

ARKANSAS STATE UNIVERSITY SOCCER & TENNIS FACILITY



ARKANSAS STATE
UNIVERSITY

Jonesboro, Arkansas

CONSTRUCTION DOCUMENTS

Date: May 16, 2014



CIVIL ENGINEER
ASSOCIATED ENGINEERING
103 S Church St.
Jonesboro, AR 72401
870.932.3594
www.associatedengineering.com

STRUCTURAL ENGINEER
ENGINEERING CONSULTANTS, INC.
401 W. Capitol Ave. Suite 305
Little Rock, AR 72201
501.376.3752
www.eclair.com

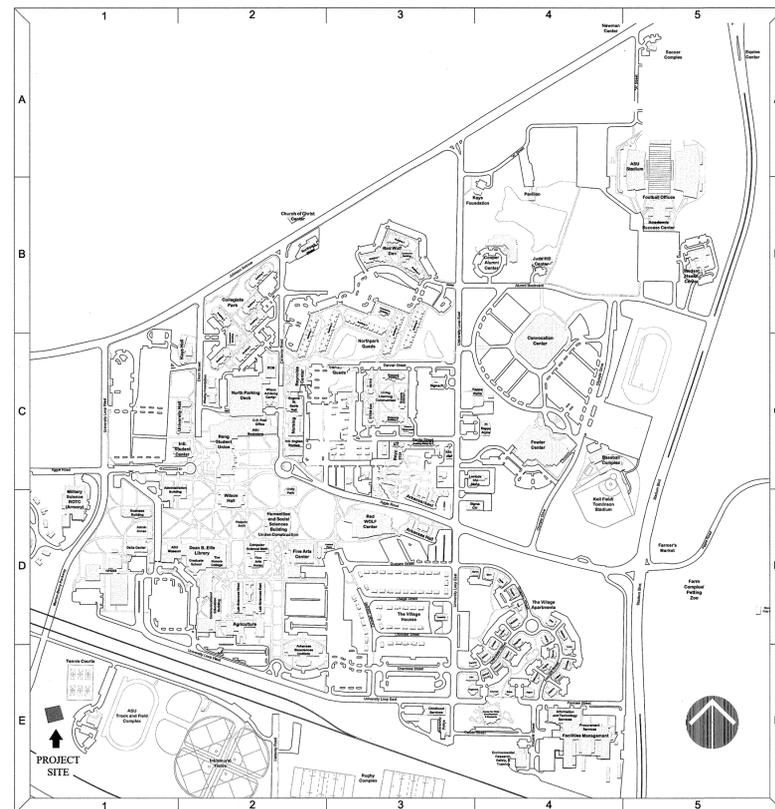
MPE ENGINEERS
PETTIT & PETTIT, INC.
201 East Markham St. Suite 400
Little Rock, AR 72201
501.374.3731
www.pettitinc.com



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

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

SYMBOLS

SECTION		SECTION NUMBER
DETAIL		SHEET NUMBER DETAIL NUMBER
DOOR		SHEET NUMBER
WINDOW		
ALUMINUM FRAME		
HOLLOW METAL FRAME		
EXISTING CONTOUR LINE		
NEW CONTOUR LINE		
NEW SPOT ELEVATION		
FINISH ELEVATION		

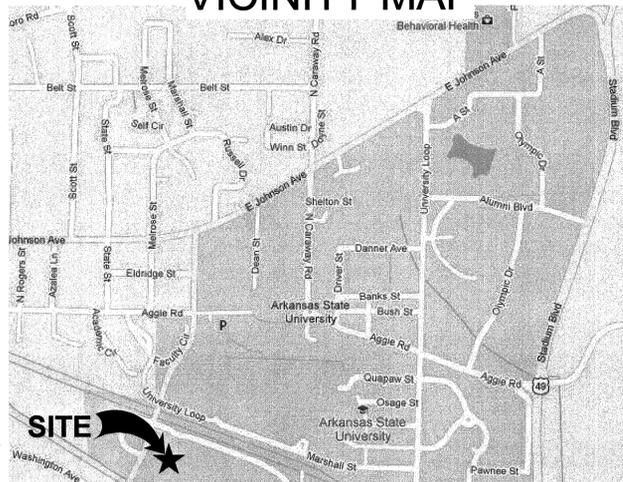
ABBREVIATIONS

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	CL	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	
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	

VICINITY MAP



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	OCCUPANCY LOAD (Table 1004.1.2) 44
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)	
EXIT ACCESS STRATEGY 1 Hour rated corridor	
EXIT REQUIREMENTS Min. No. of Exits 2 Min. Door Size 36"(ADA) Max Distance To Exit 200'-0" Egress Level .3" Per Person SEISMIC ZONE 3, Category D	
BUILDING SETBACKS 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	

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.

KYLE L. COOK



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	PLUMBING
C005 ENLARGED EROSION PLAN	P100 PLUMBING GENERAL NOTES AND LEGENDS
C006 ENLARGED UTILITY PLAN	P101 FLOOR PLAN - PLUMBING
C007 CIVIL DETAILS	P102 ROOF PLAN - PLUMBING
C008 SITE DETAILS	P201 PLUMBING DETAILS
	P301 PLUMBING RISERS
	P401 PLUMBING SCHEDULES
ARCHITECTURAL	ELECTRICAL
A001 LIFE SAFETY PLAN	E100 SITE ELECTRICAL PLAN
A002 DOOR SCHEDULE, VISUAL DOOR TYPES, ALUMINUM FRAME SCHEDULE, HOLLOW METAL FRAME SCHEDULE AND DETAILS	E101 ELECTRICAL - POWER AND LIGHTING PLANS
A003 ALUMINUM FRAME DETAILS	E102 ELECTRICAL - SYSTEMS AND FIRE ALARM PLANS
A004 FINISH FLOOR PLAN, FINISH SCHEDULE, FLOOR TRANSITION DETAILS, VISUAL WALL TYPES	E201 ELECTRICAL SYMBOLS AND ABBREVIATIONS
A100 FLOOR PLAN, PLAN DETAILS	E202 ELECTRICAL DETAILS
A101 ROOF PLAN, ROOF DETAILS	E301 ELECTRICAL RISERS
A200 BUILDING ELEVATIONS	E401 ELECTRICAL SCHEDULES
A201 BUILDING ELEVATIONS	
A202 BUILDING SECTIONS	
A400 REFLECTED CEILING PLAN, CEILING DETAILS	
A500 WALL SECTIONS	
A501 WALL SECTIONS	
A502 WALL SECTIONS	
A600 ENLARGED TOILET PLANS, TOILET ELEVATIONS	
A601 MILLWORK ELEVATIONS, INTERIOR ELEVATIONS	
A602 MILLWORK ELEVATIONS	
A603 MILLWORK SECTIONS	
STRUCTURAL	
S100 GENERAL NOTES	
S101 FOUNDATION AND ROOF FRAMING PLANS	
S201 WALL SECTIONS	
S202 WALL SECTIONS AND DETAILS	
S203 MISC. DETAILS	

SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
1704.2.5 Inspection of Fabricators				
Verify fabrication/quality control procedures.	In-plant review		Periodic	7
1705.2 Steel Construction				
Structural steel welding:	Shop and field inspection			
a. Single-pass fillet welds < 5/16"			Periodic	2
b. Deck welds			Periodic	2
1705.4 Masonry Construction				
Verify compliance with approved submittals	Field Inspection		Periodic	3
Verification of f_m and f_{AC} prior to construction	Testing by unit strength method		Periodic	3
Verification of Slump Flow and Visual Stability Index (VSI) of selfconsolidating grout as delivered to the project	Field testing		Continuous	2,3
Verify proportions of site-mixed mortar and grout	Field Inspection		Periodic	2,3
Verify construction of mortar joints	Field Inspection		Periodic	3
Verify location of reinforcement, connectors, and anchorages.	Field inspection		Periodic	3
Verify grout space prior to grouting	Field Inspection		Periodic	3
Verify size, grade, and type of reinforcement.	Field inspection		Periodic	3
Verify placement of reinforcement, connectors, and anchorages prior to grouting.	Field inspection		Periodic	3
Verify size and location of structural masonry elements	Field Inspection		Periodic	3
Verify type, size, and location of anchors, including details of anchorage of masonry to structural members, frames, or other construction.	Field inspection		Periodic	3
Observe preparation of grout specimens, mortar specimens, and/or prisms	Field testing		Periodic	2
1705.6 Soils				
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Field inspection		Periodic	1
Verify excavations are extended to proper depth and have reached proper material.	Field inspection		Periodic	1
Perform classification and testing of controlled fill materials.	Field inspection		Periodic	1
Verify site preparation complies with approved soils report.	Field inspection		Continuous	1
Verify use of proper materials, densities, and lift thicknesses during placement and compaction of subgrade and verify that site has been prepared properly.	Field inspection		Periodic	1
Verify dry-density of compacted fill complies with approved soils report.	Review field testing		Periodic	1
1705.11 Seismic Resistance				
Inspection of Suspended Ceiling system and anchorage.	Field inspection		Periodic	2,3
1705.11.5 Architectural Components Special Inspections for Seismic Resistance				
Inspection during the erection and fastening of exterior cladding and interior and exterior veneer.	Field inspection		Periodic	3
Inspection during the erection and fastening of interior and exterior non load bearing walls.	Field inspection		Periodic	3
1705.11.6 Mechanical and Electrical Components Special Inspections for Seismic Resistance				
Inspection of electrical equipment anchorage.	Field inspection		Periodic	6
Inspection of flammable piping systems and associated mechanical units.	Field inspection		Periodic	5
Inspection of HVAC and Plumbing equipment anchorage per specifications and drawings.	Field inspection		Periodic	5
Inspection of exterior mechanical and electrical anchorage.	Field inspection		Periodic	5,6
1705.11.4 Designated Seismic System Verification				
Inspect 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	FIRM			
1. TESTING AGENCY	GEOTECHNICAL ENGINEER			
2. TESTING AGENCY	TO BE SELECTED			
3. ARCHITECT	BRACKETT KRENNERICH			
4. STRUCTURAL ENGINEER	ENGINEERING CONSULTANTS INC.			
5. MECHANICAL ENGINEER	PETTIT AND PETTIT INC.			
6. ELECTRICAL ENGINEER	PETTIT AND PETTIT INC.			
7. STEEL FABRICATOR	TO BE SELECTED			
<small>Notes: 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies are subject to the approval of the Building Official and/or the Design Professional. 2. The list of Special Inspectors may be submitted as a separate document, if noted so above.</small>				
Encircle "Yes" or "No" as appropriate and date this document below:				
Are Requirements for Seismic Resistance included in the Statement of Special Inspections?				Yes
Are Requirements for Tornado Resistance included in the Statement of Special Inspections?				No
DATE: May 16, 2014				

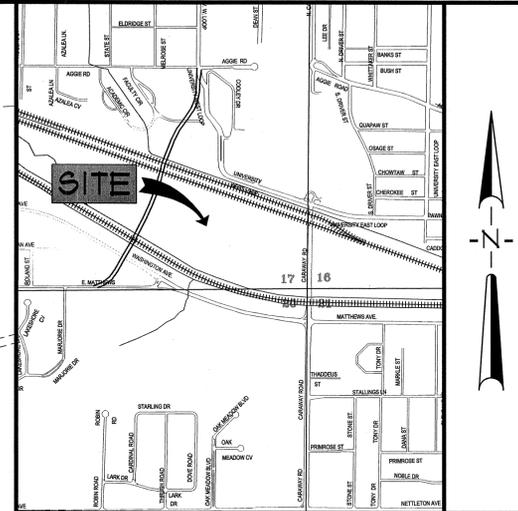
**BRACKETT
KRENNERICH**
architects

SET NUMBER

EXISTING SANITARY SEWER MANHOLE
TOP=218.12
INV. (N)=212.07
INV. (W)=211.94
INV. (E)=211.87

EXISTING SANITARY SEWER MANHOLE
TOP=216.31
INV. (N)=212.63
INV. (S)=212.55

BEARING BASIS
(STATE PLANE COORDINATES - ARKANSAS NORTH ZONE)
20' 10' 0" 20' 40'



VICINITY SKETCH
NOT TO SCALE

LEGEND

- 5894 • EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER CLEANOUT
- - - - - EXISTING WATER LINE
- EXISTING WATER METER
- EXISTING VALVE
- EXISTING SPRINKLER CONTROL VALVE
- EXISTING FIRE HYDRANT
- - - - - EXISTING UNDERGROUND ELECTRIC
- EXISTING LIGHT POLE
- EXISTING ELECTRIC TRANSFORMER
- - - - - EXISTING UNDERGROUND TELEPHONE
- - - - - EXISTING UNDERGROUND FIBER OPTIC
- - - - - EXISTING HANDICAP PARKING SIGN
- - - - - EXISTING FENCE
- - - - - EXISTING CONTOUR
- BM • BENCHMARK

GENERAL NOTES

1. THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY. THIS PARTIAL TOPOGRAPHIC SURVEY WAS PREPARED FOR BRACKETT-KRENNERICH ARCHITECTS.
2. NO SEARCH OF THE PUBLIC RECORDS HAS BEEN MADE BY THIS SURVEYOR FOR EASEMENTS, RESTRICTIONS, RESERVATIONS OR RIGHTS-OF-WAY AFFECTING THIS PROPERTY.
3. ALL UTILITY LOCATIONS SHOWN HEREON WERE LOCATED BY FIELD MEASUREMENTS OF VISIBLE OBSERVATIONS AND/OR EXISTING UTILITY MAPS. ASSOCIATED ENGINEERING AND TESTING, LLC MAKES NO WARRANTY OR GUARANTEE TO THE UTILITIES SHOWN OR NOT SHOWN HEREON. FURTHERMORE ASSOCIATED ENGINEERING AND TESTING, LLC MAKES NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF EXISTING UTILITY MAPS. IF PRECISE LOCATIONS OF UNDERGROUND UTILITIES ARE REQUIRED THE CLIENT/CONTRACTOR SHALL COORDINATE WITH SAID UTILITY OWNER TO EXPOSE SAID UTILITY FOR LOCATION AND/OR DEPTH. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ANY AND ALL UTILITY LOCATIONS AND/OR DEPTHS BEFORE EXCAVATION.
4. ELEVATIONS SHOWN HEREON ARE IN FEET AND DECIMAL PARTS THEREOF AND REFER TO MSL DATUM.
5. BENCHMARK # 19 IS CHEELED SQUARE ON CENTERLINE OF STORM DRAINAGE HEADWALL LOCATED APPROXIMATELY 37 FEET WEST AND 94 FEET NORTH ELEV. = 216.56 (NAVD 88).
- 6.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT ASSOCIATED ENGINEERING AND TESTING, LLC HAS THIS DATE MADE A TOPOGRAPHIC SURVEY OF THE ABOVE DESCRIBED PROPERTY AS SHOWN HEREON AND THAT SAID SURVEY IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THERE ARE NO APPARENT ABOVE GROUND ENCROACHMENTS OTHER THAN AS SHOWN OR STATED HEREON AND THAT THIS SURVEY WAS MADE IN ACCORDANCE WITH THE "ARKANSAS MINIMUM STANDARDS FOR PROPERTY SURVEYS AND PLATS" IN EFFECT ON THIS DATE.

DATE OF BOUNDARY SURVEY: 04/10/2014



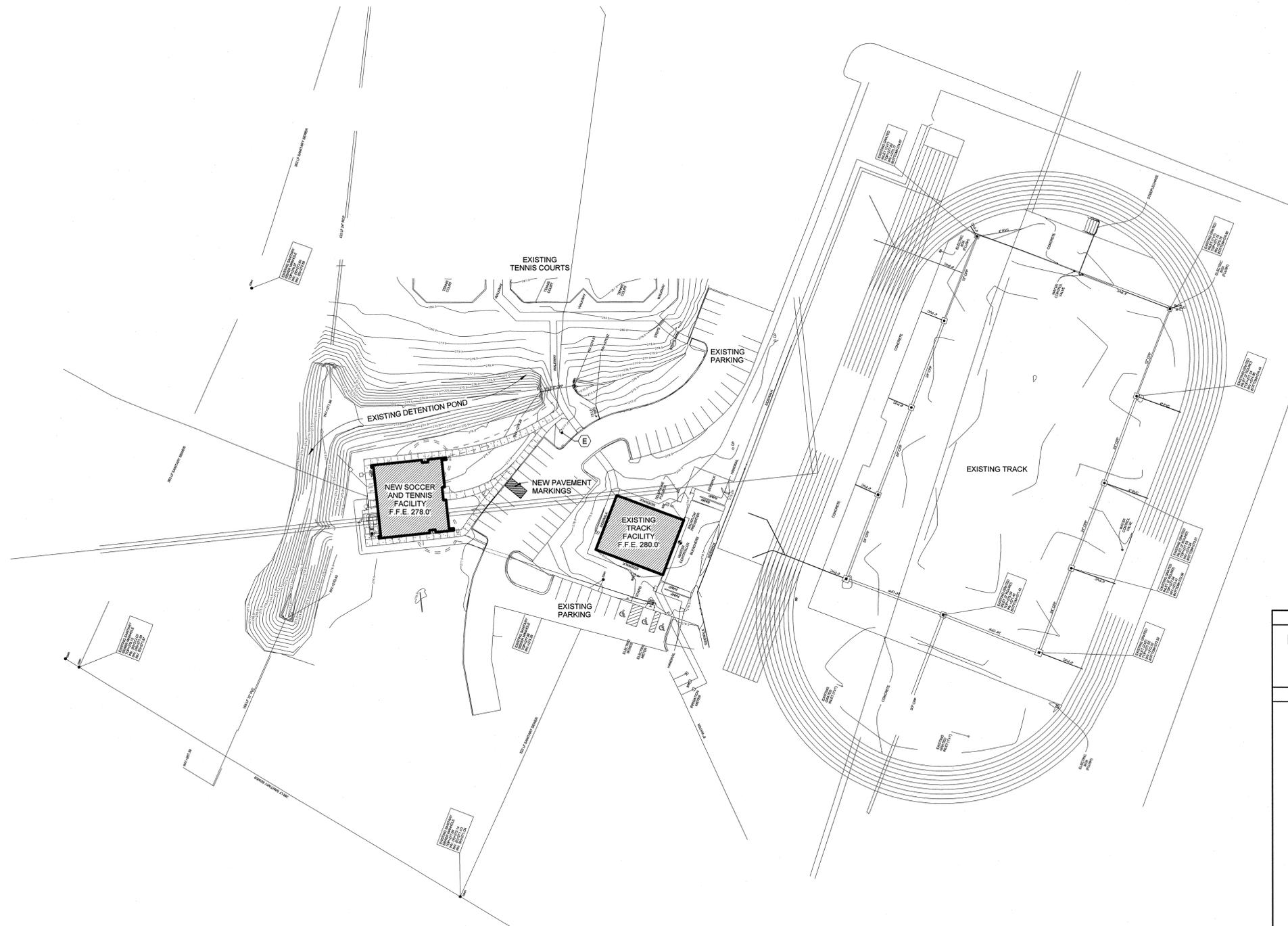
NOTE: TO BE VALID, COPIES MUST HAVE ORIGINAL SURVEYOR'S SIGNATURE AND SURVEYOR'S SEAL.

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

TOPOGRAPHIC SURVEY FOR BRACKETT-KRENNERICH ASU SOCCER JONESBORO, ARKANSAS

DRAWN: KLS/CCH	CHECKED: JME	DATE: 05/16/14	SHEET
SCALE: 1" = 30'	CADD FILE: 1306-002-R1	DWG# 041412.0006	0000





n
overall site plan
 SCALE: 1" = 50'-0"

SITE PLAN LEGEND	
DW	DETECTABLE WARNING STRIP
E	EMERGENCY TELEPHONE-SEE ELEC.

