2

DOOR NO.	ROOM NAME	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	FRAME TYPE	HARDWARE	RATING	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
118.1	STREETS AND DRAINAGE SHOP	16' - 0"	16' - 0"	A9	-	-	-	-	-	-	
118.2	STREETS AND DRAINAGE SHOP	2' - 8"	7' - 0"	A2	3	1	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
118.3	STREETS AND DRAINAGE SHOP	2' - 8"	7' - 0"	A2	3	1	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
118.4	STREETS AND DRAINAGE SHOP	16' - 0"	16' - 0"	A9	-	-	-	14/A420	15/A420	16/A420	
118.5	STREETS AND DRAINAGE SHOP	2' - 8"	7' - 0"	A2	4	3	-	01/A420	02/A420	03/A420	
119	SIGN SHOP & STORAGE	8' - 0"	7' - 0"	A3	8	5	-	04/A420	05/A420	10/A420	
120	WOMENS LOCKER ROOM	3' - 0"	7' - 0"	A1	4	17	-	08/A420	09/A420	10/A420	
121	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A1	4	16	-	06/A420	07/A420	10/A420	
122	MENS LOCKER ROOM	3' - 0"	7' - 0"	A1	4	17	-	08/A420	09/A420	10/A420	
123	MEN'S RESTROOM	3' - 0"	7' - 0"	A1	4	17	-	06/A420	07/A420	10/A420	
124	OFFICE	3' - 0"	7' - 0"	A1	4	14	-	04/A420	05/A420	10/A420	
125	BREAK ROOM	3' - 0"	7' - 0"	A1	4	17	-	04/A420	05/A420	10/A420	
126.1	SANITARY SHOP	10' - 0"	12' - 0"	A17	-	-		-	-	-	
126.2	SANITARY SHOP	2' - 8"	7' - 0"	A2	3	1	-	01/A420	02/A420	03/A420	DOOR REQUIRES ACCESS CONTROLS
127	WOMENS LOCKER ROOM	3' - 0"	7' - 0"	A1	4	17	-	08/A420	09/A420	10/A420	
128	WOMEN'S RESTROOM	3' - 0"	7' - 0"	A1	4	16	-	06/A420	07/A420	10/A420	
129	MENS LOCKER ROOM	3' - 0"	7' - 0"	A1	4	17	-	08/A420	09/A420	10/A420	
130	MEN'S RESTROOM	3' - 0"	7' - 0"	A1	4	17	-	06/A420	07/A420	10/A420	
131	STORAGE	3' - 0"	7' - 0"	A1	4	12	-	04/A420	05/A420	10/A420	
132	OFFICE	3' - 0"	7' - 0"	A1	4	14	-	04/A420	05/A420	10/A420	
133	BREAK ROOM	3' - 0"	7' - 0"	A1	4	17	-	04/A420	05/A420	10/A420	DOOR REQUIRES ACCESS CONTROLS



01 DOOR TYPES
3/8" = 1'-0"

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ARCHITECT'S SEAL

STATE OF OKLAHOMA
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19676
LICENSED ARCHITECT

04.30.2021

PROJECT

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512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1890

ISSUES REVISIONS

04.30.2021

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SHEET TITLE

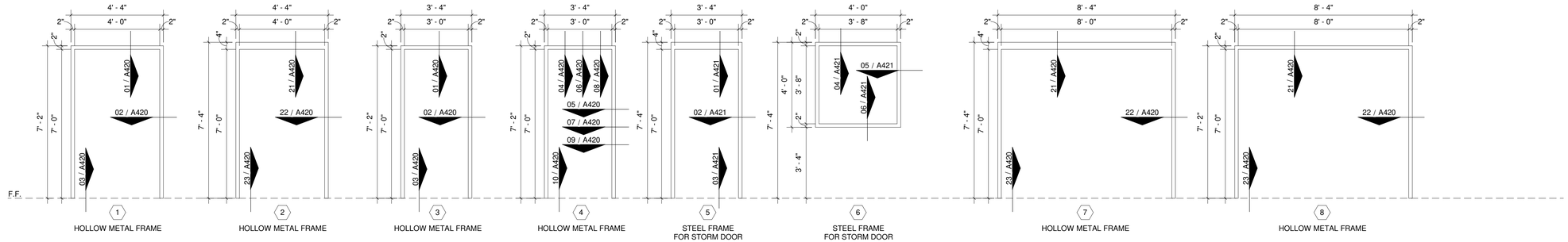
DOOR SCHEDULE AND FRAME TYEPS

SHEET NUMBER

A410

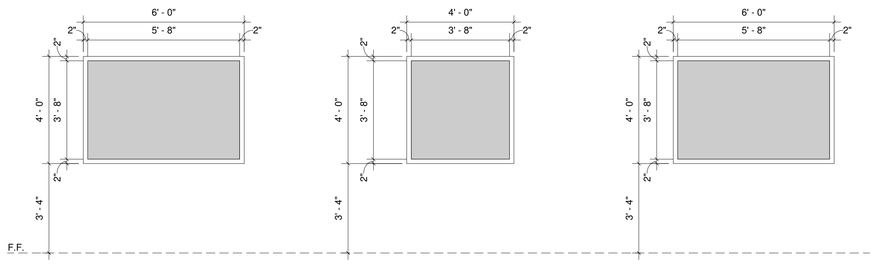
PROJECT NUMBER

1707.3



01 FRAME TYPES

3/8" = 1'-0"



TYPE	NOTES
A	1
HEAD	07/A421
JAMB	08/A421
SILL	09/A421

TYPE	NOTES
B	1
HEAD	04/A421
JAMB	05/A421
SILL	06/A421

TYPE	NOTES
C	2
HEAD	10/A421
JAMB	11/A421
SILL	12/A421

GLAZING NOTES

1. 1" TINTED INSULATED GLAZING
2. 1/4" TEMPERED CLEAR GLAZING

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SHEET TITLE

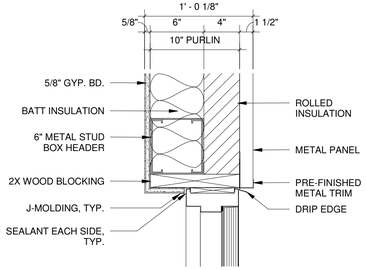
FRAME TYPES AND WINDOW TYPES

SHEET NUMBER

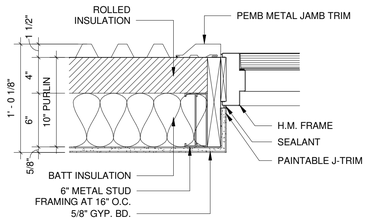
A411

PROJECT NUMBER

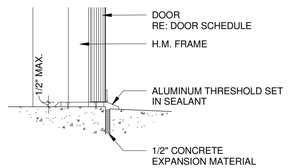
1707.3



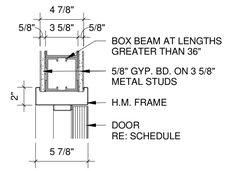
01 EXT. H.M. HEAD DETAIL
1 1/2" = 1'-0"



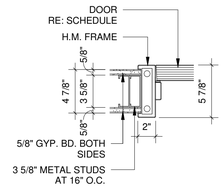
02 EXT. H.M. JAMB DETAIL
1 1/2" = 1'-0"



03 EXT. H.M. SILL DETAIL
1 1/2" = 1'-0"



04 INT. H.M. HEAD DETAIL
1 1/2" = 1'-0"



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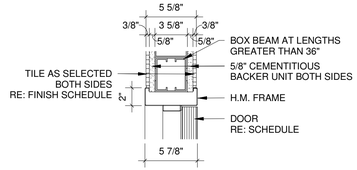
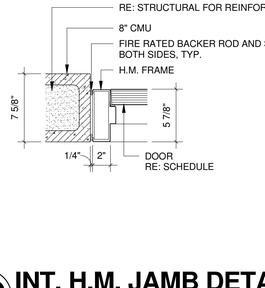
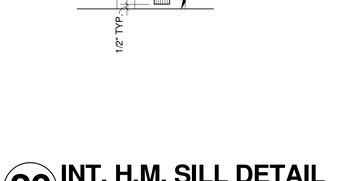
1 1/2" = 1'-0"



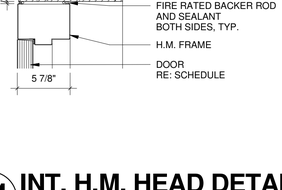
06 INT. H.M. HEAD DETAIL
1 1/2" = 1'-0"



07 INT. H.M. JAMB DETAIL
1 1/2" = 1'-0"



08 INT. H.M. HEAD DETAIL
1 1/2" = 1'-0"



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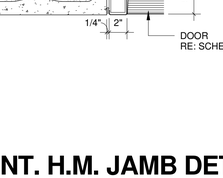
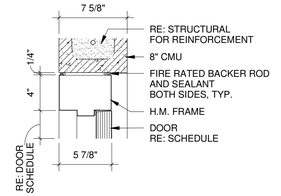
1 1/2" = 1'-0"



10 INT. H.M. SILL DETAIL
1 1/2" = 1'-0"

11 NOT USED
1 1/2" = 1'-0"

12 NOT USED
1 1/2" = 1'-0"



13 NOT USED
1 1/2" = 1'-0"

14 NOT USED
1 1/2" = 1'-0"

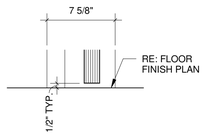
15 NOT USED
1 1/2" = 1'-0"

16 NOT USED
1 1/2" = 1'-0"

17 NOT USED
1 1/2" = 1'-0"

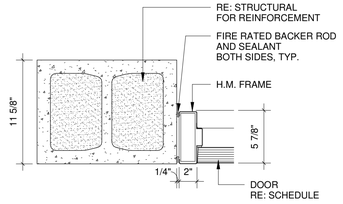
18 INT. H.M. HEAD DETAIL
1 1/2" = 1'-0"

19 INT. H.M. JAMB DETAIL
1 1/2" = 1'-0"



20 INT. H.M. SILL DETAIL
1 1/2" = 1'-0"

21 INT. H.M. HEAD DETAIL
1 1/2" = 1'-0"



22 INT. H.M. JAMB DETAIL
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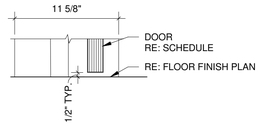

23 INT. H.M. SILL DETAIL
1 1/2" = 1'-0"

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SHEET TITLE

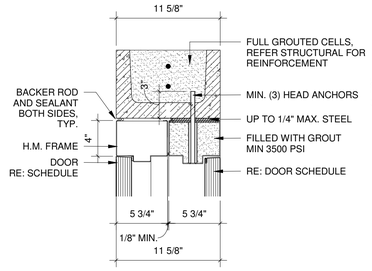
HEAD, JAMB, AND SILL DETAILS

SHEET NUMBER

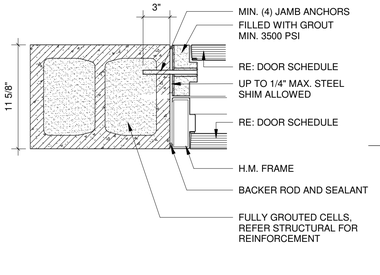
A420

PROJECT NUMBER

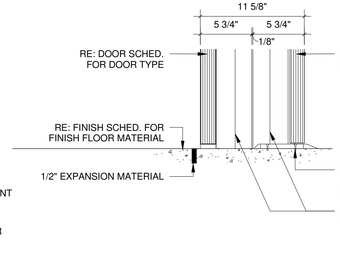
1707.3



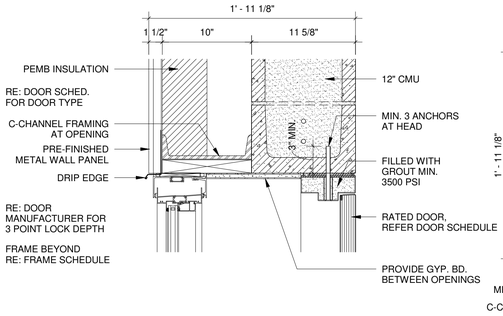
01 INT. H.M. HEAD DETAIL
1 1/2" = 1'-0"



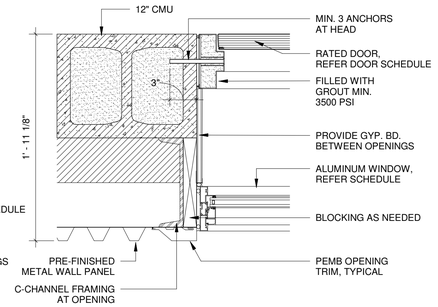
02 INT. H.M. JAMB DETAIL
1 1/2" = 1'-0"



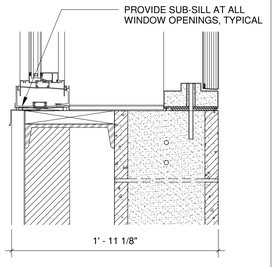
03 INT. H.M. SILL DETAIL
1 1/2" = 1'-0"



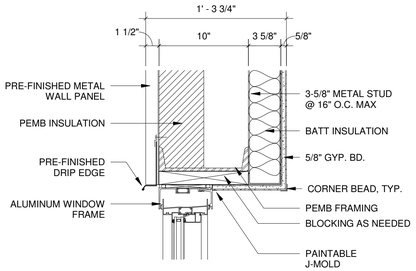
04 EXT. HEAD DETAIL
1 1/2" = 1'-0"



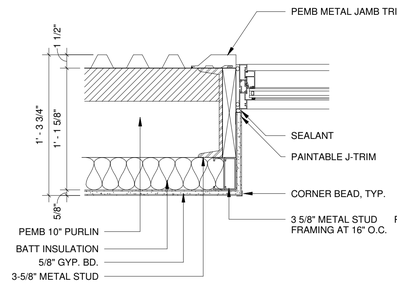
05 EXT. JAMB DETAIL
1 1/2" = 1'-0"



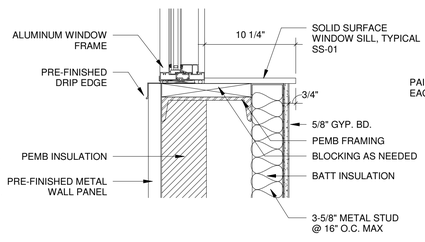
06 EXT. SILL DETAIL
1 1/2" = 1'-0"



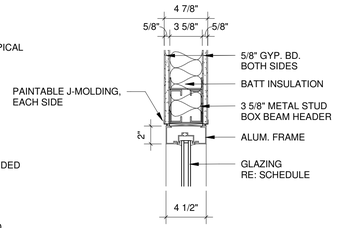
07 EXT. HEAD DETAIL
1 1/2" = 1'-0"



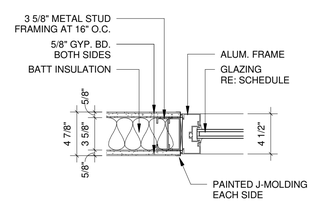
08 EXT. JAMB DETAIL
1 1/2" = 1'-0"



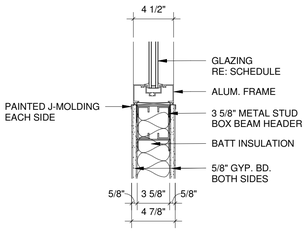
09 EXT. SILL DETAIL
1 1/2" = 1'-0"



10 INT. HEAD DETAIL
1 1/2" = 1'-0"



11 INT. JAMB DETAIL
1 1/2" = 1'-0"



12 INT. SILL DETAIL
1 1/2" = 1'-0"

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SHEET TITLE

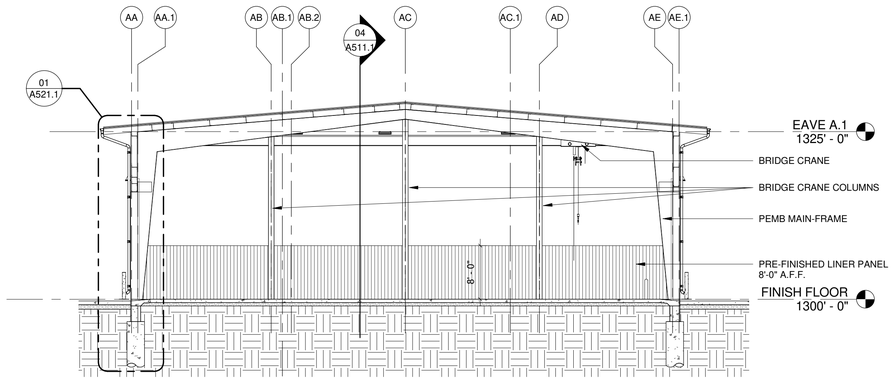
HEAD, JAMB, AND SILL DETAILS

SHEET NUMBER

A421

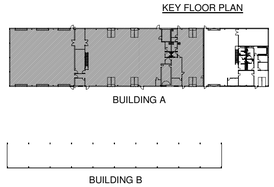
PROJECT NUMBER

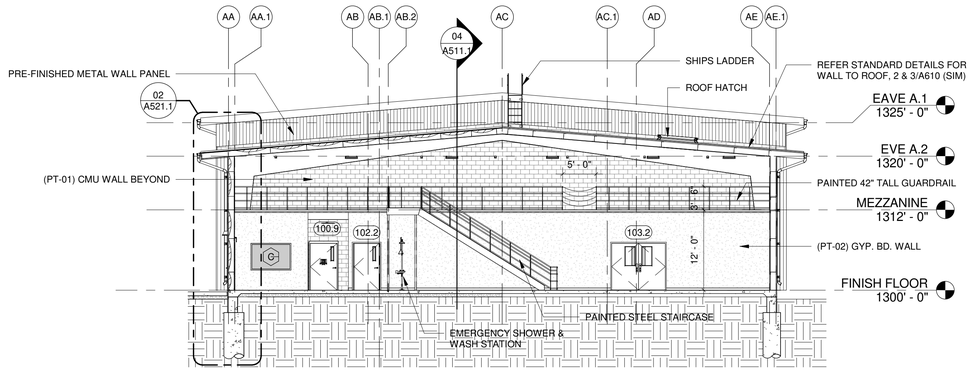
1707.3



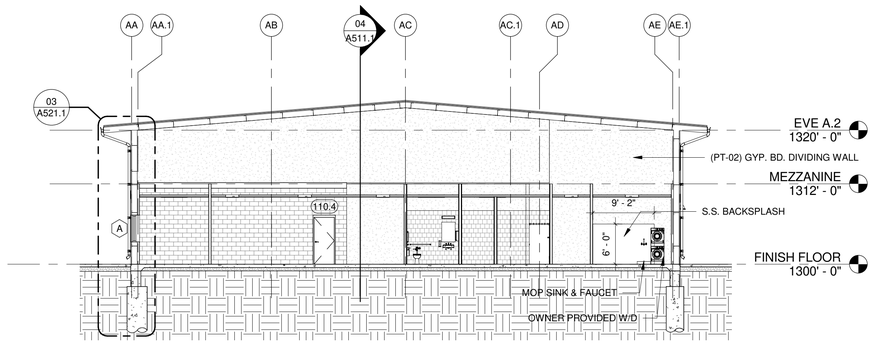
01 BUILDING SECTION
3/32" = 1'-0"

KEY FLOOR PLAN

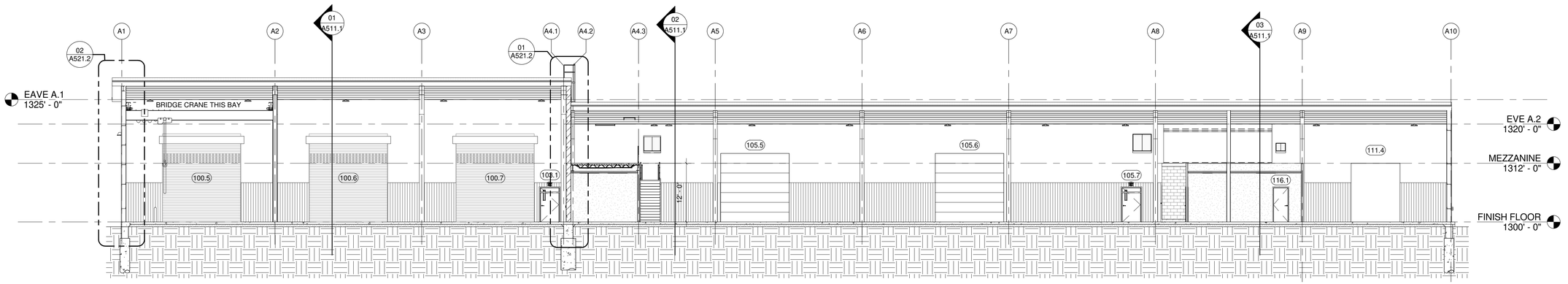




02 BUILDING SECTION
3/32" = 1'-0"



03 BUILDING SECTION
3/32" = 1'-0"



04 BUILDING SECTION
3/32" = 1'-0"

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SHEET TITLE

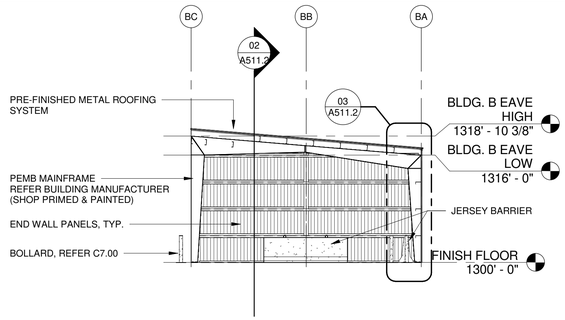
PHASE 1 BUILDING A SECTIONS

SHEET NUMBER

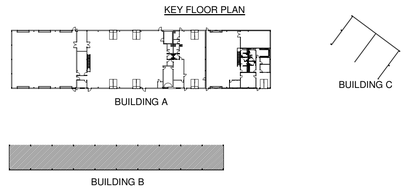
A511.1

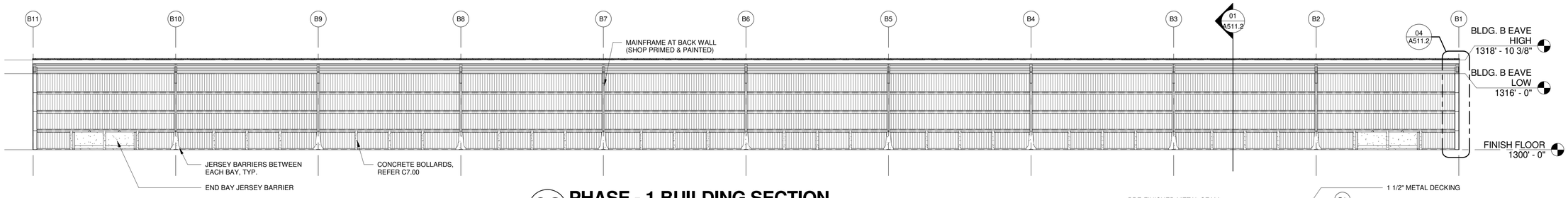
PROJECT NUMBER

1707.3

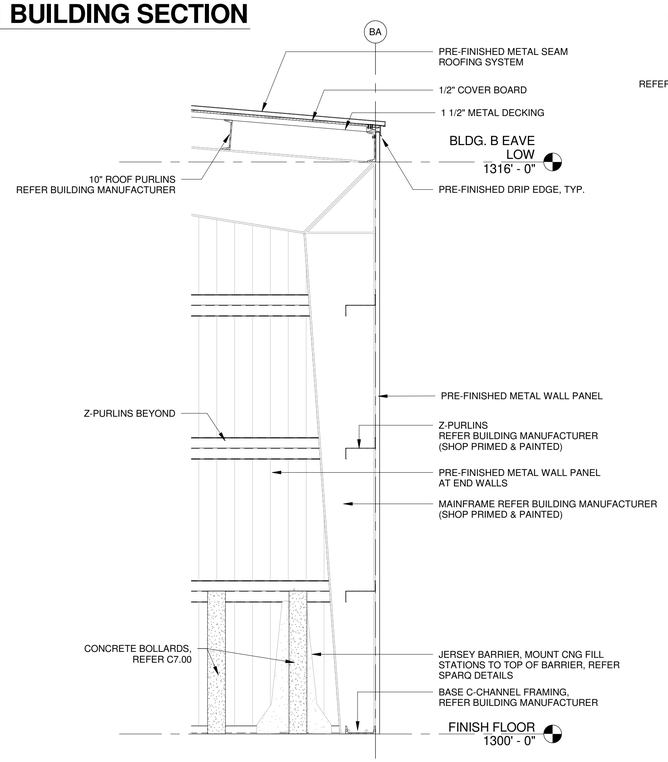


01 PHASE 1 - BUILDING SECTION
3/32" = 1'-0"

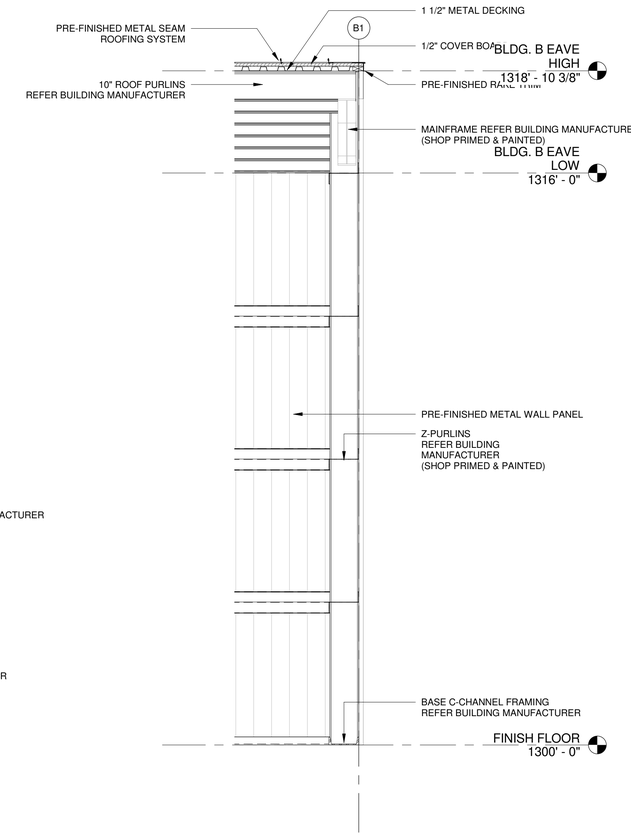




02 PHASE - 1 BUILDING SECTION
3/32" = 1'-0"



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



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

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SHEET TITLE

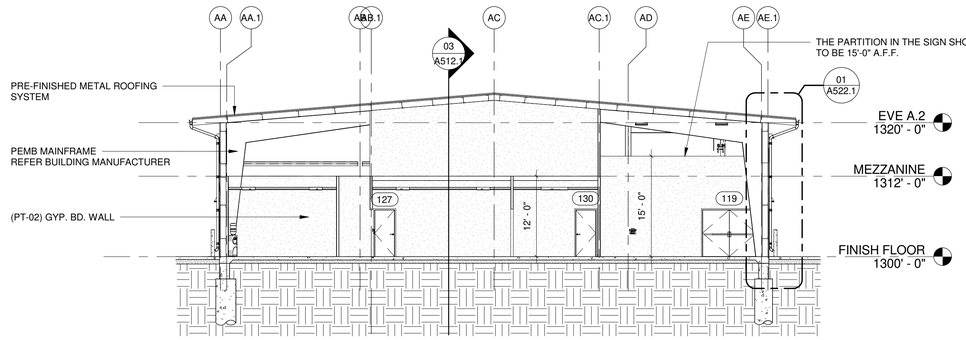
PHASE 1 BUILDING B SECTIONS

SHEET NUMBER

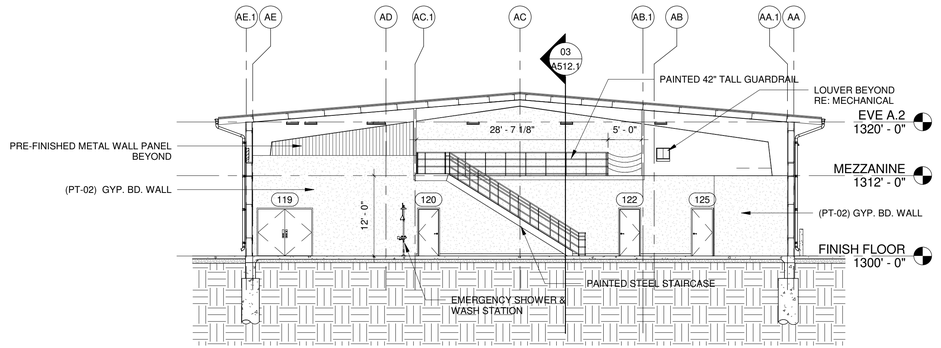
A511.2

PROJECT NUMBER

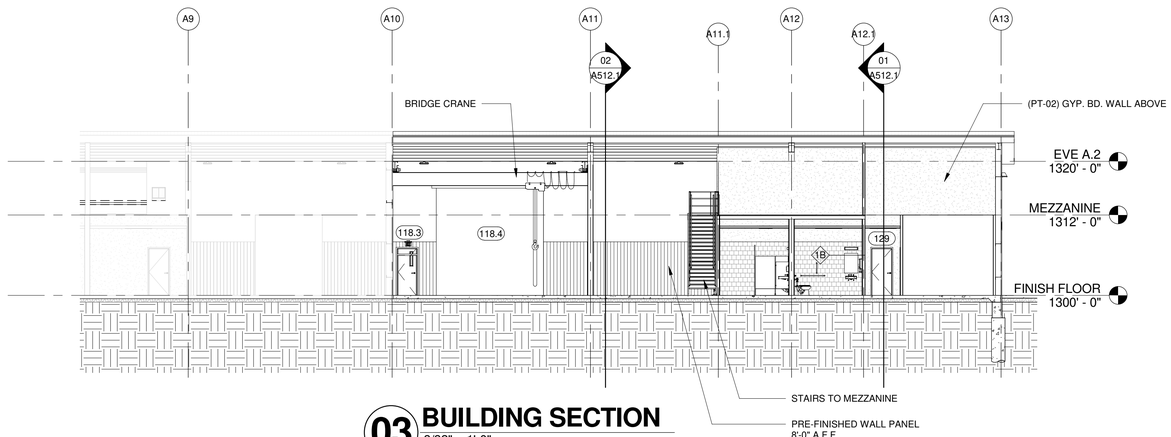
1707.3



01 BUILDING SECTION
3/32" = 1'-0"

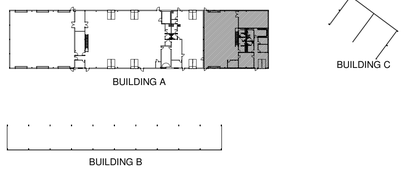


02 BUILDING SECTION
3/32" = 1'-0"



03 BUILDING SECTION
3/32" = 1'-0"

KEY FLOOR PLAN



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SHEET TITLE

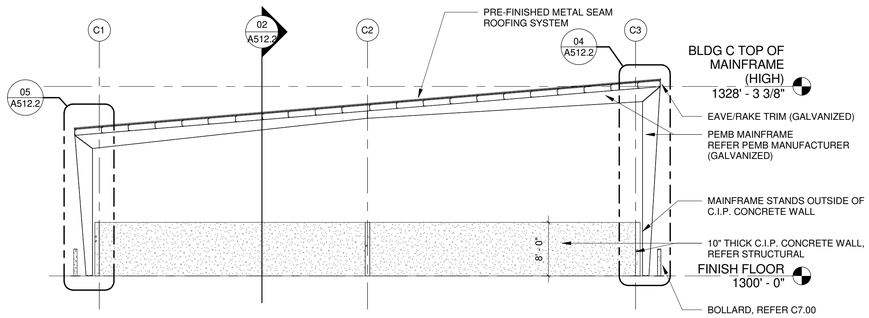
PHASE 2 BUILDING A SECTIONS

SHEET NUMBER

A512.1

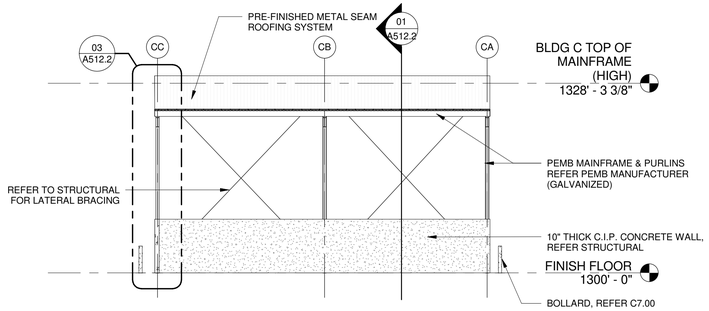
PROJECT NUMBER

1707.3



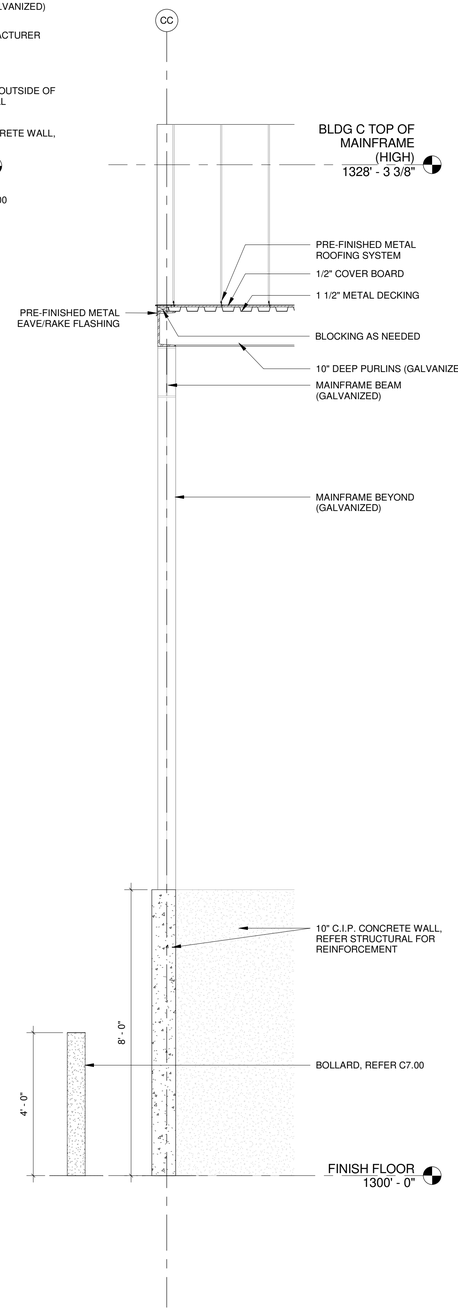
01 PHASE 2 - BUILDING SECTION

3/32" = 1'-0"



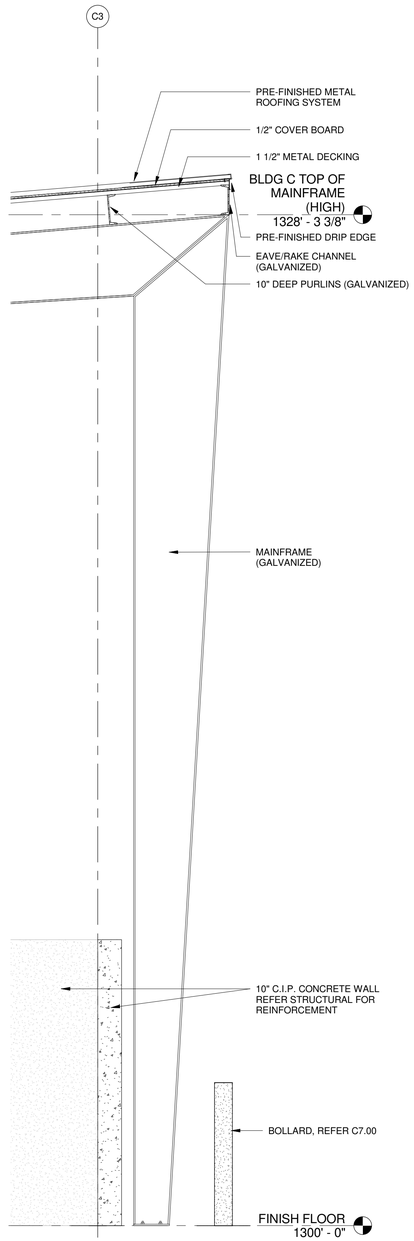
02 PHASE 2 - BUILDING SECTION

3/32" = 1'-0"



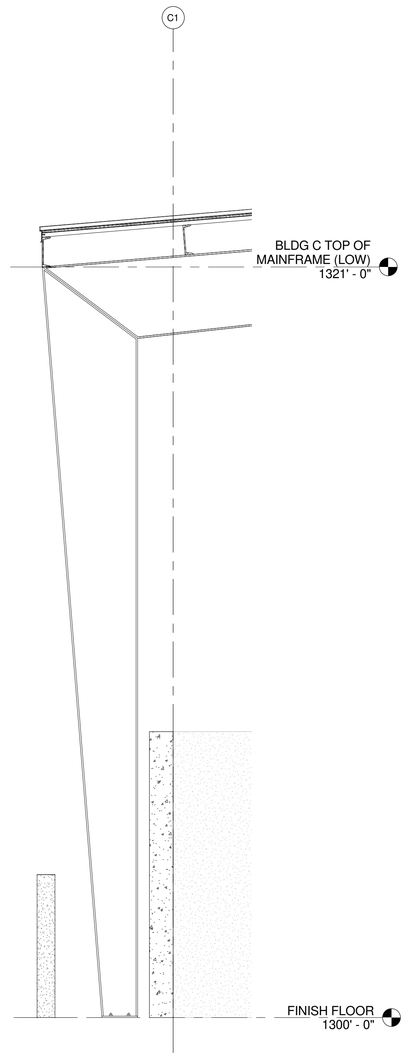
03 WALL SECTION

1/2" = 1'-0"



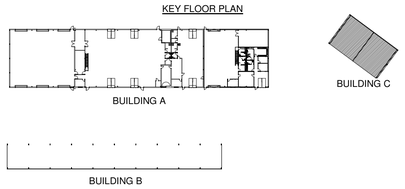
04 WALL SECTION

1/2" = 1'-0"



05 WALL SECTION

1/2" = 1'-0"



