ARKANSAS STATE UNIVERSITY SOCCER & TENNIS FACILITY



Jonesboro, Arkansas

CONSTRUCTION DOCUMENTS

Date: May 16, 2014



CIVIL ENGINEER

ASSOCIATED ENGINEERING
103 S Church St.
Jonesboro, AR 72401
870.932.3594

STRUCTURAL ENGINEER

ENGINEERING CONSULTANTS, INC

401 W. Capitol Ave. Suite 305

Little Rock, AR 72201

501.376.3752

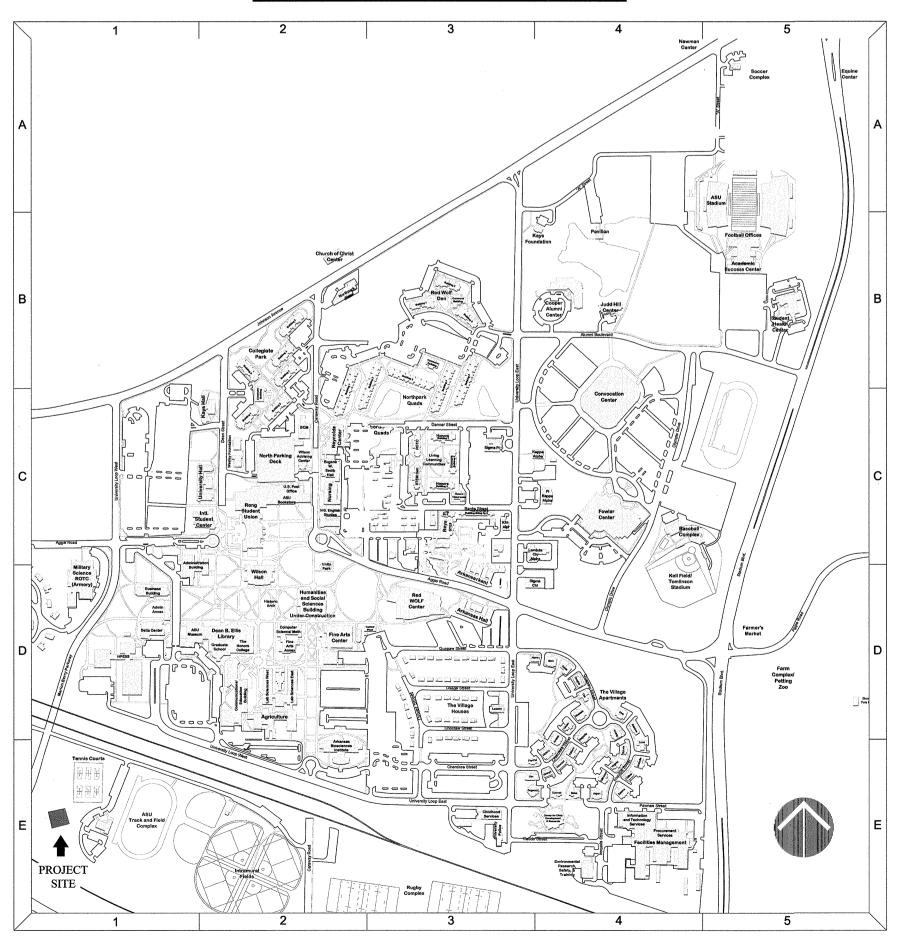
MPE ENGINEERS
PETTIT & PETTIT, INC.
201 East Markham St. Suite 400
Little Rock, AR 72201
501.374.3731

BRA4 100 E Jones 870.9

ARCHITECT:
BRACKETT KRENNERICH & ASSOCIATES P.A
100 East Huntington Ave, Suite D
Jonesboro, Arkansas 72201
870.932.0571

PHASE 1C

SOCCER AND TENNIS FACILITY



PROJECT SITE VICINITY MAP

Honorable Mike Beebe Arkansas Governor

ARKANSAS STATE UNIVERSITY JONESBORO

Dr. Charles L. Welch, President Dr. Tim Hudson, Chancellor

BOARD OF TRUSTEES

Mike Gibson
Dan Pierce
Charles Luter
Howard L. Slinkard
Ron Rhodes

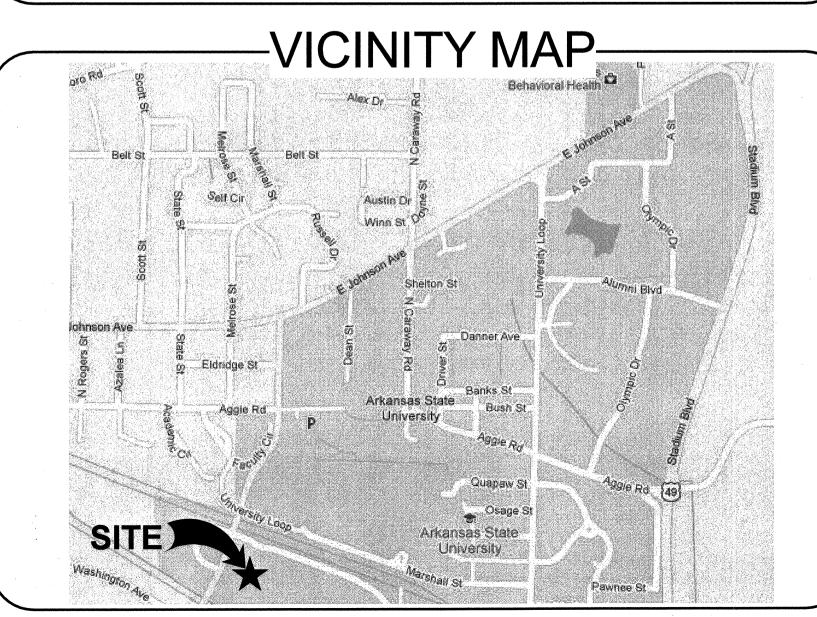
Chair Vice Chair Secretary Member Member

-ABBREVIATIONS-

ABOVE FINISH FLOOR	A.F.F.	MECHANICAL	MECH.
ACOUSTICAL	ACOUST.	METAL THRESHOLD	M.T.
ALUMINUM	ALUM.	NOMINAL	NOM.
APPROXIMATE	APPROX.	NOT IN CONTRACT	N.I.C.
BOTTOM OF FOOTING	B.O.F.	ON CENTER	O.C.
CEILING	CLG.	PLATE	PL
CENTER LINE	<u>မ</u>	REQUIRED	REQ.
EACH	EA.	SIMILAR	SIM.
ELECTRIC WATER COOLER	E.W.C.	SQUARE	SQ.
FINISH	FIN.	SUSPENDED	SUSP.
FIRE EXTINGUISHER	F.E.	TOP OF CURB	T.O.C.
FIRE EXTINGUISHER CABINET	F.E.C.	TOP OF FOOTING	T.O.F.
FLOOR	FLR.	TOP OF WALL / WALK	T.O.W.
GENERAL CONTRACTOR	G.C.	TYPICAL	TYP.
INSULATION	INSUL.	WITH	W/
JOINT	JNT.		

-MATERIALS-

CONCRETE		A A A
STEEL		
METAL STUDS		
CONCRETE BLOCK	•	
PLYWOOD		
FINISH WOOD		
WOOD FRAMING OR BLOCKING		
GYPSUM BOARD		
RIGID INSULATION		
BATT INSULATION	•	
COMPACT FILL		
GRAVEL FILL		
ASPHALT PAVING		
EXTERIOR SHEATHING		



-CODE ANALYSIS-

ARKANSAS FIRE PREVENTION CODE, 2012 VOLUMES 1 & 2 2012 INTERNATIONAL BUILDING CODE WITH STATE **ADMENDMENTS**

2006 ARKANSAS PLUMBING CODE 2010 ARKANSAS MECHANICAL CODE 2011 NATIONAL ELECTRICAL CODE 2006 INTERNATIONAL FUEL AND GAS CODES 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN A.C.A. 12-80-101 ET.SEQ. (ARKANSAS STATE LAW)

OCCUPANCY CLASSIFICATION	Group B, Business
TOTAL BUILDING AREA	3,552 sq.ft. Gross
BUILDING HEIGHT	21'-00"
NUMBER OF STORIES	One (1)
TYPE OF CONSTRUCTION	Type II-B, Unsprinklered
ALLOWABLE HEIGHT(Table 503)	55'-0"
ALLOWABLE AREA(Table 503)	23,000 sq.ft.
MAXIMUM NO. OF STORIES	Three (3)

North -----Greater than 30'-0" to nearest property line or structure East -----Greater than 30'-0" to nearest property line or structure South -----Greater than 30'-0" to nearest property line or structure West -----Greater than 30'-0" to nearest property line or structure

MILLWORK ELEVATIONS, INTERIOR ELEVATIONS

STRUCTURAL

FOUNDATION AND ROOF FRAMING PLANS

WALL SECTIONS AND DETAILS

MILLWORK ELEVATIONS MILLWORK SECTIONS

GENERAL NOTES

WALL SECTIONS

MISC. DETAILS

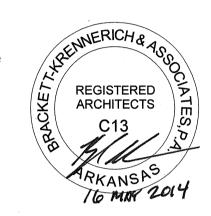
BUILDING SETBACKS

OCCUPANCY LOAD(Table 1004.1.2) ____44 **EXIT REQUIREMENTS**

EXIT ACCESS STRATEGY 1 Hour rated corridor Min. No. of Exits __36"(ADA) Max Distance To Exit_ _200'-0" _.3" Per Person Egress Level_ SEISMIC ZONE_

I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire prevention code for the State of Arkansas.





-INDEX TO DRAWINGS-

	CIVIL		MECHANICAL
C000	TOPOGRAPHIC SURVEY	M101	FLOOR PLAN - HVAC
C001	OVERALL SITE PLAN	M201	HVAC DETAILS AND SECTIONS
C002	ENLARGED SITE PLAN	M301	HVAC SCHEDULES
C003	ENLARGED SITE DEMOLITION PLAN		
C004	ENLARGED GRADING PLANS		
C005	ENLARGED EROSION PLAN		
C006	ENLARGED UTILITY PLAN		
C007	CIVIL DETAILS		PLUMBING
C008	SITE DETAILS	P100	PLUMBING GENERAL NOTES AND LEGENDS
		P101	FLOOR PLAN - PLUMBING
		P102	ROOF PLAN - PLUMBING
		P201	PLUMBING DETAILS
	ARCHITECTURAL	P301	PLUMBING RISERS
A001	LIFE SAFETY PLAN	P401	PLUMBING SCHEDULES
A002	DOOR SCHEDULE, VISUAL DOOR TYPES, ALUMINUM FRAME SCHEDULE, HOLLOW METAL FRAME SCHEDULE AND DETAILS		
A003	ALUMINUM FRAME DETAILS		ELECTRICAL
A004	FINISH FLOOR PLAN, FINISH SCHEDULE, FLOOR	E400	
	TRANSITION DETAILS, VISUAL WALL TYPES	E100	SITE ELECTRICAL PLAN
A100	FLOOR PLAN, PLAN DETAILS	E101	ELECTRICAL - POWER AND LIGHTING PLANS
A101	ROOF PLAN, ROOF DETAILS	E102	ELECTRICAL - SYSTEMS AND FIRE ALARM PLANS
A200	BUILDING ELEVATIONS	E201	ELECTRICAL SYMBOLS AND ABBREVIATIONS
A201	BUILDING ELEVATIONS	E202	ELECTRICAL DETAILS
A202	BUILDING SECTIONS	E301	ELECTRICAL RISERS
A400	REFLECTED CEILING PLAN, CEILING DETAILS	E401	ELECTRICAL SCHEDULES
A500	WALL SECTIONS		
A501	WALL SECTIONS		
A502	WALL SECTIONS		
A600	ENLARGED TOILET PLANS, TOILET ELEVATIONS		

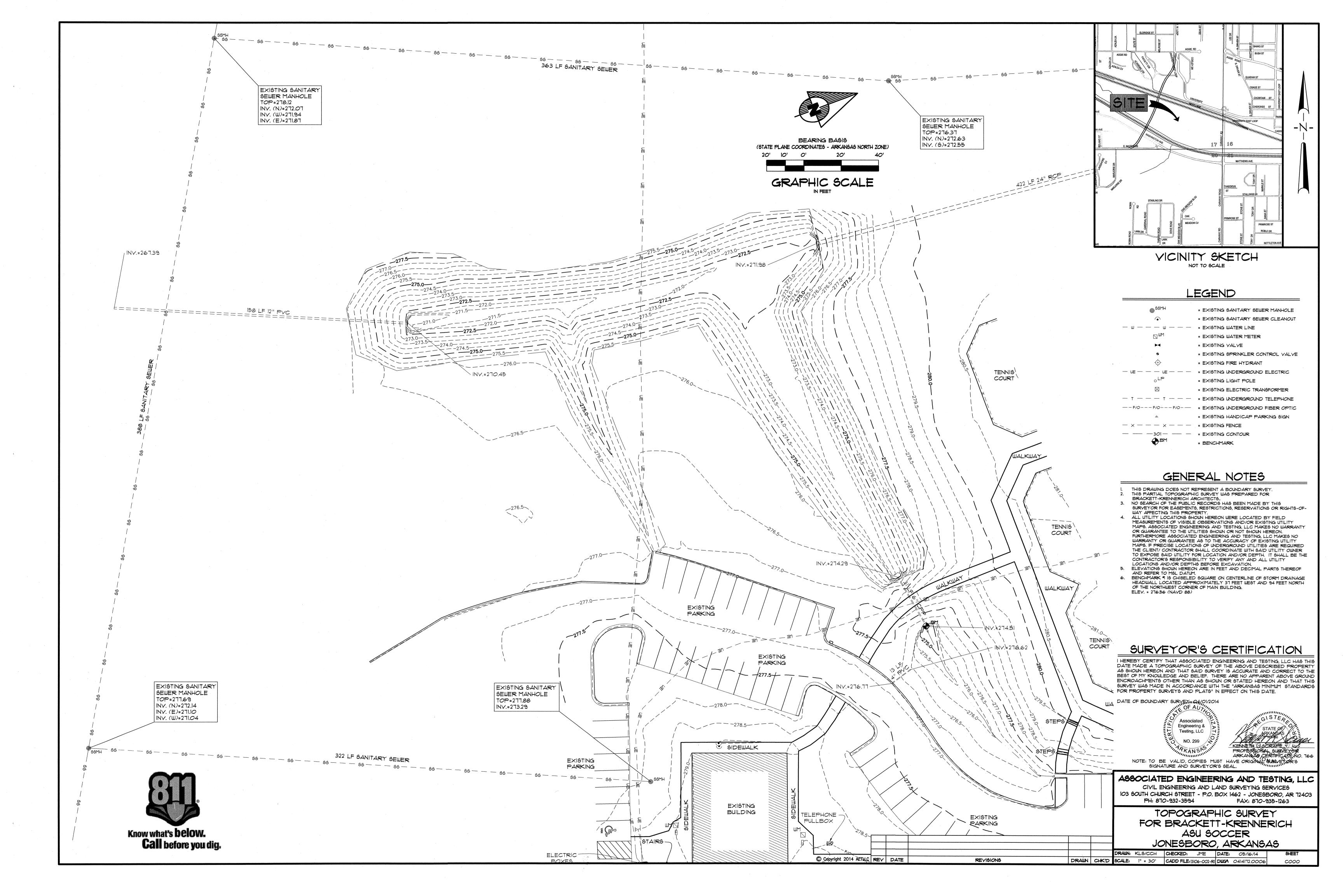
-SCHEDULE OF SPECIAL INSPECTIONS-

			APPLICABLE TO THIS PROJE						
MATERIAL / ACTIVITY	SERVICE	Y/N		·	DATE COMPLETED				
704.2.5 Inspection of Fabricators				:					
/erify fabrication/quality control procedures.	In-plant review		Periodic	7					
705.2 Steel Construction				:					
Structural steel welding:	Shop and field inspection								
a. Single-pass fillet welds ≤ 5/16"b. Deck welds			Periodic Periodic	2					
705.4 Masonry Construction									
Verify compliance with approved submittals	Field Inspection		Periodic	3					
Verification of f'_m and f'_{AAC} prior to construction	Testing by unit strength		Periodic	3					
/erification of Slump Flow and Visual Stability Index VSI) of selfconsolidating grout as delivered to the	method Field testing	`	Continuous	2,3					
project	f ^m iald lagraphing		Daviadia	0.3					
/erify proportions of site-mixed mortar and grout /erify construction of mortar joints	Field Inspection Field Inspection		Periodic Periodic	2,3					
Verify location of reinforcement, connectors, and	Field inspection		Periodic	3					
Inchorages.		1 1 1 1 1 1 1 1 1							
/erify grout space prior to grouting	Field Inspection		Periodic	3					
/erify size, grade, and type of reinforcement. /erify placement of reinforcement, connectors, and	Field inspection		Periodic						
nchorages prior to grouting. Verify size and location of structural masonry	Field inspection Field Inspection		Periodic Periodic	3					
elements	Their mopeonin		1 chodic						
Verify type, size, and location of anchors, including letails of anchorage of masonry to structural nembers, frames, or other construction.	Field inspection		Periodic	3					
Observe preparation of grout specimens, mortar specimens, and/or prisms	Field testing		Periodic	2					
705.6 Soils									
/erify materials below shallow foundations are	Field interaction		Dariadia	4					
dequate to achieve the design bearing capacity.	Field inspection		Periodic						
/erify excavations are extended to proper depth and nave reached proper material.	Field inspection		Periodic	1					
Perform classification and testing of controlled fill naterials.	Field inspection		Periodic	1					
/erify site preparation complies with approved soils	Field inspection		Continuous	1					
eport. /erify use of proper materials, densities, and lift	Field inspection		Continuous	1					
hicknesses during placement and compaction of Prior to placement of controlled fill, observe subgrade and verify that site has been prepared	Field inspection		Periodic	1					
oroperly Verify dry-density of compacted fill complies with	Review field testing		Periodic	1					
approved soils report.					<u> </u>				
705,11 Seismic Resistance respection of Suspended Ceiling system and	Field inspection		Periodic.	2,3	· · · · · · · · · · · · · · · · · · ·				
nchorage. 1705.11.5 Architectural Components Special		<u></u>							
nspections for Seismic Resistance	·								
nspection during the erection and fastening of exterior cladding and interior and exterior veneer.	Field inspection		Periodic	3					
nspection during the erection and fastening of nterior and exterior non load bearing walls.	Field inspection		Periodic	3					
705.11.6 Mechanical and Electrical Components Special Inspections for Seismic									
Resistance	Field inspection	ļ	Periodic	6					
nspection of electrical equipment anchorage. nspection of flammable piping systems and					·				
associated mechanical units.	Field inspection		Periodic	5					
nspection of HVAC and Plumbing equipment anchorage per specifications and drawings.	Field inspection		Periodic	5					
nspection of exterior mechanical and electrical anchorage.	Field inspection		Periodic	5,6					
705.11.4 Designated Seismic System									
/erification nspect and verify that that the component label,			***************************************		**************************************				
anchorage or mounting conforms to the certificate of compliance in accordance with 1705.12.3.	Field inspection		Periodic	5,6					
* INSPECTION AGENTS		<u> </u>			L				
1. TESTING AGENCY	FIRM GEOTECHNICAL ENGIN								
2. TESTING AGENCY	TO BE SELECTED	<u>veek</u>							
3. ARCHITECT	BRACKETT KRENNERIO								
4. STRUCTURAL ENGINEER	ENGINEERING CONSU		S INC.						
5. MECHANICAL ENGINEER 6. ELECTRICAL ENGINEER	PETTIT AND PETTIT IN								
7. STEEL FABRICATOR	TO BE SELECTED	<u> </u>							
lotes: 1. The inspection and testing agent(s) shall be engaged by the		ot by the (Contractor or Subcor	tractor whose work	is to be inspected or				
tested. Any conflict of interest must be disclosed to the Bu	ilding Official prior to commencing wo	rk. The qu	alifications of the Sp	ecial Inspector(s) a	nd/or				
testing agencies are subject to the approval of the Building									

DATE: May 16, 2014

SET NUMBER





COORDINATE EXTENT OF
 DEMOLITION WITH NEW
 SITE PLAN AND GRADING

GENERAL NOTES

2. CONTRACTOR SHALL ASSUME THAT POTENTIAL UNDERCUTTING AND FILL MAY BE REQUIRED BELOW THE SLAB ON GRADE PORTION OF THE BUILDING. THEREFORE, A PRICE IS TO BE INCLUDED IN THE BASE BID FOR 284 CU.YD. OF POTENTIAL CUT AND FILL.

NO POTENTIAL UNDERCUT IS TO BE PERFORMED BY THE CONTRACTOR WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT/OWNER.

3. CONTRACTOR SHALL PROVIDE A UNIT PRICE IN THEIR BID FOR POTENTIAL UNDERCUT AND FILL FOR ADDITIONAL OR DEDUCTIVE WORK AS PROPOSED BY SOILSENGINEER AND APPROVED BYOWNER/ARCHITECT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ANY AND ALL UTILITIES PRIOR TO CONSTRUCTION. CALL ARKANSAS ONE-CALL BEFORE YOU DIG.

overall site plan

SCALE: 1" = 50'-0"

EXISTING TRACK

EXISTING TENNIS COURTS

EXISTING TRACK FACILITY F.F.E. 280.0'

EXISTING / PARKING

FACILITY F.F.E. 278.0'

CO01

Date: May 16, 2014

REGISTERED ARCHITECTS

Commission Number 12012 – IC



ARKANSAS STATE UNIVERSITE PHASE 10 - SOCIER & TENNIS FACILITY

SRACKETT UK

EMERGENCY TELEPHONESEE ELEC.

GENERAL NOTES

1. COORDINATE EXTENT OF
DEMOLITION WITH NEW
SITE PLAN AND GRADING

PLAN.

2. CONTRACTOR SHALL ASSUME THAT POTENTIAL UNDERCUTTING AND FILL MAY BE REQUIRED BELOW THE SLAB ON GRADE PORTION OF THE BUILDING. THEREFORE, A PRICE IS TO BE INCLUDED IN THE BASE BID FOR 284 CU.YD. OF POTENTIAL CUT AND FILL.

SITE PLAN LEGEND

DETECTABLE WARNING STRIP

NO POTENTIAL UNDERCUT IS TO BE PERFORMED BY THE CONTRACTOR WITHOUT PRIOR WRITTEN APPROVAL OF ARCHITECT/OWNER.

3. CONTRACTOR SHALL PROVIDE A UNIT PRICE IN THEIR BID FOR POTENTIAL UNDERCUT AND FILL FOR ADDITIONAL OR DEDUCTIVE WORK AS PROPOSED BY SOILSENGINEER AND APPROVED BYOWNER/ARCHITECT.

SOILSENGINEER AND APPROVED BYOWNER/ARCHITECT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ANY AND ALL UTILITIES PRIOR TO CONSTRUCTION. CALL ARKANSAS ONE-CALL BEFORE YOU DIG.

site plan

Revision Schedule

Tag Rev. Description Rev. Date by

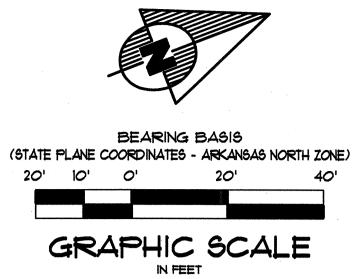
P. P. P. Date by

S. P. P. Date by

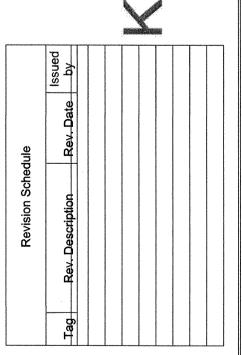


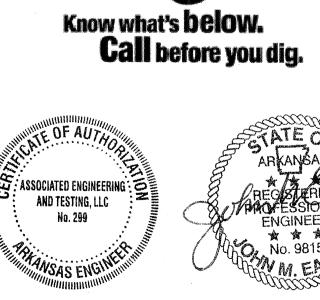
Commission Number 12012 – IC

COO2









Commission Number 12012 - IC

C003

Date: May16, 2014

ASSOCIATED ENGINEERING AND TESTING, LLC CIVIL ENGINEERING AND LAND SURVEYING SERVICES
103 SOUTH CHURCH STREET - P.O. BOX 1462 - JONESBORO, AR 72403
PH: 870-932-3594 FAX: 870-935-1263

RRIGATION 3 METER

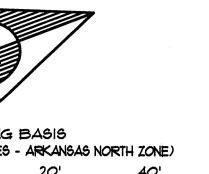


BEARING BASIS (STATE PLANE COORDINATES - ARKANSAS NORTH ZONE)



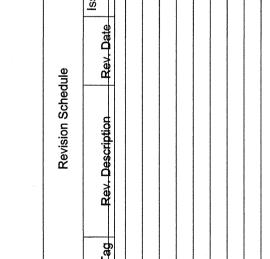
1. EXISTING TOPOGRAPHIC SURVEY WAS PREPARED BY: ASSOCIATED ENGINEERING & TESTING, LLC 103 SOUTH CHURCH STREET - P.O. BOX 1462 JONESBORO, AR 12403

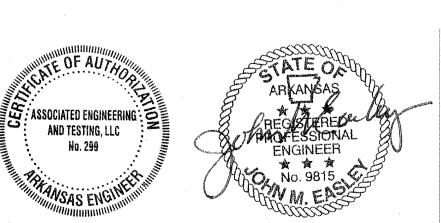
- VERTICAL DATUM IS BASED ON NAVD 88 AS PER GPS OBSERVATION (AS SHOWN ON TOPOGRAPHIC SURVEY).
- 3. NEITHER THE OWNER OR THE ENGINEER SHALL BE HELD RESPONSIBLE FOR THE ACCURACY AND OMISSION ERRORS RESULTING FROM THE SURVEY, NOR FOR SUBSURFACE CONDITIONS. THE CONTRACTOR SHOULD MAKE HIS OWN DETERMINATION CONCERNING SUBSURFACE CONDITIONS.
- 4. PIPE SHALL BE R.C.P. FOR ALL ROAD CROSSINGS. ULTRA FLO STORM PIPES MAY BE USED IN OTHER APPLICATIONS WITH ENGINEER'S APPROVAL.
- 5. THROUGHOUT ALL EXCAVATION ACTIVITIES, POSITIVE DRAINAGE SHALL BE MAINTAINED WITHIN MINIMUM SLOPES OF 050% OR GREATER AND SURFACE DRAINAGE GENERALLY IN THE DIRECTION PROVIDED BY EXISTING TOPOGRAPHY.
- 6. WORK SHALL PROGRESS IN SUCH A MANNER AS TO ALLOW EXISTING VEGETATION TO REMAIN AS LONG AS POSSIBLE, CONSISTENT WITH THE SCOPE OF WORK.
- 7. ALL SPOT ELEVATIONS ARE AS SHOWN, UNLESS OTHERWISE
- 8. DUST SHALL KEPT AT TOLERABLE LIMITS.
- 10. ALL ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%. ALL ACCESSIBLE PARKING SPACES SHALL HAVE A MAXIMUM SLOPE OF 2.0% IN ALL DIRECTIONS.
- 11. DRAIN FG ELEVATION SHOWN IS AT NATURAL GROUND. 12. EXISTING SOD TO BE REMOVED AND DISPOSED OF AS
- DIRECTED BY ASU FACILITIES MANAGEMENT. 13. BEFORE NEW SOD IS INSTALLED, SUBGRADE TO SHAPED
- AND COMPACTED ACCORDING TO SPECIFICATIONS.
- 14. ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF AND REFER TO MSL DATUM.
- 15. BENCHMARK # 16 A CHISELED SQUARE ON CENTERLINE OF STORM DRAINAGE HEADWALL LOCATED APPROXIMATELY
 37 FEET WEST AND 94 FEET NORTH OF THE NORTHWEST
 CORNER OF MAIN BUILDING.
 ELEV. = 276.56 (NAVD 88).











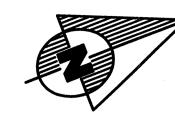
12012 - IC C004

Commission Number

Date: Maylb, 2014

ASSOCIATED ENGINEERING AND TESTING, LLC CIVIL ENGINEERING AND LAND SURVEYING SERVICES 103 SOUTH CHURCH STREET - P.O. BOX 1462 - JONESBORO, AR 72403 FAX: 870-935-1263

PH: 870-932-3594



BEARING BASIS (STATE PLANE COORDINATES - ARKANSAS NORTH ZONE)



LEGEND

= DRAINAGE FLOW = SILT FENCE

= DUMPED RIPRAP

= CONSTRUCTION ENTRANCE = INLET PROTECTION

EROSION CONTROL MEASURES

- THE PURPOSE OF THIS PLAN IS TO ESTABLISH MINIMUM EROSION CONTROL MEASURES. THIS PLAN IS NOT INTENDED TO COVER ALL MEASURES, BUT TO SUPPLEMENT, EXPAND OR IMPLEMENT THE REQUIREMENTS OF THE STATE OF ARKANSAS NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT).
- SILT FENCING SHALL BE PLACED ALONG THE LIMITS OF CONSTRUCTION AND AROUND EACH DRAINAGE STRUCTURE PRIOR TO CONSTRUCTION.
- 3. GRAYEL CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AT PROPOSED DRIVEWAY LOCATIONS TO PREVENT TRANSPORT OF SEDIMENT OFF SITE. WHEEL WASH FACILITIES MAY BE REQUIRED.
- 4. THE OWNER SHALL BE RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL MEASURES AND FACILITIES IN GOOD WORKING CONDITION THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD. ANY FAILURES IN THE MEASURES MUST BE IMMEDIATELY REPAIRED. EROSION CONTROL MEASURES AND FACILITIES SHALL BE FREQUENTLY INSPECTED FOR COMPLIANCE. FAILURE TO INSTALL OR MAINTAIN THESE FACILITIES MAY RESULT IN DENIAL OF BUILDING INSPECTIONS UNTIL ALL PROBLEMS ARE CORRECTED. CONTRACTORS SHALL BE HELD ACCOUNTABLE FOR CONSTRUCTION VEHICLES TRACKING DIRT AND MUD ONTO PUBLIC STREETS. CONTRACTORS SHALL PUT INTO PLACE APPROPRIATE FACILITIES TO CLEAN VEHICLES BEFORE THEY ENTER STREETS. THE CONTRACTOR SHALL FREQUENTLY SWEEP THE ACCESS
- 5. THE OWNER SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE OF INTENT WITH THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ).

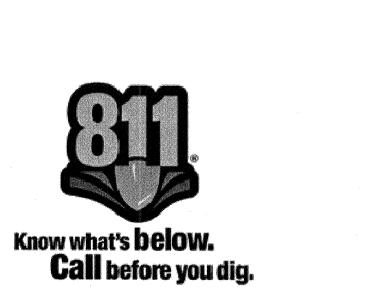


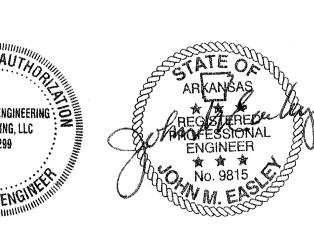


PH: 870-932-3594



12012 - IC





CIVIL ENGINEERING AND LAND SURVEYING SERVICES 103 SOUTH CHURCH STREET - P.O. BOX 1462 - JONESBORO, AR 12403

CADD FILE: 13106-SDP-PIA-R5 ASSOCIATED ENGINEERING AND TESTING, LLC

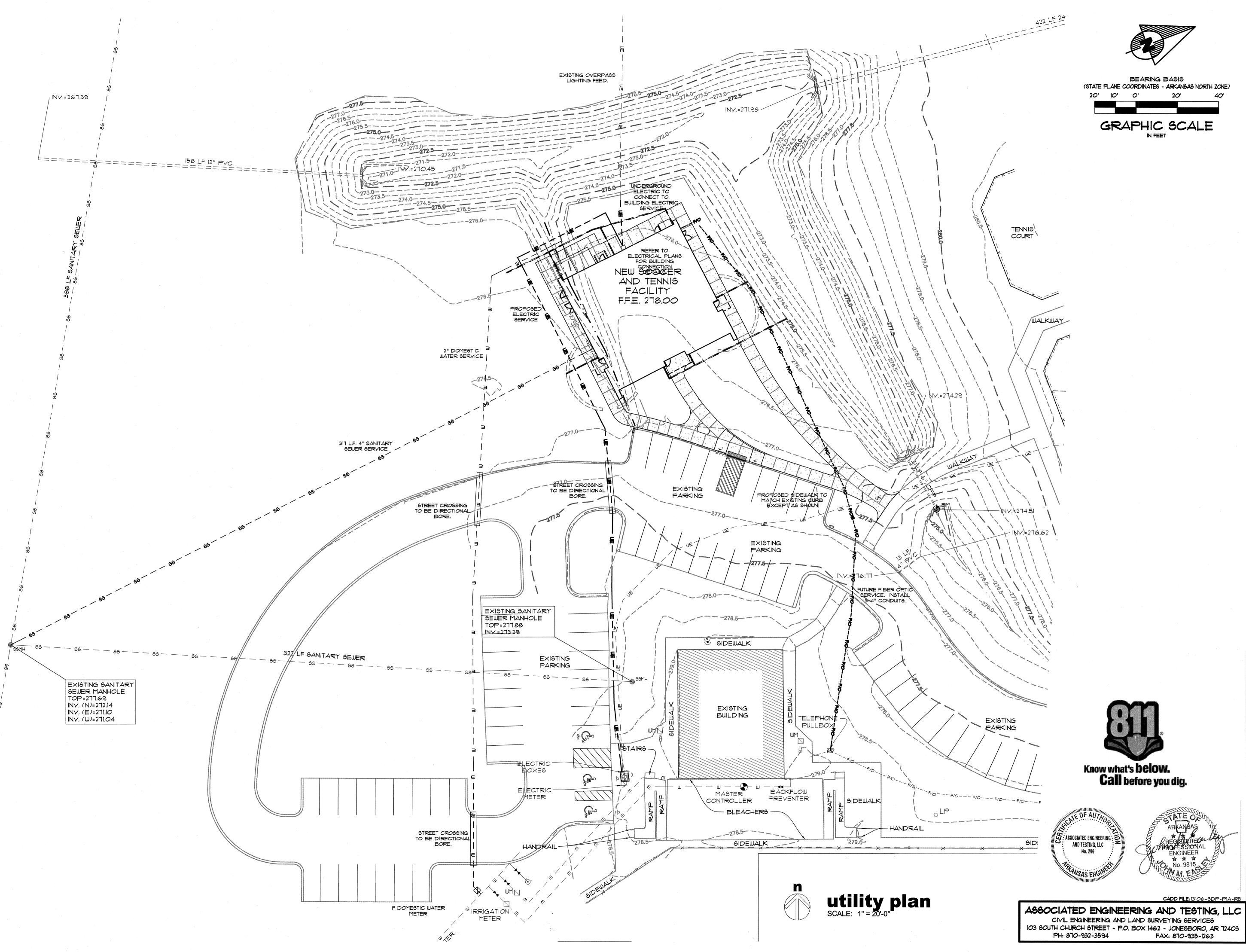
FAX: 870-935-1263

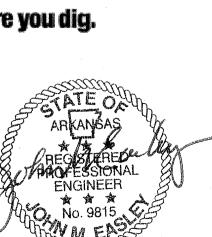
Date: May /6, 2014

Commission Number

C005

 DUST SHALL BE KEPT TO A MINIMUM. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED LIQUIDS FOR DUST SUPPRESSION ARE PROHIBITED. T. ALL WORK ON THIS SITE PERTAINING TO EXCAVATION AND DRAINAGE SHALL BE IN ACCORDANCE WITH THIS PLAN AND THE APPLICABLE PROVISIONS OF THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) ADDITIONAL CONTROLS MAY BE REQUIRED BY THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ) DURING CONSTRUCTION. GUIDELINES ESTABLISHED BY THE SOIL CONSERVATION SERVICE MAY BE REQUIRED FOR SEEDING OPERATIONS IF DETERMINED NECESSARY. 9. INLET PROTECTION TO BE INSTALLED AROUND EXISTING INLETS LOCATED WITHIN THE PROPOSED SOCCER FIELD LIMITES DURING CONSTRUCTION. PROTECTION TO BE REMOVED PRIOR TO SOD PLACEMENT. PROTECTION AROUND INLETS OUTSIDE OF FIELD LIMITS TO REMAIN DURING ENTIRE CONSTRUCTION ACTIVITIES.





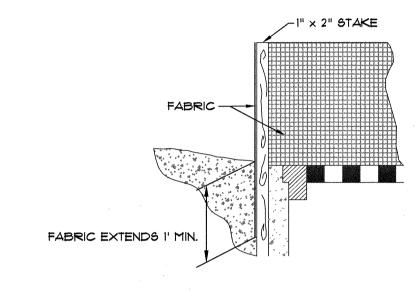
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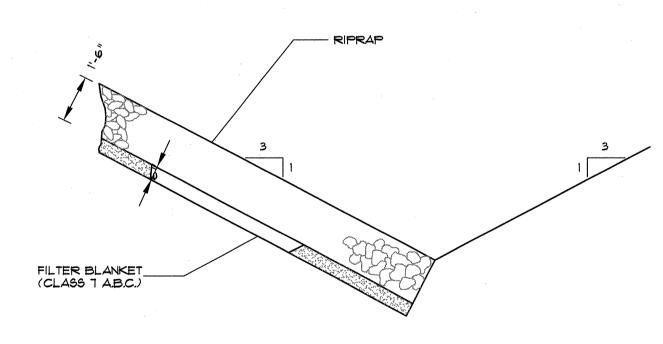
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Commission Number 12012 - IC

C006

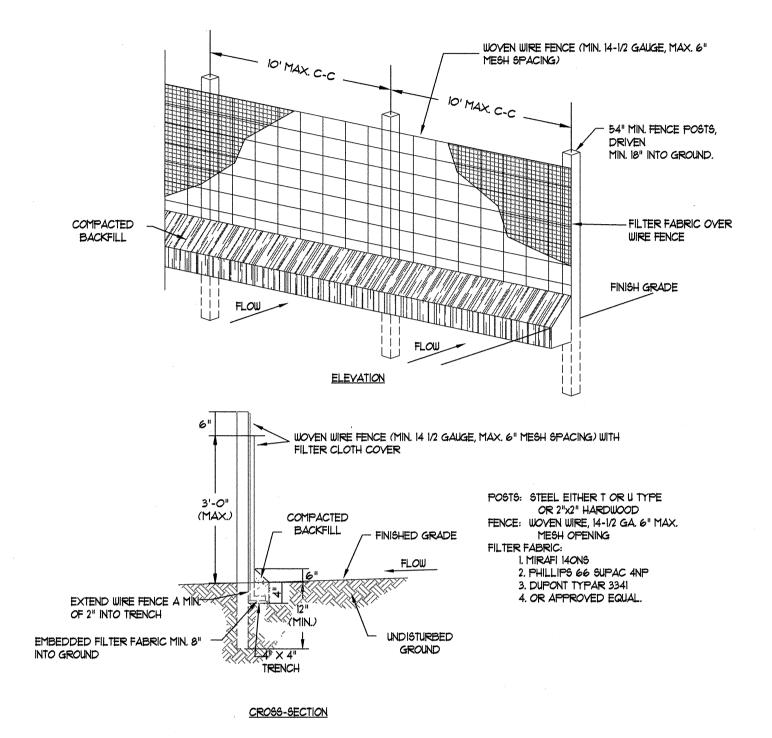


SILT FENCE INLET PROTECTION SCALE: 1/2" = 1'-0"



NOTE: IN LIEU OF AN AGGREGATE FILTER BLANKET, A SYNTHETIC FIBER GEOTEXTILE FABRIC MEETING THE REQUIREMENTS OF AASHTO M288 MAY BE USED. IN LIEU OF RIPRAP, AN EROSION CONTROL MAT MAY BE USED.