GENERAL NOTES	
1.	COORDINATE EXTENT OF DEMOLITION WITH NEW SITE PLAN AND GRADING PLAN.
2.	CONTRACTOR SHALL ASSUME 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 SOILS ENGINEER AND APPROVED BY OWNER/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.

Revision Schedule	
Issued by	Rev. Date

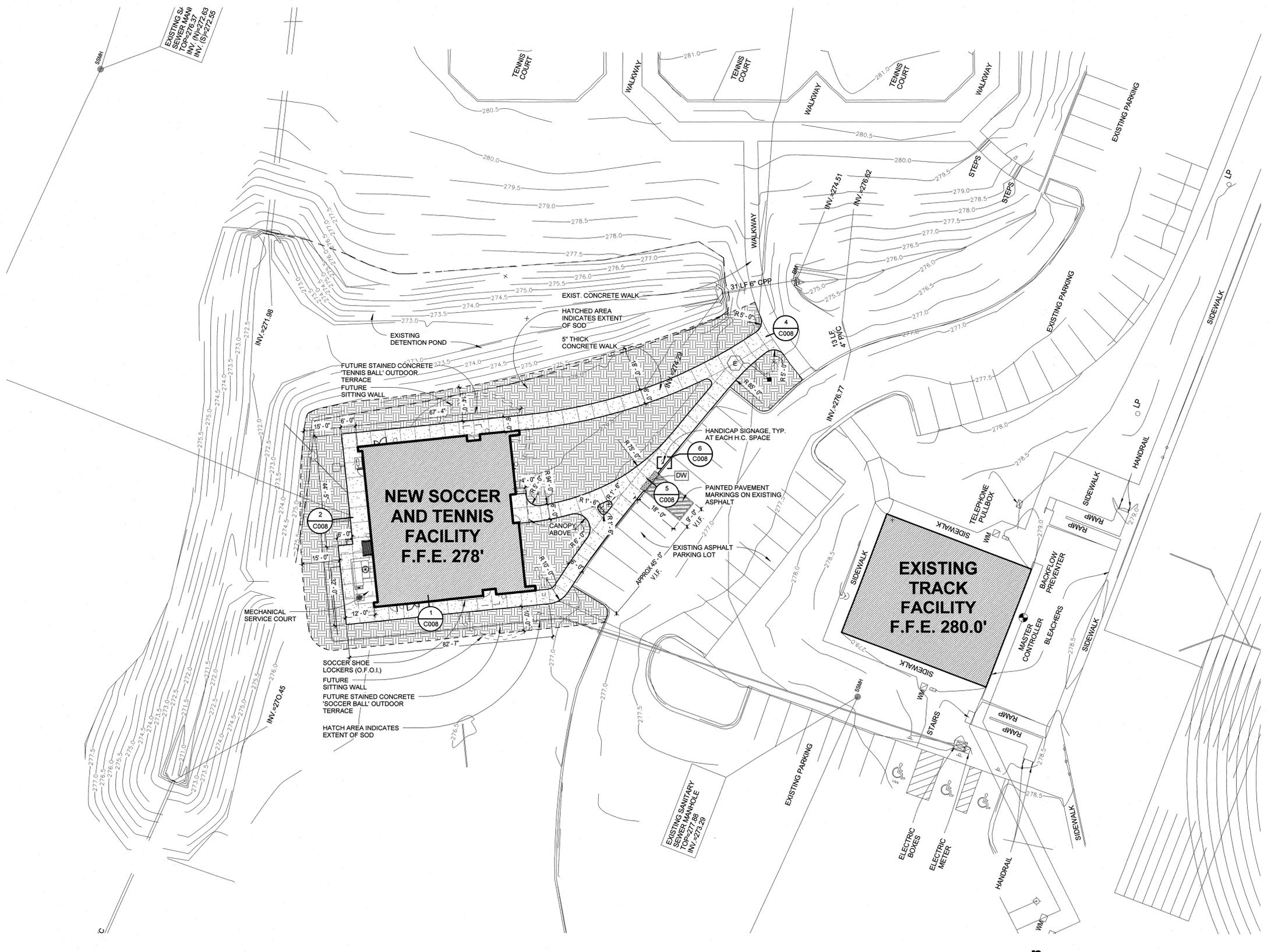


Commission Number
 12012 - 1C
C001
 Date: May 16, 2014



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

BRACKETT KRENNERICH & ASSOCIATES, P.A.
architects



SITE PLAN LEGEND	
DW	DETECTABLE WARNING STRIP
E	EMERGENCY TELEPHONE- SEE ELEC.

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site plan
 SCALE: 1" = 20'-0"

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

BRACKETT KRENNERICH
 architects

Revision Schedule	Issued by	Rev. Date	Rev. Description	Rev. Date	Rev. Description

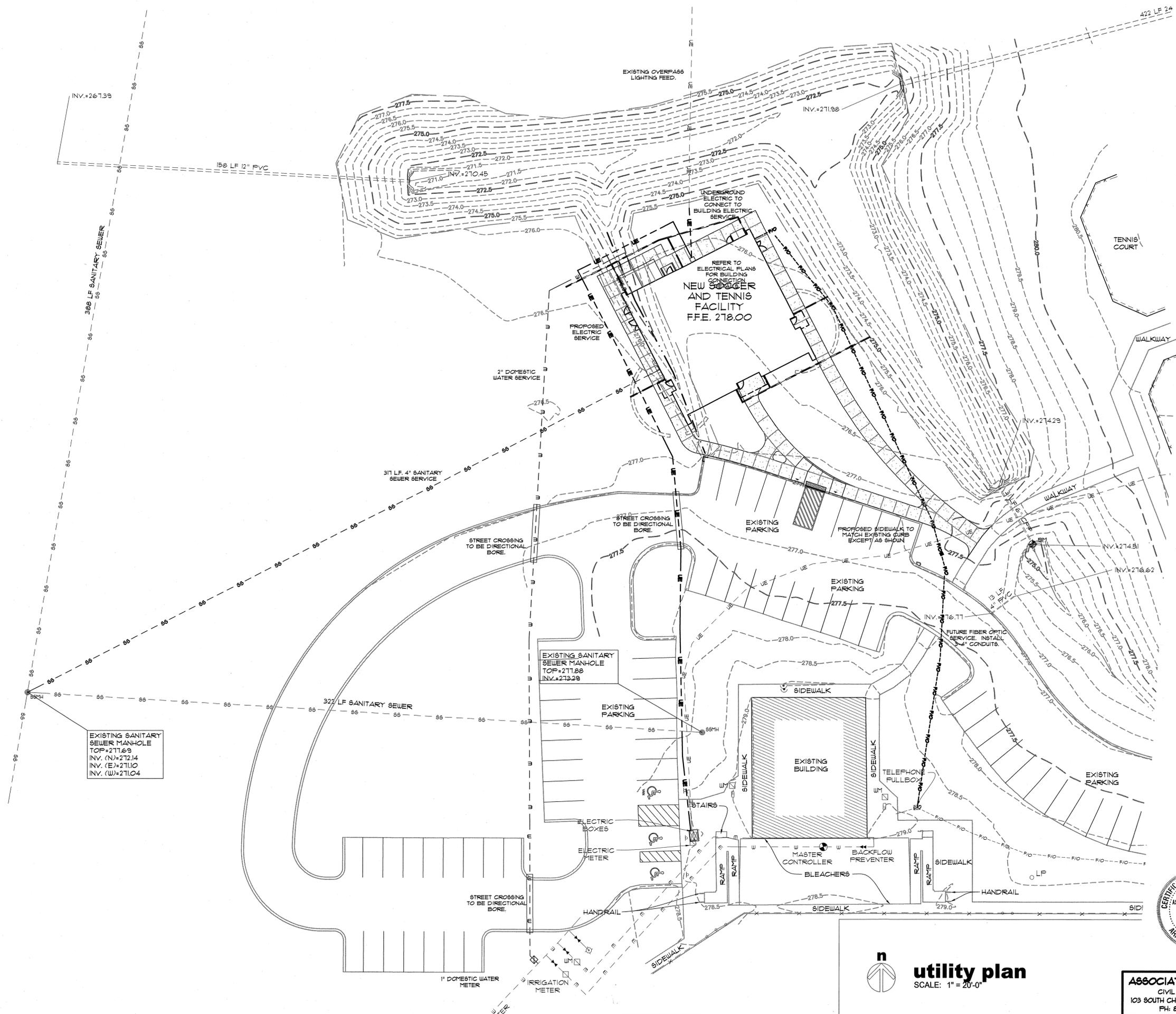
REGISTERED ARCHITECTS
 C13
 ARKANSAS
 16 MAY 2014

Commission Number
 12012 - IC

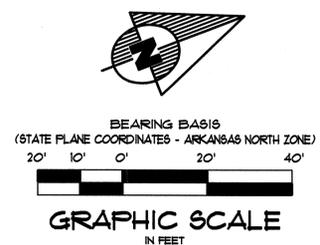
C002

Date: May 16, 2014

C:\Users\toddw\Documents\Revit Local Project Files\12012 ASU SAC and FOB\Phase 1\122012-122357.rvt
 5/12/2014 9:23:57 AM



EXISTING SANITARY SEWER MANHOLE
 TOP = 271.69
 INV. (N) = 272.14
 INV. (E) = 271.10
 INV. (W) = 271.04



SOCCER & TENNIS FACILITY
ARKANSAS STATE UNIVERSITY
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 Jonesboro, Arkansas

BRACKETT
KRENNERICH
 architects



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



utility plan
 SCALE: 1" = 20'-0"

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

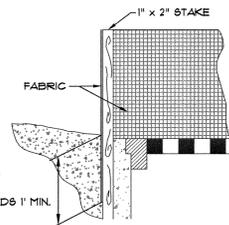
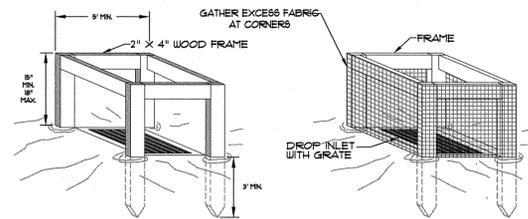
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Commission Number
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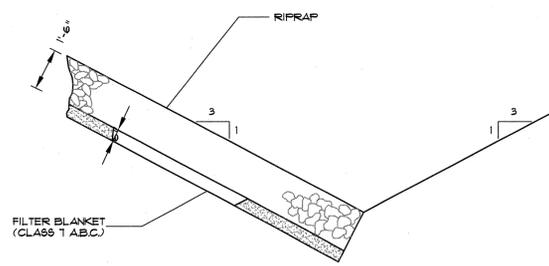
C006

Date: May 16, 2014

ENLARGED UTILITY PLAN
 100 East Huntington Ave., Suite D, P.O. Box 1655
 Jonesboro, Arkansas 72403
 870-932-0975
 Fax: 870-932-0975
 www.brackettkrennerich.com

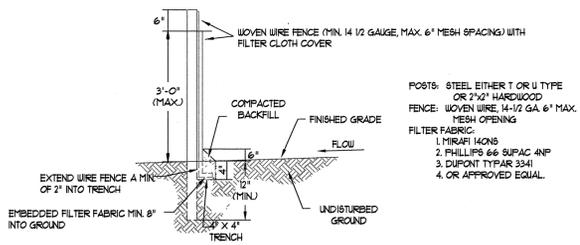
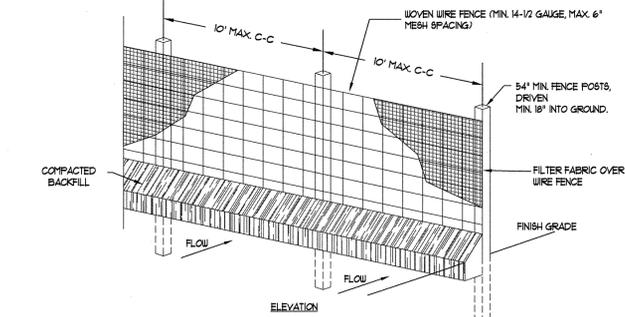


SILT FENCE INLET PROTECTION
SCALE: 1/2" = 1'-0"



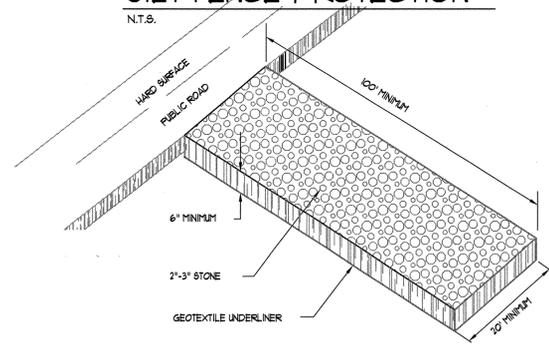
NOTE: IN LIEU OF AN AGGREGATE FILTER BLANKET, A SYNTHETIC FIBER GEOTEXTILE FABRIC MEETING THE REQUIREMENTS OF AASHTO M288 MAY BE USED. IN LIEU OF RIFRAP, AN EROSION CONTROL MAT MAY BE USED.

SECTION - DUMPED RIPRAP
TOE EXCAVATION IN SOIL

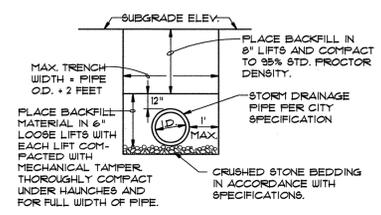


1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
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
N.T.S.

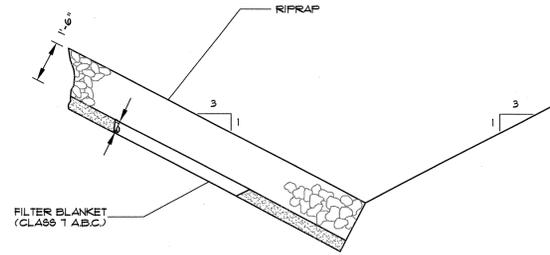


CONSTRUCTION ENTRANCE
N.T.S.



DRAINAGE PIPE TRENCH DETAIL

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



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 RIFRAP, AN EROSION CONTROL MAT MAY BE USED.

SECTION - DUMPED RIPRAP
TOE EXCAVATION IN SOIL



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architects



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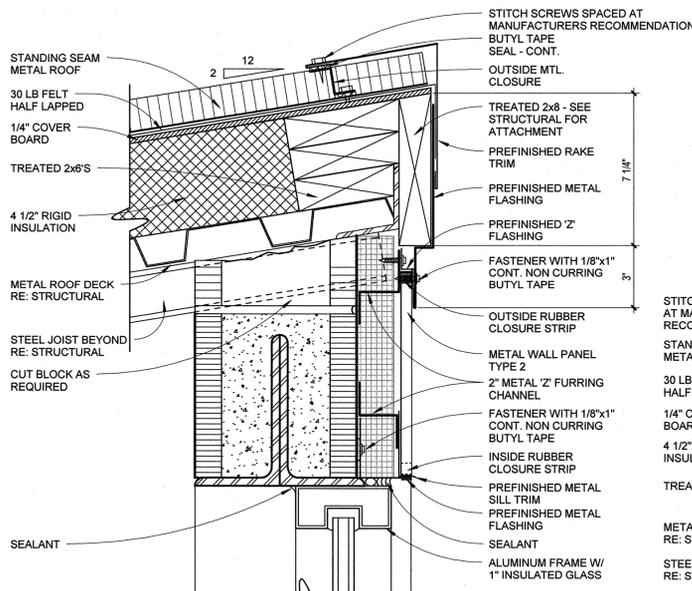
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Tag	Rev. Description	Rev. Date	Issued by

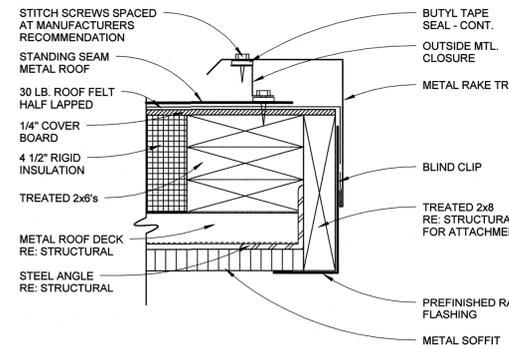
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C007

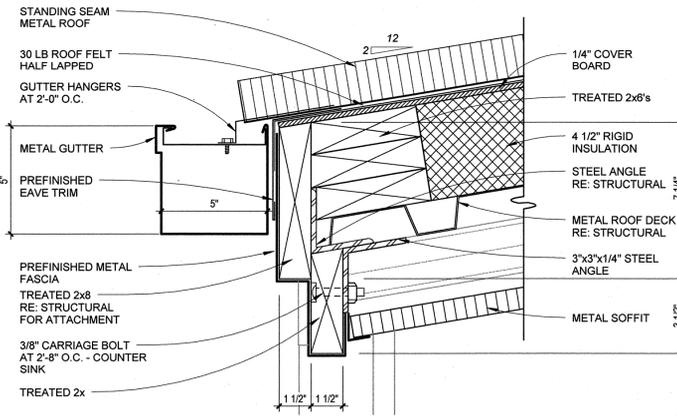
Date: May 16, 2014



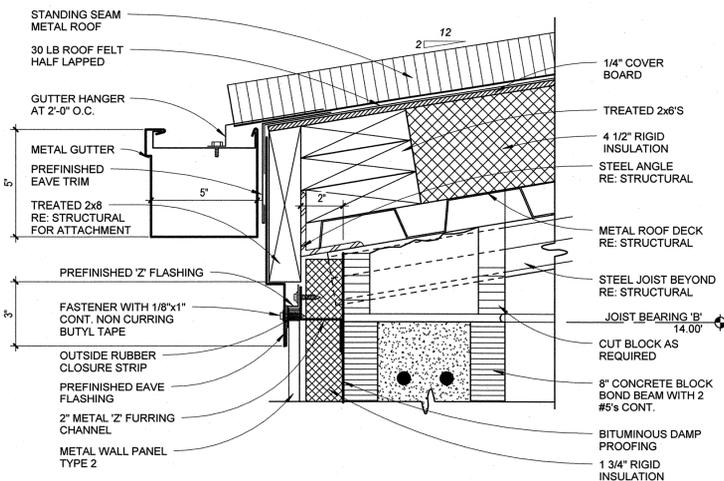
4 high eave detail
SCALE: 3" = 1'-0"



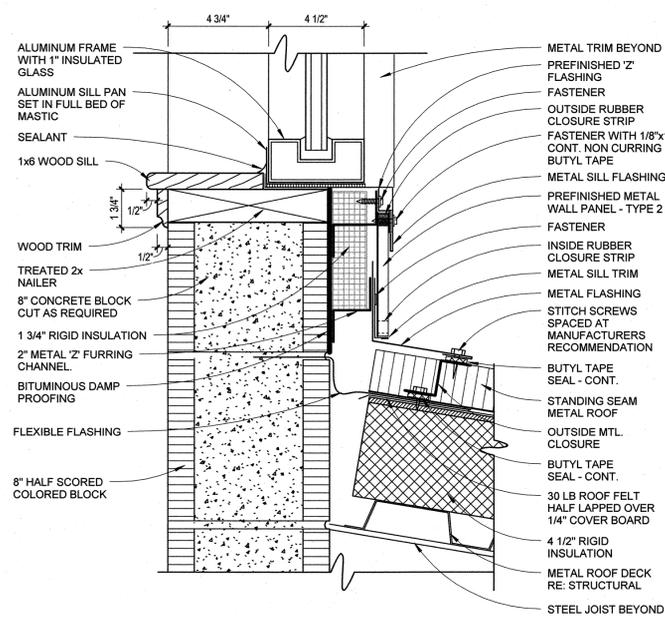
3 rake detail
SCALE: 3" = 1'-0"