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SHEET TITLE

PHASE 2 BUILDING C SECTIONS

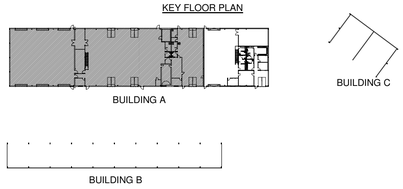
SHEET NUMBER

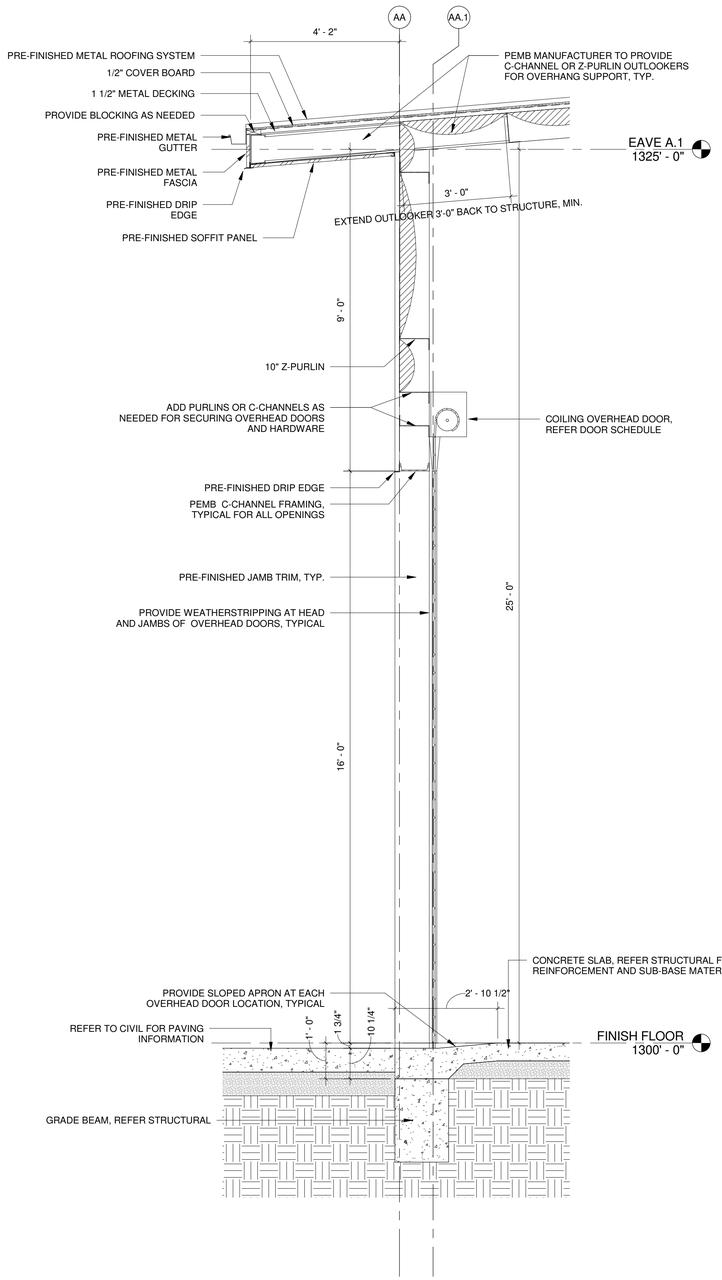
A512.2

PROJECT NUMBER

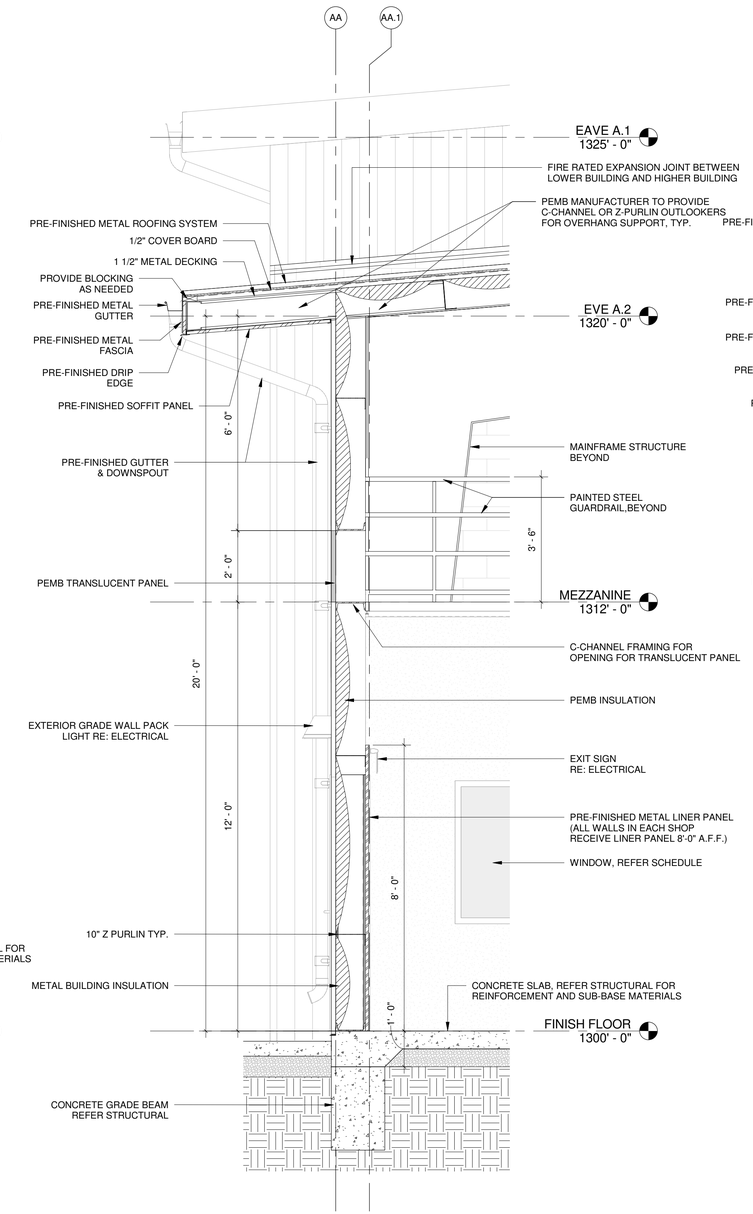
1707.3

KEY FLOOR PLAN

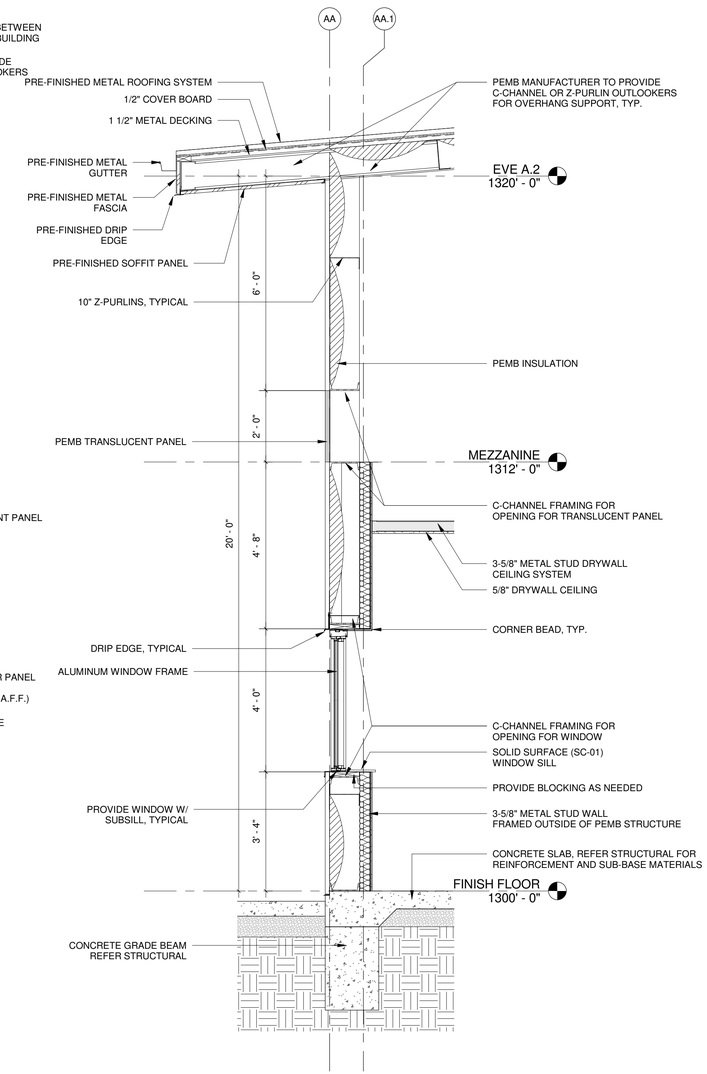




01 WALL SECTION
1/2" = 1'-0"



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



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

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SHEET TITLE

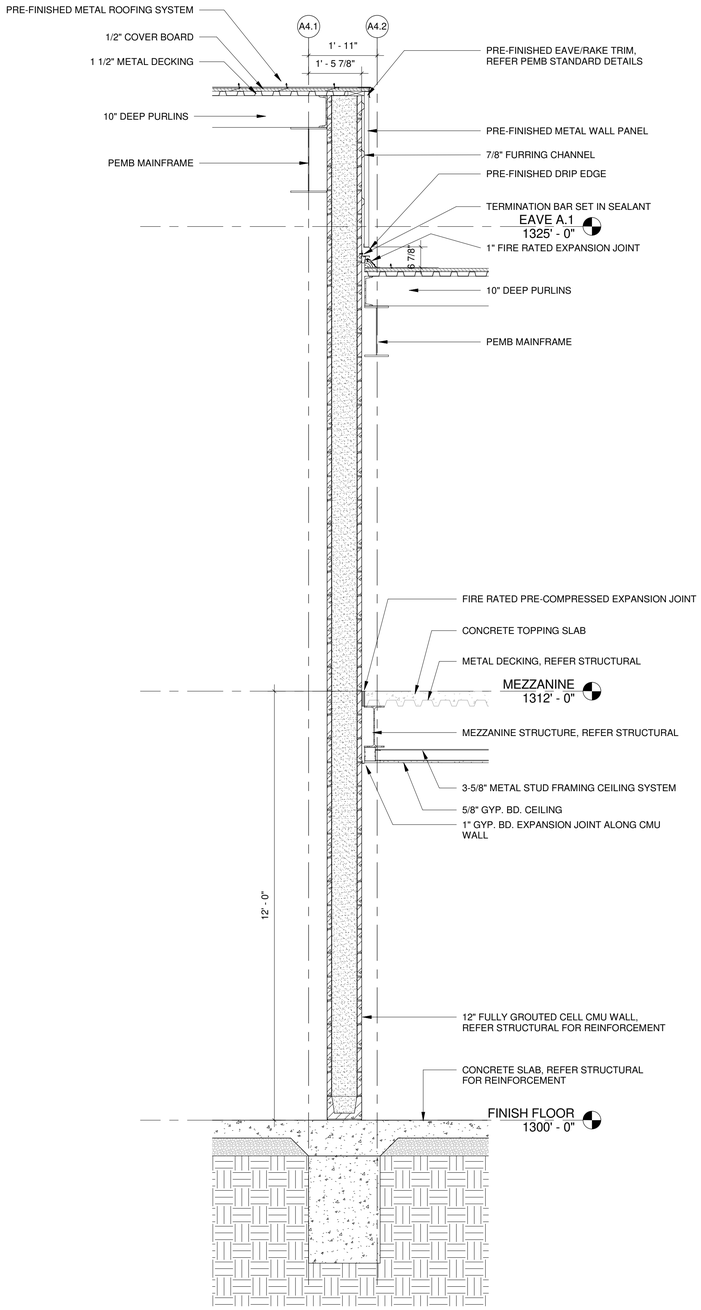
PHASE 1 BUILDING A WALL SECTIONS

SHEET NUMBER

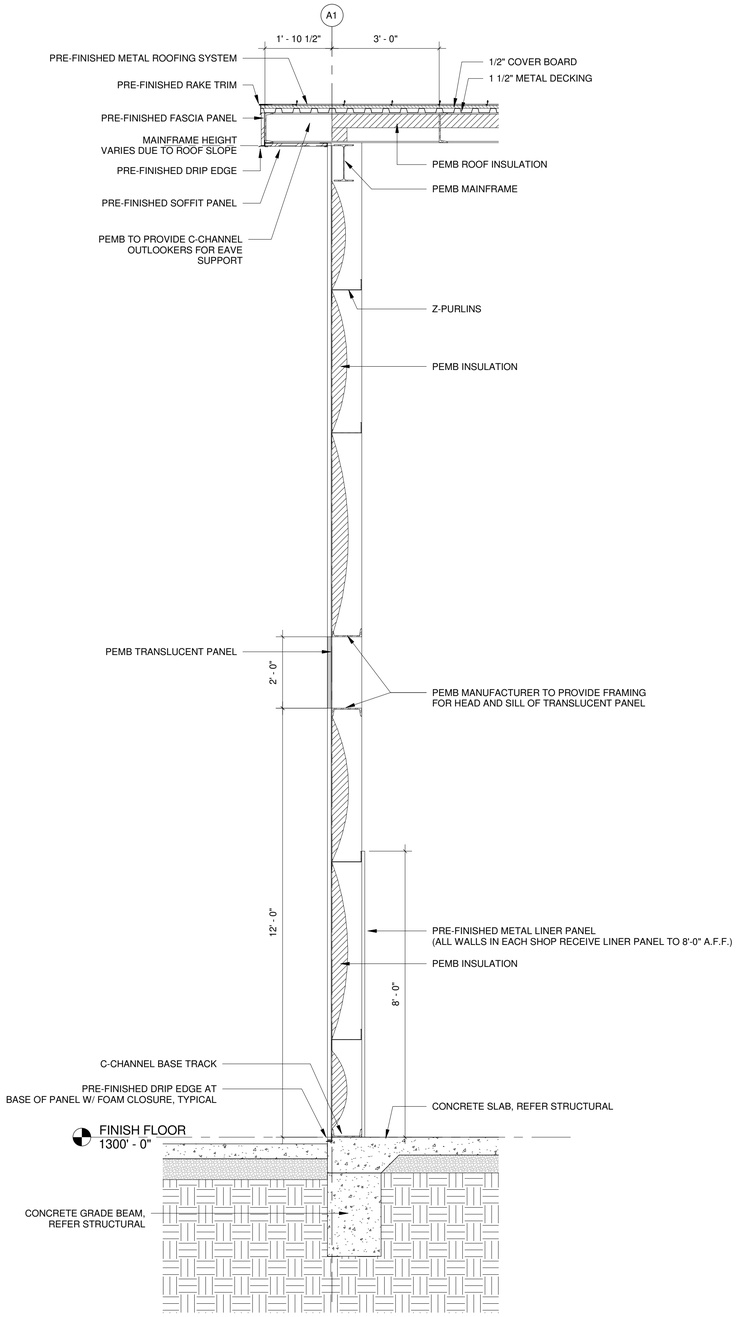
A521.1

PROJECT NUMBER

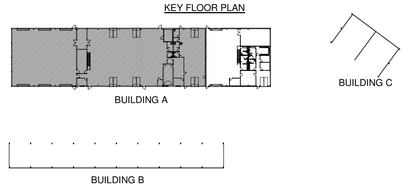
1707.3



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



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



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SHEET TITLE

PHASE 1 BUILDING A WALL SECTIONS

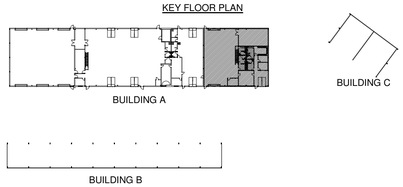
SHEET NUMBER

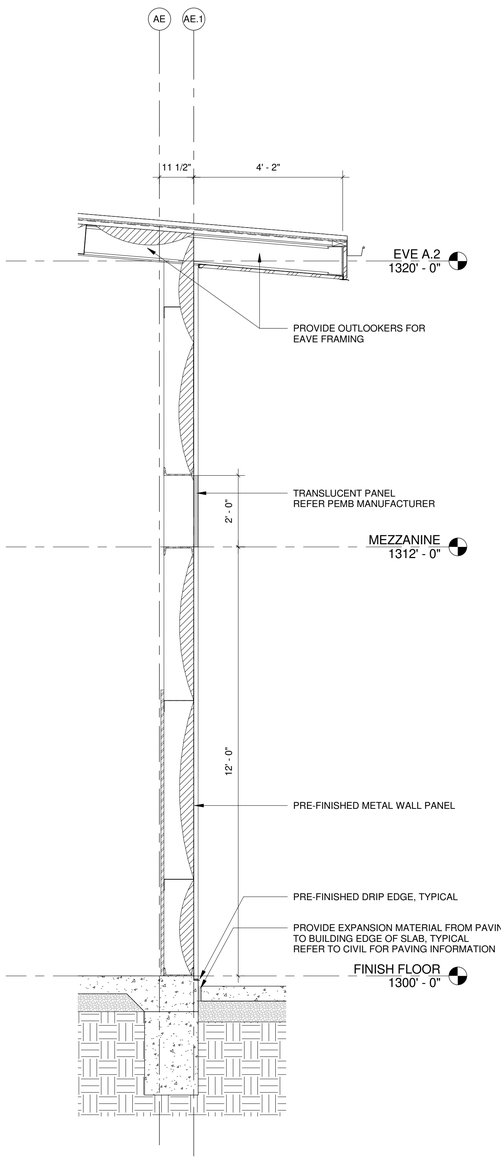
A521.2

PROJECT NUMBER

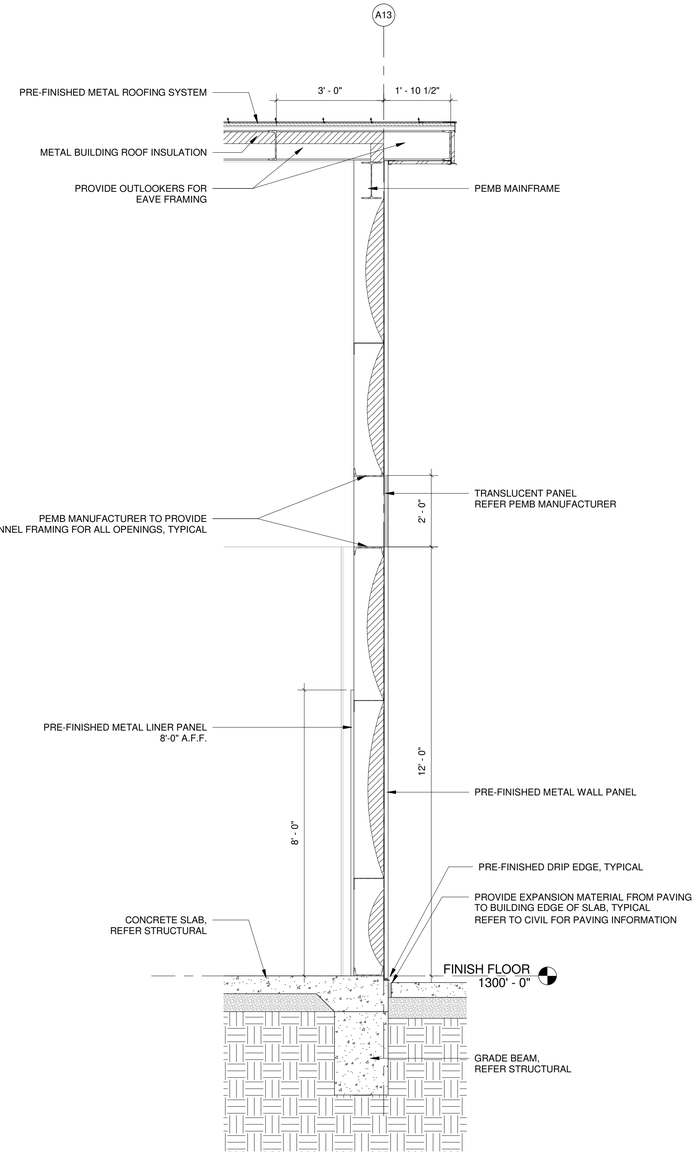
1707.3

KEY FLOOR PLAN





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



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

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SHEET TITLE

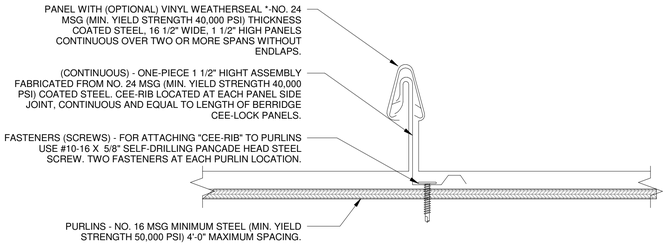
PHASE 2 BUILDNG A
WALL SECTIONS

SHEET NUMBER

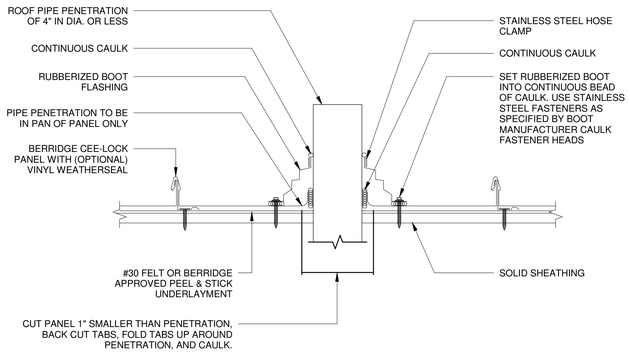
A522.1

PROJECT NUMBER

1707.3



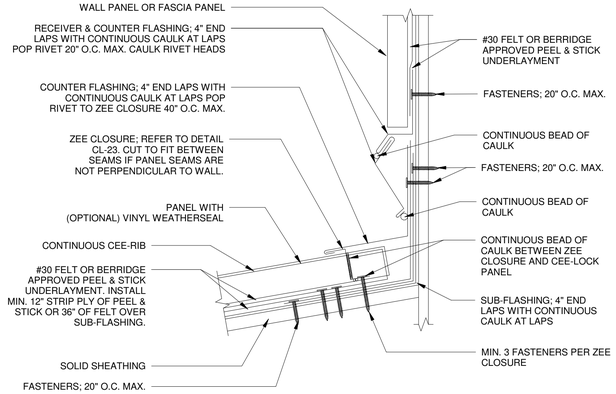
1 TYP. STANDING SEAM SECTION
1 1/2" = 1'-0"



GENERAL NOTES:

1. PIPE PENETRATION TO BE IN PAN OF PANEL ONLY.
2. FIELD CUT HOLE IN PANEL 1" LESS THAN DIA. OF STACK. BACK CUT HOLE AND BEND PANEL UP AROUDN STACK. CAULK CONTINUOUS.
3. IF PANELS ARE 30' OR LONGER, CUT HOLE TO ALLOW FOR THERMAL MOVEMENT.
4. IF PIP IS METAL, IT MUST BE PAINTED TO PREVENT RUST RUN-OFF FROM STAINING PANELS.

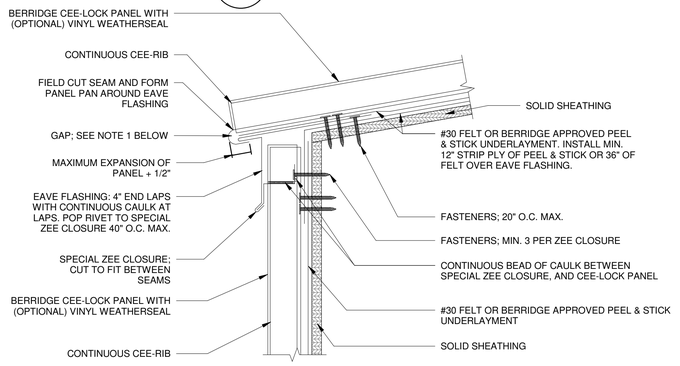
4 PIPE PENETRATION
1 1/2" = 1'-0"



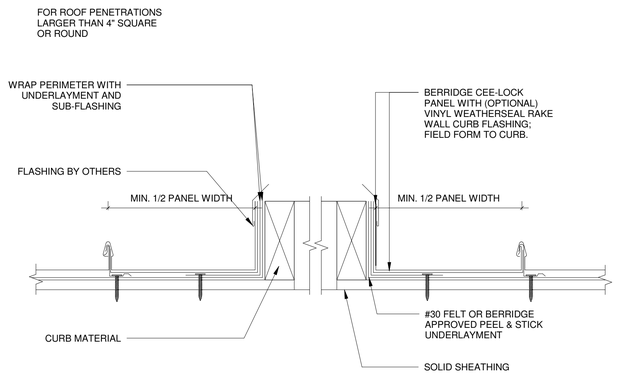
GENERAL NOTES:

1. SOLID SHEATHING TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.
2. REFERENCE BERRIDGE'S WEBSITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE AND SPACING. (REFERENCE INSTALLATION INSTRUCTIONS AND LOAD CHARTS FOR MIN. FASTENER REQUIREMENTS.)

2 HEAD WALL DETAIL
1 1/2" = 1'-0"



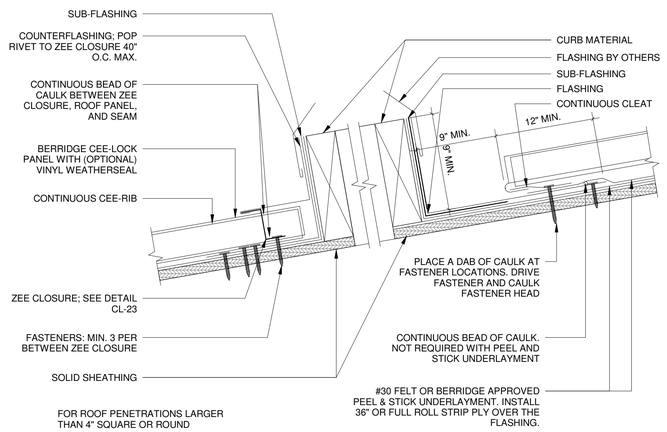
5 ROOF TO FASCIA
1 1/2" = 1'-0"



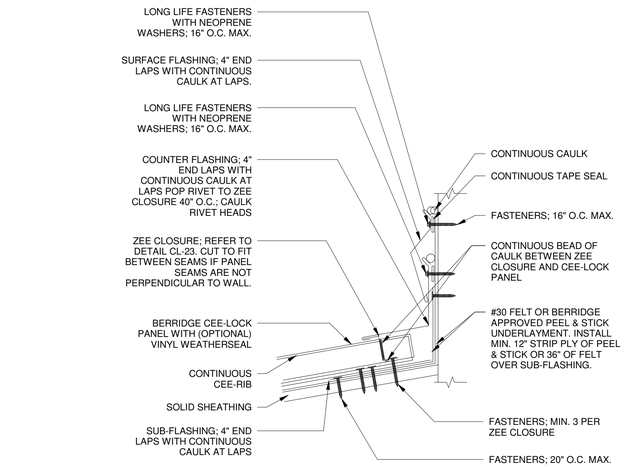
GENERAL NOTES:

1. DO NOT RUN A CONTINUOUS BEAD OF CAULK IN CLEAT OR UNDER CLEAT.
2. SOLID SHEATHING TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.
3. REFERENCE BERRIDGE'S WEBSITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES CONSULT BERRRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE AND SPACING. (REFERENCE INSTALLATION INSTRUCTIONS AND LOAD CHARDS FOR MIN. FASTENER REQUIREMENTS).

7 SQUARE PENETRATION SECTION
1 1/2" = 1'-0"



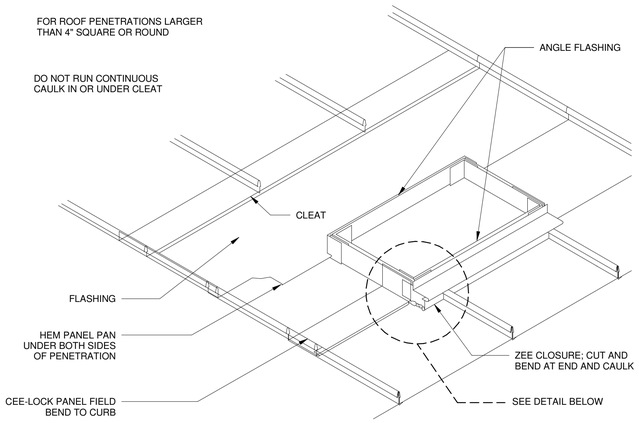
8 SQUARE PENETRATION SECTION
1 1/2" = 1'-0"

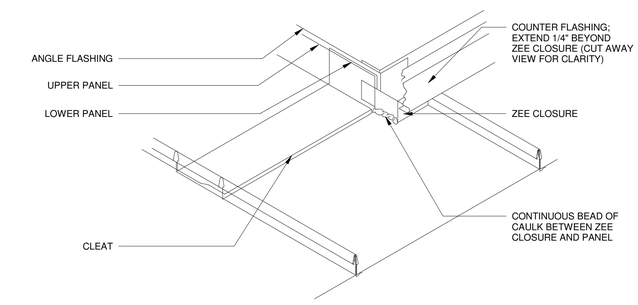


GENERAL NOTES:

1. SOLID SHEATHING TO MEET ENGINEERING AND ARCHITECTURAL SPECIFICATIONS MINIMUM REQUIREMENTS, REFERENCE INSTALLATION INSTRUCTIONS.
2. REFERENCE BERRIDGE'S WEBSITE FOR APPROVED UNDERLAYMENT AND CAULK TYPES. CONSULT BERRIDGE MANUFACTURING'S ENGINEERING DEPARTMENT REGARDING FASTENER TYPE AND SPACING. (REFERENCE INSTALLATION INSTRUCTIONS AND LOAD CHARTS FOR MIN. FASTENER REQUIREMETNS).

3 HEAD WALL DETAIL
1 1/2" = 1'-0"





SQUARE PENETRATION
ISOMETRIC
OPEN FRAMING AND SOLID SUBSTRATE
CL-84

6 SQUARE PENETRATION ISOMETRIC
1 1/2" = 1'-0"

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04.30.2021

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CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS

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SHEET TITLE

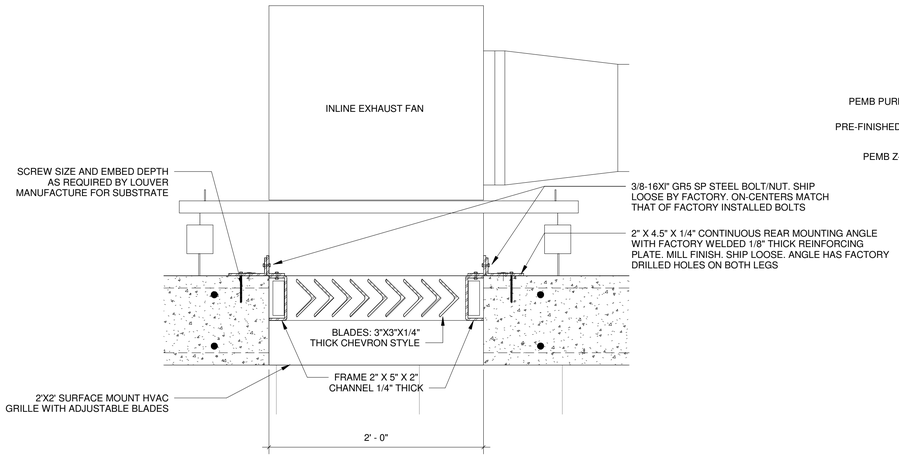
ROOF VERTICAL DETAILS

SHEET NUMBER

A610

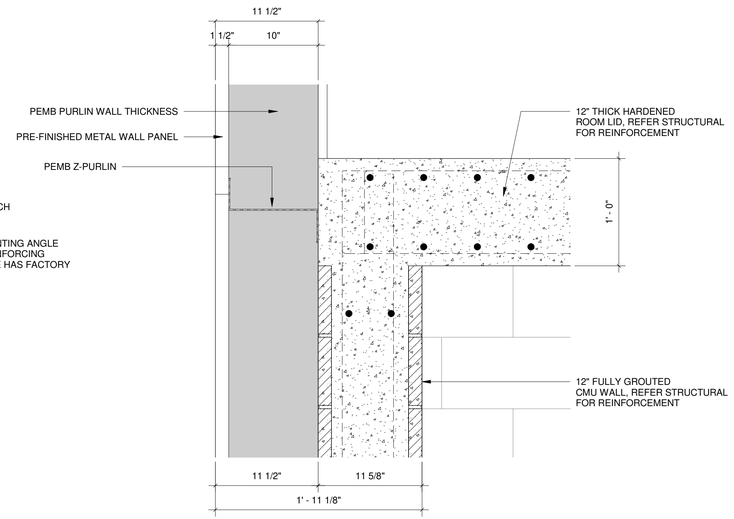
PROJECT NUMBER

1707.3



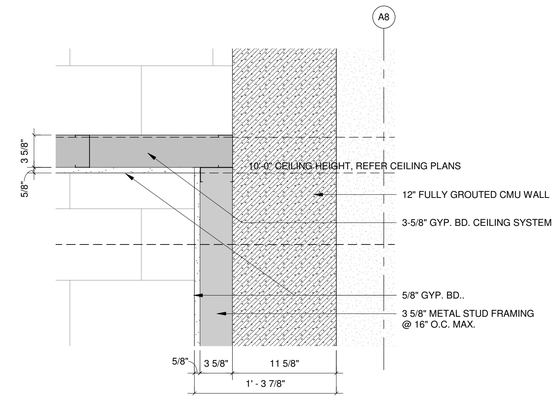
01 BREAKROOM LOUVER DETAIL

1 1/2" = 1'-0"



02 BREAKROOM CEILING DETAIL

1 1/2" = 1'-0"



3 DRYWALL CEILING DETAIL

1 1/2" = 1'-0"

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SHEET TITLE

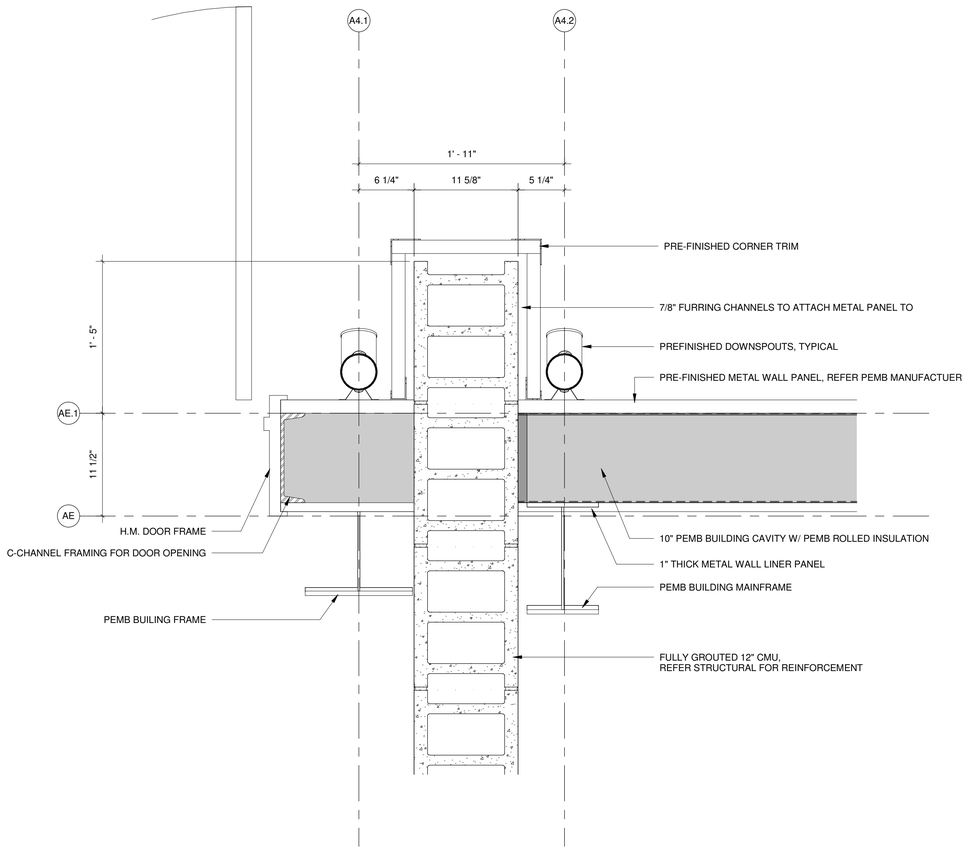
PHASE 1 VERTICAL SECTION DETAILS

SHEET NUMBER

A611

PROJECT NUMBER

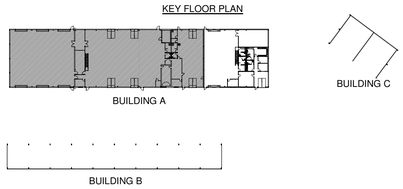
1707.3



1 FIRE RATED CMU WALL PLAN DETAIL

1 1/2" = 1'-0"

KEY FLOOR PLAN



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SHEET TITLE

PHASE 1 PLAN DETAILS

SHEET NUMBER

A620

PROJECT NUMBER

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ROOM SCHEDULE PHASE 1

NO.	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	MILLWORK NORTH	MILLWORK EAST	MILLWORK SOUTH	MILLWORK WEST	CEILING	REMARKS
100	LARGE VEHICLE MAINTENANCE SHOP	SC-01	-	LP-01	LP-01	PT-01	LP-01						
101	OFFICE	SC-01	RB-01	PT-01	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
102	PARTS ROOM	SC-01	RB-01	PT-01	PT-02	PT-02	PT-02						
103	FABRICATION SHOP	SC-01	RB-01	PT-01	PT-02	PT-02	PT-02						
104	FIRE RISER	SC-01	RB-01	PT-02	PT-02	PT-01	PT-02						
105	FLEET MAINTENANCE SHOP	SC-01	RB-01	PT-02	LP-01	PT-02	LP-01						NO RB-01 ON EAST & WEST WALLS
106	OIL STORAGE	SC-01	-	PT-01	PT-01	PT-01	PT-01						
107	LOCKER ROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
108	RESTROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
109	MECHANICAL	SC-01	RB-01	PT-02	PT-02	PT-02	PT-01					GYP. BD	PAINTED PT-03
110	BREAK ROOM	SC-01	RB-01	PT-02	PT-01	PT-01	PT-01	PLAM-01, SS-01				GYP. BD	
111	BUILDING MAINTENANCE SHOP	SC-01	RB-01	PT-02	LP-01	LP-01	LP-01						NO RB-01 ON EAST, WEST & SOUTH WALLS
112	JANITOR	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
113	IT ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
114	LOCKER ROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
115	RESTROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
116	OFFICE	SC-01	RB-01	PT-01	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
117	OFFICE	SC-01	RB-01	PT-01	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
201	STORAGE	SC-01	RB-01	PT-01	LP-01	-	LP-01						

ROOM SCHEDULE PHASE 2

NO.	ROOM NAME	FLOOR	BASE	WALL NORTH	WALL EAST	WALL SOUTH	WALL WEST	MILLWORK NORTH	MILLWORK EAST	MILLWORK SOUTH	MILLWORK WEST	CEILING	REMARKS
118	STREETS AND DRAINAGE SHOP	SC-01	RB-01	MP-01	LP-01	PT-02	LP-01						NO RB-01 ON EAST, WEST & NORTH WALLS
119	SIGN SHOP & STORAGE	SC-01	RB-01	PT-02	LP-01	LP-01	PT-02						
120	WOMENS LOCKER ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
121	WOMEN'S RESTROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
122	MENS LOCKER ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
123	MEN'S RESTROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
124	OFFICE	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
125	BREAK ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
126	SANITARY SHOP	SC-01	RB-01	PT-02	PT-02	LP-01	LP-01						RB-01 ON ALL GYP. BD. WALLS
127	WOMENS LOCKER ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
128	WOMEN'S RESTROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
129	MENS LOCKER ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
130	MEN'S RESTROOM	SC-01	TB-01	WT-01	WT-01	WT-01	WT-01					GYP. BD	PAINTED PT-03
131	STORAGE	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
132	OFFICE	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02					GYP. BD	PAINTED PT-03
133	BREAK ROOM	SC-01	RB-01	PT-02	PT-02	PT-02	PT-02	PLAM-01, SS-01	PLAM-01,S S-01			GYP. BD	PAINTED PT-03
202	STORAGE	SC-01	RB-01	-	PT-02	PT-02	PT-02						

BASE FINISH

MARK	PRODUCT	MANUFACTURER/SUPPLIER	COLOR/ MODEL #	NOTES
RB-01	RUBBER BASE	TARKETT	29 MOON ROCK	
TB-01	TILE BASE	DALTILE	COLOR WHEEL COLLECTION, FLAT TOP COVE BASE , COLOR: WHITE 0100	TYP @ TILE WALL

FLOOR FINISH

MARK	PRODUCT	MANUFACTURER/SUPPLIER	COLOR/MODEL #	NOTES
SC-01	SEALED CONCRETE			

WALL FINISH

MARK	PRODUCT	MANUFACTURER/ SUPPLIER	COLOR/MODEL #	NOTES
LP-01	PRE-FINISHED METAL LINER PANEL		WHITE, SMOOTH FINISH	
MP-01	EXISTING METAL PANEL			
PT-01	PAINTED CMU WALLS	SHERWIN WILLIAMS	SW 7015 REPOSE GRAY	
PT-02	PAINTED GYPSUM BOARD WALLS	SHERWIN WILLIAMS	SW 7015 REPOSE GRAY	
TR-01	BULLNOSE TILE TRIM	DALTILE	COLOR WHEEL COLLECTION, 6X6 WHITE 0100 BULLNOSE	
WT-01	WALL TILE	DALTILE	COLOR WHEEL COLLECTION, 6X6 WHITE 0100	EPOXY GROUT, RUNNING BOND INSTALLATION

CEILING FINISH

MARK	PRODUCT	MANUFACTURER/SUPPLIER	COLOR/MODEL #	NOTES
GYP. BD	GYPSUM BOARD CEILING			PAINTED PT-03
PT-03	CEILING PAINT	SHERWIN WILLIAMS	SW 7007 CEILING BRIGHT WHITE	

MILLWORK FINISH

MARK	PRODUCT	MANUFACTURER/SUPPLIER	COLOR/MODEL #	NOTES
PLAM-01	PLASTIC LAMINATE	WILSONART	7911-60 MANITOBA MAPLE	
SS-01	SOLID SURFACE	CORIAN	SILVER BIRCH	

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SHEET TITLE

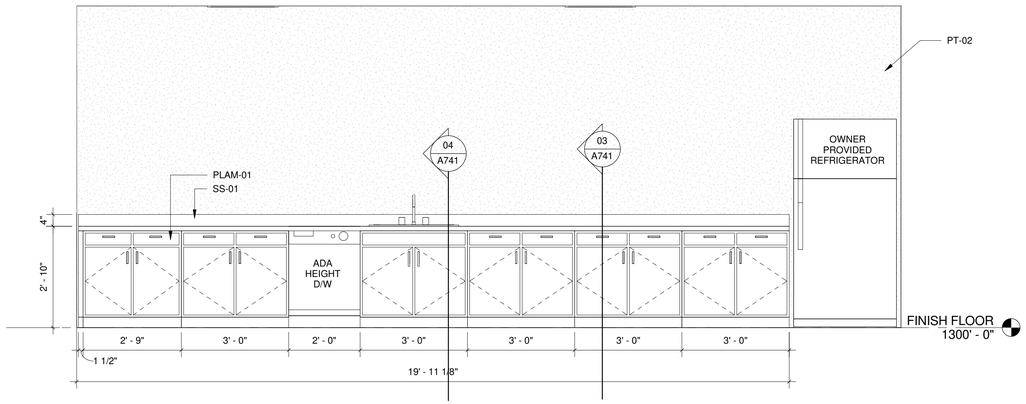
ROOM FINISH SCHEDULE

SHEET NUMBER

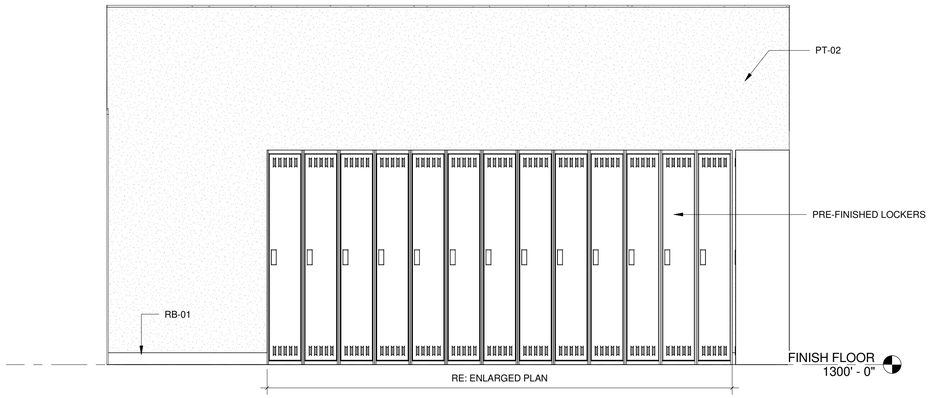
A710

PROJECT NUMBER

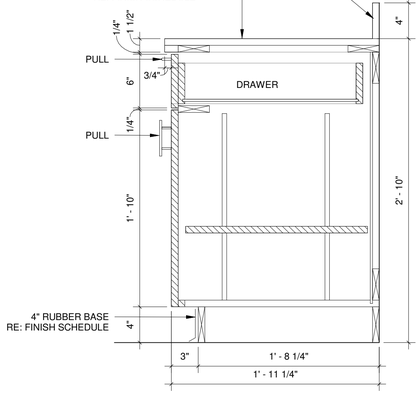
1707.3



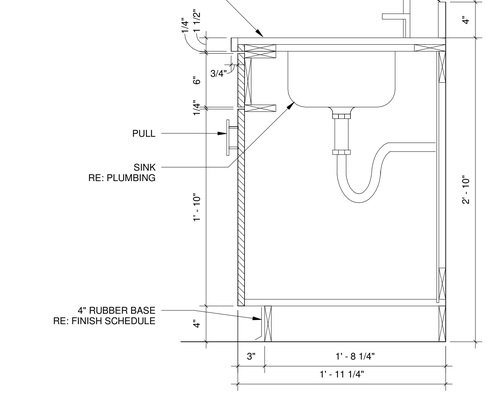
01 BREAKROOM MILLWORK ELEVATION
1/2" = 1'-0"



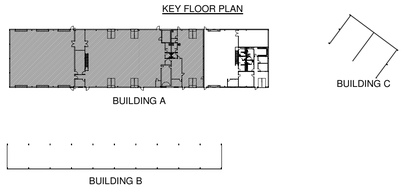
02 INTERIOR ELEVATION
1/2" = 1'-0"



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



04 MILLWORK DETAIL
1 1/2" = 1'-0"



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SHEET TITLE

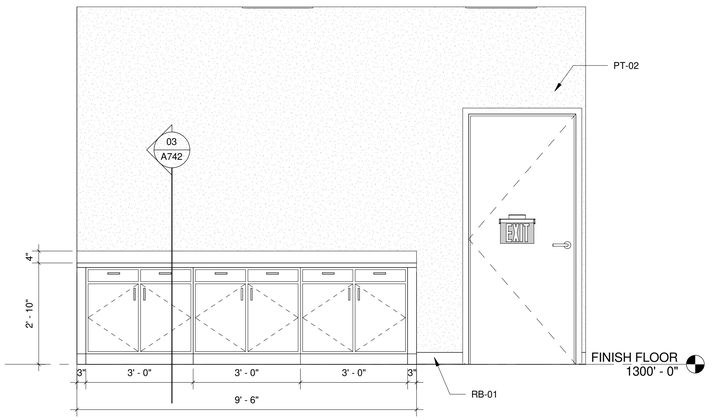
PHASE 1 INTERIOR ELEVATIONS AND DETAILS

SHEET NUMBER

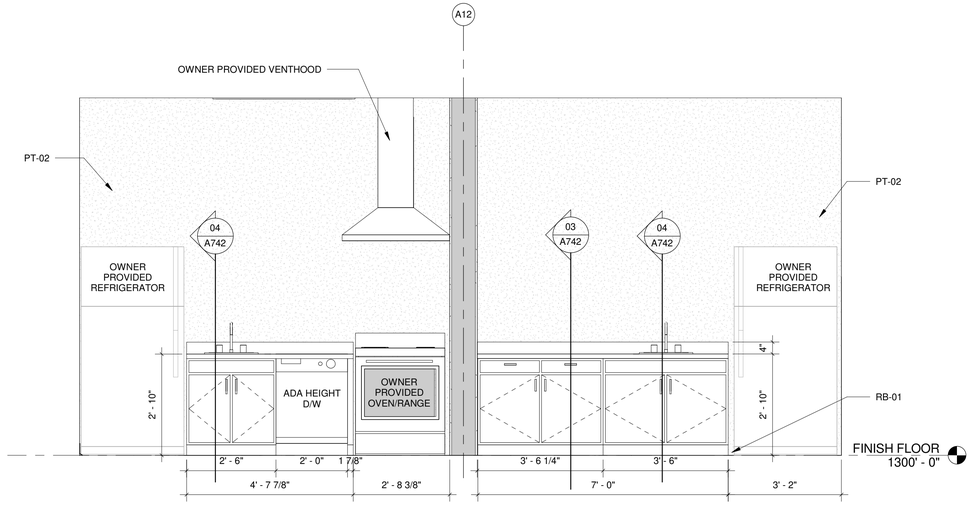
A741

PROJECT NUMBER

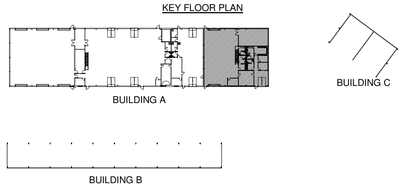
1707.3

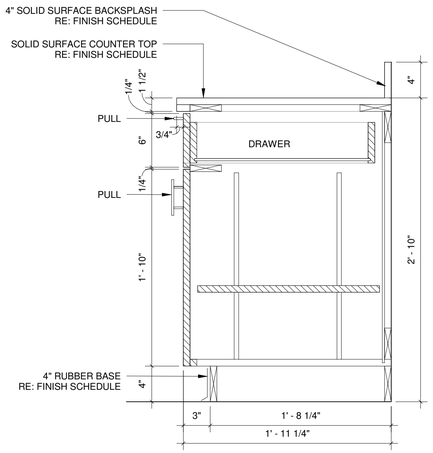


01 BREAKROOM MILLWORK ELEVATION
1/2" = 1'-0"

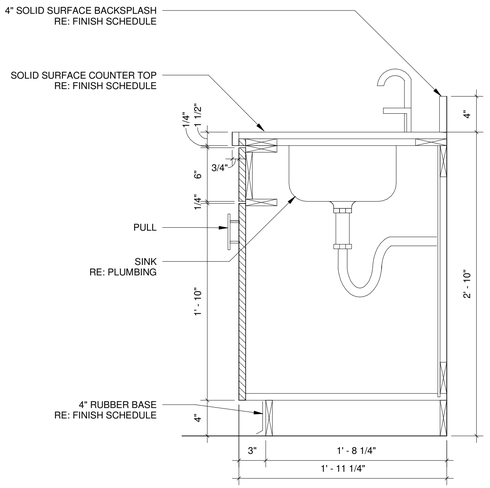


02 BREAKROOM MILLWORK ELEVATION
1/2" = 1'-0"





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



04 MILLWORK DETAIL
1 1/2" = 1'-0"

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SHEET TITLE

PHASE 2 INTERIOR ELEVATIONS AND DETAILS

SHEET NUMBER

A742

PROJECT NUMBER

1707.3

VALVE LEGEND

	DOUBLE CHECK VALVE ASSEMBLY
	RPZ, 3" AND LARGER
	RPZ, 2" AND SMALLER
	GLOBE VALVE
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	PLUG VALVE
	CHECK VALVE - SWING TYPE
VB	VACUUM BREAKER
	PRESSURE REDUCING VALVE
	GAS PRESSURE REGULATOR
	BALANCING VALVE
	ORIFICE VALVE
S	SUPERVISED VALVE
M	MOTOR OPERATED VALVE
	SOLENOID OPERATED VALVE
	TEMPERATURE / PRESSURE RELIEF VALVE
	ANGLE VALVE
	SAFETY RELIEF VALVE

PIPING LEGEND

	PIPE DROP
	PIPE RISE
	PIPE DROP @ 45°
	BRANCH TEE, TOP CONNECTION
	BRANCH TEE, BOTTOM CONNECTION
	CAP ON END OF PIPE
	PLUGGED TEE
	UNION
	FLANGED UNION
D	DIELECTRIC UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	WYE STRAINER
	PIPE GUIDE
	PIPE BREAK
	FLOOR DRAIN, AREA DRAIN, FLOOR SINK
	P-TRAP
	VALVE IN RISE OR DROP
P	PRESSURE GAUGE
P	PRESSURE GAUGE WITH GAUGE COCK
T	THERMOMETER WITH WELL
	THERMOMETER WELL
	AQUASTAT
	HOSE BIBB
	WALL HYDRANT
	VALVE IN YARD BOX
M	METER (NATURAL GAS, CITY WATER)

LINETYPE LEGEND

- - - - - - - - - - -	EXISTING - TO BE REMOVED
	EXISTING - TO REMAIN
– – – – – –	EXISTING - TO REMAIN - BELOW FLOOR
	NEW
– – – – –	NEW - BELOW FLOOR
—— – ——	DOMESTIC COLD WATER
—— – – ——	DOMESTIC HOT WATER SUPPLY
—— – – – ——	DOMESTIC HOT WATER RETURN
— ——— ———	STORM
- — — — — —	VENT
——— G ———	NATURAL GAS

PLUMBING ABBREVIATIONS

ABS	ACRYLONTRIDE BUTADIENE STYRENE
AC	ACCESS COVER
ACFM	ACTUAL CUBIC FEET PER MINUTE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ANT	ACID NEUTRALIZATION TANK
ATV	ATMOSPHERIC VENT
AWV	ACID WASTE VENT
AW	ACID WASTE
BFP	BACKFLOW PREVENTER
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BLR	BOILER
BOP	BOTTOM OF PIPE
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BWV	BACKWATER VALVE
C	CELSIUS (DEGREES)
CA	COMPRESSED AIR
CB	CATCH BASIN
CD	CONDENSATE DRAIN
CFCI	CONTRACTOR FURNISHED - CONTRACTOR INSTALLED
CFM	CUBIC FOOT PER MINUTE
CI	CAST IRON
CKV	CHECK VALVE
CLG	CEILING
CO	CLEANOUT
COMB	COMBINATION
COP	CENTER OF PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CUP SINK
CSS	CLINICAL SERVICE SINK
CW	CITY WATER
DC	DOUBLE CHECK VALVE
DCW	DOMESTIC COLD WATER
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DHW-TEMP	DOMESTIC HOT WATER
DHWR-TEMP	DOMESTIC HOT WATER RETURN
DI	DEIONIZED WATER
DIA Ø	DIAMETER
DIWT	DEIONIZED WATER TANK
DR	DRAIN
DS	DOWNSPOUT
DT	DRAIN TILE
DTL	DETAIL
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DWR	DISHWASHER
DWS	DOMESTIC WATER SOFTENER
DWST	DOMESTIC WATER STORAGE TANK
DWV	DRAIN, WASTE & VENT
EA	EACH
EC	ELECTRICAL CONTRACTOR
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
EEW	EMERGENCY EYE WASH
EEWS	EMERGENCY EYE WASH / SHOWER
EWC	ELECTRIC WATER COOLER
EX (E)	EXISTING
F	FAHRENHEIT (DEGREES)
FA	FLAME ARRESTOR
FCO	FLOOR CLEANOUT

PLUMBING ABBREVIATIONS

FD	FLOOR DRAIN
FF	FINISHED FLOOR
FH	FLOOR HYDRANT
FOF	FUEL OIL FILL
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
FC	FIRE SUPPRESSION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FLOOR SINK
FT	FLUSH TANK
FV	FLUSH VALVE
GAL	GALLON
GCO	GROUND CLEANOUT
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GTC	GENERAL CONTRACTOR
GS	GALVANIZED STEEL
GW	GREYWATER
HB	HOSE BIBB
HD	HUB DRAIN
HP	HORSE POWER
HX	HEAT EXCHANGER
HYD	FIRE HYDRANT
I.D.	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES
INT	INTERCEPTOR (OIL, GREASE)
JP	JOCKEY PUMP
KEC	KITCHEN EQUIPMENT CONTRACTOR
LA	LABORATORY AIR
LAV	LAVATORY
LG	LABORATORY GAS
LP	LIQUID PROPANE
LT	LAUNDRY TRAY
LW	LABORATORY WASTE
LWV	LABORATORY WASTE VENT
MANUF	MANUFACTURER
M	METER (WATER, NATURAL GAS)
MA	MEDICAL AIR
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MH	MANHOLE
MHC	MANHOLE COVER
MIN	MINIMUM
MSB	MOP SERVICE BASIN
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
NIC	NOT IN CONTRACT
NG-PRESS	NATURAL GAS
NG-HP	NATURAL GAS - HIGH PRESSURE
NG-IM	NATURAL GAS - INTERMEDIATE PRESSURE
NG-LP	NATURAL GAS - LOW PRESSURE
NG-MP	NATURAL GAS - MEDIUM PRESSURE
NPT	NATIONAL PIPE THREAD
NPW	NON-POTABLE WATER
NTS	NOT TO SCALE
O.D.	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
P	PUMP
PD	PLANTER DRAIN
PH	POST HYDRANT
PI	PRESSURE INDICATOR

PLUMBING ABBREVIATIONS

PR	PROPANE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	PLASTER TRAP
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE
PVDF	POLYVINYLIDENE FLUORIDE
PW	PROCESS WASTE
PWHS	PACKAGE WATER HEATER SYSTEM
RCP	RECIRCULATION PUMP
RD	ROOF DRAIN
RO	REVERSE OSMOSIS WATER
ROR	REVERSE OSMOSIS WATER RETURN
ROS	REVERSE OSMOSIS WATER SUPPLY
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RV	RELIEF VALVE
SAN	SANITARY WASTE
SANV	SANITARY WASTE VENT
SC	SHOWER CONTROLLER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SD	SHOWER DRAIN
SDR	STANDARD DIMENSION RATIO
SES	SEWAGE EJECTOR SYSTEM
SG	SPECIALTY GAS
SH	SHOWER HEAD / MODULE
SHT	SHEET
SK	SINK
SOL	SOLENOID VALVE
SP	SUMP PUMP
SS	STAINLESS STEEL
SSD	SECONDARY STORM DRAIN
SSK	SERVICE SINK
SST	SECONDARY STORM
ST	STORM
STM	STEAM
SW	SOFT WATER
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD (IN FEET)
TI	TEMPERATURE INDICATOR
TK	TANK
TMV	THERMOSTATIC MIXING VALVE
TOP	TOP OF PIPE
TP	TRAP PRIMER
TW-TEMP	TEMPERED WATER
TWR-TEMP	TEMPERED WATER RETURN
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W /	WITH
WB	WALL BOX
WC	WATER CLOSET
WCO	WALL CLEANOUT
WF	WASH FOUNTAIN
WFU	WATER FIXTURE UNIT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
WWS	WELL WATER SUPPLY
YD	YARD DRAIN
YH	YARD HYDRANT

PROJECT GENERAL NOTES:

A. "GENERAL NOTES" APPLY TO ALL DRAWINGS ISSUED FOR THIS PROJECT. "DRAWING NOTES" APPLY ONLY TO THE SHEETS ON WHICH THEY APPEAR. THE WORD "PROVIDE" MEANS "FURNISH AND INSTALL".