SECTION - DUMPED RIPRAP
TOE EXCAVATION IN SOIL



1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER COOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24"

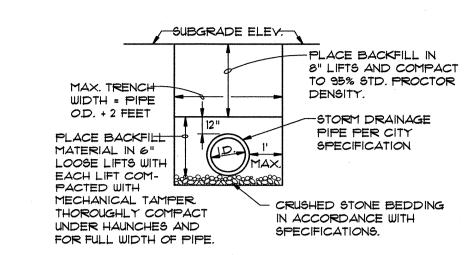
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY

SIX INCHES AND FOLDED.

4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

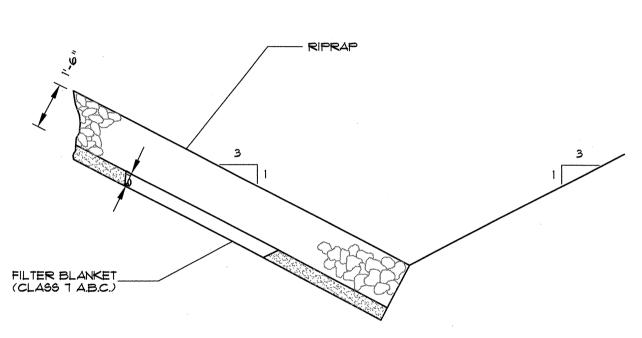
SILT FENCE PROTECTION 6" MINIMUM 2"-3" STONE GEOTEXTILE UNDERLINER

CONSTRUCTION ENTRANCE



DRAINAGE PIPE TRENCH DETAIL

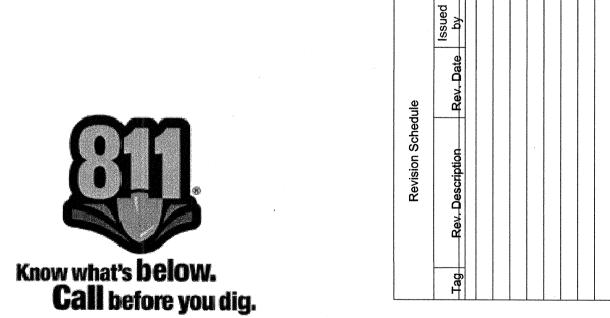
NOTE: TO BE USED WITH NEW STREET CONSTRUCTION. SEE DRAWING NO. PT-1 FOR EXISTING STREET CUTS.

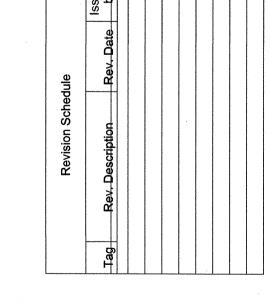


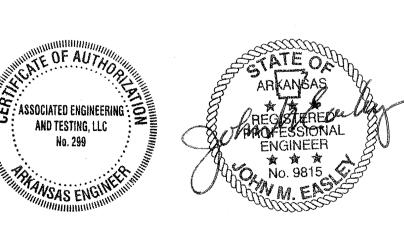
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SECTION - DUMPED RIPRAP
TOE EXCAVATION IN SOIL







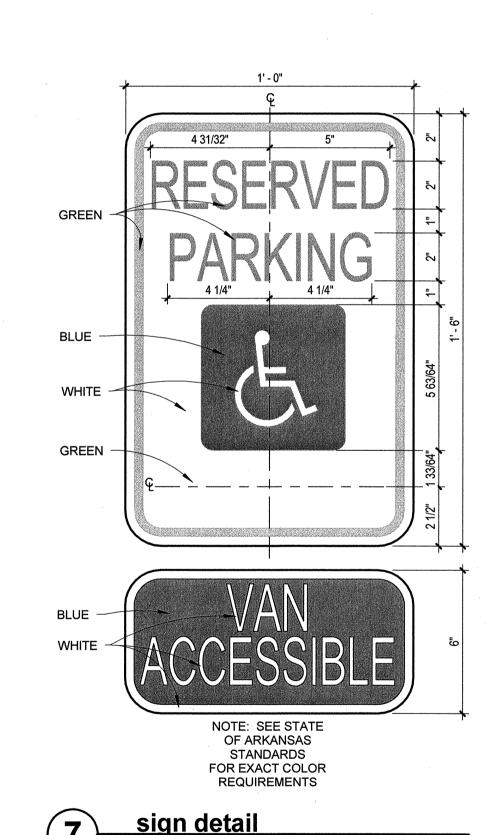


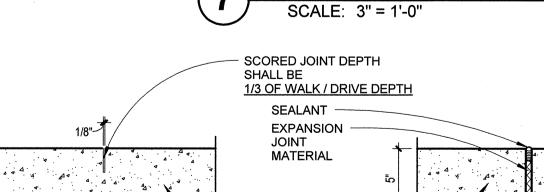
ASSOCIATED ENGINEERING AND TESTING, LLC CIVIL ENGINEERING AND LAND SURVEYING SERVICES 103 SOUTH CHURCH STREET - P.O. BOX 1462 - JONESBORO, AR 72403 PH: 870-932-3594 FAX: 870-935-1263

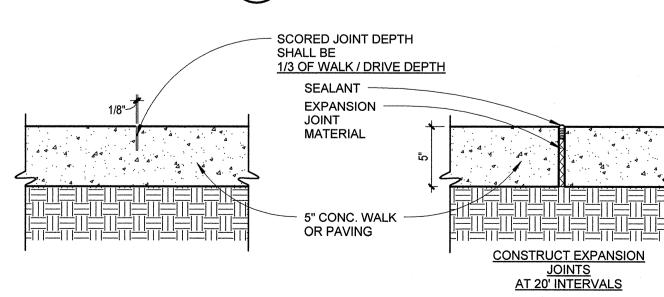
Commission Number 12012 - IC

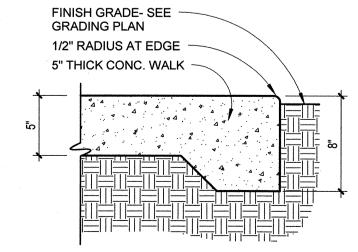
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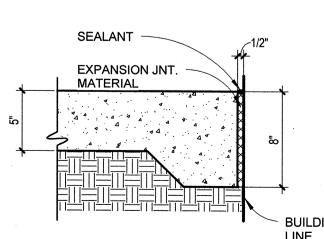
Date: May 16, 2014

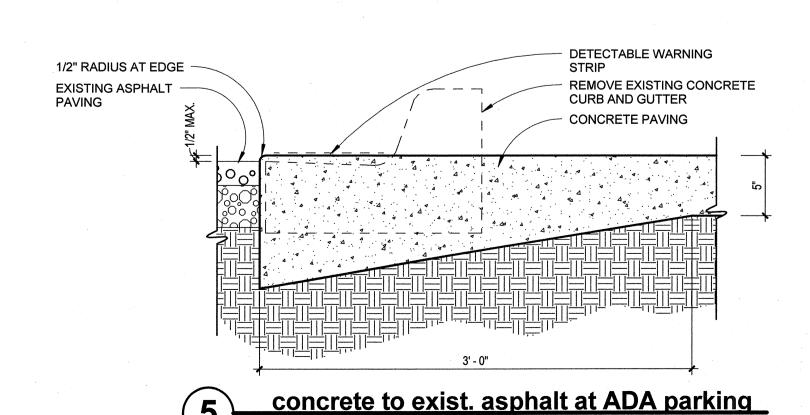












new walk at existing

#3 X 18" AT 18" O.C. DRILL EXISTING WALK

AND SET DOWEL IN

EPOXY GROUT

NEW CONCRETE WALK

joint details

- 1/2" EXPANSION JOINT

EXISTING CONC.

WALK

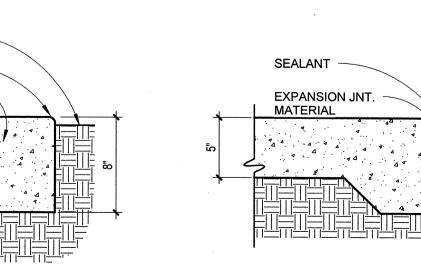
SEE SIGN DETAIL 8'X1 3/4" SQUARE BREAKAWAY POST- SA-SO ITEM NO. 03287 TOP SLEEVE & BASE AT 4" ABOVE FINISH GRADE INSERT POST 6" MIN. INTO SLEEVE & BASE, SECURE WITH 2-5/16"X3" GALVANIZED NUT & BOLT ASSEMBLIES WITH LOCK WASHER 18"X2 1/4" SLEEVE - - SA-SO ITEM NO. 03296

3"x2" BASE-SA-SO ITEM

NO. 03295

handicapped sign (ASU)

NOTE: PROVIDE ONE SIGN FOR EACH HANDICAPPED PARKING SPACE

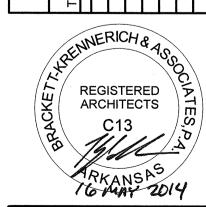


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PHASE 1C - SOCCER & TENNIS F
Jonesboro, Arkansas

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Revision Schedule

Tag Rev. Description Rev. Date by



Commission Number 12012 - IC A001

A U U I

Date: May 16, 2014

TENNIS STORAGE

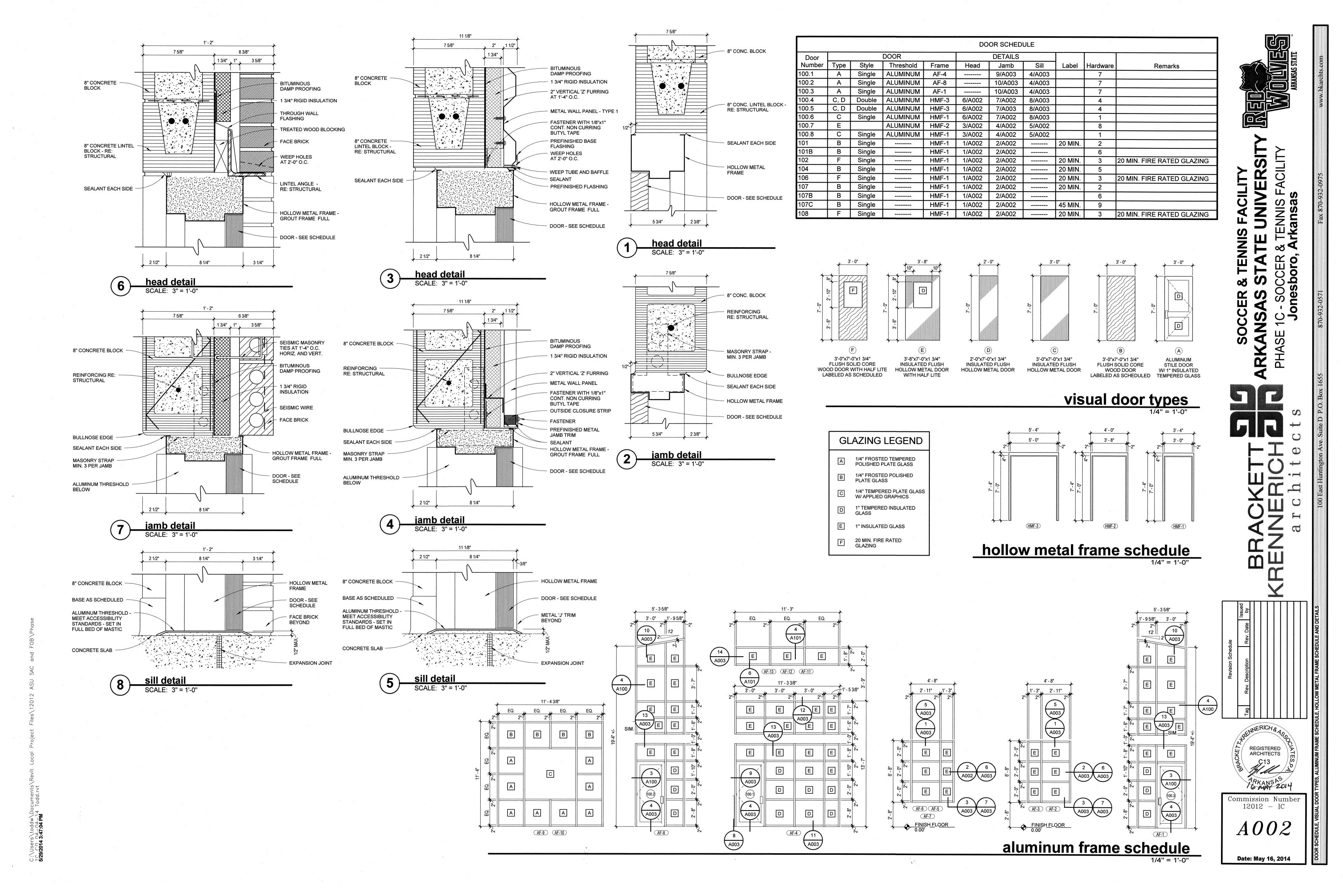
X01

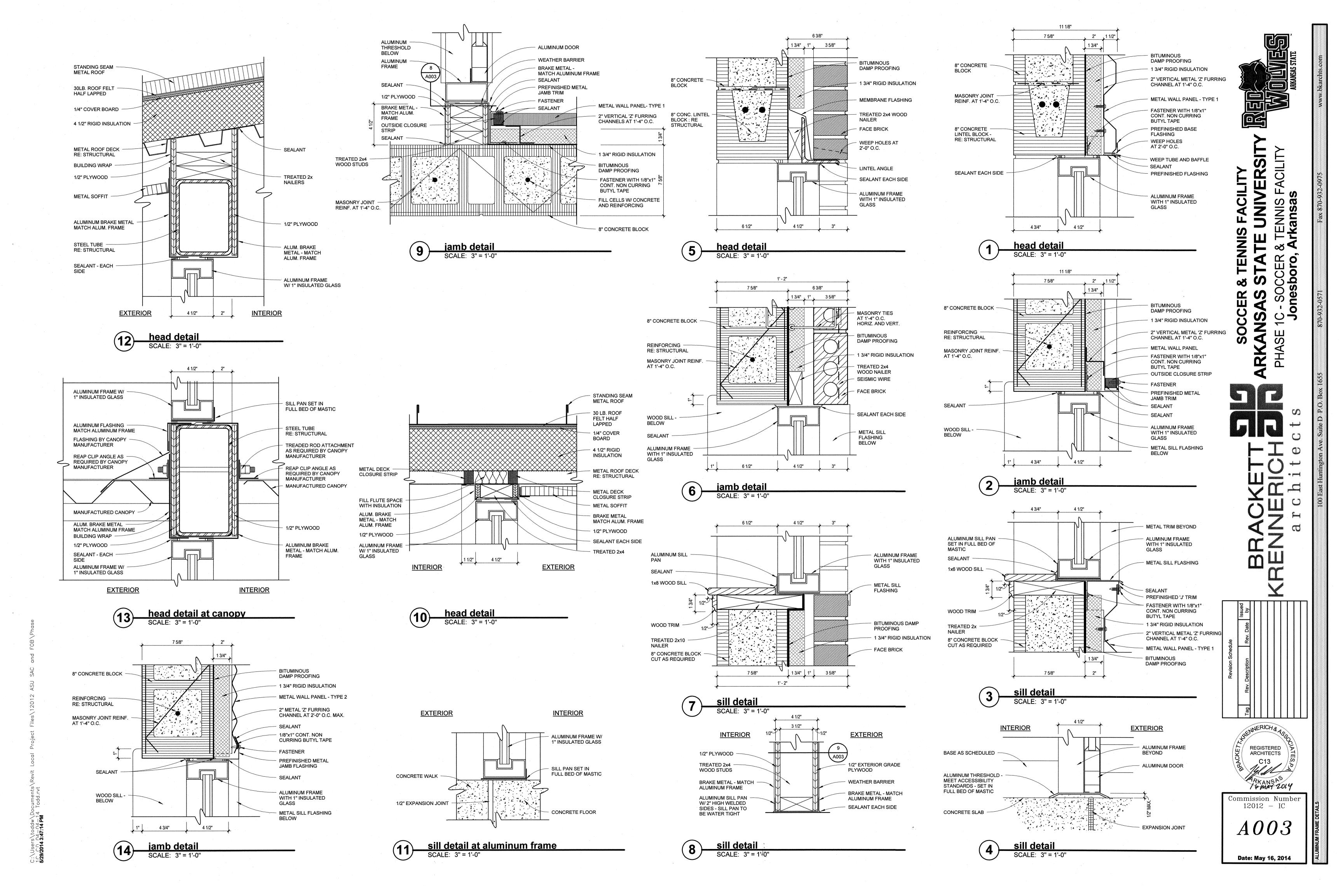
LOUNGE
101A

LOUNGE
101

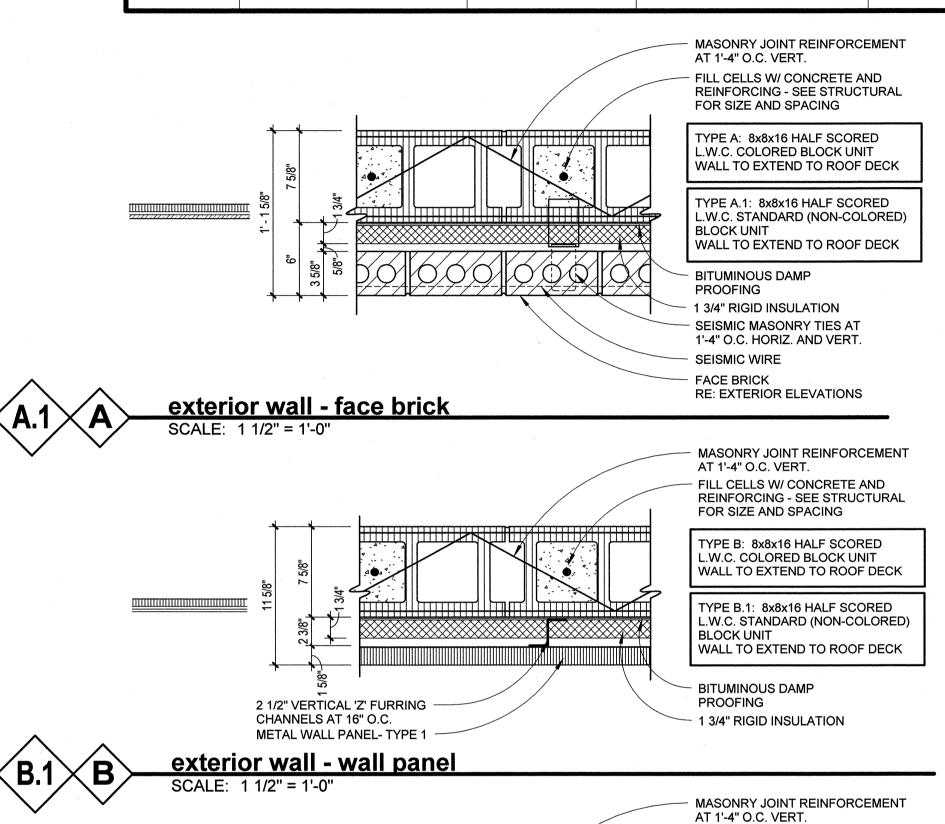
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SCALE: 1/8" = 1'-0"



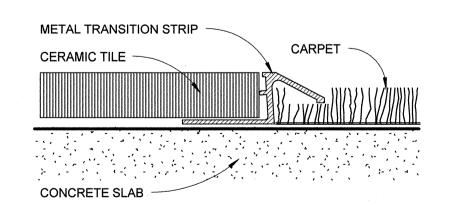


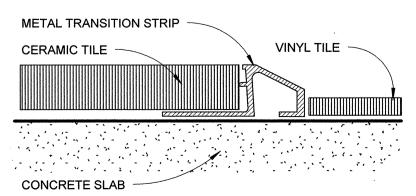
	FINISH SCHEDULE													
·														
Room No.	Room Name	Floor Finish	Base	North	East	South	West	Ceiling Finish						
404	LODDY		41 PLIPPED 001/E	OF ALED OMIL	OF ALED CAME	OF ALED ONLY	OF ALED ONLY	EVPOOED OF HIS PARTIES OVER DO ARRO OLOUP						
101	LOBBY	LVT	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	EXPOSED CEILING/PAINTED GYP BOARD CLOUD						
101A	LOUNGE	LVT	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	EXPOSED CEILING/PAINTED GYP BOARD CLOUD						
101B	TOILET	VCT	4" RUBBER COVE	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED CMU	TYPE B - SUSPENDED ACOUSTICAL CEILING						
101C	TENNIS LOCKER ROOM	LVT	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	EXPOSED CEILING/PAINTED GYP BOARD CLOUD						
102	HEAD TENNIS COACH	MODULAR CARPET	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	TYPE A - SUSPENDED ACOUSTICAL CEILING						
104	TOILET	CERAMIC TILE	CERAMIC COVE	SEALED CMU	EPOXY COATED/SEALED CMU	EPOXY COATED/SEALED CMU	SEALED CMU	TYPE B - SUSPENDED ACOUSTICAL CEILING						
106	ASSIST. SOCCER COACH	MODULAR CARPET '	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	TYPE A - SUSPENDED ACOUSTICAL CEILING						
107	LOBBY	LVT	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	EXPOSED CEILING/PAINTED GYP BOARD CLOUD						
107A	LOUNGE	LVT	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	EXPOSED CEILING/PAINTED GYP BOARD CLOUD						
107B	SHOWERS	VCT	4" RUBBER COVE	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED GYP. BOARD						
107C	LAUNDRY	VCT	4" RUBBER COVE	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED CMU	EPOXY COATED CMU	TYPE B - SUSPENDED ACOUSTICAL CEILING						
107D	SOCCER LOCKER ROOM	LVT/CPT	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	TYPE A - SUSPENDED ACOUSTICAL CEILING						
108	HEAD SOCCER COACH	MODULAR CARPET	4" RUBBER COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	TYPE A - SUSPENDED ACOUSTICAL CEILING						
AAC01	CORRIDOR	CERAMIC TILE	CERAMIC COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	PAINTED STRUCTURE AND METAL DECKING						
AAL01	LOBBY	CERAMIC TILE	CERAMIC COVE	SEALED CMU	SEALED CMU	SEALED CMU	SEALED CMU	PAINTED STRUCTURE AND METAL DECKING						
X01	TENNIS STORAGE	SEALED CONCRETE		PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED STRUCTURE AND METAL DECKING						
X02	ΙΤ	SEALED CONCRETE		PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED STRUCTURE AND METAL DECKING						
X03	MECH./ELEC.	SEALED CONCRETE		PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED STRUCTURE AND METAL DECKING						
X04	SOCCER STORAGE	SEALED CONCRETE		PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED CMU	PAINTED STRUCTURE AND METAL DECKING						

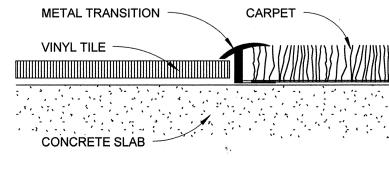


AT 1'-4" O.C. VERT. FILL CELLS W/ CONCRETE AND REINFORCING - SEE STRUCTURAL FOR SIZE AND SPACING TYPE C: 8x8x16 HALF SCORED L.W.C. COLORED BLOCK UNIT WALL TO EXTEND TO ROOF DECK TYPE C.1: 8x8x16 HALF SCORED L.W.C. STANDARD (NON-COLORED) BLOCK UNIT WALL TO EXTEND TO ROOF DECK BITUMINOUS DAMP METAL WALL PANEL- TYPE 2 - 1 3/4" RIGID INSULATION

2" HORIZONTAL METAL 'Z' FURRING CHANNELS AT 2'-0" O.C. exterior wall - wall panel

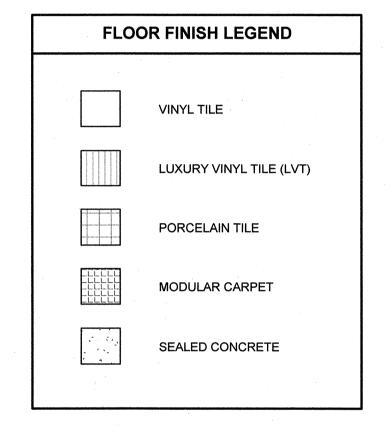


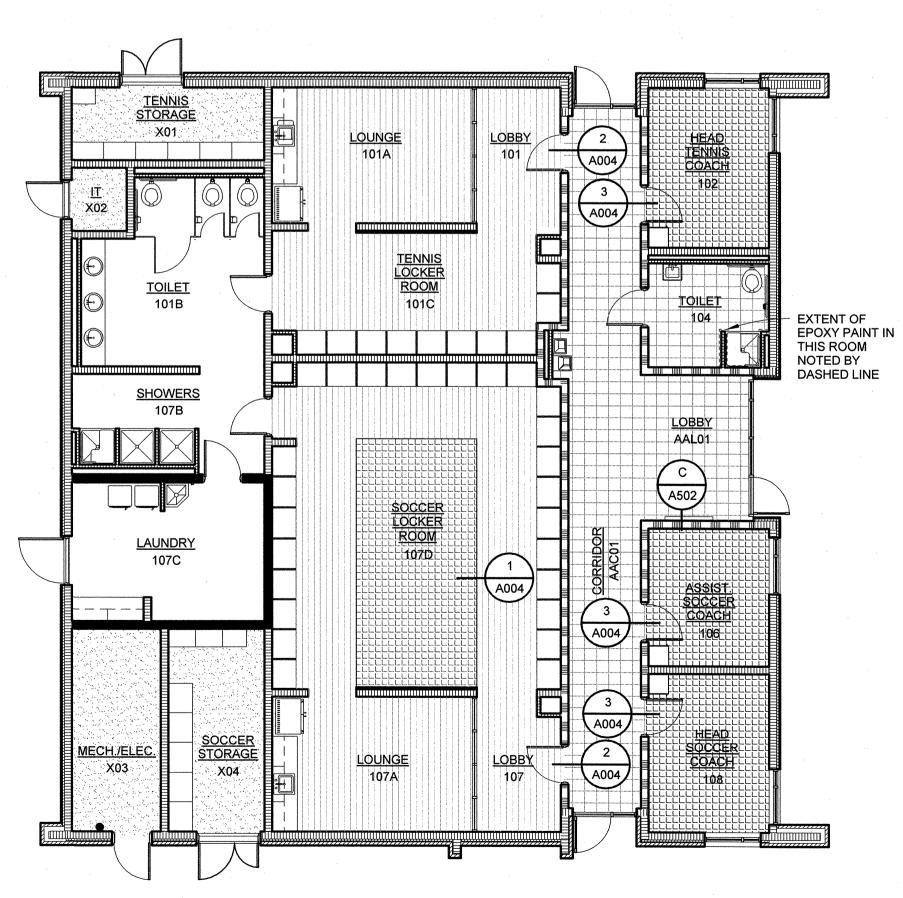




NOTE: ALL COLORED BLOCK IS NOT TO BE PAINTED (UNLESS NOTED OTHERWISE)

NOTE: IN TOILET 104, WALLS ARE COLORED CMU TO BE SEALED EXCEPT FOR. AREA AROUND SHOWER, WHICH IS TO RECEIVE EPOXY PAINT - SEE FINISH PLAN.





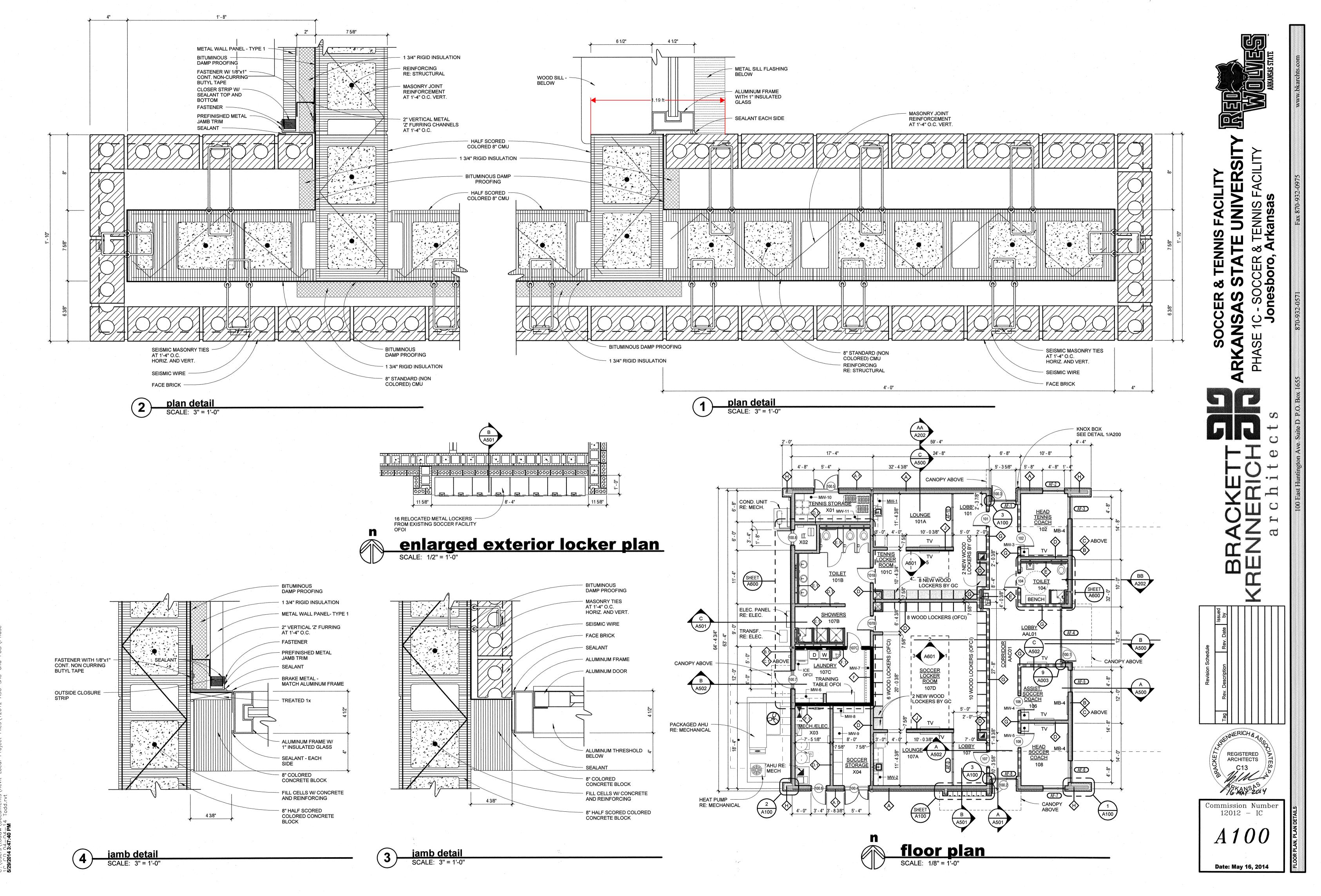


TENNIS

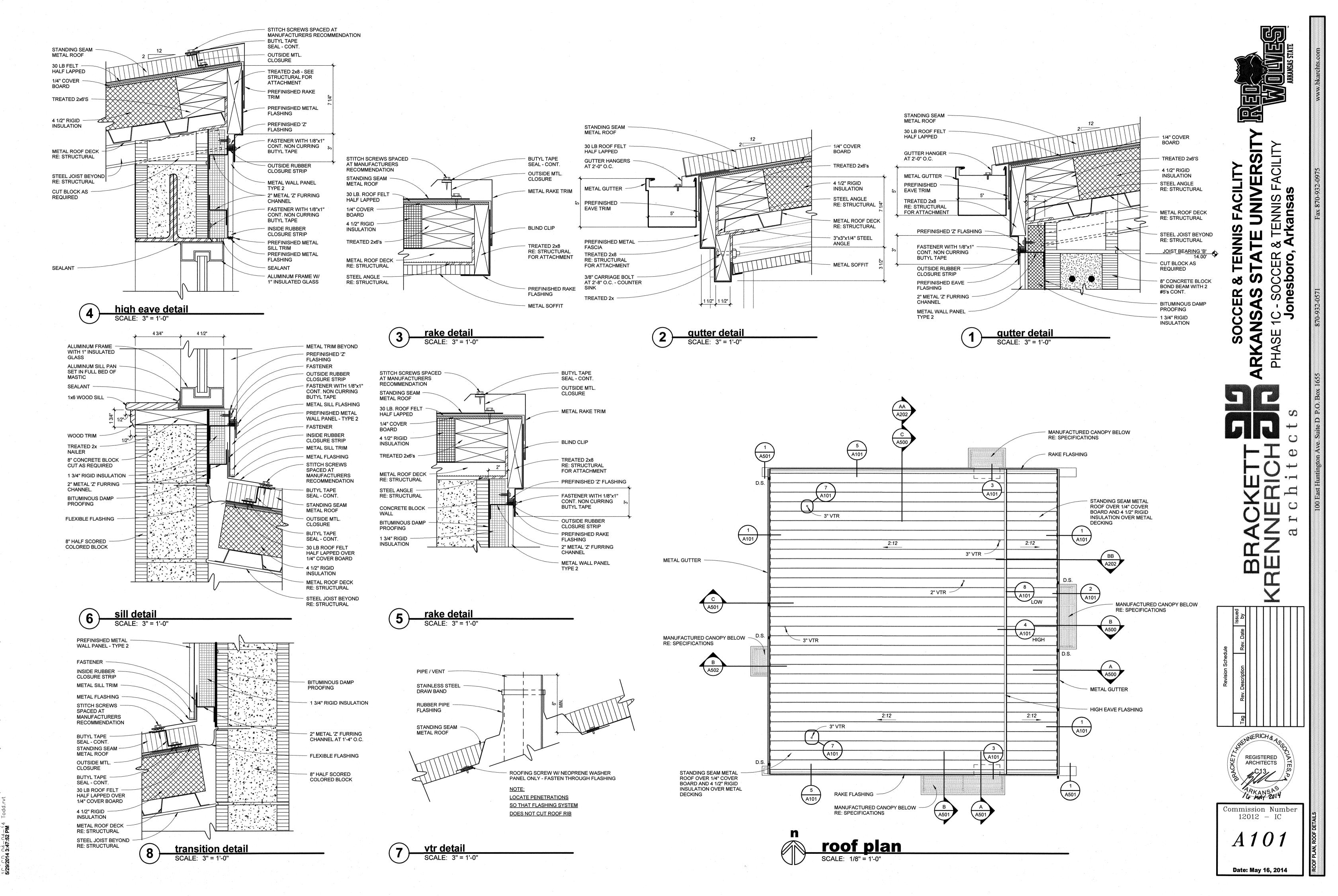
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Commission Number 12012 - IC



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Commission Number 12012 - IC A200

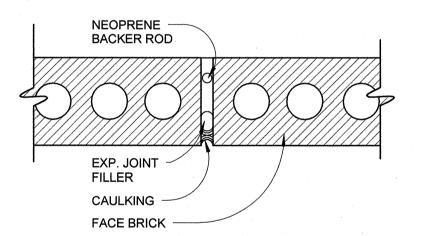
Date: May 16, 2014

1 3/4" RIGID INSULATION 5/16" MASONRY ANCHORS BITUMINOUS DAMP PROOFING 8" HALF SCORED COLORED CONCRETE BLOCK WALL

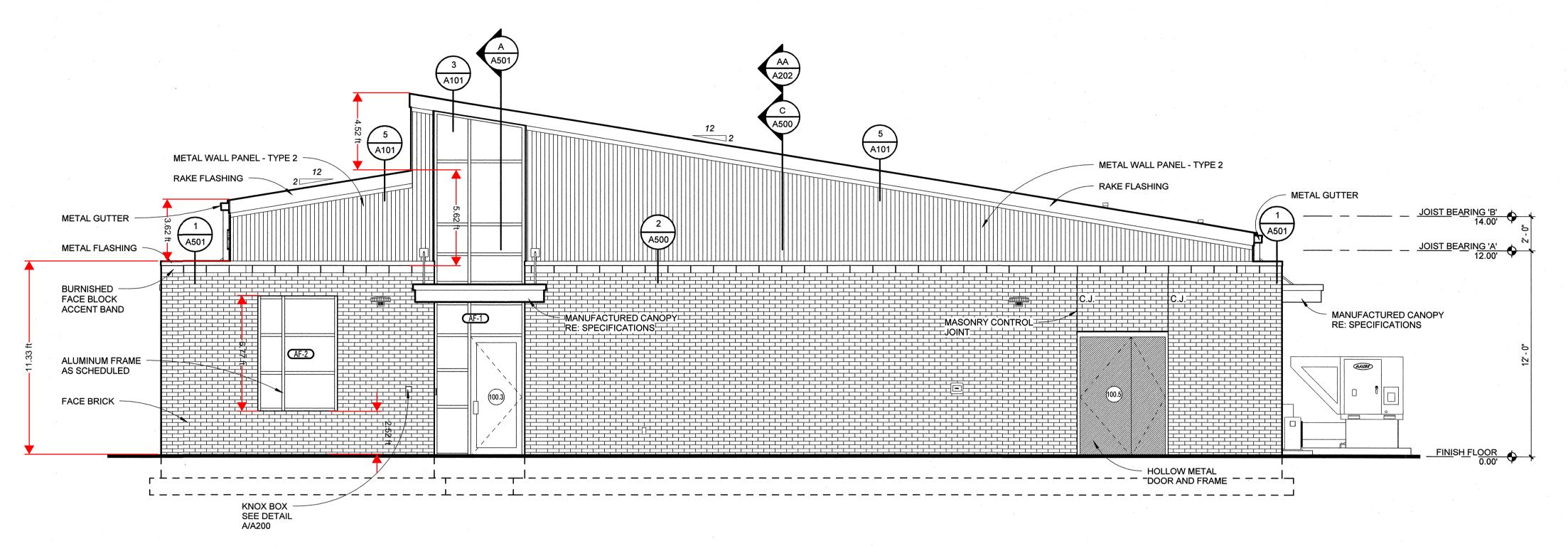
FACE BRICK

KNOX - BOX

knox-box detail1 SCALE: 3" = 1'-0"



brick expansion joint detail
SCALE: 3" = 1'-0"