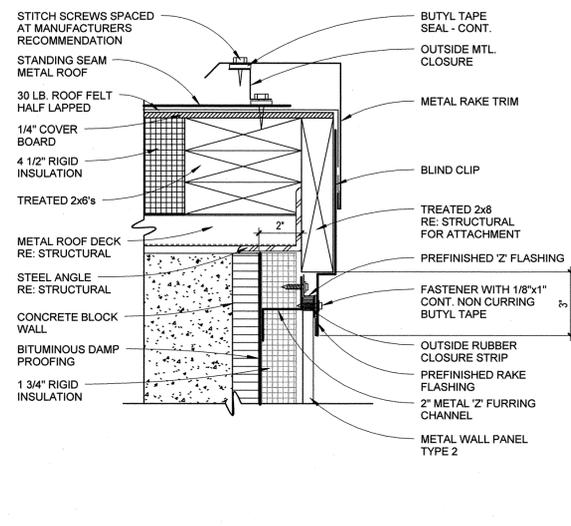
2 gutter detail
SCALE: 3" = 1'-0"



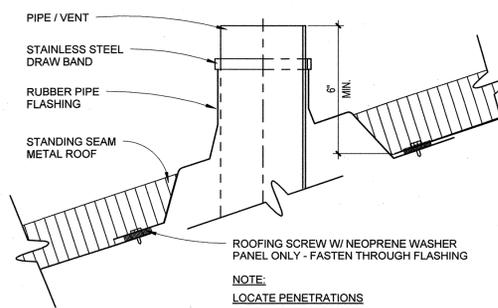
1 gutter detail
SCALE: 3" = 1'-0"



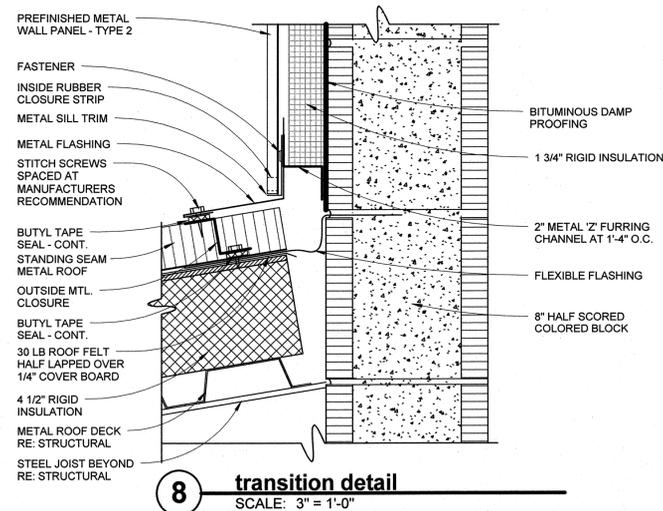
6 sill detail
SCALE: 3" = 1'-0"



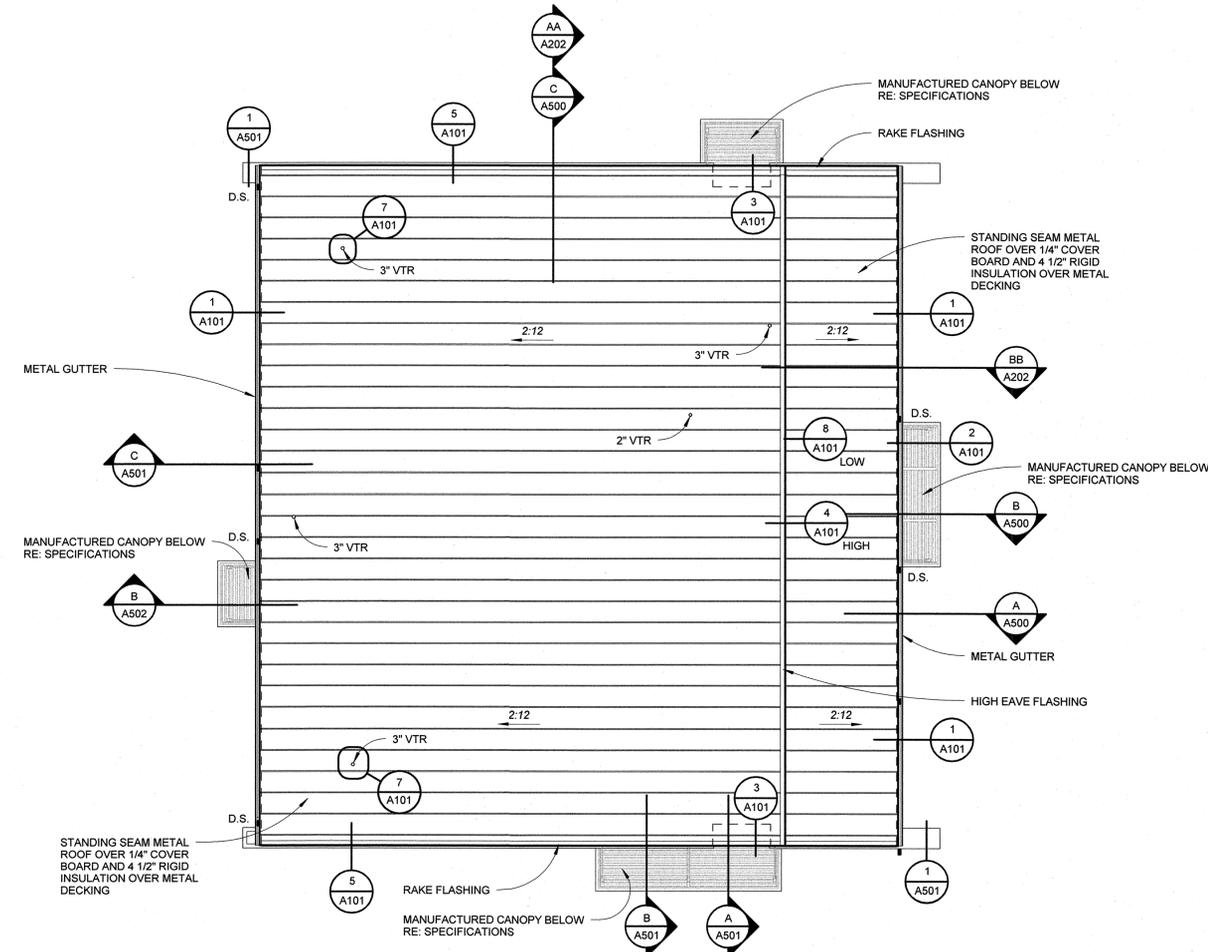
5 rake detail
SCALE: 3" = 1'-0"



7 vtr detail
SCALE: 3" = 1'-0"



8 transition detail
SCALE: 3" = 1'-0"



n roof plan
SCALE: 1/8" = 1'-0"



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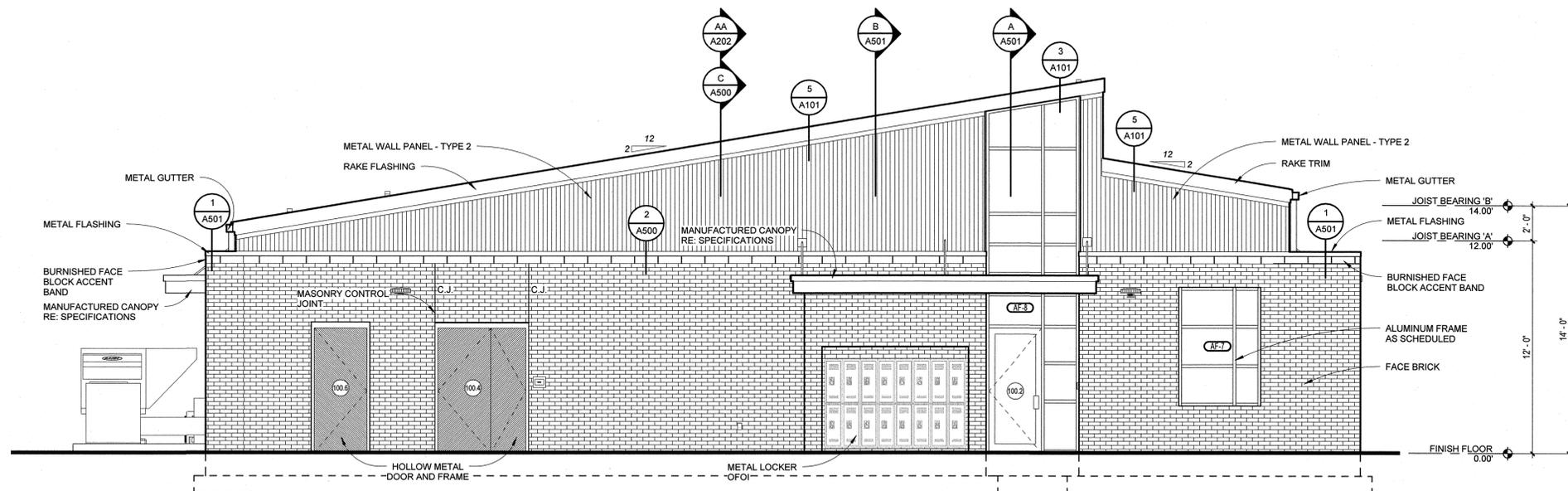
Revision	Schedule	Issued	Rev. Date	Rev. Description	Rev. Date



Commission Number
12012 - 1C
A101
Date: May 16, 2014

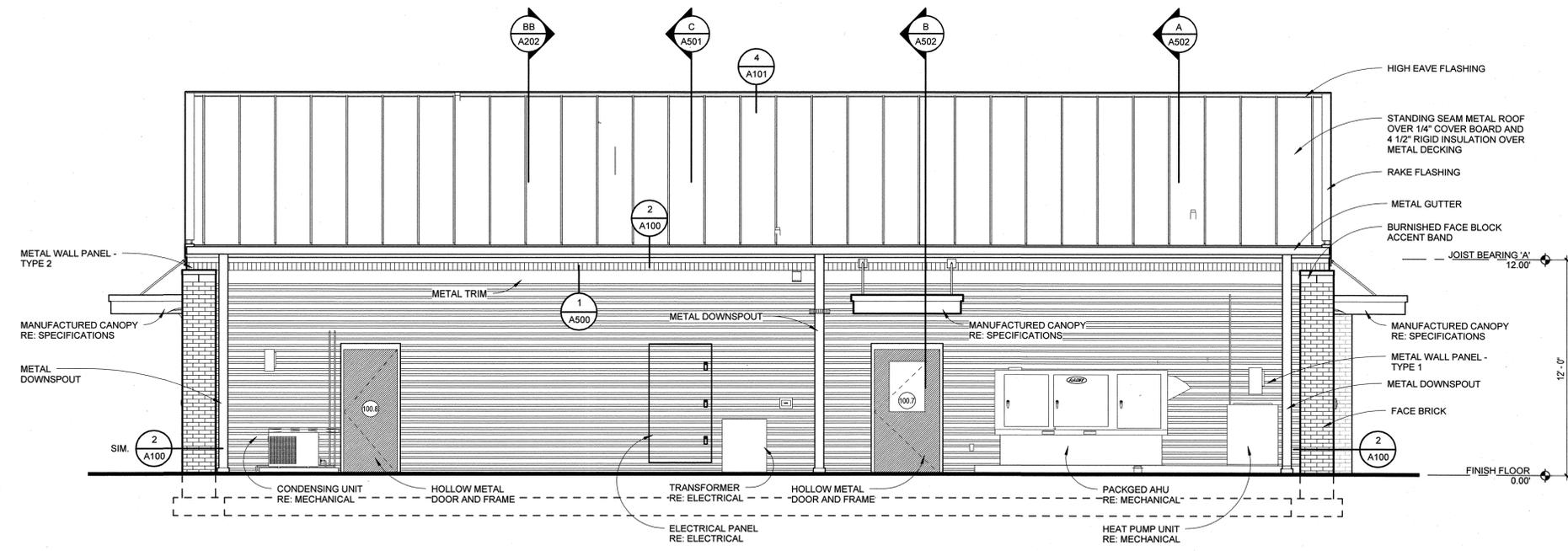
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100 East Huntington Ave., Suite D, P.O. Box 1655, Jonesboro, Arkansas 72403
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south elevation

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



west elevation

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



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Revision Schedule	Issued by
Tag	Rev. Description
	Rev. Date



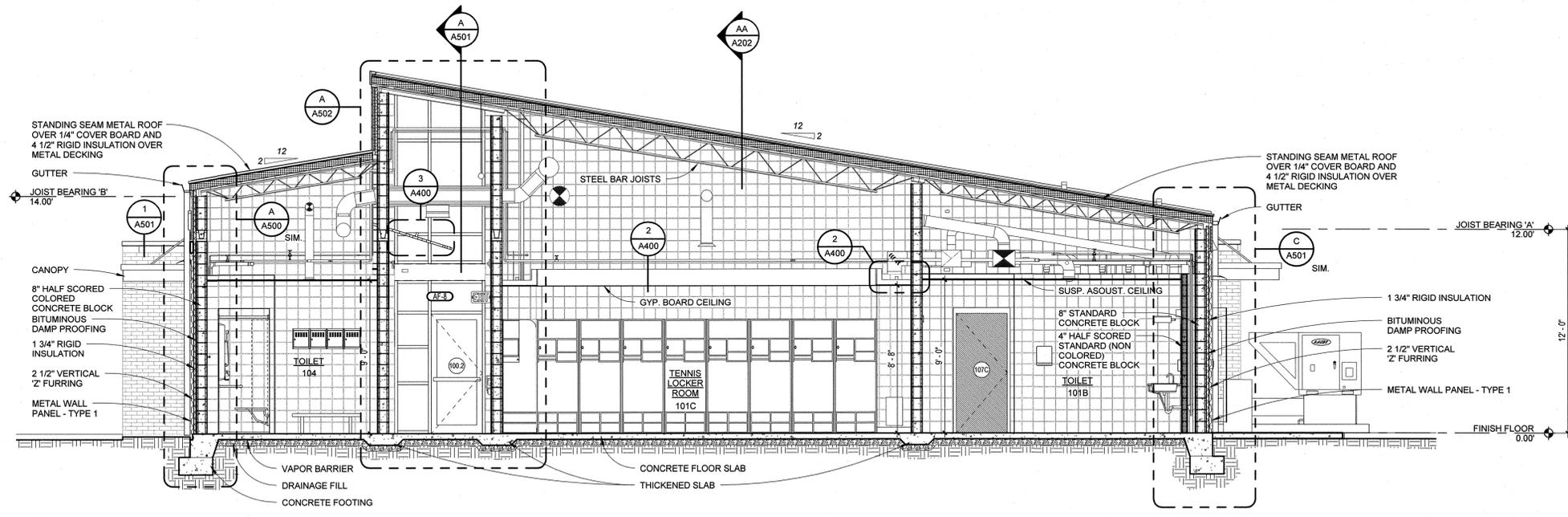
Commission Number
12012 - 1C

A201

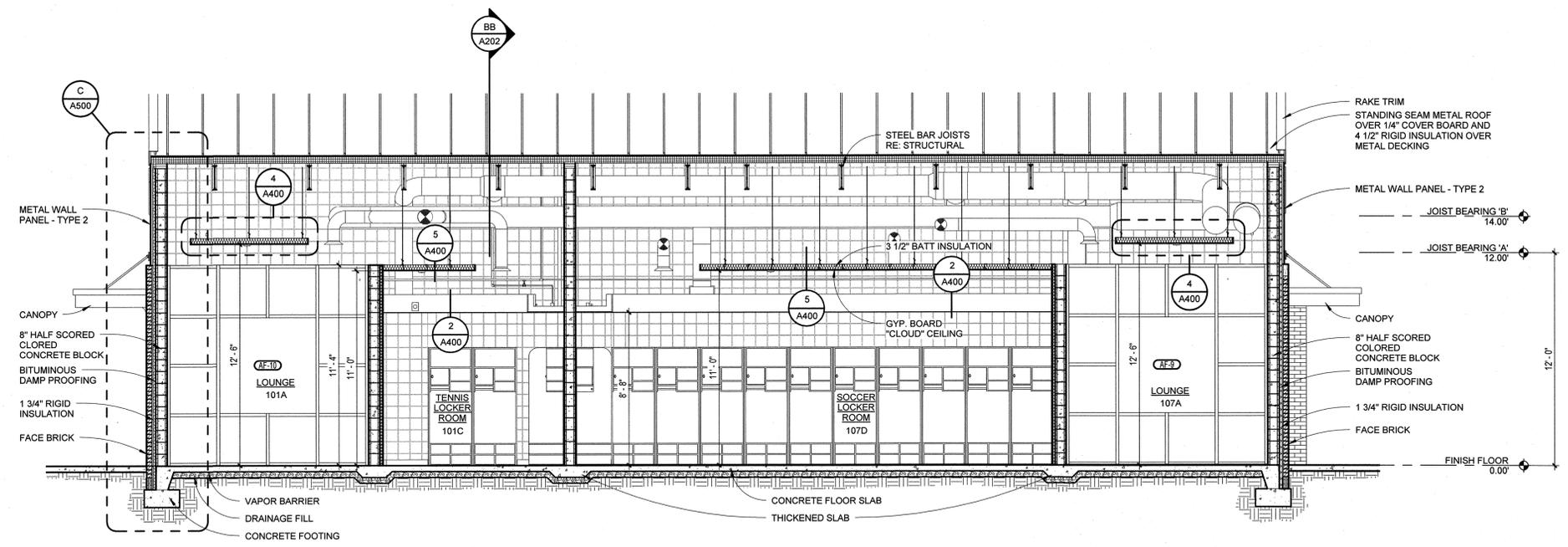
Date: May 16, 2014

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building section BB
1/4" = 1'-0"



building section AA
1/4" = 1'-0"



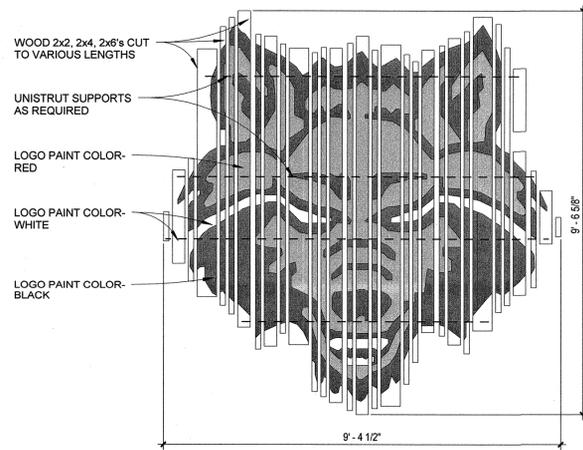
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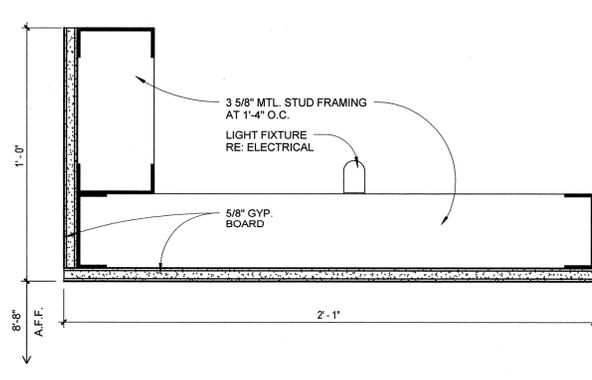
Revision Schedule	Issued by
Rev. Description	Rev. Date
Tag	