B. THE LEGEND SHEET IS GENERAL IN NATURE AND NOT ALL ITEMS SHOWN APPLY TO THIS PROJECT.

C. ALL WORK TO BE PERFORMED AND INSTALLED PER THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, LAWS, REGULATIONS, INSPECTION AGENCIES, UTILITY COMPANIES, AND ANY OTHER AUTHORITIES HAVING JURISDICTION. REFER TO ARCHITECTURAL DRAWINGS FOR FEDERAL ADA FIXTURE REQUIREMENTS (IF ANY).

D. COORDINATE WORK WITH OTHER TRADES AND CONSTRUCTION MANAGER TO AVOID INTERFERENCES BEFORE BEGINNING WORK. DRAWINGS ARE DIAGRAMMATIC REPRESENTATIONS OF THE WORK. DO NOT SCALE THE DRAWINGS TO DETERMINE EXACT LOCATIONS, DISTANCES, OR SIZES; TAKE FIELD MEASUREMENTS TO MAKE THESE DETERMINATIONS.

E. CONTRACTOR MUST AVOID SEVERANCE OR DAMAGE TO BURIED SERVICE LINES. SHOULD DAMAGE OCCUR, REPAIRS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

PLUMBING GENERAL NOTES:

A. COORDINATE THE EXACT LOCATIONS OF FLOOR DRAINS WITH THE APPLICABLE EQUIPMENT CONTRACTORS, FLOOR CONTRACTOR, AND GENERAL CONTRACTOR (IF APPLICABLE) OR ARCHITECT PRIOR TO BEGINNING WORK.

B. FIELD COORDINATE SLEEVE LOCATIONS IN STRUCTURE.

C. LOCATE AND ESTABLISH ALL INVERT ELEVATIONS IN THE FIELD.

D. REFER TO PIPING SCHEMATICS, AND OTHER DETAILS FOR ARRANGEMENT OF PIPING AND FOR SIZES NOT SHOWN ON PLANS. IN ANY CASE WHERE A PIPE SIZE SHOWN ON A PLAN SHEET DIFFERS FROM THAT SHOWN IN A SCHEMATIC, SECTION, OR DETAIL, USE THE LARGER OF THE TWO SIZES SHOWN.

E. INSTALL PIPING IN PIPE CHASES, ABOVE CEILINGS, AND IN STUD WALLS. INSTALL HORIZONTAL MAINS AND BRANCHES AS HIGH AS PRACTICAL. MAKE OFFSETS IN PIPING TO AVOID INTERFERENCE AND CONTACT WITH WORK OF OTHER TRADES WHETHER SHOWN ON DRAWINGS OR NOT. DO NOT INSTALL LIQUID CARRYING PIPING IN OUTSIDE WALLS OR IN ANY OTHER AREAS SUBJECT TO FREEZING TEMPERATURES.

F. SLOPE ALL GRAVITY PIPING OF SIZES 3" DIAMETER AND LARGER AT 1/8"/FT MINIMUM, AND SIZES 2 1/2" AND SMALLER AT 1/4"/FT MINIMUM WHERE NOT OTHERWISE INDICATED.

G. USE FITTINGS FOR ALL PIPE CHANGES IN DIRECTION AND SIZE AND BRANCH CONNECTIONS. EXTRUDED TEE CONNECTIONS AND BUSHINGS SHALL NOT BE USED.

H. INSTALL VALVES IN ACCESSIBLE LOCATIONS AND IN SUCH A MANNER AS TO BE EASILY OPERABLE. PROVIDE ISOLATION VALVES ON ALL BRANCHES OFF MAIN PIPE.

I. FOR ALL WATER SUPPLY PIPES, INSTALL MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT THE LOW POINTS OF THE PIPE. FOR EQUIPMENT WITH DRAINS, PROVIDE DRAIN PIPE FROM THE EQUIPMENT TO A FLOOR DRAIN OR MOP SINK.

J. FURNISH ACCESS PANELS TO GENERAL CONTRACTOR FOR INSTALLATION IN WALLS OR CEILING. ACCESS PANELS ARE FOR ALL EQUIPMENT AND SPECIALTIES SUCH AS VALVES, WATER HAMMER ARRESTORS, OR OTHER DEVICES WHICH MAY REQUIRE ACCESS FOR MAINTENANCE OR OPERATION. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF THE ACCESS PANELS.

K. INSTALL CLEANOUTS PER CODE.

L. PROVIDE AUTOMATIC TRAP PRIMERS AND TYPE "K" COPPER PIPING TO ALL TRENCH DRAIN, FLOOR DRAIN, FLOOR SINK, AND HUB DRAIN TRAPS, AND OTHER TRAPS REQUIRING PRIMING WHETHER SHOWN ON DRAWINGS OR NOT.

TAP ARCHITECTURE

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PROFESSIONAL ENGINEER
OWEN D. GWIN
24940
4/30/21
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PROJECT

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CITY of MOORE OKLAHOMA 1893

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

PLUMBING LEGENDS & NOTES

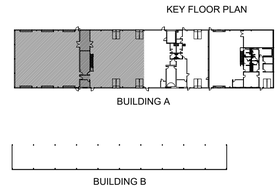
SHEET
NUMBER

P001

PROJECT
NUMBER

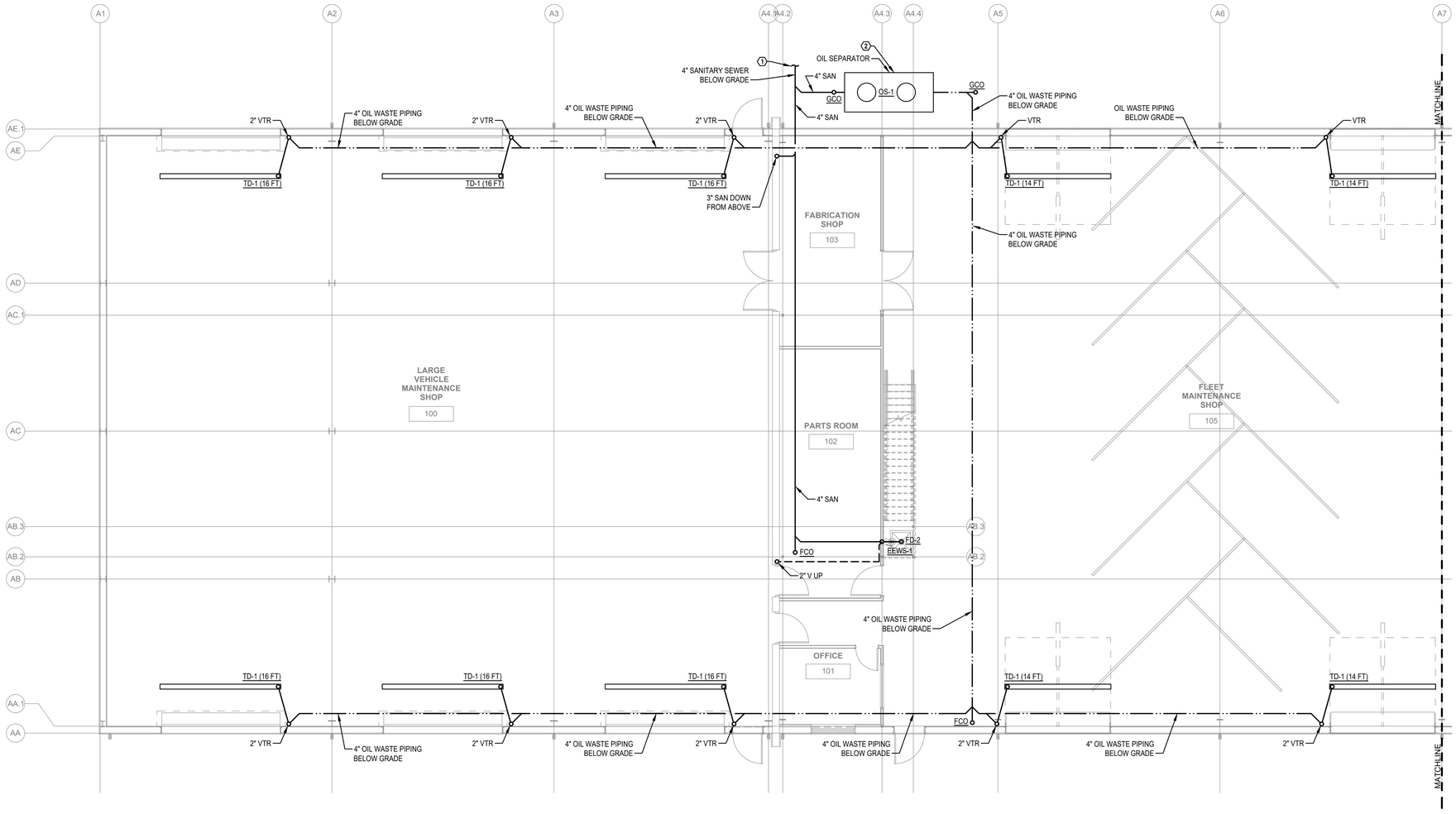
1707.3

KEY FLOOR PLAN



DRAWING NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. OIL SEPARATOR OS-1 BELOW GRADE. HIGHLAND TANK MODEL 2000 TYPE HTC OR EQUIVALENT. 2000 GALLON CAPACITY, 200 GPM FLOW RATE, (2) 24" MANWAYS.



1 PHASE 1 PLBG WASTE & VENT PLAN - NORTH

SCALE: 1/8"=1'-0"

NORTH

TAP ARCHITECTURE

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SEAL

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ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

PHASE 1 BLDG A
PLBG WASTE & VENT
PLAN NORTH

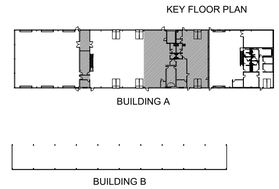
SHEET NUMBER

P211.1

PROJECT NUMBER

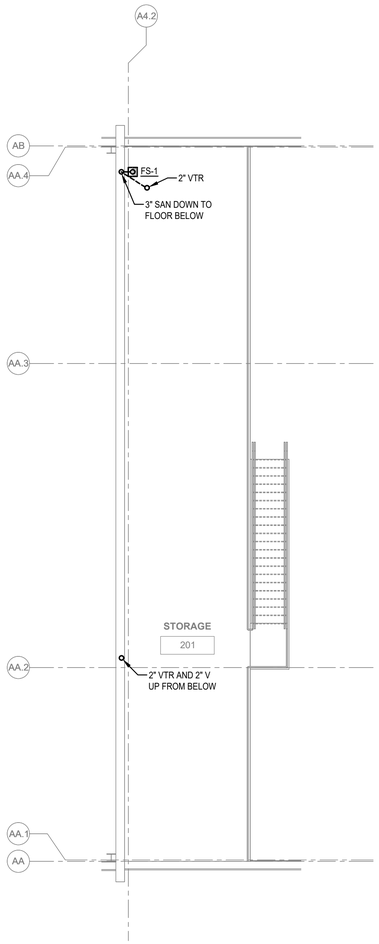
1707.3

KEY FLOOR PLAN

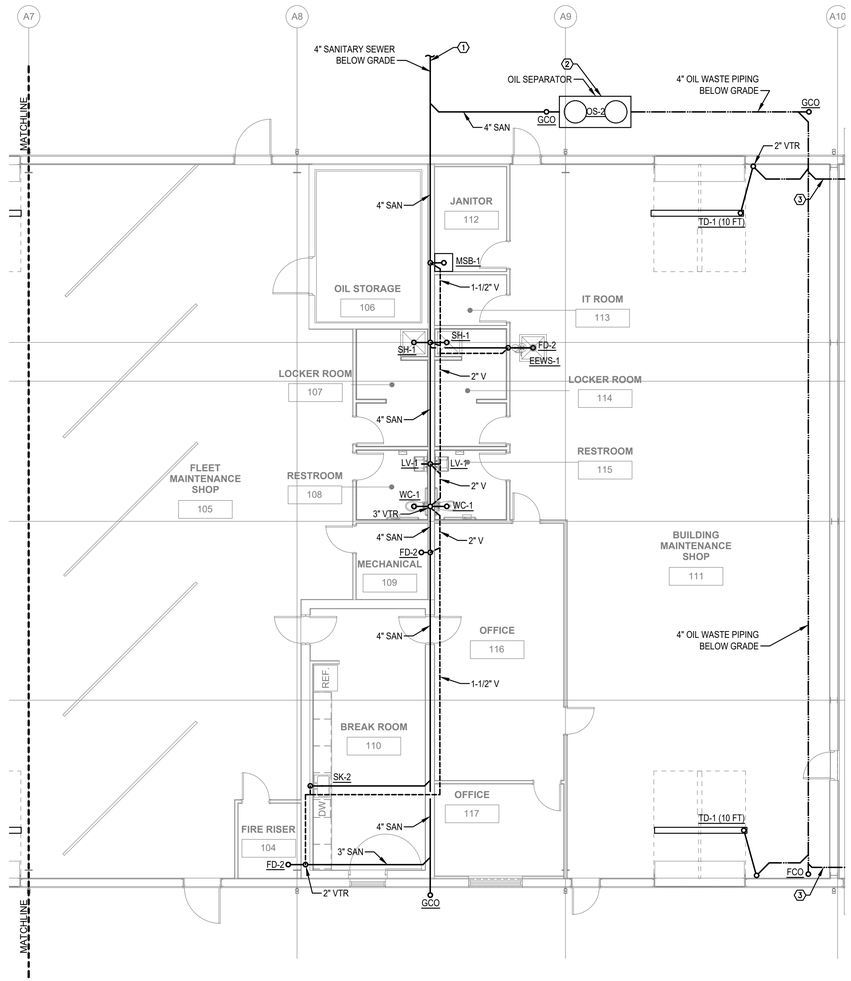


DRAWING NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. OIL SEPARATOR OS-2 BELOW GRADE. HIGHLAND TANK MODEL 550 TYPE HTC OR EQUIVALENT. 550 GALLON CAPACITY. 55 GPM FLOW RATE. (2) 18" MANWAYS.
3. EXTEND 4" OIL WASTE DRAIN BELOW FLOOR BEYOND EDGE OF PHASE 1 SLAB. CAP PIPING FOR FUTURE CONNECTION TO TRENCH DRAIN IN PHASE 2.



2 PHASE 1 PLBG WASTE & VENT PLAN - MEZZANINE
SCALE: 1/8"=1'-0"



1 PHASE 1 PLBG WASTE & VENT PLAN - SOUTH
SCALE: 1/8"=1'-0"

TAP ARCHITECTURE

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ISSUES
REVISIONS

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04.30.2021

SHEET TITLE

PHASE 1 BLDG A
PLBG WASTE & VENT
PLAN SOUTH

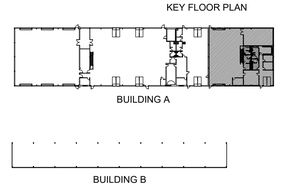
SHEET NUMBER

P211.2

PROJECT NUMBER

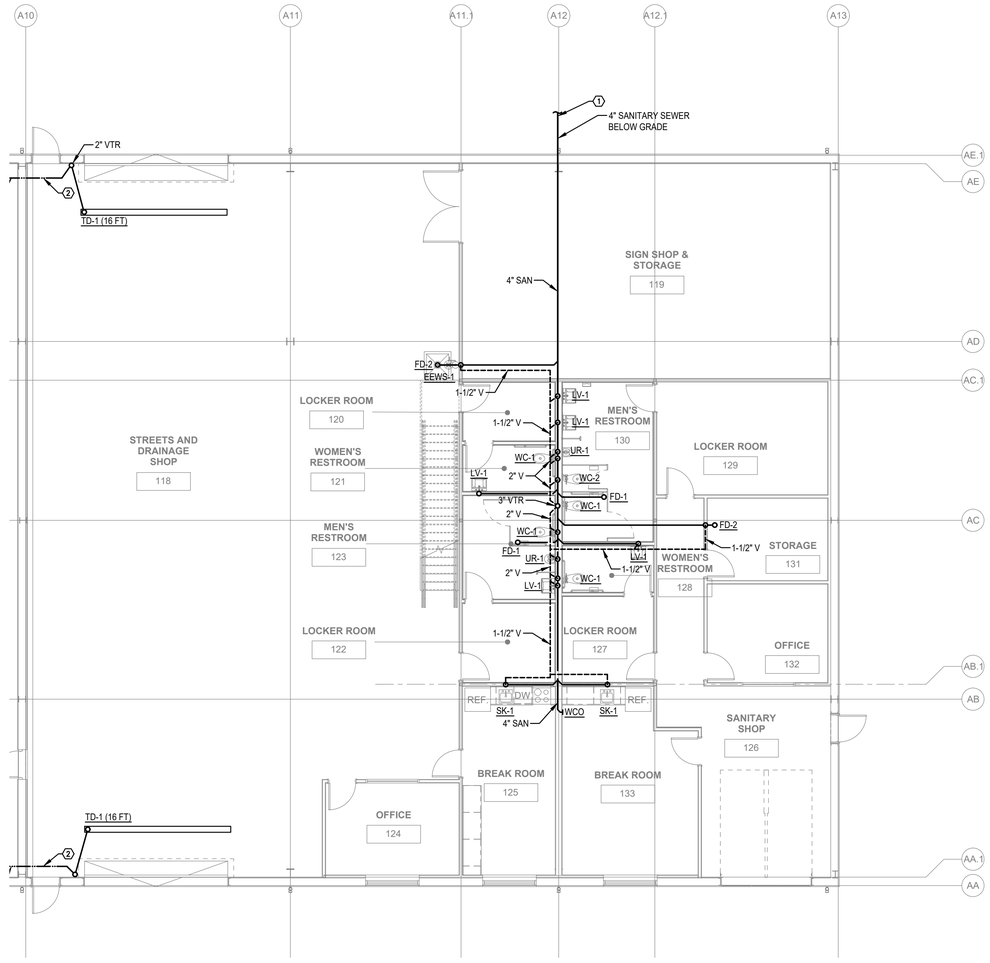
1707.3

KEY FLOOR PLAN



DRAWING NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. CONNECT NEW 4" OIL WASTE DRAIN TO 4" STUB OUT FROM BUILDING FROM PHASE 1.



1 PHASE 2 PLBG WASTE & VENT PLAN
SCALE: 1/8"=1'-0"

NORTH

TAP ARCHITECTURE

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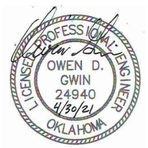
SEAL



PROJECT

CITY OF MOORE
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512 NW 27TH STREET
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ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

PHASE 2 BLDG A PLBG WASTE & VENT PLAN

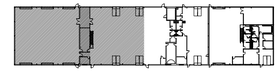
SHEET NUMBER

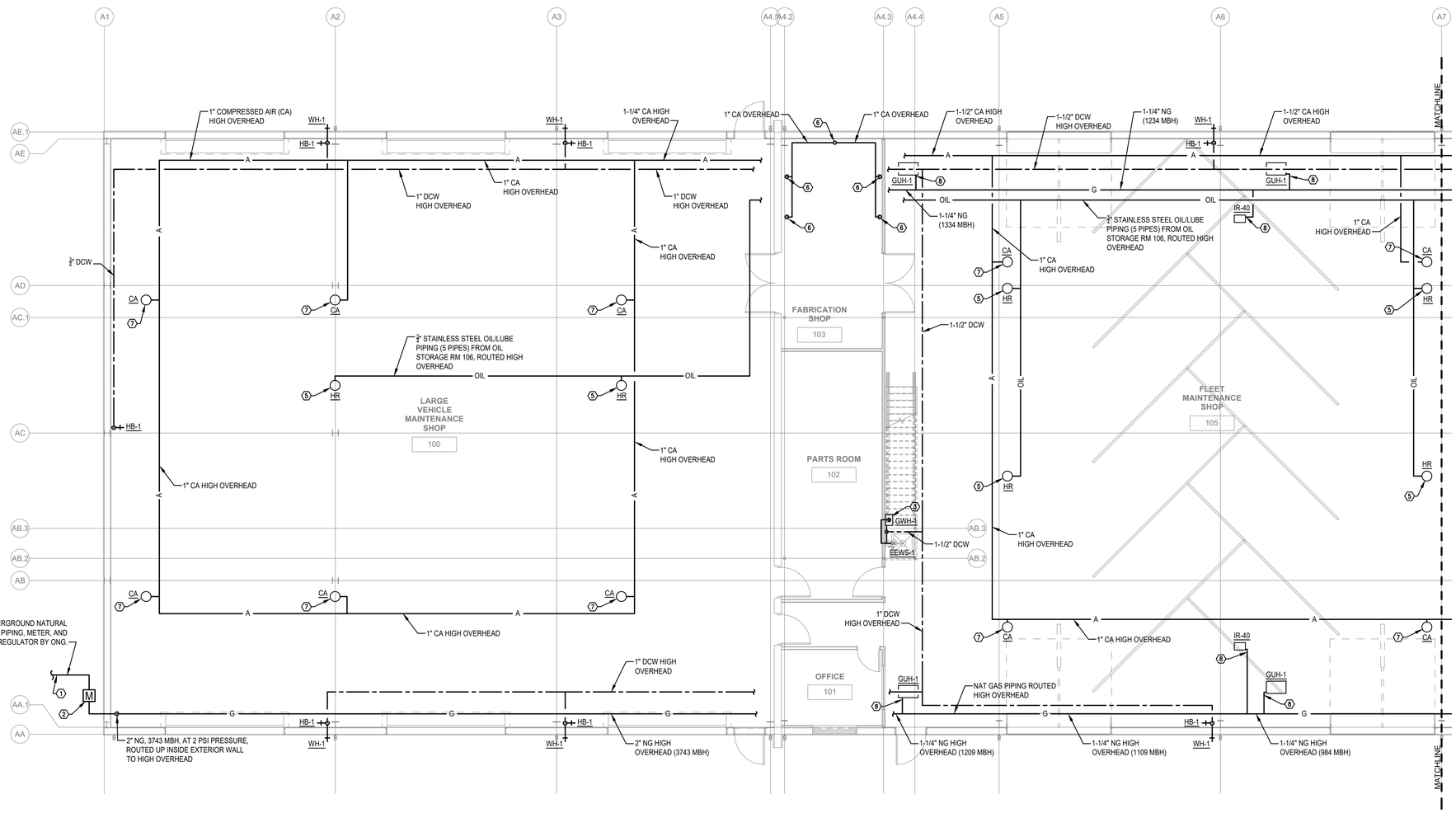
P212

PROJECT NUMBER

1707.3

KEY FLOOR PLAN





1 PHASE 1 PLBG WATER & GAS PLAN - NORTH

SCALE: 1/8"=1'-0"

NORTH

DRAWING NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. GAS METER AND PRESSURE REGULATOR BY ONG. TOTAL GAS LOAD TO BUILDING IS 3743 MBH AT 2 PSI PRESSURE. (2859 MBH PHASE 1 + 884 MBH PHASE 2)
3. GAS WATER HEATER (GWH-1). SEE FIXTURE SCHEDULE ON SHEET P601. PROVIDE PVC COMBUSTION AIR AND VENT PIPING UP TO CONCENTRIC VENT ON ROOF. PROVIDE SHUT-OFF VALVE, 2-PSI -10" W.C. PRESSURE REGULATOR, SEDIMENT TRAP, AND UNION FOR NATURAL GAS CONNECTION.
4. COMPRESSED AIR PIPING UP TIGHT TO WALL TO HIGH OVERHEAD AT ROOF STRUCTURE. MOUNT AIR COMPRESSOR ON 4" CONCRETE EQUIPMENT PAD.
5. PROVIDE HOSE REELS SUSPENDED OVERHEAD AT 15 FT AFF FOR HYDRAULIC OIL, (2) MOTOR OILS, GEAR LUBE, AND CHASSIS GREASE (5 REELS TOTAL). PROVIDE SHUT-OFF VALVE FOR ISOLATION ON EACH CONNECTION TO HOSE REEL SUPPLY. HOSE REELS SHALL BE LINCOLN HEAVY DUTY MODEL 82206 OR EQUIVALENT W/ MODEL 85641 UNIVERSAL MOUNTING KIT FOR MINIMUM 6 REELS WITH 50 FT HOSE ON EACH. COORDINATE EXACT LOCATION OF REELS WITH OWNER AND CONSTRUCTION MANAGER.
6. ¾" COMPRESSED AIR PIPING DROP AT WALL. SEE DETAIL 7/P5.01.
7. ¾" COMPRESSED AIR PIPING DROP TO SINGLE HOSE REEL SUSPENDED AT 15 FT AFF. PROVIDE SHUT-OFF VALVE FOR ISOLATION AT CONNECTION TO HOSE REEL SUPPLY. PROVIDE FRL FILTER, REGULATOR, PRESSURE GAUGE, AND LUBRICATOR BETWEEN SHUT-OFF VALVE AND HOSE REEL CONNECTION. HOSE REEL SHALL BE LINCOLN HEAVY DUTY MODEL 82206 OR EQUIVALENT WITH 50 FT HOSE. COORDINATE EXACT LOCATION OF REELS WITH OWNER AND CONSTRUCTION MANAGER.
8. NATURAL GAS BRANCH PIPING TO APPLIANCE. SEE EQUIPMENT SCHEDULES ON DRAWING M601 FOR APPLIANCE GAS LOADS. PROVIDE NATURAL GAS SHUT-OFF VALVE, 2 PSI - 10" W.C. PRESSURE REGULATOR, SEDIMENT TRAP, AND UNION AT APPLIANCE CONNECTION.

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

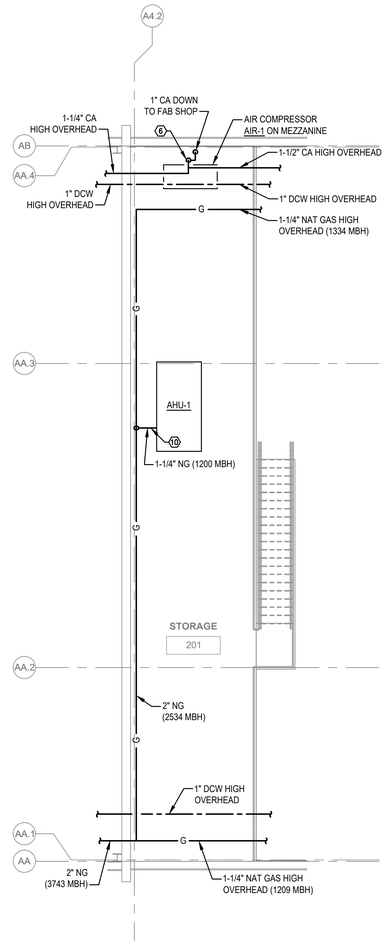
PHASE 1 BLDG A PLBG WATER & GAS PLAN NORTH

SHEET NUMBER

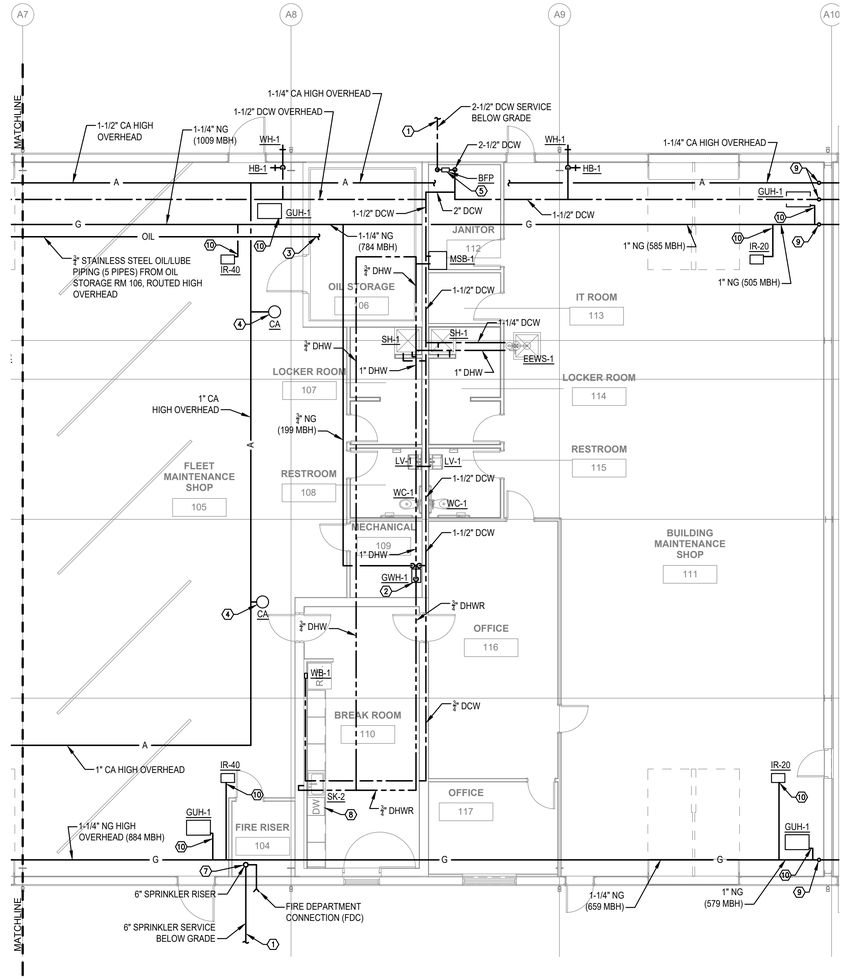
P221.1

PROJECT NUMBER

1707.3

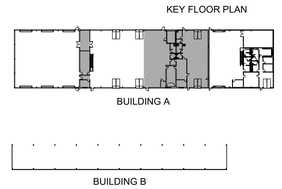


2 PHASE 1 PLBG WATER & GAS PLAN - MEZZANINE
SCALE: 1/8"=1'-0"



1 PHASE 1 PLBG WATER & GAS PLAN - SOUTH
SCALE: 1/8"=1'-0"

KEY FLOOR PLAN



DRAWING NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION.
2. GAS WATER HEATER (GWH-1). SEE FIXTURE SCHEDULE ON SHEET P601. PROVIDE PVC COMBUSTION AIR AND VENT PIPING UP TO CONCENTRIC VENT ON ROOF. PROVIDE SHUT-OFF VALVE, 2-PSI -10" W.C. PRESSURE REGULATOR, SEDIMENT TRAP, AND UNION FOR NATURAL GAS CONNECTION.
3. CONNECT NEW STAINLESS STEEL DISTRIBUTION PIPING FOR HYDRAULIC OIL, MOTOR OIL, GEAR LUBE, AND CHASSIS GREASE (5 TOTAL) TO LUBRICATION DISTRIBUTION SYSTEM EQUIPMENT PER MANUFACTURER RECOMMENDATIONS. COORDINATE WITH OWNER AND CONSTRUCTION MANAGER REGARDING OIL SYSTEM REQUIREMENTS, INCLUDING PIPE & FITTING PRESSURE RATINGS.
4. ¾" COMPRESSED AIR PIPING DROP TO SINGLE HOSE REEL SUSPENDED AT 15 FT AFF. PROVIDE SHUT-OFF VALVE FOR ISOLATION AT CONNECTION TO HOSE REEL SUPPLY. PROVIDE FRL FILTER, REGULATOR, PRESSURE GAUGE, AND LUBRICATOR BETWEEN SHUT-OFF VALVE AND HOSE REEL CONNECTION. HOSE REEL SHALL BE LINCOLN HEAVY DUTY MODEL 82206 OR EQUIVALENT WITH 50 FT HOSE. COORDINATE EXACT LOCATION OF REELS WITH OWNER AND CONSTRUCTION MANAGER.
5. 2-1/2" REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER AT 24" AFF WITH AIR GAP FITTING. ROUTE ¾" DRAIN FROM AIR GAP FITTING TO FLOOR DRAIN.
6. COMPRESSED AIR PIPING UP TIGHT TO WALL TO HIGH OVERHEAD AT ROOF STRUCTURE. MOUNT AIR COMPRESSOR ON 4" CONCRETE EQUIPMENT PAD. AIR COMPRESSOR SHALL BE GARDNER DENVER MODEL L15 AIR STATION OR EQUIVALENT WITH 120 GAL RECEIVER (20 HP, 208V/3PH, SCREW COMPRESSOR, 89.4 CFM AT 100 PSI).
7. 6" FIRE SPRINKLER RISER INCLUDING BACKFLOW PREVENTER AND BRANCH TO FIRE DEPARTMENT CONNECTION (FDC).
8. UNDER-COUNTER DISHWASHER. CONNECT DHW AND DRAIN PIPING TO BREAK SINK FIXTURE PIPING BELOW COUNTER PER 2015 IPC.
9. PROVIDE SHUT-OFF VALVE AND CAP PIPING FOR FUTURE EXPANSION IN PHASE 2 AT THIS LOCATION.
10. NATURAL GAS BRANCH PIPING TO APPLIANCE. SEE EQUIPMENT SCHEDULES ON DRAWING M601 FOR APPLIANCE GAS LOADS. PROVIDE NATURAL GAS SHUT-OFF VALVE, 2 PSI - 10" W.C. PRESSURE REGULATOR, SEDIMENT TRAP, AND UNION AT APPLIANCE CONNECTION.

TAP ARCHITECTURE

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SEAL

PROJECT

CITY OF MOORE
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512 NW 27TH STREET
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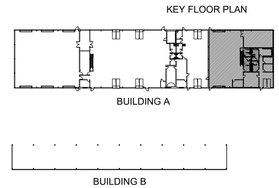
ISSUES
REVISIONS
100% ISSUE FOR BID
04.30.2021

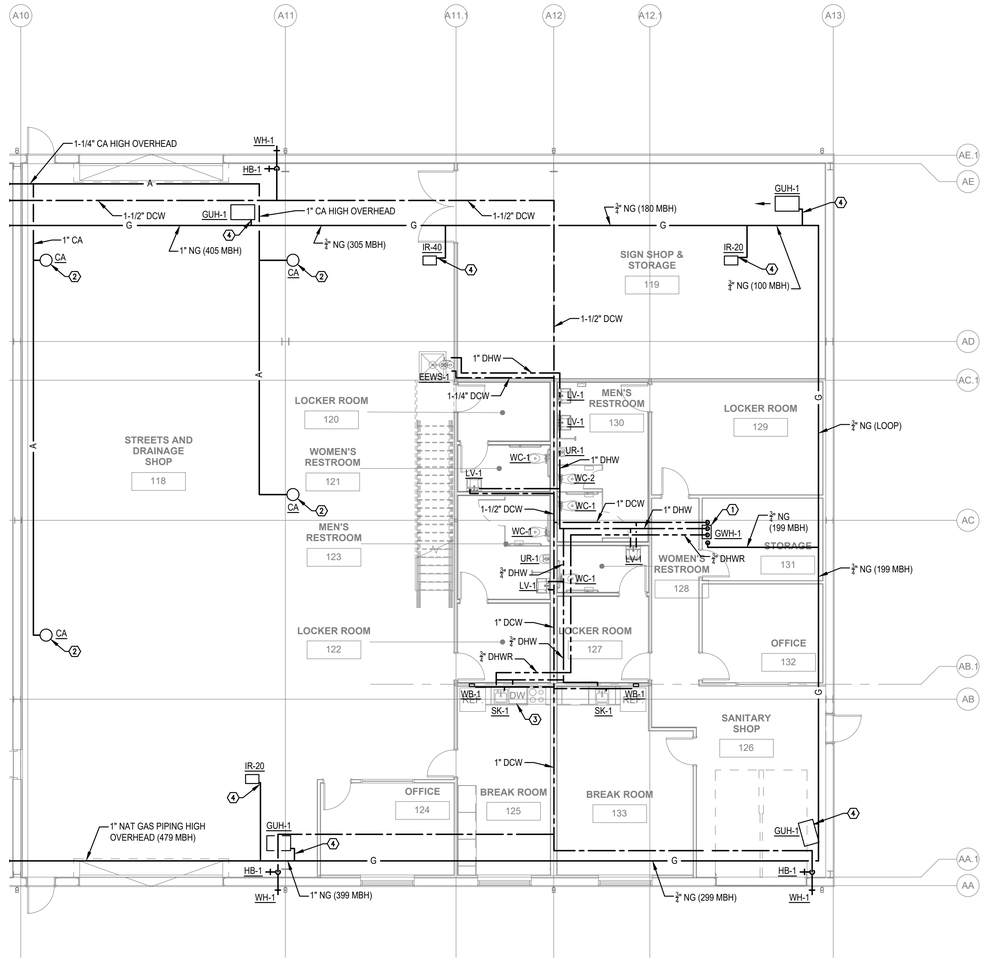
SHEET TITLE
PHASE 1 BLDG A PLBG WATER & GAS PLAN SOUTH

SHEET NUMBER
P221.2

PROJECT NUMBER
1707.3

KEY FLOOR PLAN





1 PHASE 2 PLBG WATER & GAS PLAN

SCALE: 1/8"=1'-0"

NORTH

DRAWING NOTES:

1. GAS WATER HEATER (GWH-1). SEE FIXTURE SCHEDULE ON SHEET P601. PROVIDE PVC COMBUSTION AIR AND VENT PIPING UP TO CONCENTRIC VENT ON ROOF. PROVIDE SHUT-OFF VALVE, 2-PSI -10" W.C. PRESSURE REGULATOR, SEDIMENT TRAP, AND UNION FOR NATURAL GAS CONNECTION.
2. ¾" COMPRESSED AIR PIPING DROP TO SINGLE HOSE REEL SUSPENDED AT 15 FT AFF. PROVIDE SHUT-OFF VALVE FOR ISOLATION AT CONNECTION TO HOSE REEL SUPPLY. PROVIDE FRL FILTER, REGULATOR, PRESSURE GAUGE, AND LUBRICATOR BETWEEN SHUT-OFF VALVE AND HOSE REEL CONNECTION. HOSE REEL SHALL BE LINCOLN HEAVY DUTY MODEL 82206 OR EQUIVALENT WITH 50 FT HOSE. COORDINATE EXACT LOCATION OF REELS WITH OWNER AND CONSTRUCTION MANAGER.
3. UNDER-COUNTER DISHWASHER. CONNECT DHW AND DRAIN PIPING TO BREAK SINK FIXTURE PIPING BELOW COUNTER PER 2015 IPC.
4. NATURAL GAS BRANCH PIPING TO APPLIANCE. SEE EQUIPMENT SCHEDULES ON DRAWING M601 FOR APPLIANCE GAS LOADS. PROVIDE NATURAL GAS SHUT-OFF VALVE, 2 PSI - 10" W.C. PRESSURE REGULATOR, SEDIMENT TRAP, AND UNION AT APPLIANCE CONNECTION.

TAP ARCHITECTURE

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SEAL

PROFESSIONAL ENGINEER
OWEN D. GWIN
24940
4/30/21
OKLAHOMA
LICENSED

PROJECT

CITY OF MOORE
PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1889

ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

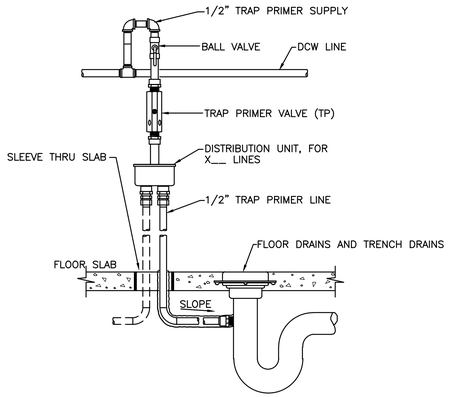
PHASE 2 BLDG A PLBG WATER & GAS PLAN

SHEET NUMBER

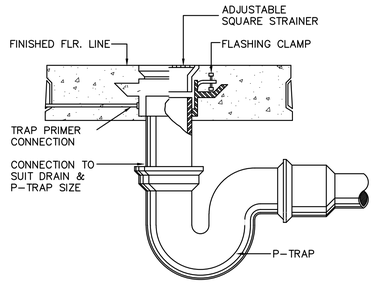
P222

PROJECT NUMBER

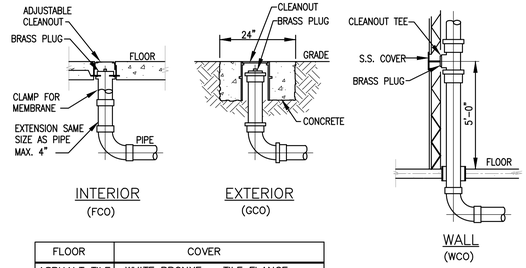
1707.3



4 TRAP PRIMER DETAIL
SCALE: NTS



3 FLOOR DRAIN DETAIL
SCALE: NTS



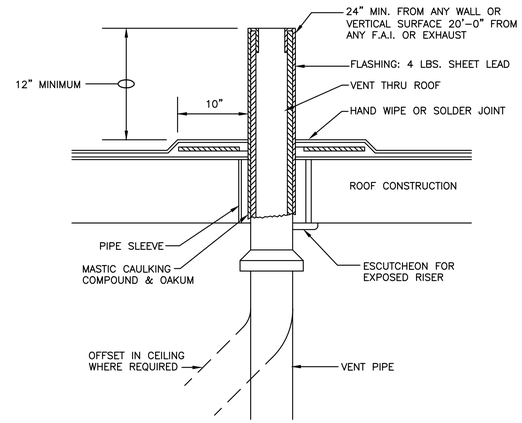
FLOOR	COVER
ASPHALT TILE	WHITE BRONXE – TILE FLANGE
CARPETED	WHITE BRONZE – MARKER
CONCRETE	CAST IRON
SYNTHETIC	WHITE BRONZE – 1-1/2"DIA.FLANGE
CERAMIC	SQUARE WHITE BRONZE
TERRAZZO	RECESSED WHITE BRONZE

CO INTERIOR

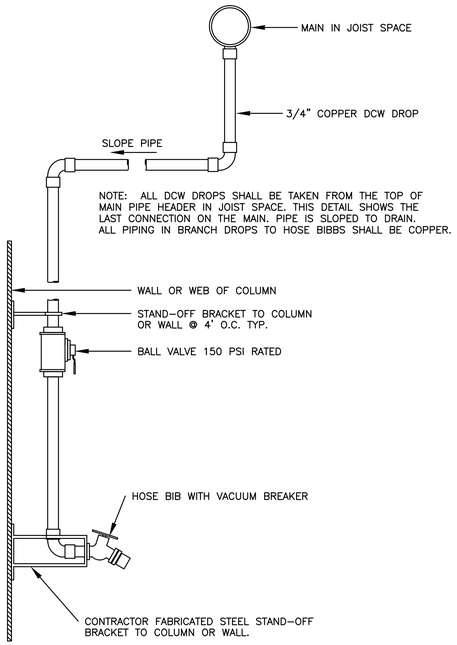
PROVIDE CLEANOUT AT EACH RIGHT ANGLE TURN AND (•) FT. C.C. ON STRAIGHT RUNS.