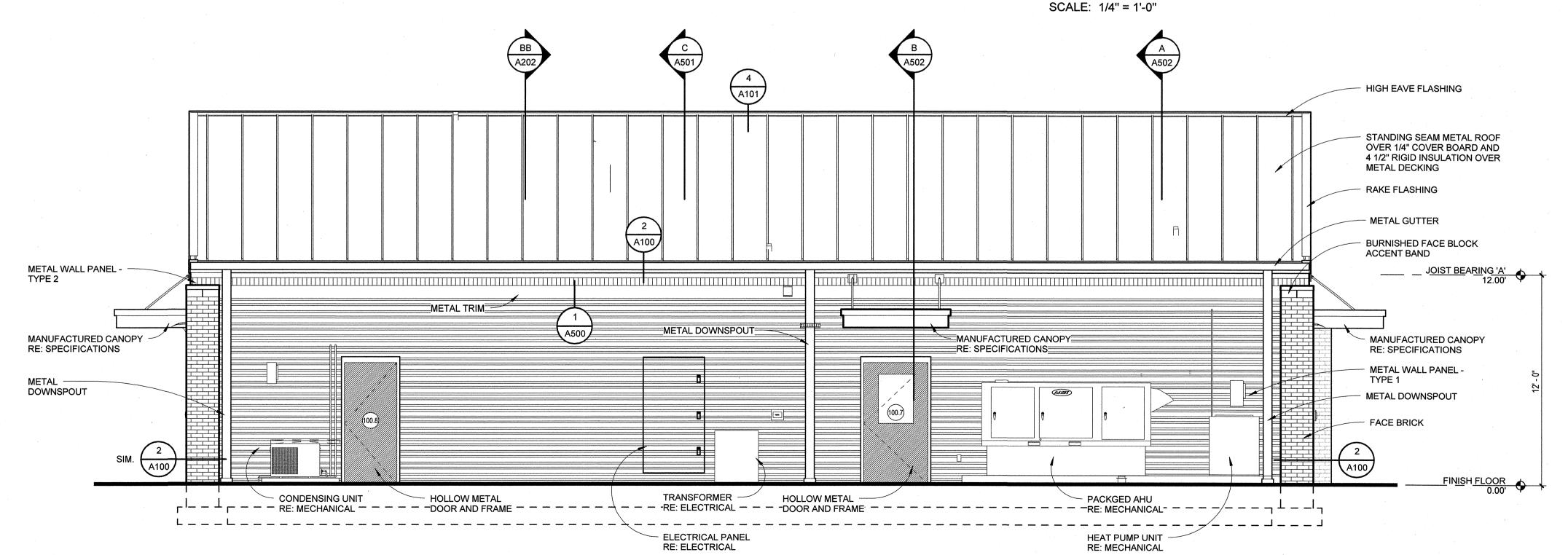
north elevation

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

ALUMINUM FRAME AS SCHEDULED HIGH EAVE FLASHING STANDING SEAM METAL ROOF OVER 1/4" COVER BOARD AND 4 1/2" RIGID INSULATION OVER 8 A101 (AF-11) A101 AF-13 AF-12 METAL DECKING RAKE FLASHING A101 METAL GUTTER METAL WALL -PANEL - TYPE 2 METAL FLASHING METAL TRIM DOWNSPOUT BURNISHED FACE **BLOCK ACCENT** - 14" TALL ALUMINUM LETTERS W/ BAKED ENAMEL FINISH GARAMOND FONT, SEE SPECS BAND A500 A500 __DOWNSPOUT_ MANUFACTURED CANOPY RE: SPECIFICATIONS MANUFACTURED CANOPY RE: SPECIFICATIONS FACED BRICK - FACED BRICK AF-5 AF-6 ALUMINUM FRAME AS SCHEDULED ALUMINUM FRAME AS SCHEDULED A100 METAL WALL PANEL - TYPE 1 METAL WALL PANEL - TYPE 1 - CONCRETE FOOTING

> east elevation SCALE: 1/4" = 1'-0"

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



west elevation

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

ARKANSAS STATE UNIVERSITY
PHASE 10 - SOCCER & TENNIS FACILITY

REPORT OF SATISFEETS

Tag Revision Schedule

Rev. Description Rev. Date by

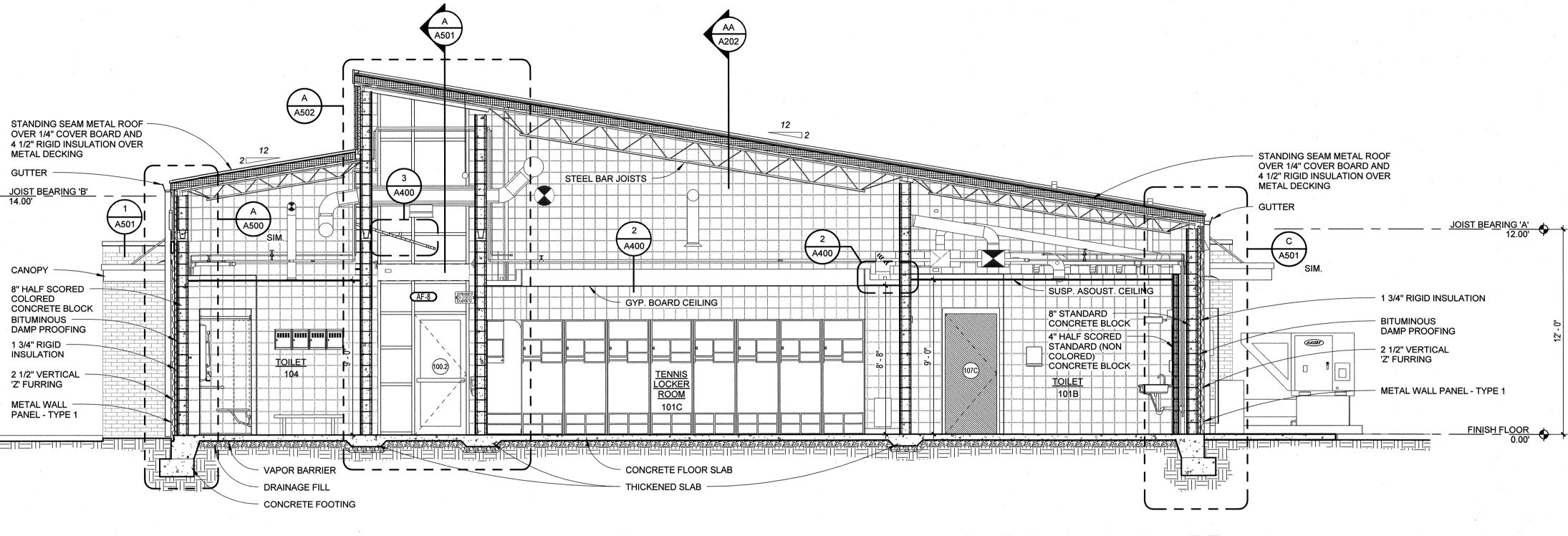


Commission Number 12012 – IC A201

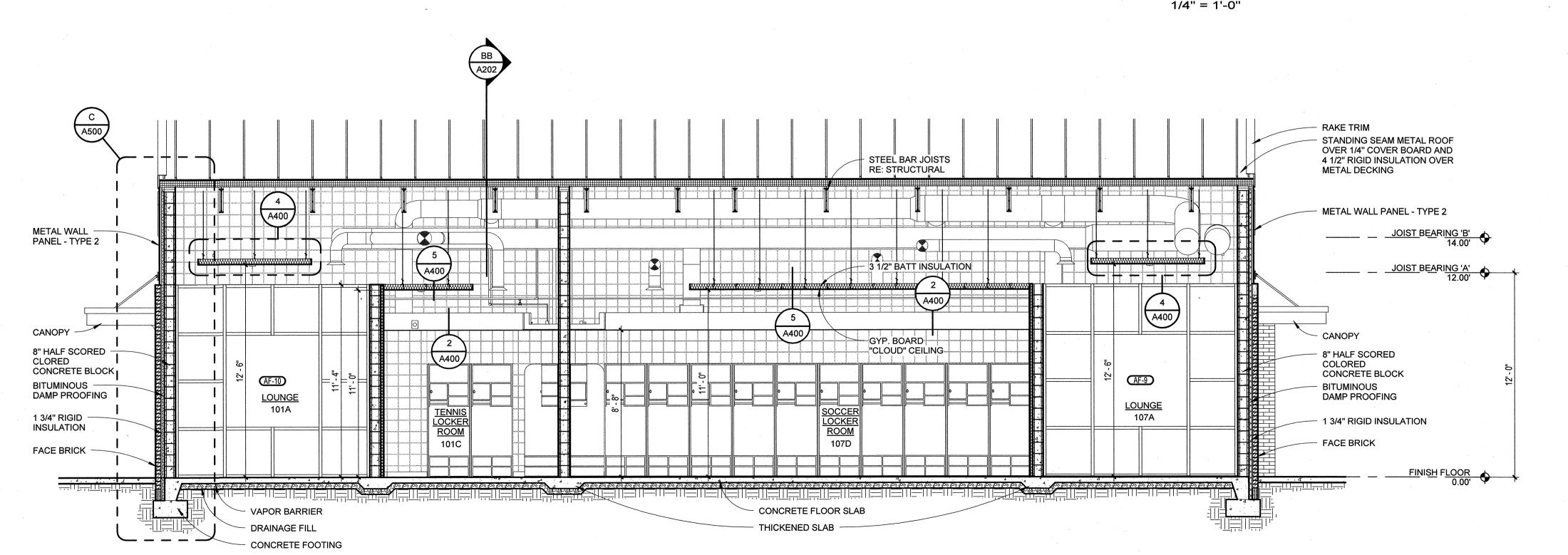


Commission Number 12012 – IC A202

Date: May 16, 2014

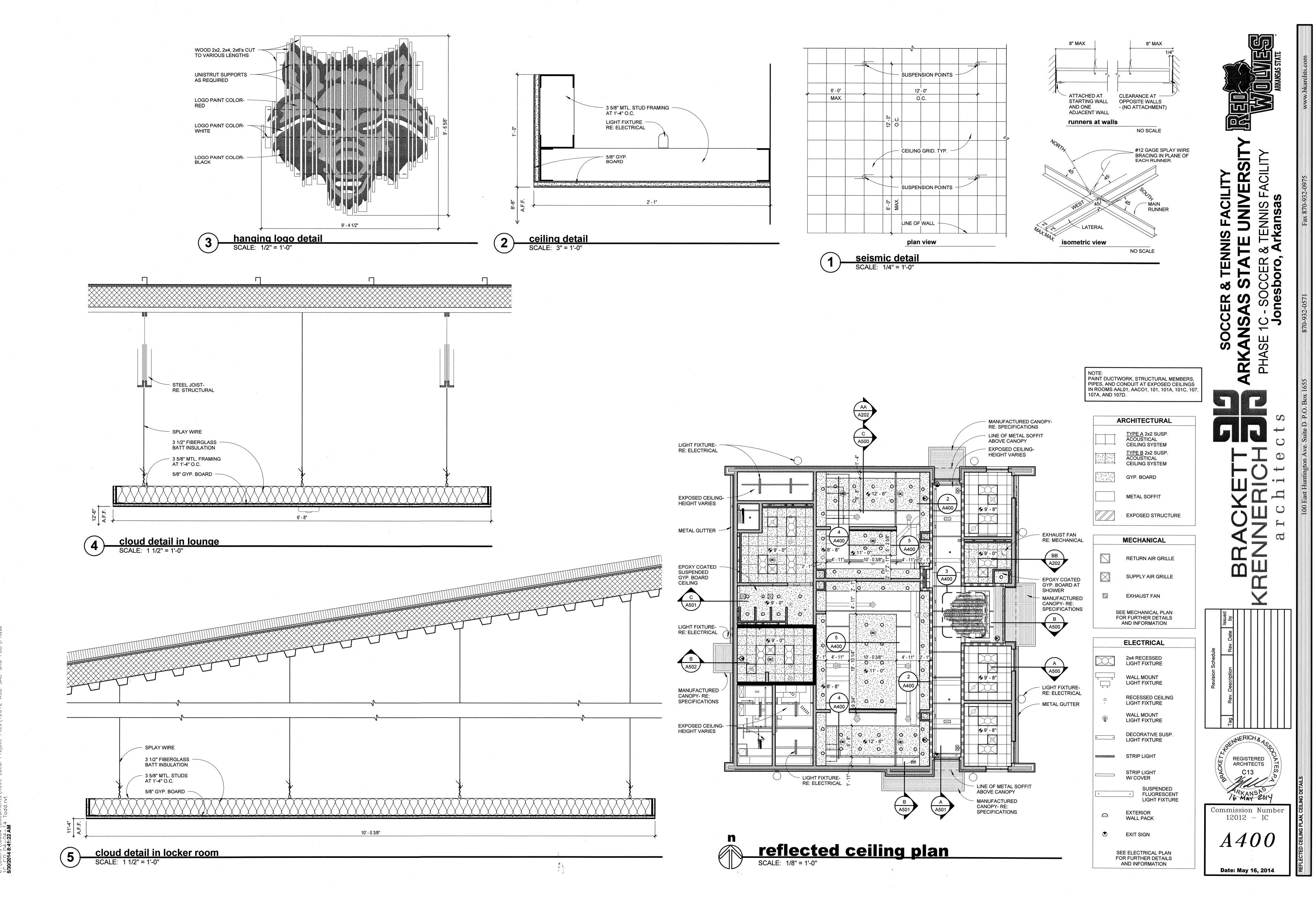


building section BB

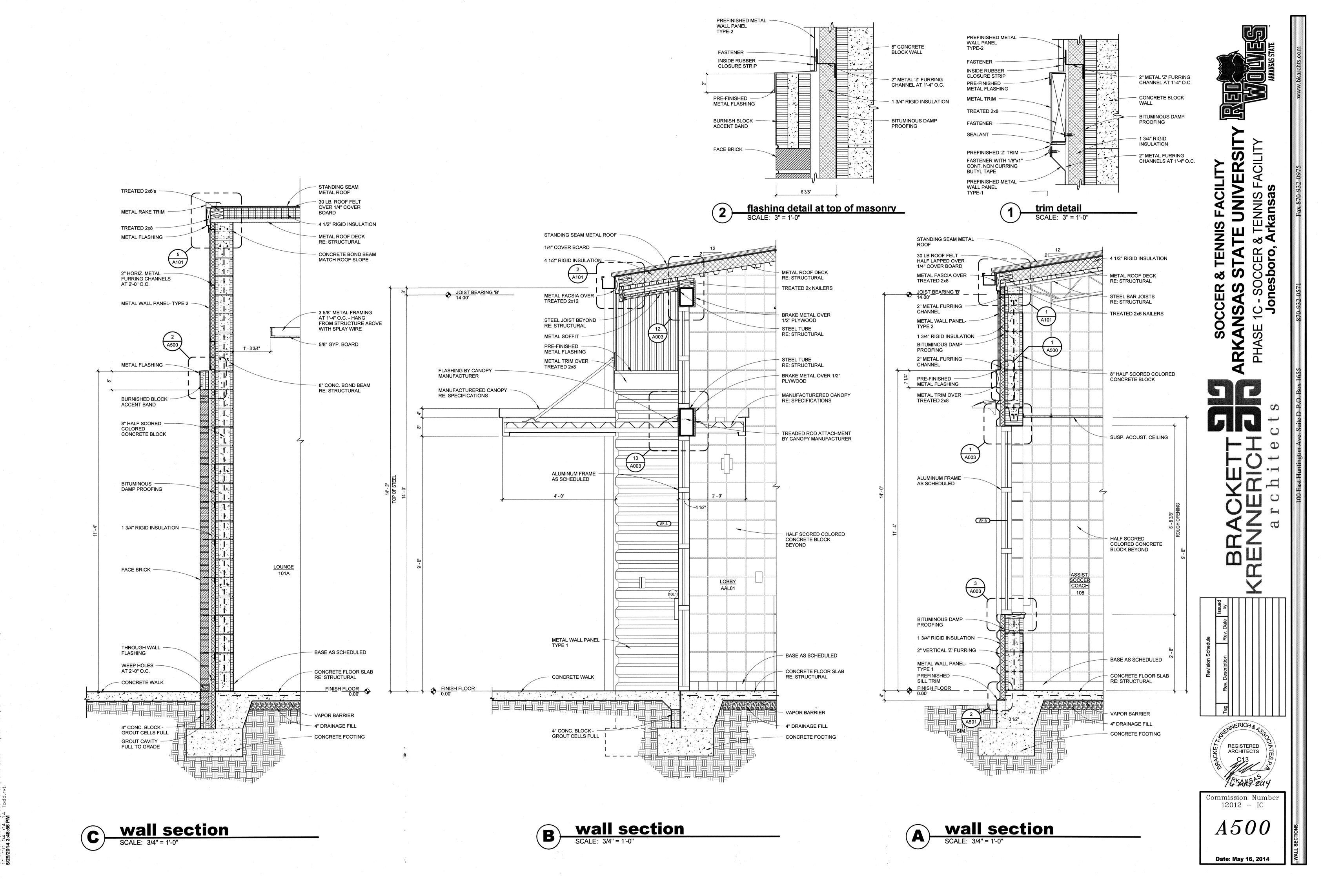


building section AA

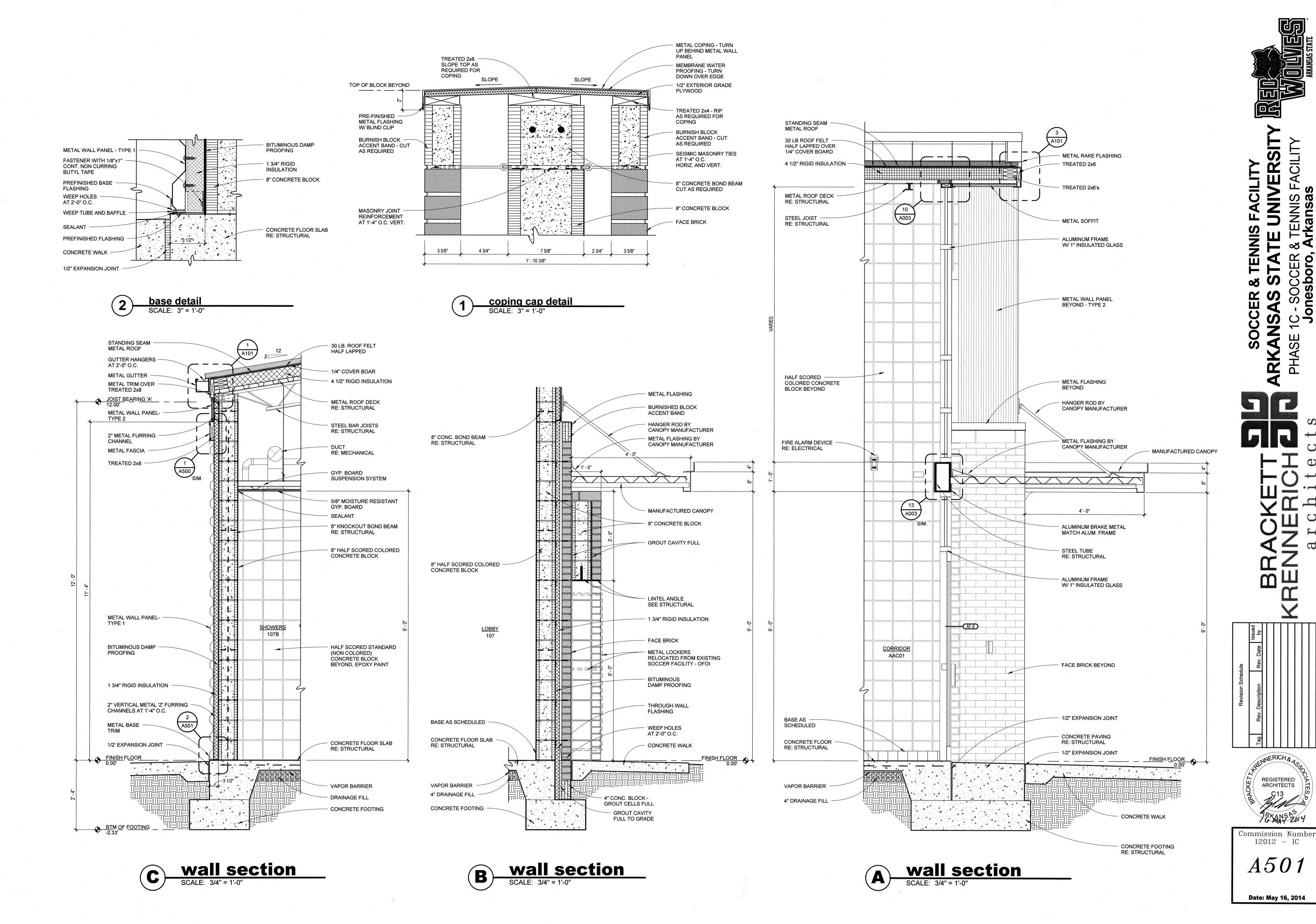
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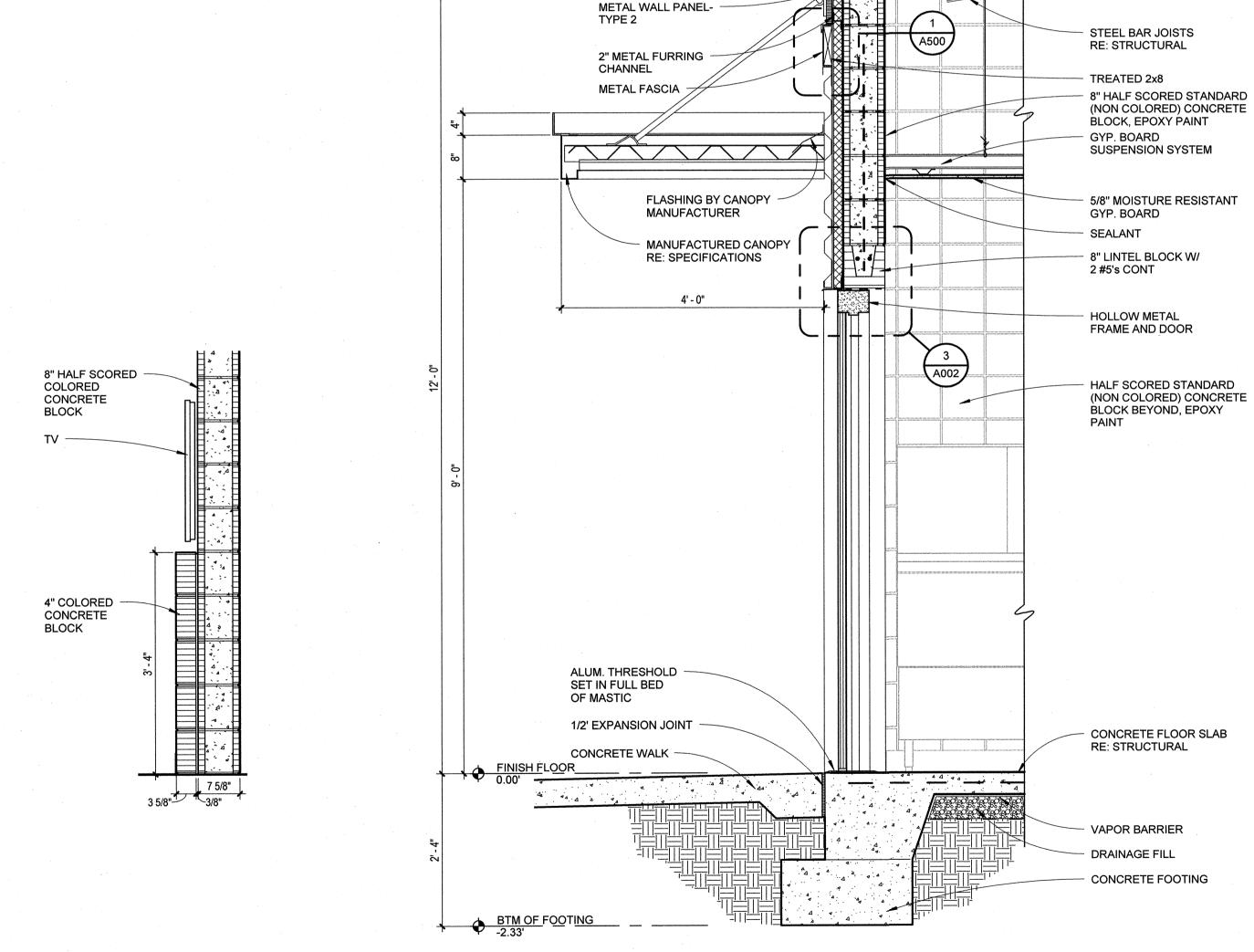


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STANDING SEAM

GUTTER HANGERS AT 2'-0" O.C.

METAL GUTTER

METAL TRIM OVER TREATED 2x8

METAL ROOF

30 LB. ROOF FELT

1/4" COVER BOAR

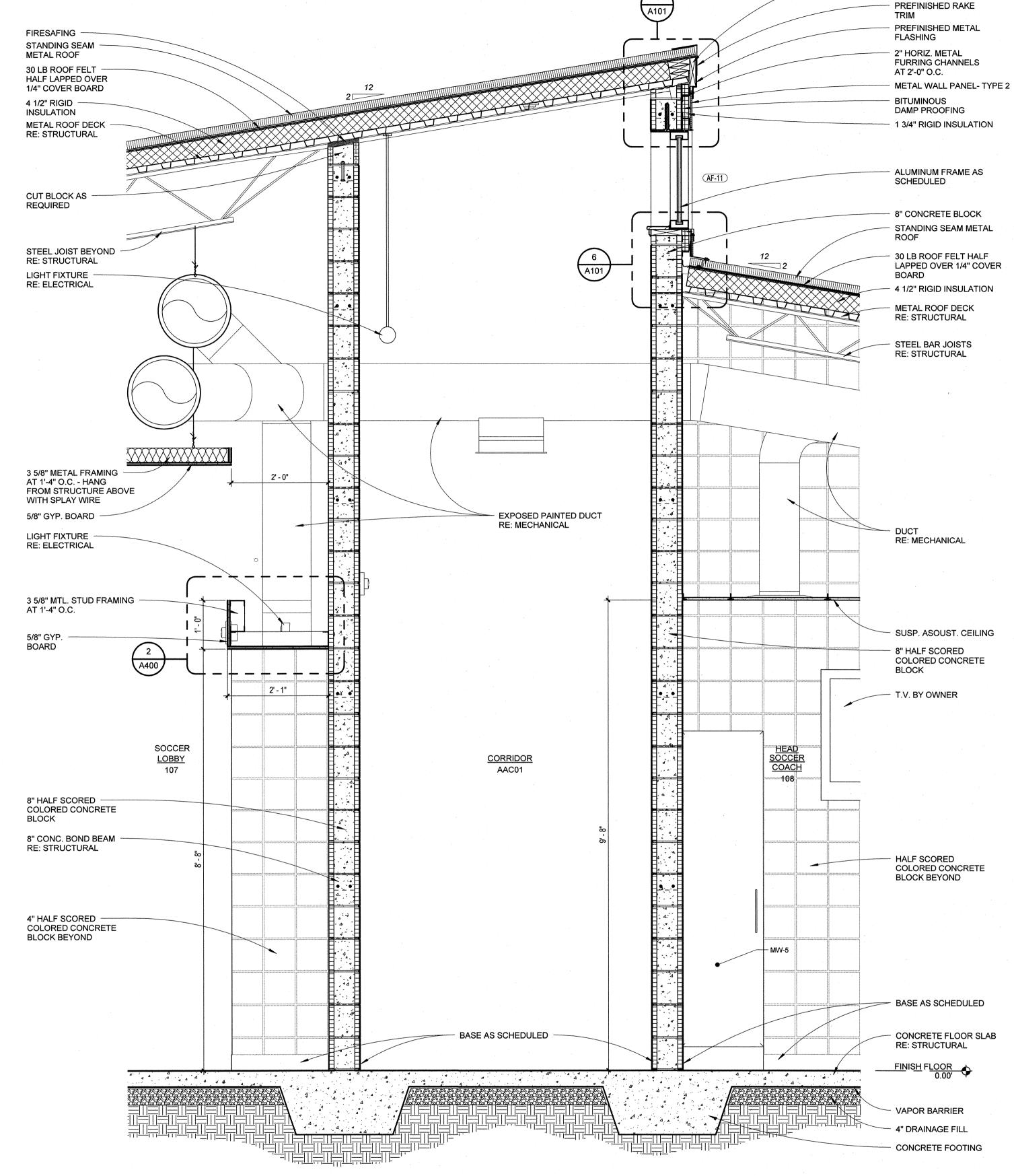
METAL ROOF DECK

RE: STRUCTURAL

4 1/2" RIGID INSULATION

HALF LAPPED

A101



C wall section

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

B wall section

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

wall section

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

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TREATED 2x8 - SEE STRUCTURAL FOR ATTACHMENT

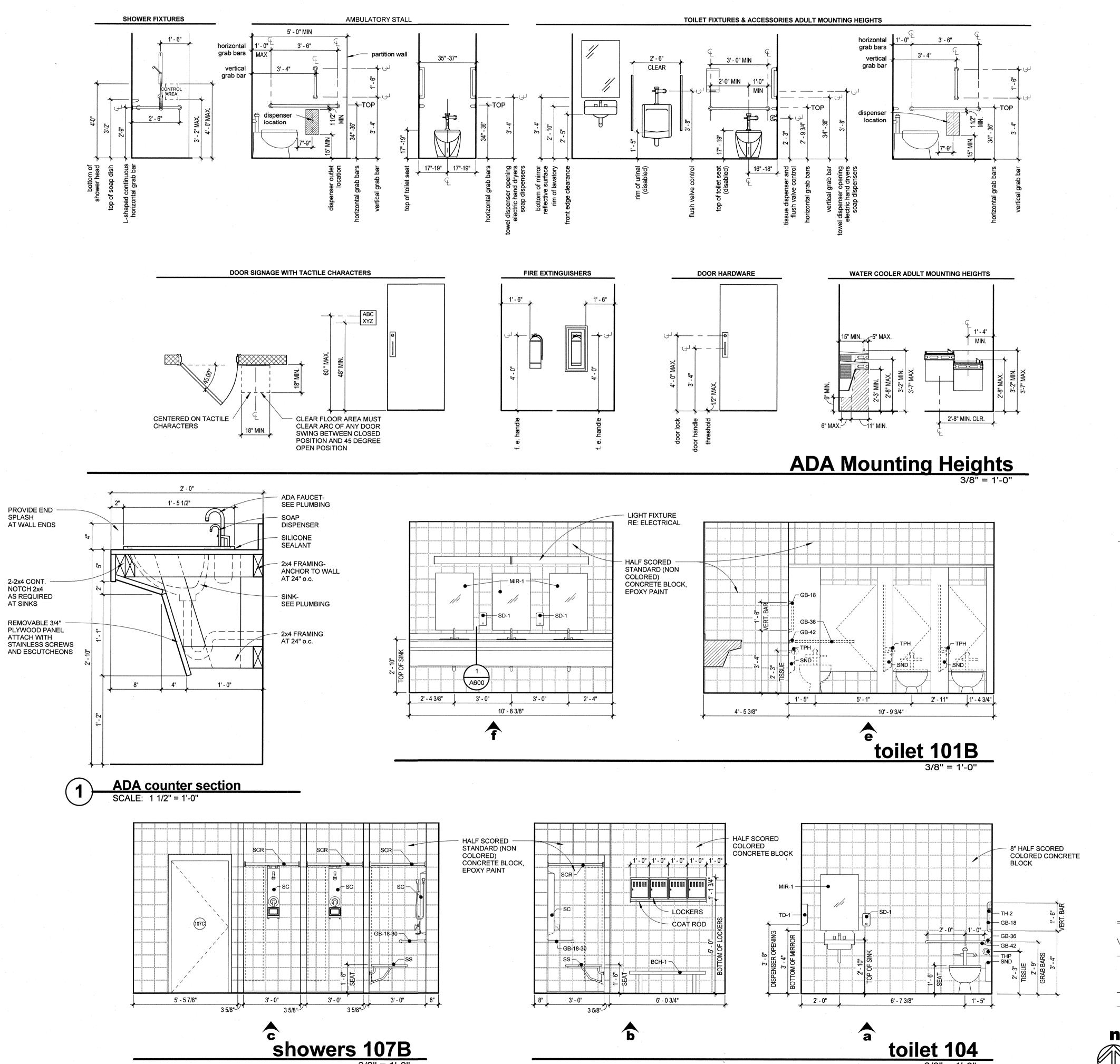
ENERGHE E

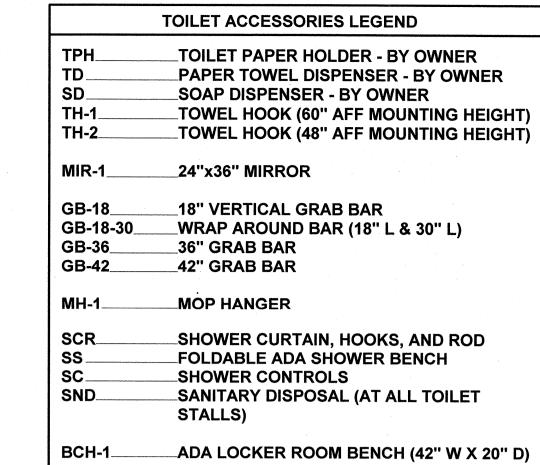
Revision Schedule

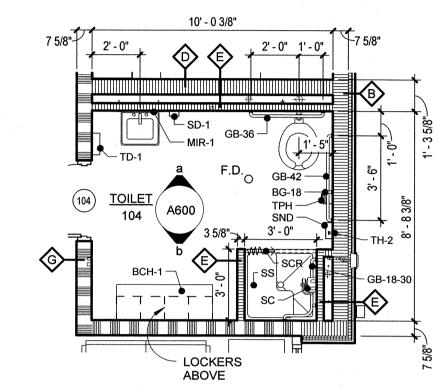
Tag Rev. Description Rev. Date by

REGISTERED ARCHITECTS
C13
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Commission Number