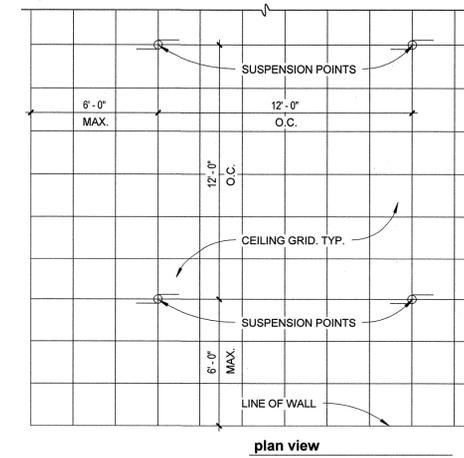
Commission Number
12012 - 1C
A202
Date: May 16, 2014



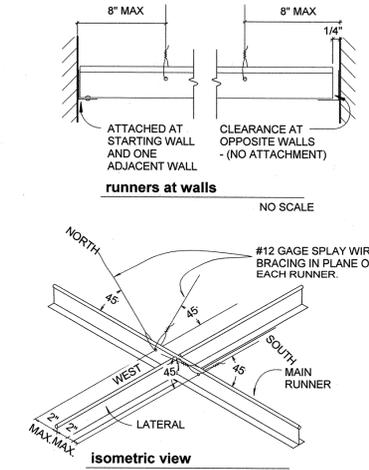
3 hanging logo detail
SCALE: 1/2" = 1'-0"



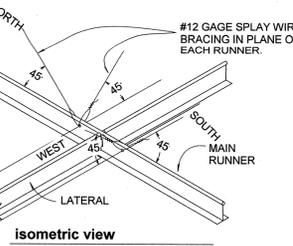
2 ceiling detail
SCALE: 3" = 1'-0"



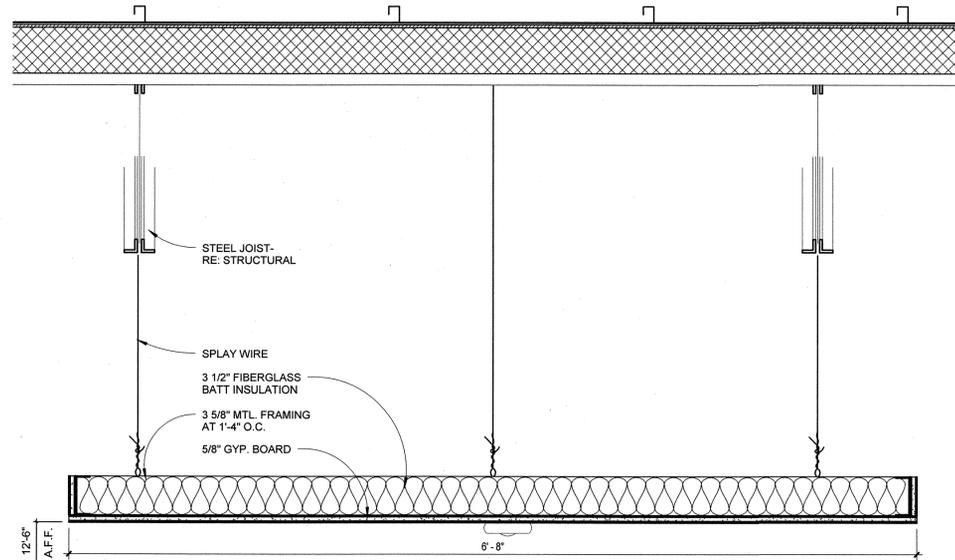
1 seismic detail
SCALE: 1/4" = 1'-0"



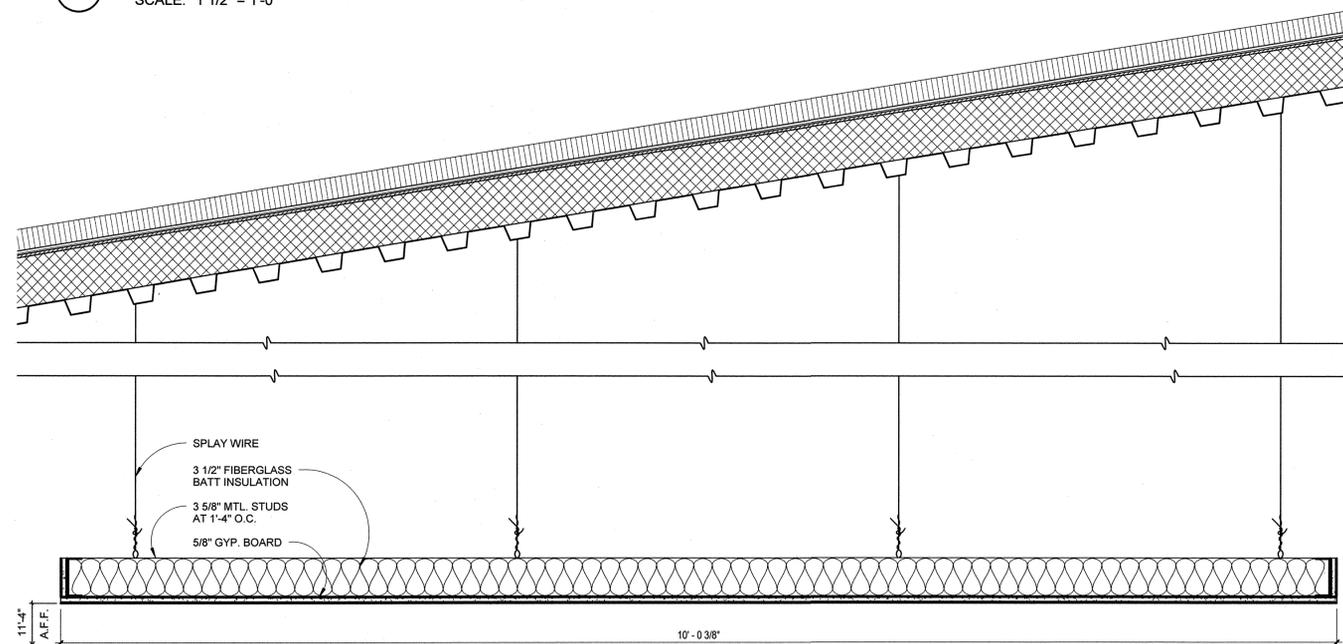
runners at walls
NO SCALE



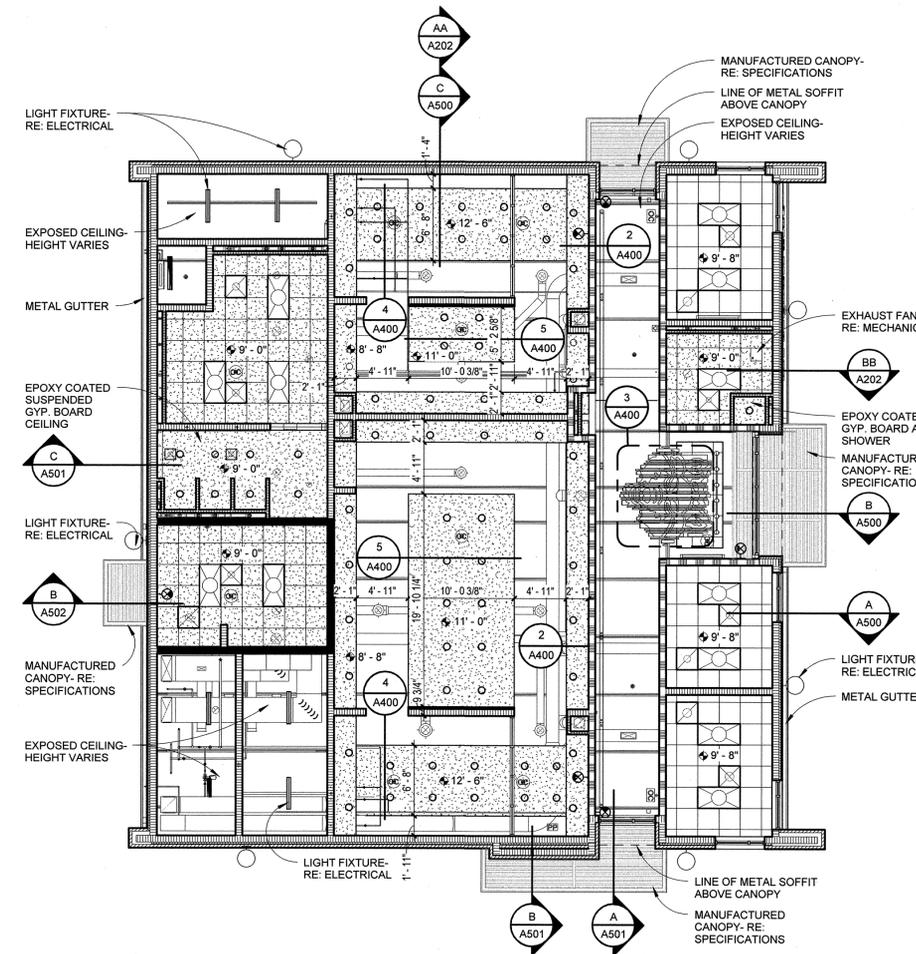
isometric view
NO SCALE



4 cloud detail in lounge
SCALE: 1 1/2" = 1'-0"



5 cloud detail in locker room
SCALE: 1 1/2" = 1'-0"



n reflected ceiling plan
SCALE: 1/8" = 1'-0"

NOTE: PAINT DUCTWORK, STRUCTURAL MEMBERS, PIPES, AND CONDUIT AT EXPOSED CEILINGS IN ROOMS AAL01, AAC01, 101, 101A, 101C, 107, 107A, AND 107D.

ARCHITECTURAL	
	TYPE A 2x2 SUSP. ACOUSTICAL CEILING SYSTEM
	TYPE B 2x2 SUSP. ACOUSTICAL CEILING SYSTEM
	GYP. BOARD
	METAL SOFFIT
	EXPOSED STRUCTURE

MECHANICAL	
	RETURN AIR GRILLE
	SUPPLY AIR GRILLE
	EXHAUST FAN
SEE MECHANICAL PLAN FOR FURTHER DETAILS AND INFORMATION	

ELECTRICAL	
	2x4 RECESSED LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	RECESSED CEILING LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	DECORATIVE SUSP. LIGHT FIXTURE
	STRIP LIGHT
	STRIP LIGHT W/ COVER
	SUSPENDED FLUORESCENT LIGHT FIXTURE
	EXTERIOR WALL PACK
	EXIT SIGN
SEE ELECTRICAL PLAN FOR FURTHER DETAILS AND INFORMATION	

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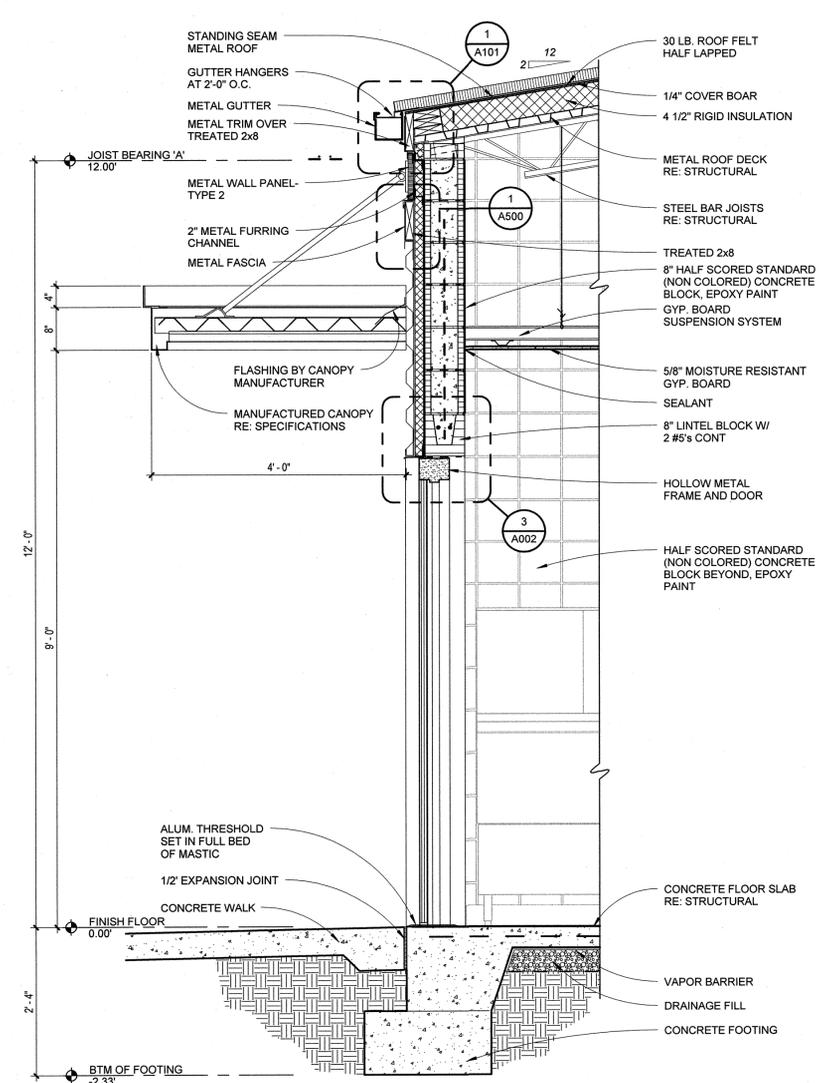
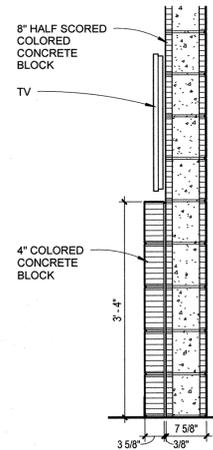
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A400
Date: May 16, 2014

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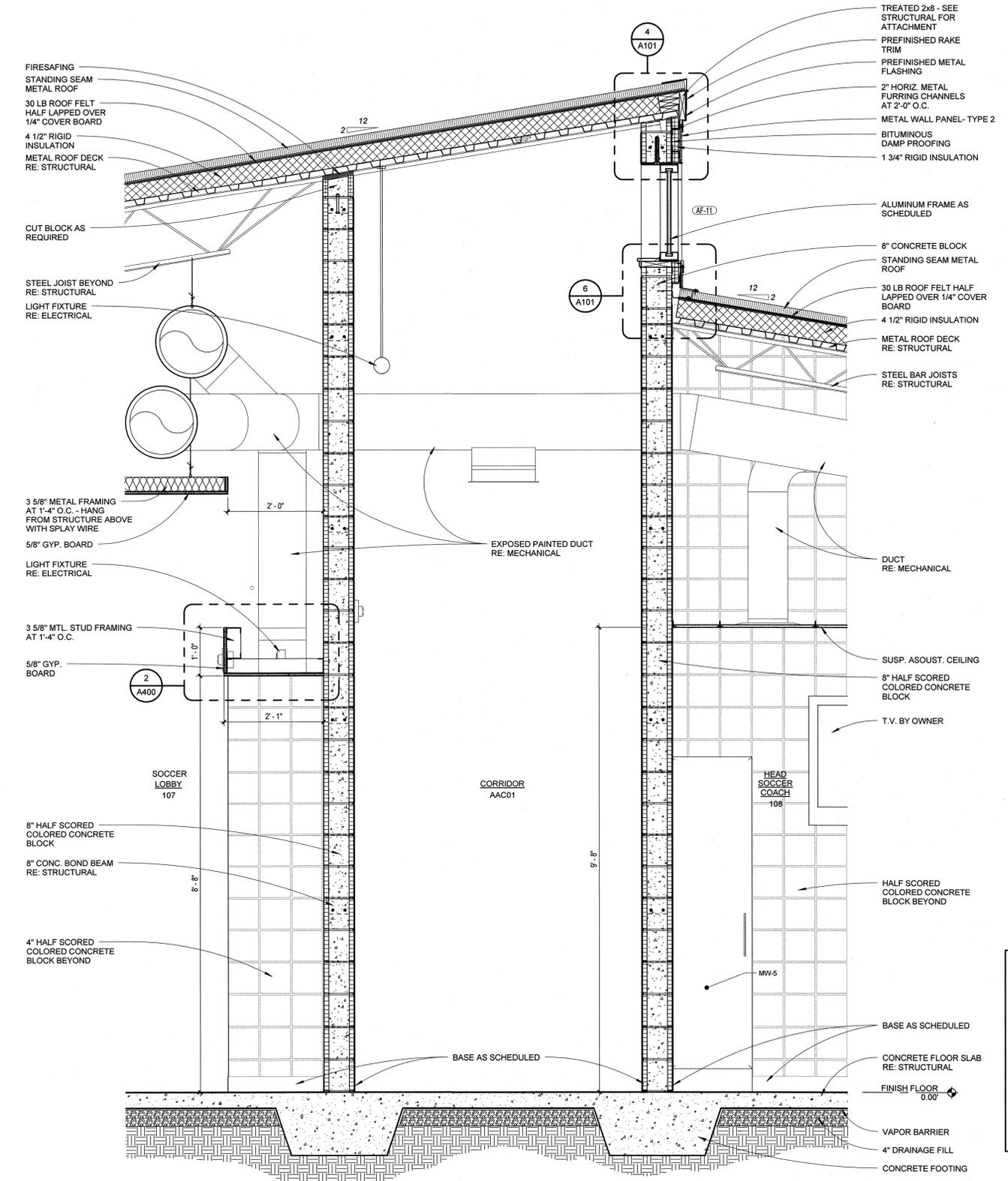
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 5/30/2014 8:41:22 AM
 4 Todd.rvt

C:\Users\todw\Documents\Revit Local Project Files\2012 ASU SAC and FOB\Phase 5/29/2014 3:45:21 PM - Todd.rvt

C wall section
SCALE: 3/4" = 1'-0"



B wall section
SCALE: 3/4" = 1'-0"



A wall section
SCALE: 3/4" = 1'-0"

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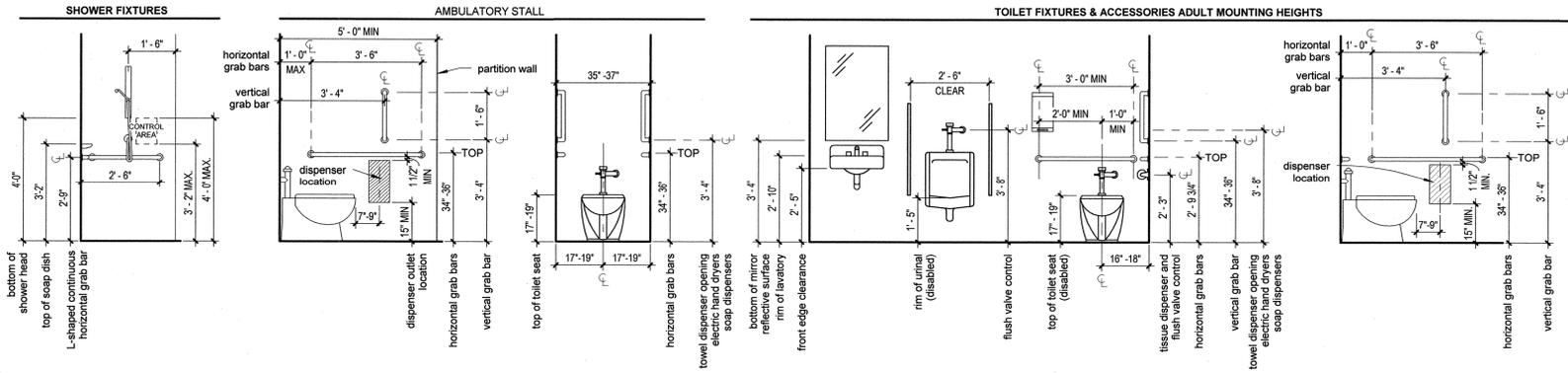
Revision Schedule	Tag	Rev. Description	Rev. Date	Issued By