* 50 FT. FOR 2"ø AND SMALLER
* 100 FT. FOR 3"ø AND LARGER

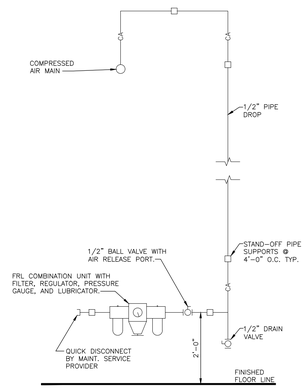
2 CLEANOUT DETAIL
SCALE: NTS



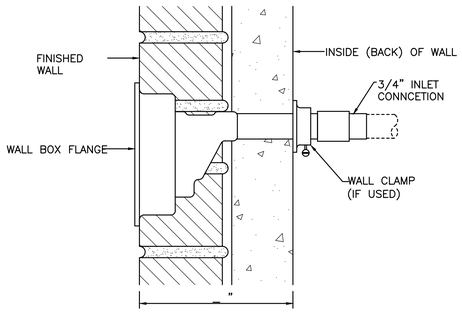
1 VENT THRU ROOF (VTR) DETAIL
SCALE: NTS



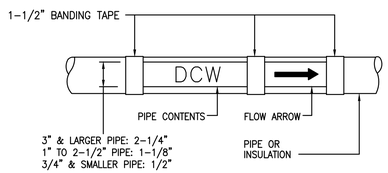
8 TYPICAL HOSE BIB DETAIL
SCALE: NTS



7 COMPRESSED AIR DROP AT WALL
SCALE: NTS



6 WALL HYRDANT DETAIL
SCALE: NTS



5 PIPE IDENTIFICATION DETAIL
SCALE: NTS

TAP ARCHITECTURE

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CITY OF MOORE
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512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1893

ISSUES
REVISIONS

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SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER

P501

PROJECT NUMBER

1707.3

PLUMBING FIXTURE SCHEDULE

NOTE: COORDINATE ALL FIXTURES WITH ARCHITECT.

TAG	DESCRIPTION	MANUF.	MODEL	PIPING CONNECTIONS	NOTES
WC-1	FLOOR MOUNTED VITREOUS CHINA WATER CLOSET - ADA HEIGHT	AMERICAN STANDARD MADERA FLOWISE	3043.001	1" CW, 4" S, 1-1/2" V	2, 4
	TOILET SEAT - SOFT CLOSE	BEMIS	1655C		
	FLUSH VALVE - 1.6 GPF	SLOAN ROYAL	111		
WC-2	FLOOR MOUNTED VITREOUS CHINA WATER CLOSET - STANDARD HEIGHT	AMERICAN STANDARD MADERA FLOWISE	2234.001	1" CW, 4" S, 1-1/2" V	2, 4
	TOILET SEAT - SOFT CLOSE	BEMIS	1655C		
	FLUSH VALVE - 1.6 GPF	SLOAN ROYAL	111		
UR-1	WALL MOUNTED VITREOUS CHINA URINAL - ADA HEIGHT	KOHLER - BARDON	K-4991-ETSS	3/4" CW, 3" S, 1-1/2" V	4, 8
	FLUSH VALVE - 1.0 GPF	SLOAN ROYAL	186-1		
UR-2	WALL MOUNTED VITREOUS CHINA URINAL - STANDARD HEIGHT	KOHLER - BARDON	K-4991-ETSS	3/4" CW, 3" S, 1-1/2" V	4, 8
	FLUSH VALVE - 1.0 GPF	SLOAN ROYAL	186-1		
LV-1	LAVATORY - WALL MOUNTED	AMERICAN STANDARD LUCERNE	0355.012	1/2" CW, 1/2" HW, 2" S, 1-1/4" V	1, 3, 4, 5, 8, 9
	FAUCET W/ METAL GRID STRAINER	DELTA	523LF-HDF		
SH-1	SHOWER - TILE LINER	SEE ARCH	-	1/2" CW, 1/2" HW, 2" S, 1-1/4" V	
	VACUUM BREAKER	DELTA	DU4900PK		
	SHOWER KIT	KOHLER	K9059-CP		
	SHOWER HOSE	KOHLER	K9514-CP		
	PRESSURE BALANCING VALVE	KOHLER	KP304-KS-NA		
SK-1	BREAKROOM SINK - 19"x18"x5.5" SINGLE BOWL DROP-IN - 18GA STAINLESS - ADA	ELKAY	LRAD191855	1/2" CW, 1/2" HW, 2" S, 1-1/4" V	1, 3, 4, 9
	FAUCET - 8"CC, SINGLE LEVER, W/ 8.5" SWING SPOUT	KOHLER	K15171-F-CP		
	STRAINER - 3.5"				
SK-2	BREAKROOM SINK - 31"x22"x6.5" SINGLE BOWL DROP-IN - 18GA STAINLESS - ADA	ELKAY	LRAD312265PD	1/2" CW, 1/2" HW, 2" S, 1-1/4" V	1, 3, 4, 9
	FAUCET - 8"CC, SINGLE LEVER, W/ 8.5" SWING SPOUT	KOHLER	K15171-F-CP		
	STRAINER - INTEGRAL				
MSB-1	MOP SERVICE BASIN - 24"x24"x10" JANITOR SINK - TERRAZZO	FIAT	TSB-200	1/2" CW, 1/2" HW, 3" S, 1-1/4"V	14, 15
	FAUCET - W/ VACUUM BREAKER SPOUT & HOSE THREAD OUTLET	CHICAGO	897-CP		
GWH-1	NATURAL GAS WATER HEATER - TANKLESS W/ INTEGRAL CIRCULATION PUMP	RINNAI	RUR98i	1" CW, 1" HW, 3/4" DRAIN	6, 7, 8
	0.96 AFUE, GAS INPUT 15.2-199 MBH, HW FLOW RATE 0.26-9.8 GPM				
	WITH INTEGRAL PROGRAMMABLE CIRCULATION PUMP TIMER CONTROL				
FD-1	FLOOR DRAIN	OATEY TRUE SET	TP3138	1/2" TRAP PRIMER, 3" S, 1-1/2" V	
FD-2	FLOOR DRAIN - MEDIUM DUTY	ZURN	Z1726	1/2" TRAP PRIMER, 3" S, 1-1/2" V	
FCO	FLOOR CLEANOUT - HEAVY DUTY	ZURN	Z1400		
WCO	WALL CLEANOUT	ZURN	Z1470 W/ CO2530 COVER		
WH-1	NON-FREEZE WALL HYDRANT	ZURN	Z-1321	3/4" CW	
WB-1	WALL BOX - FOR CLOTHES WASHER OR REFRIGERATOR	GUY GRAY	B-150	1/2" CW, 1/2" HW, 2" S, 1-1/4" V - WASHER	10
				1/2" CW - REFRIGERATOR	
HB-1	HOSE BIBB W/ INTEGRAL VACUUM BREAKER & HANDLE KEY	WOODFORD	24C	3/4" CW	16
FS-1	FLOOR SINK - 12"X12"X6" CAST IRON W/ WHITE ACID RESISTANT ENAMEL FINISH	ZURN	ZN1900-3NH-VPS-2-11	3" S, 1-1/2" V, 1/2" TRAP PRIMER	11, 12, 13
	ABS ANTI-SPLASH DOME STRAINER, NICKEL BRIGHT SQ GRATE FRAME & 1/2 GRATE				
EEWS-1	EMERGENCY EYEWASH & SHOWER COMBINATION FIXTURE	HAWS CORPORATION	8300	1-1/4" TEPID WATER	17
TD-1	TRENCH DRAIN SYSTEM - 6" WIDE, 1/8"/FT SLOPE TO BOTTOM DRAIN	ABT, INC.	POLYDRAIN	4" S TO OIL/WATER SEPARATOR	18
	PRE-FAB TRENCH DRAIN SYSTEM W/ RADIUS BOTTOM AND INTERLOCKING ENDS				
	W/ GALVANIZED STEEL FRAME AND #502 HIGH INTAKE SLOTTED GRATE (EXTRA HEAVY DUTY)				

NOTES:

1. CHROME PLATED ANGLE SUPPLY WITH LOOSE KEY STOPS & CHROME PLATED ESCUTCHEON.
2. BOLT CAPS WITH RETAINER CLIPS.
3. PROVIDE CHROME PLATED STRAINER AND DRAIN TAILPIECE, AND 1-1/4" CHROME PLATED TUBULAR P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
5. PROVIDE TRUEBRO 102 AND 105 TAILPIECE INSULATION KITS WHERE DHW AND/OR DRAIN TAILPIECE IS EXPOSED BELOW LAVATORY .
6. PROVIDE PVC COMBUSTION AIR INTAKE AND PVC VENT PIPING TO BUILDING EXTERIOR PER MFR RECOMMENDATIONS. TERMINATE WITH CONCENTRIC VENT KIT AND PAINT TO MATCH BLDG EXTERIOR.
7. PROVIDE T&P VALVE WITH COPPER DISCHARGE ROUTED TO FLOOR DRAIN OR MOP/SERVICE SINK. PROVIDE DEDICATED DHWR LINE FOR HOT WATER CIRCULATION LOOP.
8. PROVIDE WALL CARRIER. COORDINATE WITH WALL TYPE INDICATED ON ARCHITECTURAL DRAWINGS.
9. PROVIDE THERMOSTATIC MIXING VALVE (TMV) FOR DHW BELOW FIXTURE. SET AT DHW TEMPERATURE AT 110F.
10. PROVIDE OUTLETS AND VALVES TO SERVE FIXTURE OR APPLIANCE AS REQUIRED. PROVIDE IN-LINE FILTER FOR REFRIGERATOR ICE MAKER.
11. PROVIDE WITH VANDAL PROOF STRAINER, VANDAL PROOF SECURED TOP COMPLETE WITH VANDAL PROOF FASTENERS.
12. PROVIDE WITH ZURN MODEL ZS1400-4NH-BZ LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT W/ POLISHED S.S. TOP.
13. PROVIDE WITH ZURN MODEL Z-1000 DEEP SEAL P-TRAP WITH DURA-COATED CAST IRON BODY (9.5" LENGTH).
14. PROVIDE EXPOSED YOKE WALL-MTD UTILITY FAUCET WITH VACUUM BREAKER AND STOPS IN SHANKS, METAL LEVER HANDLES, 1/2" NPT FEMALE INLETS, POLISHED CHROME.
15. PROVIDE MOLDED STONE BASIN WITH S.S. STRAINER AND S.S. EDGE GUARD ON PERIMETER. S.S. WALL GUARD BETWEEN FAUCET & BASIN. 3/4" HOSE & WALL BRACKET.
16. SUPPORT ALL HOSE BIBBS AS DETAILED ON THE PLANS.
17. PROVIDE THERMOSTATIC MIXING VALVE RATED FOR EMERGENCY EYEWASH/SHOWER BLENDING CW & HW TO TEPID CONDITION AT FIXTURE.
18. PROVIDE STRAINER AND P-TRAP AT SANITARY CONNECTION TO TRENCH DRAIN. PROVIDE LOAD CLASS **E** (EXTREME HEAVY DUTY - PER DIN 19580) GRATE AND TAMPER RESISTANT FASTENERS. BLACK POLYMER COATED STEEL GRATE.

TAP ARCHITECTURE

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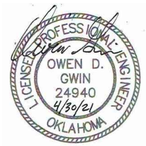
SEAL



PROJECT

CITY OF MOORE
PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

ISSUES
REVISIONS

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04.30.2021

SHEET
TITLE

PLUMBING
SCHEDULES

SHEET
NUMBER

P601

PROJECT
NUMBER

1707.3

VALVE LEGEND

	DOUBLE CHECK VALVE ASSEMBLY
	RPZ, 3" AND LARGER
	RPZ, 2" AND SMALLER
	GLOBE VALVE
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	GAUGE COCK
	PLUG VALVE
	CHECK VALVE - SWING TYPE
	CHECK VALVE - BUTTERFLY TYPE
VB	VACUUM BREAKER
	PRESSURE REDUCING VALVE
	GAS PRESSURE REGULATOR
	BALANCING VALVE
	CIRCUIT SETTER
	ORIFICE VALVE
S	SUPERVISED VALVE
M	MOTOR OPERATED VALVE
	SOLENOID OPERATED VALVE (ELECTRIC)
	AUTOMATIC VALVE
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE
	TEMPERATURE / PRESSURE RELIEF VALVE
	ANGLE VALVE
	SAFETY RELIEF VALVE
	3-WAY MIXING VALVE
	3-WAY DIVERTING VALVE
	SAFETY VALVE WITH DRIP PAN ELBOW
	AUTOMATIC AIR VENT AND SHUTOFF VALVE
	MANUAL AIR VENT
	CHAIN OPERATED VALVE

AIR DEVICE LEGEND

24 x 12SG- 700	SIDEWALL SUPPLY GRILLE WITH SIZE, TYPE & CFM
20 x 20RG- 700	SIDEWALL RETURN GRILLE WITH SIZE, TYPE & CFM
18 x 18EG 600	CEILING EXHAUST GRILLE WITH SIZE, TYPE & CFM
12 x 12CD- 700	RIGID DUCT & CEILING SUPPLY DIFFUSER WITH SIZE, TYPE & CFM
12 x 12CD- 700	FLEX. DUCT & CEILING SUPPLY DIFFUSER WITH SIZE, TYPE & CFM
4"-0"CD- 700	FLEXIBLE DUCT & LINEAR DIFFUSER WITH LENGTH, TYPE & CFM (TYPE SUFFIX DENOTES NO. OF SLOTS)
EG	EXHAUST GRILLE
TG	TRANSFER GRILLE
2FT²	2 SQUARE FOOT OPENING IN WALL ABOVE CEILING
	FLEXIBLE DUCT
15	DUAL DUCT MIXING BOX (15, SEE BOX SCHEDULE)
16	SINGLE DUCT BOX (16, SEE BOX SCHEDULE)
17	SINGLE DUCT BOX WITH REHEAT (17, SEE BOX SCHEDULE)
48 x 48 LVR 6000 OA	LOUVER WITH SIZE, SECTION & CFM
H	HUMIDISTAT
H_D	DUCT HUMIDISTAT
T	THERMOSTAT
T_A	THERMOSTAT - ASPIRATING
T_N	THERMOSTAT - NIGHT
$T_{R\ or\ D}$	THERMOSTAT - RECESSED OR DIFFUSER MOUNTED
T	THERMOMETER
2FT²	DOOR LOUVER WITH 2 SQUARE FEET FREE AREA

PIPING LEGEND

	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	PIPE ANCHOR
	PIPE GUIDE
	PIPE DROP
	PIPE RISE
	PIPE DROP @ 45°
	BRANCH TEE, TOP CONNECTION
	BRANCH TEE, BOTTOM CONNECTION
	CAP ON END OF PIPE
	PLUGGED TEE
	UNION
	FLANGED UNION
D	DIELECTRIC UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	WYE STRAINER WITH VALVED BLOWOFF
	PIPE BREAK
	VALVE IN RISE OR DROP
P	PRESSURE GAUGE
P	PRESSURE GAUGE WITH GAUGE COCK
T	THERMOMETER WITH WELL
	THERMOMETER WELL
	AQUASTAT
M	METER (NATURAL GAS, CITY WATER)
	FLEXIBLE CONNECTOR - NEOPRENE TYPE
	FLEXIBLE CONNECTOR - BELLOWS TYPE
	STEAM TRAP

DUCT LEGEND

	ROUND DUCTWORK
	FLAT OVAL DUCTWORK
20 x 2	DUCT (FIRST DIMENSION IS SIDE SHOWN)
	SOUND ATTENUATING DUCTWORK
	SUPPLY DUCT SECTION
	RETURN, EXHAUST, OR OUTSIDE AIR DUCT SECTION
R	INCLINE RISE (R) OR DROP (D); ARROW IN DIRECTION OF AIR FLOW
	TRANSITION
	45° BRANCH
	45° BRANCH TAKEOFF WITH EXTRACTOR
	45° BRANCH TAKEOFF WITH SPLITTER
	RADIUS BRANCH
	RADIUS BRANCH TAKEOFF WITH SPLITTER
	AIR FLOW MEASURING STATION IN DUCTWORK
	DUCT MOUNTED STEAM OR HOT WATER HEATING COIL
	DUCT MOUNTED STEAM HUMIDIFIER
36 x 12	FLAT OVAL DUCTWORK WITH CONICAL TAP AND FLAT OVAL OR ROUND BRANCH DUCT
36 x 12	FLAT OVAL DUCTWORK WITH CONICAL TAP AND CAPPED FLAT OVAL OR ROUND BRANCH DUCT
12x12 12" Ø	TRANSITION FROM RECTANGULAR TO ROUND DUCTWORK
	DUCTWORK TEE WITH ADJUSTABLE SPLITTER DAMPER AND VANED ELBOWS
MVD	MANUAL VOLUME DAMPER
M MOD	MOTOR OPERATED DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
	TURNING VANES
	FLEXIBLE CONNECTION - DUCTWORK
	DUCT CAP

MISCELLANEOUS SYMBOLS

#	KEYED DRAWING NOTES
	POINT OF CONNECTION / REMOVAL
	ELEVATION MARKER
# SHEET	DETAIL INDICATOR
# SHEET	SECTION INDICATOR

PROJECT GENERAL NOTES:

A. "GENERAL NOTES" APPLY TO ALL DRAWINGS ISSUED FOR THIS PROJECT. "DRAWING NOTES" APPLY ONLY TO THE SHEETS ON WHICH THEY APPEAR. THE WORD "PROVIDE" IS DEFINED "FURNISH AND INSTALL".

B. ALL WORK TO BE PERFORMED AND INSTALLED PER THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL CODES, LAWS, REGULATIONS, INSPECTION AGENCIES, UTILITY COMPANIES, AND ANY OTHER AUTHORITIES HAVING JURISDICTION. REFER TO ARCHITECTURAL DRAWINGS FOR FEDERAL ADA FIXTURE REQUIREMENTS (IF ANY).

C. COORDINATE WITH WORK OF OTHER TRADES AND CONSTRUCTION MANAGER TO AVOID INTERFERENCES BEFORE BEGINNING WORK.

D. CONTRACTOR MUST AVOID SEVERANCE OR DAMAGE TO BURIED SERVICE LINES. SHOULD DAMAGE OCCUR, REPAIRS SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.

MECHANICAL GENERAL NOTES:

A. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

B. CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID IN ORDER TO VERIFY EXISTING CONDITIONS THAT MAY IMPEDE THE WORK TO BE PERFORMED IN THIS CONTRACT. NOT ALL EXISTING CONDITIONS ARE SHOWN ON THESE PLANS, AND CONTRACT CHANGE ORDERS WILL NOT BE ALLOWED TO RESOLVE CONFLICTS WITH EXISTING PIPING, DUCTS, CONDUIT, LIGHTING, EQUIPMENT, ETC.

C. INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND STANDARDS.

D. NOT ALL EXISTING EQUIPMENT OR CONDITIONS ARE INDICATED ON THESE PLANS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING EQUIPMENT, DUCTWORK, CONDUIT, LIGHTING, AND PIPING BEFORE BIDDING THIS WORK.

E. COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ELECTRICAL WORK SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

F. WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.

G. CLOSELY FOLLOW MANUFACTURER RECOMMENDATIONS FOR EQUIPMENT AND SYSTEM INSTALLATION. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.

H. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS.

I. ALL MISCELLANEOUS HARDWARE AND SUPPORTS REQUIRED TO ENSURE PROPER INSTALLATION AND AS SHOWN IN DETAILS FOR PIPING, DUCTWORK, AND EQUIPMENT (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

J. ALL EQUIPMENT, PIPING, DUCTWORK, ETC. SHALL BE SUPPORTED AS DETAILED, SPECIFIED, AND REQUIRED TO PROVIDE A VIBRATION-FREE INSTALLATION.

K. CERTAIN ITEMS SUCH AS RISES AND DROPS IN DUCTWORK, ACCESS DOORS, VOLUME DAMPERS, ETC. ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

L. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.

M. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH SINGLE THICKNESS TURNING VANES PER SMACNA GUIDELINES UNLESS INDICATED OTHERWISE. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.

N. ALL DUCTWORK SHALL BE FABRICATED AND SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL RIGID DUCTWORK SHALL BE GALVANIZED STEEL (ASTM A525 AND ASTM A527). LOCK-FORMING QUALITY HAVING A G90 ZINC COATING IN CONFORMANCE WITH ASTM A90. INSULATE ALL SUPPLY & RETURN AIR DUCTS CONCEALED ABOVE THE CEILING WITH 1-1/2" 1.5 LB/CF FIBERGLASS WITH FSK JACKET. EXHAUST DUCTWORK AND EXPOSED DUCTWORK SHALL BE UNINSULATED.

O. PROVIDE WEATHERPROOFING AT ALL EXTERIOR WALL AND ROOF PENETRATIONS.

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PROJECT

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CITY of MOORE OKLAHOMA 1893

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

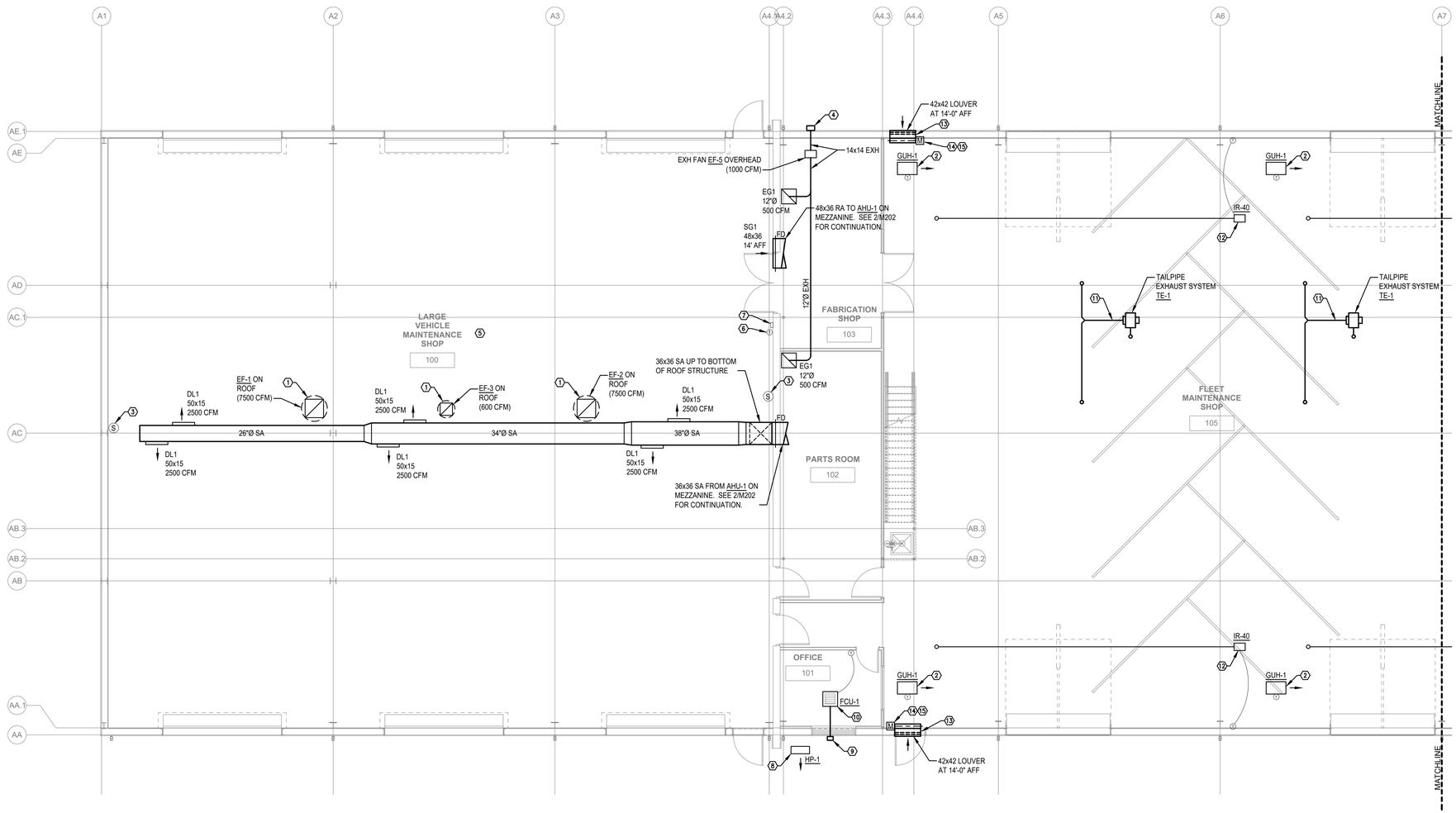
HVAC LEGENDS & NOTES

SHEET
NUMBER

M001

PROJECT
NUMBER

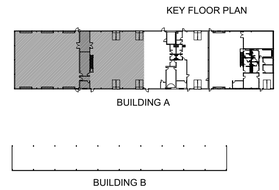
1707.3



1 PHASE 1 HVAC PLAN - NORTH
SCALE: 1/8"=1'-0"

NORTH

KEY FLOOR PLAN



DRAWING NOTES:

1. NEW EXHAUST FAN ON SLOPED ROOF CURB TO PROVIDE LEVEL FAN INSTALLATION. SEE EQUIPMENT SCHEDULE ON SHEET M601 . VERIFY THAT ALL LOCAL AND STATE CODE REQUIREMENTS ARE SATISFIED WITH THE NEW FAN INSTALLATION. MAINTAIN 10 FT SEPARATION BETWEEN OUTDOOR AIR INTAKES AND EXHAUST TERMINATIONS. LOCATE ROOF-MOUNTED EQUIPMENT MINIMUM OF 10'-0" FROM THE ROOF EDGE.
2. GAS FIRED UNIT HEATER MOUNTED AT 11 FT AFF TO BOTTOM. PROVIDE SEPARATE COMBUSTION AIR AND TYPE-B DOUBLE WALL VENT UP TO CONCENTRIC VENT KIT AT ROOF.
3. CARBON MONOXIDE SENSOR AT APPROXIMATELY 48" AFF. SENSOR SHALL BE OF THE CATALYTIC OXIDATION (METAL OXIDE) TYPE.
4. WALL CAP ON EXTERIOR WALL AT APPROX. 11 FT AFF. PAINT WALL CAP TO MATCH EXTERIOR WALL COLOR.
5. LARGE VEHICLE MAINTENANCE AREA #100:
   - 5.1. EXHAUST FAN EF-3 SHALL RUN CONTINUOUSLY WHILE THE BUILDING IS OCCUPIED.
   - 5.2. SHOULD CARBON MONOXIDE SENSORS DETECT 50 PPM CO, EF-1 & 2 SHALL ENERGIZE IN EMERGENCY MODE. AHU-1 SHALL SWITCH TO 100% OA, VISIBLE AND AUDIBLE ALARMS SHALL ACTIVATE, AUTOMATIC ROLL DOORS SHALL OPEN, AND MAINTENANCE PERSONNEL SHALL BE REMOTELY NOTIFIED THAT THE SYSTEM IS IN ALARM.
6. TEMPERATURE SENSOR ON WALL AT 48" AFF TO MODULATE HEATING FOR AHU-1 (60F SETPOINT, ADJUSTABLE) AND ALSO TO ACTIVATE EF-1 & 2 AND SWITCH AHU-1 TO 100% OA FOR VENTILATION SHOULD SPACE TEMPERATURE RISE ABOVE SETPOINT (INITIALLY 80F, ADJUSTABLE).
7. GAS DETECTION AND HVAC SYSTEM CONTROL PANEL. SEE NOTES 5 AND 6 ABOVE FOR REQUIRED SEQUENCES.
8. NEW VARIABLE REFRIGERANT VOLUME (VRF) HEAT PUMP EQUIPMENT MOUNTED ON 4" CONCRETE PAD. ROUTE REFRIGERANT PER MANUFACTURER RECOMMENDATIONS. SEE EQUIPMENT SCHEDULE ON SHEET M601.
9. 4" OA DUCT TO WEATHERPROOF WALL CAP AT APPROX. 11 FT AFF.
10. NEW CASSETTE STYLE VRF FAN COIL UNIT AT CEILING. SEE EQUIPMENT SCHEDULE ON SHEET M601 AND DETAIL 4/M501.
11. VEHICLE TAILPIPE EXHAUST SYSTEM SUSPENDED OVERHEAD. SEE DETAIL 8/M501.
12. GAS FIRED INFRARED HEATER MOUNTED AT 16' AFF. ROUTE VENT UP THRU ROOF WITH TYPE-B DOUBLE WALL VENT PIPE AND TERMINATE WITH VENT CAP PER MANUFACTURER RECOMMENDATIONS.
13. EXTERIOR WALL LOUVER SHALL BE 6" DEEP, EXTRUDED ALUMINUM DRAINABLE BLADE DESIGN, RUSKIN MODEL ELF-6375DX OR EQUIVALENT.
14. EXTERIOR WALL LOUVER FOR AIR INTAKE WITH MOTORIZED CONTROL DAMPER (RUSKIN MODEL CD40 OR EQUIVALENT) ON INSIDE FACE OF EXTERIOR WALL. INTERLOCK DAMPER ACTUATOR WITH ASSOCIATED EXHAUST FAN.
15. INTERLOCK DAMPER ACTUATOR TO OPEN WHEN ASSOCIATED EXHAUST FAN IS ACTIVATED. PROVIDE 10 SECOND TIME DELAY RELAY TO ALLOW DAMPER TO OPEN PRIOR TO EXHAUST FAN STARTING.

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ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

PHASE 1 BLDG A
HVAC PLAN NORTH

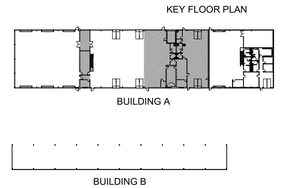
SHEET NUMBER

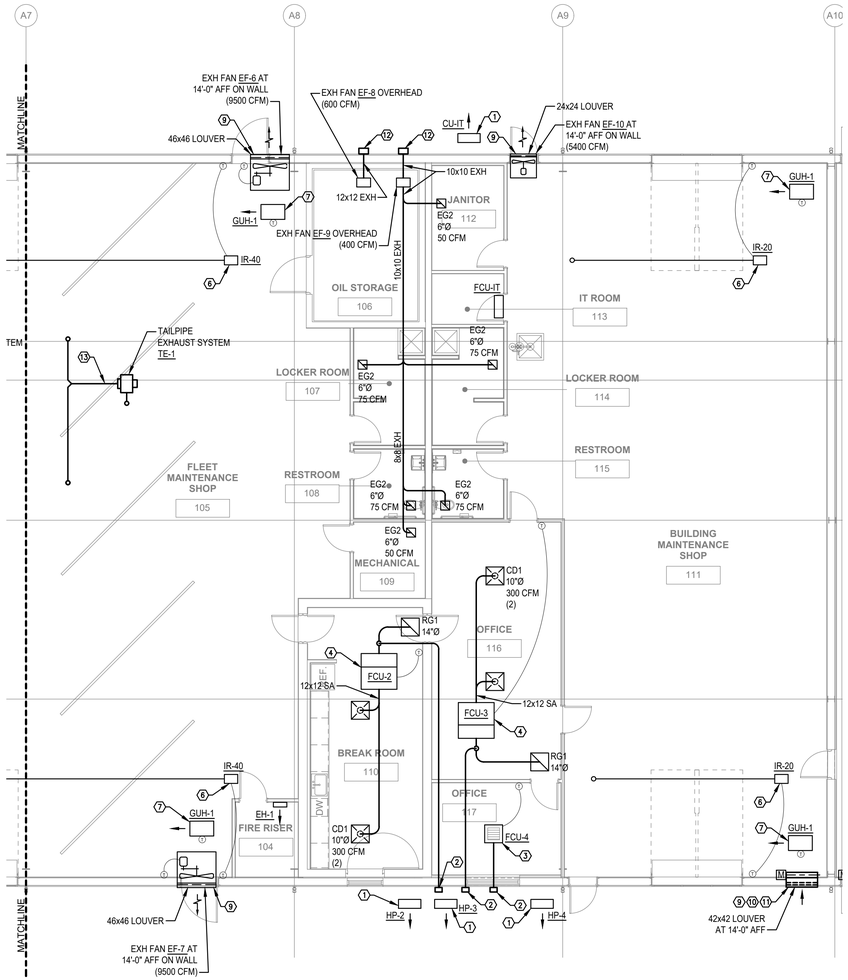
M211.1

PROJECT NUMBER

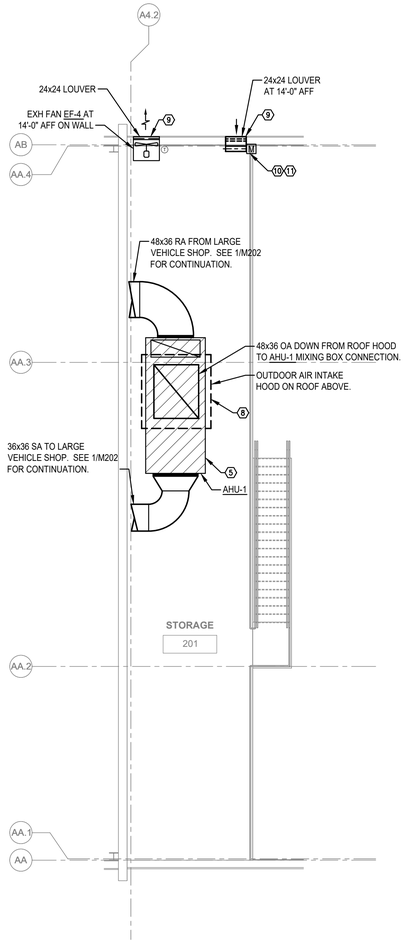
1707.3

KEY FLOOR PLAN





1 PHASE 1 HVAC PLAN - SOUTH
SCALE: 1/8"=1'-0"



2 PHASE 1 HVAC PLAN - MEZZANINE
SCALE: 1/8"=1'-0"

DRAWING NOTES:

1. NEW VARIABLE REFRIGERANT VOLUME (VRF) HEAT PUMP EQUIPMENT MOUNTED ON 4" CONCRETE PAD. ROUTE REFRIGERANT PER MANUFACTURER RECOMMENDATIONS. SEE EQUIPMENT SCHEDULE ON SHEET M601.
2. 4" OA DUCT TO WEATHERPROOF WALL CAP AT APPROX. 11 FT AFF.
3. NEW CASSETTE STYLE VRF FAN COIL UNIT AT CEILING. SEE EQUIPMENT SCHEDULE ON SHEET M601 AND DETAIL 4/M501.
4. NEW CONCEALED HORIZONTAL VRF FAN COIL UNIT ABOVE CEILING. MOUNT UNIT WITHIN 18" OF CEILING LEVEL FOR MAINTENANCE ACCESS FROM BELOW THRU CEILING TILES. WHERE UNIT IS LOCATED OVER HARD CEILING, PROVIDE ACCESS PANEL IN CEILING PER MFR RECOMMENDATIONS. SEE EQUIPMENT SCHEDULE ON SHEET M601 AND DETAIL 3/M501.
5. NEW MAKE-UP AIR HANDLING UNIT AHU-1 ON 4" CONCRETE EQUIPMENT PAD. SEE EQUIPMENT SCHEDULE ON SHEET M601. PROVIDE CONTROL SYSTEM AND INTERLOCK WITH EXHAUST FANS TO ACHIEVE REQUIRED CONTROL SEQUENCES.
6. GAS FIRED INFRARED HEATER MOUNTED AT 16' AFF. ROUTE VENT UP THRU ROOF WITH TYPE-B DOUBLE WALL VENT PIPE AND TERMINATE WITH VENT CAP PER MANUFACTURER RECOMMENDATIONS.
7. GAS FIRED UNIT HEATER MOUNTED AT 11 FT AFF TO BOTTOM. PROVIDE SEPARATE COMBUSTION AIR AND TYPE-B DOUBLE WALL VENT UP TO CONCENTRIC VENT KIT AT ROOF.
8. NEW OUTDOOR AIR INTAKE HOOD ON ROOF ABOVE. HOOD SHALL BE LOREN COOK MODEL GI 60X72GR OR EQUIVALENT. PROVIDE ALUMINUM BIRDSCREEN, ANTI-CONDENSATE COATING, AND SLOPED ROOF CURB FOR LEVEL HOOD INSTALLATION. TRANSITION OUTDOOR AIR DUCT AT CURB FROM HOOD OPENING SIZE TO DUCT SIZE INDICATED ON PLANS.
9. EXTERIOR WALL LOUVER SHALL BE 6" DEEP, EXTRUDED ALUMINUM DRAINABLE BLADE DESIGN, RUSKIN MODEL ELF-6375DX OR EQUIVALENT.
10. EXTERIOR WALL LOUVER FOR AIR INTAKE WITH MOTORIZED CONTROL DAMPER (RUSKIN MODEL CD40 OR EQUIVALENT) ON INSIDE FACE OF EXTERIOR WALL. INTERLOCK DAMPER ACTUATOR WITH ASSOCIATED EXHAUST FAN.
11. INTERLOCK DAMPER ACTUATOR TO OPEN WHEN ASSOCIATED EXHAUST FAN IS ACTIVATED. PROVIDE 10 SECOND TIME DELAY RELAY TO ALLOW DAMPER TO OPEN PRIOR TO EXHAUST FAN STARTING.
12. WALL CAP FOR EXHAUST AIR ON EXTERIOR WALL AT APPROX. 11 FT AFF. PAINT WALL CAP TO MATCH EXTERIOR WALL COLOR.
13. VEHICLE TAILPIPE EXHAUST SYSTEM SUSPENDED OVERHEAD. SEE DETAIL 8/M501.

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

PHASE 1 BLDG A
HVAC PLAN SOUTH

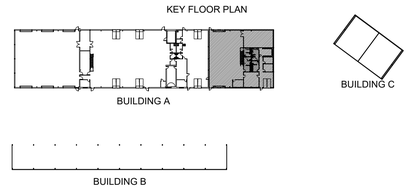
SHEET NUMBER

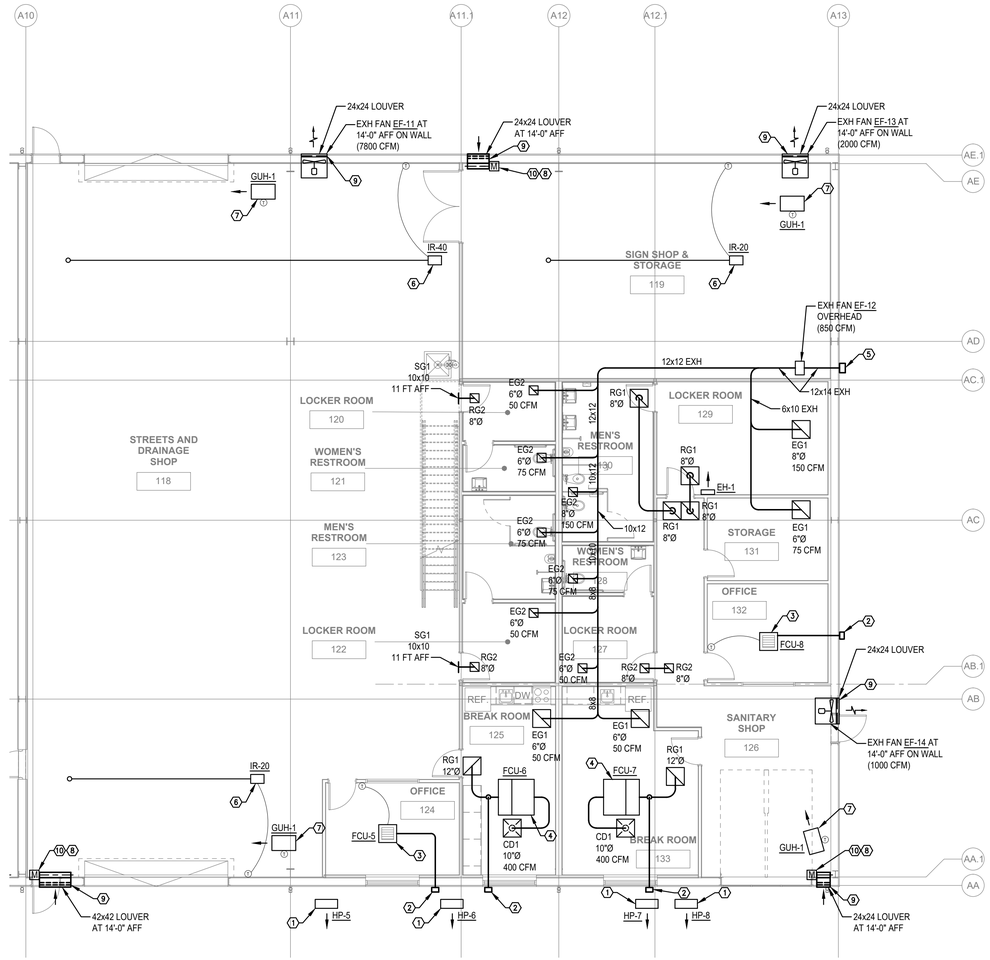
M211.2

PROJECT NUMBER

1707.3

KEY FLOOR PLAN





1 PHASE 2 HVAC PLAN
SCALE: 1/8"=1'-0"

NORTH

DRAWING NOTES:

1. NEW VARIABLE REFRIGERANT VOLUME (VRF) HEAT PUMP EQUIPMENT MOUNTED ON 4" CONCRETE PAD. ROUTE REFRIGERANT PER MANUFACTURER RECOMMENDATIONS. SEE EQUIPMENT SCHEDULE ON SHEET M601.
2. 4" OA DUCT TO WEATHERPROOF WALL CAP AT APPROX. 11 FT AFF.
3. NEW CASSETTE STYLE VRF FAN COIL UNIT AT CEILING. SEE EQUIPMENT SCHEDULE ON SHEET M601 AND DETAIL 4/M501.
4. NEW CONCEALED HORIZONTAL VRF FAN COIL UNIT ABOVE CEILING. MOUNT UNIT WITHIN 18" OF CEILING LEVEL FOR MAINTENANCE ACCESS FROM BELOW THRU CEILING TILES. WHERE UNIT IS LOCATED OVER HARD CEILING, PROVIDE ACCESS PANEL IN CEILING PER MFR RECOMMENDATIONS. SEE EQUIPMENT SCHEDULE ON SHEET M601 AND DETAIL 3/M501.
5. WALL CAP ON EXTERIOR WALL AT APPROX. 11 FT AFF. PAINT WALL CAP TO MATCH EXTERIOR WALL COLOR.
6. GAS FIRED INFRARED HEATER MOUNTED AT 16' AFF. ROUTE VENT UP THRU ROOF WITH TYPE-B DOUBLE WALL VENT PIPE AND TERMINATE WITH VENT CAP PER MANUFACTURER RECOMMENDATIONS.
7. GAS FIRED UNIT HEATER MOUNTED AT 11 FT AFF TO BOTTOM.
8. INTERLOCK DAMPER ACTUATOR TO OPEN WHEN ASSOCIATED EXHAUST FAN IS ACTIVATED. PROVIDE 10 SECOND TIME DELAY RELAY TO ALLOW DAMPER TO OPEN PRIOR TO EXHAUST FAN STARTING.
9. EXTERIOR WALL LOUVER SHALL BE 6" DEEP, EXTRUDED ALUMINUM DRAINABLE BLADE DESIGN, RUSKIN MODEL ELF-6375DX OR EQUIVALENT.
10. EXTERIOR WALL LOUVER FOR AIR INTAKE WITH MOTORIZED CONTROL DAMPER (RUSKIN MODEL CD40 OR EQUIVALENT) ON INSIDE FACE OF EXTERIOR WALL. INTERLOCK DAMPER ACTUATOR WITH ASSOCIATED EXHAUST FAN.