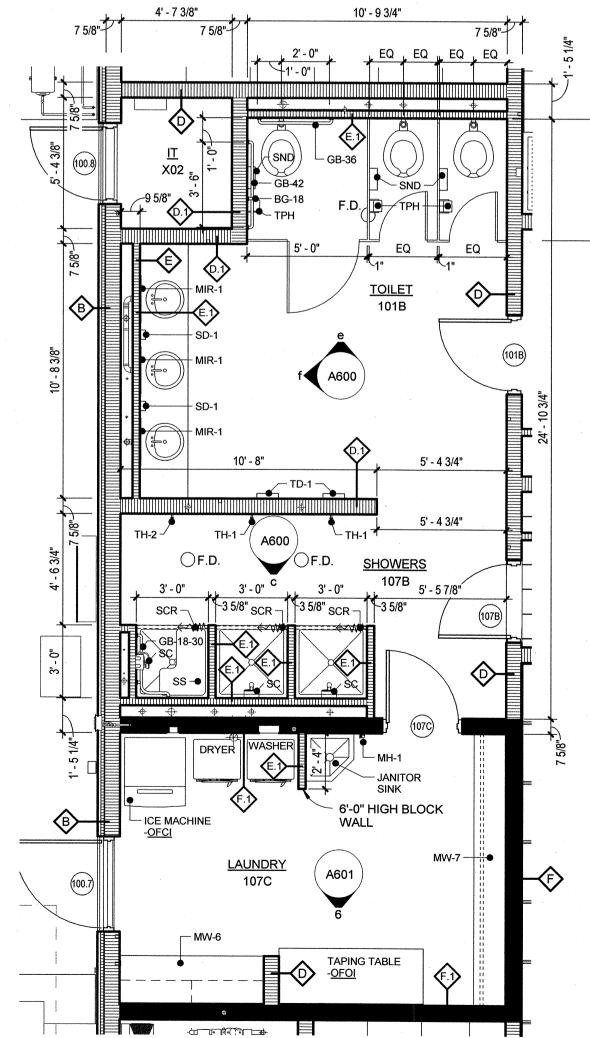
A502









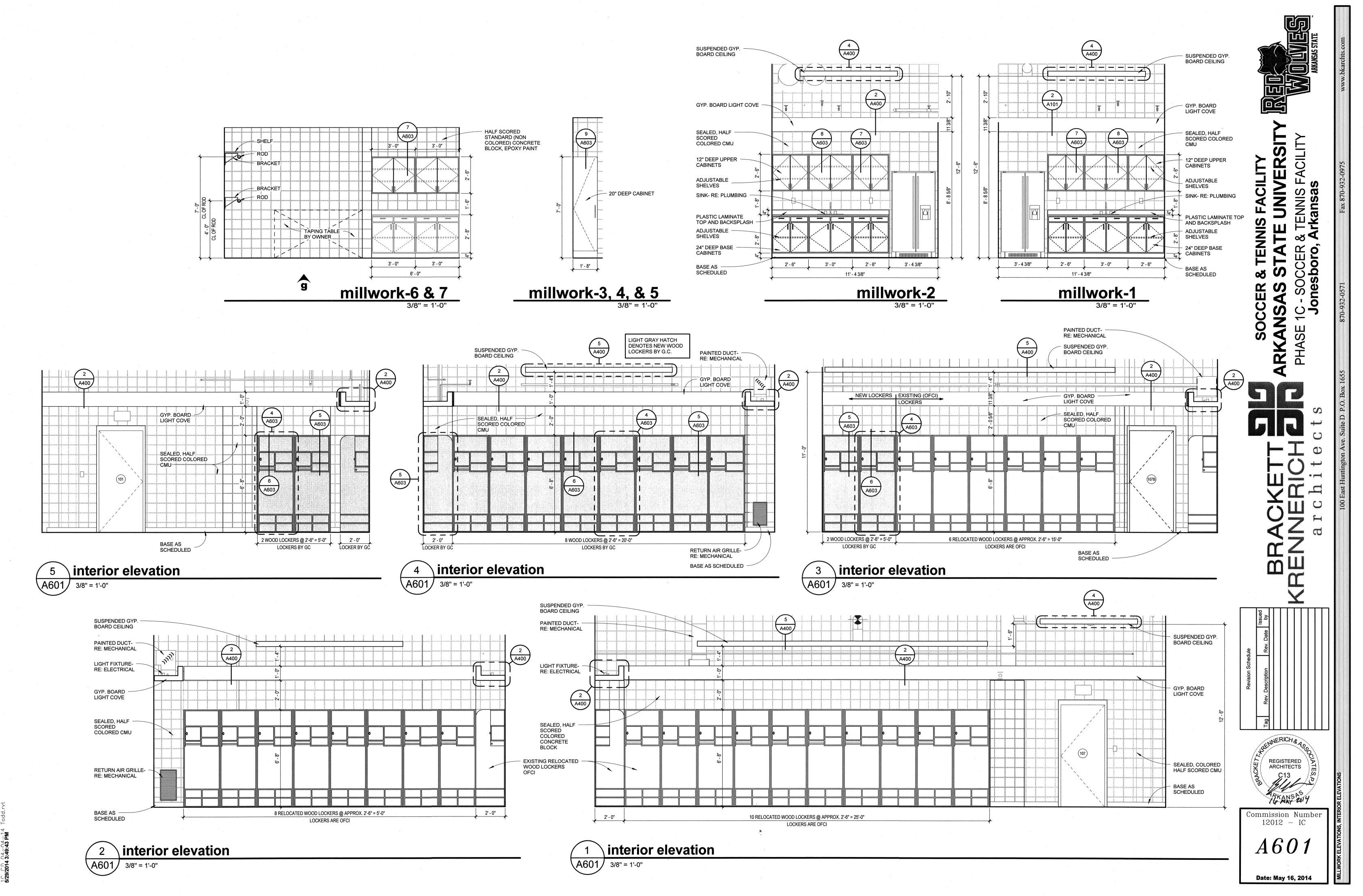


showers 107B/toilet 101B

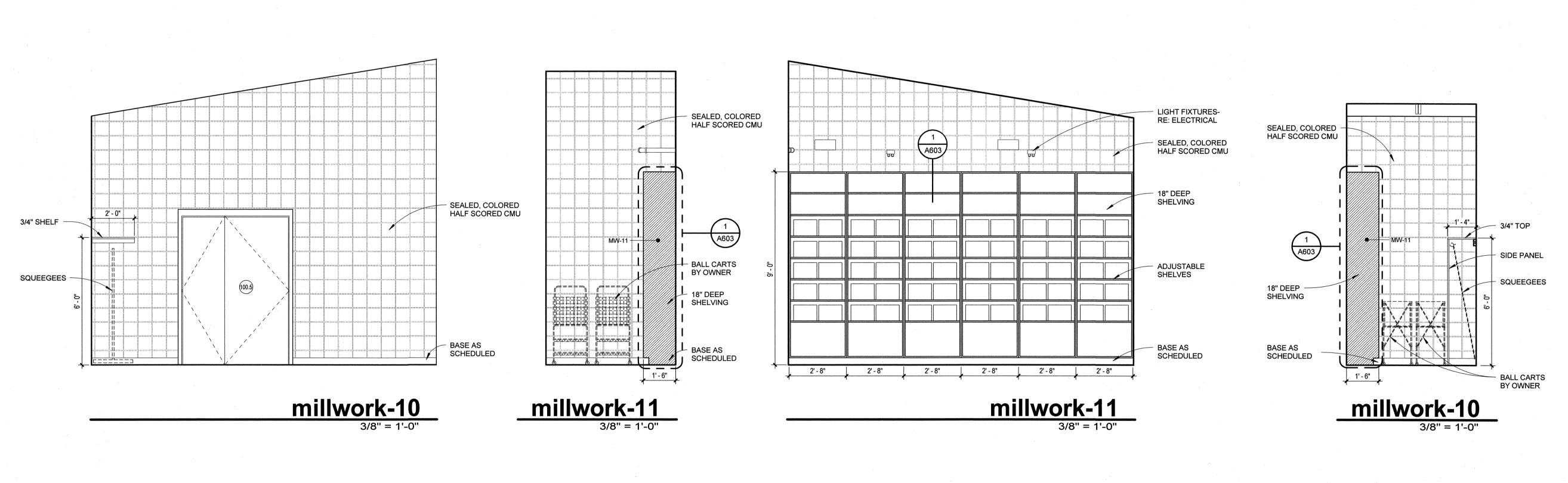


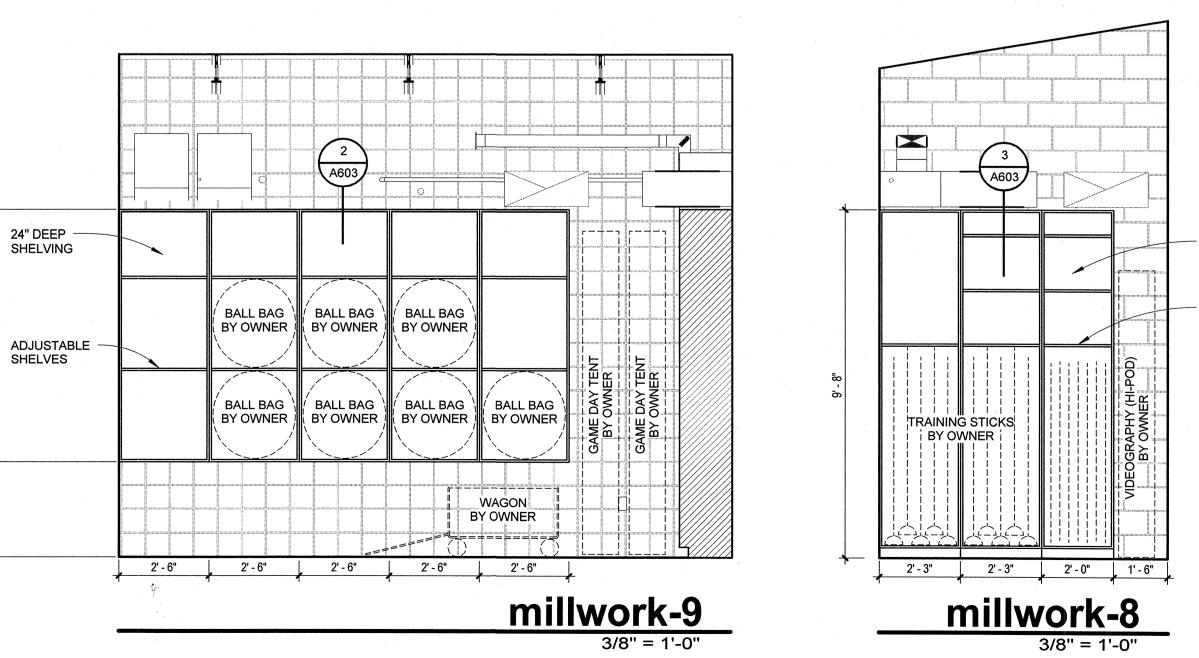


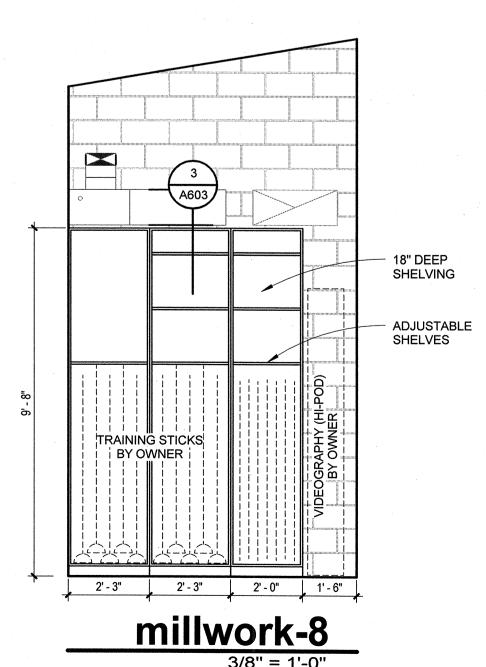
12012 - IC A600



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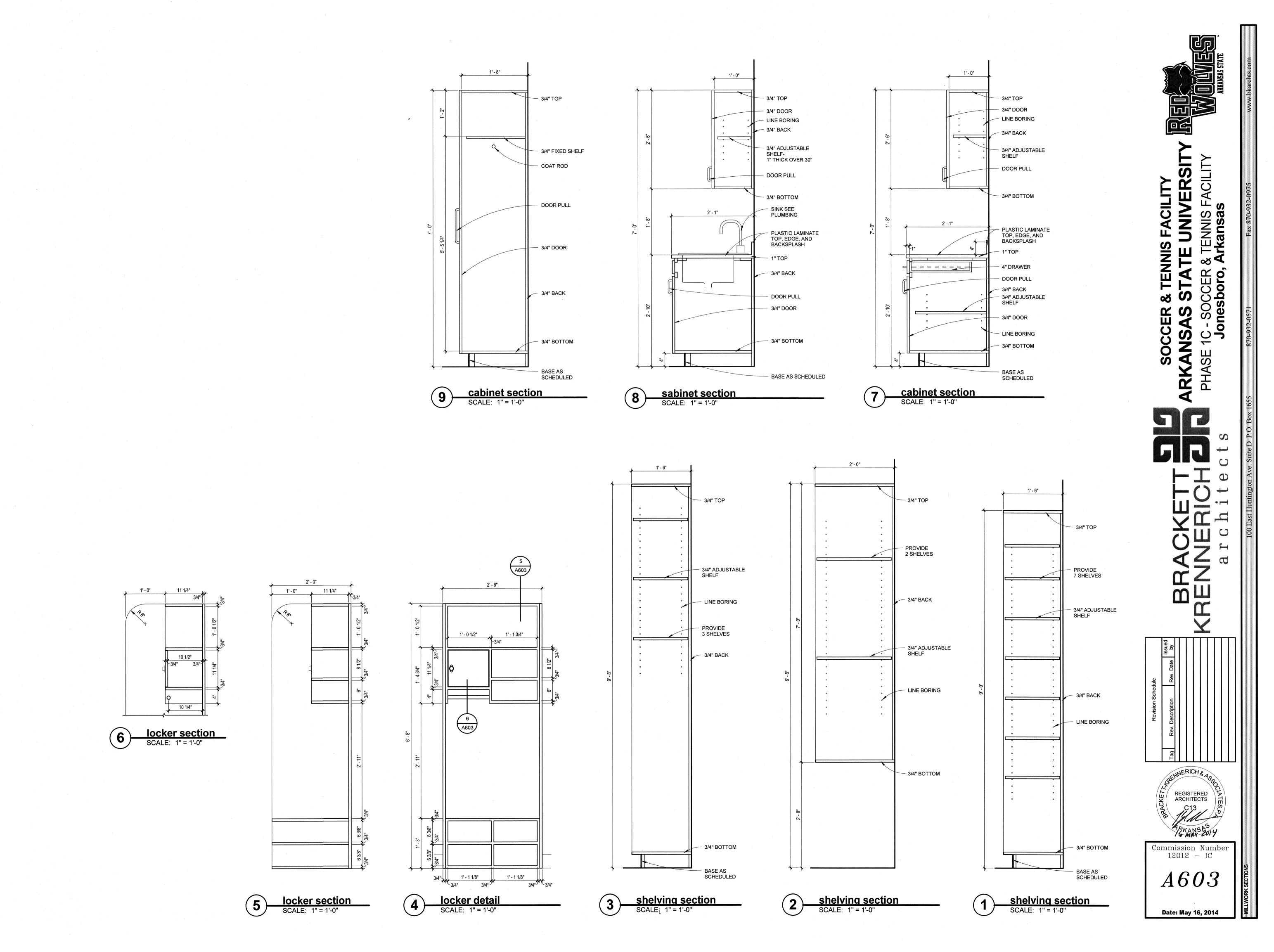






REGISTERED ARCHITECTS Commission Number 12012 – IC A602 Date: May 16, 2014

SOCCER &



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WELDED WIRE FABRIC

COLD FORMED Z SHAPE

STRUCTURAL NOTES

GENERAL NOTES

- 1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
- 2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO
- 3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING FLOOR ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY
- CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
- 5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF

4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.

- 6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN
- 7. ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION

CONCRETE NOTES

CONCRETE REINFORCEMENT

- CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW
- 2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- 3. PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:
- SLAB-ON-GRADE BARS (BOTTOM) BELOW GRADE (CAST AGAINST EARTH) BELOW GRADE (FORMED EDGE)
- 4. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.

3" CLEAR

- 5. IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.
- 6. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.
- 7. REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP
- 8. ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
- 9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.
- 10. ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".
- 11. WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT. (MINIMUM SIZE #4)

CAST-IN-PLACE CONCRETE

- 1. CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- 2. CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
- A. FOOTINGS, GRADE BEAMS & DRILLED PIERS 3000 PSI B. REINFORCED CMU & BOND BEAM FILL (SEE MASONRY NOTES) C. SLABS-ON-GRADE, WALLS, PILASTERS & PEDESTALS

- 4. PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-11.
- 5. MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 20% OF THE TOTAL CEMENTIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
- 6. MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS. WATER SHALL NOT BE ADDED ON SITE WITHOUT PRIOR APPROVAL. ANY APPROVED WATER AMOUNTS ADDED ON SITE MUST BE RECORDED & REPORTED BY THE TESTING AGENCY.

188 LBS PER CUBIC YARD

376 LBS PER CUBIC YARD

7. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (±1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.

8. FLOWABLE FILL SHALL MEET THE FOLLOWING REQUIREMENTS:

- A. MINIMUM 28 DAY COMPRESSIVE STRENGTH
- C. MINIMUM FLYASH CONTENT
- B. MINIMUM PORTLAND CEMENT CONTENT D. MAXIMUM PERMISSIBLE W/C RATIO

MASONRY NOTES

- 1. ALL CONCRETE MASONRY UNITS (CMU) SHALL COMPLY WITH ASTM C90, AND HAVE A MINIMUM NET COMPRESSIVE STRENGTH OF 1900 PSI. SIZES SHALL BE AS INDICATED ON THE CONTRACT DRAWINGS.
- 2. TYPE M MORTAR SHALL BE USED BELOW GRADE AND TYPE S MORTAR SHALL BE USED ABOVE GRADE. MIX MORTAR IN ACCORDANCE WITH ASTM C270. USE TYPE I PORTLAND CEMENT (TYPE III MAY BE USED FOR COLD WEATHER CONSTRUCTION) MEETING ASTM C1329, HYDRATED LIME MEETING ASTM C207 AND AGGREGATE MEETING ASTM C144
- 3. FILL ALL BOND BEAMS, ALL CMU CELLS WITH VERTICAL REINFORCING OR EXPANSION BOLTS, AND ALL CELLS BELOW GRADE WITH 3000 PSI GROUT MEETING THE FOLLOWING REQUIREMENTS:
- A. USE A MINIMUM OF 5.5 BAGS OF PORTLAND CEMENT PER CUBIC YARD.
- B. MAXIMUM WATER/CEMENT RATIO BY WEIGHT SHALL BE 0.54. C. WATER-REDUCING ADMIXTURE MEETING ASTM C494 SHALL BE USED TO PROVIDE SUFFICIENT FLOWABILITY TO READILY FILL CELLS WITH A REASONABLE AMOUNT OF RODDING. ADDITIONAL WATER WILL NOT BE ALLOWED AFTER INITIAL MIXING.
- AGGREGATE SHALL BE WELL GRADED WITH A MAXIMUM SIZE OF 3/8". E. ALTERNATE MIX DESIGNS WILL BE CONSIDERED IF SUBMITTED TO THE ARCHITECT FOR APPROVAL AFTER CONTRACT IS AWARDED. ALTERNATE DESIGNS MUST SHOW SUFFICIENT FLOWABILITY CHARACTERISTICS AND A 28-DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI.
- 5. MAXIMUM HEIGHT OF ALL GROUT FILL SHALL NOT EXCEED 4'-0" UNLESS CLEANOUT AND INSPECTION HOLE IS PROVIDED AT THE BOTTOM OF THE POUR.
- 6. ALL CMU SHALL BE REINFORCED WITH #4 VERTICAL AND DOWELS AT 2'-0" ON CENTER UNLESS SPECIFICALLY NOTED OTHERWISE OR NOTED AS UNREINFORCED MASONRY ON THE PLANS. WHERE SPLICES ARE REQUIRED, USE A LAP LENGTH OF AT LEAST 28 INCHES.
- 7. ALL VERTICAL CORNERS, VERTICAL END CELLS AND ONE CELL EACH SIDE OF ALL OPENINGS SHALL BE GROUTED AND REINFORCED WITH (1) #4 UNLESS NOTED OTHERWISE.
- 8. HORIZONTAL BOND BEAMS WITH (2) #5 CONTINUOUS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF ALL OPENINGS, AT STRUCTURALLY CONNECTED ROOF AND FLOOR LEVELS, AT THE TOP OF ALL PARAPETS OR WALLS AND AS SPECIFICALLY SHOWN ON THE CONTRACT DRAWINGS. BOND BEAMS ABOVE AND BELOW OPENINGS SHALL EXTEND AT LEAST 2'-0" BEYOND THE OPENING UNLESS NOTED
- 9. WHERE VERTICAL REINFORCING AND HORIZONTAL REINFORCING INTERSECT, ALL REINFORCING SHALL RUN CONTINUOUS.
- 10. HORIZONTAL REINFORCING SHALL BE CONTINUOUS AT CORNERS WITH 90-DEGREE BENDS OR CORNER BARS WITH EACH LEG EQUAL TO THE REQUIRED LAP LENGTH. (SEE TYPICAL CORNER BAR DETAIL)
- 11. ALL CMU SHALL HAVE 9 GAUGE LADDER TYPE JOINT REINFORCEMENT AT 16" ON CENTER VERTICALLY ABOVE GRADE AND 8" ON CENTER VERTICALLY BELOW GRADE UNLESS NOTED OTHERWISE.
- 12. BOND BEAMS WITH (2) #5 CONTINUOUS HORIZONTAL BARS SHALL PLACED AT A MAXIMUM SPACING OF 4'-0" ON CENTER VERTICALLY TO PROVIDE THE HORIZONTAL REINFORCING REQUIRED BY THE

METALS NOTES

STRUCTURAL STEEL

- STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR
- 2. ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:
- A. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy
 - B. ALL OTHER STRUCTURAL STEEL (CHANNELS, ANGLES, PLATES, ETC.) SHALL BE ASTM A36.
- 3. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 UNLESS NOTED OTHERWISE.
- 4. STRUCTURAL BOLTS SHALL BE ASTM A325-N, UNLESS OTHERWISE NOTED.
- 5. BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316L), OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FOOT (ASTM A153). USE STAINLESS BOLTS WITH STAINLESS STEEL CONNECTORS AND GALVANIZED BOLTS WITH GALVANIZED CONNECTORS IF ONLY ONE
- 6. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-RE 500-SD" SYSTEM (REF: ICC-ES ESR-2322), SIMPSON STRONG-TIE "SET-XP" SYSTEM (REF: ICC-ES ESR-2508), (OR APPROVED
- 7. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE FILLED CMU CELLS SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF FY=36ksi UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-HY150 MAX" SYSTEM (REF: ICC-ES ESR-3013), SIMPSON STRONG-TIE "SET" SYSTEM (REF: ICC-ES ESR-1772), (OR APPROVED EQUAL).
- 8. POST-INSTALLED ADHESIVE ANCHORS IN HOLLOW CMU OR CLAY MASONRY SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE AND SCREEN TUBES SHALL BE HILTI "HIT-HY20" SYSTEM (REF: ICC-ES ESR-2659), SIMPSON STRONG-TIE "SET" SYSTEM (REF: ICC-ES ESR-1772), (OR APPROVED EQUAL).
- 9. POST-INSTALLED EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI "KWIK BOLT TZ" (REF: ICC-ES ESR-1917), SIMPSON STRONG-TIE "STRONG BOLT 2" (REF: ICC-ES ESR-3037), (OR APPROVED EQUAL) CARBON STEEL ANCHORS UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- 10. POST-INSTALLED SCREW ANCHORS SHALL BE HILTI "KWIK HUS EZ" (REF: ICC-ES ESR-3027), SIMPSON STRONG-TIE "TITEN HD" (REF: ICC-ES ESR-2713), (OR APPROVED EQUAL), UNLESS NOTED
- 11. POST-INSTALLED ANCHORS IN CONCRETE IN BUILDINGS UNDER SEISMIC CATEGORY C & D SHALL BE HILTI "HDA" UNDERCUT ANCHORS (ICC-ES ESR-1546), SIMPSON STRONG TIE "TORQ-CUT" UNDERCUT ANCHORS (ICC-ES ESR-2705), (OR APPROVED EQUAL).
- 12. ALL WELDS SHALL BE E70XX, MINIMUM AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, CERTIFIED WITHIN THE PREVIOUS TWELVE (12) MONTHS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE BUILDING AND COMPONENTS DUE TO FIRE HAZARDS FROM
- 13. DO NOT PRIME PAINT STEEL THAT RECEIVES SPRAYED FIREPROOFING.
- 14. ALL STEEL LINTELS AND SHELF ANGLES SHALL BE COATED WITH A ZINC RICH PRIMER.
- 15. ALL STRUCTURAL STEEL EXPOSED TO WEATHER (SUCH AS MECHANICAL FRAMES) SHALL BE HOT

- METAL JOIST SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- 2. METAL JOISTS SHALL BE DESIGNED, MANUFACTURED, AND BRIDGED TO CONFORM TO THE "STEEL JOIST INSTITUTE" STANDARD SPECIFICATION. PROVIDE RECOMMENDED CAMBER FOR THE JOIST SPAI DO NOT WELD EXTENDED BOTTOM CHORDS OF JOISTS UNTIL ALL DEAD LOAD IS IN PLACE. PROVIDE SLOPED AND SKEWED SEATS ON ALL JOISTS AS REQUIRED. PROVIDE UPLIFT BRIDGING AND DESIGN JOISTS FOR A NET UPLIFT OF 10 PSF. ALL BRIDGING SHALL BE DESIGNED AND SUPPLIED BY THE
- 3. DO NOT PRIME PAINT METAL JOISTS THAT WILL RECEIVE SPRAYED FIREPROOFING.

DIPPED GALVANIZED AFTER FABRICATION.

- METAL DECKING SUPPLIER SHALL SUBMIT SHOP DRAWINGS PREPARED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- 2. ROOF DECKING SHALL BE 1.5B20 PAINTED ROOF DECK ATTACHED TO THE STRUCTURE WITH 5/8" DIAMETER PUDDLE WELDS IN A 36/4 PATTERN AND (2) #10 TEK SCREW SIDELAP FASTENERS
- 3. POWDER ACTUATED OR PNEUMATIC FASTENERS MAY NOT BE SUBSTITUTED FOR PUDDLE WELDS. WOOD NOTES

LUMBER

1. ALL WOOD MEMBERS THAT ARE IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH WATER BORNE TREATMENT TO A NET RETENTION OF 0.3 POUNDS PER CUBIC FOOT. (SEE STRUCTURAL STEEL FRAMING NOTE #5 FOR BOLTS IN CONTACT WITH PRESERVATIVE TREATED

EARTHWORK & FOUNDATION NOTES

EXCAVATION & FILL

- 1. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S
- 2. SELECT FILL BENEATH THE BUILDING SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557). THE IN-PLACE DENSITY AND MOISTURE CONTENT SHALL BE ESTABLISHED AND APPROVED FOR EACH LIFT PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.

- 1. BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR HIS
- 2. ALL SPREAD FOOTING EXCAVATIONS SHALL BE FOUNDED IN PROPERLY COMPACTED SELECT FILL OR IN THE NATURAL SOILS WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2000 PSF.
- 3. CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE

OF ARKANSAS TO PROVIDE GEOTECHNICAL ENGINEERING SERVICES AS REQUIRED.

4. MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 2'-0" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS FOR FROST PROTECTION.

CAST-IN-PLACE CONCRETE MIX DESIGN TABLE MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE

	NON-AIR	ENTRAINED	AIR EN		
28 DAY MIN. COMPRESSIVE STRENGTH	MIN. CEMENT CONTENT (LBS/YARD3)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YARD3)	MAXIMUM PERMISSIBLE W/C RATIO	MAX. SLUMP W/ WRA (± 1")
3000	470	0.53		,	4''
4000	564	0.44	611	0.40	6''

DESIGN LOADS:

SEISMIC DESIGN CATEGORY

DEAD LOADS: WEIGHT OF THE STRUCTURE

ROOF LIVE LOAD:

Pg:

WIND SPEED FOR RISK CATEGORY II & EXPOSURE C Vasd:

BUILDING RISK CATEGORY

SEISMIC ZONE PER A.C.A. 12-80-101 ET. SEQ. ZONE:

WIND EXPOSURE CATEGORY INTERNAL PRESSURE COEFFICIENT COMP. & CLADDING WIND PRESSURE Pnet30: SEE ASCE 7-10, TABLE 30.7-2

BASIC SEISMIC-FORCE-RESISTING SYSTEM A. BEARING WALL SYSTEM (PER ASCE 7-10, TABLE 12.2-1) 7. SPECIAL REINFORCED MASONRY SHEAR

EQUIVALENT LATERAL FORCE METHOD ANALYSIS PROCEDURE (PER ASCE 7-10, TAB 12.6-1 & SECT. 12.8)

2012 ARKANSAS FIRE PREVENTION CODE A.C.A. 12-80-101 ET. SEQ. (ARK ST LAW) THE FOUNDATIONS AND STRUCTURAL FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES

STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ARKANSAS FIRE PREVENTION

SPECIAL INSPECTION NOTES

CODE AND A.C.A. 12-80-101 ET. SEQ.

- SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE
- 2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN
- 4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE
- 5. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.

SOIL TESTING AND INSPECTIONS

- 1. A QUALIFIED TESTING LABORATORY SHALL TEST ALL CONTROLLED STRUCTURAL FILL. A MINIMUM OF TWO SOIL COMPACTION TESTS SHALL BE MADE FOR EACH LIFT.
- 2. AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS, THE INDEPENDENT TESTING AGENCY SHALL INSPECT AND TEST THE BEARING SOIL TO VERIFY THAT IT MEETS THE REQUIRED

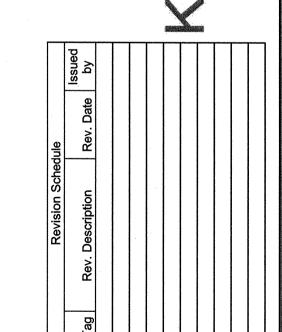
CONCRETE CONSTRUCTION INSPECTIONS

- INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND
- 2. VERIFY SIZE, TYPE, EMBEDMENT DEPTH, PROJECTION AND QUANTITY OF ANCHOR BOLTS.
- 3. CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. (EACH SAMPLE SHALL CONSIST OF 4 CYLINDERS MADE, HANDLED AND TESTED PER THE SPECIFICATIONS.)
- EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED.
- 5. THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING
- 6. PROVIDE CONTINUOUS INSPECTION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS TO VERIFY THE INSTALLATION IS IN ACCORDANCE WITH STRUCTURAL DRAWINGS, EVALUATION SERVICE REPORT. AND MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION, EDGE DISTANCES, SPACING, DRILL BIT SIZE, HOLE DEPTH, HOLE CLEANING PROCEDURES, ANCHOR MATERIAL, EMBEDMENT, AND INSTALLATION PROCEDURES INCLUDING CHECKING EXPIRATION DATE AND PROPER MIXING OF ADHESIVE.

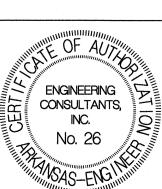
MASONRY CONSTRUCTION INSPECTIONS

FECHNIQUE SHALL BE REVIEWED.

ALL MASONRY CONSTRUCTION FOR LOAD BEARING WALLS SHALL BE INSPECTED AND EVALUATED IN ACCORDANCE WITH THE REQUIREMENTS FOR LEVEL 1 SPECIAL INSPECTION AS OUTLINED IN TABLE



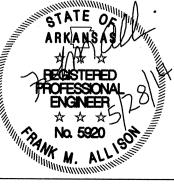
SAMMANIAN



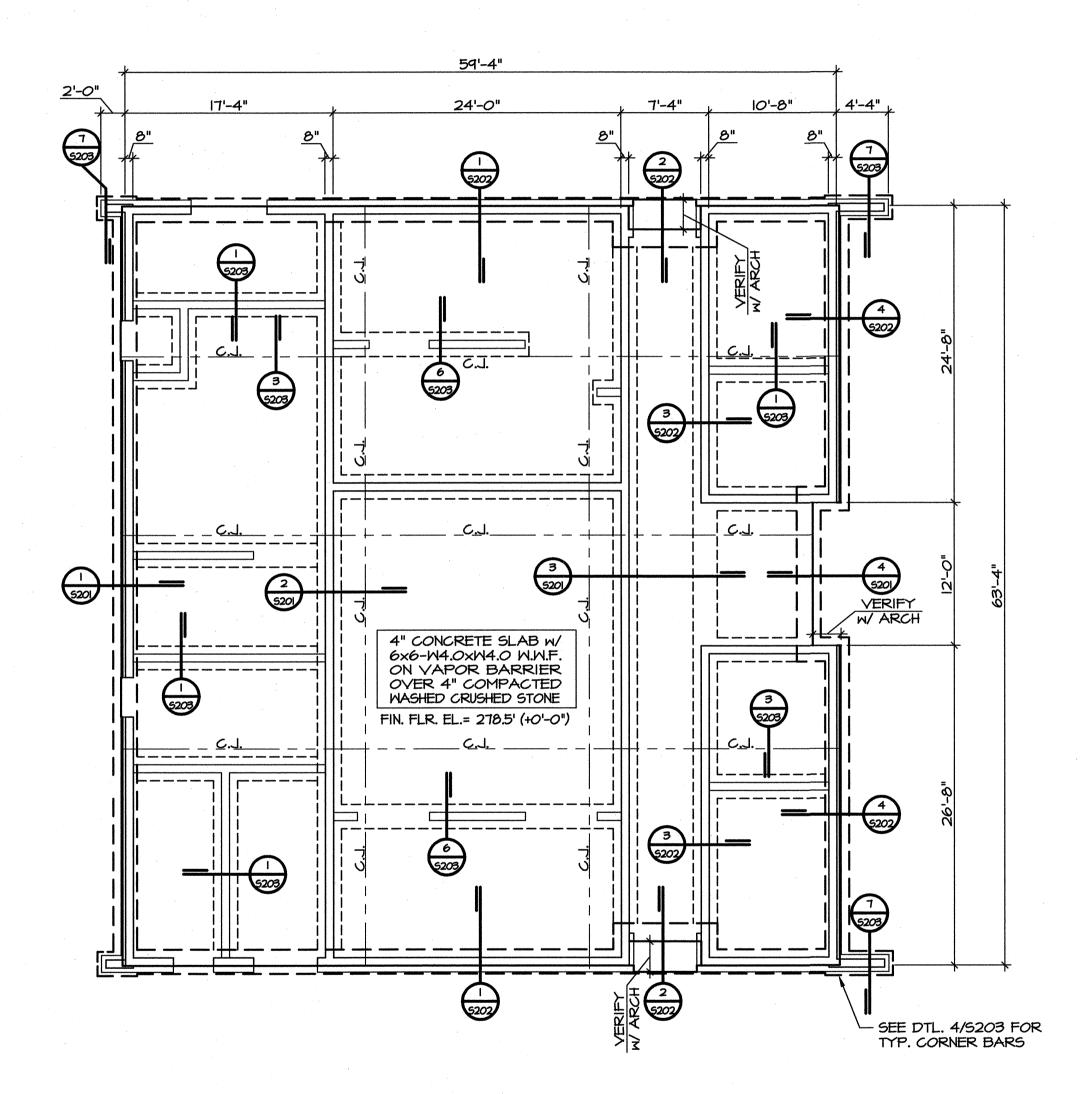
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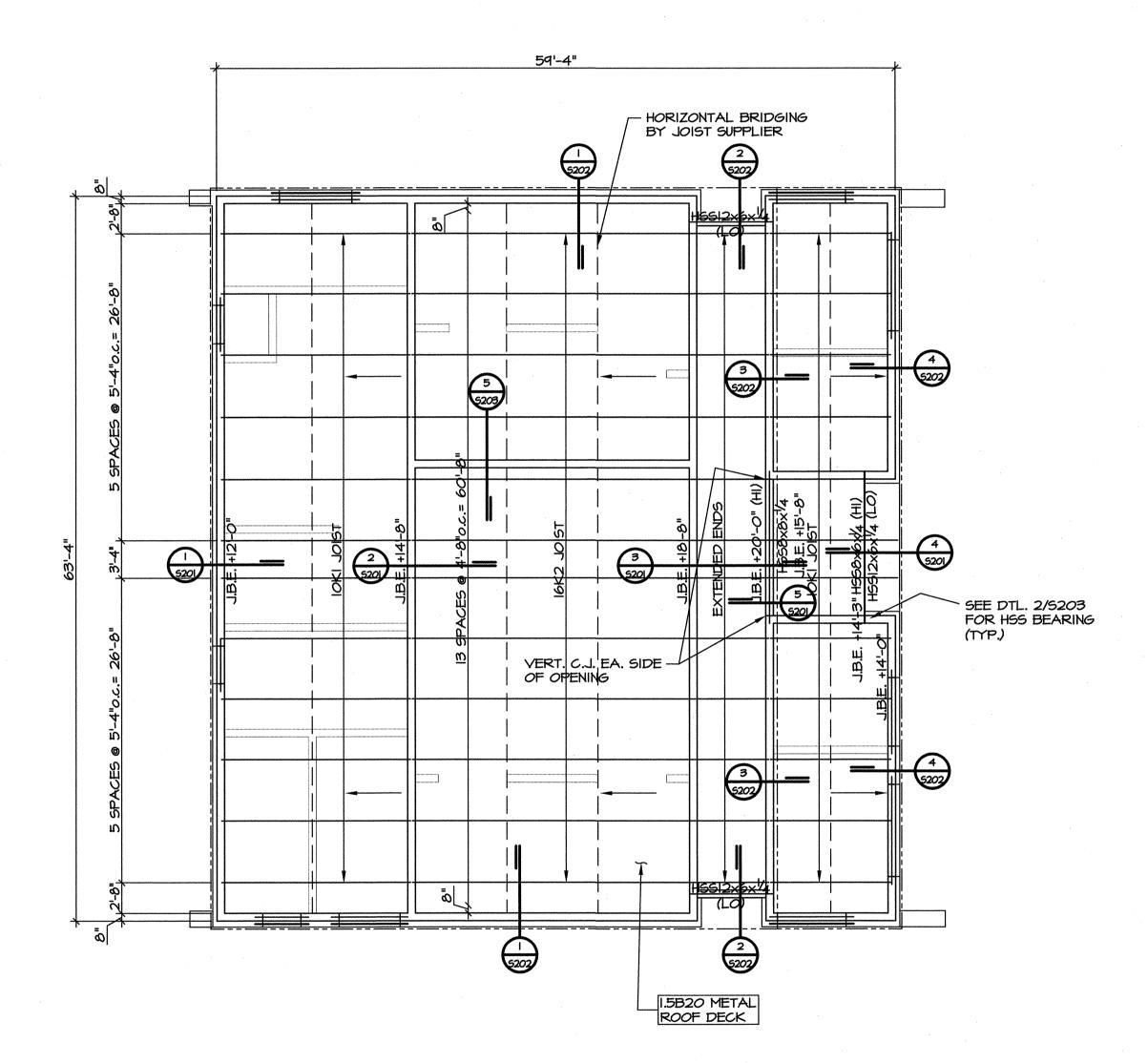
ECI Job No: 14-133



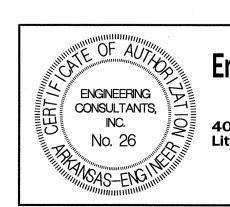
Commission Number



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

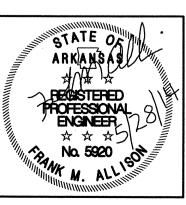


ROOF FRAMING PLAN 1/8"=1'-0"