Commission Number
12012 - IC

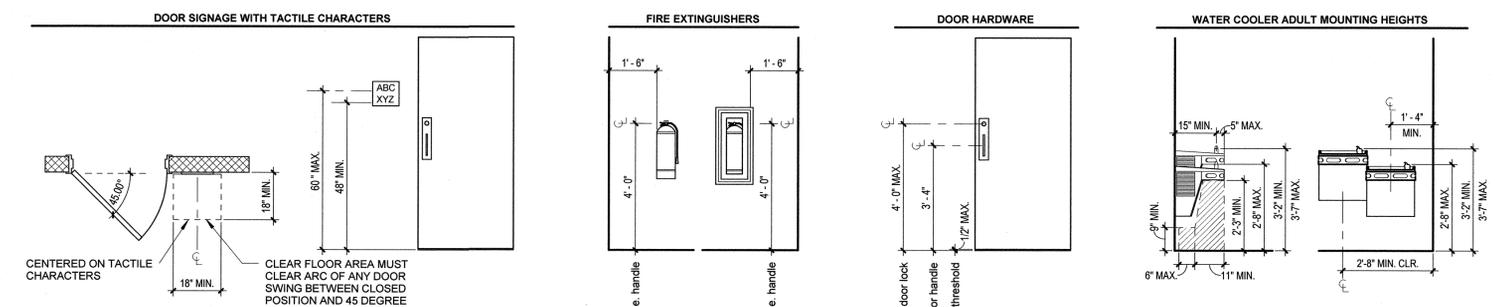
A502

Date: May 16, 2014

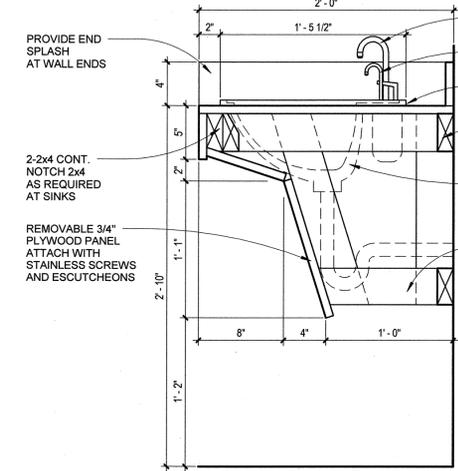
100 East Huntington Ave., Suite D, P.O. Box 1655
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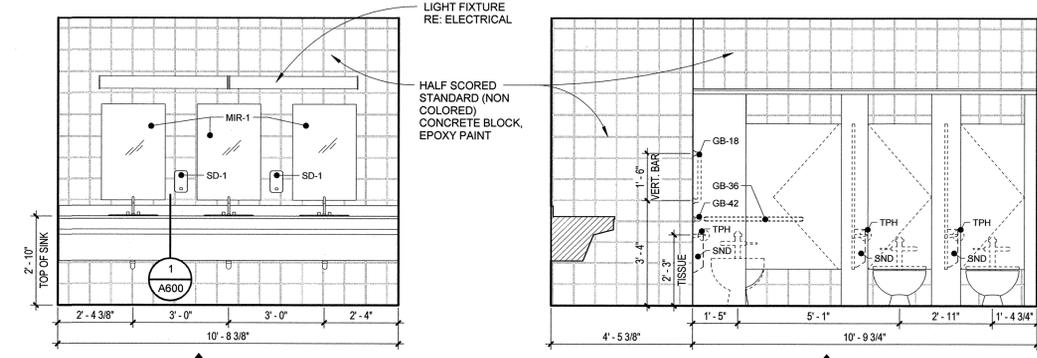
TOILET ACCESSORIES LEGEND	
TPH	TOILET PAPER HOLDER - BY OWNER
TD	PAPER TOWEL DISPENSER - BY OWNER
SD	SOAP DISPENSER - BY OWNER
TH-1	TOWEL HOOK (60" AFF MOUNTING HEIGHT)
TH-2	TOWEL HOOK (48" AFF MOUNTING HEIGHT)
MIR-1	24"x36" MIRROR
GB-18	18" VERTICAL GRAB BAR
GB-18-30	WRAP AROUND BAR (18" L & 30" L)
GB-36	36" GRAB BAR
GB-42	42" GRAB BAR
MH-1	MOP HANGER
SCR	SHOWER CURTAIN, HOOKS, AND ROD
SS	FOLDABLE ADA SHOWER BENCH
SC	SHOWER CONTROLS
SND	SANITARY DISPOSAL (AT ALL TOILET STALLS)
BCH-1	ADA LOCKER ROOM BENCH (42" W X 20" D)



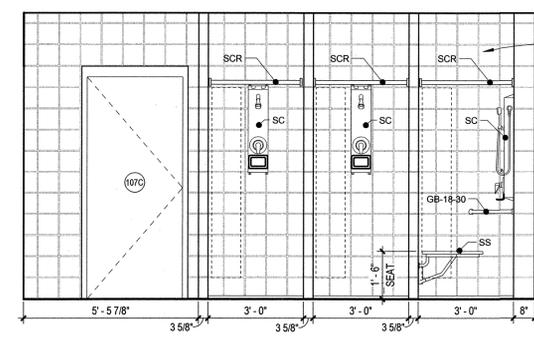
ADA Mounting Heights
3/8" = 1'-0"



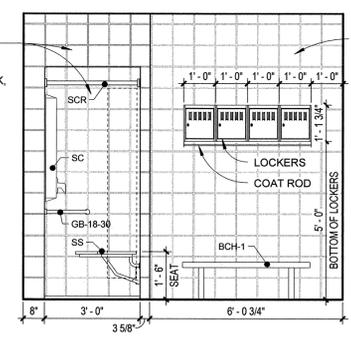
1 ADA counter section
SCALE: 1 1/2" = 1'-0"



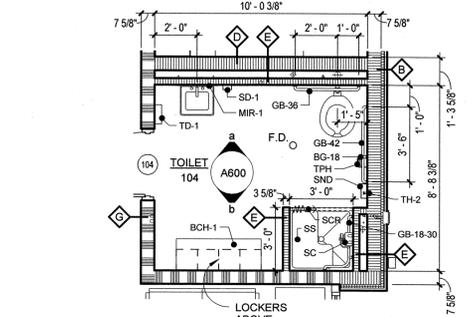
toilet 101B
3/8" = 1'-0"



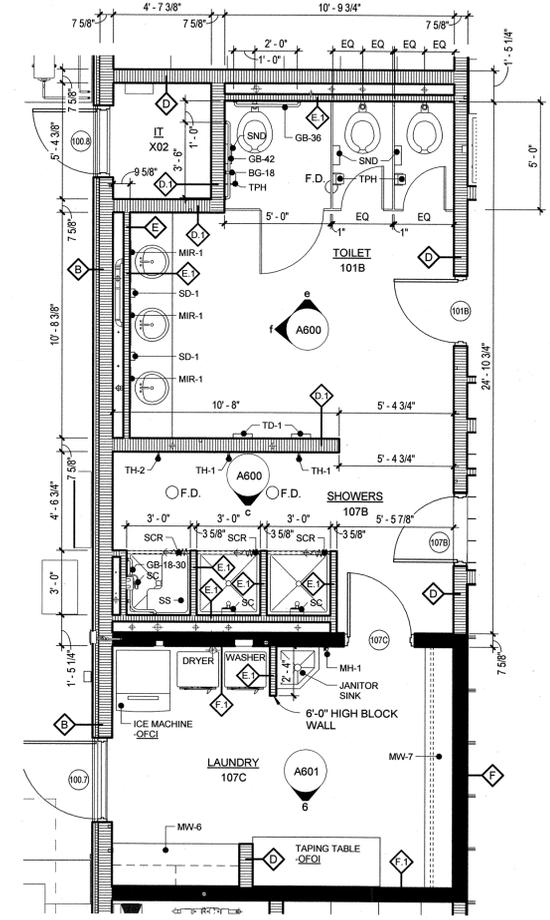
showers 107B
3/8" = 1'-0"



toilet 104
3/8" = 1'-0"



toilet 104
SCALE: 1/4" = 1'-0"



showers 107B/toilet 101B
SCALE: 1/4" = 1'-0"

Revision Schedule	Issued by
Rev. Description	Rev. Date
Tag	



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12012 - IC

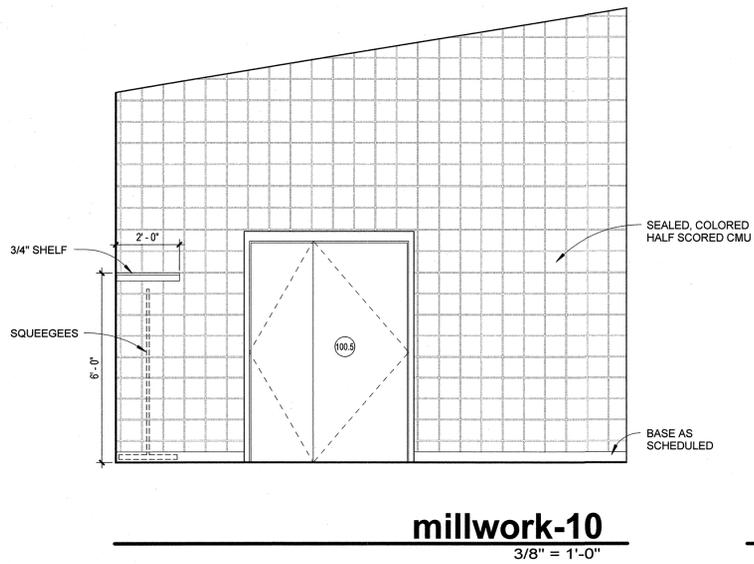
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Date: May 16, 2014

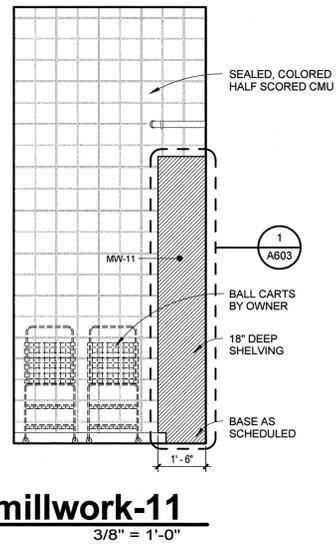


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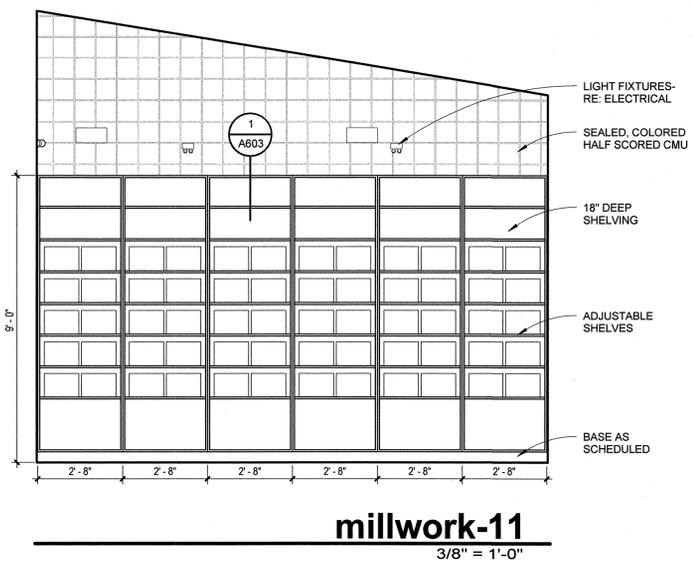
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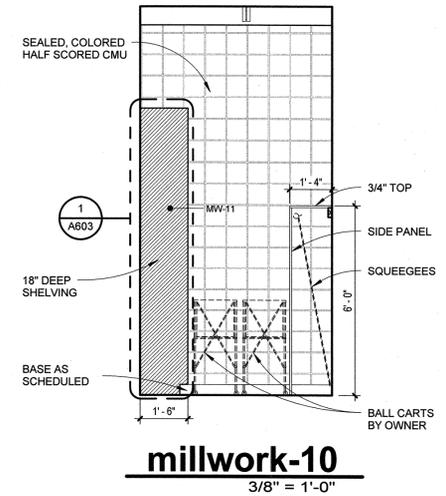
millwork-10
3/8" = 1'-0"



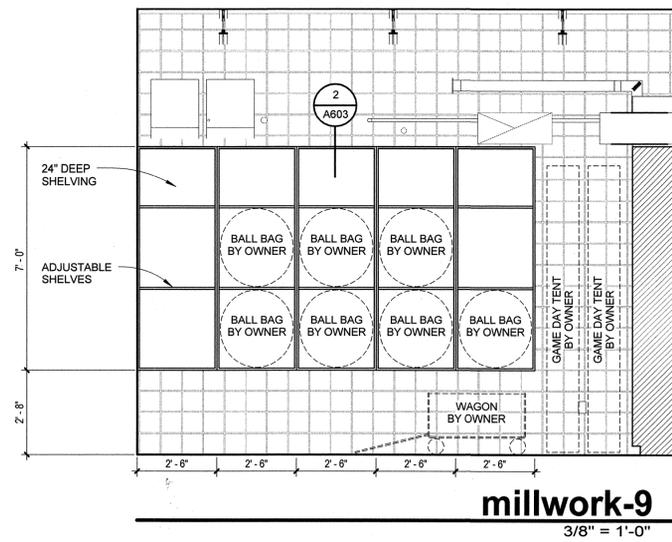
millwork-11
3/8" = 1'-0"



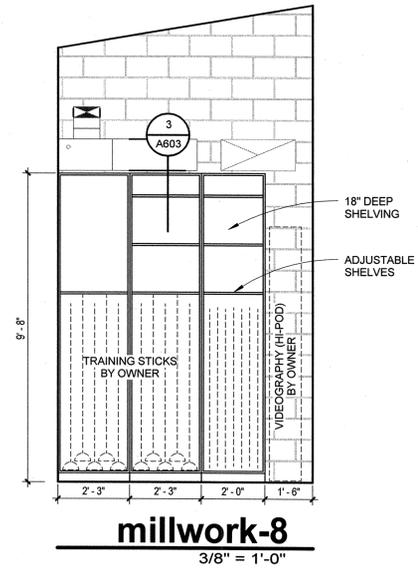
millwork-11
3/8" = 1'-0"



millwork-10
3/8" = 1'-0"



millwork-9
3/8" = 1'-0"



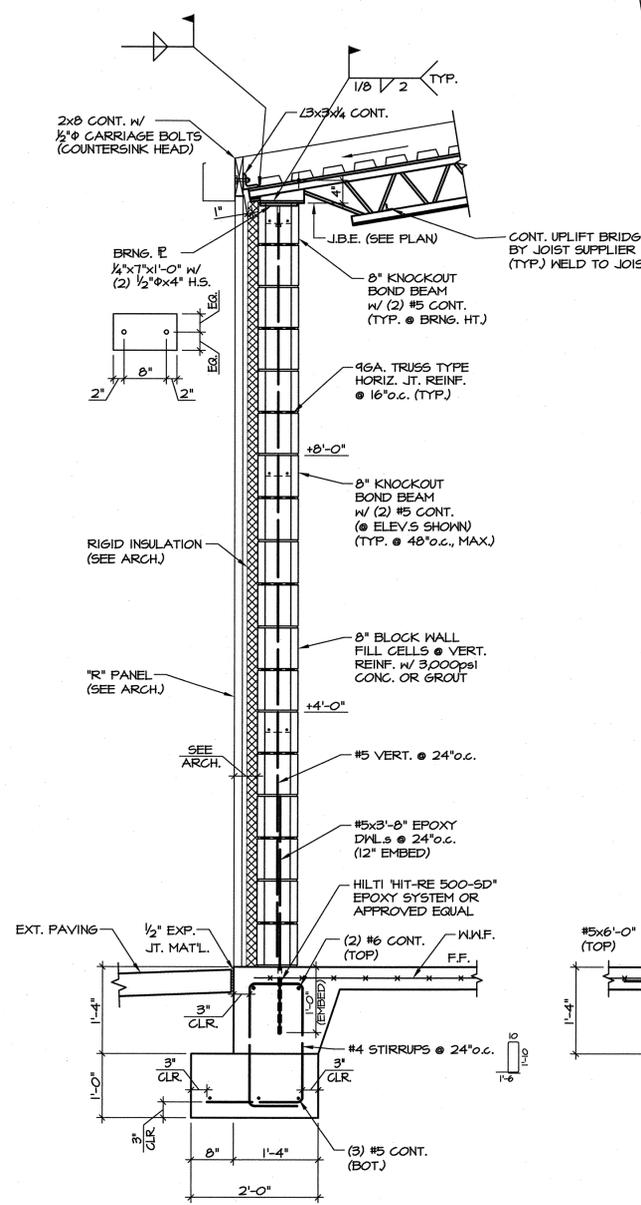
millwork-8
3/8" = 1'-0"