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CITY of MOORE OKLAHOMA 1908

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

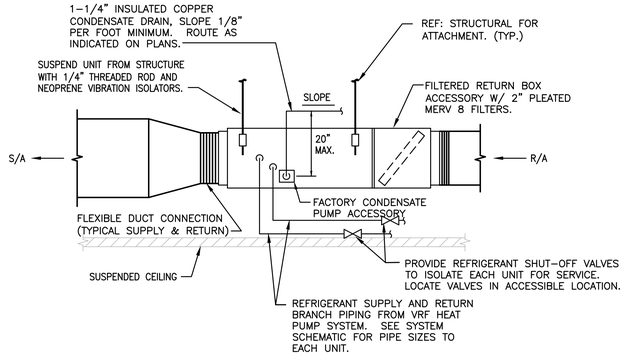
PHASE 2 BLDG A
HVAC PLAN

SHEET
NUMBER

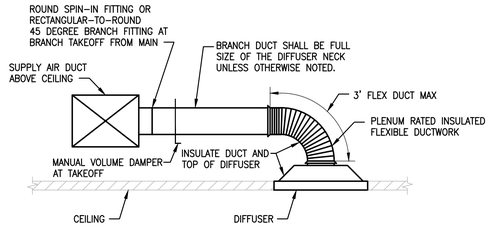
M212

PROJECT
NUMBER

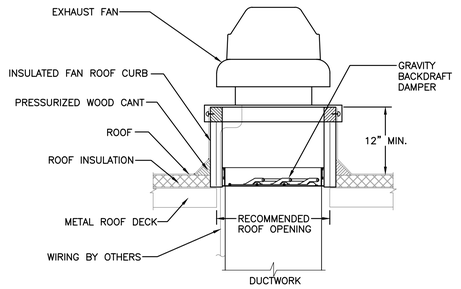
1707.3



3 TYPICAL VRF CONCEALED FAN COIL UNIT DETAIL
SCALE: NTS

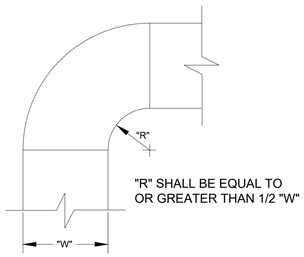


2 TYPICAL BRANCH DUCT TO DIFFUSER DETAIL
SCALE: NTS



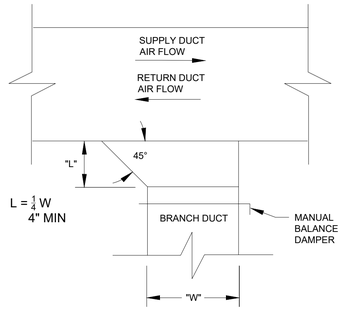
NOTE: ROOF CURB SHALL ACCOMMODATE ANY ROOF SLOPE SO THAT THE FAN IS MOUNTED IN A LEVEL POSITION

1 ROOF MOUNTED EXHAUST FAN DETAIL
SCALE: NTS

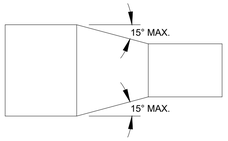


NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

7 TYPICAL RADIUS ELBOW DETAIL
SCALE: NTS

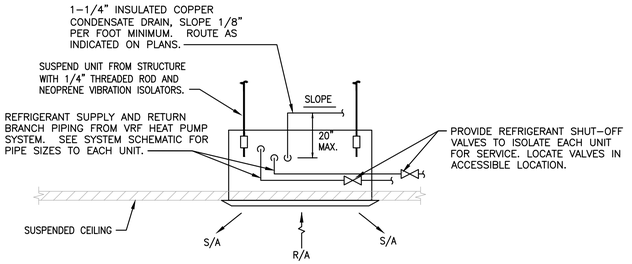


6 TYPICAL RECTANGULAR BRANCH DUCT DETAIL
SCALE: NTS

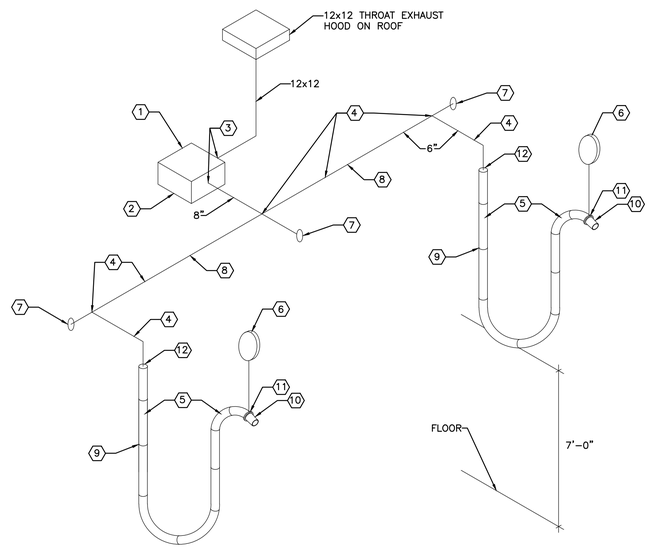


PLAN OR SIDE VIEW

5 TYPICAL DUCT TRANSITION DETAIL
SCALE: NTS



4 TYPICAL CASSETTE FAN COIL UNIT DETAIL
SCALE: NTS



SPECIFIC NOTES:
1. 500 CFM PER DROP X2 = 1000 CFM AT 3.0", 1 HP MOTOR, 460V/3 PHASE. CAR-MON SERIES 10.
2. EXHAUST FAN PLATFORM – SUPPORT FR. STRUCT.
3. INLET/DISCHARGE CONNECTORS (DATA 86-F10)
4. S-PIPE, FITTINGS (DATA 95-05) TEE WITH FLANGE (DATA 98-01)
5. DEP EXHAUST PACKAGE (DATA 98-D4)
6. SERIES BA SPRING BALANCER.
7. SERIES CC CLEANOUT CAP
8. HIGH AS POSSIBLE.
9. 6" x 12' CLX HIGH TEMPERATURE TUBING (1100°F)
10. SERIES RDS EPDM EXHAUST ADAPTER
11. LIFTING RING
12. SERIES J FLANGED SOCKET FITTING

GENERAL NOTES:
1. CONRACTOR SHALL PROVIDE "CAR-MON" OR THAT OF EQUAL QUALITY.
2. ALL INLET DUCTWORK AND DISCHARGE TRANSITION SHALL BE FURNISHED BY "CAR-MON"
3. PROVIDE 1 SERIES PP POSITIONING POLE FOR EACH BAY
4. COORDINATE INSTALLATION LOCATIONS WITH OWNER
5. SUPPORT ALL RIGID DUCTWORK FR. STRUCT. WITH SWAY BRACING
6. SUPPORT AND BRACE FAN ON PLATFORM WITH 1/2" RODS AND 1-1/2" STEEL ANGLES

8 TYPICAL TAILPIPE EXHAUST SYSTEM DETAIL
SCALE: NTS

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA 1988

ISSUES
REVISIONS

100% ISSUE FOR BID
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SHEET TITLE

HVAC DETAILS

SHEET NUMBER

M501

PROJECT NUMBER

1707.3

DUCTLESS SPLIT SYSTEM HEAT PUMPS

TAG	SERVES	DESCRIPTION	REFRIG	INDOOR UNIT							OUTDOOR UNIT									PIPING			ELECTRICAL			NOTES
											COOLING				HEATING												
				CFM	OA CFM	DIMENSIONS (LxWxH)	MOTOR (WATTS)	MOUNTING	WEIGHT (LBS)	MFR & MODEL	COOLING CAPACITY RANGE (BTU/HR)	SEER	EAT DB/WB	AMBIENT TEMP	HEATING CAPACITY RANGE (BTU/HR)	HSPF	EAT DB/WB	AMBIENT TEMP	WEIGHT (LBS)	MFR & MODEL	REFRIG GAS	REFRIG LIQUID	COND DRAIN	MCA	MOCP	VOLTS-PHASE-HERTZ	
FCU-1 / HP-1	OFFICE #101	CASSETTE SPLIT SYSTEM HEAT PUMP	R-410A	280	10	24"x24"x9"	15	HARD CEILING	36	MITSUBISHI SLZ-KA09NA	3100 - 10,900	15.0	80 / 67	95.0	3100 - 14,100	9.6 BTUH/W	70 / 60	47	66	MITSUBISHI SUZ-KA09NA	3/8"	1/4"	1-1/4"	12	15	208V/1PH/60Hz	1 - 6
FCU-2 / HP-2	BREAKROOM #110	CONCEALED SPLIT HEAT PUMP	R-410A	600	80	44"x29"x10"	121	CONCEALED	69	MITSUBISHI PEAD-A24AA7	10,000 - 24,000	19.6	80 / 67	95.0	9000 - 26,000	10.8 BTUH/W	70 / 60	47	153	MITSUBISHI PUZ-A24NHA7	5/8"	3/8"	1-1/4"	19	25	208V/1PH/60Hz	1 - 6
FCU-3 / HP-3	OFFICE #116	CONCEALED SPLIT HEAT PUMP	R-410A	600	60	44"x29"x10"	121	CONCEALED	69	MITSUBISHI PEAD-A24AA7	10,000 - 24,000	19.6	80 / 67	95.0	9000 - 26,000	10.8 BTUH/W	70 / 60	47	153	MITSUBISHI PUZ-A24NHA7	5/8"	3/8"	1-1/4"	19	25	208V/1PH/60Hz	1 - 6
FCU-4 / HP-4	OFFICE #116	CASSETTE SPLIT SYSTEM HEAT PUMP	R-410A	280	10	24"x24"x9"	15	HARD CEILING	36	MITSUBISHI SLZ-KA09NA	3100 - 10,900	15.0	80 / 67	95.0	3100 - 14,100	9.6 BTUH/W	70 / 60	47	66	MITSUBISHI SUZ-KA09NA	3/8"	1/4"	1-1/4"	12	15	208V/1PH/60Hz	1 - 6
FCU-5 / HP-5	OFFICE #125	CASSETTE SPLIT SYSTEM HEAT PUMP	R-410A	280	10	24"x24"x9"	15	HARD CEILING	36	MITSUBISHI SLZ-KA09NA	3100 - 10,900	15.0	80 / 67	95.0	3100 - 14,100	9.6 BTUH/W	70 / 60	47	66	MITSUBISHI SUZ-KA09NA	3/8"	1/4"	1-1/4"	12	15	208V/1PH/60Hz	1 - 6
FCU-6 / HP-6	BREAKROOM #125	CONCEALED SPLIT HEAT PUMP	R-410A	400	50	36"x29"x10"	85	CONCEALED	58	MITSUBISHI PEAD-A12AA7	5000 - 12,000	21.1	80 / 67	95.0	5800 - 14,000	10.2 BTUH/W	70 / 60	47	93	MITSUBISHI PUZ-A12NKA7	1/2"	1/4"	1-1/4"	11	15	208V/1PH/60Hz	1 - 6
FCU-7 / HP-7	BREAKROOM #133	CONCEALED SPLIT HEAT PUMP	R-410A	400	50	36"x29"x10"	85	CONCEALED	58	MITSUBISHI PEAD-A12AA7	5000 - 12,000	21.1	80 / 67	95.0	5800 - 14,000	10.2 BTUH/W	70 / 60	47	93	MITSUBISHI PUZ-A12NKA7	1/2"	1/4"	1-1/4"	11	15	208V/1PH/60Hz	1 - 6
FCU-8 / HP-8	OFFICE #132	CASSETTE SPLIT SYSTEM HEAT PUMP	R-410A	280	10	24"x24"x9"	15	LAY-IN CEILING	36	MITSUBISHI SLZ-KA09NA	3100 - 10,900	15.0	80 / 67	95.0	3100 - 14,100	9.6 BTUH/W	70 / 60	47	66	MITSUBISHI SUZ-KA09NA	3/8"	1/4"	1-1/4"	12	15	208V/1PH/60Hz	1 - 6
FCU-IT / CU-IT	I.T. #113	WALL-MTD COOLING ONLY SPLIT SYSTEM	R-410A	370	0	36"x10"x12"	30	WALL-MTD	30	MITSUBISHI PKA-A12HA7	5800 - 12,000	20.8	80 / 67	95.0	NA	NA	NA	NA	NA	MITSUBISHI PUY-A12NKA7	1/2"	1/4"	5/8"	11	15	208V/1PH/60Hz	1 - 6

NOTES:
1. PROVIDE INVERTER-DRIVEN COMPRESSORS FOR VARIABLE CAPACITY.
2. PROVIDE WALL-MOUNTED PROGRAMMABLE THERMOSTAT CONTROL. LOOSE REMOTE CONTROL IS NOT ACCEPTABLE.
3. ROUTE CONDENSATE DRAIN TO NEAREST SERVICE SINK OR AS INDICATED ON THE PLANS AND TERMINATE WITH 1" AIR GAP. SLOPE AT 1/8" PER FOOT MINIMUM.
4. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES FOR INDOOR AND OUTDOOR UNITS.
5. ROUTE REFRIGERANT PIPING AND CONTROL & POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS PER MFR RECOMMENDATIONS. ROUTE WITHIN WALLS AND ABOVE CEILINGS WHERE PRACTICAL.
6. MAIN POWER CONNECTION IS TO OUTDOOR UNIT. INDOOR UNIT POWER IS FED FROM OUTDOOR UNIT VIA FIELD-PROVIDED WIRING.

FAN SCHEDULE

FAN NO.	SERVICE	DESCRIPTION	LOCATION	DRIVE	NORMAL OPERATION				MOTOR HP	VOLT/PH/Hz	MAKE & MODEL	NOTES
					CFM	S.P	RPM	BHP				
EF-1	EMERG & SUMMER VENT EXH	ROOF-MTD CENTRIFUGAL UPBLAST - AMCA TYPE B SPARK RESIST.	CNG STATIONS 100	BELT	7500	0.35	682	1.49	2	460V/3PH/60Hz	COOK MODEL ACRU-B 270R9B	1, 2, 5, 6
EF-2	EMERG & SUMMER VENT EXH	ROOF-MTD CENTRIFUGAL UPBLAST - AMCA TYPE B SPARK RESIST.	CNG STATIONS 100	BELT	7500	0.35	682	1.49	2	460V/3PH/60Hz	COOK MODEL ACRU-B 270R9B	1, 2, 5, 6
EF-3	GENERAL EXHAUST	ROOF-MTD CENTRIFUGAL DOWNBLAST - AMCA TYPE B SPARK RESIST.	CNG STATIONS 100	BELT	600	0.35	1382	0.088	1/4	115V/1PH/60Hz	COOK MODEL ACE-B 100C3B	1, 2, 3, 6
EF-4	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	AIR COMPRESSOR 104	DIRECT	1000	0.25	1725	0.214	1/3	115V/1PH/60Hz	COOK MODEL APD 16P17D	1, 5, 6, 8
EF-5	GENERAL EXHAUST	IN-LINE CABINET	AIR COMPRESSOR 104	DIRECT	1000	0.5	870	0.175	1/2	115V/1PH/60Hz	COOK GEMINI GC-920	1, 3, 4, 7
EF-6	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	SHOP 105	BELT	9500	0.35	1314	2.3	3	460V/3PH/60Hz	COOK MODEL EPB 30EP424B	1, 5, 6, 8
EF-7	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	SHOP 105	BELT	9500	0.35	1314	2.3	3	460V/3PH/60Hz	COOK MODEL EPB 30EP424B	1, 5, 6, 8
EF-8	GENERAL EXHAUST	IN-LINE CABINET	OIL STORAGE 106	DIRECT	600	0.35	1341	226W	226W	115V/1PH/60Hz	COOK GEMINI GC-720	1, 5, 6, 8
EF-9	GENERAL EXHAUST	IN-LINE CABINET	OIL STORAGE 106	DIRECT	400	0.5	1395	134W	134W	115V/1PH/60Hz	COOK GEMINI GC-642	1, 3, 4, 7
EF-10	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	SHOP 111	BELT	5400	0.35	1553	1.07	1-1/2	460V/3PH/60Hz	COOK MODEL EPB 24EP420B	1, 5, 6, 8
EF-11	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	SHOP 118	BELT	7800	0.35	1157	1.58	2	460V/3PH/60Hz	COOK MODEL EPB 30EP424B	1, 5, 6, 8
EF-12	GENERAL EXHAUST	IN-LINE CABINET	SIGN SHOP & STOR. 119	DIRECT	850	0.5	942	191W	191W	115V/1PH/60Hz	COOK GEMINI GC-842	1, 3, 4, 7
EF-13	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	SIGN SHOP & STOR. 119	BELT	2000	0.35	1027	0.305	1/2	115V/1PH/60Hz	COOK MODEL EPB 24EP420B	1, 5, 6, 8
EF-14	SUMMER VENT EXHAUST	WALL-MOUNTED PROPELLER	SANITARY SHOP 126	DIRECT	1000	0.25	1725	0.214	1/3	115V/1PH/60Hz	COOK MODEL APD 16P17D	1, 5, 6, 8

NOTES:
1. PROVIDE FACTORY PRE-WIRED INTEGRAL DISCONNECT SWITCH.
2. PROVIDE BACKDRAFT DAMPER, ALUMINUM BIRDSCREEN, AND SLOPED ROOF CURB FOR LEVEL FAN INSTALLATION.
3. FAN SHALL RUN CONTINUOUSLY WHILE BUILDING IS OCCUPIED. PROVIDE CONTROL RELAY TO ACTIVATE FAN TO RUN WHEN BUILDING IS OCCUPIED.
4. PROVIDE FLEXIBLE DUCT CONNECTIONS AT INLET AND OUTLET, INTEGRAL BACKDRAFT DAMPER, AND VIBRATION ISOLATORS.
5. FAN SHALL RUN DURING EMERGENCY MODE AND/OR DURING SUMMER VENTILATION MODE.
6. PROVIDE BELT TENSIONER-ROTARY ACCESSORY.
7. PROVIDE FACTORY PRE-WIRED FAN SPEED CONTROLLER FOR BALANCING.
8. PROVIDE INTEGRAL OSHA MOTOR GUARD AND GRAVITY BACKDRAFT SHUTTER AT FAN DISCHARGE UPSTREAM OF EXTERIOR WALL LOUVER.

AIR DEVICES

ITEM #	DESIGNATION	TYPE	FACE SIZE (IN)	BORDER TYPE	BASIS OF DESIGN		NOTES
					MANU	MODEL #	
1	CD1	ADJUSTABLE THROW CEILING DIFFUSER	24X24	VARIES	TITUS	TMSA	1, 2, 4
2	RG1	EGGCRATE RETURN GRILLE	24X24	VARIES	TITUS	50F	1, 2, 3
3	RG2	EGGCRATE RETURN GRILLE	12X12	VARIES	TITUS	50F	1, 2, 3
4	EG1	EGGCRATE EXHAUST GRILLE	24X24	VARIES	TITUS	50F	1, 2, 3, 4
5	EG2	EGGCRATE EXHAUST GRILLE	12X12	VARIES	TITUS	50F	1, 2, 3, 4
6	SR1	SIDEWALL SUPPLY REGISTER	VARIES	SURFACE	TITUS	272RS	1, 2, 5
7	SG1	SIDEWALL RETURN GRILLE	VARIES	SURFACE	TITUS	350RL	1, 2, 5
8	DL1	DRUM LOUVER - HIGH CAPACITY, LONG THROW	VARIES	DUCT MTD	TITUS	US-DL-SV	1, 5

NOTES:
1. PROVIDE SUBMITALS FOR REVIEW AND APPROVAL BEFORE PROCEEDING WITH NEW WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL COORDINATION OF BORDER TYPE.
3. PROVIDE 12" HIGH SHEET METAL PLENUM BEHIND GRILLE FOR DUCT CONNECTION. PAINT INSIDE OF PLENUM FLAT BLACK.
4. PROVIDE BALANCING DAMPER IN BRANCH DUCTWORK OF DIFFUSER/REGISTER.
5. PROVIDE BALANCING DAMPER ACCESSORY IN NECK OF REGISTER.

NATURAL GAS UNIT HEATERS

TAG	LOCATION	TYPE	AIRFLOW (CFM)	GAS HEAT		DUCT SIZES		GAS CONNECTION		ELECTRICAL				WEIGHT (LBS.)	BASIS OF DESIGN		NOTES
				CAPACITY (MBH)	OUTPUT (MBH)	VENT	COMBUSTION AIR	PIPE SIZE	PRESSURE (" W.G.)	MOTOR HP	MCA	MOCP	V/PH/HZ		MANU	MODEL #	
GUH-1	MULTIPLE LOCATIONS	SEPARATED COMBUSTION	1600	100	83	4"	4"	1/2"	7" - 14"	1/10	7.5	15	115V/1PH/60Hz	200	TRANE	GANE010ATA	ALL

NOTES:
1. PROVIDE PROGRAMMABLE HEATING-ONLY THERMOSTAT MOUNTED TO HEATER CABINET WITH GUARD. SET AT 65F (ADJUSTABLE) DURING OCCUPIED MODE AND 50F (ADJUSTABLE) DURING SETBACK MODE.
2. PROVIDE CONCENTRIC VENT KIT FOR SINGLE ROOF OR WALL PENETRATION FOR COMBUSTION AIR AND VENT DUCTS.
3. PROVIDE TYPE-B DOUBLE WALL VENT PER HEATER MANUFACTURER RECOMMENDATIONS.
4. PROVIDE 409 STAINLESS STEEL HEAT EXCHANGER.
5. PROVIDE OSHA FAN GUARD, AND HORIZONTAL AND VERTICAL DISCHARGE LOUVERS.

NATURAL GAS TUBULAR INFRA-RED HEATERS

DESIGNATION	LOCATION	TYPE	MTG HEIGHT (FT)	TUBE LENGTH (FT)	GAS HEAT	VENT / FLUE	GAS CONNECTION		ELECTRICAL			WEIGHT (LBS)	BASIS OF DESIGN		NOTES
					CAPACITY (MBH)		PIPE SIZE	PRESSURE (" W.G.)	VA	MOCP	V/PH/HZ		MANU	MODEL #	
IR-20	MULTIPLE LOCATIONS	TUBULAR INFRA-RED HEATER	22	20	80	4"	1/2"	5" - 14"	145	15	115V/1PH/60Hz	111	SCHWANK	STS-JZ-80-20	ALL
IR-40	MULTIPLE LOCATIONS	TUBULAR INFRA-RED HEATER	22	40	125	4"	1/2"	5" - 14"	145	15	115V/1PH/60Hz	197	SCHWANK	STS-JZ-130-40	ALL

NOTES:
1. PROVIDE 24V WALL-MOUNTED THERMOSTAT ON INSULATED SUBBASE.
2. PROVIDE TYPE-B DOUBLE WALL VENT UP THRU ROOF TO ROOF CAP PER HEATER MANUFACTURER RECOMMENDATIONS.
3. PROVIDE WEATHERPROOF WALL CAP AT EXTERIOR WALL AND 4" COMBUSTION AIR INTAKE DUCT TO HEATER INTAKE.

ELECTRIC WALL-MOUNTED HEATERS

DESIGNATION	LOCATION	TYPE	ELEC		BASIS OF DESIGN		NOTES
			KW	V/PH/HZ			
EH-1	VARIES	ELEC	3.0	208V/1PH/60Hz	TRANE	UHWA SERIES 50	1, 2, 3

NOTES:
1. PROVIDE UNIT-MOUNTED INTEGRAL TAMPER PROOF THERMOSTAT AND INTEGRAL UNIT-MOUNTED CIRCUIT BREAKER DISCONNECT.
2. SURFACE MOUNTING WALL BOX
3. TEMPERATURE SETPOINT AT 60 DEG F.

INDIRECT-FIRED MAKE-UP AIR UNITS

DESIGNATION	LOCATION	SERVICE	FUEL TYPE	FAN					GAS HEATER				GAS SUPPLY		ELECTRICAL				MANU. NAME & MODEL NO.	REMARKS
				CFM	ESP	RPM	MOTOR HP	MOTOR TYPE	INPUT CAPACITY MBH	OUTPUT CAPACITY MBH	TEMP RISE	MIN. TURNDOWN	CONNECTION	PRESSURE	VOLTS/PH/Hz	FLA	MOCP			
AHU-1	LARGE VEHICLE SHOP #100	HEAT & VENTILATE	NATURAL GAS	15000	1.0	2055	15.0	ODP	1200	970	59	20 : 1	1.5"	5-10" W.C.	480V/3PH/60Hz	26.9	45		TRANE CLIMATE CHANGER CSAA021	ALL

NOTES:
1. PROVIDE SEPARATED COMBUSTION POWER-VENTED GAS HEAT SECTION, DIRECT-DRIVE PLENUM FAN SECTION W/ INTERNAL SPRING ISOLATORS, AND 4" ANGLED MERV 8 FILTER MIXING BOX SECTION.
2. PROVIDE ELECTRONIC MODULATING ETL INDIRECT-FIRED BURNER, SET TO MAINTAIN SUPPLY TEMPERATURE AT 65F MINIMUM (ADJUSTABLE).
3. MOUNT AIR HANDLING UNIT ON 4" CONCRETE EQUIPMENT PAD. PAD SHALL BE 6" WIDER AND LONGER THAN EQUIPMENT FOOTPRINT WITH EQUIPMENT CENTERED ON PAD.
4. PROVIDE FACTORY DISCONNECT SWITCH, VARIABLE FREQUENCY DRIVE, CONVENIENCE OUTLET, AND AIR PROVING SWITCH.
5. PROVIDE 409 STAINLESS STEEL HEAT EXCHANGER WITH 10 YEAR PARTS AND LABOR WARRANTY.
6. PROVIDE HINGED ACCESS DOORS ON LEFT SIDE (WHILE FACING WITH THE DIRECTION OF AIRFLOW).
7. PROVIDE FACTORY REMOTE CONTROL PANEL AND INTERLOCK RELAYS TO ACTIVATE CORRESPONDING EXHAUST FAN.
8. PROVIDE 2-POSITION OA AND RA DAMPERS WITH SPRING RETURN FOR MIXED AIR APPLICATION. DAMPERS SHALL SWITCH FROM MINIMUM OA TO 100% OA IN EMERGENCY AND SUMMER VENTILATION MODES.
9. PROVIDE SEPARATE COMBUSTION AIR AND TYPE-B DOUBLE WALL VENT UP TO CONCENTRIC VENT KIT TERMINATION AT ROOF.
10. GAS FURNACE SECTION REQUIRES SEPARATE 115V/1PH CIRCUIT. MCA = 4.83 A, MOCP = 15.0 A.

TAP ARCHITECTURE

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SEAL

PROFESSIONAL ENGINEER
LICENSED
OWEN D. GWIN
24940
4/30/21
OKLAHOMA

PROJECT

CITY OF MOORE
PUBLIC WORKS
512 NW 27TH STREET
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ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

HVAC SCHEDULES

SHEET NUMBER

M601

PROJECT NUMBER

1707.3

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING NUMBER WITHIN OR ADJACENT TO FIXTURE INDICATES FIXTURE TYPE. RE: FIXTURE SCHEDULE
(2)	LIGHTING FIXTURE, RECESSED IN CEILING, UNO
(2)	LIGHTING FIXTURE ON EMERGENCY OR STANDBY POWER SOURCE
(2)	LIGHTING FIXTURE RECESSED, SURFACE OR PENDANT MOUNTED, UNO
(2)	STRIP LIGHTING FIXTURE
2	STRIP LIGHTING FIXTURE
2	STRIP LIGHTING FIXTURE ON EMERGENCY OR STANDBY POWER SOURCE
(2)	LIGHTING FIXTURE WALL MOUNTED
2	LIGHTING FIXTURE CEILING MOUNTED
2	LIGHTING FIXTURE ON EMERGENCY OR STANDBY POWER SOURCE
2	LIGHTING FIXTURE WALL MOUNTED
2	WALLWASH LIGHTING FIXTURE. OPEN SIDE INDICATES DIRECTION OF ILLUMINATION.
E1	EMERGENCY WALL PACK FIXTURE
X1	EXIT LIGHT WALL MOUNTED 8'–0" AFF TO CENTER, UNO SHADED AREA(S) INDICATE ILLUMINATED FACE(S)
X1	EXIT LIGHT CEILING MOUNTED
2	POLE MOUNTED LIGHTING FIXTURE
	SWITCHES MOUNT 46" AFF TO CENTER, UNO SUBSCRIPTS: WP WEATHERPROOF (IN USE) (CAST METAL) EP EXPLOSIONPROOF LV LOW VOLTAGE P PILOT LIGHT C COUNTER TOP MOUNTED (MOUNT 5" ABOVE BACKSPLASH TO CENTER)
$	SINGLE POLE, SINGLE THROW WALL SWITCH
$2	DOUBLE POLE, SINGLE THROW WALL SWITCH
$3	THREE WAY WALL SWITCH
$4	FOUR WAY WALL SWITCH
$D	DIMMER SWITCH
$E	PRESET LIGHTING CONTROL ENTRY SWITCH
$K	KEY SWITCH. LEVITON #122*–2KL SERIES OR APPROVED EQUAL WITH STANLESS STEEL COVERPLATE.
$LV	LOW VOLTAGE SWITCH
$LV/K	LOW VOLTAGE MOMENTARY CONTACT SPDT, CENTER OFF, KEY SWITCH.
$M	MANUAL MOTOR STARTER
$OS	OCCUPANCY SENSOR WALL SWITCH
$T	DIGITAL TIMER SWITCH
	RECEPTACLES MOUNT 18" AFF TO CENTER, UNO SUBSCRIPTS: GFI GROUND FAULT CIRCUIT INTERRUPTER WP WEATHERPROOF (IN USE) (CAST METAL) EP EXPLOSIONPROOF DL DAMP LOCATION FLIPCOVER SP SURGE PROTECTED IG ISOLATED GROUND C COUNTER TOP MOUNTED (MOUNT 5" ABOVE BACKSPLASH TO CENTER)
	SIMPLEX RECEPTACLE OUTLET
	DUPLEX RECEPTACLE OUTLET
	QUADPLEX RECEPTACLE OUTLET
	250V, TWIST LOCK, L6–20R RECEPTACLE OUTLET
	CLOCK OUTLET
	125/250V, NEMA 14–50R RECEPTACLE MOUNTED 36" AFF, UNO. PROVIDE MATCHING PIGTAIL FOR EACH OUTLET SHOWN ON DRAWINGS.
	SIMPLEX FLOOR OUTLET
	DUPLEX FLOOR OUTLET
	QUADPLEX FLOOR OUTLET
	SPECIAL PURPOSE FLOOR OUTLET, RE: PLANS
	ACCESS FLOOR SERVICE MODULE – POWER ONLY
	ACCESS FLOOR SERVICE MODULE – POWER AND COMMUNICATIONS
	COMMUNICATIONS PROVIDE 4" SQUARE, 2–1/8" DEEP BOX WITH APPROPRIATE SINGLE–GANG DEVICE RING FLUSH MTD 18" AFF TO CENTER AND 3/4" CONDUIT WITH PULL STRING ROUTED TO THE DATA CABINET, UNO.
	TELEPHONE OUTLET
W	WALL MOUNT TELEPHONE AT 54" AFF TO CENTER, UNO.
	DATA OUTLET
	COMBINATION TELEPHONE/DATA OUTLET
	FLOOR TELEPHONE OUTLET
	FLOOR DATA OUTLET
	FLOOR COMBINATION TELEPHONE/DATA OUTLET

SYMBOL	DESCRIPTION
	PAGING/SOUND/INTERCOM SUBSCRIPTS: R RECESSED S SURFACE DB DOUBLE BAFFLE WP WEATHERPROOF VC VOLUME CONTROL
S	SPEAKER RECESSED IN CEILING, UNO
S	SPEAKER WALL MOUNTED
	SPEAKER – TRUMPET TYPE, WALL MOUNTED, UNO
	BUZZER
$VC	VOLUME CONTROL WALL MOUNTED 46" AFF TO CENTER, UNO
	INTERCOM STATION CALL–IN SWITCH
	CIRCUITING/RACEWAY BRANCH CIRCUIT CONCEALED ABOVE CEILING OR WITHIN WALL. TICK MARKS INDICATE NUMBER OF CONDUCTORS, ( ) INDICATES GROUND CONDUCTOR, NO TICK MARKS INDICATES 2 #12, 1 #12GND., 3/4"C., UNO
	CONDUIT ROUTED EXPOSED
	CONDUIT ROUTED CONCEALED WITHIN OR BELOW FLOOR OR CONCRETE
	HOMERUN TO PANEL INDICATED. ARROWHEADS INDICATE NUMBER OF CCTS.
(PC)	PART CIRCUIT HOMERUN
LV	LOW VOLTAGE WIRING IN CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT CHANGE IN ELEVATION
	CONDUIT CAPPED FOR FUTURE USE
	CONDUIT SEAL (APPLETON #EYSEF OR EQUAL)
	EXISTING CONDUIT TO BE REMOVED
C C	CABLE TRAY
W W	WIREWAY
D D	DUCTBANK
B B	BUSWAY
	BELOW RAISED ACCESS FLOOR 3/4" LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT WITH PULLWIRE FOR TELECOMMUNICATIONS
T	EMT SIZED AS NOTED WITH PULLWIRE FOR TELECOMMUNICATIONS
P	3/4" LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT WITH 2 #12, 1 #12 GND. FOR POWER, UNO
	POWER DISTRIBUTION 480V PANELBOARD SURFACE MOUNTED, UNO
	480V PANELBOARD FLUSH MOUNTED, UNO
	208V PANELBOARD SURFACE MOUNTED, UNO
	208V PANELBOARD FLUSH MOUNTED, UNO
	SAFETY DISCONNECT SWITCH XX = FUSE SIZE (NF=NON–FUSED) YY = SWITCH SIZE
	SAFETY DISCONNECT SWITCH PROVIDED WITH EQUIPMENT
	MOTOR STARTER X = STARTER NEMA SIZE YY = MCP SIZE, UNO (FYY=FUSE SIZE)
	MOTOR STARTER OR CONTROL PANEL FURNISHED WITH EQUIPMENT
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH X = STARTER NEMA SIZE YY = MCP SIZE, UNO (FYY=FUSE SIZE)
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH OR CONTROL PANEL PROVIDED WITH EQUIPMENT
VFD	VARIABLE FREQUENCY DRIVE
	MOTOR (HORSEPOWER AS INDICATED)
T	TRANSFORMER
J	JUNCTION BOX
J	JUNCTION BOX, WALL MOUNTED
PB	PULL BOX
J	UNDERFLOOR DUCT JUNCTION BOX
	CONTROL/MISC PUSHBUTTON STATION
PE	PHOTOELECTRIC CELL. MOUNT FACING NORTH WHENEVER POSSIBLE
T	THERMOSTAT OR TEMPERATURE SENSOR. RE: MECHANICAL
LS	CONTROL DEVICE: LS = LIMIT SWITCH, FS = FLOAT SWITCH, SV = SOLENOID VALVE
	GROUND ROD
	GROUND WELL
M	METER

SYMBOL	DESCRIPTION
	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FSA	FIRE ALARM SYSTEM ANNUNCIATOR
F	MANUAL PULL STATION (MTD. 46" AFF TO CENTER, UNO)
	ALARM HORN
	COMBINATION HORN/STROBE (MOUNTING HEIGHT AS REQ. BY LOCAL AHJ)
	ALARM BELL
	COMBINATION BELL/STROBE (MOUNTING HEIGHT AS REQ. BY LOCAL AHJ)
	CEILING MOUNTED ALARM STROBE
	CEILING MOUNTED COMBINATION HORN/STROBE
	ALARM STROBE LIGHT (MOUNTING HEIGHT AS REQ. BY LOCAL AHJ)
	SMOKE DETECTOR (UF = UNDERFLOOR)
	HEAT DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	DOOR HOLDER
CM	CONTROL MODULE
AM	INDIVIDUAL ADDRESSABLE MODULE
MM	MONITOR MODULE
	SECURITY/INTRUSION ALARM
DS	INTRUSION ALARM DOOR SWITCH
DL	REMOTE DOOR LOCK/UNLOCK CONNECTION
DE	DOOR ENTRY DEVICE CONTACT
DX	DOOR EXIT DEVICE CONTACT
DO	DOOR OPERATOR CONNECTION
CR	CARD READER
	SECURITY CAMERA
	ELEMENTARY DIAGRAM CIRCUIT BREAKER XX = TRIP SIZE YY = FRAME SIZE
	DRAW OUT CIRCUIT BREAKER
	FUSE
	SWITCH
	FUSED SWITCH
	TRANSFORMER
	DELTA PRIMARY, WYE GROUNDED SECONDARY
	MEDIUM VOLTAGE LOADBREAK SEPARABLE CONNECTOR
	MEDIUM VOLTAGE DEADBREAK SEPARABLE CONNECTOR
	GROUND
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	OVERLOAD RELAY
	LIGHTNING ARRESTOR
A	AMMETER
V	VOLTMETER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
	PILOT LIGHT (R=RED, G=GREEN, A=AMBER)
Cxx	RELAY COIL (SUBSCRIPT INDICATES NUMBER OF CONTACTS)
xx	NORMALLY OPEN CONTACT (SUBSCRIPT INDICATES COIL AND CONTACT NUMBER)
xx	NORMALLY CLOSED CONTACT
OL	THERMAL OVERLOAD RELAY CONTACT
	SOLENOID
	NORMALLY OPEN PUSHBUTTON
	NORMALLY CLOSED PUSHBUTTON
	HAND–OFF–AUTO SWITCH
	DOUBLE THROW SWITCH
	NORMALLY CLOSED LIMIT SWITCH
	NORMALLY OPEN LIMIT SWITCH
	PRESSURE SWITCH
	TEMPERATURE SWITCH (FS=FREEZE STAT)
	FLOAT SWITCH
	FLOW SWITCH

NOTE: ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
A OR AMP	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
AIC	SYMMETRICAL AMPS INTERRUPTING CAPACITY
ARF	ABOVE RAISED FLOOR
AWG	AMERICAN WIRE GAUGE
AV	AUDIO/VISUAL
BACS	BUILDING AUTOMATION CONTROL SYSTEM
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BKR	BREAKER
BOF	BOTTOM OF FIXTURE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CIRCUIT
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
EG	EQUIPMENT GROUND
ELEC	ELECTRICAL
EMCS	ENERGY MANAGEMENT & CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EP	EXPLOSION PROOF
ETC.	ET CETERA
EWC	ELECTRIC WATER COOLER
EXIST. OR E	EXISTING
FA	FIRE ALARM
FIC	FIBER OPTIC INTERCONNECT CENTER
FMC	FLEXIBLE METALLIC CONDUIT
GFI OR GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND.	GROUND
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
IA	INTRUSION ALARM
IC	INTERCOM
IE.	THAT IS
IG	ISOLATED GROUND
KV	KILOVOLTS
KVA	KILOVOLT AMPERES
KWH	KILOWATT HOUR
LTFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LV	LOW VOLTAGE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MH	MANHOLE
MIN	MINIMUM
MISC.	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTG	MOUNTING
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEUT.	NEUTRAL
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NL	NIGHT LIGHT (CONNECT TO UNSWITCHED CIRCUIT)
OC	ON CENTER
OH	OVERHEAD
PAF	PAINT AFTER FABRICATION
PC	PART CIRCUIT
PNL	PANELBOARD
POS	POINT OF SALE
PTT	PUSH TO TEST
PVC	POLYVINYL CHLORIDE
RE:	REFERENCE
RGSC	RIGID GALVANIZED STEEL CONDUIT
SCH.	SCHEDULE
SPECS	CONTRACT SPECIFICATIONS
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
S/N	SOLID NEUTRAL
TOF	TOP OF FIXTURE
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UC	UNDER COUNTER
UG	UNDERGROUND
UGC	UNDERGROUND COMMUNICATIONS
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHERPROOF
WPWIU	WEATHERPROOF–WHILE–IN–USE
W/	WITH
W/O	WITHOUT
XFMR	TRANSFORMER
ø	PHASE
+48"	MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER, UNO
–48"	MOUNTING DEPTH BELOW FINISHED FLOOR TO CENTER, UNO

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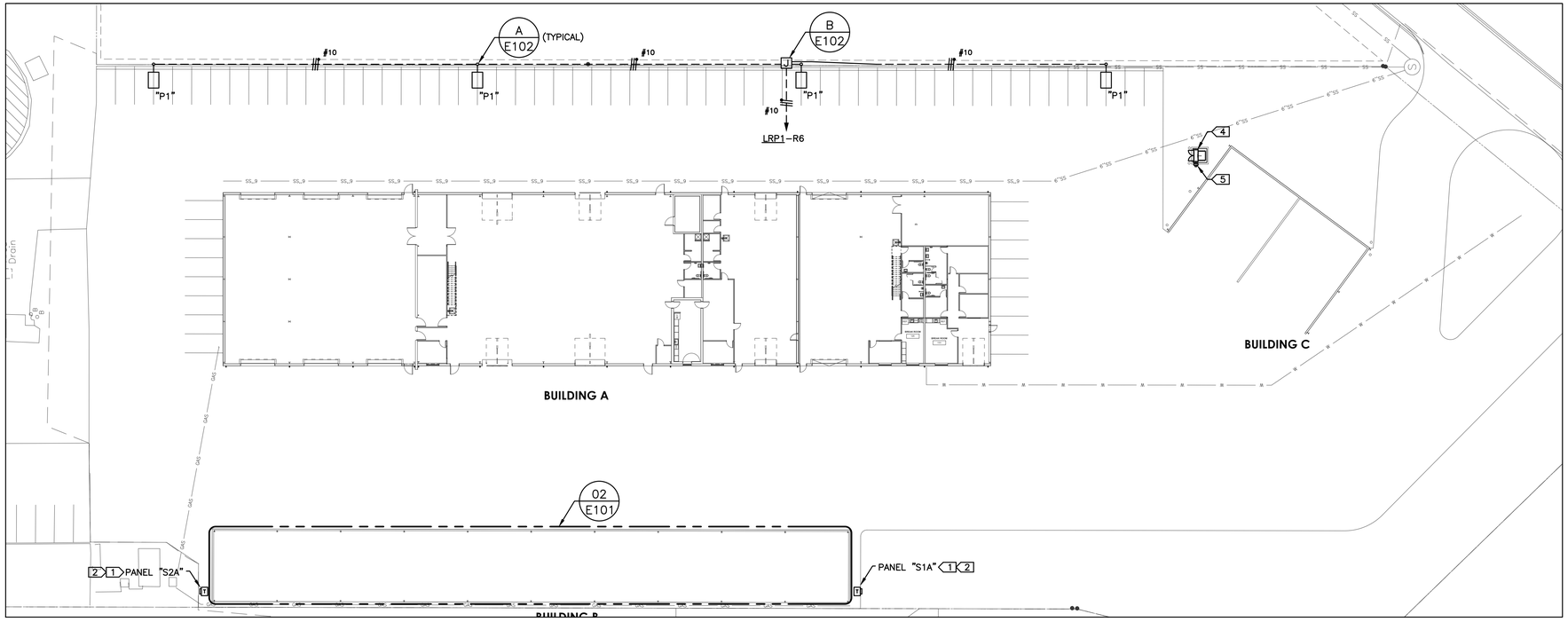
ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE
ELECTRIC LEGEND AND ABBREVIATIONS

SHEET NUMBER
E100

PROJECT NUMBER
1707.3



NORTH

01 ELECTRICAL SITE PLAN

SCALE: 1"= 30'-0"

GENERAL NOTES:

A. CONTRACTOR SHALL EXERCISE EXTREME CARE TO MAINTAIN ALL EXISTING UTILITIES WITHOUT INTERRUPTION. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY DAMAGE INADVERTENTLY RENDERED TO EXISTING UTILITIES BY HIS WORK.

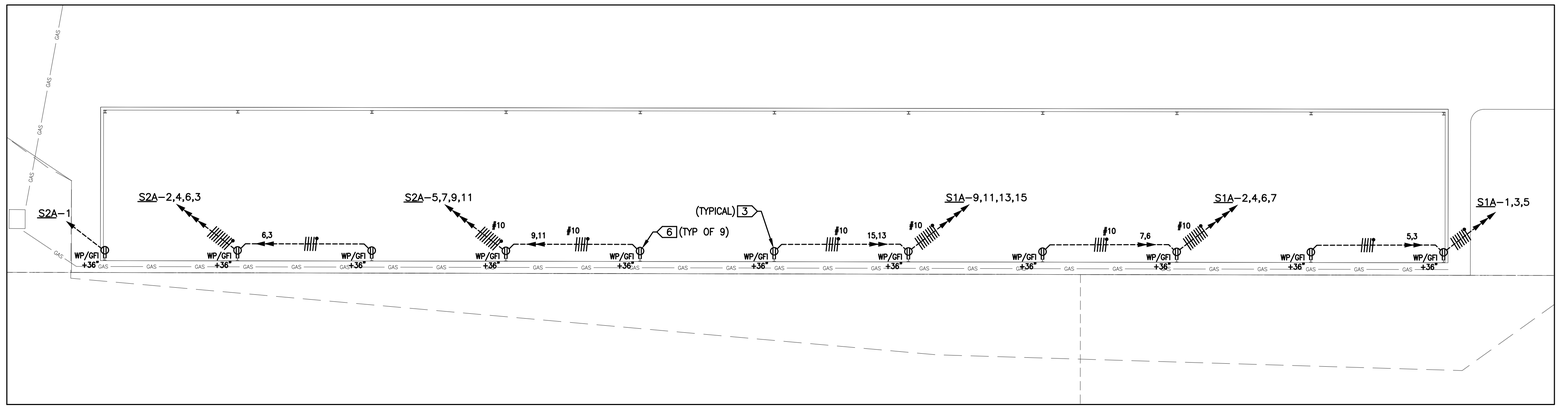
B. REFERENCE CIVIL DRAWINGS FOR OTHER EXISTING UTILITIES NOT SHOWN ON THIS DRAWING. INFORMATION REPRESENTED BETWEEN THIS DRAWING AND CIVIL DRAWINGS IS THE BEST INFORMATION AVAILABLE. HOWEVER, ACCURACY IS NOT GUARANTEED, AND OTHER UTILITIES MAY BE PRESENT BEYOND WHAT ARE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT ALL UTILITIES WHETHER SHOWN OR NOT.

C. CONTRACTOR SHALL DAYLIGHT ALL EXISTING UTILITIES BY HAND BEFORE COMMENCING WITH MACHINE DIGGING.

D. MINIMUM CONDUIT SIZE THIS SHEET SHALL BE 1", ROUTED AT LEAST 24" BFG, UNO.

KEYED NOTES:

1. MINI POWER ZONE PAD MOUNTED. PROVIDE (2) 1" SPARE CONDUITS STUBBED OUT AND CAPPED BELOW GRADE IN GREEN SPACE. MARK ENDS WITH PINS DRIVEN FLUSH. IF WALL–MOUNTED UNIT IS UTILIZED, PROVIDE HOT–DIPPED GALVANIZED RACK WITH 36" DEEP FOOTINGS.
2. PROVIDE CONCRETE PAD. RE: STRUCTURAL DRAWINGS.
3. BLOCK HEATER OUTLET. UTILIZE GFCI BREAKERS AND LABEL OUTLET AS "GFCI PROTECTED". ENSURE OUTLET IS LOCATED MORE THAN 5'–0" FROM CNG FILL EQUIPMENT.
4. NEW PADMOUNT TRANSFORMER. PROVIDE CONCRETE PAD IN ACCORDANCE WITH UTILITY CONSTRUCTION STANDARDS. COORDINATE WITH UTILITY.
5. METERBASE WITH 1"C. 36" BFG TO TRANSFORMER SECONDARY COMPARTMENT. INSTALL PER UTILITY COMPANY REQUIREMENTS.
6. CONNECT EACH HALF OF DUPLEX RECEPTACLE TO DEDICATED CIRCUIT.