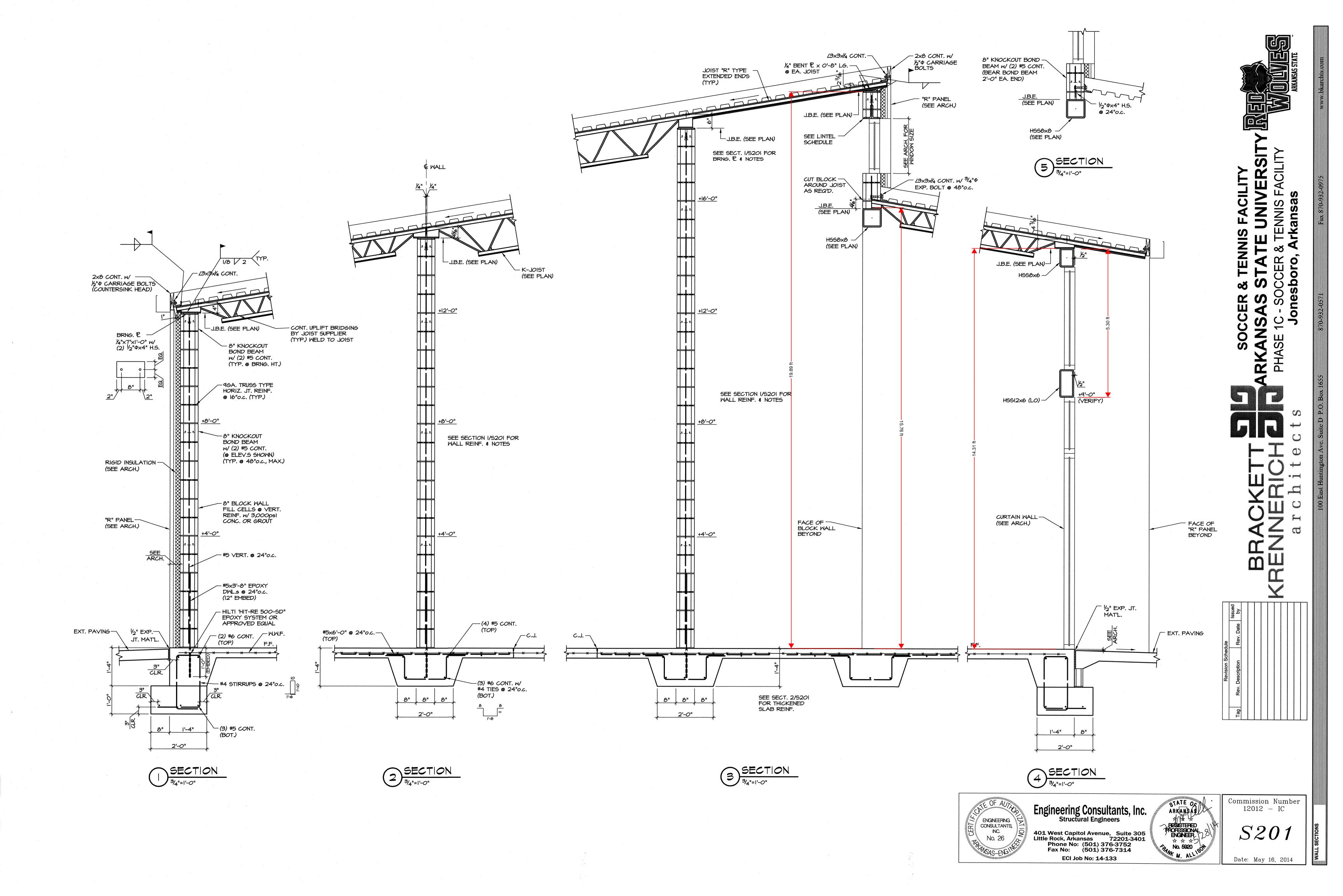


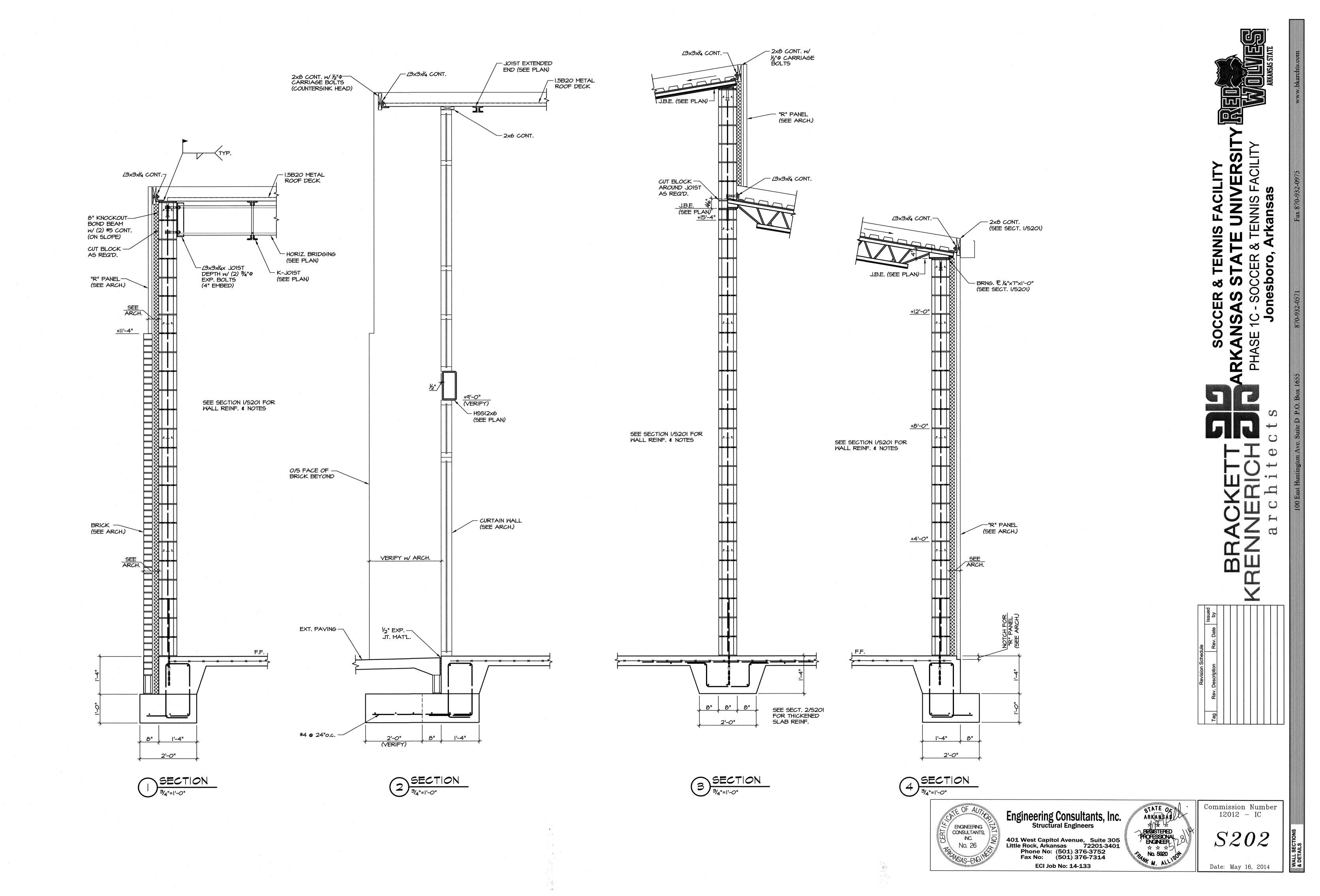
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/3x3x/4x JOIST — DEPTH w/ (2) 3/4" Ф EXP. BOLTS

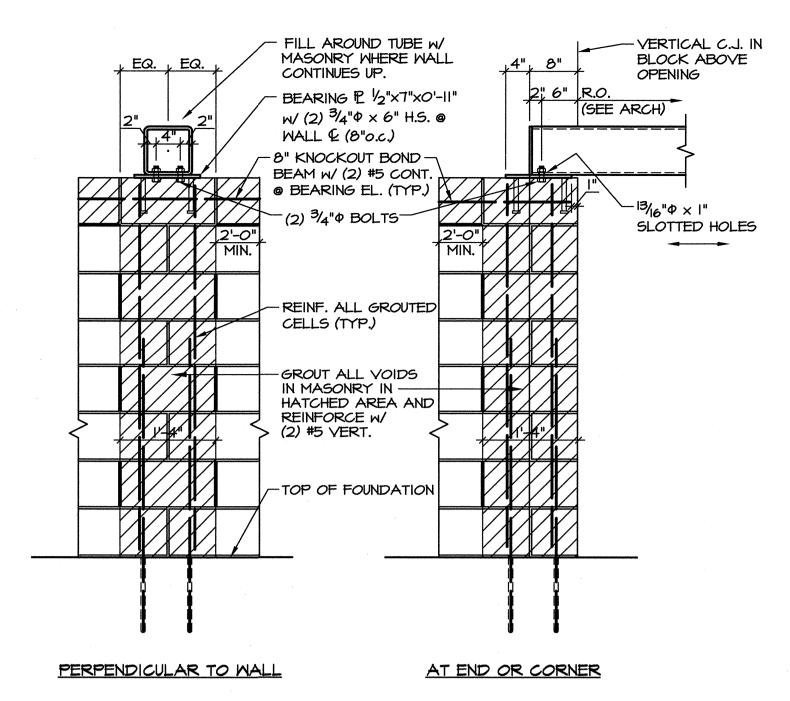
(4" EMBED)

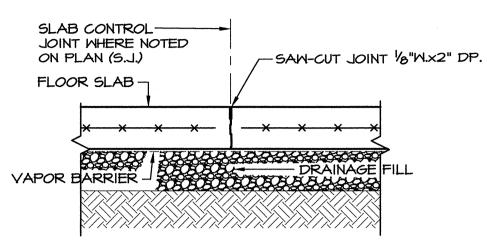
K-JOIST-

(SEE PLAN)

(SEE PLAN)

HORIZ. BRIDGING -





CONTRACTOR:
IF SAW JOINTS ARE USED, CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE

SLABS MUST BE SAWN ON SAME DAY SLAB IS POURED. DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE SAWING



CONC. FOOTINGS

CONC. FILLED BOND BEAMS

CORNER BAR TO BE SAME SIZE & NUMBER

AS HORIZ. BARS

36 BAR DIAMETER

INTERSECTION

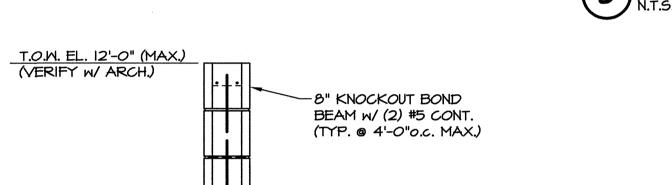
- WHERE ONLY ONE FACE OF HORIZ. REINF. OCCURS ALTERNATE BENT BAR DIRECTION

36 BAR DIAMETER

CORNER

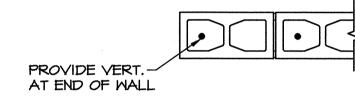
TYPICAL FOR:

BEAM BRNG. ON MASONRY WALL

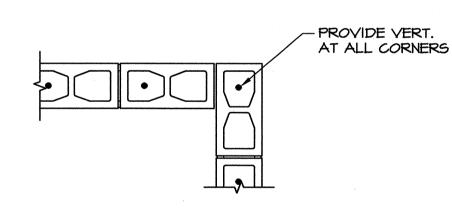


(3) CONTROL JOINT DETAIL

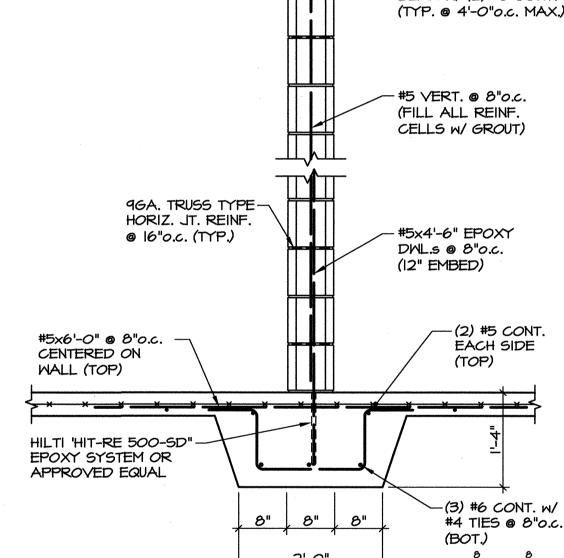
BRICK VENEER



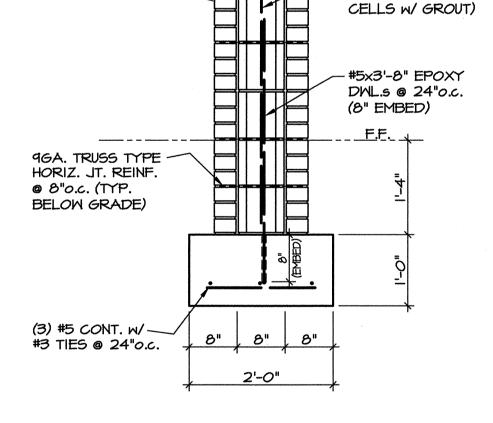
TYP. REINFORCING FOR WALL ENDS



TYP. REINFORCING FOR CORNERS



THICKENED SLAB DETAIL



-#5 VERT. @ 24"o.c. (FILL ALL REINF.

(a)	TYPICAL	BLOCK	MALL	REINFORCING
0	N.T.S.			,

	LINTEL	SCHEDULE			
WALL TYPE	UP TO 4'-0" OPENING	4'-1" TO 6'-0" OPENING	6'-1" TO 8'-0" OPENING	8'-1" TO 10'-0" OPENING	10'-1" TO 12'-0" OPENING
4" VENEER	131/2×31/2×1/4	∠5×3½× ⁵ /16 (LLV)	∠6×3½×5/16 (LLV)	16x31/2x5/16 (LLV)	16x31/2x5/16 (LLV)
4" INTERIOR BLOCK	(2) <u>/</u> 11/2×11/2×3/16				
6" BLOCK	6" MIDE x 8" HIGH LINTEL BLK. w/ (2) #5	(2) <u>/</u> 3 ¹ / ₂ ×2 ¹ / ₂ × ³ / ₈			***************************************
8" BLOCK	8"x8" LINTEL BLK. w/ (2) #5	(2) /5x3½x ⁵ /16 (LLV)	(2) 16x31/2x5/16 (LLV)	(2) 16×3½× ⁵ /16 (LLV)	(2) 16x31/2x5/16 (LLV)
12" (8" BLK. & 4" BRICK)	8"x8" LINTEL BLK. W/ (2) #5 \$ /31/2×31/2×4	(3) \(\alpha 5\times 3^{1/2}\times 5^{1/6}\) (LLV)	(3) 16×3½×5/16 (LLV)		

ATTACH DECK TO

PW/%"中PUDDLE

一巴4"×7"×1'-0" w/ (2) ½"4×4" H.S. @ 24"o.c.

- HORIZ. BRIDGING

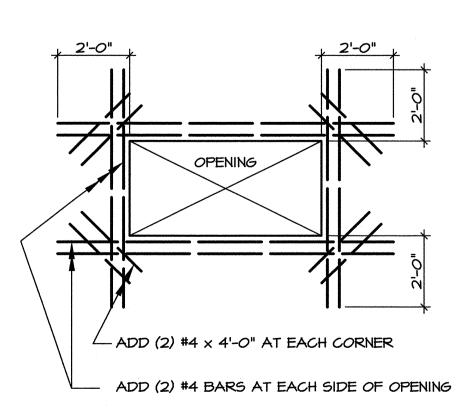
(SEE PLAN)

- K-JOIST

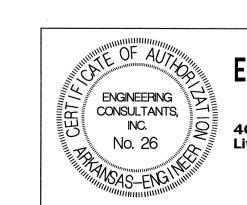
(SEE PLAN)

WELDS @ 6"O.c.

- I. LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.
- 2. WHERE ANGLES ARE BACK TO BACK, WELD TOGETHER WITH LONG LEGS VERTICAL (LLV), @ 12" INTERVALS.
- 3. 8" BEARING @ EA. END, MINIMUM.
- 4. USE 3,000 PSI CONCRETE IN LINTEL BLOCKS.
- 5. FILL CELLS BELOW LINTEL BEARING W/ CONCRETE FULL HEIGHT, (PROVIDE (I) #5 VERTICAL BAR IN EACH CELL).



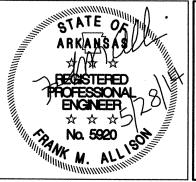
OPENING IN SLAB DETAIL



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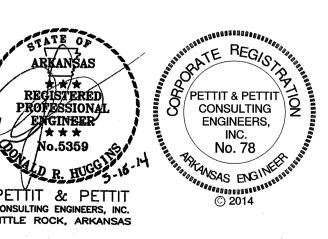


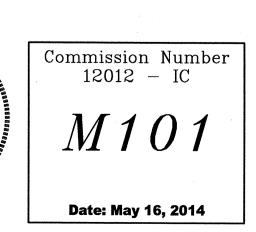
Commission Number 12012 - IC









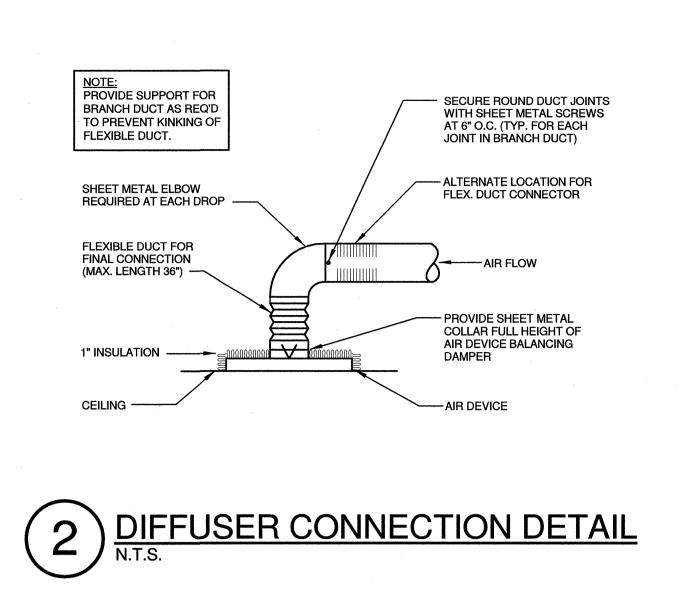


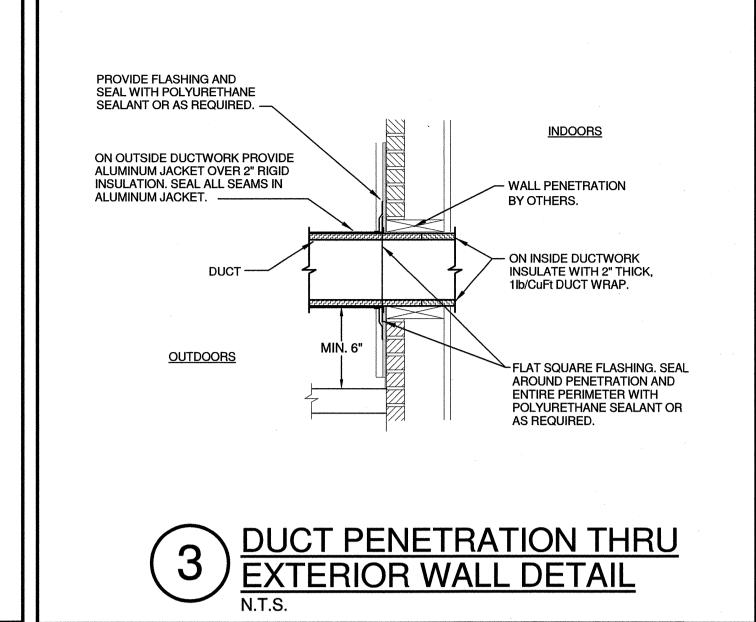


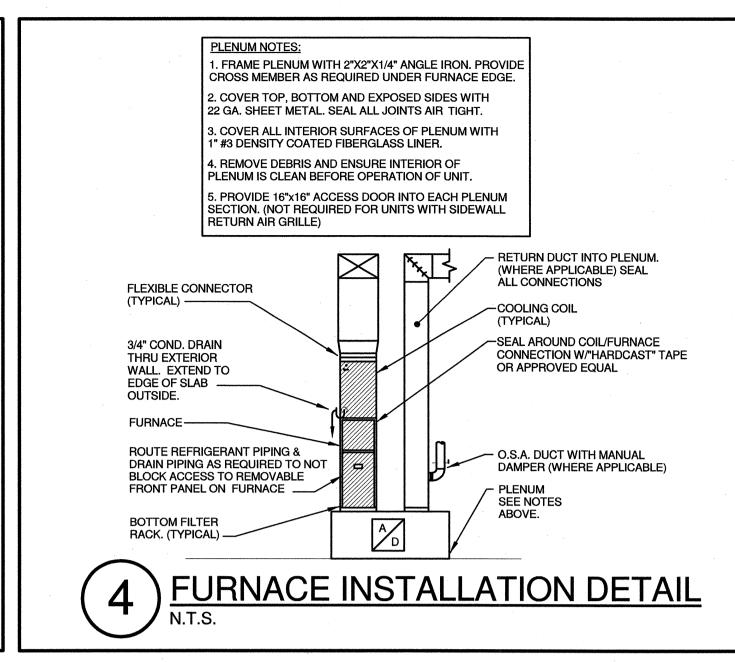
STATE UNIVERSITY

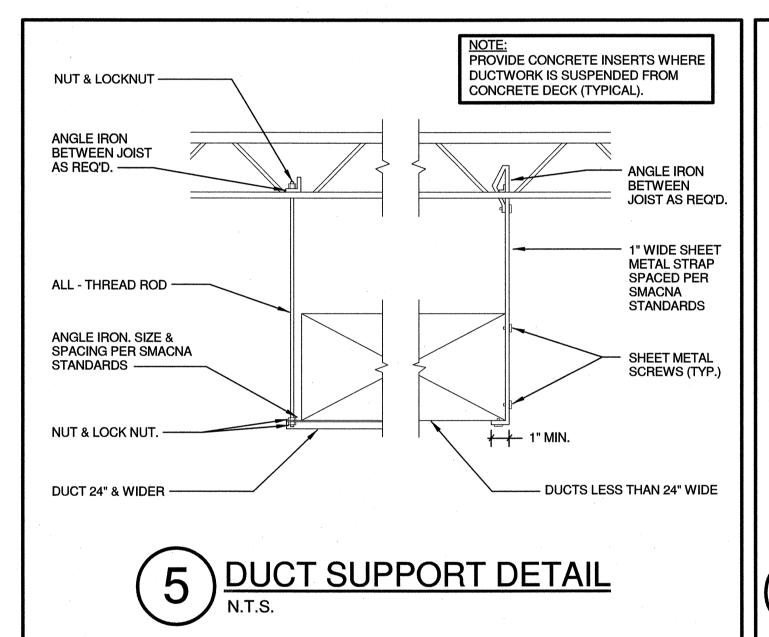
CCER & TENNIS FACILITY

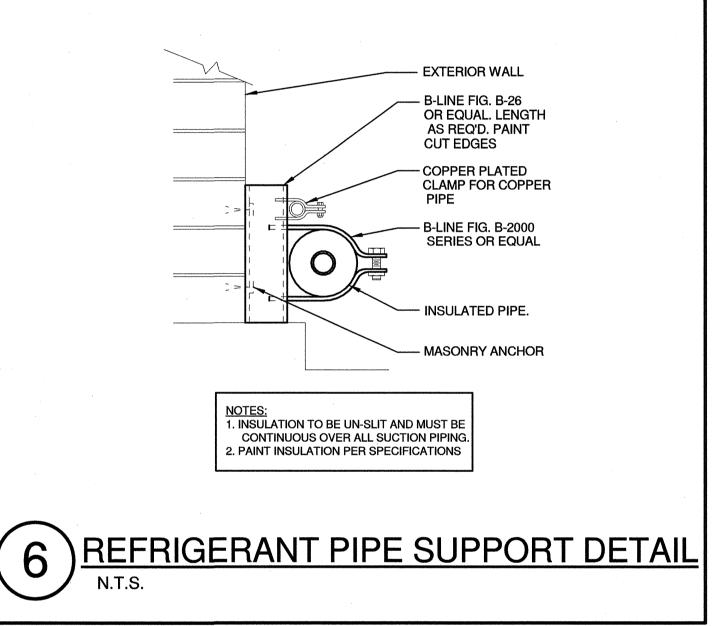
Sboro, Arkansas

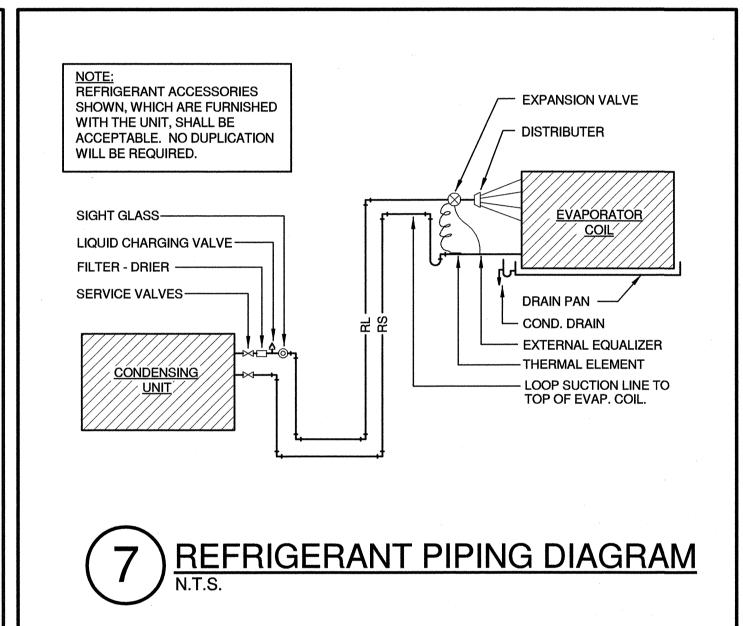


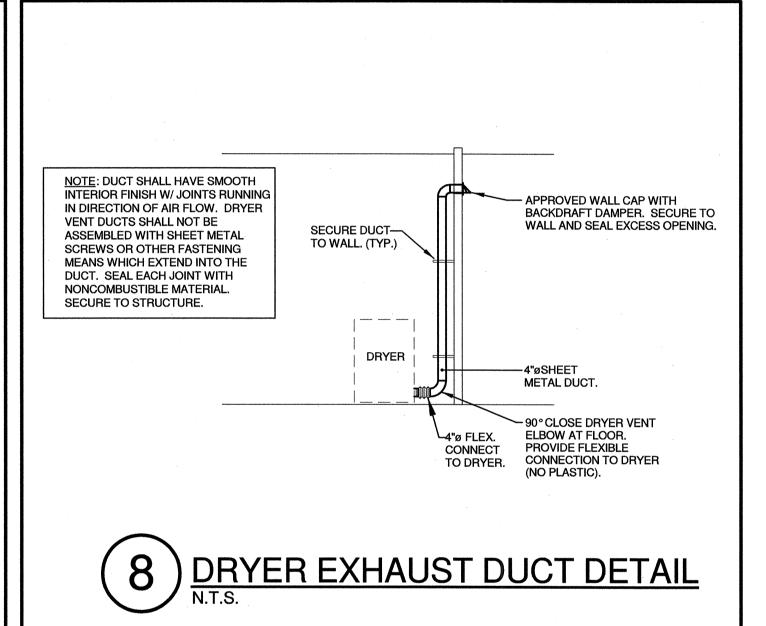


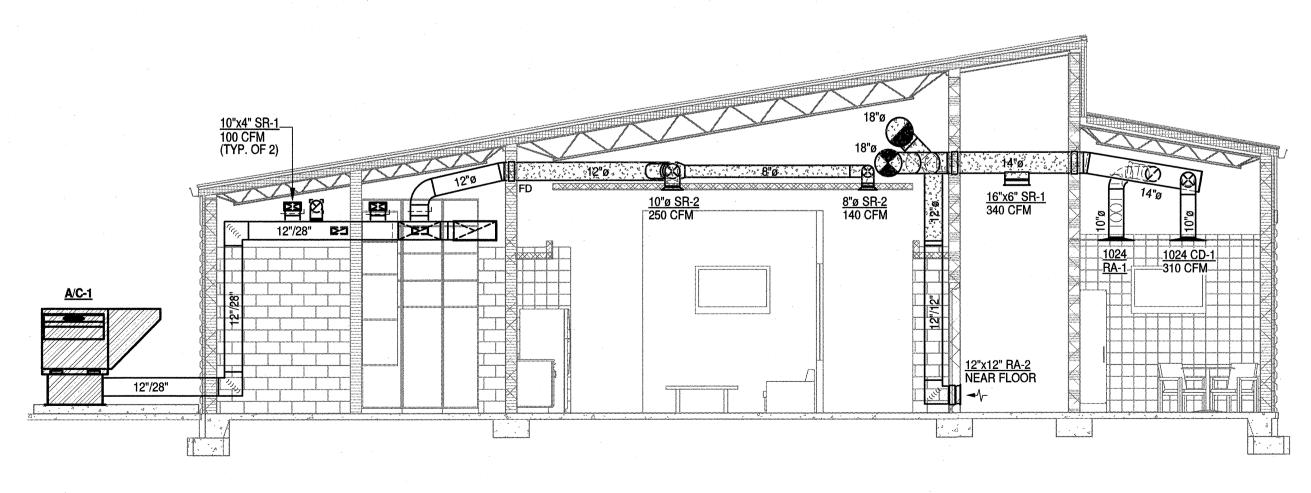


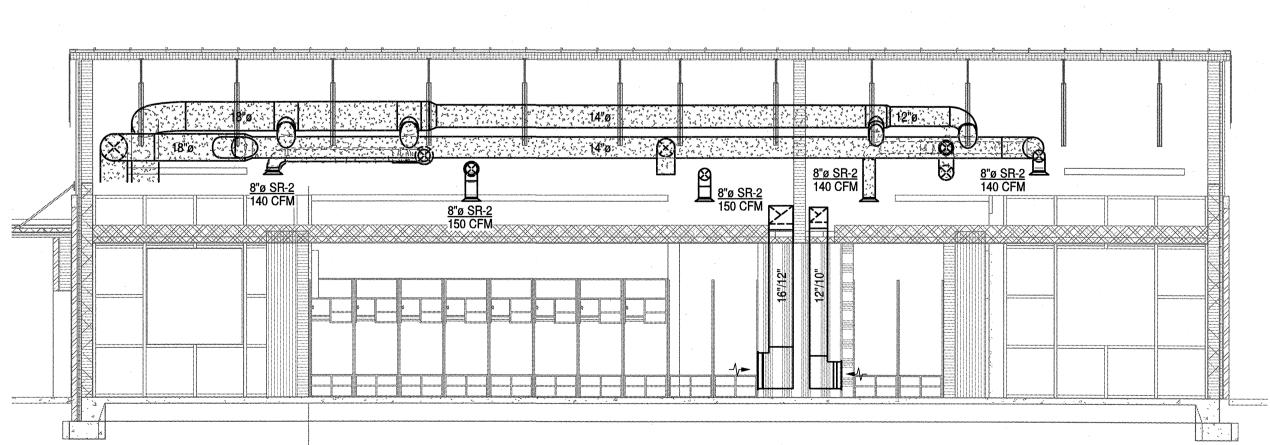


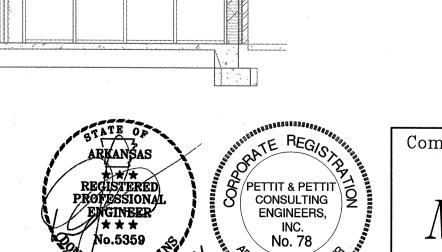


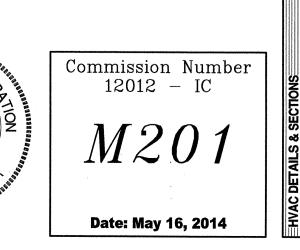












9 BUILDING SECTION
SCALE: 3/16" = 1'-0"

10 BUILDING SECTION
SCALE: 3/16" = 1'-0"

Revision Schedule

| Issued |

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DESIG. MFR/MDL SERVES EXH. OSA ESP/TSP COOLING MFR/MDL SERVES EXH. OSA ESP/TSP TOTAL SENS COIL EAT COIL LAT ERV/MBH AMBIENT FUEL CAPACITY COMPRESSOR COIL EAT COMPRESSOR COIL EAT COIL		b. 4.44
	HP V/P MCA	MOCP
A/C-1 AAON / RN-010-3-0-E60E LOCKER ROOMS 2,100 2,100 - 112.8 GRO 108.5 NET 60.13 NET 70.74 °w.b. 52.32 °w.b. 79.64 °w.b. 52.32 °w.b. 79.64 °w.b. 79.0 °w.	2 460 / 3ø 54	UNIT PROVIDED W/ SOLID BOTTOM CURB WITH HORIZONTAL DUCT CONNECTIONS, HOT GAS RE-HEAT, 2" FILTERS, HUMIDITY SENSOR & DEHUMIDIFICATION CONTROLS. VARIABLE CAPACITY COMPRESSOR. ELECTRIC AUX. HEAT 30kw, AUX ELECT. HEAT 10kw (SEE SEQUENCE OF OPERATIONS & SPECIFICATIONS)

	AlR	HA	NDL	NG	UNI	T SC	HED	ULE																					
DESIG	MFR	/MDL	TYPE	NOM. TONS	CFM	OSA	ESP	DRIVE	EAT	COOI LAT	ING SEC TOTAL CAPACITY	TION SENSIBLE CAPACITY	AMBIENT	TYPE	HEA EAT	TING SEC	TION LAT	CAPACITY	TYPE	AUXILLI/	ARY HEA	TING SE	CTION TEMP. RISE		CTRICAL MOCP \	DATA VOLT/PHAS	SEER	EER	REMARKS
AHU-1	RHEEN RHLL-HI	M / IP6024J	UPFLOW	5 TON	1,865	180	.50"		80°F d.b 67°F w.b.	—℉d.b —℉w.b.	59.5 MBH	42.2 MBH	95°F	HEAT PUMP	70°F	17°F	°F	37.8 MBH	ELECTRIC	(1)5.68 (1)5.86	°F	°F	°F	(1)32 (1)52	(1)35 (1)60	208 / 1ø	14.5	12	PROVIDE EXTERNAL BOTTOM FILTER RACK WITH HINGED ACCESS DOOR, AND AUXILIARY ELECTRIC HEAT. UNIT W/ CIRCUIT BREAKERS.

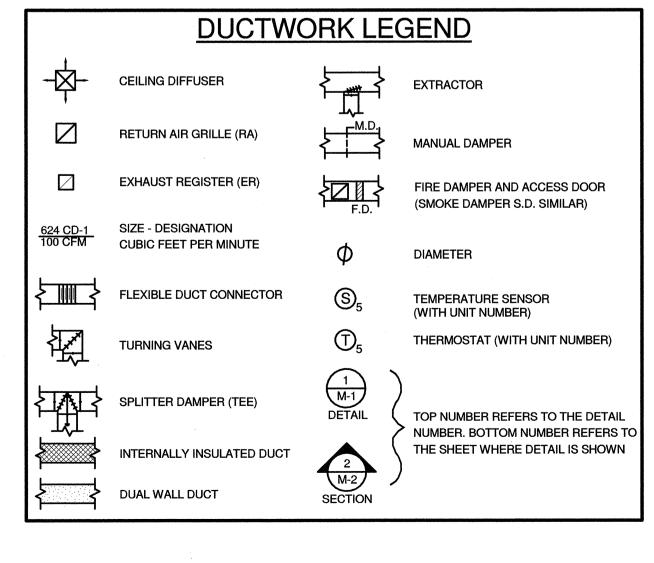
	HEATPU	IMP S	SCHEDU								
DESIG	MFR/MDL	()	SING UNIT	SERVES		ING W/ C	OIL TONS	ELECTRIC/ VOLTS/PHASE	1777	MOCP	REMARKS
HP-1	RHEEM / RPQL-060JEZ	AIR COOLED	95℉	AHU-1	36.0 MBH	26.3 MBH	3 TON	208 / 1ø	24	30	REFER TO SPECIFICATIONS.

	MINI-SI	PLITII	NDOOF	R A/C	UNI	r sc	HEDULE													
DESIG	MFR/MDL	TYPE	LOCATION	CFM	OSA	ESP	DIMENSIONS	WEIGHT	CAPACITY	OOLING INDOOR	OUTDOOR		HEATING INDOOR	OUTDOOR	REFRIGERA GAS	ANT PIPE SIZE	MCA	LECTRIC MOCP	AL DATA VOLT/PHASE	REMARKS
MS-1	DAIKIN / FTXN12KEVJU	WALL MOUNTED EXPOSED CABINET	I.T. ROOM	201 LOW 357 HIGH	_		11 1/8" x 30 1/4" x 7 3/4"	16 LBS.	12,000 BTU/H	80° d.b. 67° w.b.	95° d.b. 75° w.b.	13,500 BTU/H	70° d.b.	47° d.b.	3/8"	1/4"	1.0	******	208v / 1ø	CONDENSATE PUMP, T-STAT & MOUNTING BRACKET, PROVIDE CONDENSATE OVERFLOW SAFETY CUT-OFF SWITCH.