Revision Schedule		
Tag	Rev. Description	Rev. Date

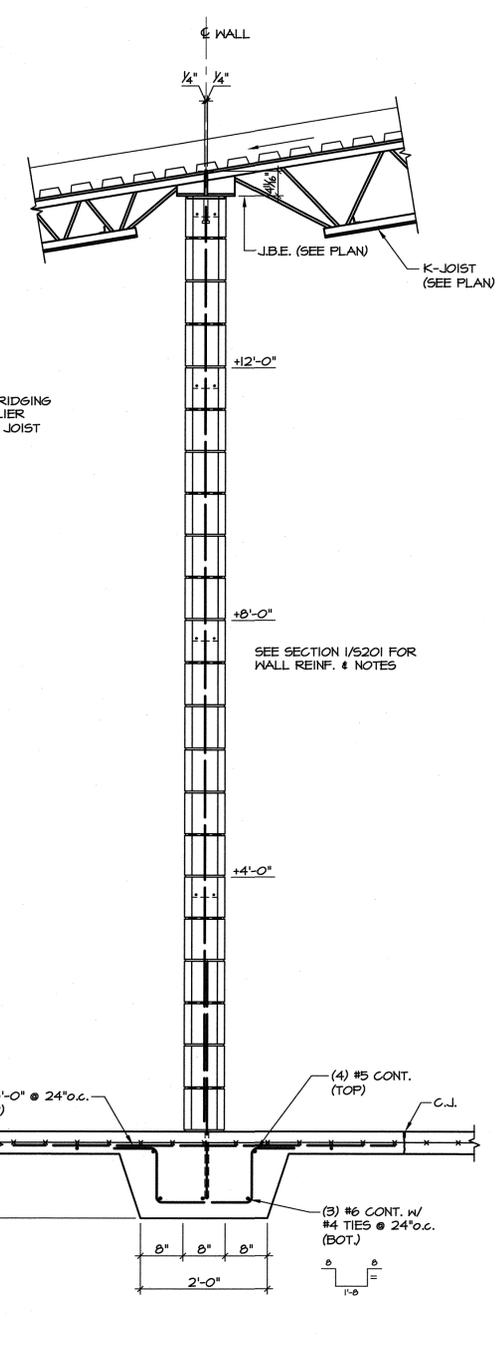


Commission Number
12012 - 1C
A602
Date: May 16, 2014

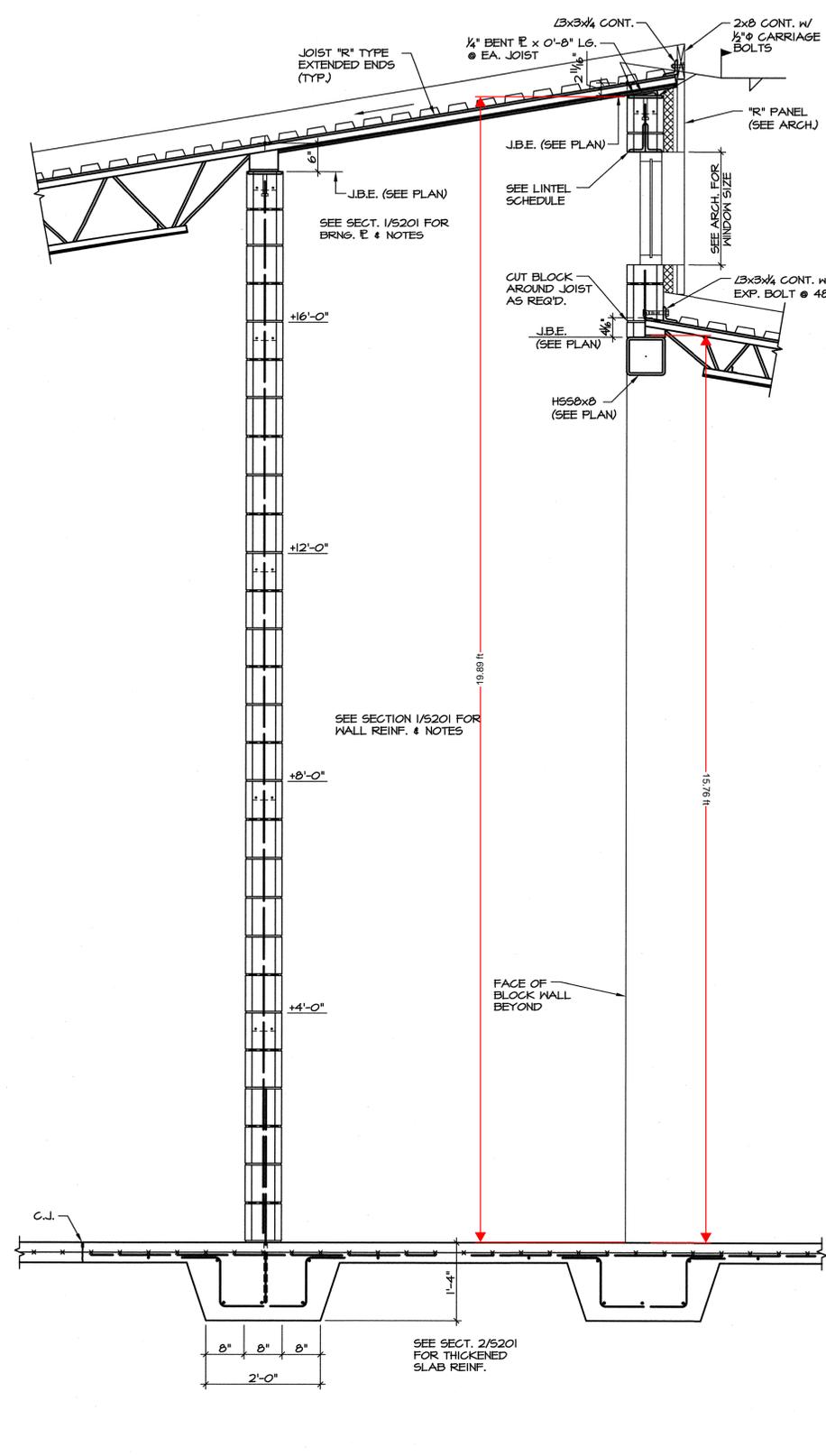
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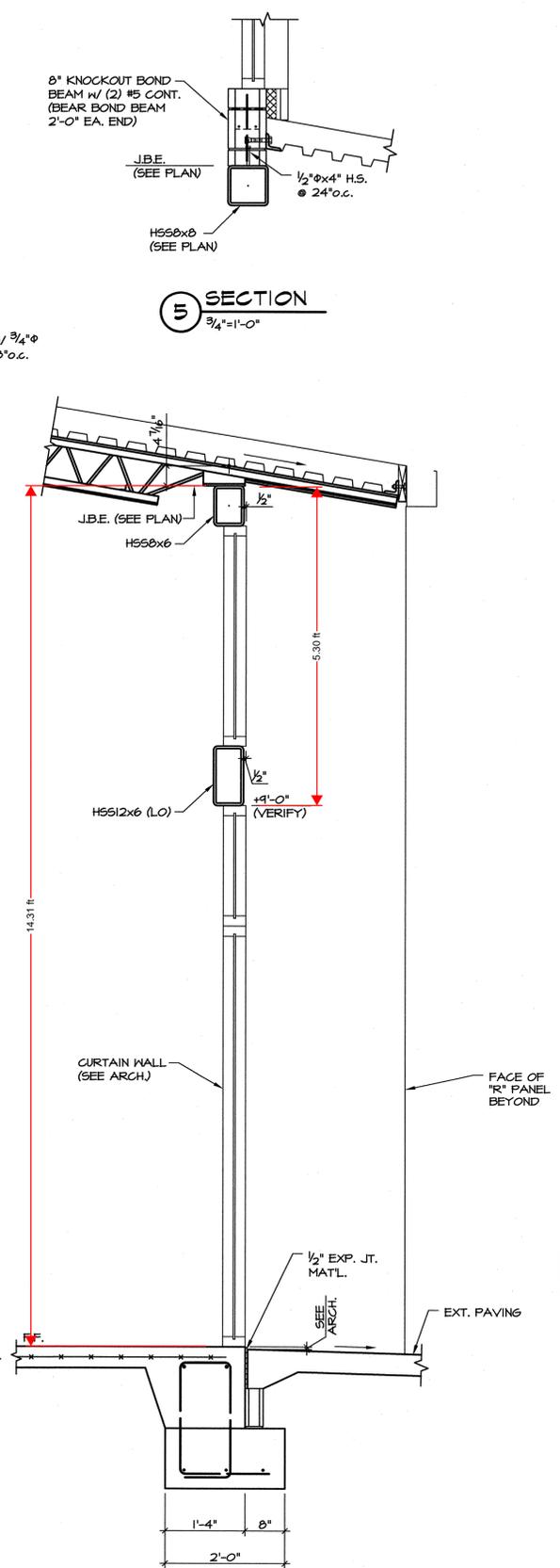
SECTION 1
3/4"=1'-0"



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



SECTION 3
3/4"=1'-0"



SECTION 4
3/4"=1'-0"

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Engineering Consultants, Inc.
Structural Engineers

401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
Fax No: (501) 376-7314
ECI Job No: 14-133

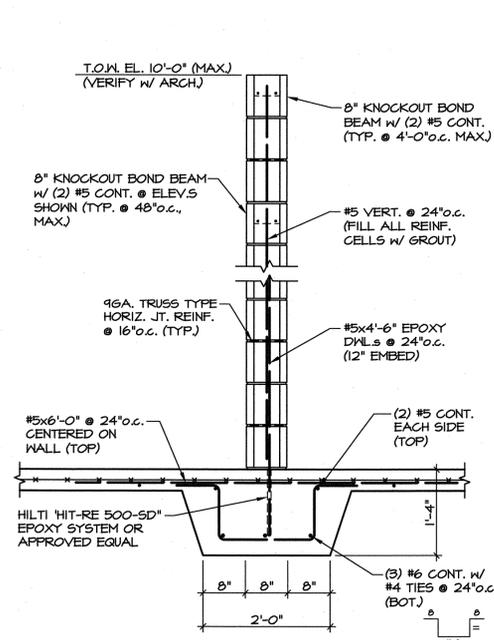
Frank M. Allison
REGISTERED PROFESSIONAL ENGINEER
No. 5880
FRANK M. ALLISON

Commission Number
12012 - IC

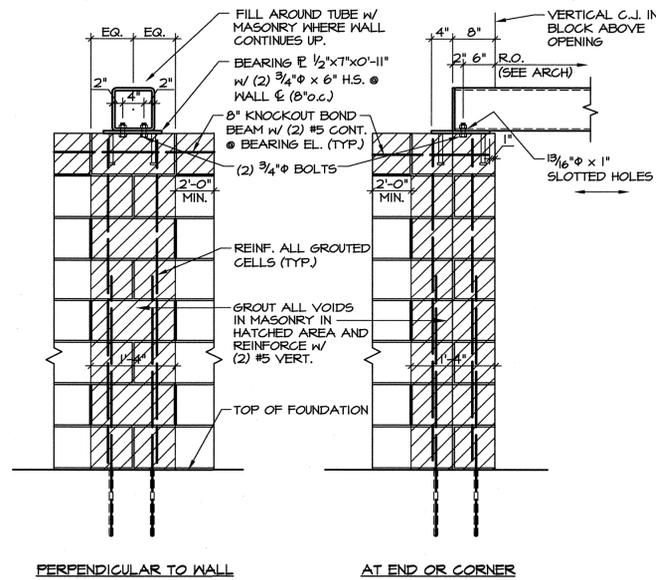
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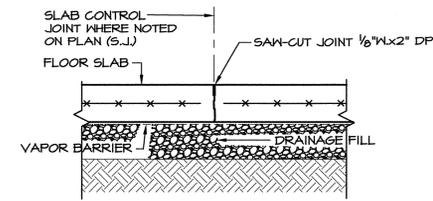
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1 THICKENED SLAB DETAIL
N.T.S.

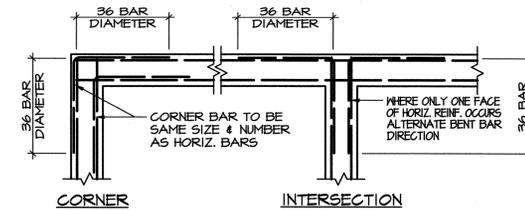


2 TYP. BEAM BRNG. ON MASONRY WALL
N.T.S.



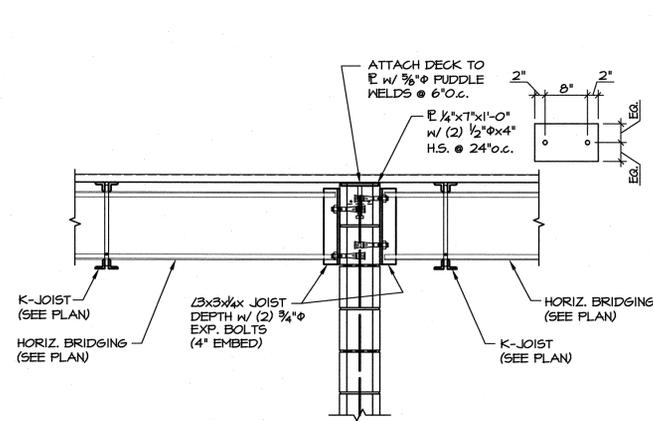
CONTRACTOR: IF SAW JOINTS ARE USED, CONTRACTOR IS RESPONSIBLE FOR JOINTS CRACKING AS SHOWN ON PLAN AND DETAIL. SAWING JOINTS SHALL BEGIN AS SOON AS THE SURFACE IS FIRM ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED BY THE BLADE.
SLABS MUST BE SAWN ON SAME DAY SLAB IS POURED.
DO NOT ALLOW SLAB TO CURE OVERNIGHT BEFORE SAWING.

3 CONTROL JOINT DETAIL
N.T.S.

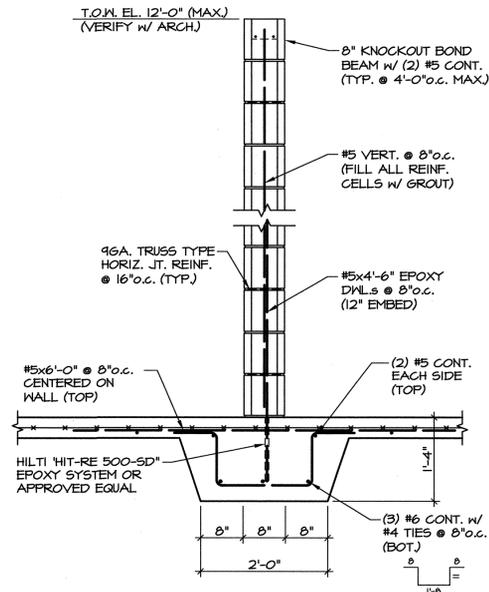


TYPICAL FOR:
CONC. FOOTINGS
CONC. FILLED BOND BEAMS
THICKENED SLABS
CONC. WALLS
CONC. BEAMS

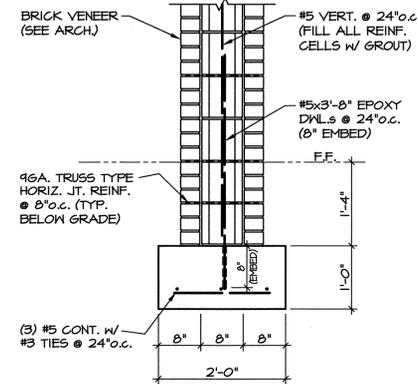
4 TYPICAL CORNER BAR DETAIL
N.T.S.



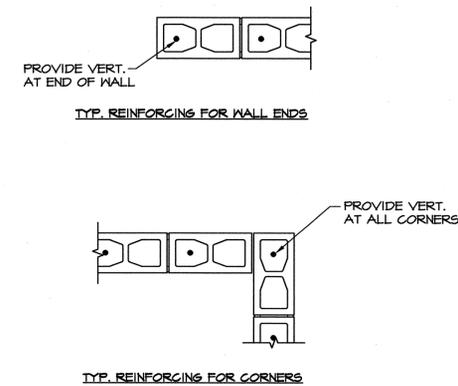
5 SECTION
3/4"=1'-0"



6 THICKENED SLAB DETAIL
N.T.S.



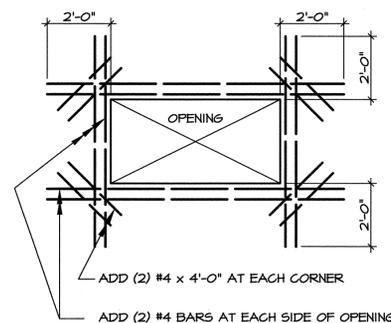
7 SECTION
3/4"=1'-0"



8 TYPICAL BLOCK WALL REINFORCING
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	13/16x3 1/2x 3/4	15x3 1/2x 3/16 (LLV)	16x3 1/2x 3/16 (LLV)	16x3 1/2x 3/16 (LLV)	16x3 1/2x 3/16 (LLV)
4" INTERIOR BLOCK	(2) 1 1/2x1 1/2x 3/16				
6" BLOCK	6" WIDE x 8" HIGH LINTEL BLK. w/ (2) #5	(2) 13 1/2x2 1/2x 3/8			
8" BLOCK	8"x8" LINTEL BLK. w/ (2) #5	(2) 15x3 1/2x 3/16 (LLV)	(2) 16x3 1/2x 3/16 (LLV)	(2) 16x3 1/2x 3/16 (LLV)	(2) 16x3 1/2x 3/16 (LLV)
12" (8" BLK. & 4" BRICK)	8"x8" LINTEL BLK. w/ (2) #5 & 13 1/2x3 1/2x 1/4	(3) 15x3 1/2x 3/16 (LLV)	(3) 16x3 1/2x 3/16 (LLV)		

- LINTEL SCHEDULE APPLIES UNLESS NOTED OR DETAILED OTHERWISE.
- WHERE ANGLES ARE BACK TO BACK, WELD TOGETHER WITH LONG LEGS VERTICAL (LLV), @ 12" INTERVALS.
- 8" BEARING @ EA. END, MINIMUM.
- USE 3,000 PSI CONCRETE IN LINTEL BLOCKS.
- FILL CELLS BELOW LINTEL BEARING W/ CONCRETE FULL HEIGHT, (PROVIDE (1) #5 VERTICAL BAR IN EACH CELL).



9 OPENING IN SLAB DETAIL
N.T.S.

Revision Schedule	Issued by
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Structural Engineers