NORTH

02 BLOCK HEATER PAVILION

SCALE: 1/16"= 1'-0"

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CITY of MOORE OKLAHOMA 1893

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

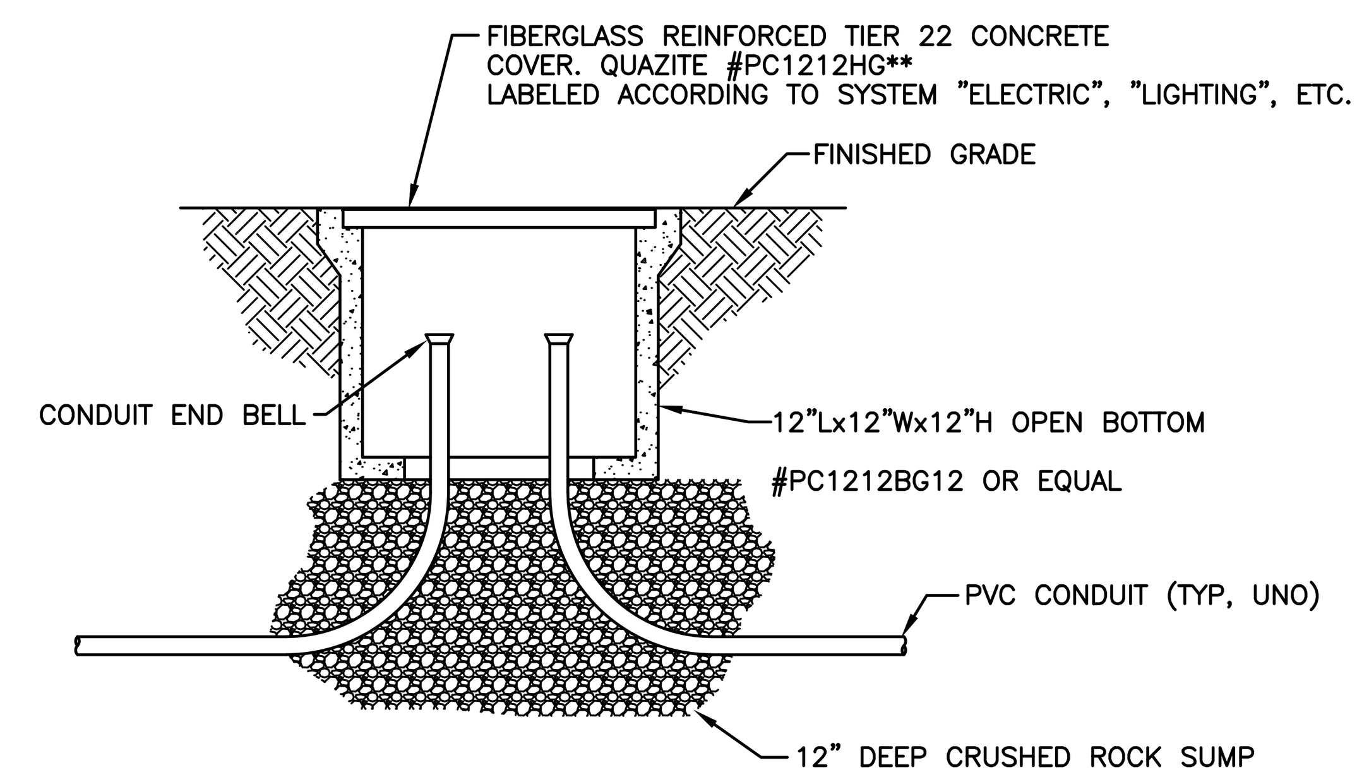
ELECTRICAL SITE PLAN

SHEET NUMBER

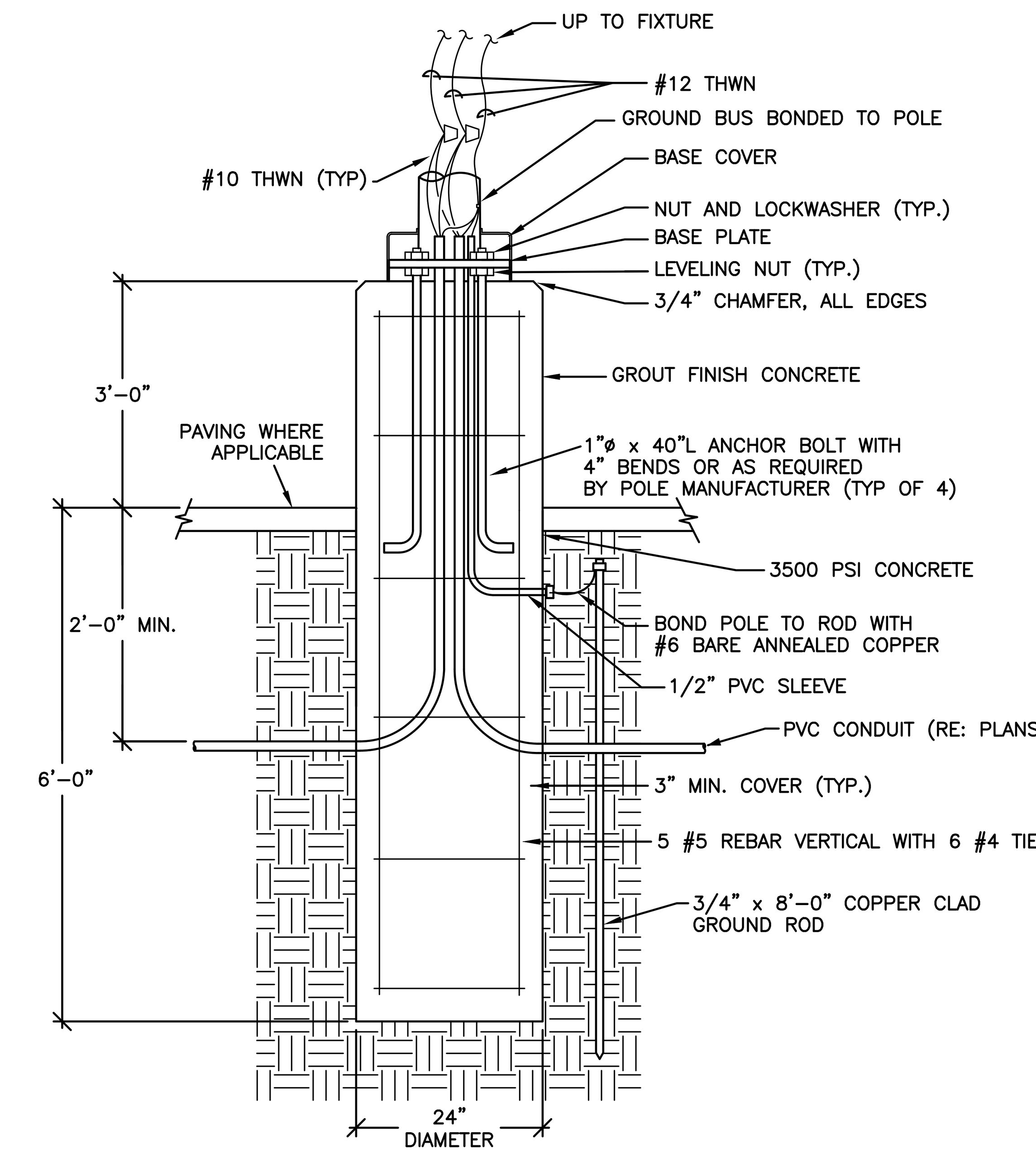
E101

PROJECT NUMBER

1707.3



B HANDHOLE DETAIL
SCALE: NONE



A POLE BASE DETAIL
SCALE: NONE

PANEL S1A SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 12/3R
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 90P/100S PANEL AMPS 100 PANEL AIC 10,000 MINIMUM
COMMENTS MINI POWER ZONE, 30KVA, PANELBOARD CONSTRUCTION. PROVIDE GFCI BREAKERS WHERE NOTED.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	20	1	O	BLOCK HEATER - FAR SOUTH (GFCI BREAKER)	1,650							
					1,650			BLOCK HEATER - MID SOUTH (GFCI BREAKER)	O	1	20	2
3	20	1	O	BLOCK HEATER - FAR SOUTH (GFCI BREAKER)		1,650						
						1,650		BLOCK HEATER - MID SOUTH (GFCI BREAKER)	O	1	20	4
5	20	1	O	BLOCK HEATER - FAR SOUTH (GFCI BREAKER)			1,650					
							1,650	BLOCK HEATER - MID SOUTH (GFCI BREAKER)	O	1	20	6
7	20	1	O	BLOCK HEATER - MID SOUTH (GFCI BREAKER)	1,650							
								SPARE (GFCI BREAKER)		1	20	8
9	20	1	O	BLOCK HEATER - SOUTH (GFCI BREAKER)		1,650						
								SPARE		1	20	10
11	20	1	O	BLOCK HEATER - SOUTH (GFCI BREAKER)			1,650					
								SPARE		1	20	12
13	20	1	O	BLOCK HEATER - SOUTH (GFCI BREAKER)	1,650							
								SPARE		1	20	14
15	20	1	O	BLOCK HEATER - SOUTH (GFCI BREAKER)		1,650						
								SPARE		1	20	16
17	20	1		SPARE (GFCI BREAKER)								
								SPARE		1	20	18
19	20	1		SPARE								
								SPACE				20
21	20	1		SPARE								
								SPACE				22
23	20	1		SPARE								
								SPACE				24
				TOTAL	6,600	6,600	4,950					

TOTAL CONNECTED LOAD 18.2 KVA
ESTIMATED DEMAND LOAD 18.2 KVA
DEMAND LINE AMPS 50

PANEL S2A SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 12/3R
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 90P/100S PANEL AMPS 100 PANEL AIC 10,000 MINIMUM
COMMENTS MINI POWER ZONE, 30KVA, PANELBOARD CONSTRUCTION. PROVIDE GFCI BREAKERS WHERE NOTED.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	20	1	O	BLOCK HEATER - FAR NORTH (GFCI BREAKER)	1,650							
					1,650			BLOCK HEATER - MID NORTH (GFCI BREAKER)	O	1	20	2
3	20	1	O	BLOCK HEATER - MID NORTH (GFCI BREAKER)		1,650						
						1,650		BLOCK HEATER - MID NORTH (GFCI BREAKER)	O	1	20	4
5	20	1	O	BLOCK HEATER - NORTH (GFCI BREAKER)			1,650					
							1,650	BLOCK HEATER - MID NORTH (GFCI BREAKER)	O	1	20	6
7	20	1	O	BLOCK HEATER - NORTH (GFCI BREAKER)	1,650							
								SPARE (GFCI BREAKER)		1	20	8
9	20	1	O	BLOCK HEATER - NORTH (GFCI BREAKER)		1,650						
								SPARE		1	20	10
11	20	1	O	BLOCK HEATER - NORTH (GFCI BREAKER)			1,650					
								SPARE		1	20	12
13	20	1		SPARE (GFCI BREAKER)								
								SPARE		1	20	14
15	20	1		SPARE								
								SPARE		1	20	16
17	20	1		SPARE								
								SPARE		1	20	18
19	20	1		SPARE								
								SPACE				20
21	20	1		SPARE								
								SPACE				22
23	20	1		SPARE								
								SPACE				24
				TOTAL	4,950	4,950	4,950					

TOTAL CONNECTED LOAD 14.9 KVA
ESTIMATED DEMAND LOAD 14.9 KVA
DEMAND LINE AMPS 41

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ISSUES
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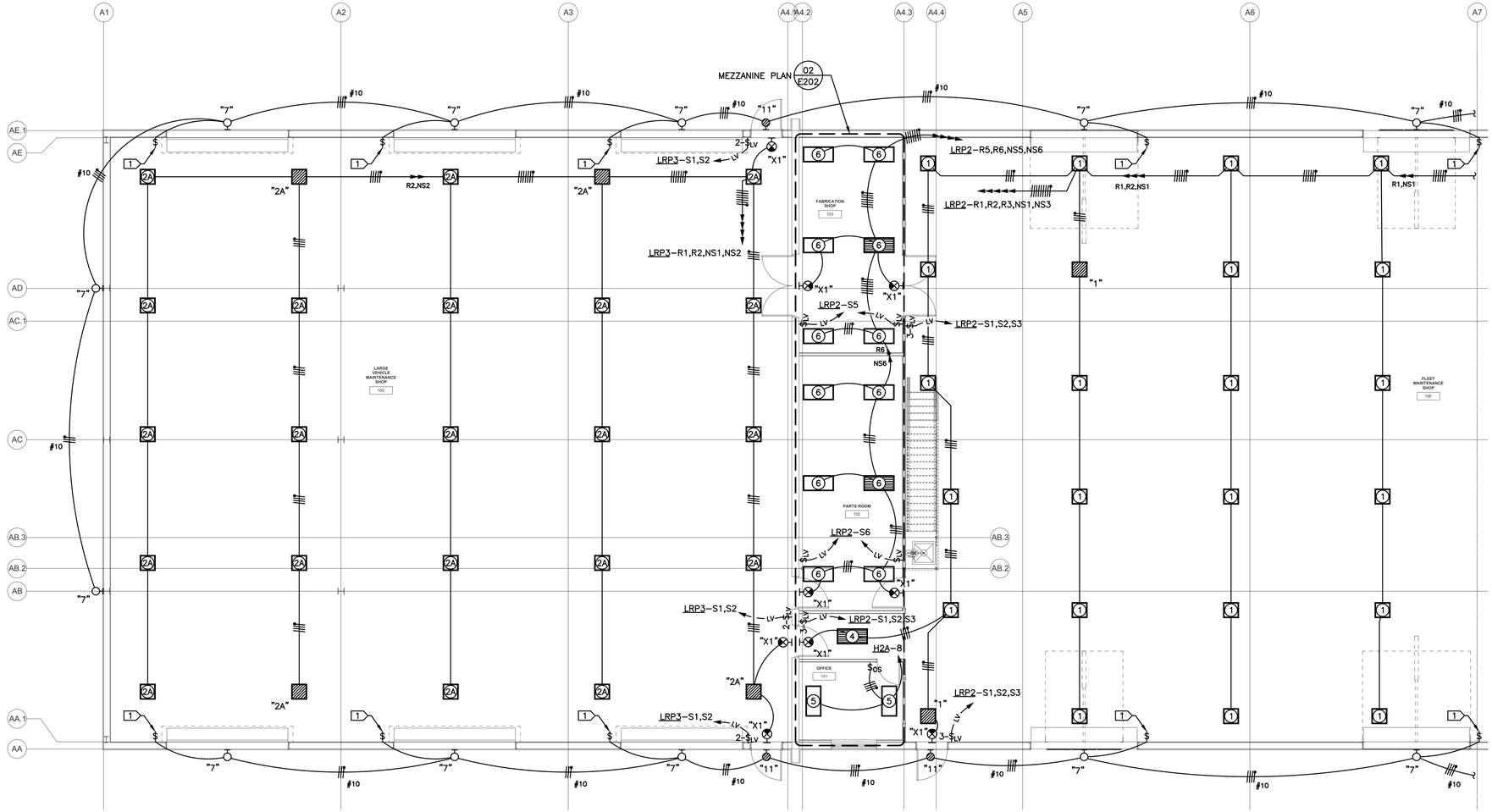
SHEET TITLE
ELECTRICAL SITE DETAILS

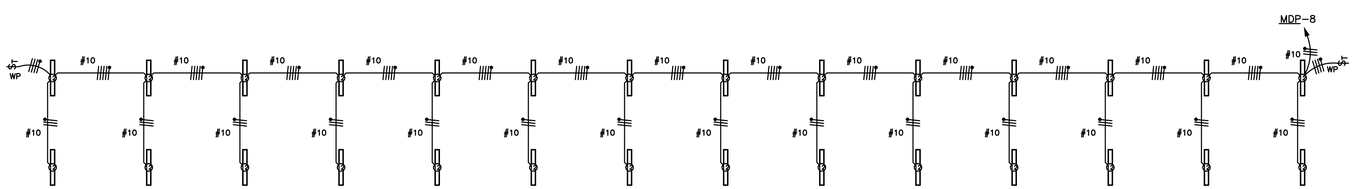
SHEET NUMBER
E102

PROJECT NUMBER
1707.3



01 PHASE 1 BULDING "A" LIGHTING PLAN - NORTH

SCALE: 1/8"= 1'-0"



01 BULDING "B" LIGHTING PLAN

SCALE: 1/8"= 1'-0"

KEY PLAN

GENERAL NOTES:

A. CONNECT ALL EMERGENCY AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR ON THE SAME CIRCUIT AS GENERAL LIGHTING IN THE ROOM.

B. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT.

C. 20A, 277V CIRCUITS LONGER THAN 200' IN LENGTH SHALL BE #10 AWG., 20A, 120V CIRCUITS LONGER THAN 100' IN LENGTH SHALL BE #10 AWG.

D. RE: ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED DEVICES.

E. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT CONDUITS AS REQUIRED BY ARCHITECT.

F. SMALL CASE SUBSCRIPTS INDICATE SWITCHING SCHEME.

G. ALL LOW VOLTAGE LIGHTING CONTROL CABLING SHALL BE PROVIDED IN CONDUIT. 3 #16, 1/2" C., UNO.

H. WHERE SWITCHES AND OCCUPANCY SENSORS ARE SHOWN IN THE SAME ROOM WIRE THE SWITCHING ON THE LOAD SIDE OF THE OCCUPANCY SENSOR.

KEYED NOTES:

1. SWITCH TO OVERRIDE PHOTOCELL.

OCCUPANCY SENSOR NOTES:

A. CONTRACTOR SHALL PROVIDE FACTORY PREPARED SHOP DRAWINGS WITH RECOMMENDED OCCUPANCY SENSING DEVICE MODEL NUMBERS AND LOCATIONS. THE SYSTEM SHALL BE GUARANTEED BY THE MANUFACTURER TO PERFORM PROPERLY.

B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

C. ULTRASONIC OR DUAL TECHNOLOGY SENSORS SHALL NOT BE MOUNTED CLOSER THAN 6'–0" FROM AIR SUPPLY OR RETURN REGISTERS.

D. APPROVED MANUFACTURES INCLUDE: WATTSTOPPER, SENSOR SWITCH, LUTRON AND HUBBELL.

E. PROVIDE 120V/277V, 20A POWER PACK FOR EACH LOW VOLTAGE SENSOR. WHERE SENSORS ARE SHOWN CONNECTED TOGETHER WITH LOW VOLTAGE WIRE, ONLY ONE POWER PACK SHALL BE PROVIDED AND SHALL BE CAPABLE OF POWERING ALL OTHER SENSORS SHOWN CONNECTED.

F. CONTRACTOR SHALL ADJUST SENSORS FOR OPTIMUM PERFORMANCE.

G. SET SENSORS FOR 30 MINUTE DELAY, UNO.

LIGHTING CONTROL PARTIAL LEGEND:

- (MD)1 LARGE AREA CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- (MD)2 CORNER MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR.
- (MD)3 CORRIDOR DUAL TECHNOLOGY OCCUPANCY SENSOR.
- $OS WALL BOX LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR. COLOR BY ARCHITECT.
- $T DIGITAL TIME SWITCH WITH AUDIBLE AND VISUAL ALARM. COLOR BY ARCHITECT.
- GTD 20A GENERATOR TRANSFER DEVICE, SUBSCRIPT INDICATES FULL LOAD RATING. MOUNT INSIDE LIGHTING FIXTURE OR ABOVE ACCESSIBLE CEILING.
- CIRCUITING WITH DIMMING PAIR INDICATED BY SHORT TICKS. ALL CONDUCTORS SHALL HAVE 600V INSULATION.
- EMERGENCY LIGHTING CIRCUIT (SEPARATE CONDUIT PER NEC).

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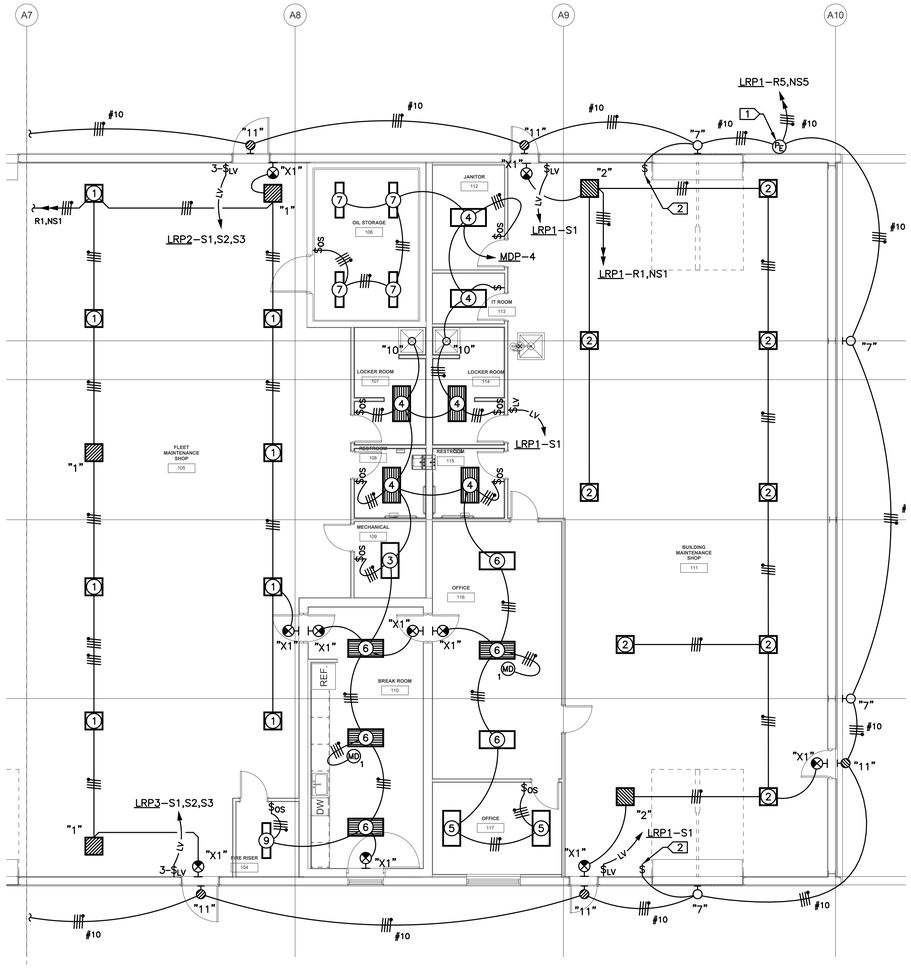
ISSUES
REVISIONS

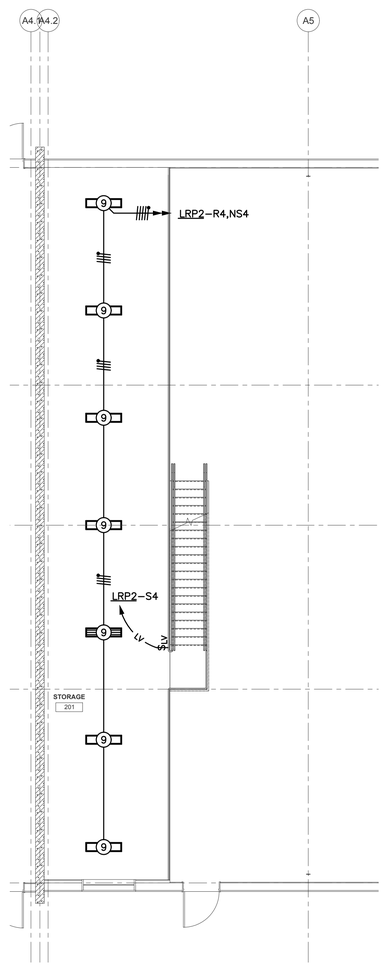
100% ISSUE FOR BID
04.30.2021

SHEET TITLE
PHASE 1 BUILDING A LIGHTING PLAN - NORTH

SHEET NUMBER
E201

PROJECT NUMBER
1707.3





NORTH

01 PHASE 1 BULDING "A" LIGHTING PLAN - SOUTH

SCALE: 1/8"= 1'-0"

NORTH

02 BLDG "A" MEZZ LIGHTING PLAN

SCALE: 1/8"= 1'-0"

LOW VOLTAGE RELAY PANEL "LRP1"

RELAY	CIRCUIT	LOAD CONTROLLED	SWITCH/SENSOR	REMARKS
R1	MDP-2	BUILDING MAINTENANCE MAIN FLOOR	SWITCH S1	NOTE 2
R2	H4A-2	STREET AND DRAINAGE SHOP	SWITCH S1	NOTE 2
R3	H4A-4	SIGN SHOP AND STORAGE	SWITCH S2	NOTE 2
R4	H4A-4	SANITARY SHOP	SWITCH S3	NOTE 2
R5	MDP-4	EXTERIOR BUILDING	PHOTOCELL	NOTE 2
R6	MDP-6	PARKING LOT	PHOTOCELL	NOTE 3
R7		SPARE		
R8		SPARE		
NS1	MDP-2	BUILDING MAINTENANCE	NON-SWITCHED	NOTE 1
NS2	H4A-2	STREET AND DRAINAGE SHOP	NON-SWITCHED	NOTE 1
NS3	H4A-4	SIGN SHOP AND STORAGE	NON-SWITCHED	NOTE 1
NS4	H4A-6	SANITARY SHOP	NON-SWITCHED	NOTE 1
NS5	H4A-8	EXTERIOR BUILDING MOUNTED	NON-SWITCHED	NOTE 1

RELAY PANEL "FLRP" NOTES:
1. NONSWITCHED CIRCUITS SHALL PASS THROUGH RELAY PANEL DIRECTLY TO PANELBOARD, AND SHALL NOT BE SWITCHED BY A RELAY.
2. FLICK WARN AND TURN LIGHTS OFF AT SCHEDULED TIME, AND EVERY TWO HOURS THEREAFTER COORDINATE SCHEDULE WITH OWNER.
3. PHOTOCELL "ON" AND PHOTOCELL "OFF", DUSK TO DAWN CONTROL.
4. PHOTOCELL "ON" AND PHOTOCELL OR TIMED "OFF". COORDINATE TIME WITH OWNER.

LOW VOLTAGE RELAY PANEL "LRP2"

RELAY	CIRCUIT	LOAD CONTROLLED	SWITCH/SENSOR	REMARKS
R1	H2A-2	FLEET MAINTENANCE - SOUTH	SWITCH S1	NOTE 2
R2	H2A-4	FLEET MAINTENANCE - CENTER	SWITCH S2	NOTE 2
R3	H2A-6	FLEET MAINTENANCE - NORTH	SWITCH S3	NOTE 2
R4	H2A-8	MEZZANINE STORAGE	SWITCH S4	NOTE 2
R5	H2A-8	FABRICATION SHOP	SWITCH S5	NOTE 2
R6	H2A-8	PARTS STORAGE	SWITCH S6	NOTE 2
R7		SPARE		
R8		SPARE		
NS1	H2A-2	FLEET MAINTENANCE - SOUTH	NON-SWITCHED	NOTE 1
NS3	H2A-6	FLEET MAINTENANCE - NORTH	NON-SWITCHED	NOTE 1
NS4	H2A-8	MEZZANINE STORAGE	NON-SWITCHED	NOTE 1
NS5	H2A-8	FABRICATION SHOP	NON-SWITCHED	NOTE 1
NS6	H2A-8	PARTS STORAGE	NON-SWITCHED	NOTE 1

RELAY PANEL "PLRP" NOTES:
1. NONSWITCHED CIRCUITS SHALL PASS THROUGH RELAY PANEL DIRECTLY TO PANELBOARD, AND SHALL NOT BE SWITCHED BY A RELAY.
2. FLICK WARN AND TURN LIGHTS OFF AT SCHEDULED TIME, AND EVERY TWO HOURS THEREAFTER COORDINATE SCHEDULE WITH OWNER.
3. PHOTOCELL "ON" AND PHOTOCELL "OFF", DUSK TO DAWN CONTROL.
4. PHOTOCELL "ON" AND PHOTOCELL "OFF". COORDINATE TIME WITH OWNER.

LOW VOLTAGE RELAY PANEL "LRP3"

RELAY	CIRCUIT	LOAD CONTROLLED	SWITCH/SENSOR	REMARKS
R1	H3A-2	MAINTENANCE SHOP - SOUTH	SWITCH S1	NOTE 2
R2	H3A-4	MAINTENANCE SHOP - NORTH	SWITCH S2	NOTE 2
R3		SPARE		
R4		SPARE		
R5		SPARE		
R6		SPARE		
R7		SPARE		
R8		SPARE		
NS1	H3A-2	MAINTENANCE SHOP - SOUTH	NON-SWITCHED	NOTE 1
NS2	H3A-4	MAINTENANCE SHOP - NORTH	NON-SWITCHED	NOTE 1

RELAY PANEL "PLRP" NOTES:
1. NONSWITCHED CIRCUITS SHALL PASS THROUGH RELAY PANEL DIRECTLY TO PANELBOARD, AND SHALL NOT BE SWITCHED BY A RELAY.
2. FLICK WARN AND TURN LIGHTS OFF AT SCHEDULED TIME, AND EVERY TWO HOURS THEREAFTER COORDINATE SCHEDULE WITH OWNER.
3. PHOTOCELL "ON" AND PHOTOCELL "OFF", DUSK TO DAWN CONTROL.
4. PHOTOCELL "ON" AND PHOTOCELL "OFF". COORDINATE TIME WITH OWNER.

GENERAL NOTES:

A. CONNECT ALL EMERGENCY AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR ON THE SAME CIRCUIT AS GENERAL LIGHTING IN THE ROOM.

B. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT.

C. 20A, 277V CIRCUITS LONGER THAN 200' IN LENGTH SHALL BE #10 AWG., 20A, 120V CIRCUITS LONGER THAN 90' IN LENGTH SHALL BE #10 AWG.

D. RE: ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED DEVICES.

E. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT CONDUITS AS REQUIRED BY ARCHITECT.

F. SMALL CASE SUBSCRIPTS INDICATE SWITCHING SCHEME.

G. ALL LOW VOLTAGE LIGHTING CONTROL CABLING SHALL BE PROVIDED IN CONDUIT. 3 #16, 1/2" C., UNO.

H. WHERE SWITCHES AND OCCUPANCY SENSORS ARE SHOWN IN THE SAME ROOM WIRE THE SWITCHING ON THE LOAD SIDE OF THE OCCUPANCY SENSOR.

KEYED NOTES:

1. PROVIDE HEAVY-DUTY PHOTOCELL MOUNTED HIGH ON WALL FACING NORTH. TORK #2101 OR EQUAL. ROUTE PHOTOCELL THROUGH LRP-1.
2. SWITCH TO OVERRIDE PHOTOCELL.

OCCUPANCY SENSOR NOTES:

A. CONTRACTOR SHALL PROVIDE FACTORY PREPARED SHOP DRAWINGS WITH RECOMMENDED OCCUPANCY SENSING DEVICE MODEL NUMBERS AND LOCATIONS. THE SYSTEM SHALL BE GUARANTEED BY THE MANUFACTURER TO PERFORM PROPERLY.

B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

C. ULTRASONIC OR DUAL TECHNOLOGY SENSORS SHALL NOT BE MOUNTED CLOSER THAN 6'-0" FROM AIR SUPPLY OR RETURN REGISTERS.

D. APPROVED MANUFACTURES INCLUDE: WATTSTOPPER, SENSOR SWITCH, LUTRON AND HUBBELL.

E. PROVIDE 120V/277V, 20A POWER PACK FOR EACH LOW VOLTAGE SENSOR. WHERE SENSORS ARE SHOWN CONNECTED TOGETHER WITH LOW VOLTAGE WIRE, ONLY ONE POWER PACK SHALL BE PROVIDED AND SHALL BE CAPABLE OF POWERING ALL OTHER SENSORS SHOWN CONNECTED.

F. CONTRACTOR SHALL ADJUST SENSORS FOR OPTIMUM PERFORMANCE.

G. SET SENSORS FOR 30 MINUTE DELAY, UNO.

LIGHTING CONTROL PARTIAL LEGEND:

MD LARGE AREA CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.

MD1 CORNER MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR.

MD3 CORRIDOR DUAL TECHNOLOGY OCCUPANCY SENSOR.

$OS WALL BOX LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR. COLOR BY ARCHITECT.

$T DIGITAL TIME SWITCH WITH AUDIBLE AND VISUAL ALARM. COLOR BY ARCHITECT.

CIRCUITING WITH DIMMING PAIR INDICATED BY SHORT TICKS. ALL CONDUCTORS SHALL HAVE 600V INSULATION.

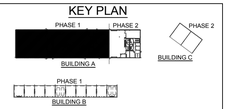
LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	DELIVERED LUMENS	INPUT WATTS	VOLTAGE	MOUNTING	NOTES
1	2' LED HIGH BAY LITHONIA#IBHST 18000LM SD080 MD MVOLT 0Z10 40K 80CRI	17,109	142	120 / 277	AIRCRAFT CABLE 18' AFF	*4
2	SAME AS TYPE "1" WITH HIGHER LUMES LITHONIA#IBHST 24000LM SD080 MD MVOLT 0Z10 40K 80CRI	23,643	216	120 / 277	AIRCRAFT CABLE 23' AFF	*4
2A	SAME AS TYPE "2" WITH HIGHER MOUNTING HIGHT LITHONIA#IBHST 24000LM SD080 MD MVOLT 0Z10 40K 80CRI	23,643	216	120 / 277	AIRCRAFT CABLE 23' AFF	*4
3	2X4 LED FLAT PANEL LOWEST LUMENS LITHONIA#EPANL 2X4 4000LM 80CRI 40K MIN10 MVOLT DGA24	4,240	38	120 / 277	DRYWALL	*1
4	SAME AS TYPE "3" WITH MEDIUM LOW LUMENS LITHONIA#EPANL 2X4 5400LM 80CRI 40K MIN10 MVOLT DGA24	5,679	49	120 / 277	DRYWALL	*1
5	SAME AS TYPE "3" WITH MEDIUM HIGH LUMENS LITHONIA#EPANL 2X4 6000LM 80CRI 40K MIN10 MVOLT DGA24	6,548	50	120 / 277	DRYWALL	*1
6	SAME AS TYPE "3" WITH HIGHEST LUMENS LITHONIA#EPANL 2X4 7200LM 80CRI 40K MIN10 MVOLT DGA24	7,657	66	120 / 277	DRYWALL	*1
7	LED WEGDE WALL PACK LITHONIA#WDGE1 LED P1 40K 80CRI VF MVOLT*	1,227	10	120/277	CENTERED ON OVERHEAD DOOR	
8	2' LED VANITY LIGHT LITHONIA#FMVTSL 24IN MVOLT 40K 90CRI BN	1,363	18	120 / 277	OVER MIRROR	
8A	4' LED VANITY LIGHT LITHONIA#FMVTSL 48IN MVOLT 40K 90CRI BN	2,689	33	120 / 277	OVER MIRROR	
9	4' LED STRIP LITHONIA#ZL1N L48 SMR 7000LM FST MVOLT 40K 80CRI	6,785	52	120/277	WALL MOUNT 10'-0" AFF	
9A	SAME AS TYPE "9" MOUNTED AT 20' AFF LITHONIA#ZL1N L48 SMR 7000LM FST MVOLT 40K 80CRI	6,785	52	120/277	AIRCRAFT CABLE 20' AFF	
10	6" LED DOWNLIGHT LITHONIA#LND6 40/10 L06 AR LD MVOLT GZ10	974	11	120/277	DRYWALL	
11	LED WALLPACK LITHONIA#WST LED P1 40K VF MVOLT DDBXD	1,639	12	120/277	ABOVE DOOR	*3
12	8' LED VAPOR TIGHT LED LITHONIA#FEM L96 12000LM IMACD MD MVOLT GZ10 40K 80CRI	12,168	76	120/277	AIRCRAFT CABLE 6" BELOW CEILING	
P1	POLE MOUNTED LED LITHONIA#DSX1 LED P3 40K T2M MVOLT SPA DDBXD	12,613	102	120/277	POLE MOUNTED 30' AFF	
X1	LED EXIT LIGHT, RED ON BLACK WITH BATTERY LITHONIA#LQM S W 3 R 120-277-ELN			120 / 277	UNIVERSAL RE: PLANS	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:
A. COORDINATE LAY-IN FIXTURES WITH CEILING GRID SIZE AND STYLE PROVIDED.
B. CONTRACTOR SHALL SUBMIT PRIOR APPROVAL SUBMITTALS TO ARCHITECT FOR APPROVAL IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.
C. FINAL APPROVAL OF ALL FIXTURES SHALL BE BY ARCHITECT.

LIGHTING FIXTURE SCHEDULE KEYED NOTES:
*1. WHERE FIXTURES ARE SHOWN HATCHED PROVIDE FACTORY INSTALLED EMERGENCY BATTERY BACKUP WITH AT LEAST 1400 CONTINOUS LUMEN OUTPUT. IOTA OR APPROVED EQUAL.
*2. STANDARD COLOR/FINISH SHALL BE SELECTED BY ARCHITECT.
*3. WHERE FIXTURES ARE SHOWN HATCHED PROVIDE FACTORY INSTALLED COLD WEATHER (ZERO DEGREE F) BATTERY BACKUP WITH AT LEAST 800 CONTINOUS LUMEN OUTPUT. IOTA OR APPROVED EQUAL.
*4. WHERE FIXTURES ARE SHOWN HATCHED PROVIDE FACTORY INSTALLED EMERGENCY BATTERY BACKUP WITH AT LEAST 25W CONTINOUS BATTERY OUTPUT. IOTA OR APPROVED EQUAL.

KEY PLAN



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ISSUES REVISIONS

100% ISSUE FOR BID
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SHEET TITLE

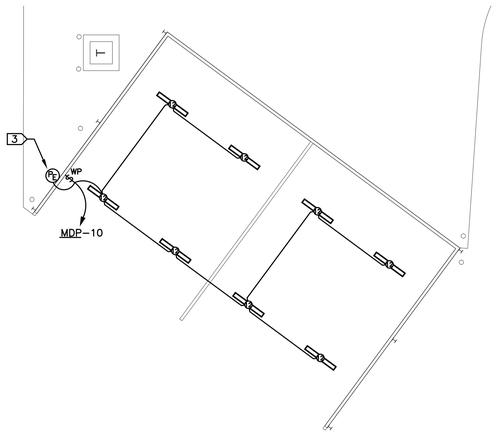
PHASE 1 BUILDING A LIGHTING PLAN - SOUTH

SHEET NUMBER

E202

PROJECT NUMBER

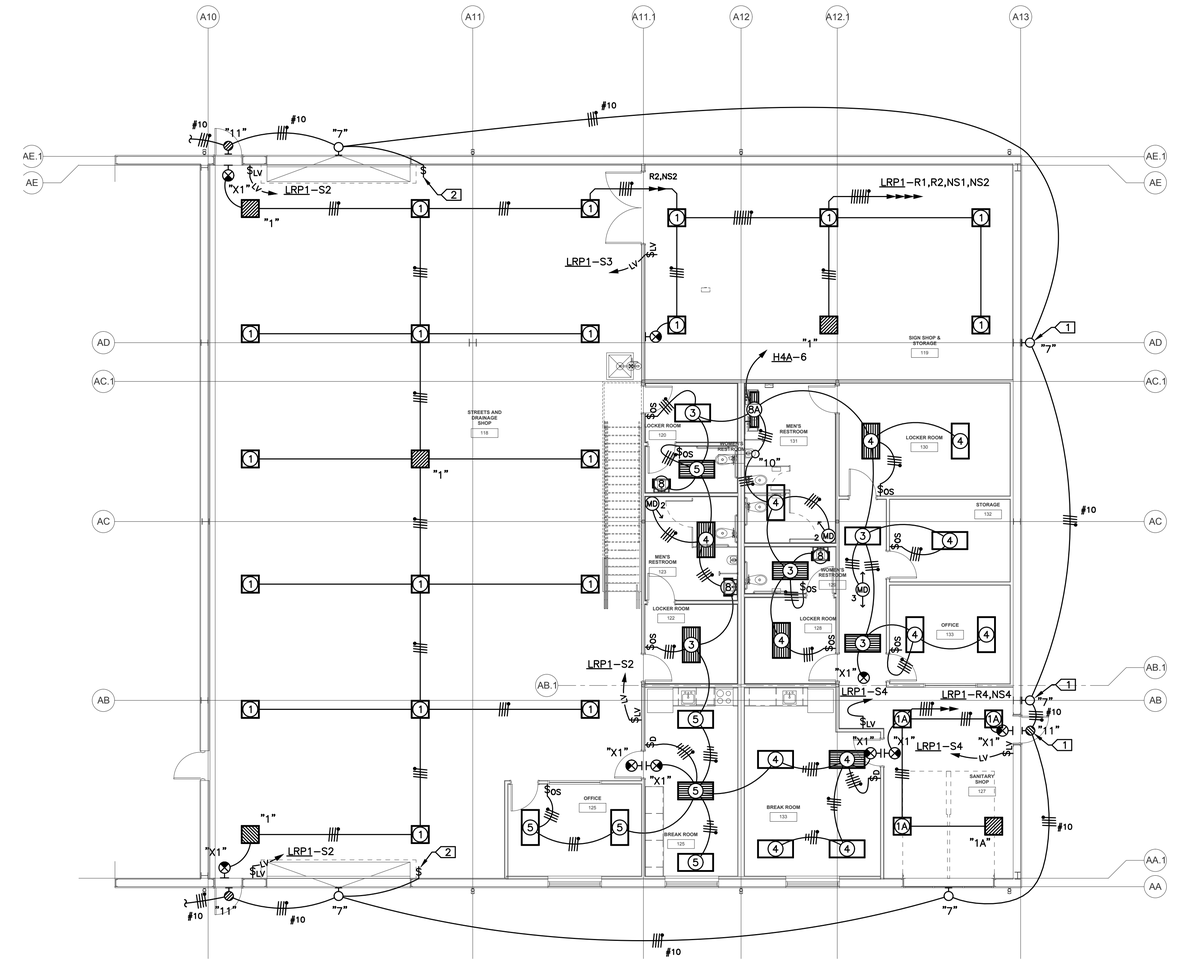
1707.3



NORTH

01 BULDING "C" LIGHTING PLAN

SCALE: 1/16"= 1'-0"

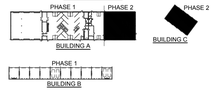


NORTH

01 PHASE 2 BULDING "A" LIGHTING PLAN

SCALE: 1/8"= 1'-0"

KEY PLAN



GENERAL NOTES:

A. CONNECT ALL EMERGENCY AND EXIT LIGHTS TO AN UNSWITCHED HOT CONDUCTOR ON THE SAME CIRCUIT AS GENERAL LIGHTING IN THE ROOM.

B. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT.

C. 20A, 277V CIRCUITS LONGER THAN 200' IN LENGTH SHALL BE #10 AWG., 20A, 120V CIRCUITS LONGER THAN 90' IN LENGTH SHALL BE #10 AWG.

D. RE: ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED DEVICES.

E. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT CONDUITS AS REQUIRED BY ARCHITECT.

F. SMALL CASE SUBSCRIPTS INDICATE SWITCHING SCHEME.

G. ALL LOW VOLTAGE LIGHTING CONTROL CABLING SHALL BE PROVIDED IN CONDUIT. 3 #16, 1/2" C., UNO.

H. WHERE SWITCHES AND OCCUPANCY SENSORS ARE SHOWN IN THE SAME ROOM WIRE THE SWITCHING ON THE LOAD SIDE OF THE OCCUPANCY SENSOR.

KEYED NOTES:

1. FIXTURE RELOCATED FROM PHASE 1.
2. SWITCH TO OVERRIDE PHOTOCELL.
3. MOUNT PHOTOCELL HIGH ON WALL FACING EAST. TORK #2101 OR APPROVED EQUAL. WIRE WALL SWITCH IN SERIES WITH PHOTOCELL.

OCCUPANCY SENSOR NOTES:

A. CONTRACTOR SHALL PROVIDE FACTORY PREPARED SHOP DRAWINGS WITH RECOMMENDED OCCUPANCY SENSING DEVICE MODEL NUMBERS AND LOCATIONS. THE SYSTEM SHALL BE GUARANTEED BY THE MANUFACTURER TO PERFORM PROPERLY.

B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

C. ULTRASONIC OR DUAL TECHNOLOGY SENSORS SHALL NOT BE MOUNTED CLOSER THAN 6'-0" FROM AIR SUPPLY OR RETURN REGISTERS.

D. APPROVED MANUFACTURES INCLUDE: WATTSTOPPER, SENSOR SWITCH, LUTRON AND HUBBELL.

E. PROVIDE 120V/277V, 20A POWER PACK FOR EACH LOW VOLTAGE SENSOR. WHERE SENSORS ARE SHOWN CONNECTED TOGETHER WITH LOW VOLTAGE WIRE, ONLY ONE POWER PACK SHALL BE PROVIDED AND SHALL BE CAPABLE OF POWERING ALL OTHER SENSORS SHOWN CONNECTED.

F. CONTRACTOR SHALL ADJUST SENSORS FOR OPTIMUM PERFORMANCE.

G. SET SENSORS FOR 30 MINUTE DELAY, UNO.

LIGHTING CONTROL PARTIAL LEGEND:

- (MD)1 LARGE AREA CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
- (MD)2 CORNER MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR.
- (MD)3 CORRIDOR DUAL TECHNOLOGY OCCUPANCY SENSOR.
- $OS WALL BOX LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR. COLOR BY ARCHITECT.
- $T DIGITAL TIME SWITCH WITH AUDIBLE AND VISUAL ALARM. COLOR BY ARCHITECT.
- GTD 20A GENERATOR TRANSFER DEVICE, SUBSCRIPT INDICATES FULL LOAD RATING. MOUNT INSIDE LIGHTING FIXTURE OR ABOVE ACCESSIBLE CEILING.
- CIRCUITING WITH DIMMING PAIR INDICATED BY SHORT TICKS. ALL CONDUCTORS SHALL HAVE 600V INSULATION.
- EMERGENCY LIGHTING CIRCUIT (SEPARATE CONDUIT PER NEC).