	MINI-SPI	LIT CO	ONDE	insing un	UT SC	CHEDUL	Æ														
DESIG.	MFR/MDL	TYPE	SERVES	DIMENSIONS	WEIGHT	CAPACITY	OOLING INDOOR	OUTDOOR	CAPACITY	HEATING INDOOR	ОИТВОО	FAN PR TYPE / QUANTITY	DATA CFM	KW	CO TYPE	MPRESSOR D MOTOR KW	and the second s	MCA	ELECTRICA MOCP	L DATA VOLT/PHASE	REMARKS
MSCU-1	DAIKIN / RXN12KEVJU	AIR COOLED	MS-1	21 11/6" x 25 15/16" x 10 3/4"	68 LBS.	12,000 TOTAL	80° d.b. 67° w.b.	95° d.b.	13,500 BTU/H			PROP / 1	No consta	Mades	INVERTER		sala.	7	15	208 V/ 1ø	INDOOR AND OUTDOOR UNIT POWERED THRU OUTDOOR UNIT. VERIFY WITH MANUFACTURER'S INSTRUCTIONS. SEER = 18

	EXHAUS	TFAN	SCHE	DULE												
DESIG	MFR/MDL	SERVES	LOCAT.	TYPE	CFM	S.P.	RPM	FAN DAT DRIVE	<u> </u>	DIA.	SONES	RPM	MOTO BHP	R DAT	A VOLT/PH	REMARKS
EF-1	GREENHECK / SP-B110	TOILET #104	CEILING	CEILING MNTD.	70	.45"	754	DIRECT	CENT.	_	0.5	950	· <u>-</u>	100 w	115/1ø	

	AIR DEV	ICE SCH	EDULE							
DESIG.	MFR./MDL	ТҮРЕ	FACE SIZE	FINISH	FREE AREA	ACCESS.	REMARKS			
CD-1	TUTTLE & BAILEY / 1300	LOUVER FACE CEILING SUPPLY	AS NOTED	WHITE	Marrieda	VOLUME CONTROL	2'x2' GRILLE WITH ROUND NECK FIXED HORIZONTAL AIR DEFLECTION			
SR-1	TUTTLE & BAILEY / A54	DBL. DEFLECTION SIDEWALL SUPPLY	AS NOTED	WHITE		VOLUME CONTROL	ALUMINUM CONSTRUCTION			
SR-2	TUTTLE & BAILEY / RA-54	DBL. DEFLECTION SUPPLY (ROUND)	AS NOTED	WHITE		VOLUME CONTROL	ALUMINUM CONSTRUCTION 1" BLADES ON 1" CENTERS			
					·					
RA-1	TUTTLE & BAILEY / PR	PERF. FACE CEILING RETURN	AS NOTED	WHITE						
RA-2	TUTTLE & BAILEY / T115	HEAVY DUTY SIDEWALL RETURN/EXHAUST	AS NOTED	WHITE			16 GA. MARGIN W/14 GA. BARS, SPACED AT 1/2" CENTERS AT 38° DEFLECTION.			
ER-1	TUTTLE & BAILEY / PR	PERF. FACE CEILING EXHAUST	AS NOTED	WHITE	51%	VOLUME CONTROL				
ER-2	TUTTLE & BAILEY / T115	HEAVY DUTY SIDEWALL RETURN/EXHAUST	AS NOTED	WHITE	-	VOLUME CONTROL	16 GA. MARGIN W/14 GA. BARS, SPACED AT 1/2" CENTERS AT 38° DEFLECTION.			
BV-1	SUPERB VENTS	BRICK VENT INTAKE LOUVER	AS NOTED	PRIME COAT		INSECT SCREEN & VOLUME DAMPER				



GENERAL NOTES

- DUE TO THE SMALL SCALE OF THIS DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, AND ACCESSORIES WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING THE WORK AND SHALL COORDINATE AND ARRANGE HIS WORK ACCORDINGLY.
- ROUND BRANCH DUCT RUNOUTS SHALL BE SAME SIZE AS DIFFUSER THROAT UNLESS OTHERWISE NOTED.
- FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTIONS TO DIFFUSERS. A MAXIMUM LENGTH OF THREE FEET (3') SHALL BE USED. A HARD 90° ELBOW MUST BE USED WHERE DUCT TURNS DOWN ABOVE DIFFUSER. (SEE DETAIL SHEET M201).
- (4-WAY) PATTERN UNLESS OTHERWISE INDICATED.

ALL CEILING-MOUNTED SUPPLY DIFFUSERS SHALL HAVE FOUR-WAY

- WHERE MANUAL DAMPERS ARE INSTALLED IN EXTERNALLY INSULATED DUCTWORK, PROVIDE STAND-OFF BRACKET TO PREVENT COMPRESSION OF INSULATION BY DAMPER OPERATOR HANDLE.
- PROVIDE TURNING VANES IN ALL 90-DEGREE ELBOWS.
- PROVIDE SLEEVES THROUGH WALLS AND FLOORS. SEAL EXCESS OPENING WITH WATER-PROOF SEALANT. COORDINATE LOCATIONS AND SIZES OF SLEEVES WITH GENERAL CONTRACTOR. SLEEVES SHALL PROVIDE A MAXIMUM OF 1" CLEARANCE BETWEEN DUCT OR PIPE AND SLEEVE. SEAL PENETRATION IN FIRE/SMOKE RATED WALLS AND FLOOR WITH AN APPROVED FIRE/SMOKE BLOCK SEALANT.
- EXTERNALLY INSULATE SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK UNLESS NOTED OTHERWISE.
- EXHAUST DUCTWORK SHALL BE UN-INSULATED, UNLESS NOTED
- 10. EXTERNALLY INSULATE LOW-VELOCITY ROUND RUNOUT DUCTWORK
- 11. DUAL WALL DUCTWORK SHALL BE 1" THICK WITH INSULATION BETWEEN
- 12. INSULATE THE TOP OF ALL SUPPLY AIR DIFFUSERS WITH A MINIMUM OF 1/2" THICK FIBERGLASS DUCT WRAP.
- 13. RUN COOLING COIL CONDENSATE DRAINS FULL SIZE TO NEAREST FLOOR OR ROOF DRAIN.
- 14. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE AND SMOKE
- 15. COORDINATE LOCATION OF DUCTS AND DIFFUSERS WITH STRUCTURAL FRAMING MEMBERS. OFFSET DUCTS AS REQUIRED TO CLEAR
- STRUCTURAL MEMBERS. 16. COORDINATE LOCATIONS AND ELEVATION OF DUCT RUNS WITH
- PLUMBING AND ELECTRICAL CONTRACTORS. 17. COORDINATE MAKE-UP WATER AND GAS REQUIREMENTS WITH
- PLUMBING CONTRACTOR. 18. PROVIDE ACCESS DOORS FOR ALL FIRE DAMPERS. PROVIDE CEILING
- ACCESS DOORS FOR DAMPERS ABOVE GYPSUM BOARD CEILINGS.
- 19. PAINT DUCTWORK BLACK THAT MAY BE VISIBLE ABOVE PARTIAL CEILINGS. COORDINATE PAINTING OF DUCTWORK WITH ARCHITECT.
- REFLECTED CEILING PLANS.

20. COORDINATE CEILING DIFFUSER LOCATIONS WITH ARCHITECTURAL

EQUIPMENT SEQUENCE OF OPERATION

VENTILTION AIR UNITS (VAU-1)

- VENTILATION SYSTEM IS CONTROLLED BY THE UNIT CONTROLLER WHICH IS TIED TO THE B.A.S. THRU A BACNET INTERFACE. THE VENTILATION UNIT PROVIDES THE REQUIRED SPACE OUTSIDE AIR AND SERVES SPACE HEATING AND COOLING NEEDS.

- OCCUPIED AND UNOCCUPIED SETTINGS, SUCH AS TIME SCHEDULES AND TEMPERATURE SETPOINTS ARE ADJUSTABLE THROUGH THE B.A.S.

- IN UNOCCUPIED MODE, THE UNIT IS OFF. WHEN SPACE TEMPERATURE EXCEEDS THE UNOCCUPIED SPACE SETPOINT (COOLING) OR FALLS BELOW THE UNOCCUPIED SPACE SETPOINT (HEATING), THE UNIT ERV/OSA SECTION DOES NOT OPERATE AND THE UNIT IS IN BY-PASS MODE, RECIRCULATING AIR FROM THE SPACE. THE UNIT COOLING OR HEATING WILL CYCLE AS REQUIRED TO SATISFY THE UNOCCUPIED SPACE SETPOINT.

- IN OCCUPIED MODE, THE UNIT IS TO DELIVER 100% OUTSIDE AIR TO THE SPACE. CONDITIONED AND DE-HUMIDIFIED (PER THE HUMIDITY SENSOR), AND WILL EXHAUST 100% OF THE AIR FROM THE SPACE. THE SUPPLY FAN AND ENERGY WHEEL WILL RUN

- UNIT DEHUMIDIFICATION CYCLE IS INITIATED BY OUTSIDE AIR HUMIDITY SENSOR.

- UNIT MORNING WARM UP CYCLE IS PROGRAMMABLE THROUGH THE B.A.S.

SPLIT SYSTEM HEAT PUMP AHU/HP-1

- IN OCCUPIED MODE, FAN, COOLING AND HEAT CYCLE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

- OCCUPIED AND UNOCCUPIED TEMPERATURE SETPOINTS SHALL BE ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (B.A.S.)

- A SETPOINT LIMIT OR RANGE FOR SPACE THERMOSTATS SHALL BE ADJUSTABLE THROUGH THE B.A.S.

- CONTROLS CONTRACTOR TO INSTALL A DUCT SUPPLY AIR TEMPERATURE SENSOR.

SUPPLY AIR TEMPERATURE, AND UNIT STATUS SHALL BE VISIBLE THRU THE B.A.S. MINI SPLIT MS-1/MSCU-1

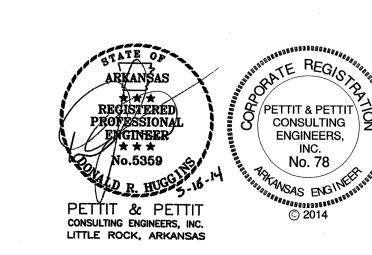
THROUGH THE BUILDING AUTOMATION SYSTEM (B.A.S.)

- CONTROLS CONTRACTOR TO PROVIDE MEANS OF PROVIDING SPACE TEMPERATURE AND UNIT STATUS TO B.A.S.

- OCCUPIED AND UNOCCUPIED TEMPERATURE SETPOINTS SHALL BE ADJUSTABLE

EXHAUST FAN EF-1

- THE EXHAUST FAN WILL BE CONTROLLED BY WALL SWITCH. SEE ELECTRICAL.



Commission Number 12012 - IC

	FIXTURE LEGEND
SYMBOL	DESCRIPTION
	NEW FIXTURE
0	ROUGH IN AND FINAL CONNECT ONLY

PLUMBING GENERAL NOTES

- THE CONTRACTOR SHALL, PRIOR TO THE START OF ANY WORK UNDER THIS CONTRACT, JOB SITE VERIFY SIZE, LOCATION, ETC. OF ANY EXISTING PIPING NOTED, SHOWN OR IMPLIED, TO WHICH NEW PIPING IS RELATED OR CONNECTED.
- 2. HOT AND COLD WATER SUPPLIES TO FIXTURES SHALL BE AS FOLLOWS, UNLESS SHOWN OR NOTED OTHER WISE.

WATER CLOSET	4.9
URINAL	
LAVATORY	1/2'
SERVICE SINK	3/4'
ELECTRIC WATER COOLER	1/2
SINK	1/2'
SHOWER	1/2'
FREEZE-PROOF WALL HYDRANT	3/4
ICE MACHINE	1/2
SUPPLY AND DRAIN UNIT (WASHER BOX)	1/2
HOSE RIBB	3/4'

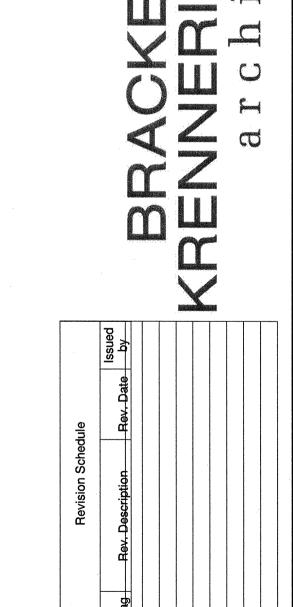
- 3. INSTALL WATER HAMMER ARRESTORS EQUAL TO ZURN "SHOKTROL" AT EACH QUICK CLOSING VALVE, AND AT EACH GROUP OF PLUMBING FIXTURES, AND AS NOTED ON DRAWINGS SIZED AS PER MANUFACTURERS RECOMMENDATIONS. (MUST BE ACCESSIBLE WHERE POSSIBLE, ABOVE CEILING IF NECESSARY)
- 4. ALL SUPPLIES TO FIXTURE SHALL BE PROVIDED WITH HIGH EAR COUPLING EQUAL TO MUELLER CO. No. C-100HE (1/2", 3/4" OR 1" SIZE) AT THE WALL (ANCHOR TO CROSS MEMBER SUPPORT) BEFORE PIPE ENTERS ROOM SPACE TO ASSURE NO PIPE MOVEMENT WITHIN WALL CAVITY.
- 5. ALL FLOOR DRAINS SHALL BE PROVIDED WITH DEEP SEAL TYPE TRAP WITH NOT LESS THAN FOUR INCH (4") WATER SEAL AND BE PROVIDED WITH TRAP PRIMER.
- 6. ALL VENTS THROUGH ROOF (V.T.R.) SHALL BE PROVIDED WITH 6# (24" X 24" SIZE) FLASHING. WHERE STANDING SEAM TYPE IS USED THE FLASHING SHALL BE IN ACCORDANCE WITH THE ROOFING MANUFACTURERS RECOMMENDATION AND AS DETAILED ON THE ARCHITECTURAL DRAWINGS. CLOSE COORDINATION WITH THE ROOFING CONTRACTOR SHALL BE MAINTAINED TO ASSURE THE VENT PENETRATION IS CENTERED WITHIN THE METAL ROOF PANELS. TYPICALLY FOR METAL OR OTHER SPECIAL MATERIAL, ROOFS USE MANUFACTURED RUBBER BOOT WITH STAINLESS STEEL HARDWARE TYPE THAT IS ARCHITECT APPROVED AND MUST BE COMPATIBLE WITH ROOFING SYSTEM AND ROOF WARRANTY.
- 7. FLUSH VALVES SHALL BE MOUNTED SUCH THAT THE DIMENSION FROM FLUSH VALVE CENTERLINE TO FINISHED FLOOR SHALL BE 39". (DOES NOT APPLY TO ELECTRONIC FLUSH VALVES) WHERE HANDICAPPED GRAB BARS ARE INSTALLED ON BACK WALL AT CLOSET, FLUSH VALVE SHALL BE MOUNTED AT STANDARD HEIGHT. SEE SPECIFICATIONS AND WATER CLOSET DETAIL.
- 8. O WHERE THIS SYMBOL OCCURS ON THE DRAWINGS, REFERENCE SHOULD BE MADE TO THE KEYED NOTES ON THAT SAME SHEET AND THE CORRESPONDING NUMBER OF THAT NOTE.
- WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.
- CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, AND ELECTRICAL PLANS.
- PROVIDE CLEANOUT CLEARANCE IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE, BUT DO NOT LOCATE IN FOOT TRAFFIC PATHWAYS. DO NOT LOCATE CLEANOUTS IN FLOORS WITH CARPET. (FIELD COORDINATE) LOCATE FLOOR CLEANOUT NEAR WALLS, IN JANITORS ROOM, STORAGE ROOM, ETC., DO NOT LOCATE NEAR DOORWAYS.
- 2. PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.
- TRAP PRIMERS- LOCATE TRAP PRIMERS REASONABLY CLOSE TO PLUMBING FIXTURE (10' TO 20')- DO NOT CONNECT TRAP PRIMER TO WATER LINE LARGER THAN 1 1/2" SIZE- TRY TO LOCATE TRAP PRIMER LOWER THAN PLUMBING FIXTURES. FIELD VERIFY EXACT TRAP PRIMER LOCATIONS AND WATER PIPE ROUTING. TRAP PRIMER SHALL TYPICALLY BE PRECISION PLUMBING PRODUCTS MODEL # P2-500. WHERE FLOOR DRAINS OCCUR NEAR WATER CLOSETS USE VACUUM BREAKER TRAP PRIMER SLOAN "TP" MODEL VBF-72A EXPOSED 3/8" TUBING SHALL BE VERY MINIMAL AND CHROME PLATED WITH CAST CHROME FLANGE TO WALL.
- 14. COORDINATE EXACT LOCATIONS OF ALL PLUMBING PIPING WITH ARCHITECTURAL AND STRUCTURAL
- 15. VERIFY WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL "ADA" PLUMBING FIXTURES
- 16. ALL JANITORS ROOMS SHALL HAVE FLOOR DRAINS.
- 17. ALL SANITARY SEWER RISERS SHALL HAVE CLEANOUT AT THE BASE (WALL CLEANOUT OR FLOOR
- 18. ALL STORM DRAIN PIPING SHALL HAVE CLEANOUT PLUGS AT EACH 90° TURN ABV CEILINGS AND HAVE A FLOOR OR WALL CLEANOUT AT THE BASE OF ALL RISERS.
- 19. INSTALL PIPING EXPANSION JOINTS IN ALL PIPING THAT CROSSES BUILDING EXPANSION JOINTS. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND PLUMBING ROOF PLAN FOR BUILDING EXPANSION JOINT LOCATIONS
- 20. TWO-WAY CLEANOUTS SHALL BE INSTALLED AT THE JUNCTION OF THE BUILDING DRAIN AND THE BUILDING SEWER (TYP ALL AREAS) MUST BE INSTALLED TO MEET PLUMBING CODES, EVEN IF NOT SHOWN ON DRAWING VERIFY AND COORDINATE WITH CIVIL UTILITY DRAWINGS.

	PLUMBING	G LEGE	ND
SYMBOL	DESCRIPTION		
	SOIL, WASTE, OR SANITARY SEWER		UNION
SS	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
	SANITARY VENT	RD	ROOF DRAIN
CWV	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
W	WATER (ON SITE)	VTR	VENT THRU ROOF
	COLD WATER	НВ	HOSE BIBB
	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
	HOT WATER RETURN	со	CLEANOUT PLUG
SD	STORM DRAIN	FCO	FLOOR CLEANOUT
D	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
G	NATURAL GAS (LOW PRESSURE GAS)	wco	WALL CLEANOUT
	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
	GATE VALVE	R	DENOTES - SANITARY VENT STACK THRU ROOF
	GLOBE VALVE	RISER DIAC	HEET # RISER DESIGNATION
	CHECK VALVE	3	NEW CONNECTION TO EXISTING
<u>—————————————————————————————————————</u>	BALL VALVE	× × ×	EXISTING PIPING TO BE REMOVED OR ABANDONED
	PLUG COCK - GAS COCK		EXISTING PIPING TO REMAIN
	PRESSURE REDUCING VALVE	× × [CAP AND SEAL AIR OR WATER TIGHT
	STRAINER	× ×	TERMINATION POINT OF DEMOLITION

GENERAL PLUMBING SPECIFICATIONS

- 1. ALL PLUMBING WORK SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE AND ALL LOCAL CODES.
- 2. ALL WORK WILL COMPLY WITH ALL APPLICABLE CODES, AND THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES AND LATERAL COSTS
- 3. DOMESTIC WATER PIPING TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS AND "BRIDGIT" LEAD FREE SOLDER MADE IN U.S.A., ½" THICK (MIN.) FIBERGLASS INSULATION WITH FIRE RETARDANT JACKET, HOT WATER AND HOT WATER RETURN SHALL HAVE 1" THICK INSULATION (UNDERGROUND PIPING BE TYPE "K" COPPER WITH NO JOINTS BELOW FLOOR WHERE POSSIBLE OR SHALL HAVE 5% SILVER "SIL-FOS" BRAZED JOINTS) ALSO A 10 MIL POLY SLEEVE IS REQUIRED ON BELOW FLOOR SLAB PIPING AND HOT WATER MUST BE INSULATED WITH "FOAMGLASS" OR EQUAL.
- 4. SOIL, WASTE, DRAIN AND VENT PIPING

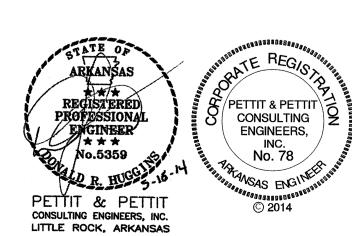
 SHALL BE SERVICE WEIGHT CAST IRON, COATED; MAY BE HUBLESS ABOVE GRADE; MUST BE HUB-AND-SPIGOT BELOW GRADE AND UNDER FLOOR. 1 ½" AND SMALLER SHALL BE DWV COPPER. EXTERIOR SANITARY SERVICE LINE SHALL ALSO BE CAST IRON.
- 5. <u>ESCUTCHEONS</u>: WILL BE PROVIDED ON PIPING THAT PASSES THROUGH BUILDING CONSTRUCTION IN EXPOSED AREAS.
- 6. <u>VALVES</u>: CONTRACTOR SHALL PROVIDE VALVES AT ALL EQUIPMENT AND EACH GROUP OF PLUMBING FIXTURES, AT EACH WATER LINE LATERAL, GATE VALVES TO BE EQUAL TO STOCKHAM NO. 13-120 OR NIBCO NO. T-134 SCREWED, BALL VAVLES, NIBCO NO. T-585-70-66, OR APOLLO NO. 77-140, GAS VALVES MCDONNEL #10686.
- 7. <u>PIPE HANGERS</u>: ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ON APPROVED HANGERS.
- 8. <u>STERILIZATION OF WATER PIPING</u> THE DOMESTIC WATER PIPING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE ARKANSAS STATE PLUMBING CODE AND ANY STATE OR LOCAL CODE.
- 9. PROVIDE ZURN WATER HAMMER ARRESTORS ON ALL HOT AND COLD SUPPLIES TO EACH FIXTURE SEE GENERAL NOTES.
- 10. ALL VENTS THROUGH ROOF SHALL BE PROVIDED WITH 6 LB. LEAD FLASHING. (OR AS REQUIRED BY ROOFING CONTRACTOR)
- 11. <u>CLEANOUTS</u>: FURNISH AND INSTALL ALL FLOOR, WALL, AND EXTERIOR AND CLEANOUT PLUGS WHERE SHOWN ON DRAWINGS. AND/OR AT A MAXIMUM OF 100 FT. SPACING INSIDE BUILDING. CLEANOUTS SHALL BE EQUAL TO WADE CO. OR ZURN PRODUCTS.
- 12. ALL VALVES SHALL BE ACCESSIBLE, WITH ACCESS DOOR, IF REQUIRED.
- 13. <u>CUTTING AND PATCHING</u> SHALL BE BY GENERAL CONTRACTOR.



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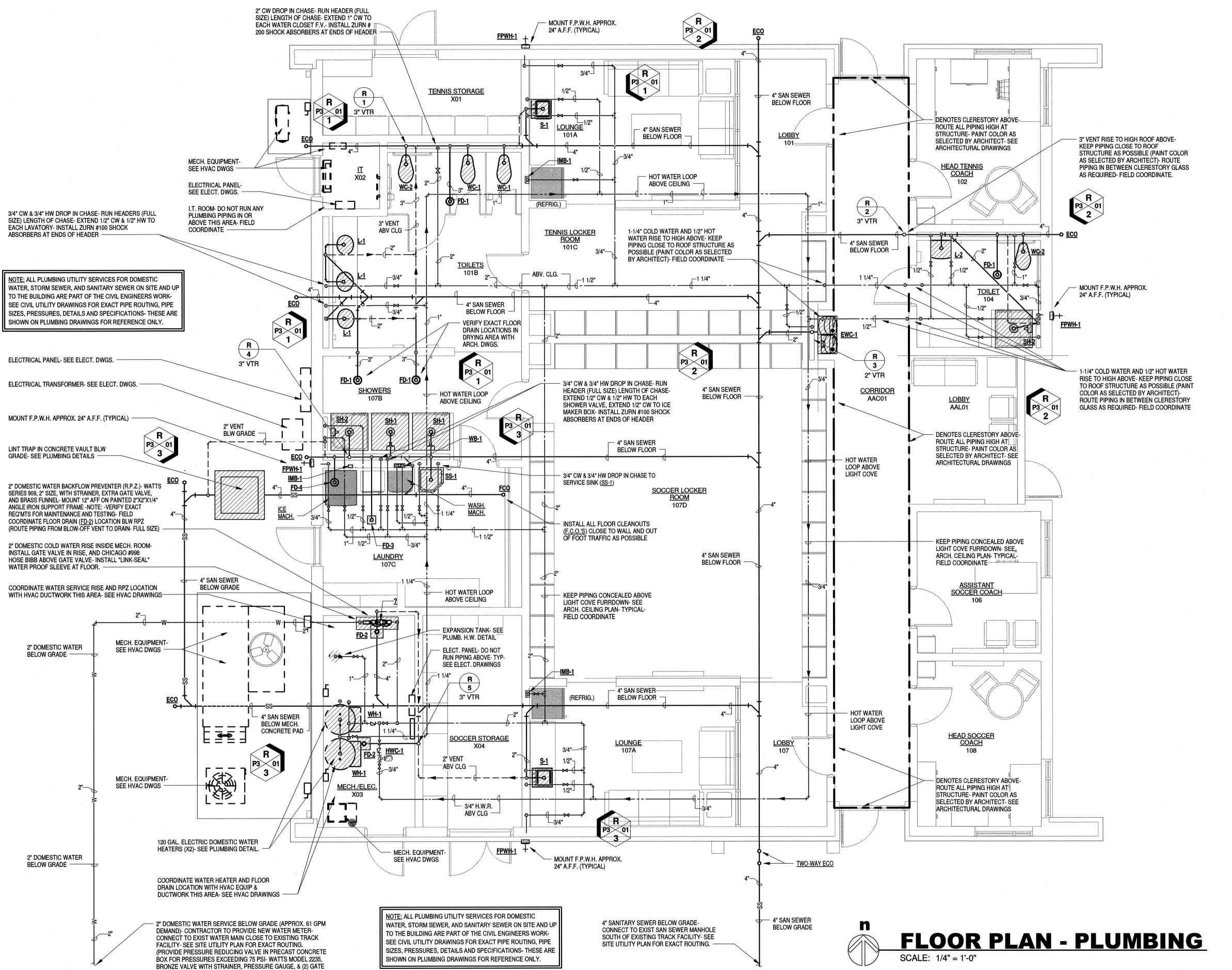
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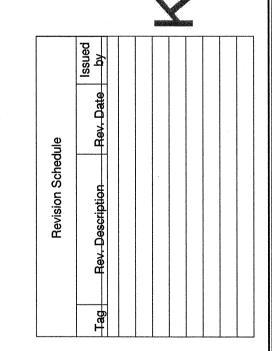
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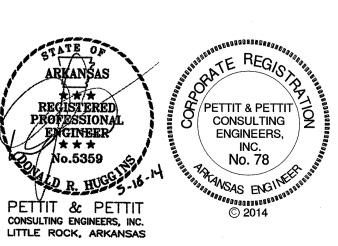


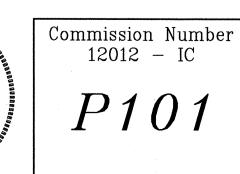
VALVES- LOCATE CLOSE TO WATER METER AS REQUIRED)

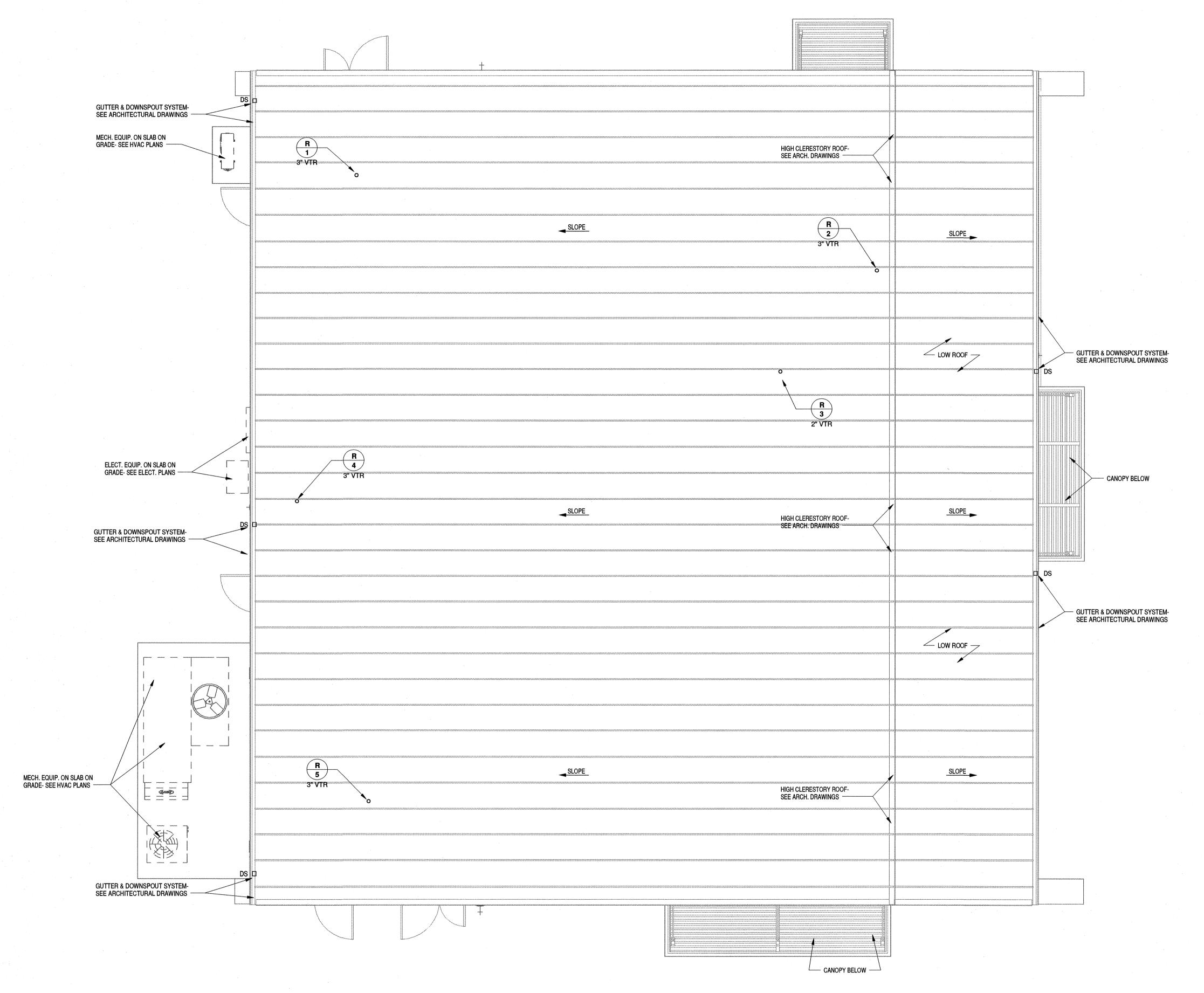


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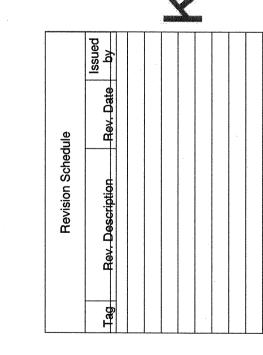


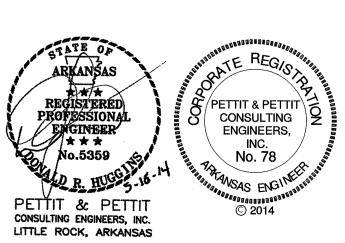


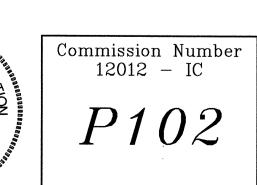


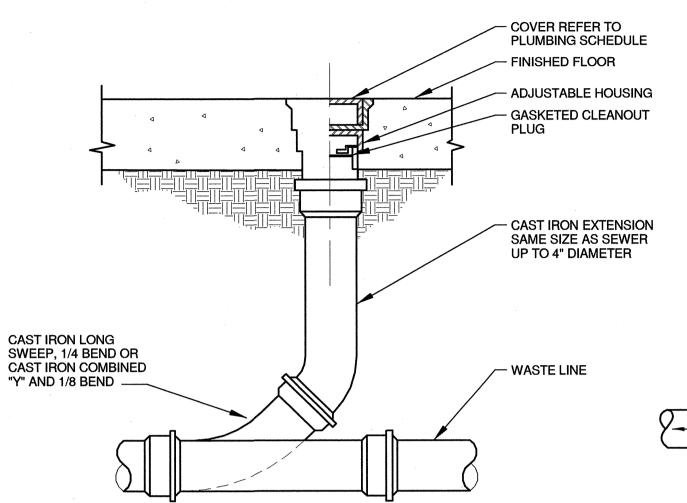
ARKANSAS STATE UNIVERSITY
PHASE 1C - SOCCER & TENNIS FACILITY
Jonesboro, Arkansas

REN NERICHETS architects





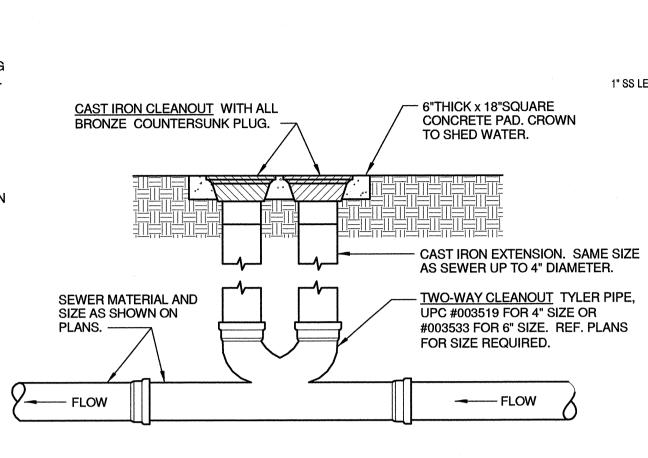




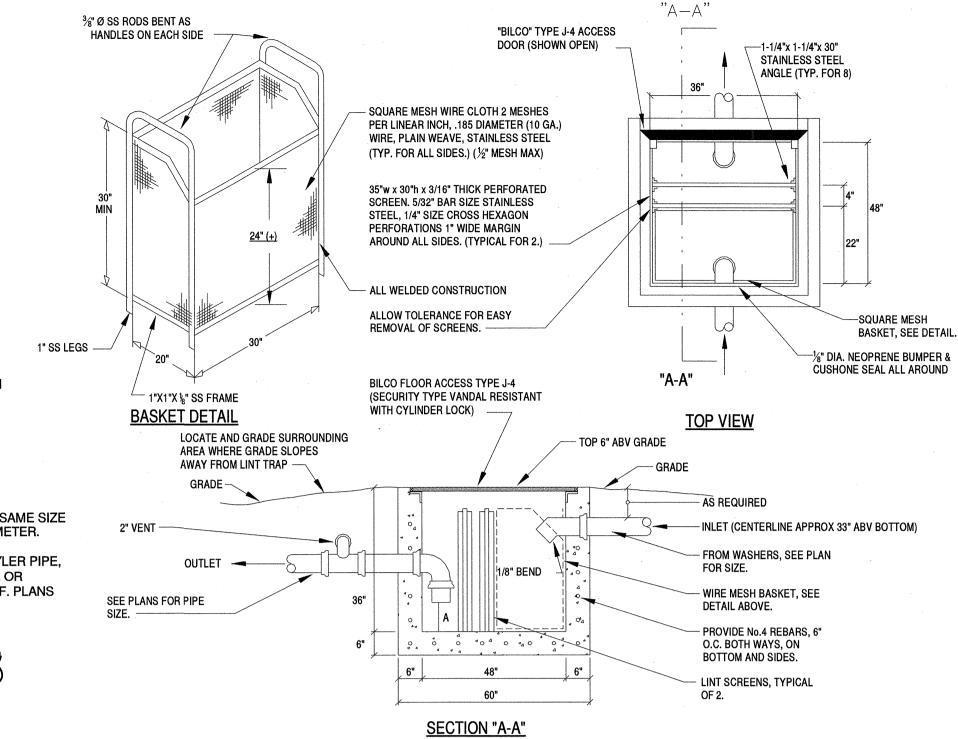
FLOOR CLEAN-OUT (FCO)

STUD WALL-

CW EXPOSED ON WALL



TWO-WAY CLEANOUT SCALE: NONE



NOTE: INSIDE DIMENSIONS 36"x48"x60" TO 72" DEEP - (FIELD VERIFY EXACT DEPTH) ALL STAINLESS STEEL WIRE SCREEN AND CLOTH AS MANUFACTURED BY McNICHOLS COMPANY OF TAMPA, FLORIDA OR APPROVED EQUAL.

LINT TRAP DETAIL SCALE: NONE

SHUT OFF VALVE

1" COLD

DIELECTRIC

UNIONS. (TYP.)

ASME ST-30V-C

4" CONCRETE

HOUSEKEEPING

PAD (TYPICAL)

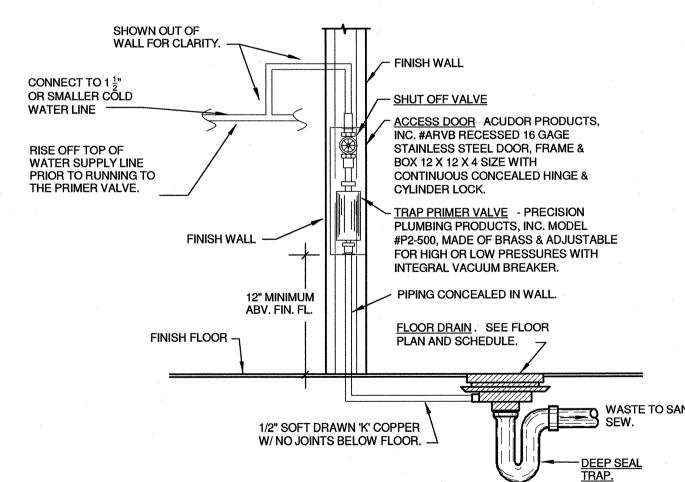
EXPANSION TANK AMTROL

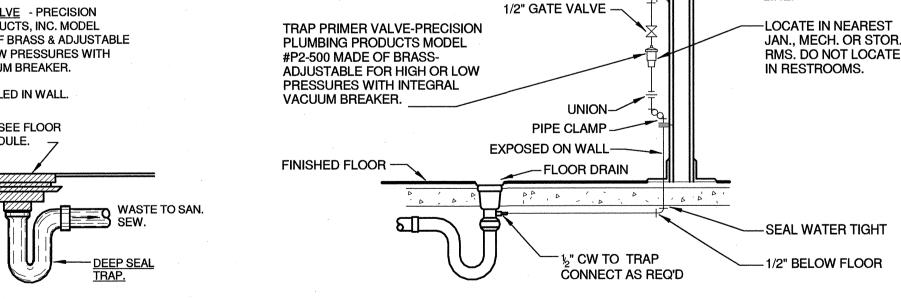
WATER SUPPLY.