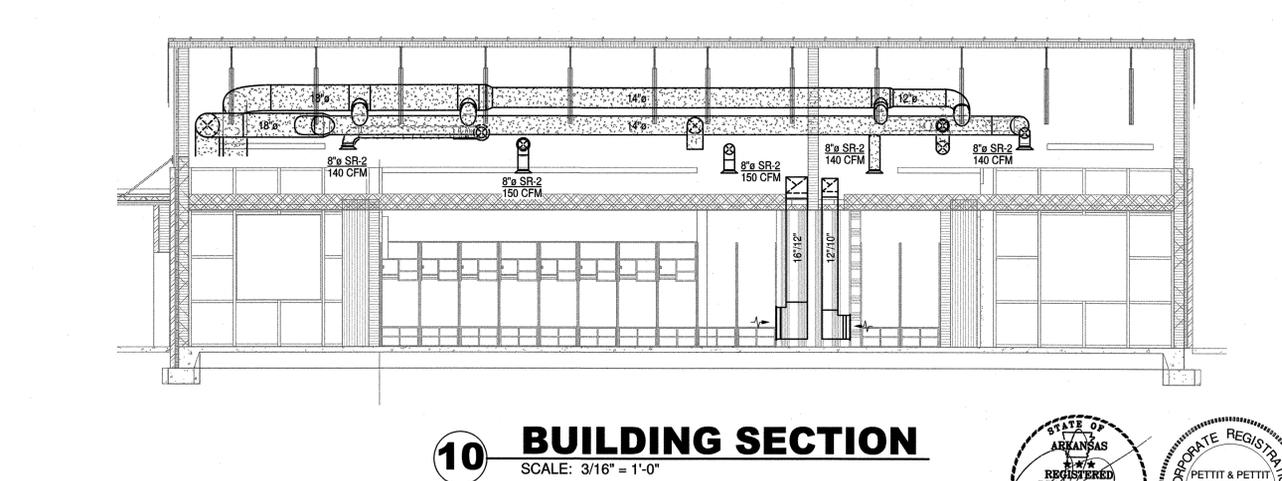
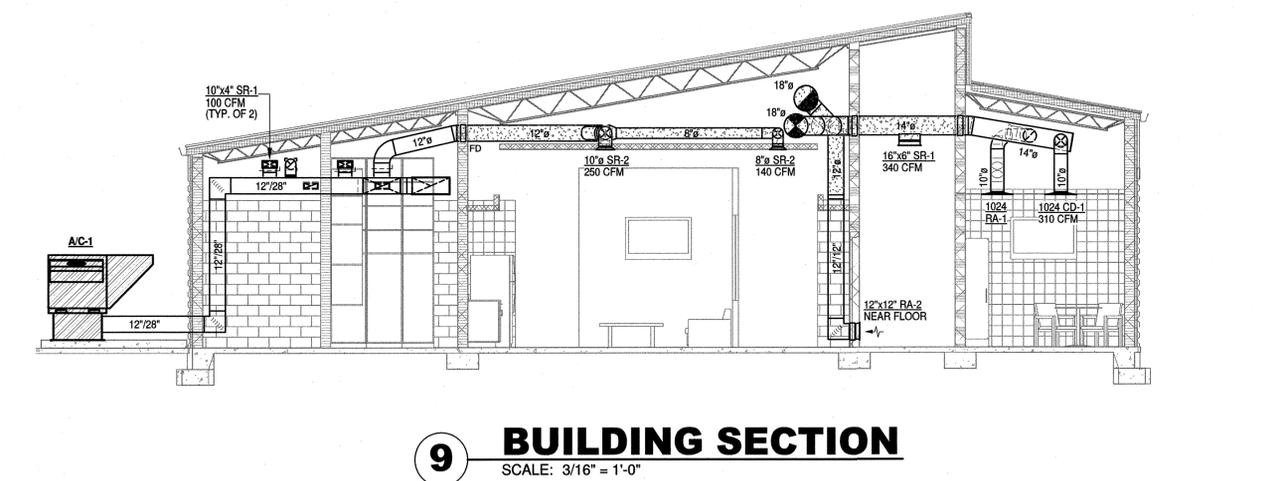
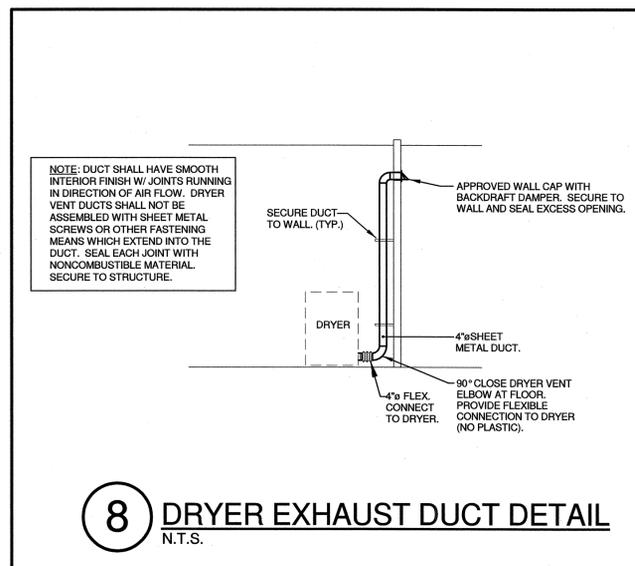
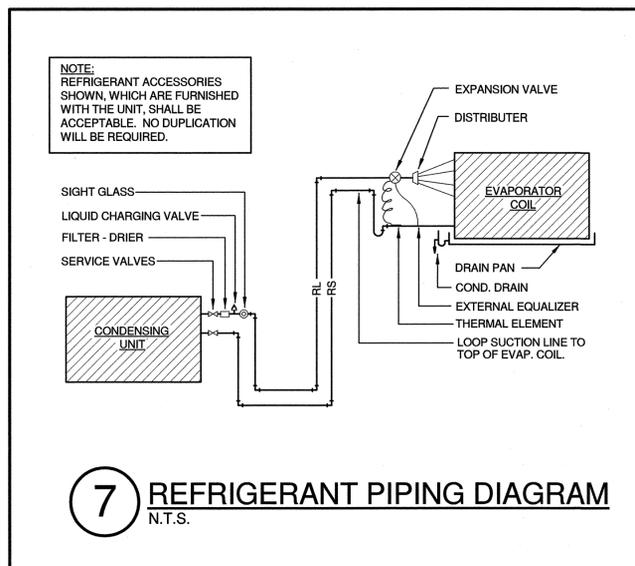
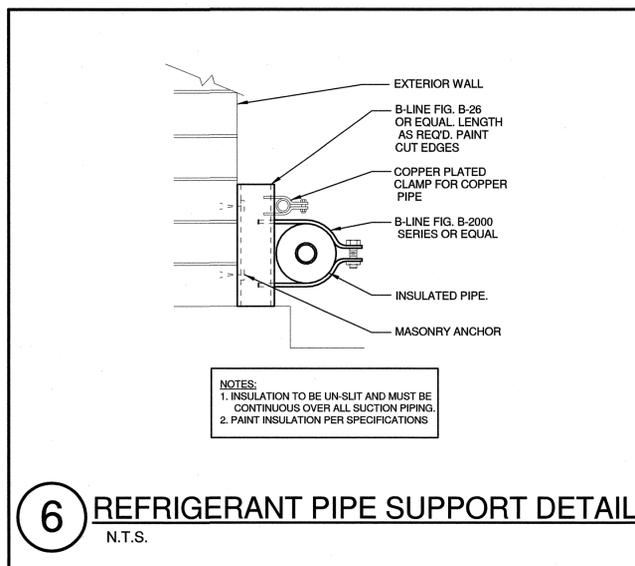
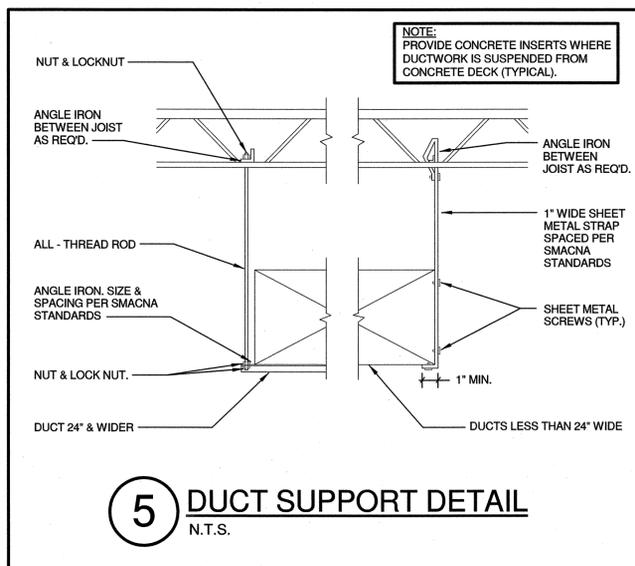
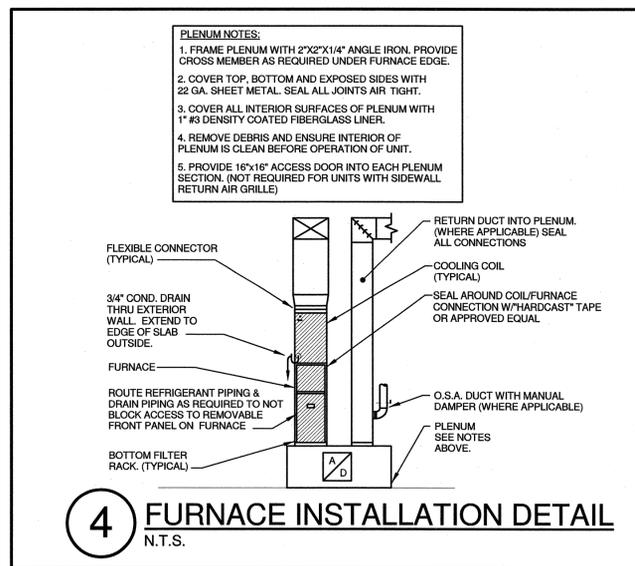
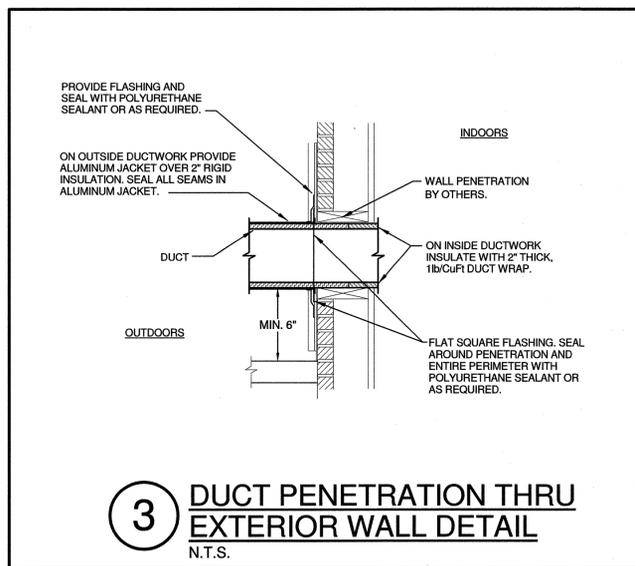
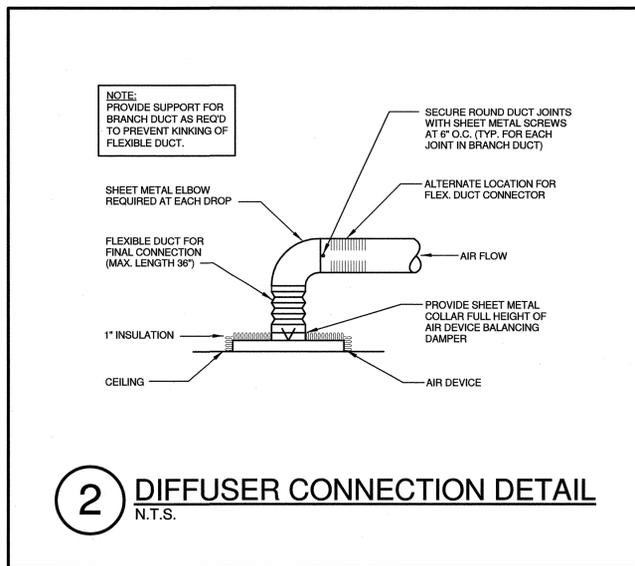
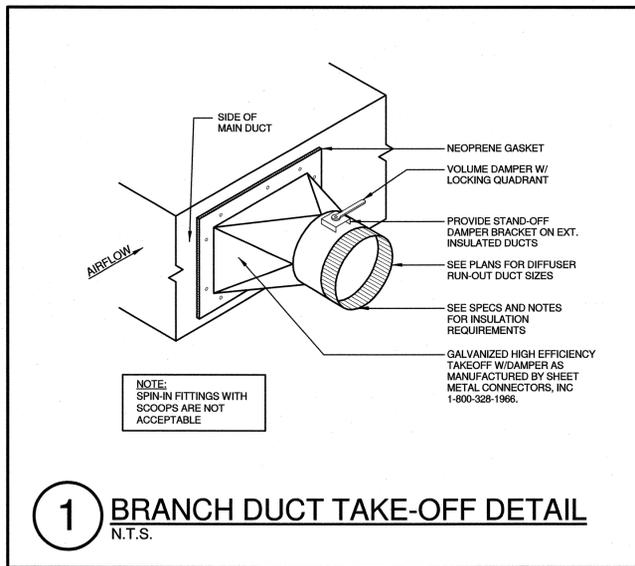
401 West Capitol Avenue, Suite 305
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ECI Job No: 14-133

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
FRANK M. ALLISON
No. 5920

Commission Number
12012 - IC

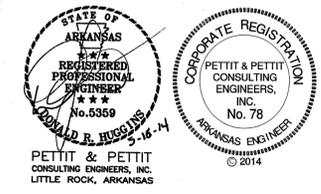
S203

Date: May 16, 2014



RED WOLVES
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SOCCER & TENNIS FACILITY
ARKANSAS STATE UNIVERSITY
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FIXTURE LEGEND	
SYMBOL	DESCRIPTION
	NEW FIXTURE
	ROUGH IN AND FINAL CONNECT ONLY

PLUMBING GENERAL NOTES	
1.	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 OTHERWISE. WATER CLOSET _____ 1" URINAL _____ 1" 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 BIBB _____ 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 DETAILLED 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.	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.
9.	WHERE PLUMBING FIXTURES ARE LOCATED ON EXTERIOR WALL, WATER PIPING SHALL BE INSTALLED ON THE THERMAL SIDE OF THE WALL INSULATION.
10.	CLOSE COORDINATION AND COOPERATION SHALL BE MAINTAINED BETWEEN TRADES WITH REGARD TO PLUMBING, HVAC, AND ELECTRICAL PLANS.
11.	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.
12.	PROVIDE FIRE STOPPING OR FIRE STOP SLEEVE DEVICES AT ALL RATED ASSEMBLIES - SEE ARCHITECTURAL SPECIFICATIONS AND ARCHITECTURAL DRAWINGS FOR DETAILS.
13.	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 DRAWINGS.
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 CLEANOUT)
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 LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SOIL, WASTE, OR SANITARY SEWER		UNION
	SANITARY SEWER (ON SITE)	FD	FLOOR DRAIN
	SANITARY VENT	RD	ROOF DRAIN
	COMBINATION WASTE AND VENT	AD	ACCESS DOOR
	WATER (ON SITE)	VTR	VENT THRU ROOF
	COLD WATER	HB	HOSE BIBB
	HOT WATER	FPWH	FREEZE PROOF WALL HYDRANT
	HOT WATER RETURN	CO	CLEANOUT PLUG
	STORM DRAIN	FCO	FLOOR CLEANOUT
	INDIRECT DRAIN	AFCO	FLOOR CLEANOUT WITH ACID RESISTANT PIPING AND FITTINGS
	NATURAL GAS (LOW PRESSURE GAS)	WCO	WALL CLEANOUT
	FLOW DIRECTION	ECO	EXTERIOR CLEANOUT
	GATE VALVE		NOTES - SANITARY VENT STACK THRU ROOF
	GLOBE VALVE		RISE DESIGNATION
	CHECK VALVE		NEW CONNECTION TO EXISTING
	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

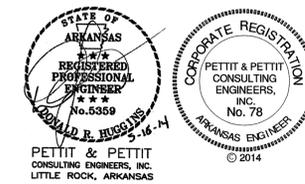
GENERAL PLUMBING SPECIFICATIONS	
1.	ALL PLUMBING WORK SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE AND ALL LOCAL CODES.
2.	ALL WORK WILL COMPLY WITH ALL APPLICABLE CODES, AND THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES AND LATERAL COSTS PERTAINING TO HIS WORK.
3.	DOMESTIC WATER PIPING - TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS AND "BRIGIT" LEAD FREE SOLDER MADE IN U.S.A. 1/2" 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 1/2" AND SMALLER SHALL BE DWV COPPER. EXTERIOR SANITARY SERVICE LINE SHALL ALSO BE CAST IRON.
5.	ESCUTCHEONS: WILL BE PROVIDED ON PIPING THAT PASSES THROUGH BUILDING CONSTRUCTION IN EXPOSED AREAS.
6.	VALVES: 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 VALVES, NIBCO NO. T-585-70-66, OR APOLLO NO. 77-140. GAS VALVES MCDONNELL #11688.
7.	PIPE HANGERS: ALL PIPING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE ON APPROVED HANGERS.
8.	STERILIZATION OF WATER PIPING - 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.	CLEANOUTS: 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.	CUTTING AND PATCHING - SHALL BE BY GENERAL CONTRACTOR.



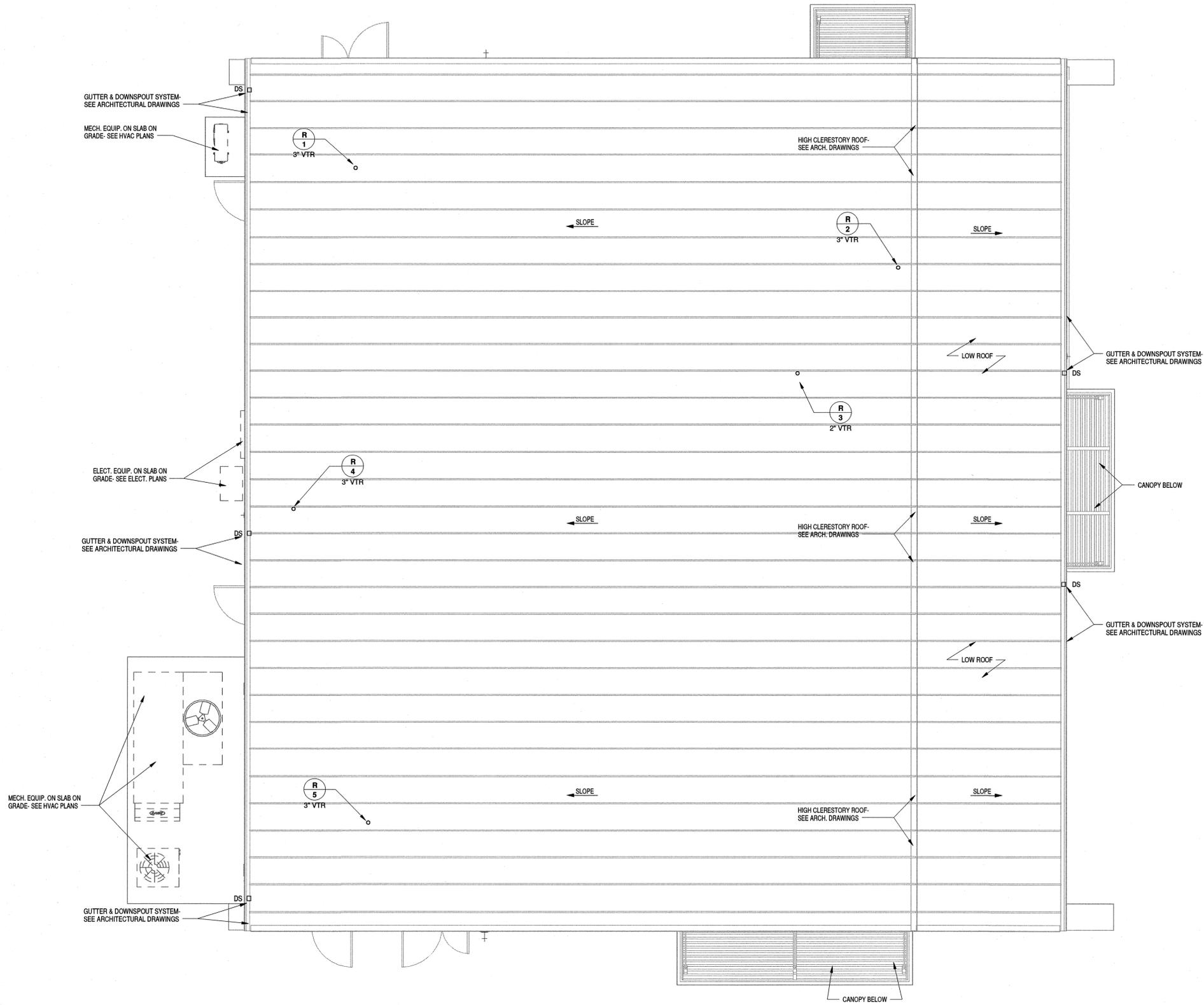
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 PHASE 1C - SOCCER & TENNIS FACILITY
 Jonesboro, Arkansas

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 KRENNERICH
 architects

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ROOF PLAN - PLUMBING
 SCALE: 1/4" = 1'-0"