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ISSUES REVISIONS

100% ISSUE FOR BID
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SHEET TITLE

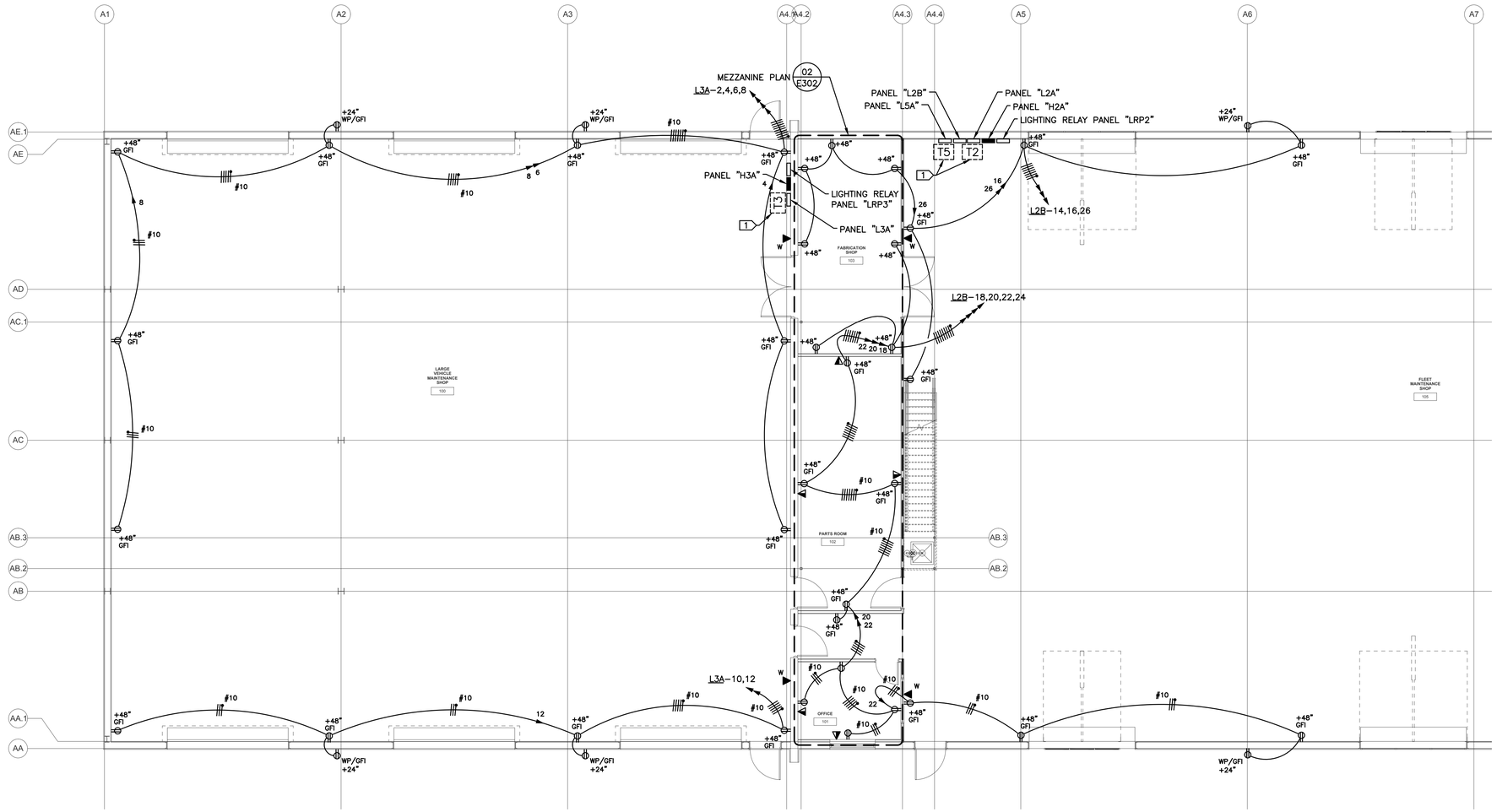
PHASE 2 BUILDING A LIGHTING PLAN

SHEET NUMBER

E203

PROJECT NUMBER

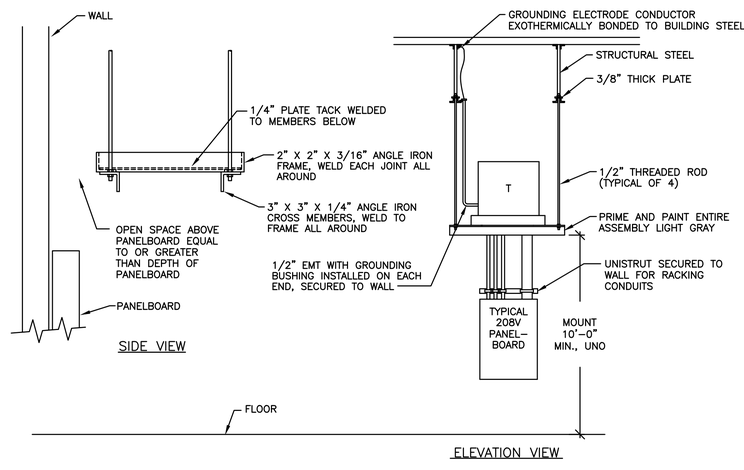
1707.3



NORTH

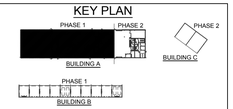
01 PHASE 1 BUILDING "A" POWER PLAN - NORTH

SCALE: 1/8"= 1'-0"



A TRANSFORMER MOUNTING DETAIL

SCALE: NONE



GENERAL NOTES:

A. ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVICING GASOLINE VEHICLES.

B. SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RGSC WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.

C. ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.

D. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.

E. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.

F. CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY–IN CEILINGS ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATION.

G. 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.

H. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.

KEYED NOTES:

1. TRANSFORMER SUSPENDED FROM STRUCTURE ABOVE. RE: DETAIL A, THIS SHEET.

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SHEET TITLE

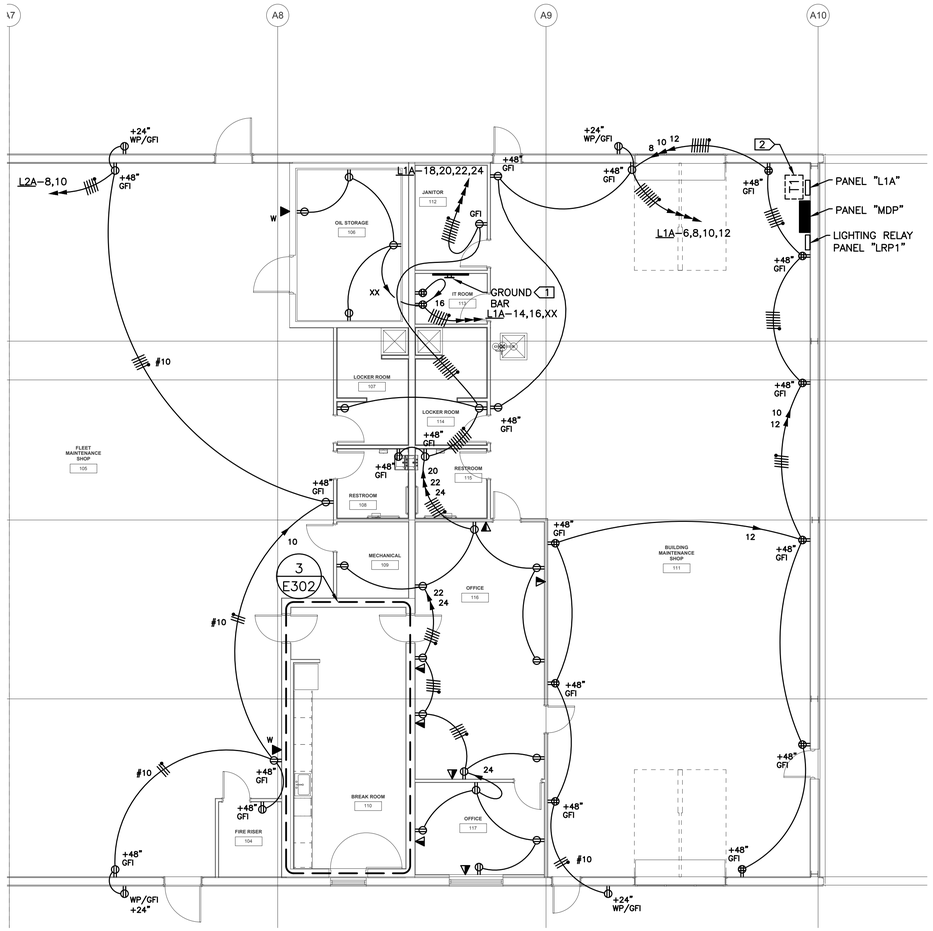
PHASE 1 BUILDING A
POWER PLAN
NORTH

SHEET NUMBER

E301

PROJECT NUMBER

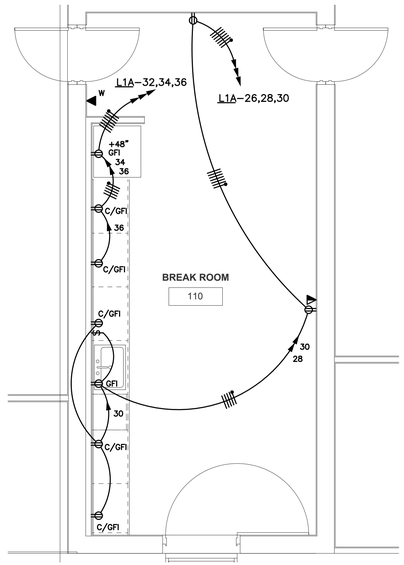
1707.3



NORTH

01 PHASE 1 BUILDING "A" POWER PLAN - SOUTH

SCALE: 1/8"= 1'-0"



NORTH

03 ENLARGED BREAKROOM POWER PLAN

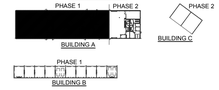
SCALE: 1/4"= 1'-0"

NORTH

02 MEZZ POWER PLAN

SCALE: 1/8"= 1'-0"

KEY PLAN



GENERAL NOTES:

A. ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVICING GASOLINE VEHICLES.

B. SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RGSC WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.

C. ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.

D. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.

E. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.

F. CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY–IN CEILINGS ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATION.

G. 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.

H. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.

KEYED NOTES:

1. MOUNT GROUND BAR 12" AFF. COORDINATE EXACT LOCATION WITH OWNER. RE: GROUND BAR DETAIL SHEET E501.
2. TRANSFORMER SUSPENDED FROM STRUCTURE ABOVE. RE: DETAIL A, SHEET E301.

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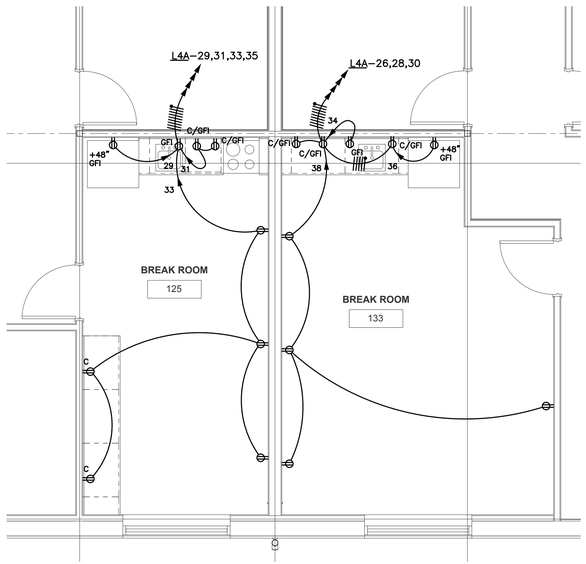
SHEET TITLE
PHASE 1 BUILDING A
POWER PLAN
SOUTH

SHEET NUMBER
E302

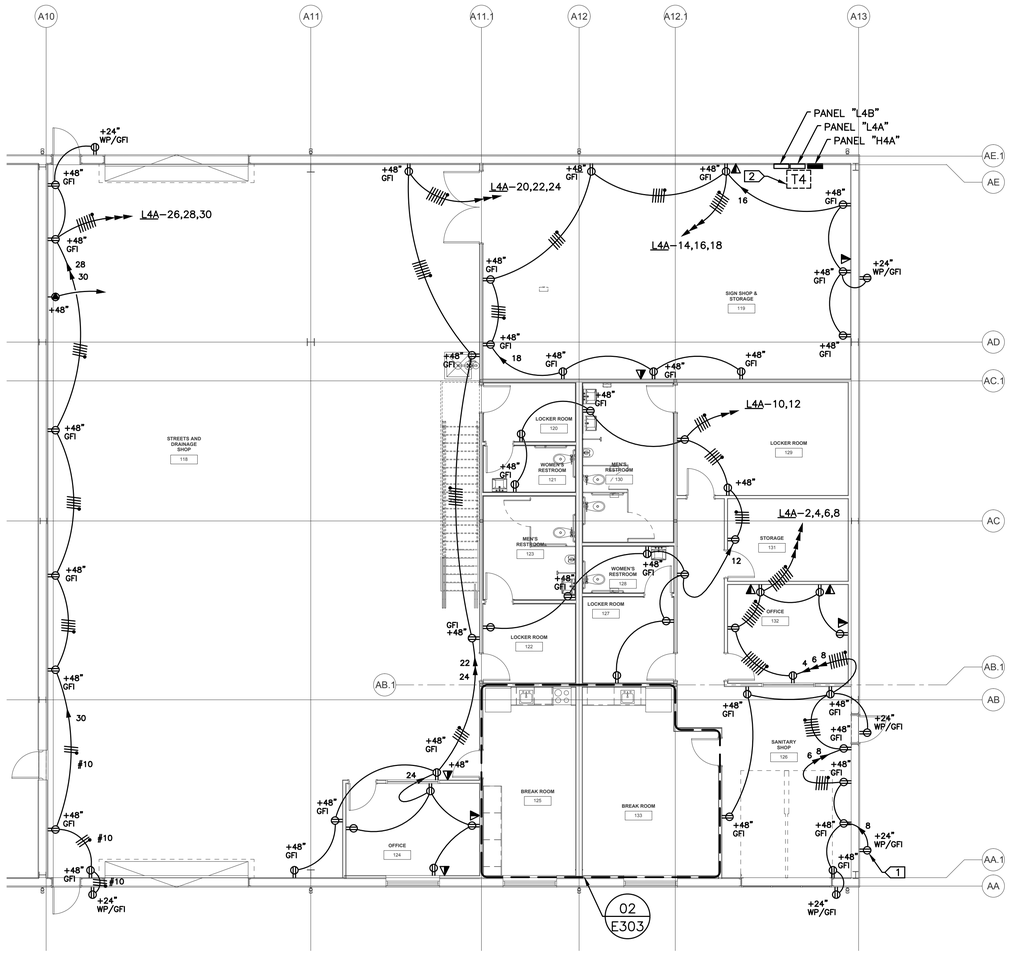
PROJECT NUMBER
1707.3



NORTH

02 PH. 2 ENLARGED BREAKROOMS POWER PLAN

SCALE: 1/4"= 1'-0"

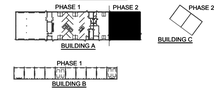


NORTH

01 PHASE 2 BUILDING "A" POWER PLAN

SCALE: 1/8"= 1'-0"

KEY PLAN



GENERAL NOTES:

A. ENTIRE INSTALLATION SHALL COMPLY WITH NEC ARTICLE 511 FOR MAJOR REPAIR GARAGE SERVICING GASOLINE VEHICLES.

B. SERVICE BAYS AND AREAS DIRECTLY COMMUNICATING SHALL BE CLASSIFIED CLASS 1, DIV. 2 FROM FINISHED FLOOR TO 18" AFF. ALL CIRCUITING PASSING THROUGH THE HAZARDOUS AREA SHALL BE UNBROKEN RGSC WITH NO FITTINGS. ALL PANELBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL ENCLOSURES INCLUDING WALL OUTLETS IN THIS AREA SHALL BE MOUNTED NOT LOWER THAN 20" AFF TO BOTTOM OF BOX, OR AS NOTED.

C. ANY CONDUIT PASSING THROUGH THE HAZARDOUS AREA MUST MEET THE REQUIREMENTS OF NEC ARTICLE 502.

D. PROVIDE DEDICATED NEUTRALS FOR EACH CIRCUIT, UNO.

E. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.

F. CONTRACTOR MAY USE "MC" CABLE WITHIN MILLWORK AND AS FIXTURE WHIPS ABOVE LAY–IN CEILINGS ONLY. "MC" IS NOT ALLOWED FOR ANY OTHER APPLICATION.

G. 20A, 120V CIRCUITS LONGER THAN 100' SHALL BE #10 AWG.

H. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT AS REQUIRED BY ARCHITECT.

KEYED NOTES:

1. RECEPTACLE FOR ICE MACHINE.
2. TRANSFORMER SUSPENDED FROM STRUCTURE ABOVE. RE: DETAIL A, SHEET E301.

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SHEET
TITLE

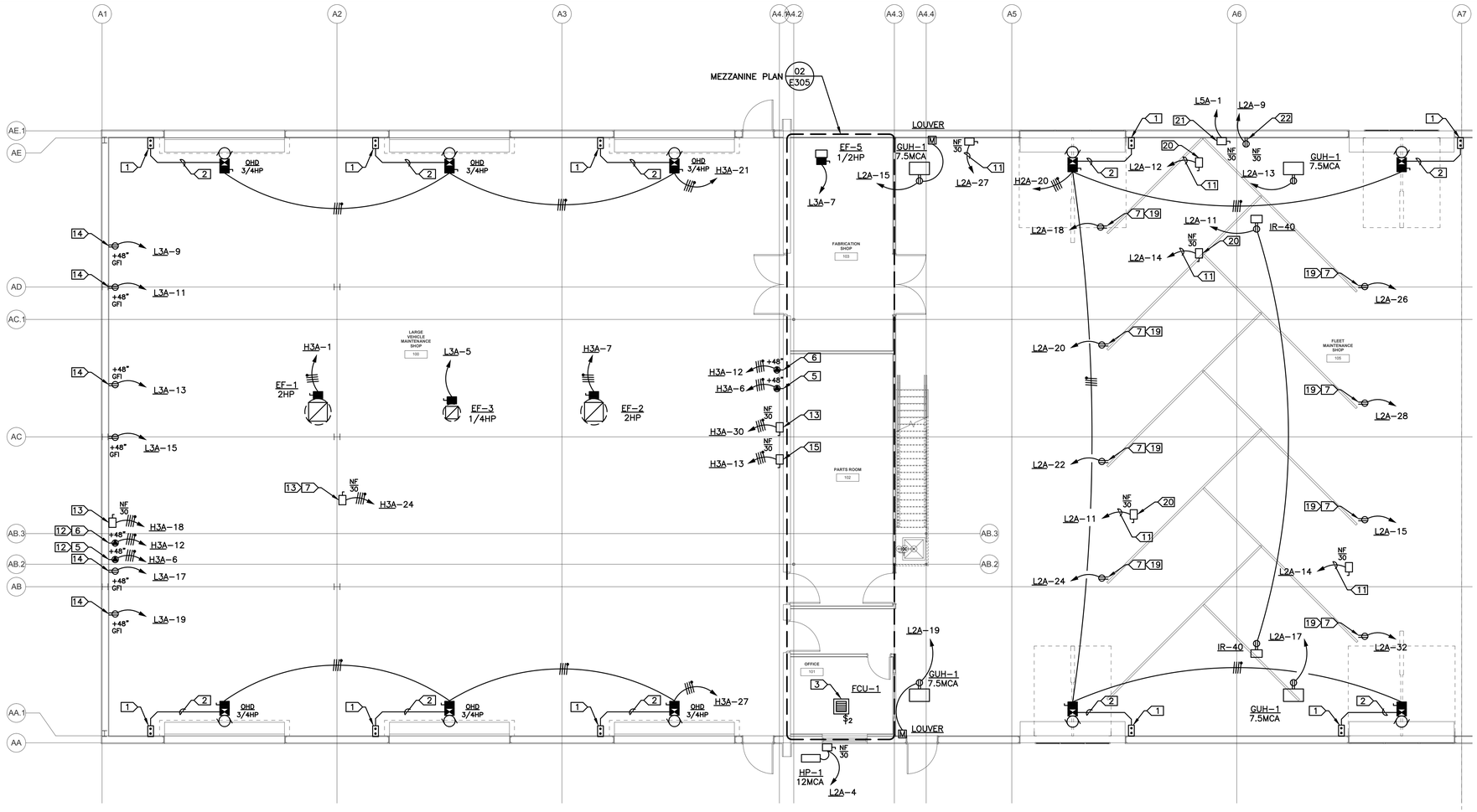
PHASE 2 BUILDING A
POWER PLAN

SHEET
NUMBER

E303

PROJECT
NUMBER

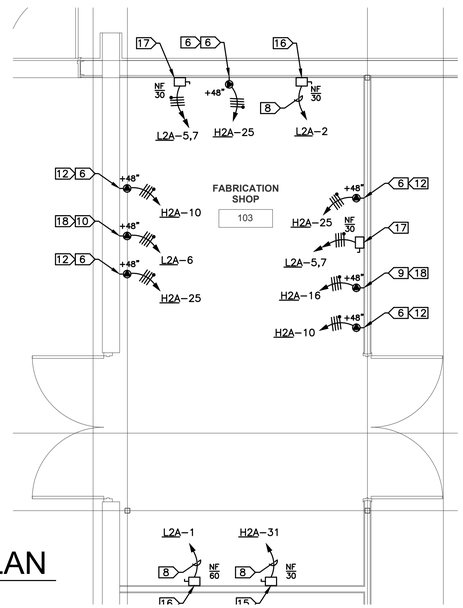
1707.3



NORTH

01 PHASE 1 BUILDING "A" MECHANICAL POWER PLAN - NORTH

SCALE: 1/8"= 1'-0"

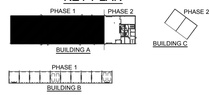


NORTH

01 ENLARGED SPECIALTY EQUIPMENT PLAN

SCALE: 1/4"= 1'-0"

KEY PLAN



GENERAL NOTES:

A. ALL EXHAUST FANS ARE MOUNTED ON ROOF, UNO.

B. ROUTE ALL CIRCUITING FOR ROOFTOP MECHANICAL EQUIPMENT AND RECEPTACLES UP THROUGH ROOF CURB. DO NOT PENETRATE ROOF.

C. PROVIDE FLUSH MOUNTED BOXES AND 1/2" CONDUIT STUBBED OUT ABOVE AN ACCESSIBLE CEILING FOR HVAC THERMOSTATS. RE: MECHANICAL DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS. COORDINATE ROUGH-IN HEIGHT AND BOX TYPE AND ORIENTATION WITH TEMPERATURE CONTROLS CONTRACTOR. IN AREAS WITHOUT ACCESSIBLE CEILINGS, RUN A CONTINUOUS CONDUIT TO THE UNIT SERVED BY THERMOSTAT.

D. COORDINATE TEMPERATURE CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR.

E. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.

F. CONTRACTOR SHALL VERIFY POWER REQUIREMENTS FOR ALL HVAC WITH NAMEPLATE RATING OF EQUIPMENT PROVIDED. MODIFY CIRCUIT BREAKER AND WIRE AS REQUIRED.

E. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT CONDUITS AS REQUIRED BY ARCHITECT.

F. CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.

G. SPECIALITY NEMA CONFIGURATIONS SHOWN SHALL BE COORDINATED WITH OWNERS ACTUAL EQUIPMENT IN THE FIELD. CONTRACTOR SHALL PROVIDE PIG TAILS FOR EACH PIECE OF EQUIPMENT AS NEEDED.

H. LOCATE FEED POINT WITH EQUIPMENT. ROUTE UP AND OVERHEAD.

KEYED NOTES:

1. PUSH BUTTON FOR OH DOOR OPERATOR MOUNTED 48" AFF TO CENTER.
2. PROVIDE CIRCUITING FOR OH DOOR CONTROL AS REQUIRED.
3. MINI SPLIT SYSTEM TO BE FED FROM OUTDOOR UNIT WITH FACTORY SUPPLIED CABLE IN 3/4" C.
4. NEMA 5-15R RECEPTACLE MOUNTED ADJACENT TO TUBE HEATER.
5. NEMA L16-30R RECEPTACLE.
6. NEMA L16-20R RECEPTACLE.
7. MOUNT TO STRUCTURE. COORDINATE WITH OWNER.
8. 3 #6, 1 #10GND., 1"C.
9. NEMA L8-20R RECEPTACLE.
10. NEMA 10-50R RECEPTACLE.
11. 3 #10, 1 #10GND., 3/4"C.
12. RECEPTACLE FOR PLASMA CUTTER.
13. DISCONNECT FOR CAR LIFT.
14. RECEPTACLE FOR MOBILE LIFT CHARGER.
15. DISCONNECT FOR STICK WELDER.
16. DISCONNECT FOR PARTS WASHER.
17. DISCONNECT FOR ABRASIVE CABINET.
18. RECEPTACLE FOR WELDER.
19. RECEPTACLE FOR BREAK CUTTER.
20. DISCONNECT FOR LIFT.
21. DISCONNECT FOR TIRE BALANCER.
22. RECEPTACLE FOR TIRE BALANCER.

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SEAL

REGISTERED PROFESSIONAL ENGINEER
JULIAN DUANE HORNER
17193
04-30-21
OKLAHOMA

PROJECT

CITY OF MOORE
PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1898

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

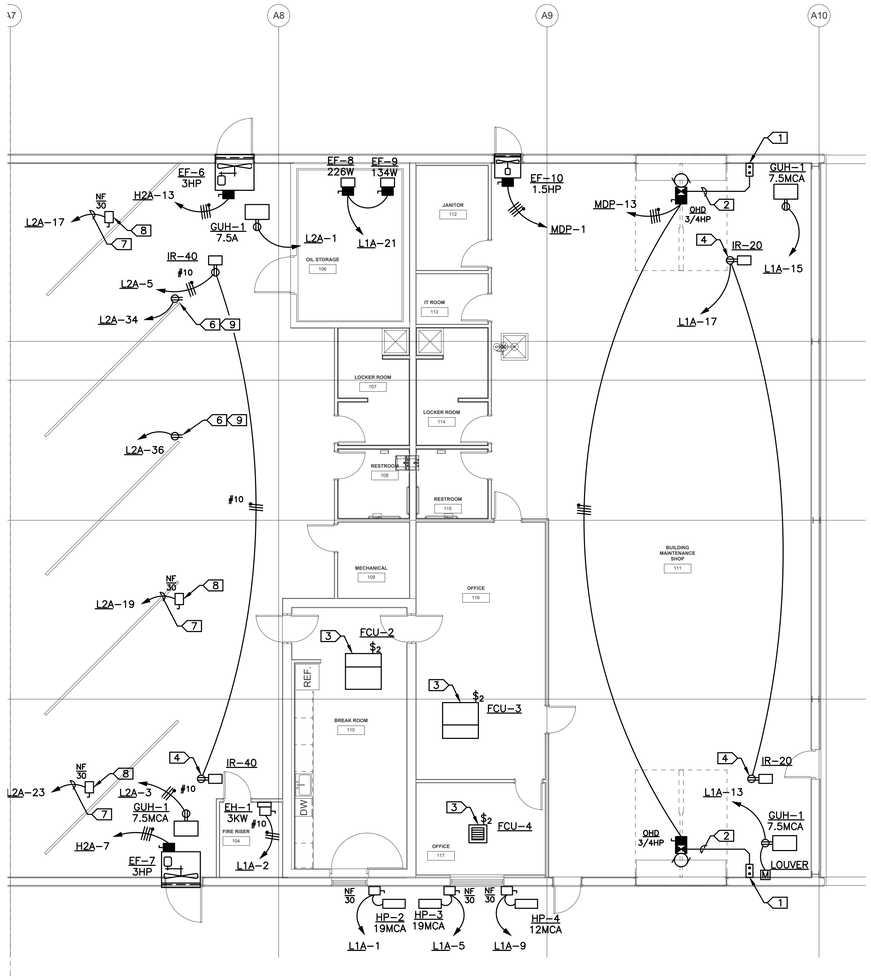
PHASE 1 BUILDING A
MECHANICAL POWER
PLAN- NORTH

SHEET
NUMBER

E304

PROJECT
NUMBER

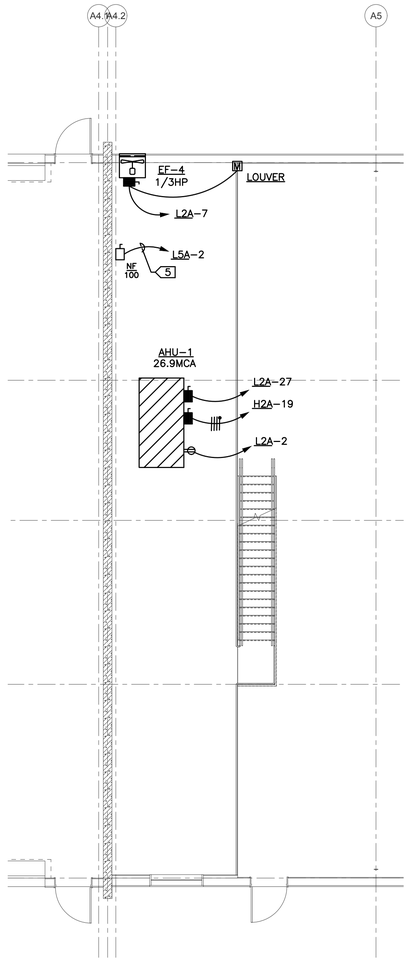
1707.3



NORTH

01 PHASE 1 BUILDING "A" MECHANICAL POWER PLAN - SOUTH

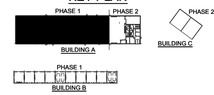
SCALE: 1/8"= 1'-0"



NORTH

02 MEZZ MECHANICAL POWER PLAN

SCALE: 1/8"= 1'-0"



GENERAL NOTES:

A. ALL EXHAUST FANS ARE MOUNTED ON ROOF, UNO.

B. ROUTE ALL CIRCUITING FOR ROOFTOP MECHANICAL EQUIPMENT AND RECEPTACLES UP THROUGH ROOF CURB. DO NOT PENETRATE ROOF.

C. PROVIDE FLUSH MOUNTED BOXES AND 1/2" CONDUIT STUBBED OUT ABOVE AN ACCESSIBLE CEILING FOR HVAC THERMOSTATS. RE: MECHANICAL DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS. COORDINATE ROUGH-IN HEIGHT AND BOX TYPE AND ORIENTATION WITH TEMPERATURE CONTROLS CONTRACTOR. IN AREAS WITHOUT ACCESSIBLE CEILINGS, RUN A CONTINUOUS CONDUIT TO THE UNIT SERVED BY THERMOSTAT.

D. COORDINATE TEMPERATURE CONTROL WIRING REQUIREMENTS WITH MECHANICAL CONTRACTOR.

E. HOMERUN CIRCUITS AS SHOWN. DO NOT COMBINE HOMERUNS.

F. CONTRACTOR SHALL VERIFY POWER REQUIREMENTS FOR ALL HVAC WITH NAMEPLATE RATING OF EQUIPMENT PROVIDED. MODIFY CIRCUIT BREAKER AND WIRE AS REQUIRED.

E. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT CONDUITS AS REQUIRED BY ARCHITECT.

F. CONTRACTOR SHALL ENSURE THAT ALL CODE REQUIRED WORKING SPACE CLEARANCES ARE MAINTAINED.

KEYED NOTES:

1. PUSH BUTTON FOR OH DOOR OPERATOR MOUNTED 48" AFF TO CENTER.
2. PROVIDE CIRCUITING FOR OH DOOR CONTROL AS REQUIRED.
3. MINI SPLIT SYSTEM TO BE FED FROM OUTDOOR UNIT WITH FACTORY SUPPLIED CABLE IN 3/4" C.
4. NEMA 5-15R RECEPTACLE MOUNTED ADJACENT TO TUBE HEATER.
5. 4 #1, 1 #6GND., 1.5"C.
6. MOUNT TO STRUCTURE. COORDINATE WITH OWNER.
7. 3 #10, 1 #10GND., 3/4"C.
8. DISCONNECT FOR CAR LIFT.
9. RECEPTACLE FOR BREAK CUTTER.

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA 1988

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

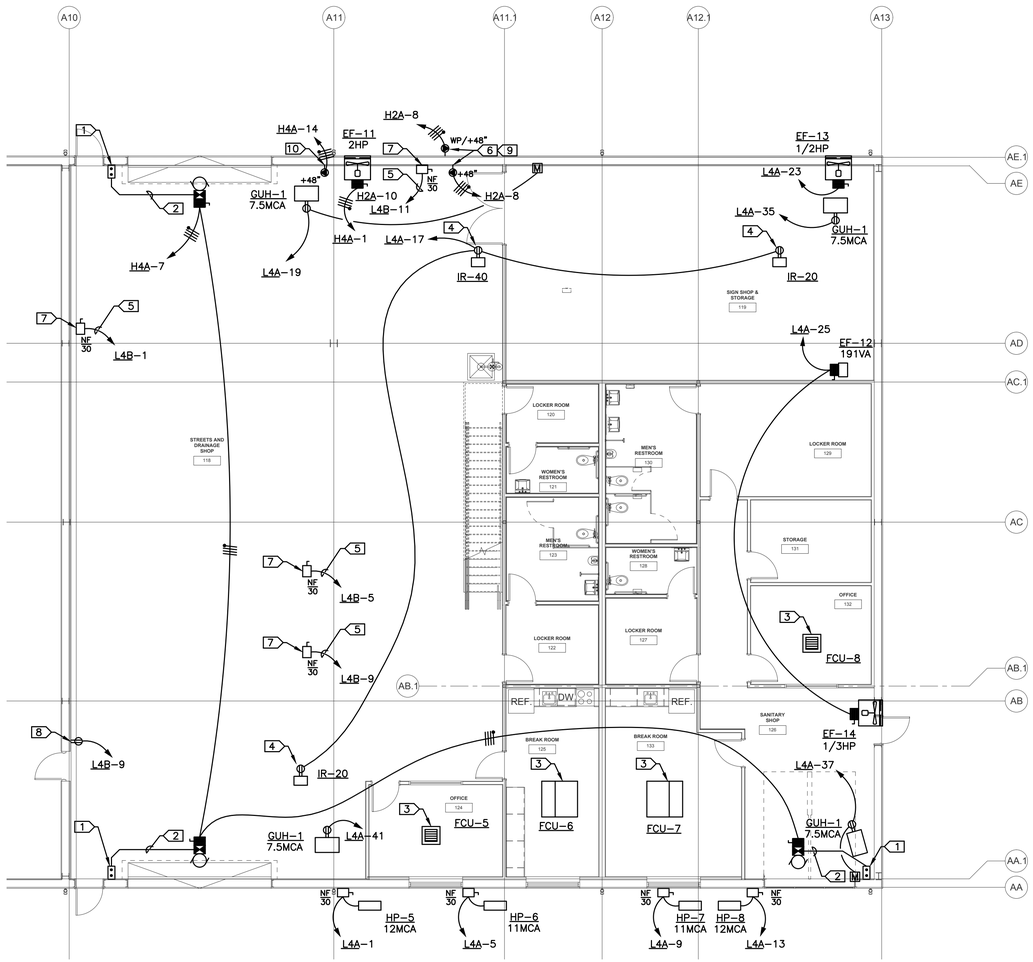
PHASE 1 BUILDING A
MECHANICAL POWER
PLAN - SOUTH

SHEET
NUMBER

E305

PROJECT
NUMBER

1707.3

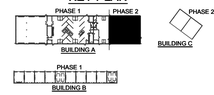


NORTH

01 PHASE 2 BUILDING "A" MECHANICAL POWER PLAN

SCALE: 1/8"= 1'-0"

KEY PLAN



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B. ROUTE ALL CIRCUITING FOR ROOFTOP MECHANICAL EQUIPMENT AND RECEPTACLES UP THROUGH ROOF CURB. DO NOT PENETRATE ROOF.

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KEYED NOTES:

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2. PROVIDE CIRCUITING FOR OH DOOR CONTROL AS REQUIRED.
3. MINI SPLIT SYSTEM TO BE FED FROM OUTDOOR UNIT WITH FACTORY SUPPLIED CABLE IN 3/4" C.
4. NEMA 5–15R RECEPTACLE MOUNTED ADJACENT TO TUBE HEATER.
5. 3 #10, 1 #10GND., 3/4"C.
6. NEMA L8–20R RECEPTACLE.
7. DISCONNECT FOR CAR LIFT.
8. RECEPTACLE FOR MOBILE CAR LIFT CHARGER.
9. RECEPTACLE FOR PLASMA CUTTER.
10. RECEPTACLE FOR WELDER.

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

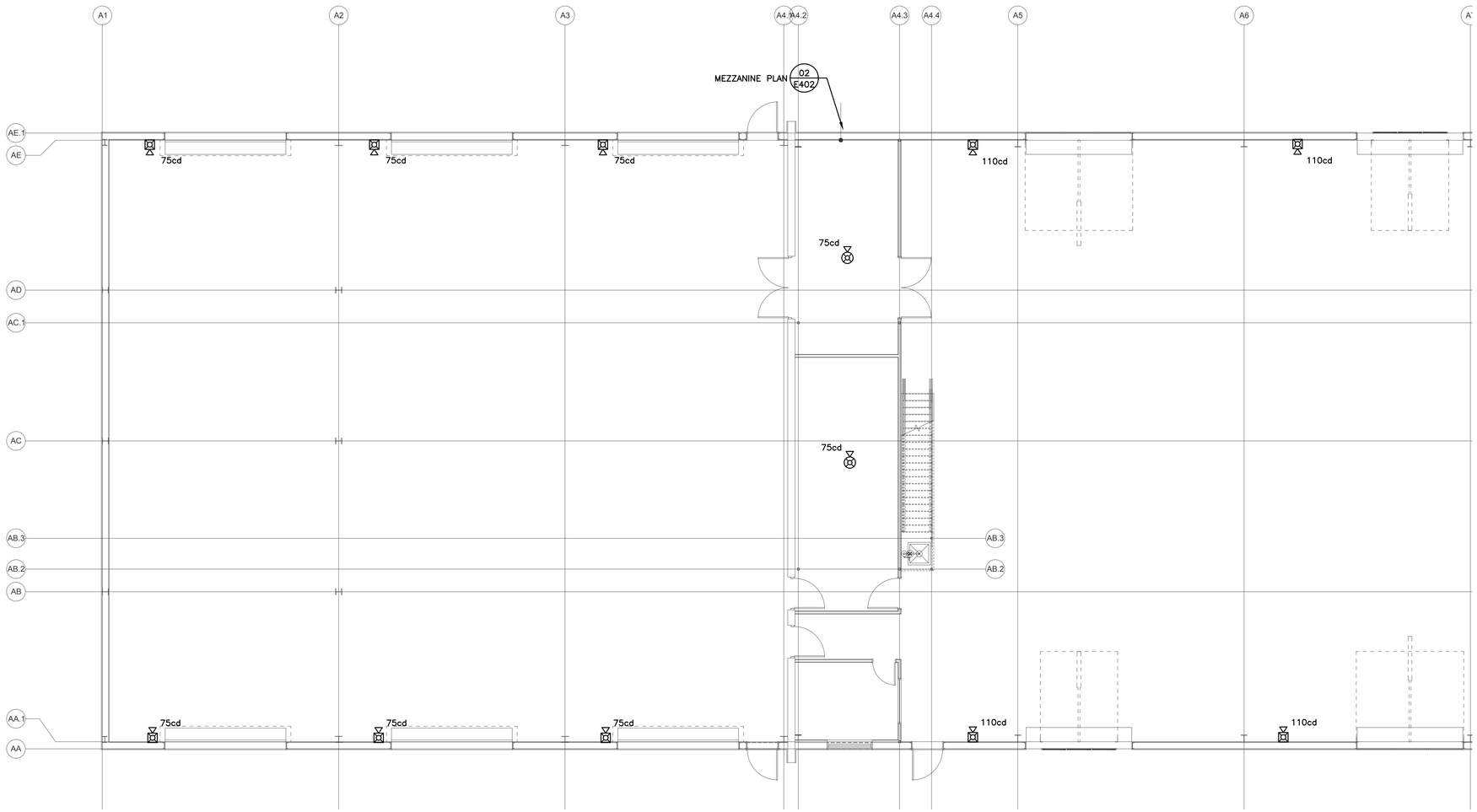
PHASE 2 BUILDING A MECHANICAL POWER PLAN

SHEET NUMBER

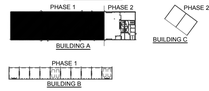
E306

PROJECT NUMBER

1707.3



KEY PLAN



GENERAL NOTES:

A. FIRE ALARM DEVICES SHOWN WITH AN "S" SUBSCRIPT SHALL BE MOUNTED TO STRUCTURE. PROVIDE BACK BOXES AS REQUIRED.

B. ROUTE CABLING CONCEALED WITHIN WALLS, ABOVE HARD CEILINGS OR IN AREAS WITH EXPOSED STRUCTURE IN CONDUIT.

C. CONDUITS ROUTED EXPOSED SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A NEAT AND WORKMANLIKE MANNER. PAINT CONDUITS AS REQUIRED BY ARCHITECT.

D. DO NOT MOUNT FIRE ALARM INITIATION DEVICES CLOSER THAN 36" FROM HVAC REGISTERS.

E. PROVIDE NAC'S AND 120V POWER AS REQUIRED.

F. CONTRACTOR SHALL PROVIDE FIRE ALARM STROBES AND HORNS AS REQUIRED TO PROVIDE COMPLETE AND ADEQUATE COVERAGE OF BUILDING AND PROPER VOLUME LEVELS.

G. FIRE ALARM SYSTEMS SHALL COMPLETELY COMPLY WITH NFPA 72 AND OTHER APPLICABLE BUILDING CODES. PROVIDE ALL REQUIRED DEVICES AND EQUIPMENT WHETHER SHOWN OR NOT AS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM THAT COMPLIES WITH CODE.