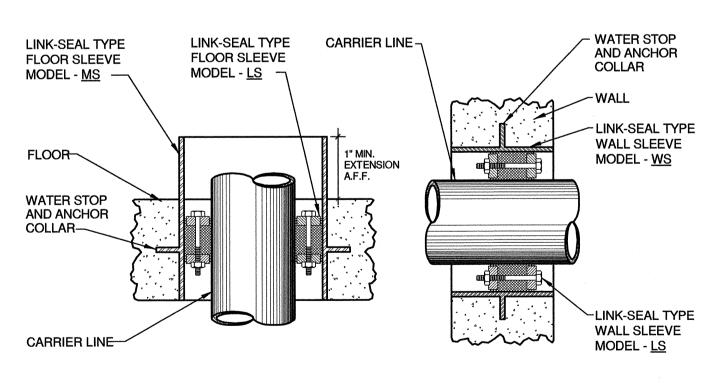
1. FIELD VERIFY ALL SCREEN AND BASKET DIMENSIONS TO ENSURE THAT BASKET AND SCREENS CAN BE EASILY REMOVED FOR CLEANING. 2. A PREFABRICATED LINT TRAP MAY BE USED IF IT MEETS ALL THE BASIC REQUIREMENTS OF THIS DETAIL AND MEETS ARKANSAS PLUMBING CODE AND CITY OF JONESBORO WASTE WATER DEPARTMENT REQUIREMENTS.

- CHECK VALVE

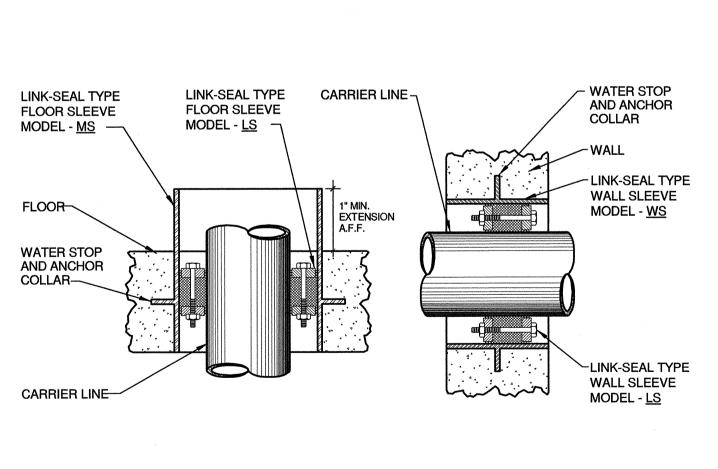
SHUT OFF VALVE







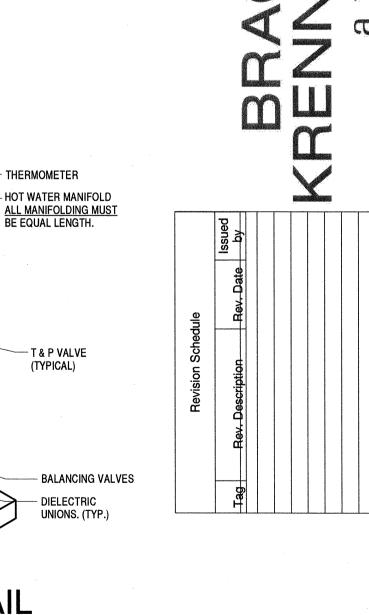




ELECTRIC WATER HEATERS DETAIL

COLD WATER MANIFOLD.

ALL MANIFOLDING MUST BE EQUAL LENGTH.



UNIVERSIT

A

<

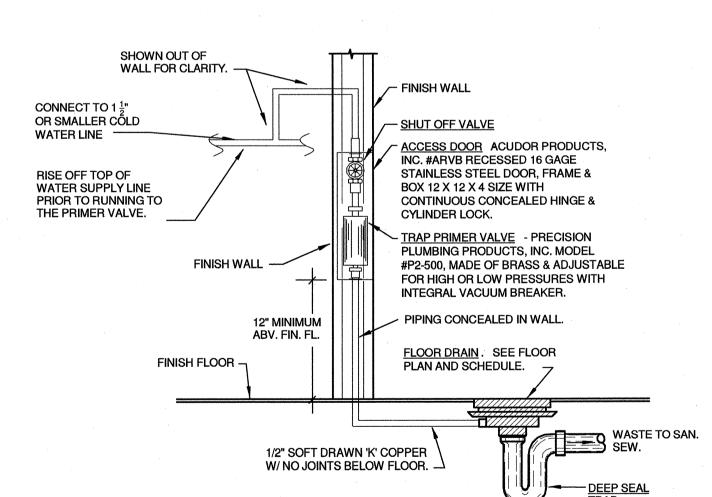
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FACILIT[®] S

PROFESSIONAL ENGINEER * * * PETTIT & PETTIT\ CONSULTING ENGINEERS, CONSULTING ENGINEERS, INC. LITTLE ROCK, ARKANSAS

— 1" HOT WATER OUTLET.

Commission Number 12012 - IC Date: May 16, 2014



TRAP PRIMER DETAIL (FOR CONCEALED LOCATIONS)

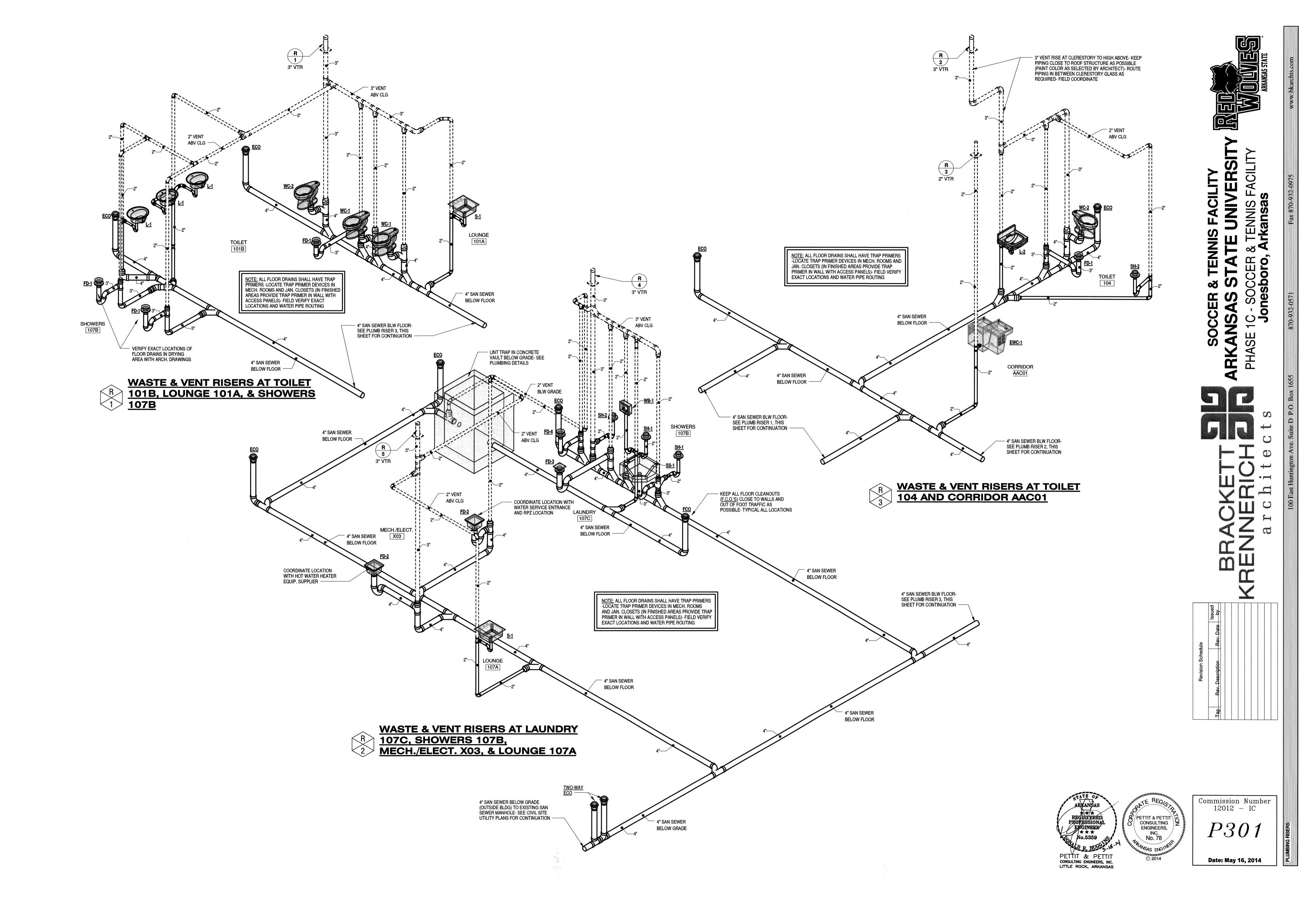
TRAP PRIMER TO FLOOR DRAIN

CONNECT TO 1 ½" OR

SMALLER COLD WATER

SCALE: NONE

(FOR EXPOSED LOCATIONS)



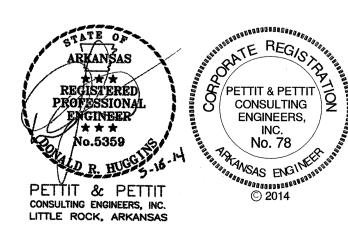
on Number 2 - IC
101

PE MA	NUFACTURER	MODEL	DESCRIPTION	ADA COMPLIANT	TRIM	SUPPLIES	TRAP	GPM	SUPPORT	COMMENTS
	Oasis	P8ACSL.	'Versacooler II Split Level' shall deliver 8 gallons of 50 degree F water at 80 degree inlet water and 90 degree F ambient. Bubblers shall be chrome-plated brass (or stainless steel) and built in regulator to deliver smooth steady stream at supply pressures from 20 to 125 psi. Cooling tank shall be red brass pressurized storage type with copper refrigerant coil bonded to exterior and hot tin dipped after assembly. All water tubing shall be tin dipped copper and and pressurized to the bubbler. Cooler top shall be 304 stainless steel with anti-splash design. Cooler frame shall be 16 gage welded steel and prime coated for corrosion protection. Pre-cooler shall be all copper construction and insulated for condensation protection. WAter cooler shall have 5 year warranty on sealed refrigeration system and most component parts. Cabinet finish shall be all stainless steel.	Yes		McGuire H-ST12LK heavy cast brass straight stop with loose key handle, 1/2 inch size.	McGuire 8088, 1-1/4 inch polished chrome plated cast brass adjustable ground swivel pattern with cleanout.		Plate Sytem' having steel	NOTE: Field verify if locations require 'ADA' Fountain to be on the right. Provide apron for uppoer unit (if required to meet ADA). Color to match fountain. See Architectural drawings for mounting heights.
-1	Zurn	Z-1300	'Ecolotrol' anti-siphon, non-freeze, 3/4 inch size nickel bronze casing and all bronze interior parts and non turning operating rod with free floating compression closure valve, nickel bronze face, integral backflow preventer, union elbow inlet, wall clamp and key handle. Box face and hinged cover shall be nickel bronze complete with operating key and 'Water' cast on cover.					-		
1 IF	S Corporation	BIM-875	'Guy Gray' Recessed steel box with cold water stop for ice maker water connection. Rough-in and final connect all refrigerator with icemakers and under counter icemkers; provide soft 1/4" copper pipe to appliance.						 	
1	Kohler	K-2196	Pennington® self-rimming lavatory, 20 inch by 17 inch size, vitreous china, oval basin, front overflow, with 8 inch faucet drilling centers	Yes	Sloan Optima sensor operated faucet, Model ETF-600, 0.5 gpm aerator, McGuire 155-A grid drain, perforated strainer and 1-1/4" tailpiece. Provide model EAF-37 transformer- 120VAC/6VDC (one transformer to serve up to 10 lavs)- locate box above ceiling.	McGuire H2167LK, 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, C.P. brass nipple to wall.	McGuire 8872, 1-1/4 inch, polished chrome plated cast brass adjustable 'P-Trap' with cleanout and 17 gage tubing to wall with C.P. cast brass set screw escutcheon.	0.5		NOTE: All exposed supply (hot & cold water) and drain piping shall be insulated to meet ADA requirements. P-Trap and angle valve assemblies shall be covered with molded, anti-microbial Truebro, Inc. 'Lav-Guard' Model #102 (verify exact model required). Color Grey. Cover shall be secured with snap-clips. Angle stops shall have lock-lid access covers.
	Kohler	K-2032	Greenwich™ wall-mount lavatory, vitreous china with back, rectangular basin, front overflow, 4 inch centers, self-draining deck, 20-3/4 inch by 18-1/4 inch nominal dimensions	Yes	Sloan Optima sensor operated faucet, Model ETF-600, 0.5 gpm aerator, McGuire 155-A grid drain, perforated strainer and 1-1/4" tailpiece. Provide model EAF-37 transformer- 120VAC/6VDC (one transformer to serve up to 10 lavs)- locate box above ceiling.	McGuire H2167LK, 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, C.P. brass nipple to wall.	McGuire 8872, 1-1/4 inch, polished chrome plated cast brass adjustable 'P-Trap' with cleanout and 17 gage tubing to wall with C.P. cast brass set screw escutcheon.	0.5	carrier having steel uprights with adjustable headers, concealed arms	NOTE: All exposed supply (hot & cold water) and drain piping shall be insulated to meet ADA requirements. P-Trap and angle valve assemblies shall be covered with molded, anti-microbial Truebro, Inc. 'Lav-Guard' Model #102 (verify exact model required). Color Grey. Cover shall be secured with snap-clips. Angle stops shall have lock-lid access covers.
	Just	SL-2019-A-GR	20 inch by 19 inch by 7-1/2 inch, single compartment, 18 gage type 304 (18-8) stainless steel, self-rimming, hand blended satin finish, underside coated, compartment and faucet deck recessed 3/16 inch below outside of sink; J-35 stainless steel cup strainer and 1-1/2 inch O.D. stainless steel tailpiece 4 inches long			McGuire H2167LK, 1/2 inch IPS heavy cast brass angle stop, loose key handle, annealed vertical tube, chrome plated cast brass set screw escutcheon, C.P. brass nipple to wall.	McGuire 8912, 1-1/2 inch, polished chrome plated cast brass adjustable 'P-Trap' with cleanout and 17 gage tubing to wall with C.P. cast brass set screw escutcheon.		Counter Mounted	
			Site Built Shower- See Architectural Drawings.	No.	Powers 'HydroPanel II' model 450-4213E Surface Mounted Shower. Housing shall be 18 gauge, Type 304 Stainless Steel with Satin Finish. Pressure Balancing Mixing Valve, Top Supply, 2.0 GPM Flow Control, Lever Handle. Shower head is solid brass, triple chrome plated with adustable spray from coarse stream to a fine mist. Provide Zurn Z-415S-CP, 5"x5" Cast Iron Showe Floor Drain with Chrome Plated Top.			2.0	Wall Mounted	
			Site Built Shower- See Architectural Drawings.	Yes	Powers 'HydroPanel II' model 450-4105E Surface Mounted ADA Compliant Shower. Housing shall be 18 gauge, Type 304 Stainless Steel with Satin Finish. Pressure Balancing Mixing Valve, Rear Supply, 2.0 GPM Flow Control, ADA Compliant Lever Handle. Hand Shower on 5' metal hose and fixed head. Provide Zurn Z-415S-CP, 5"x5" Cast Iron Shower Floor Drain with Chrome Plated Top.	ESPONDED CONTROL AND DESCRIPTION OF HEADY SPECIAL SECTION OF A SECTION		2.0	Wall Mounted	
	Stern Williams	\$B-900	Terrazo one-piece service sink, 24"x24"x12", one piece stainless steel cap, mop hanger, hose and wall bracket, 'BP' stainless steel back splash panels		Chicago model 897-CP faucet, Polished chrome finish, 2-3-8 inch lever handles, 3/4 inch male threaded outlet, integral stops, top brace		Cast Iron (3 inch size), deep seal type (Below Floor)		Floor Mounted	
IF	PS Corporation	FB-200	'Guy Gray' Recessed steel box with hot & cold water stops and 2" drain opening for washing machine connection. Rough-in and final connect all washing machines as required by equipment manufacturer.							
	Kohler	K-4406	Wellworth® 1.28 flushometer bowl, vitreous china, siphon jet, 12 inch rough-in, elongated rim, 1-1/2 inch top spud bowl	No.	Sloan Optima Sensor Operated flush valve with true mechanical override, model 115-1.28-ES-S-TMO (1.28 gpf). Provide model EL-154 transformer-120VAC/24Vac (one transformer to serve up to 10 water closets), wall flange, set screw. Centoco #1500STSCCSS 'Commercial-Institutional', white finish, extra heavy duty palstic, open front with concealed check hinge, self sustaining feature and stainless steel post.	g	Integral with Fixture	1.28gp		
2	Kohler	K-4405	Highline® 1.28 flushometer bowl, vitreous china, siphon jet, 12 inch rough-in, elongated rim, 1-1/2 inch top spud bowl	Yes	Sloan Optima Sensor Operated flush valve with true mechanical override, model 111-1.28-ES-S-TMO (1.28 gpf). Provide model EL-154 transformer-120VAC/24Vac (one transformer to serve up to 10 water closets), wall flange, set screw. Centoco #1500STSCCSS 'Commercial-Institutional', white finish, extra heavy duty palstic, open front with concealed check hinge, self sustaining feature and stainless steel post.	g	Integral with Fixture	1.28gp	f Floor Mounted	NOTE: ADA law for product operation and location. Rim of fixture is 17-1/2 inches above fihish floor.

NOTE: Equipment (By Others): Rough-in and make final connections for equipment as indicated on plans. Furnish EBC, McGuire, or Kohler straight stop (1/2 inch IPS) or female inlet and outlet and polished chrome plated cast brass; Kohler K-8998 (1-1/4 inch) or K-9000 (1-1/2 inch), McGuire, or EBC polished chrome plated cast brass adjustable ground joint swivel pattern with cleanout and other trim as specified on plans. All exposed piping shall be chrome plated and escutcheons shall be C.P. cast brass set screw type.

		PLUMBING EQUIPMENT SCHEDULE	
Type Mark	Manufacturer	Model Description	Comments
:T-1 A	Amtrol	ST-20V-C Expansion Tank - 20 Gallon Capacity (min.)	Coordinate location with ductwork in Mechanical Room. See HVAC drawings.
HWC-1 E	Bell & Gossett	PR-1 In-Line Building Circulator Pump- All Bronze, 1/6 HP, 125 max working pressure, in-line centrifugal type with bronze body, brass impeller, carbon seals, flexible coupling flanged connections, quite operation, and ring mounted motor. Operated by in-line aquastat.	Coordinate power requirements with Electrical Contractor.
PZ-1 V	Watts	LF909M1-QT-S Lead Free Reduced Pressure Zone Backflow Assembly, 2" Size, with strainer, Qurter Turn valves, and brass funnel. Bracket backflow to wall or floor with 2x2x1/4 painted angle iron frame- mount 18" A.F.F Field Coordinate best location- Route discharge piping (copper) to Floor Drain as required.	Coordinate water entrance and RPZ location with ductwork in Mechanical Room. See HVAC Drawings.
WH-1	A. O. Smith	DVE-120-9 Commercial Electric Water Heater- Heater shall be rated at 9.0 KW, 480 V, Three Phase, 60 cycle AC, and listed by Underwriters Laboratories. Heater shall have a maximum working pressure of 150 psi. A nominal storage tank capacity of 120 gallons with a separate 3/4" tapping for relief valve installation and be equipped with extruded high density magnesium anode, internal surfaces exposed to water shall be glass lined, outer jacket of baked emamel finish provided with full size control compartment for performance and maintenance through hinged front panels and tank enclosed with foam insulation. Elements shall be medium watt density with zinc plated copper sheath, controlled by individually mounted thermostat and high temperature cut off switch. Tank shall be 120 gallon capacity, brass drain valve with wheel handle, and A.W. Cash Valve Mfg. Corp., A.S.M.E. temperature and pressure relief valve. Units shall have manufacturer's three year warranty and shall meet the requirements of ASHRAE 90-A for energy efficiency. Fully illustrated instruction manual to be included.	Coordinate power requirements with Electrical Contractor.

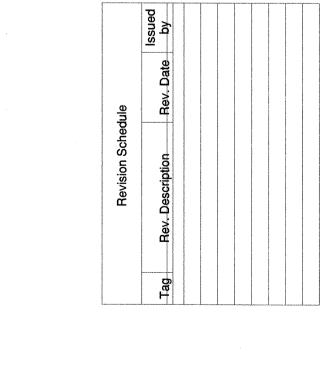
			PLUMBING DRAIN SCHEDULE	
TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	COMMENTS
FD-1	Wade		Cast Iron Floor Drain with Flange, Integral Reversible Clamping Collar, Seepage Openings, 1/2" Trap Primer Tap, 7" Diameter Nickel Bronze Strainer and Vandal Proof Screws. Note: All floor drains shall be accessorized for vandal proof installation and shall have trap primers.	Typical Drain for Tlt Rooms and Shower Drying Areas. Verify exact locations with Architectural Drawings.
FD-2	Wade		Cast Iron 12"X12"X10" Square Floor Sink with 10" Sump, A.R.E. Interior, Aluminum Dome Strainer and 3/4" Nickel Bronze Hinged Top. Note: All floor sinks shall be accessorized for vandal proof installation and shall have trap primers.	Locate in Mechanical Room. Coordinate exact locations with equip, suppliers.
FD-3	Wade	9110-TY-1-5-6	Cast Iron 8"X8"X6" Square Floor Sink with 6" Sump, A.R.E. Interior, Aluminum Dome Strainer and Nickel Bronze Hinged Top. Note: All floor sinks shall be accessorized for vandal proof installation and shall have trap primers.	Locate in Laundry Room. Verify exact location with Arch. Dwgs
FD-4	Wade	1100-ER	Cast Iron Floor Drain with Flange, Integral Reversible Clamping Collar, Seepage Openings, 1/2" Trap Primer Tap, 7" Diameter Recessed Nickel Bronze Strainer and Vandal Proof Screws. Note: All floor drains shall be accessorized for vandal proof installation and shall have trap primers.	Locate at Ice Maker. Verify exact location with Equip. Supplier.

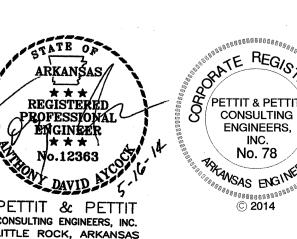


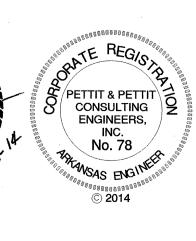
PETTIT & PETTIT CONSULTING ENGINEERS, INC.
No. 78

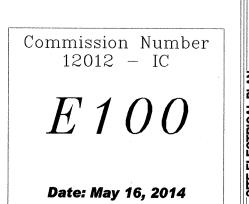
Commission 12012

OVERALL SITE ELECTRICAL PLAN
SCALE: 1" = 20'-0"









- A. CIRCUITS OF DIFFERENT PHASES MAY SHARE EQUIPMENT GROUNDING CONDUCTOR. THE GROUNDING CONDUCTOR SHALL NOT BE LESS THAN #12 AWG.
- B. ALL CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID COPPER THHN/THWN. ALL CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- C. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG, AND MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED
- D. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE, NFPA 70.
- E. ALL ELECTRICAL EQUIPMENT (CONDUIT, BOXES, SUPPORTS, ETC.) INSTALLED IN EXPOSED CEILING AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT.
- F. THE ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH MECHANICAL AND PLUMBING CONTRACTORS FOR EXACT LOCATION OF HVAC AND PLUMBING EQUIPMENT.
- G. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED.
- H. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CIRCUIT CONDUCTOR SIZE AND OVERCURRENT PROTECTION WITH ACTUAL EQUIPMENT PROVIDED.
- COMPRESSION FITTING SHALL BE USED ON ALL EMT CONDUITS. SET SCREW TYPE FITTINGS ARE NOT
- J. FLEXIBLE CONNECTIONS AT EQUIPMENT AND TRANSFORMERS SHALL BE 6'-0" MAX.
- K. PROVIDE FIRE PROOFING FOR ALL PENETRATIONS THROUGH RATED FIRE WALLS.
- L. ALL DEVICES SHALL BE RATED FOR 20A MINIMUM. 15A DEVICES ARE NOT ACCEPTABLE.
- M. PROVIDE PULL STRING AND PROTECTIVE BUSHINGS IN ALL SPARE CONDUITS.

GFI/ACO

O. PROVIDE POWER TO BUILDING AUTOMATION PANEL. REFER TO MECHANICAL PLANS FOR EXACT LOCATION.

FIRE/SMOKE DAMPER REFER TO MECH.

LIGHTING GENERAL NOTES

- A. FOR ALL INTERIOR LIGHTING CIRCUITS, MINIMUM WIRE SIZE SHALL BE #12 AWG AND MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. FOR ALL UNDERGROUND SITE LIGHTING CIRCUITS, MINIMUM WIRE SIZE SHALL BE #10 AWG AND MINIMUM CONDUIT SIZE SHALL BE 1" UNLESS NOTED OTHERWISE.
- B. AN UNSWITCHED HOT CONDUCTOR SHALL BE RUN TO ALL LIGHTING FIXTURES EQUIPPED WITH SELF-CONTAINED EMERGENCY BATTERY PACKS. LAMPS SHALL BE SWITCHED, BATTERY BACKS SHALL BE UNSWITCHED.
- C. POWER ALL EXIT AND EMERGENCY FIXTURES FROM AN UNSWITCHED CIRCUIT SERVING THE SAME SPACE.
- D. FIELD ADJUST THE EXACT LOCATION OF ALL LIGHTING FIXTURES SHOWN CHAIN HUNG IN ELECTRICAL, MECHANICAL, AND SERVICES SPACES AS REQUIRED TO AVOID CONFLICTS WITH EXPOSED EQUIPMENT, DUCTWORK, PIPING, ETC. DO NOT ATTACH CHAINS OR MOUNT FIXTURES TO DUCTWORK OR PIPING.
- E. FIELD VERIFY THE EXACT LOCATION AND ELEVATION OF ALL WALL MOUNTED FIXTURES AND DEVICES.

G. LAMPING FOR ALL FIXTURES SHALL BE 3500K COLOR UNLESS NOTED OTHERWISE.

F. PROVIDE A FLEXIBLE TYPE MC CABLE WHIP TO EACH LAY-IN LIGHTING FIXTURE. WHIPS SHALL NOT EXCEED 6'-0" IN

CEILING PLAN - LIGHTING

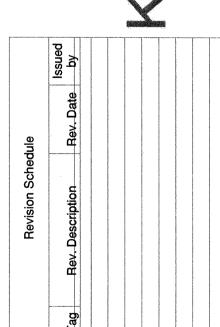
- PROVIDE 2EA. 1" SPARE CONDUITS BETWEEN PANEL 'MDP' AND THE LIGHTING CONTROL PANEL 'LCP' AND 2EA. 1" SPARE CONDUITS FROM PANEL 'LCP' STUBBED 5' OUTSIDE OF THE BUILDING FOR FUTURE SITE LIGHTING CIRCUITS.
- PROVIDE A MINIMUM OF 5 LED TRACK LIGHTING HEADS TO ILLUMINATE RED WOLF SIGNAGE. COORDINATE EXACT SPACING AND AIMING WITH THE OWNER.
- PROVIDE CIRCUIT TO ABOVE CEILING JUNCTION BOX FOR HARD WIRED AUTOMATIC FLUSH VALVES AND FAUCETS AT EACH RESTROOM. REFER TO PLUMBING.
- TYPE 'G' LIGHTING FIXTURES SHALL BE MOUNTED ON TOP OF THE CEILING ABOVE THE LOCKERS, POINTED UP TOWARDS THE STRUCTURE. REFER TO ARCHITECTURAL SECTIONS FOR FIXTURE LOCATION.
- PROVIDE POWER TO A CONCEALED JUNCTION BOX ABOVE DOOR FOR OWNER PROVIDED ACCESS CONTROL EQUIPMENT. REFER TO ACCESS CONTROL DETAIL.

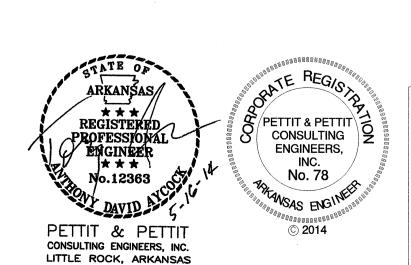
POWER & LIGHTING KEYED NOTES

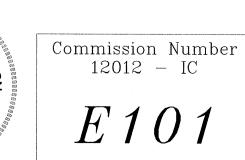


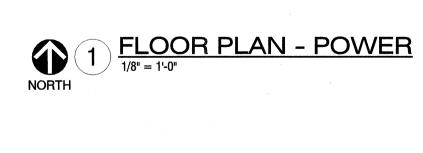
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SYSTEMS GENERAL NOTES

- A. ALL NETWORK CABLE SHALL BE CAT6. TELEVISION COAX CABLE SHALL BE RG6. ALL CABLING SHALL BE PLENUM RATED. COORDINATE CABLE COLOR WITH OWNER.
- B. COORDINATE THE EXACT LOCATION OF NETWORK DROPS WITH THE OWNER. COORDINATE LOCATION OF DATA DROPS WITH ELECTRICAL OUTLETS. PROVIDE 1" SEPARATION BETWEEN POWER AND DATA OUTLETS.
- C. COORDINATE THE EXACT LOCATION OF EACH TELEVISION OUTLET WITH EQUIPMENT PROVIDED. TELEVISION OUTLETS SHALL BE FULLY HIDDEN BEHIND TV.
- D. PROVIDE BONDING JUMPERS BETWEEN ALL EQUIPMENT, CONDUITS, AND CABLE TRAYS.
- THE EXACT LOCATION OF ALL SECURITY DEVICES (CAMERAS, CARD READERS, KEYPADS, MOTION SENSORS, ETC) SHALL BE COORDINATED WITH THE OWNER PRIOR TO INSTALLATION.
- COORDINATE TELEPHONE SERVICE ENTRANCE STUB-OUT REQUIREMENTS WITH THE OWNER AND THE LOCAL TELEPHONE UTILITY PRIOR TO INSTALLATION.
- G. PUNCH DOWN BLOCK AND PATCH PANELS SHALL BE A MINIMUM OF 25% SPARE CAPACITY FOR FUTURE USE.

DATA DROP TYP

TV DROP TYP.

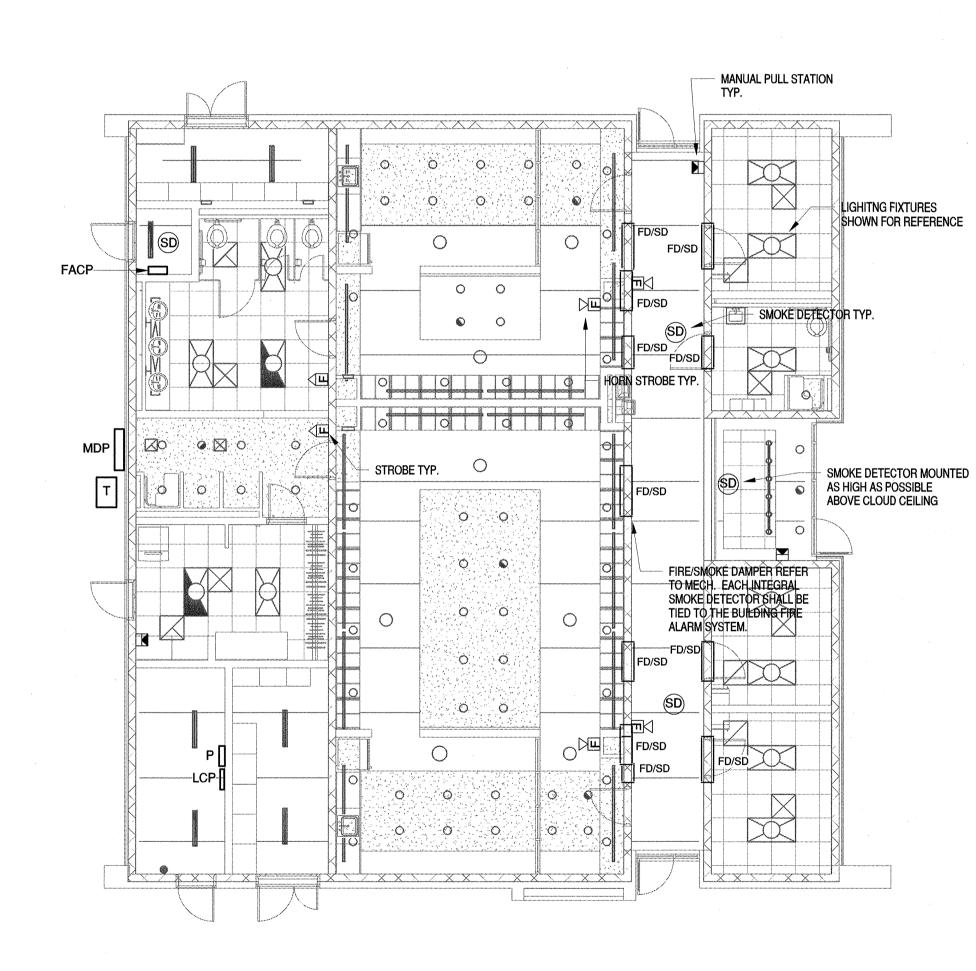
DATA RACK PER CAMPUS STANDARDS

BACK BOARD W/ GROUND BUS FIRE ALARM TELEPHONE LIN

- H. CAT6 DATA CABLE SHALL NOT EXCEED 90M IN LENGTH FROM PATCH PANEL TO OUTLET. FIBER OPTIC CABLE SHALL BE PROVIDED WHERE MAXIMUM LENGTH OF CAT6 CABLE IS EXCEEDED.
- ALL CABLING SHALL BE LABELED AT EACH END AND AT THE FACE COVER OF EACH OUTLET. COORDINATE LABELING WITH THE OWNER.

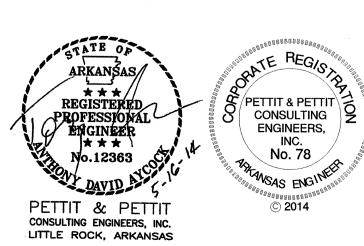
FIRE ALARM GENERAL NOTES

- A. FIRE ALARM SYSTEM SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL FIRE ALARM CODE, NFPA 72.
- B. ONE SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON-SITE AND MADE AVAILABLE TO THE AUTHORITY C. ALL SMOKE DAMPERS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. REFER TO MECHANICAL FOR DAMPER
- D. FINAL FIRE ALARM TESTING SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION.
- E. ALL APPLICABLE PERMITS AND APPROVALS FROM THE AUTHORITY HAVING JURISDICTION AND THE ENGINEER OF RECORD SHALL BE OBTAINED PRIOR TO COMMENCING WORK.
- F. ANY PENETRATIONS MADE THROUGH FIRE RATED PARTITIONS SHALL BE FIRE STOPPED WITH APPROVED U.L.
- G. INTERFACE FIRE ALARM SYSTEM WITH ACCESS CONTROL SYSTEM FOR AUTOMATIC RELEASE OF CARD READER CONTROLLED DOORS UPON ACTIVATION OF FIRE ALARM SYSTEM.





CEILING PLAN - FIRE ALARM NORTH



SYSTEMS & FIRE ALARM KEYED NOTES

STUB OUT 3EA. 4" CONDUITS FROM THE BASE OF THE TELEPHONE COLLECTION BOARD TO A

24"X24" POLYMER CONCRETE HANDHOLE 5'-0" OUTSIDE OF THE BUILDING FOR TELEPHONE,

OF TELECOM HANDHOLE WITH THE OWNER.

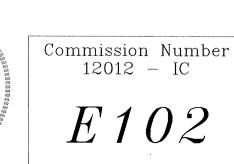
CAMPUS LIGHTING CONTROL SYSTEM.

NETWORK, AND TELEVISION CONNECTION TO BUILDING. COORDINATE THE EXACT LOCATION

PROVIDE NETWORK CONNECTION TO LIGHTING CONTROL PANEL FOR INTEGRATION INTO THE

COORDINATE EXACT HEIGHT AND LOCATION OF ALL TELEVISION OUTLETS WITH EQUIPMENT

PROVIDED. ALL OUTLETS SHALL BE FULLY CONCEALED BEHIND TELEVISIONS.



	LIGI	HTING SYMBOLS
STANDARD	EMERGENCY	
		2X4 LAY-IN FIXTURE
		2X2 LAY-IN FIXTURE
	-E	SLOT OR STRIP TYPE FIXTURE
		SURFACE MOUNT LIGHTING FIXTURE
		FLUORSCENT STRIP TYPE FIXTURE
\bigcirc		DOWNLIGHT
OI	Q I	WALL WASH DOWNLIGHT
2	Q	WALL PACK LIGHTING FIXTURE
4		EMERGENCY LIGHTING FIXTURE
Q	\otimes	EXIT FIXTURE CEILING MOUNT, ARROWS AS INDICATED.
<u> </u>	P	EXIT FIXTURE WALL MOUNT, ARROWS AS INDICATED
	S	SINGLE POLE LIGHTING SWITCH, MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE.
	S _D	SINGLE POLE DIMMER SWITCH, MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE.
	S ₃	THREE WAY LIGHTING SWITCH, MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE
	S ₄	FOUR WAY LIGHTING SWITCH, MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE
	S _{Lv}	LOW VOLTAGE LIGHTING CONTROL STATION, MOUNTED AT 48" A.F.F. UNLESS NOTED OTHERWISE.
	S _{oc}	SINGLE POLE LIGHTING SWITCH WITH INTEGRAL OCCUPANCY SENSOR AT 48" A.F.F. UNLESS NOTED OTHERWISE.
(0	oc)	CEILING MOUNTED, LOW VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR.
	<u>oc</u>	WALL MOUNTED, LOW VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR.
P	P	LIGHTING CONTROL POWER PACK

S	YSTEMS SYMBOLS
•	TELEPHONE BACKBOARD, 24"X48" WITH COPPER GROUNDING BUS AND 110 BLOCKS
	DATA RACK, 19", TWO LEG, FREESTANDING RACK WITH INTEGRAL WIRE MANAGMENT AND POWER STRIP. REFER TO
\checkmark	SPECIFICATIONS. TELEVISION OUTLET, 1EA. RG6 CABLE AND 1EA. CAT6 CABLE WITH CONNECTORS TO EACH LOCATION. @ 66" A.F.F.
	TELEPHONE OUTLET, RJ11 PLUG @ 18" F.F. UNLESS NOTED OTHERWISE
∇	DATA OUTLET, 1EA. CAT6 CABLE WITH CONNECTOR @ 18" A.F.F. UNLESS NOTED OTHERWISE TO EACH LOCATION. REFER TO PLANS FOR NETWORK LOCATIONS WITH MULTIPLE CABLES DESGINATED BY D2, D3, ETC.
w	CEILING MOUNT WIRELESS ACCESS POINT LOCATION. PROVIDE ONE CAT6 CABLE TO EACH LOCATION. COIL 36" SLACK CABLE ABOVE CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT.
CR	WEATHERPROOF COMBINATION CARD READER/KEYPAD LOCATION. PROVIDE FLUSH MOUNTED JUNCTION BOX AT 48" A.F.F.

P	OWER SYMBOLS
S _M	MOTOR RATED TOGGLE SWITCH
b	DUPLEX RECEPTACLE: GFI - GROUND FAULT CIRCUIT INTERUPT @ 48" A.F.F. WP - WEATHERPROOF COVER @ 18" A.F.F. TV - TELEVISION OUTLET @ 66" A.F.F. (COORDINATE EXACT LOCATION WITH TELEVISIONS) AC - MOUNTED 1" ABOVE COUNTERTOP, ~40" A.F.F. REF - REFRIGERATOR RECEPTACLE (DEDICATED CIRCUIT) @ 18" A.F.F. G - GARBAGE DISPOSER, GFI MOUNTED BELOW COUNTER.
#	QUAD RECEPTACLE, MOUNTED @ 18" A.F.F.
	DUPLEX FLOOR RECEPTACLE, MOUNTED @ 18" A.F.F.
	QUAD FLOOR RECEPTACLE
	QUAD FLOOR RECEPTACLE W/ DATA OUTLET. CAT6 NETWORK CABLE TO EACH LOCTION.
⊬⊗	EQUIPMENT OUTLET, REFER TO PLANS FOR VOLTAGE, NEMA CONFIGURATION, MOUNTING HEIGHT, ETC.
112	HOME RUN (TIC MARKS: HOT, NEUTRAL, GROUND)
	HEAVY DUTY SAFETY SWITCH, RERFER TO PLANS FOR NEMA CONFIGURATION, FUSING, ETC.
⊠h	COMBINATION SAFETY SWTICH MOTOR STARTER W/ HAND-OFF-AUTO SWITCH
	ELECTRICAL POWER PANEL
Т	DRY-TYPE TRANSFORMER
	JUNCTION BOX, REFER TO PLANS FOR CIRCUITING REQUIRMENTS.
9	MOTOR LOAD, REFER TO PLANS FOR HP AND ELECTRICAL INFORMATION

FIRE	E ALARM SYMBOLS
FACP	FIRE ALARM CONTROL PANEL
RA	FIRE ALARM REMOTE ANNUNCIATOR PANEL
ZAM	ZONE ADDRESSABLE MODULE
IAM	INDIVIDUAL ADDRESSABLE MODULE
SR	SUPERVISORY RELAY
TS	TAMPER SWITCH
FS	FLOW SWITCH
	FIRE ALARM MANUAL PULL STATION
EΝ	FIRE ALARM AUDIO NOTIFICATION DEVICE
E>	FIRE ALARM AUDIO/VISUAL NOTIFICATIOND DEVICE
(SD)	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM DUCT SMOKE DETECTOR
(H)	FIRE ALARM HEAT DETECTOR



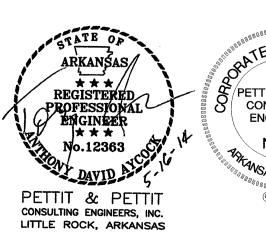
TRANSFORMER

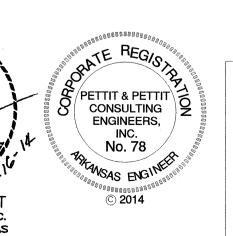


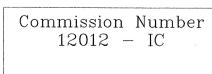
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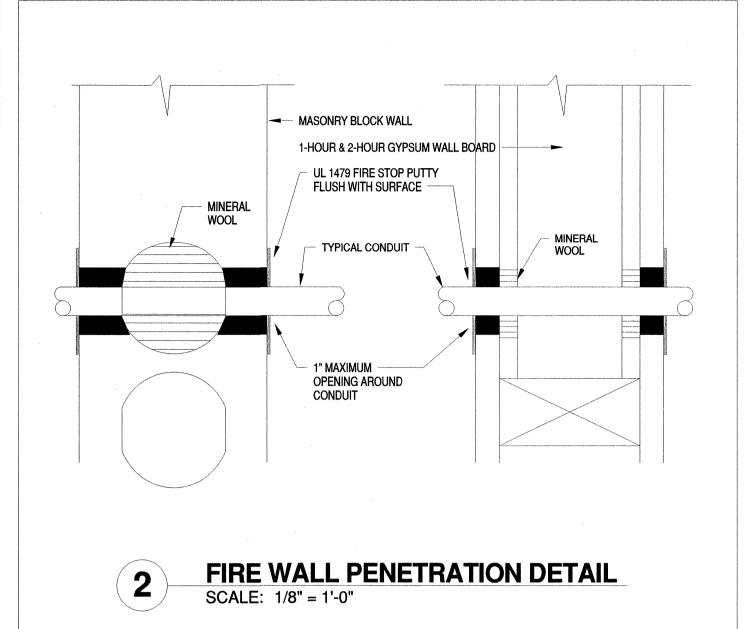
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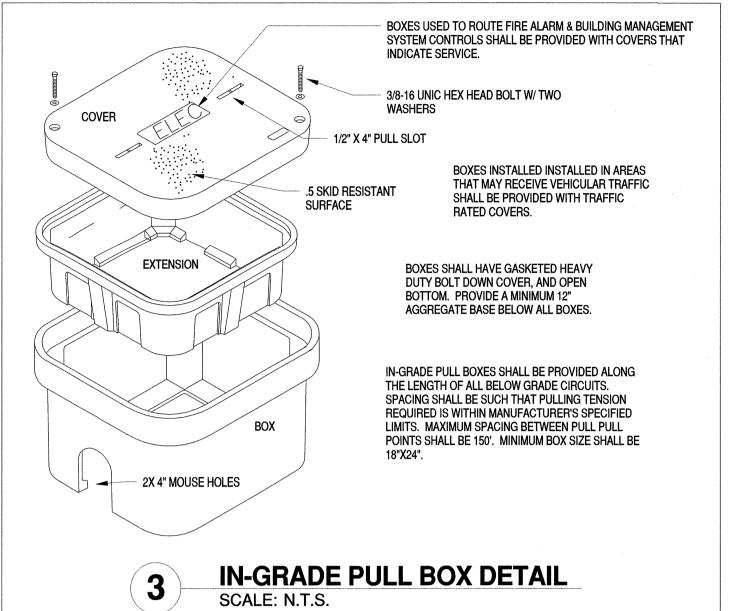
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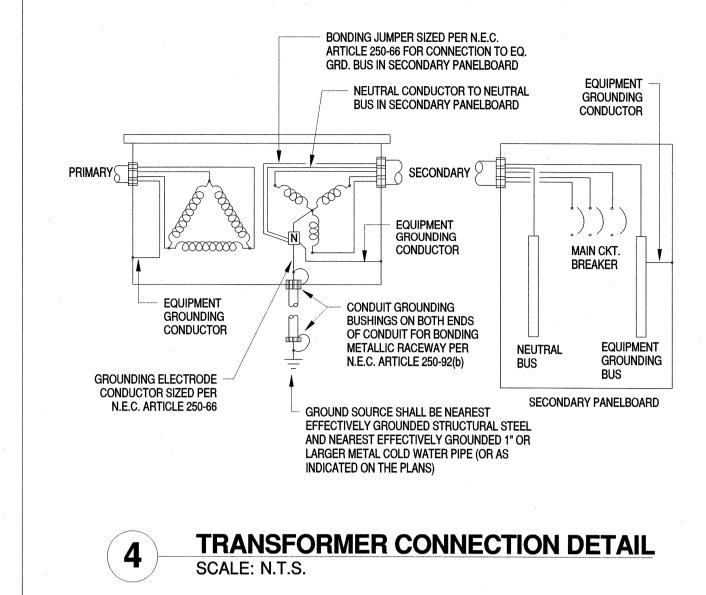


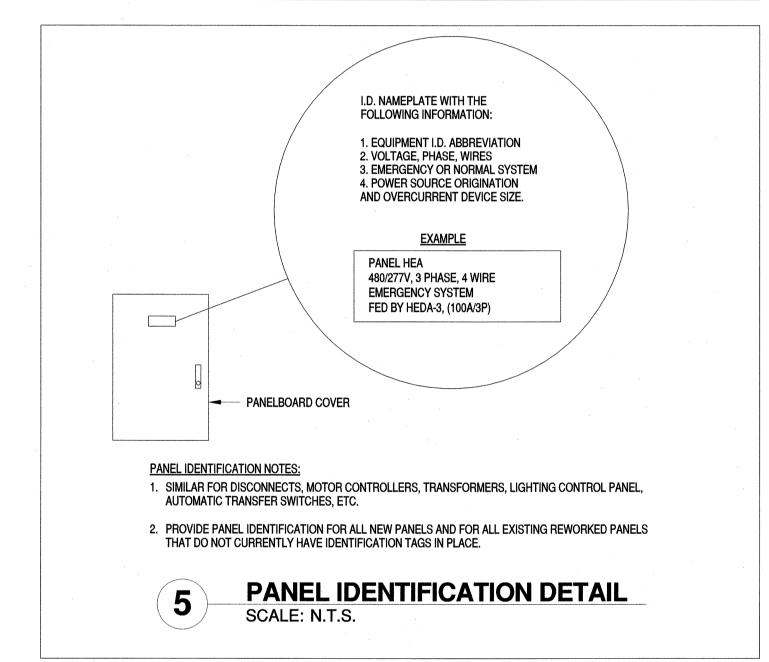


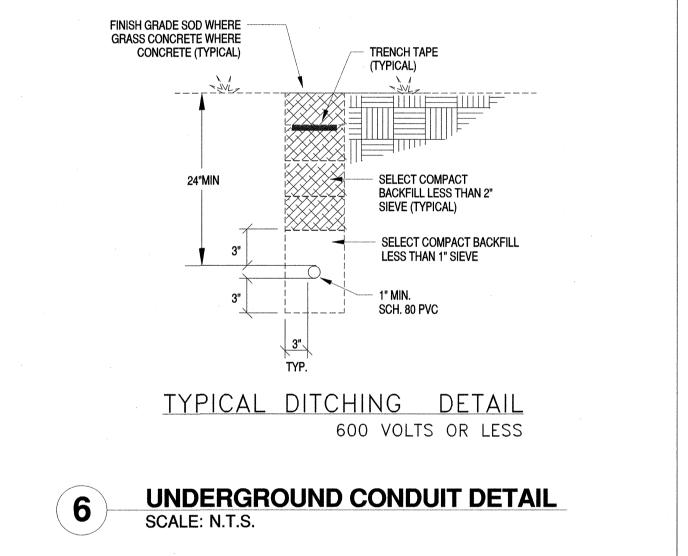


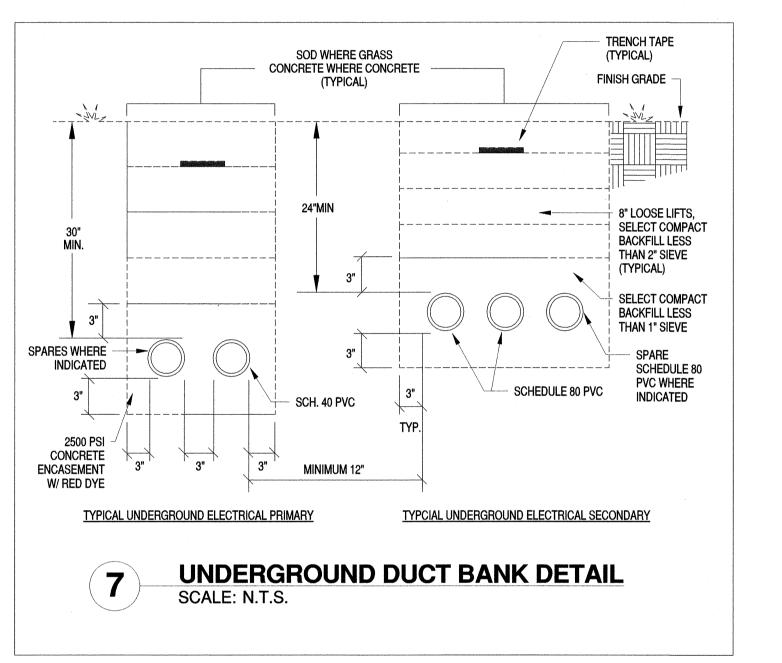


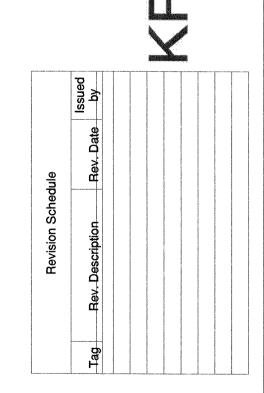










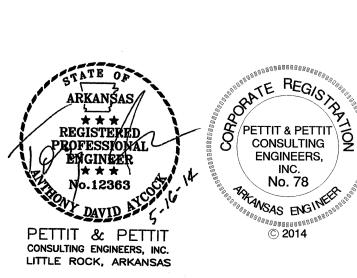


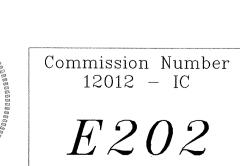
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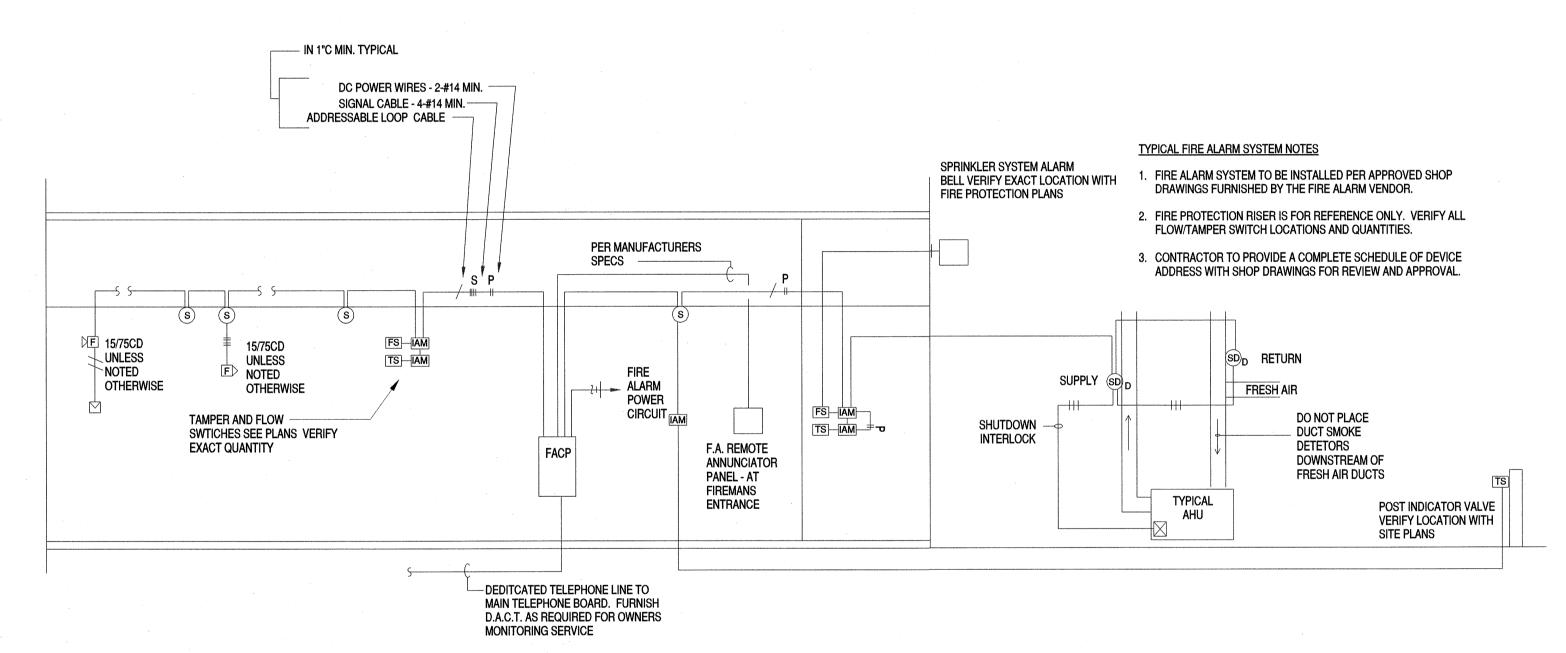
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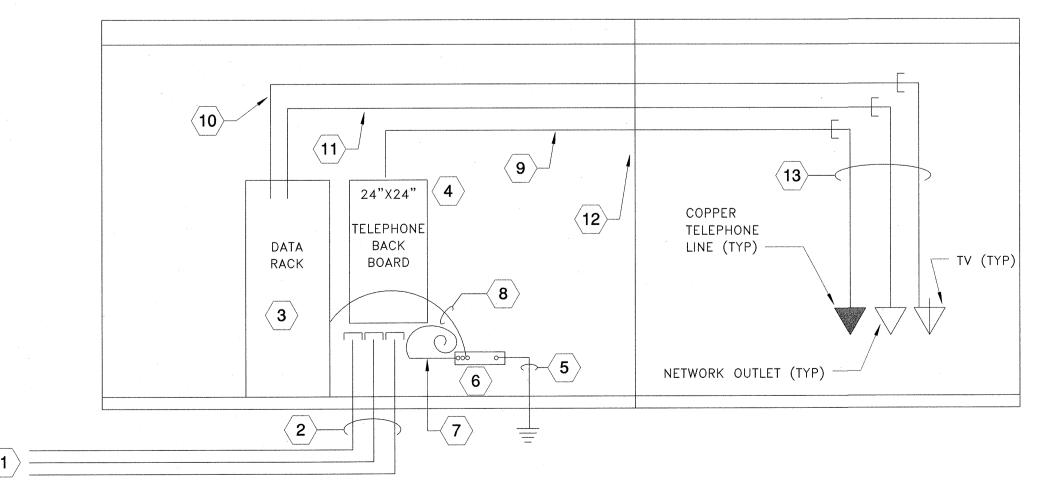


POWER RISER DIAGRAM SCALE: N.T.S.



FIRE ALARM RISER DIAGRAM

DATA RISER DIAGRAM



DATA RISER KEYED NOTES:

- STUB OUT TO QUAZITE HANDHOLE. REFER TO SITE ELECTRICAL PLANS FOR GENERAL LOCATION. VERIFY EXACT LOCATION WITH OWNER.
- 2 > 3EA. 4" CONDUITS, STUB UP TO 12" A.F.F. BELOW THE TELEPHONE BACK BOARD.
- \langle 3 \rangle Data Racks. Refer to division 27 specifications.
- 24"X24" 3/4" PLYWOOD TELEPHONE BACKBOARD PAINTED TO MATCH ROOM.
- #1/0 AWG COPPER GROUNDING CONDUCTOR, BOND TO BUILDING STEEL. ALL CONNECTIONS SHALL BE EXOTHERMIC WELDS.
- 6 > 12"x4"x1/4" COPPER GROUNDING BAR WITH STAND OFF BRACKET.
- 7 > #6 AWG BONDING JUMPER. LEAVE 10' SLACK FOR TELEPHONE EQUIPMENT BONDING
- #6 AWG GROUNDING JUMPER. BOND TO GROUNDING LUG AT EQUIPMENT

ELECTRICAL ROOM FOR CONNECTION TO FUTURE CABLE BOX.

- CAT6 NETWORK CABLE TO EACH TV AND NETWORK DROP LOCATION. REFER TO SYSTEMS
- PLAN FOR NUMBER OF CABLE DROPS AT EACH NETWORK LOCATION.

RG6 COAX CABLE TO EACH TV LOCATION. PROVIDE ENOUGH SLACK CONDUCTOR IN

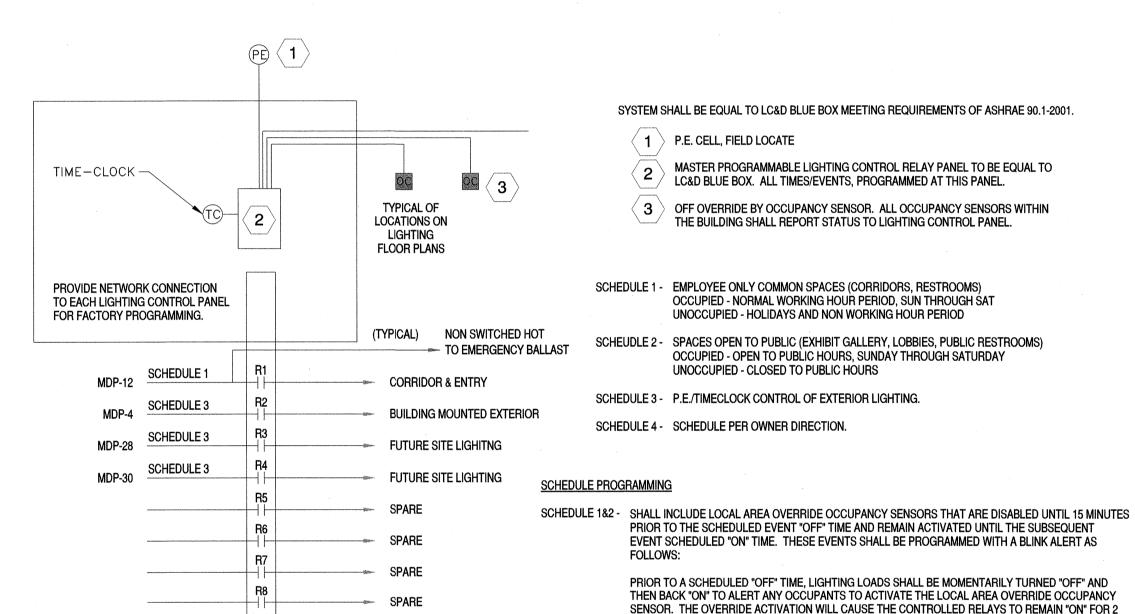
- PROVIDE FIREPROOFING AT ALL FIRE RATED WALL PENETRATIONS. FIREPROOFING SHALL BE A U.L. LISTED ASSEMBLY MEETING OR EXCEEDING FIRE RATING OF WALL.
- \langle 13angle stub down to outlets in 1" conduit.

POWER RISER KEYED NOTES:

- EXISTING PAD MOUNT TRANSFORMER AT FIELD HOUSE. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH NEW SERVICE.
- 2 SOCCER BUILDING SERVICE FEEDER, 3"C-4#4/0AWG

> 200A MAIN DISTRIBUTION PANELBOARD, NEMA 3R

- #2/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR IN 3/4" CONDUIT TO THREE 3/4"X10' COPPER CLAD STEEL GROUNDING RODS SPACED A MINIMUM OF 20' APART. USE EXOTHERMIC WELDS FOR ALL CONNECTIONS BELOW
- 5 > SERVICE ENTRANCE SURGE PROTECTIVE DEVICE IN A NEMA 3R ENCLOSURE FED FROM A 30A/3P CIRCUIT BREAKER WITHIN THE MAIN DISTRIBUTION PANEL. #10 AWG CONDUCTORS BETWEEN BREAKER AND SPD SHALL BE KEPT AS SHORT AND STRAIGHT AS POSSIBLE.
- 6 Transformer 'T' feeder
- TRANSFORMER 'T', 45kVA DRY-TYPE, NEMA 3R, COPPER WOUND WATCHDOG SERIES TRANSFORMER. THE CONTRACTOR SHALL VERIFY THAT THIS NEW TRANSFORMER IS MOUNTED ABOVE THE BASE FLOOD ELEVATION PRIOR TO INSTALLATION. PROVIDE ADDITIONAL FILL AS REQUIRED TO MOUNT NEW TRANSFORMER A MINIMUM OF 12" ABOVE BASE FLOOD ELEVATION.
- 8 > PANEL 'P' FEEDERS, 150A, 2"C-3#1/0,1#1/0(N),1#6(G)
- 9 > PANEL 'P', 150A MAIN CIRCUIT BREAKER, NEMA 1, PANELBOARD
- LIGHTING CONTROL PANEL 'LCP', PROVIDE A MINIMUM OF 2EA SPARE 1" CONDUITS FROM THIS LIGHTING CONTROL PANEL TO PANEL MDP' AND FROM THIS PANEL STUBBED OUT 5' FROM BUILDING FOR FUTURE SITE LIGHTING
- \langle $f 1\, f 1$ angle new overpass lighting feeder, 1-1/4" conduit with existing #3AWG conductors.
- 12 INTERCEPT EXISTING OVERPASS LIGHTING CIRCUIT AT THE LOCATION INDICATED ON THE SITE ELECTRICAL PLAN $^{'}$ and provided a New 24"x24" Handhole. Pull existing Feeder conductors back to this location from the MAIN TRANSFORMER LOCATED AT THE FIELD HOUSE. PULL EXISTING FEEDER CONDUCTORS BACK TO NEW PANEL 'MDP' IN NEW CONDUIT AS INDICATED. THE CONTRACTOR SHALL PROTECT THESE EXISTING CONDUCTORS DURING INSTALLATION. IF THE EXISTING CONDUCTORS ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THE ENTIRE RUN
- $\langle {f 13}
 angle$ existing conduit and conductors to overpass lighting panel



* COLOR BY ARCHITECT * DO NOT SWITCH THE HOT TO EMERGENCY BALLASTS.

LIGHTING CONTROLS SYSTEM SHALL BE PROVIDED AS A COMPLETE AND OPERATIVE SYSTEM. ALL CABLING. MODULES, RELAYS, POWER SUPPLIES, ETC. SHALL BE

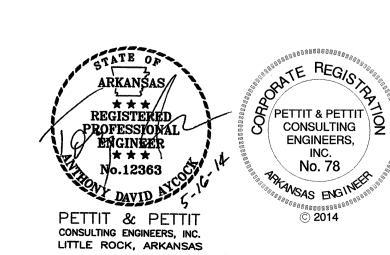
PROVIDED AS PART OF THE BASE BID.

HOURS BEFORE THE BLINK ALERT IS ISSUED AGAIN. THIS PROCESS MAY BE INITIATED DURING ANY

OCCUPANCY SENSORS IN OFFICES SHALL OVERRIDE THE SCHEDULED "OFF" TIME IN ALL COMMON PHOTOELECTRIC CELL SYSTEM ON/OFF @ 5FC, TIMECLOCK OFF FOR OWNER DIRECTED DURATION.

DO NOT BLINK ALERT WITH EVENT 1&2.

LIGHTING RELAY PANEL RISER DIAGRAM





UNIVERSIT :ACILI

Commission Number 12012 - IC

E301

REDUCTION OF THE VIEW OF STATE

Panelboard: MDP			V	OLTAGE: 4	80/277 Wye	COPPER BUS RATING:			250 A		MAINS TYPE:		
LOCATION: EXTERIOR WALL			PHASE: 3			GROUND BUS:			Yes		MCB RATING:		
	MOUNTING: SU				WIRES: 4			MINIMUM A.I.C. RATING:			FED FROM:		
	ENCLOSURE:	NE	MA 3R	MFR. AN	ID TYPE:	SQUARE D NF		SUBFEE	D LUGS:		NEU	TRAL RATING:	100.00%
Circuit lumber	Load Name	WIRE	BRKR			1	B Section 1	(;	BRKR	WIRE	Load Nam	e Circui Numbe
1	TRANSFORMER 'T'	4	70A/3P	14894 VA	3614 VA					20A/1P	12	LGTS - INTER	RIOR 2
3		**	-			15527 VA	280 VA			20A/1P	12	LGTS - EXTER	RIOR 4
5		, •	-					13668 VA	3000 V	A 20A/3P	12	WH-1	6
7	WH-1	12	20A/3P	3000 VA	3000 VA					- .	-		8
9	M PA	-	-			3000 VA	3000 VA			-	-	90 No.	10
11		***						3000 VA	1607 V	A 20A/1P	12	LGTS - INTEF	RIOR 12
13	AC-1	6	60A/3P	14958 VA	0 VA							Space	14
15		-				14958 VA	0 VA					Space	16
17	64 M	**	-					14958 VA	0 VA	д на били в на при		Space	18
19	EXISTING PANEL 'HPS'	3	70A/3P	1850 VA	0 VA							Space	20
21		-	***			3885 VA	0 VA				and manufactures and a grown angel of describe a selections in the delicities.	Space	22
23	*	•						3145 VA	0 VA		and provided and account of the second and the seco	Space	24
25	SPD	10	30A/3P	0 VA	0 VA							Space	26
27	-	-				0 VA	0 VA			20A/2P		LGTS - FUTL	JRE 28
29	CONTRACTOR	-	-					0 VA	0 VA	-	-	LGTS - FUTU	JRE 30
***************************************	Total Load:		and the second s	41315 VA	**************************************	40650 VA		39378 VA			н Англия в него и от серо на почени	ander di karini, i Prisidentesa di umradaren talan i derbe bi artikal radioarenda biarrette berarrette der der	
	Total Amps:			150 A		147 A		142 A					
Loa	d Classification		cted Load		Demand Fa			ated Demand	1	Panel T			
Lighting					125.00%			004 VA	Total Conne				
Receptacles		10920 VA			95.79%				Total Carra		1	7019 VA	
	HVAC	67986 VA 7574 VA		100.009		1		10460 VA		Total Connected Current: Total Est. Demand Current:			146 A
	Power				100.00%						iana Curr	ent:	153 A
	Other Motor		252 VA 660 VA		125.00% 125.00%		12815 VA 13200 VA						

Panelboard:		Р		VOLTAGE:		120/208 Wye	COPPER BUS RATING:		225 A	·	MAINS TYPE:		В		
	LOCATION:		HANICAL ROOM		PHASE:	3		GROU	IND BUS:	Yes	N	ICB RATING:	22!	5A	
MOUNTING:		SURFACE		WIRES:		4	MINIMUM A.I.C. RATING:			10K		FED FROM:	Т		
	ENCLOSURE:	Т	ype 1	MFR. AN	ND TYPE:	SQUARE D NQ		SUBFEE	D LUGS:		NEUT	RAL RATING:	100.0	00%	
Circuit Number	Load Name	WIRE	BRKR		A		В		C	BRKR	WIRE	Load Nam	е	Circu Numb	
1	RCPT - OFFICE	12	20A/1P	1220 VA	1220 VA					20A/1P	12	RCPT - OFFI	CE	2	
3	RCPT - OFFICE	12	20A/1P			1220 VA	1220 VA			20A/1P	12	RCPT - CORRI	IDOR	4	
5	RCPT - LOCKER ROOM	12	20A/1P					720 VA	900 VA	20A/1P	12 I	RCPT - LOCKER	ROOM	6	
7	RCPT - RESTROOMS	12	20A/1P	540 VA	540 VA					20A/1P	12	RCPT - EXTER	RIOR	8	
9	RCPT - TV	12	20A/1P			1040 VA	1040 VA			20A/1P	12	RCPT - TV	/	10	
11	REFRIGERATOR	12	20A/1P					1000 VA	1000 V	4 20A/1P	12	REFRIGERAT	TOR	12	
13	WATER COOLER	12	20A/1P	454 VA	720 VA					20A/1P	12	RCPT - MIS	SC .	14	
15	RCPT - IT	12	20A/1P			720 VA	1000 VA			20A/1P	12	ICE MAKE	R	16	
17	WASHER	12	20A/1P					500 VA	500 VA	30A/2P	10	DRYER	TO THE PROPERTY OF A SECURE AND	18	
19	FACP	12	20A/1P	500 VA	500 VA					-	-			20	
21	EF-1	12	20A/1P			32 VA	25 VA			20A/1P	12	LIGHTING PANE	L 'LCP'	22	
23	FLUSH VALVES	12	20A/1P					1000 VA	2496 V	4 30A/2P	10	HP-1	Marchine dell'Annie des des récordes participates estès à la	24	
25	HWC-1	12	20A/1P	120 VA	2496 VA					-			BAR VAN CHRYSIANT BURNES AND	26	
27	ACCESS CONTROL	12	20A/1P			900 VA	100 VA			20A/1P	10	EMERGENCY P	HONE	28	
29	MSCU-1 & MS-1	12	15A/2P					832 VA	500 VA	20A/1P	12	BAS PANE		30	
31		**		832 VA	5280 VA					45A/2P	6	AHU-1		32	
33	AHU-1	10	30A/2P			3120 VA	5280 VA			-	-			34	
35		ACTE POTENCIA DE COMPANIO DE LA COMPANIO DE						3120 VA	1100 V	4 20A/1P	12	FD/SD	hide chills a malachi masha mayor yorgi ayin, g	36	
37	RCPT	12	20A/1P	540 VA	0 VA					20A/1P		Spare		38	
39	Spare	CHANGE STATE SERVICE OF PARTICIPATION OF STATE	20A/1P			0 VA	0 VA			20A/1P	AND THE REAL PROPERTY OF THE P	Spare	THE COLUMN TWO IS NOT THE PARTY OF THE PARTY	40	
41	Spare		20A/1P					0 VA	0 VA	20A/1P		Spare	**************************************	42	
	Total Load:			14962 VA	OR COURT COOLINGER CONTROL SECTION CO.	15697 VA	ARTHUR COCKET ANTENNA COCKET DE COCK	13668 VA	An economic control of the control o		Later	THE PERSONNEL FOR A PRINCIPLE SECTION AS THE BEST OF THE SECTION OF THE SECTION AND A SECTION AND ASSESSMENT OF THE SECTION AS A SECTION ASSESSMENT OF THE SECTION AS A SECTION ASSESSMENT OF THE SECTION AS A SECTION AS A SECTION ASSESSMENT OF THE SECTION AS A SECTIO	darih suda bia saba sabikan mpe yanyunyay yaye yayey		
	Total Amps:			126 A		132 A		114 A							
Loa	d Classification		cted Load		Demand I			ted Demand	l	Panel To					
Lighting		0 VA		0.00%		0 VA			nected Loa		802 VA				
Receptacles		Receptacles 10920 VA HVAC 5112 VA		95.79%			10460 VA 10460 VA			Total Estima Total Connec		1	48366 VA		
			Power 7574 VA			100.00% 100.00%						and Currer	1	122 A 134 A	
	Other		36 VA		125.00			920 VA	-						
	Motor	10560 VA			125.00%		13200 VA								

TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	LAMP	ELECTRICAL DAT
Α	LITHONIA	2TL4-46L-FW-A12-D50-LP835	2X4 LED TROFFER	LED	277 V/1-50 VA
B1	GOTHAM	EVO-35/-14-GWR-MD	6" LED DOWNLIGHT	LED	277 V/1-25 VA
B2	GOTHAM	EVO-35/-14-6DFR	6" LED SHOWER DOWNLIGHT	LED	277 V/1-25 VA
В3	GOTHAM	EVO-LW-35/-14-GWR-LD	6" LED WALL WASH	LED	277 V/1-28 VA
С	LITHONIA	C-232-MVOLT	2 LAMP FLUORESCENT STRIP	2EA T8	277 V/1-64 VA
D	LITHONIA	DWXW1LED-10C-1000-30K-MVOLT-PE	LED WALL PACK	LED	277 V/1-40 VA
F	PEERLESS	RD4M4-W20/20-R8-120-EZB-1SE-SCT-LP835-F2/48	8' LED PENDENT FIXTURE	LED	277 V/1-80 VA
G	LITHONIA	TZZL1N L96 6000LM FST MVOLT 35K	96" LINEAR LED FIXTURE	LED	277 V/1-62 VA
Н	LITHONIA	LT SERIES	LT SERIES LIGHTING TRACK	LED	277 V/1-600 VA
	LITHONIA	WL4-41L-D43-LP835	4' LED WALL MOUNT	LED	277 V/1-43 VA
X1	LITHONIA	LRP SERIES	EDGE LIT EXIT SIGN	LED	277 V/1-5 VA
X2	LITHONIA	LRP SERIES	EDGE LIT EXIT SIGN	LED	277 V/1-5 VA

Mark	Equipment Description	Voltage	Poles	Conduit	Disconnect	Electrical Comments
A/C-1	PACKAGED UNIT	480 V	3	1"	60A/3P, NON-FUSIBLE, NEMA 3R	
AHU-1	AIR HANDLER	208 V	2	3/4"	INTEGRAL TO UNIT	EQUIPMENT POWERED BY TWO SEPARATE CIRCUITS. PROVIDE SEPARATE CONDUITS FOR EACH.
EF-1	EXHAUST FAN	120 V	1	3/4"	MOTOR RATED TOGGLE	COORDINATE LOCATION OF WALL SWITCH WITH OWNER
HP-1	HEAT PUMP	208 V	2	3/4"	30A/2P, NON-FUSIBLE, NEMA 3R	
HWC-1	HOT WATER CIRCUILATOR	120 V	1	3/4"	MOTOR RATED TOGGLE	
MS-1	MINI SPLIT INDOOR UNIT	208 V	2	3/4"		POWERED FROM OUTDOOR UNIT
MSCU-1	MINI SPLIT CONDENSER UNIT	208 V	2	3/4"	30A/2P, NON-FUSIBLE, NEMA 3R	
WH-1	WATER HEATER	480 V	3	3/4"	30A/3P, NON-FUSIBLE, NEMA 1	
WH-1	WATER HEATER	480 V	3	3/4"	30A/3P. NON-FUSIBLE. NEMA 1	