H. FIRE ALARM DEVICE SHOWN WITH A SUBSCRIPT "WP" SHALL BE WEATHERPROOF

NORTH

01 PHASE 1 BULDING "A" SYSTEMS PLAN

SCALE: 1/8"= 1'-0"

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA 1893

ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

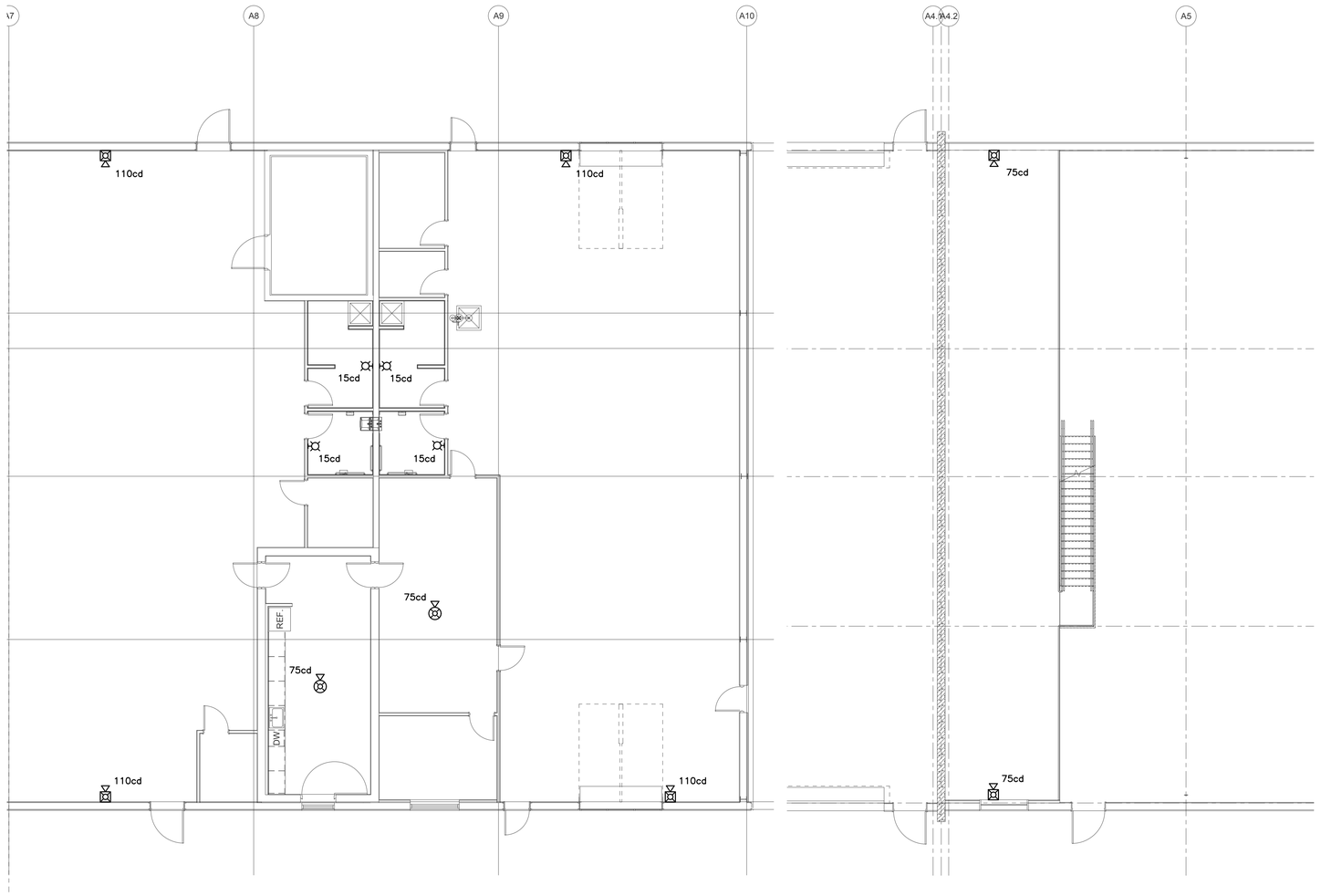
PHASE 1 BUILIDING A
SYSTEMS PLAN

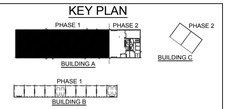
SHEET
NUMBER

E401

PROJECT
NUMBER

1707.3





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NORTH

01 PHASE 1 BULDING "A" SYSTEMS PLAN

SCALE: 1/8"= 1'-0"

NORTH

02 MEZZ SYSTEMS PLAN

SCALE: 1/8"= 1'-0"

TAP ARCHITECTURE

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ISSUES
REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET
TITLE

PHASE 1 BUILIDING A
SYSTEMS PLAN

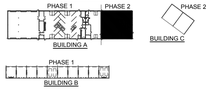
SHEET
NUMBER

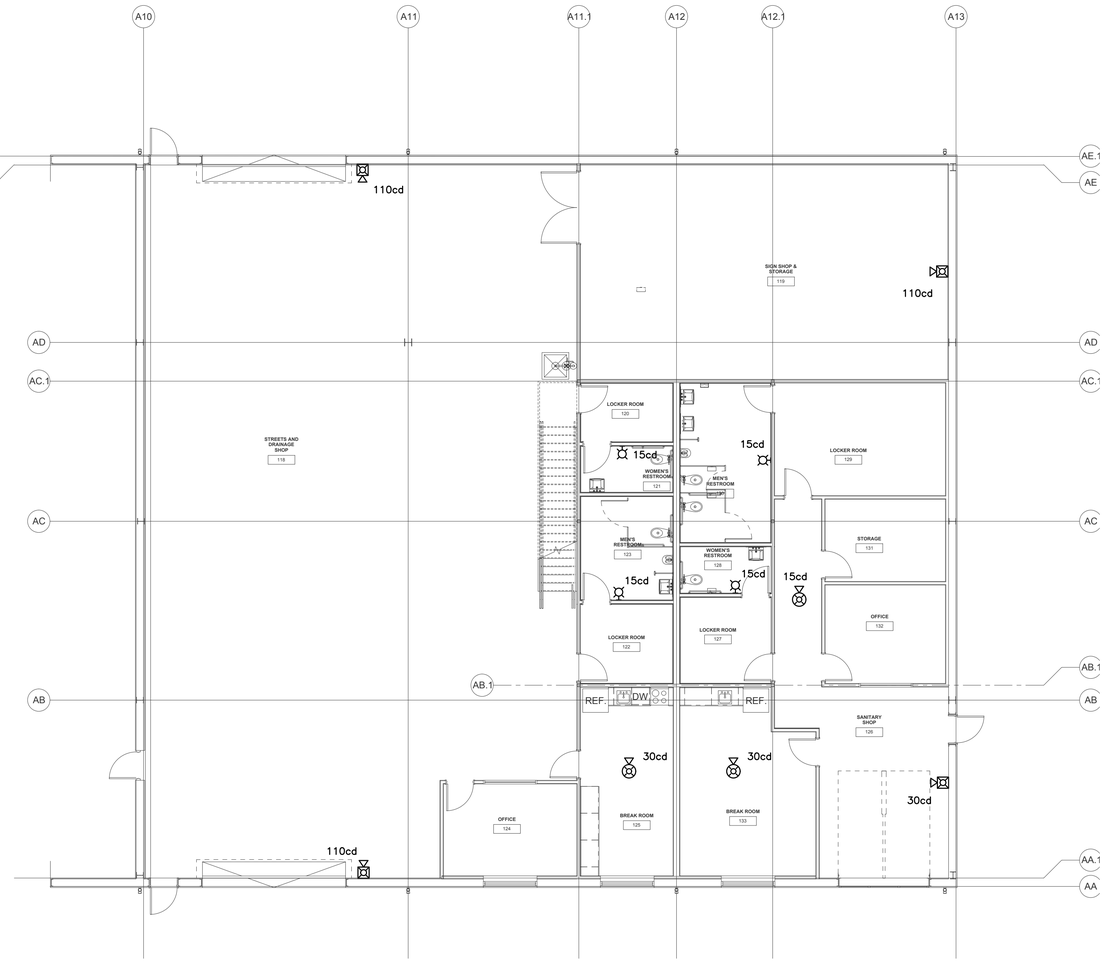
E402

PROJECT
NUMBER

1707.3

KEY PLAN





NORTH

01 PHASE 2 BULDING "A" SYSTEMS PLAN

SCALE: 1/8"= 1'-0"

GENERAL NOTES:

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REVISIONS

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SHEET TITLE

PHASE 2 BUILIDING A SYSTEMS PLAN

SHEET NUMBER

E403

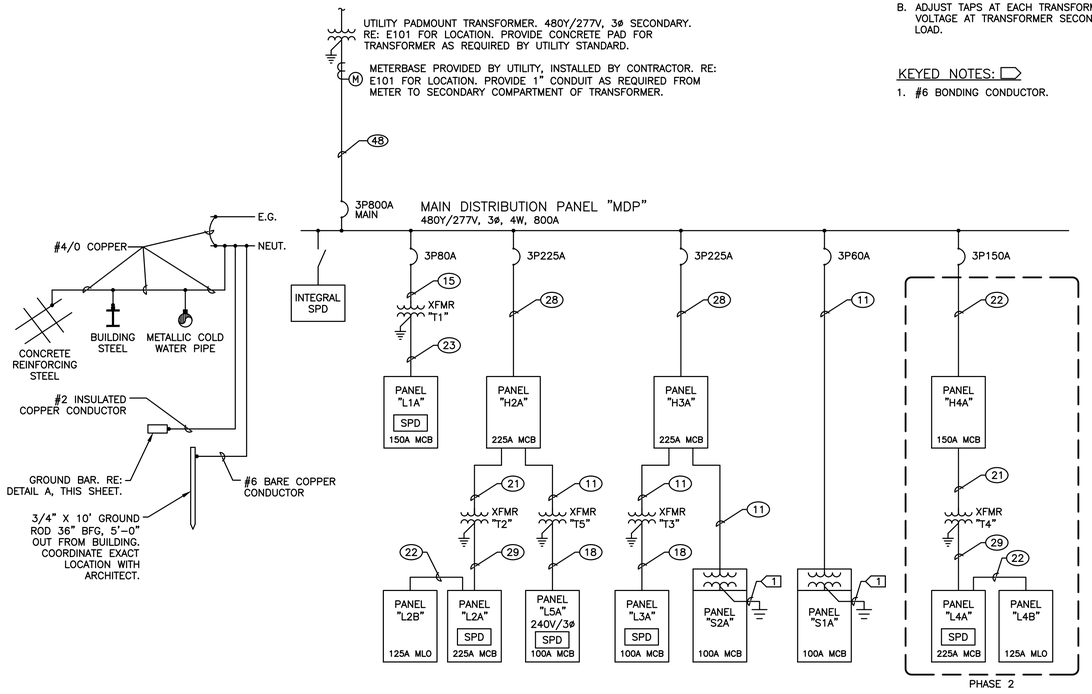
PROJECT NUMBER

1707.3

CIRCUITING SCHEDULE

TAG	AMPACITY	WIRE AND CONDUIT SIZE
1	20	2 #12, 1 #12 GND., 3/4" C.
2	20	3 #12, 1 #12 GND., 3/4" C.
3	20	4 #12, 1 #12 GND., 3/4" C.
4	30	2 #10, 1 #10 GND., 3/4" C.
5	30	3 #10, 1 #10 GND., 3/4" C.
6	30	4 #10, 1 #10 GND., 3/4" C.
7	40	2 #8, 1 #10 GND., 3/4" C.
8	40	3 #8, 1 #10 GND., 3/4" C.
9	40	4 #8, 1 #10 GND., 1" C.
10	60	2 #6, 1 #10 GND., 3/4" C.
11	60	3 #6, 1 #10 GND., 1" C.
12	60	4 #6, 1 #10 GND., 1" C.
13	70	3 #4, 1 #8 GND., 1" C.
14	70	4 #4, 1 #8 GND., 1-1/4" C.
15	85	3 #3, 1 #8 GND., 1-1/4" C.
16	100	3 #2, 1 #8 GND., 1-1/4" C.
17	100	4 #2, 1 #8 GND., 1-1/4" C.
18	100	4 #2, 1 #6 GND., 1-1/4" C.
19	110	3 #1, 1 #6 GND., 1-1/2" C.
20	110	4 #1, 1 #6 GND., 1-1/2" C.
21	150	3 #1/0, 1 #6 GND., 1-1/2" C.
22	150	4 #1/0, 1 #6 GND., 2" C.
23	150	4 #1/0, 1 #4 GND., 2" C.
24	175	3 #2/0, 1 #6 GND., 2" C.
25	200	3 #3/0, 1 #6 GND., 2" C.
26	200	4 #3/0, 1 #6 GND., 2" C.
27	230	3 #4/0, 1 #4 GND., 2" C.
28	230	4 #4/0, 1 #4 GND., 2-1/2" C.
29	230	4 #4/0, 1 #2 GND., 2-1/2" C.
30	255	3 #250 KCMIL, 1 #4 GND., 2-1/2" C.
31	255	4 #250 KCMIL, 1 #4 GND., 3" C.
32	255	3 #250 KCMIL(PHASE), 2 #250 KCMIL(NEUT.), 1 #4 GND., 3" C.
33	285	3 #300 KCMIL, 1 #4 GND., 2-1/2" C.
34	300	3 #350 KCMIL, 1 #4 GND., 3" C.
35	400	3 #600 KCMIL, 1 #3 GND., 3-1/2" C.
36	400	4 #600 KCMIL, 1 #3 GND., 3-1/2" C.
37	400	3 #600 KCMIL(PHASE), 2 #600 KCMIL(NEUT.), 1 #3 GND., 4" C.
38	460	2 - 2" C. EACH WITH 3 #4/0, 1 #2 GND.
39	500	2 - 2-1/2" C. EACH WITH 3 #250 KCMIL, 1 #2 GND.
40	500	2 - 3" C. EACH WITH 4 #250 KCMIL, 1 #2 GND.
41	500	2 - 3" C. EACH WITH 3 #250 KCMIL(PHASE), 2 #250 KCMIL(NEUT.), 1 #2 GND.
42	600	2 - 3" C. EACH WITH 3 #350 KCMIL, 1 #1 GND.
43	600	2 - 3" C. EACH WITH 4 #350 KCMIL, 1 #1 GND.
44	600	2 - 3-1/2" C. EACH WITH 3 #350 KCMIL(PHASE), 2 #350 KCMIL(NEUT.), 1 #1 GND.
45	800	3 - 2-1/2" C. EACH WITH 3 #300 KCMIL, 1 #1/0 GND.
46	800	3 - 2-1/2" C. EACH WITH 4 #300 KCMIL, 1 #1/0 GND.
47	800	3 - 3" C. EACH WITH 3 #300 KCMIL(PHASE), 2 #300 KCMIL(NEUT.), 1 #1/0 GND.
48	800	3 - 3-1/2" C. EACH WITH 4 #300 KCMIL
49	1000	4 - 4" C. EACH WITH 3 #250 KCMIL, 1 #2/0 GND.
50	1000	4 - 4" C. EACH WITH 4 #250 KCMIL, 1 #2/0 GND.
51	1000	4 - 4" C. EACH WITH 4 #250 KCMIL
52	1200	4 - 4" C. EACH WITH 3 #350 KCMIL, 1 #3/0 GND.
53	1200	4 - 4" C. EACH WITH 4 #350 KCMIL, 1 #3/0 GND.
54	1200	4 - 4" C. EACH WITH 4 #350 KCMIL
55	1600	5 - 4" C. EACH WITH 3 #400 KCMIL, 1 #4/0 GND.
56	1600	5 - 4" C. EACH WITH 4 #400 KCMIL, 1 #4/0 GND.
57	1600	5 - 4" C. EACH WITH 4 #400 KCMIL
58	2000	6 - 4" C. EACH WITH 3 #400 KCMIL, 1 #250 KCMIL GND.
59	2000	6 - 4" C. EACH WITH 4 #400 KCMIL, 1 #250 KCMIL GND.
60	2000	6 - 4" C. EACH WITH 4 #400 KCMIL
61	2500	8 - 4" C. EACH WITH 3 #400 KCMIL, 1 #350 KCMIL GND.
62	2500	8 - 4" C. EACH WITH 4 #400 KCMIL, 1 #350 KCMIL GND.
63	2500	8 - 4" C. EACH WITH 4 #400 KCMIL
64	3000	8 - 4" C. EACH WITH 3 #500 KCMIL, 1 #400 KCMIL GND.
65	3000	8 - 4" C. EACH WITH 4 #500 KCMIL, 1 #400 KCMIL GND.
66	3000	8 - 4" C. EACH WITH 4 #500 KCMIL
67	4000	11 - 4" C. EACH WITH 3 #500 KCMIL, 1 #500 KCMIL GND.
68	4000	11 - 4" C. EACH WITH 4 #500 KCMIL, 1 #500 KCMIL GND.
69	4000	11 - 4" C. EACH WITH 4 #500 KCMIL
70	1520	6-4"C.; 4-4"C. EACH WITH 4# 500 KCMIL AND 2-4" C. EMPTY W/ PULL ROPE

NOTE: ALL SCHEDULE ITEMS ARE NOT NECESSARILY USED ON THIS PROJECT.



GENERAL NOTES:

A. BALANCE LOADS ON EACH PANELBOARD AT THE COMPLETION OF CONSTRUCTION.

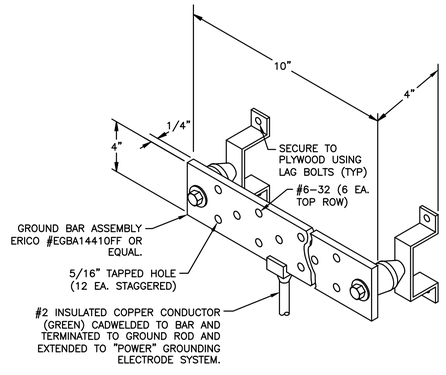
B. ADJUST TAPS AT EACH TRANSFORMER TO OBTAIN RATED VOLTAGE AT TRANSFORMER SECONDARY UNDER NORMAL LOAD.

KEYED NOTES:

1. #6 BONDING CONDUCTOR.

TRANSFORMER SCHEDULE

XFMR TAG	SIZE (KVA)	VOLTAGE	GROUNDING ELECTRODE COND.	K FACTOR RATING	REMARKS
T1	45	480Δ-208Y/120V, 3ø	#4	K-1	
T2	75	480Δ-208Y/120V, 3ø	#2	K-1	
T3	30	480Δ-208Y/120V, 3ø	#6	K-1	
T4	75	480Δ-208Y/120V, 3ø	#2	K-1	
T5	30	480Δ-240Δ/120V, 3ø	#6	K-1	CENTER TAP NEUT.



A GROUND BAR DETAIL
SCALE: NONE

TAP ARCHITECTURE

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Fax (405) 801-2529

SEAL

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17193
04-30-21
OKLAHOMA

PROJECT

CITY OF MOORE
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MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1998

ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE
ONE-LINE DIAGRAM

SHEET NUMBER
E501

PROJECT NUMBER
1707.3

PANEL MDP SCHEDULE

VOLTS (L-L) 480 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 800 PANEL AMPS 800 PANEL AIC 42,000 MINIMUM
COMMENTS PROVIDE INTEGRAL SPD RATED 50KA PER MODE.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	3	M	EF-10	831							
					2,160			BUILDING MAINTENANCE MAIN FLOOR	L	1	20	2
3						831						
						1,412		LIGHTING - BUILDING AND FLEET	L	1	20	4
5							831	MAINTENANCE AND EXTERIOR BULDING				
							408	PARKING LOT	L	1	20	6
7	15	3		SPARE								
					1,064			BUILDING "B" LIGHTS	L	1	20	8
9												
						608		BUILDING "C" LIGHTS	L	1	20	10
11												
								SPARE		1	20	12
13	15	3	O	OHD'S	1,330							
								SPARE		1	20	14
15						1,330						
								SPARE		1	20	16
17							1,330					
								SPARE		1	20	18
19	20	1		SPARE								
								SPARE		1	20	20
21	20	1		SPARE								
								SPARE		1	20	22
23	20	1		SPARE								
								SPARE		1	20	24
25		3		SPARE								
								SPARE		1	20	26
27												
								SPARE		1	20	28
29												
								SPARE		1	20	30
31	60	3	P	SITE MINI POWER STATION "S1A"	6,050							
								SPACE		3		32
33						6,050						
												34
35							6,050					
												36
37	80	3	P	PANEL "L1A" VIA TRANSFORMER "T1"	8,670							
					29,296			PANEL "H3A"	P	3	225	38
39						8,670						
						29,296						40
41							8,670					
							29,296					42
43	225	3	P	PANEL "H2A"	42,295							
					22,166			PANEL "H4A"	P	3	150	44
45						42,295						
						22,166						46
47							42,295					
							22,166					48
				TOTAL	113,862	112,658	111,046					

TOTAL CONNECTED LOAD 337.6 KVA
ESTIMATED DEMAND LOAD 336.8 KVA
DEMAND LINE AMPS 405

PANEL H2A SCHEDULE

VOLTS (L-L) 480 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS PANEL AMPS 225 PANEL AIC 25,000 MINIMUM
COMMENTS

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	3	M	EH-1	942							
					1,562			FLEET MAINTENANCE - SOUTH	L	1	20	2
3						942						
						1,704		FLEET MAINTENANCE - CENTER	L	1	20	4
5							942					
							1,753	FLEET MAINTENANCE - NORTH	L	1	20	6
7	15	3	M	EH-7	1,330							
					1,256			LIGHTING - FLEET MAINTENANCE	L	1	20	8
9						1,330						
						3,603		PLASMA CUTTER	T	3	20	10
11							1,330					
							3,603					12
13	15	3	M	EH-6	1,330							
					3,603							14
15						1,330						
						4,800		WELDER	T	2	20	16
17							1,330					
							4,800					18
19	45	3	M	AHU-1	6,000							
					2,217			OHD'S	O	3	15	20
21						6,000						
						2,217						22
23							6,000					
							2,217					24
25	20	3	T	PLASMA CUTTER	3,603							
								SPACE		3		26
27						3,603						
												28
29							3,603					
												30
31	60	2	T	STICK WELDER	4,150							
								SPACE		3		32
33						4,150						
												34
35		2		SPACE								
												36
37												
					2,605			PANEL "L5A"	P	3	60	38
39		2		SPACE				VIA XFMR "T5"				
						2,605						40
41												
							2,605					42
43		3		SPACE								
					15,684			PANEL "L2A" VIA XFMR "T2"	P	3	80	44
45												
						15,684						46
47												
							15,684					48
				TOTAL	44,282	47,968	43,867					

TOTAL CONNECTED LOAD 136.1 KVA
ESTIMATED DEMAND LOAD 126.9 KVA
DEMAND LINE AMPS 153

PANEL H3A SCHEDULE

VOLTS (L-L) 480 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 225 PANEL AMPS 225 PANEL AIC 25,000 MINIMUM
COMMENTS

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	3	M	EF-1	942							
					3,240			MAINTENANCE SHOP - SOUTH	L	1	20	2
3						942						
						2,160		MAINTENANCE SHOP - NORTH	L	1	20	4
5							942					
							3,603	PLASMA CUTTER	O	3	20	6
7	15	3	M	EF-2	942							
					3,603							8
9						942						
						3,603						10
11							942					
							3,326	PLASMA CUTTER	O	3	20	12
13	60	2	T	STICK WELDER	10,320							
					3,326							14
15						10,320						
						3,326						16
17	60	2	T	SPARE								
							3,880	CAR LIFT	T	3	30	18
19												
					3,880							20
21	15	3	O	OHD'S		1,884						
						3,880						22
23							1,884					
							3,880	CAR LIFT	T	3	30	24
25					1,884							
					3,880							26
27	15	3	O	OHD'S		1,884						
						3,880						28
29							1,884					
							3,880	CAR LIFT	T	3	30	30
31					1,884							
					3,880							32
33	20	1		SPARE								
						3,880						34
35	20	1		SPARE								
								SPARE		3	30	36
37	20	1		SPARE								
												38
39	20	1		SPARE								
												40
41	20	1		SPARE								
								SPARE		1	20	42
43	60	3	P	SITE MINI POWER STATION "S2A"	4,950							
					2,844			PANEL "L3A"	P	3	60	44
45						4,950						
						2,844						46
48							4,950					
							2,844					48
				TOTAL	45,575	44,495	32,015					

TOTAL CONNECTED LOAD 122.1 KVA
ESTIMATED DEMAND LOAD 87.9 KVA
DEMAND LINE AMPS 106

PANEL H4A SCHEDULE

VOLTS (L-L) 480 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 150 PANEL AMPS 150 PANEL AIC 25,000 MINIMUM
COMMENTS

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	3	M	EF-11	942							
					2,414			STREET AND DRAINAGE SHOP	L	1	20	2
3						942						
						1,420		SIGN SHOP AND STORAGE AND	L	1	20	4
5							942	SANITARY SHOP				
							1,225	STEETS AND DRAINAGE - LIGHTING	L	1	20	6
7	15	3	O	OVERHEAD DOORS	1,884							
					3,603			PLASMA CUTTER	T	3	20	8
9						1,884						
						3,603						10
11							1,184					
							3,603					12
13	20	1		SPARE								
					4,800			WELDER	T	2	20	14
15	20	1		SPARE								
						4,800						16
17	20	1		SPARE								
								SPARE		1	20	18
19	20	1		SPARE								
								SPARE		1	20	20
21	20	1		SPARE								
								SPARE		1	20	22
23	20	1		SPARE								
								SPARE		1	20	24
25				SPACE								
								SPACE				26
27				SPACE								
								SPACE				28
29				SPACE								
								SPACE				30
31				SPACE								
								SPACE				32
33				SPACE								
								SPACE				34
35				SPACE								
								SPACE				36
37				SPACE								
					12,775			PANEL "L4A"	P	3	150	38
39				SPACE								
						12,775						40
41				SPACE								
							12,775					42
												44
												46
												48
				TOTAL	26,418	25,424	19,729					

TOTAL CONNECTED LOAD 71.6 KVA
ESTIMATED DEMAND LOAD 66.5 KVA
DEMAND LINE AMPS 80

PANEL L1A SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 150 PANEL AMPS 150 PANEL AIC 10,000 MINIMUM
COMMENTS PROVIDE INTEGRAL SPD RATED 50KA PER MODE.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	2	M	HP-4	1,144							
					1,500			EH-1	M	2	30	2
3						1,144						
						1,500						4
5	25	2	M	HP-3								
							1,976					
7					1,976			BUILDING MAINTENANCE SHOP NORTH	R	1	20	6
					1,080			EAST				
9	25	2	M	HP-2		1,976		BUILDING MAINTENANCE SHOP EAST	R	1	20	8
						1,080						
11							1,976	BUILDING MAINTENANCE SHOP SOUTH	R	1	20	10
							1,080	WEST				
13	15	1	O	GAS UNIT HEATER	900			BUILDING MAINTENANCE SHOP NORTH	R	1	20	12
					1,000			WEST				
15	15	1	O	GAS UNIT HEATER		900		IT ROOM	R	1	20	14
						1,000						
17	20	1	R	IR HEATER PILOT LIGHT			290	IT ROOM	R	1	20	16
							900	LOCKERROOMS AND RESTROOMS	R	1	20	18
19	20	1		SPARE								
					900			OFFICE 116 EAST	R	1	20	20
21	15	1	M	EF-8 AND EF-9		586						
						720		OFFICE 116 WEST	R	1	20	22
23	20	1		SPARE								
							720	OFFICE 117	R	1	20	24
25	20	1		SPARE								
					360			BREAKROOM 110 NORTH	R	1	20	26
27	20	1		SPARE								
						1,000		BREAKROOM 110 DISHWASHER	R	1	20	28
29	20	1		SPARE								
							540	BREAKROOM 110 SOUTH COUNTER	R	1	20	30
31	20	1		SPARE								
					1,000			BREAKROOM 110 REFRIGERATOR	R	1	20	32
33	20	1		SPARE								
						1,000		BREAKROOM 110 MICROWAVE	R	1	20	34
35	20	1		SPARE								
							1,000	BREAKROOM 110 COFFEE MAKER	R	1	20	36
37	20	1		SPARE								
								SPARE		1	20	38
39	20	1		SPARE								
								SPARE		1	20	40
41	20	1		SPARE								
								SPARE		1	20	42
43	20	1		SPARE								
								SPARE		1	20	44
45	20	1		SPARE								
								SPARE		1	20	46
47	20	1		SPARE								
								SPARE		1	20	48
				TOTAL	9,860	10,906	9,202					

TOTAL CONNECTED LOAD 30.0 KVA
ESTIMATED DEMAND LOAD 26.0 KVA
DEMAND LINE AMPS 72

LOAD TYPE LEGEND

L	=	LIGHTING
R	=	RECEPTACLES
C	=	COMPUTERS
M	=	MOTORS
P	=	PANELS
T	=	TRANSFORMERS
O	=	OTHER
F	=	FUTURE

MDP | H2A | H3A | H4A | L1A

TAP ARCHITECTURE

Horner Associates Engineers
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SEAL

REGISTERED PROFESSIONAL ENGINEER
JULIAN DUANE HORNER
17193
04-30-21
OKLAHOMA

PROJECT

CITY OF MOORE
PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA

ISSUES REVISIONS
100% ISSUE FOR BID
04.30.2021

SHEET TITLE
PANEL SCHEDULES

SHEET NUMBER
E601

PROJECT NUMBER
1707.3

PANEL L2A SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 225 PANEL AMPS 225 PANEL AIC 10,000 MINIMUM
COMMENTS PROVIDE INTEGRAL SPD RATED 50KA PER MODE.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	50	2	T	PARTS WASHER	3,911							
					3,911			PARTS WASHER	T	2	50	2
3						3,911						
						3,911						4
5	20	2	O	ABRASIVE CABINET CIRCUIT 1			1,210					
							3,952	WELDER	T	2	50	6
7				ABRASIVE CABINET CIRCUIT 2	1,210							
					3,952							8
9	20	1	O	TIRE BALANCE		1,200						
						1,373		EQUIPMENT LIFT	T	2	30	10
11	30	2	T	CAR LIFT			1,373					
							1,373					12
13					1,373							
					1,373			EQUIPMENT LIFT	T	2	30	14
15	30	2	T	CAR LIFT		1,373						
						1,373						16
17							1,373					
							1,920	BRAKE CUTTER	T	1	20	18
19	30	2	T	CAR LIFT	1,373							
					1,920			BRAKE CUTTER	T	1	20	20
21						1,373						
						1,920		BRAKE CUTTER	T	1	20	22
23	30	2	T	CAR LIFT			1,373					
							1,920	BRAKE CUTTER	T	1	20	24
25					1,373							
					1,920			BRAKE CUTTER	T	1	20	26
27	30	2	T	CAR LIFT		1,373						
						1,920		BRAKE CUTTER	T	1	20	28
29							1,373					
							1,920	BRAKE CUTTER	T	1	20	30
31	20	1		SPARE								
					1,920			BRAKE CUTTER	T	1	20	32
33	20	1		SPARE								
						1,920		BRAKE CUTTER	T	1	20	34
35	20	1		SPARE								
							1,920	BRAKE CUTTER	T	1	20	36
37	20	1		SPARE								
								SPARE		1	20	38
39	20	1		SPARE								
								SPARE		1	20	40
41	20	1		SPARE								
								SPARE		1	20	42
43	125	3	P	PANEL "L2B"	4,390							
								SPARE		1	20	44
45						4,390						
								SPARE		1	20	46
47							4,390					
								SPARE		1	20	48
				TOTAL	28,626	26,037	24,097					

TOTAL CONNECTED LOAD 78.8 KVA
ESTIMATED DEMAND LOAD 47.1 KVA
DEMAND LINE AMPS 131

PANEL L2B SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN LUGS ONLY DISC. AMPS N/A PANEL AMPS 125 PANEL AIC 10,000 MINIMUM
COMMENTS

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	1	O	GAS UNIT HEATER	900							
					180			AHU-1 RECEPTACLE	R	1	20	2
3	15	1	O	GAS UNIT HEATER		900						
						1,144		HP-1	M	2	15	4
5	20	1	R	IR HEATER PILOT LIGHT			290					
							1,144					6
7	15	1	M	EF-4 AND LOUVER	870							
					540			FLEET MAINTENANCE SOUTH WEST	R	1	20	8
9	20	1		SPARE								
						720		FLEET MAINTENANCE SOUTH EAST	R	1	20	10
11	20	1	R	IR HEATER PILOT LIGHT			290					
							360	FLEET MAINTENANCE COMPRESSOR	R	1	20	12
13	15	1	O	GAS UNIT HEATER	900			CONVENIENCE				
					540			FLEET MAINTENANCE NORTH EAST	R	1	20	14
15	15	1	O	GAS UNIT HEATER		908						
						360		FLEET MAINTENANCE NORTH	R	1	20	16
17	15	1	O	GAS UNIT HEATER			900					
							900	PARTS ROOM 102	R	1	20	18
19	15	1	O	GAS UNIT HEATER	908							
					720			OFFICE 101	R	1	20	20
21	20	1		SPARE								
						720		FLEET MAINTENANCE NORTH WEST	R	1	20	22
23	20	1		SPARE								
							540	FABRICATION SHOP	R	1	20	24
25	20	1		SPARE								
					720			FABRICATION SHOP	R	1	20	26
27	15	1	M	GAS HEAT AHU-1		520						
								SPARE		1	20	28
29	20	1		SPARE								
								SPARE		1	20	30
31	20	1		SPARE								
								SPARE		1	20	32
33	20	1		SPARE								
								SPARE		1	20	34
35	20	1		SPARE								
								SPARE		1	20	36
37	20	1		SPARE								
								SPARE		1	20	38
39	20	1		SPARE								
								SPARE		1	20	40
41	20	1		SPARE								
								SPARE		1	20	42
43	20	1		SPARE								
								SPARE		1	20	44
45	20	1		SPARE								
								SPARE		1	20	46
47	20	1		SPARE								
								SPARE		1	20	48
				TOTAL	6,278	5,272	4,424					

TOTAL CONNECTED LOAD 16.0 KVA
ESTIMATED DEMAND LOAD 13.2 KVA
DEMAND LINE AMPS 37

PANEL L3A SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 100 PANEL AMPS 100 PANEL AIC 10,000 MINIMUM
COMMENTS PROVIDE INTEGRAL SPD RATED 50KA PER MODE.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	1	M	EF-3	696							
					540			VEHICLE MAINTENANCE SOUTH EAST	R	1	20	2
3	20	1		SPARE								
						360		VEHICLE MAINTENANCE SOUTH CENTER	R	1	20	4
5	20	1		SPARE								
							540	VEHICLE MAINTENANCE EAST	R	1	20	6
7	15	1	M	EF-5	1,176							
					360			VEHICLE MAINTENANCE NORTH	R	1	20	8
9	20	1	R	MOBILE LIFT		1,000						
						540		VEHICLE MAINTENANCE SOUTH WEST	R	1	20	10
11	20	1	R	MOBILE LIFT			1,000					
							540	VEHICLE MAINTENANCE WEST	R	1	20	12
13	20	1	R	MOBILE LIFT	1,000							
								SPARE		1	20	14
15	20	1	R	MOBILE LIFT		1,000						
								SPARE		1	20	16
17	20	1	R	MOBILE LIFT			1,000					
								SPARE		1	20	18
19	20	1	R	MOBILE LIFT	1,000							
								SPARE		1	20	20
21	20	1		SPARE								
								SPARE		1	20	22
23	20	1		SPARE								
								SPARE		1	20	24
25		1		SPACE								
								SPARE		1	20	26
27		1		SPACE								
								SPARE		1	20	28
29		1		SPACE								
								SPARE		1	20	30
31		1		SPACE								
								SPARE		1	20	32
33		1		SPACE								
								SPARE		1	20	34
35		1		SPACE								
								SPARE		1	20	36
37		1		SPACE								
								SPARE		1	20	38
39		1		SPACE								
								SPARE		1	20	40
41		1		SPACE								
								SPARE		1	20	42
				TOTAL	4,772	2,900	3,080					

TOTAL CONNECTED LOAD 10.8 KVA
ESTIMATED DEMAND LOAD 8.5 KVA
DEMAND LINE AMPS 24

PANEL L4A SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 225 PANEL AMPS 225 PANEL AIC 10,000 MINIMUM
COMMENTS PROVIDE INTEGRAL SPD RATED 50KA PER MODE.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	2	M	HP-5	1,248							
					900			OFFICE 132	R	1	20	2
3						1,248						
						900		SANITARY SHOP NORTH	R	1	20	4
5	15	2	M	HP-6			1,144					
							720	SANITARY SHOP SOUTH	R	1	20	6
7					1,144							
					1,000			OUTDOOR ICE MACHINE	R	1	20	8
9	15	2	M	HP-7		1,144						
						1,080		LOCKER ROOMS AND RESTROOMS	R	1	20	10
11							1,144	EAST				
							1,080	LOCKER ROOMS AND RESTROOMS	R	1	20	12
13	15	2	M	HP-8	1,248			WEST				
					720			SIGN SHOP AND STORAGE 119 NORTH	R	1	20	14
15						1,248						
						720		SIGN SHOP AND STORAGE 119 SOUTH	R	1	20	16
17	20	1	R	IR HEATER PILOT LIGHT			435					
							540	SIGN SHOP AND STORAGE 119 WEST	R	1	20	18
19	15	1	R	GAS UNIT HEATER	908							
					540			STREETS AND DRAINAGE SHOP NORTH	R	1	20	20
21	20	1		SPARE				EAST				
						540		STREETS AND DRAINAGE SHOP SOUTH	R	1	20	22
23	15	1	M	EF-13			1,176	WEST				
							720	OFFICE 124	R	1	20	24
25	15	1	M	EF-12 AND EF-14	1,055							
					540			STREETS AND DRAINAGE SHOP NORTH	R	1	20	26
27	20	1	R	BREAK ROOM 125 DISHWASHER		1,500		EAST				
						540		STREETS AND DRAINAGE SHOP CENTER	R	1	20	28
29	20	1	R	BREAK ROOM 125 COUNTER			360	NORTH				
							540	STREETS AND DRAINAGE SHOP NORTH	R	1	20	30
31	20	1	R	BREAK ROOM 125 REFRIGERATOR	1,000			WEST				
					540			BREAK ROOM 133 COUNTER	R	1	20	32
33	20	1	R	BREAK ROOM 125		900						
						1,500		BREAK ROOM 133 DISHWASHER	R	1	20	34
35	20	1	R	GAS UNIT HEATER			900					
							1,000	BREAK ROOM 133 REFRIGERATOR	R	1	20	36
37	20	1	R	GAS UNIT HEATER	908							
					720			BREAK ROOM 133	R	1	20	38
39	20	1	O	MOTORIZED LOUVER								
								SPARE		1	20	40
41	20	1	R	GAS UNIT HEATER			900					
								SPARE		1	20	42
43	20	1		SPARE								
					3,179			PANEL "L4B"	P	3	125	44
45	20	1		SPARE								
						3,179						46
47	20	1		SPARE								
							3,179					48
				TOTAL	15,650	14,499	13,838					

TOTAL CONNECTED LOAD 44.0 KVA
ESTIMATED DEMAND LOAD 38.3 KVA
DEMAND LINE AMPS 106

PANEL L4B SCHEDULE

VOLTS (L-L) 208 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN LUGS ONLY DISC. AMPS N/A PANEL AMPS 125 PANEL AIC 10,000 MINIMUM
COMMENTS

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	30	2	T	CAR LIFT	1,373							
					1,000			MOBILE LIFT	R	1	20	2
3						1,373						
								SPARE		1	20	4
5	30	2	T	CAR LIFT			1,373					
								SPARE		1	20	6
7					1,373							
								SPARE		1	20	8
9	30	2	T	CAR LIFT		1,373						
								SPARE		1	20	10
11							1,373					
								SPARE		1	20	12
13	30	2	T	CAR LIFT	1,373							
								SPARE		1	20	14
15						1,373						
								SPARE		1	20	16
17	30	2		SPARE								
								SPARE		1	20	18
19												
								SPARE		1	20	20
21	20	1		SPARE								
								SPARE		1	20	22
23	20	1		SPARE								
								SPARE		1	20	24
25	20	1		SPARE								
								SPARE		1	20	26
27	20	1		SPARE								
								SPARE		1	20	28
29	20	1		SPARE								
								SPARE		1	20	30
31	20	1		SPARE								
								SPARE		1	20	32
33	20	1		SPARE								
								SPARE		1	20	34
35	20	1		SPARE								
								SPARE		1	20	36
37	20	1		SPARE								
								SPARE		1	20	38
39	20	1		SPARE								
								SPARE		1	20	40
41	20	1		SPARE								
								SPARE		1	20	42
				TOTAL	5,119	4,119	2,746					

TOTAL CONNECTED LOAD 12.0 KVA
ESTIMATED DEMAND LOAD 9.5 KVA
DEMAND LINE AMPS 26

PANEL L5A SCHEDULE

VOLTS (L-L) 240 PHASE 3 WIRE 4 S/N BUS YES EG BUS YES MOUNT. SURFACE ENCLOSURE NEMA 1
DISCONNECT MAIN CIRCUIT BREAKER DISC. AMPS 100 PANEL AMPS 100 PANEL AIC 10,000 MINIMUM
COMMENTS PROVIDE INTEGRAL SPD RATED 100KA PER PHASE. PROVIDE HIGH-LEG DELTA WARNING LABEL.

CCT. NO.	TRIP AMP	NO. POLE	LOAD TYPE	LOAD SERVED	LOAD / PHASE (VA) A	B	C	LOAD SERVED	LOAD TYPE	NO. POLE	TRIP AMP	CCT. NO.
1	15	2	T	TIRE BALANCER	1,150							
						1,150		SPARE		3	30	2
3												
												4
5	15	2		SPARE								
												6
7												
					1,992			AIR COMPRESSOR	M	3	30	8
9				SPACE								
						1,992						10
11				SPACE								
							1,992					12
13				SPACE								
								SPACE				14
15				SPACE								
								SPACE				16
17				SPACE								
								SPACE				18
19				SPACE								
								SPACE				20
21				SPACE								
								SPACE				22
23				SPACE								
								SPACE				24
25				SPACE								
								SPACE				26
27				SPACE								
								SPACE				28
29				SPACE								
								SPACE				30
				TOTAL	3,142	3,142	1,992					

TOTAL CONNECTED LOAD 8.3 KVA
ESTIMATED DEMAND LOAD 7.8 KVA
DEMAND LINE AMPS 19

LOAD TYPE LEGEND

L	=	LIGHTING
R	=	RECEPTACLES
C	=	COMPUTERS
M	=	MOTORS
P	=	PANELS
T	=	TRANSFORMERS
O	=	OTHER
F	=	FUTURE

L2A L2B L3A
L4A L4B L5A

TAP ARCHITECTURE
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SEAL

REGISTERED PROFESSIONAL ENGINEER
JULIAN DUANE HORNER
17193
04-30-21
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PROJECT

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PUBLIC WORKS
512 NW 27TH STREET
MOORE, OKLAHOMA 73160

CITY of MOORE OKLAHOMA 1893

ISSUES REVISIONS
100% ISSUE FOR BID
04.30.2021

SHEET TITLE
PANEL SCHEDULES

SHEET NUMBER
E602

PROJECT NUMBER
1707.3

KEY PLAN

PHASE 1 | PHASE 2

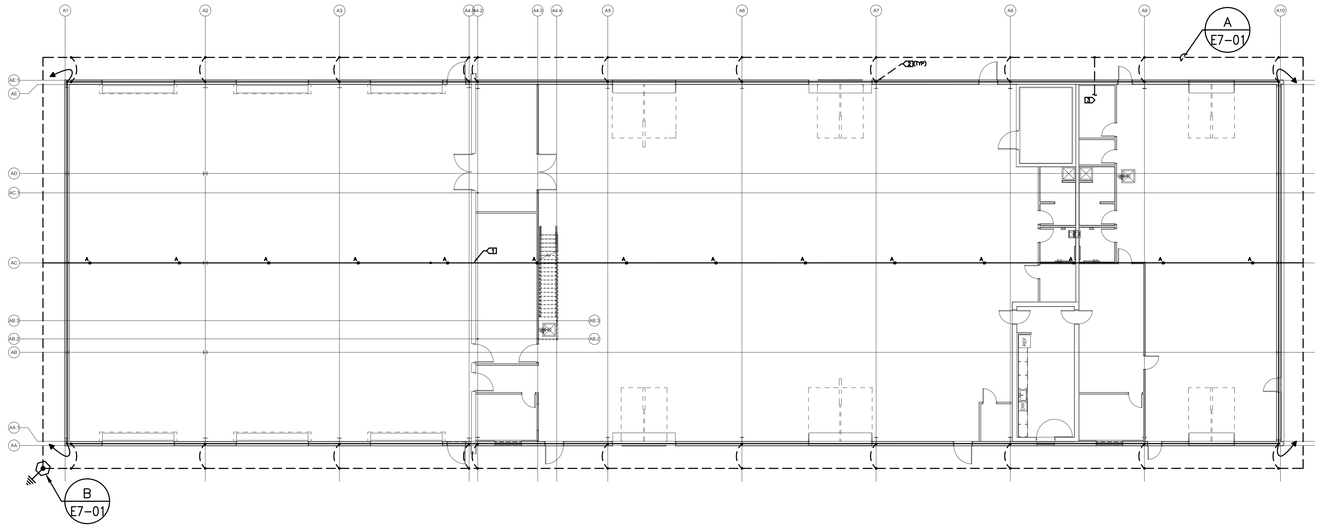
BUILDING A

PHASE 2

BUILDING C

PHASE 1

BUILDING B



GENERAL NOTES:

A. INSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 AND UL REQUIREMENTS.

B. ALL LIGHTNING PROTECTION MAIN AND DOWN CONDUCTORS SHALL BE ROUTED CONCEALED.

C. EXOTHERMICALLY BOND DOWN CONDUCTORS TO STEEL STRUCTURAL MEMBER OR CONCRETE REINFORCING STEEL AT TOP AND BOTTOM OF WALL.

D. PROTECT ALL ROOFTOP MECHANICAL EQUIPMENT AND METALLIC FLUES. RE: MECHANICAL DRAWINGS FOR DETAILS.

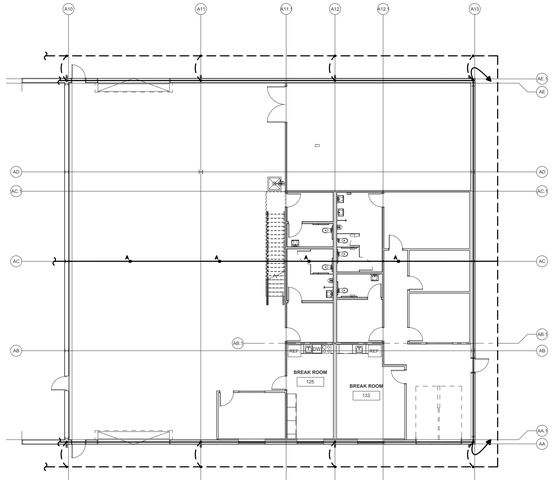
KEYED NOTES:

1. THRU-ROOF CONNECTOR FROM UPPER ROOF.
2. BOND TO COLUMN REINFORCING STEEL, ANCHOR BOLTS AND STEEL COLUMN.
3. BOND TO SERVER ROOM GROUND BAR.

NORTH

01 PHASE 1 BUILDING "A" LIGHTING PROTECTION PLAN

SCALE: 1/16"= 1'-0"



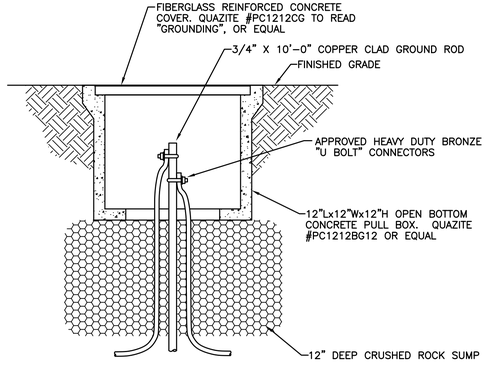
NORTH

01 PHASE 2 BUILDING "A" LIGHTING PROTECTION PLAN

SCALE: 1/16"= 1'-0"

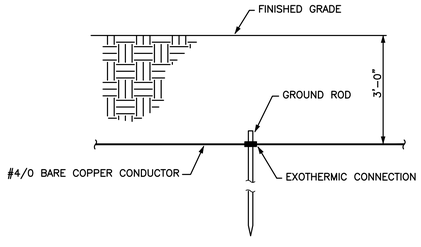
LIGHTNING PROTECTION LEGEND

	MAIN OR BONDING CONDUCTOR MOUNTED ON ROOF
A	10" AIR TERMINAL SURFACE RIDGE-MOUNT BASE.
B	10" AIR TERMINAL WITH VERTICAL SURFACE MOUNT BASE SUITABLE FOR INSTALLATION ON HVAC EQUIPMENT OR PARAPET.
C	10" AIR TERMINAL WITH BASE SUITABLE FOR MECH EQUIPMENT OR STACKS.
	TEE CONNECTOR AND DOWN CONDUCTOR ROUTED CONTINUOUS TO COUNTERPOISE. PROVIDE THRU-ROOF ASSEMBLY IF APPLICABLE
	TEE CLAMP CONNECTOR ON ROOF.
	EXOTHERMIC CONNECTION UNDERGROUND.



B E7 01 | E7 01 TEST WELL DETAIL

SCALE: NONE



A E7 01 | E7 01 COUNTERPOISE GROUND ROD DETAIL

SCALE: NONE

TAP ARCHITECTURE

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CITY of MOORE OKLAHOMA 1998

ISSUES REVISIONS

100% ISSUE FOR BID
04.30.2021

SHEET TITLE

PH. 1 & 2 LIGHTNING PROTECTION PLANS

SHEET NUMBER

E701

PROJECT NUMBER

1707.3