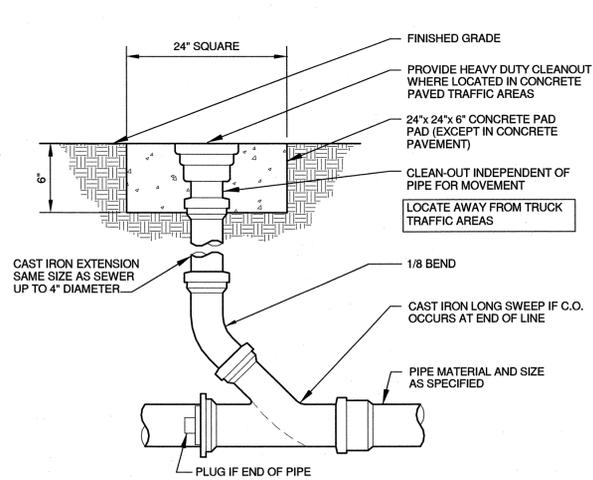
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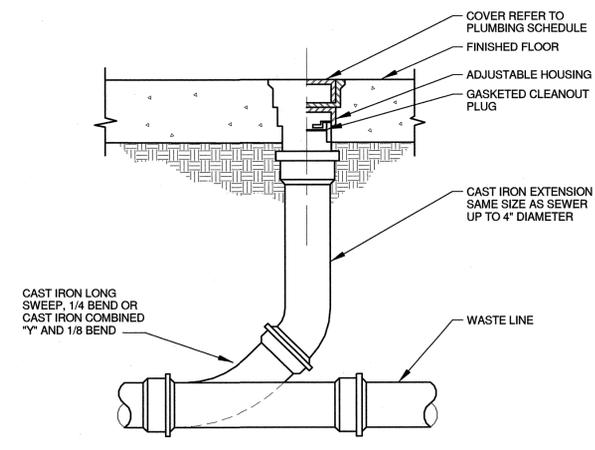
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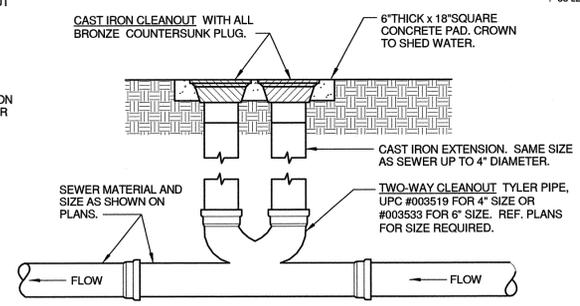
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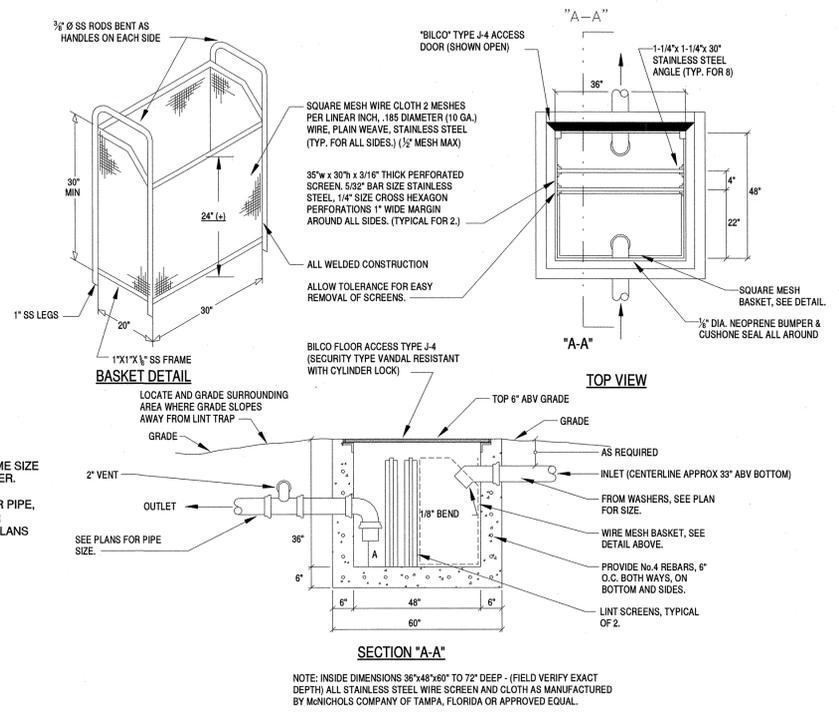
1 EXTERIOR CLEAN-OUT (ECO)
SCALE: NONE



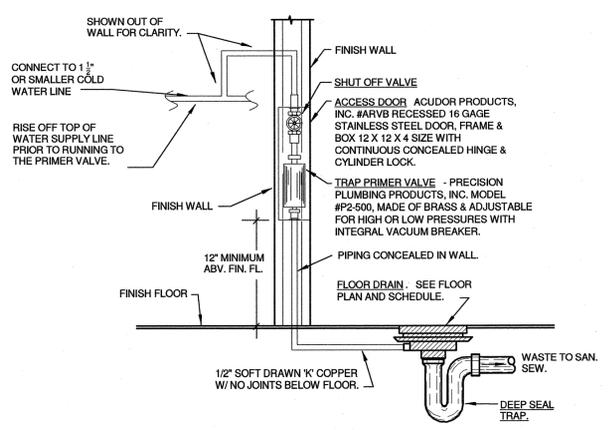
2 FLOOR CLEAN-OUT (FCO)
SCALE: NONE



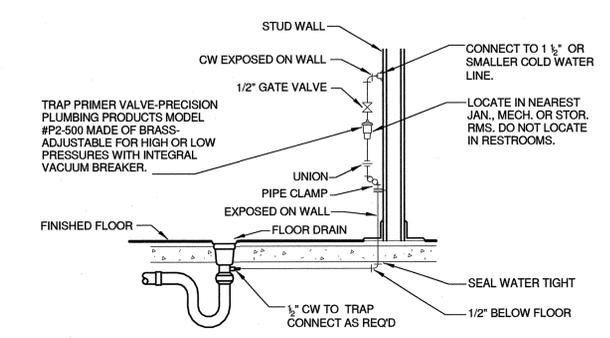
3 TWO-WAY CLEANOUT TO GRADE DETAIL
SCALE: NONE



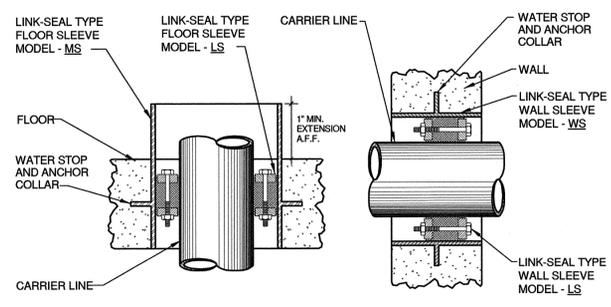
4 LINT TRAP DETAIL
SCALE: NONE



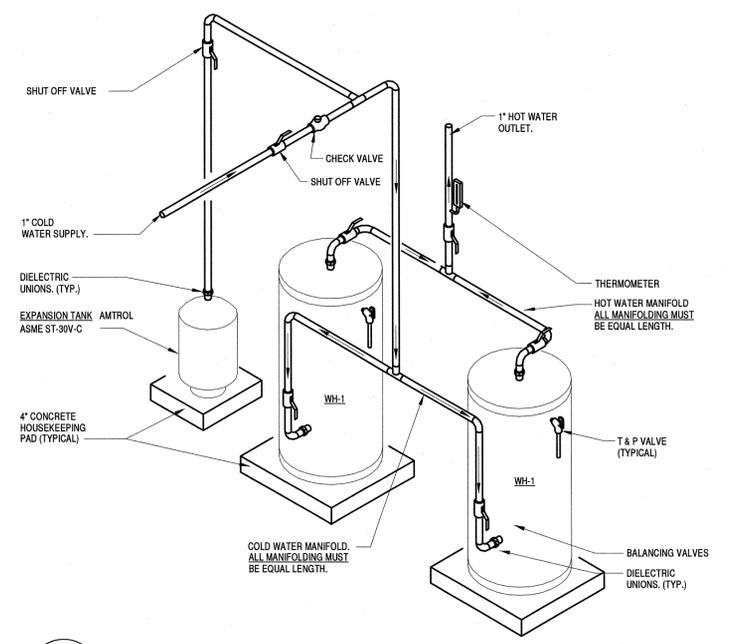
5 TRAP PRIMER DETAIL
SCALE: NONE (FOR CONCEALED LOCATIONS)



6 TRAP PRIMER TO FLOOR DRAIN
SCALE: NONE (FOR EXPOSED LOCATIONS)

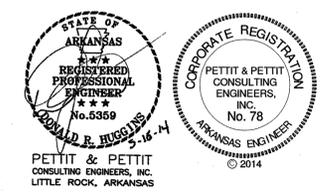


7 WATERPROOF SLEEVE DETAIL
SCALE: NONE (TYPICAL FOR ALL MAIN WATER AND FIRE PIPE PENETRATIONS THROUGH GROUND FLOOR SLABS AND WALLS THAT ARE BELOW GRADE)



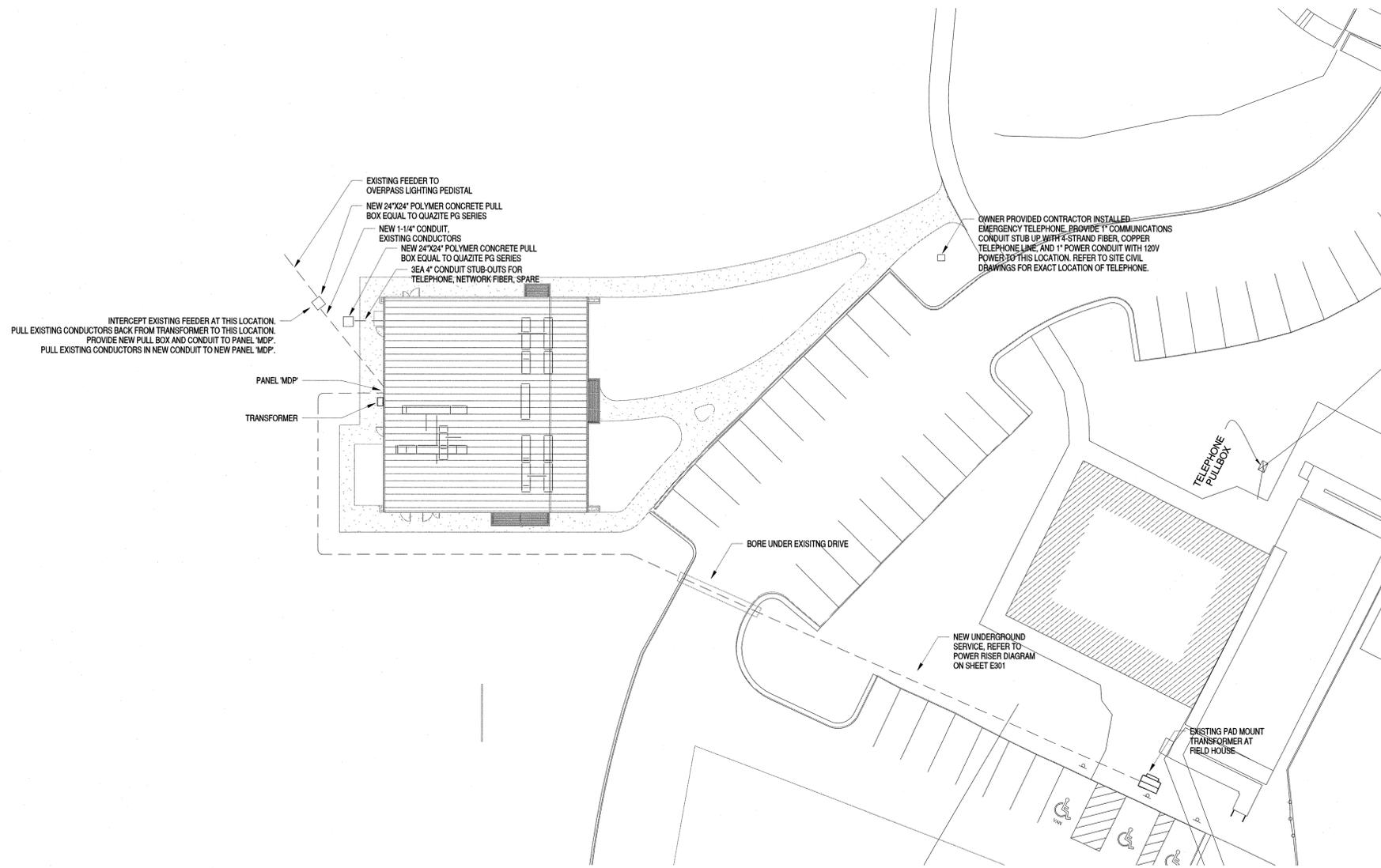
8 ELECTRIC WATER HEATERS DETAIL
SCALE: NONE

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 ARKANSAS STATE



OVERALL SITE ELECTRICAL PLAN

SCALE: 1" = 20'-0"



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SYSTEMS GENERAL NOTES

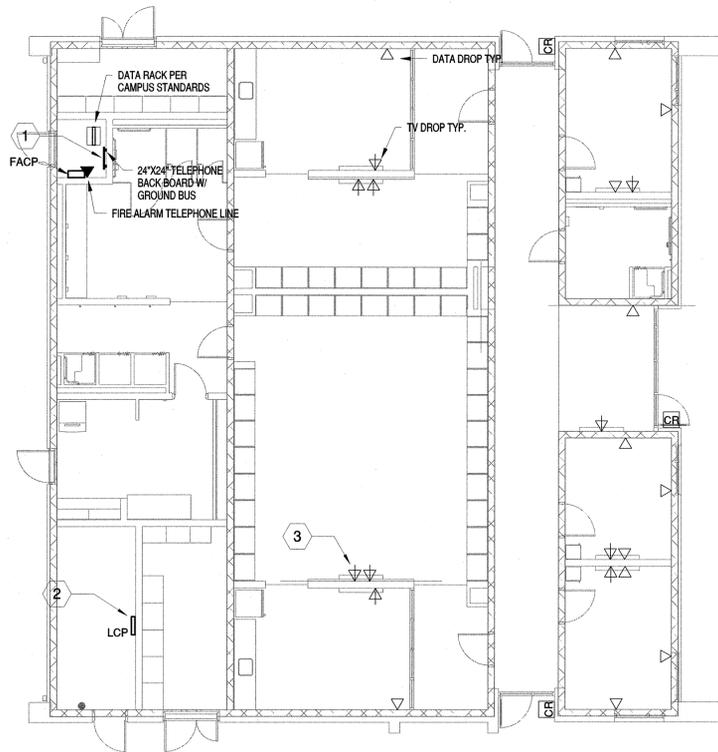
- A. ALL NETWORK CABLE SHALL BE CAT6. TELEVISION COAX CABLE SHALL BE RG6. ALL CABLING SHALL BE PLENUM RATED. COORDINATE CABLE COLOR WITH OWNER.
- B. COORDINATE THE EXACT LOCATION OF NETWORK DROPS WITH THE OWNER. COORDINATE LOCATION OF DATA DROPS WITH ELECTRICAL OUTLETS. PROVIDE 1" SEPARATION BETWEEN 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.
- E. THE EXACT LOCATION OF ALL SECURITY DEVICES (CAMERAS, CARD READERS, KEYPADS, MOTION SENSORS, ETC) SHALL BE COORDINATED WITH THE OWNER PRIOR TO INSTALLATION.
- F. 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.
- 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.
- I. 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

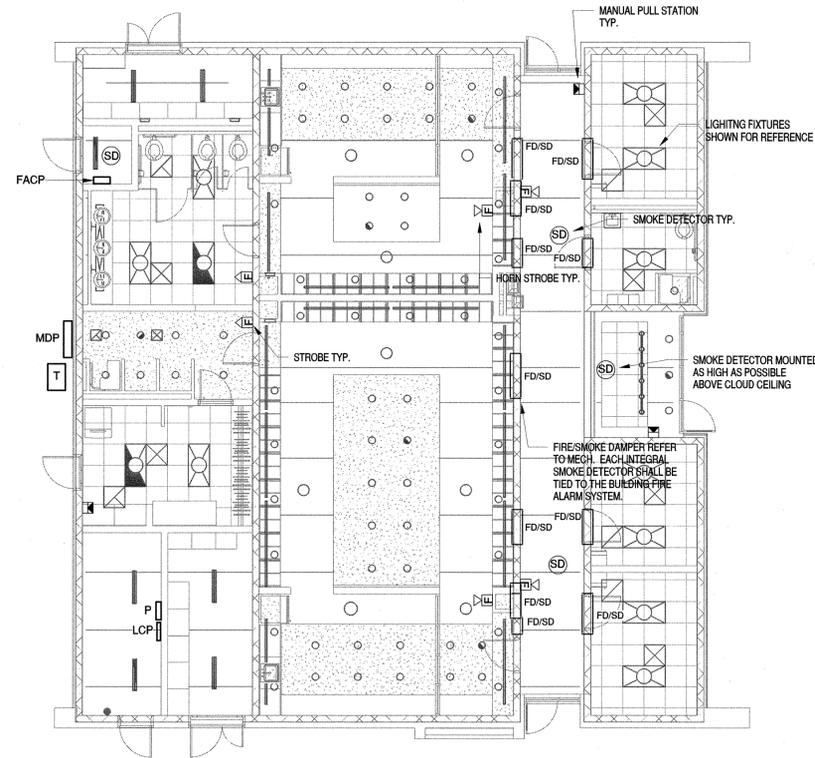
- A. FIRE ALARM SYSTEM SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL FIRE ALARM CODE, NFPA 72.
- B. ONE SET OF APPROVED DRAWINGS SHALL BE MAINTAINED ON-SITE AND MADE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
- C. ALL SMOKE DAMPERS SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM. REFER TO MECHANICAL FOR DAMPER LOCATIONS.
- 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. LISTED SYSTEM.
- G. INTERFACE FIRE ALARM SYSTEM WITH ACCESS CONTROL SYSTEM FOR AUTOMATIC RELEASE OF CARD READER CONTROLLED DOORS UPON ACTIVATION OF FIRE ALARM SYSTEM.

SYSTEMS & FIRE ALARM KEYED NOTES

- 1 STUB OUT SEA. 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, NETWORK, AND TELEVISION CONNECTION TO BUILDING. COORDINATE THE EXACT LOCATION OF TELECOM HANDHOLE WITH THE OWNER.
- 2 PROVIDE NETWORK CONNECTION TO LIGHTING CONTROL PANEL FOR INTEGRATION INTO THE CAMPUS LIGHTING CONTROL SYSTEM.
- 3 COORDINATE EXACT HEIGHT AND LOCATION OF ALL TELEVISION OUTLETS WITH EQUIPMENT PROVIDED. ALL OUTLETS SHALL BE FULLY CONCEALED BEHIND TELEVISIONS.



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



2 CEILING PLAN - FIRE ALARM
1/8" = 1'-0"



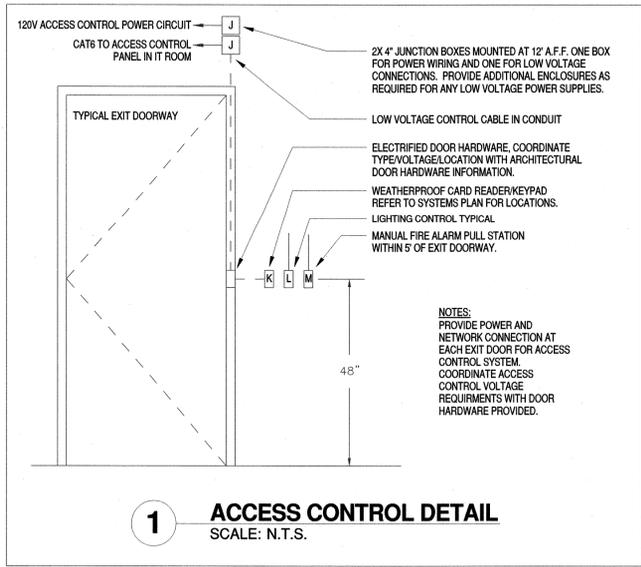
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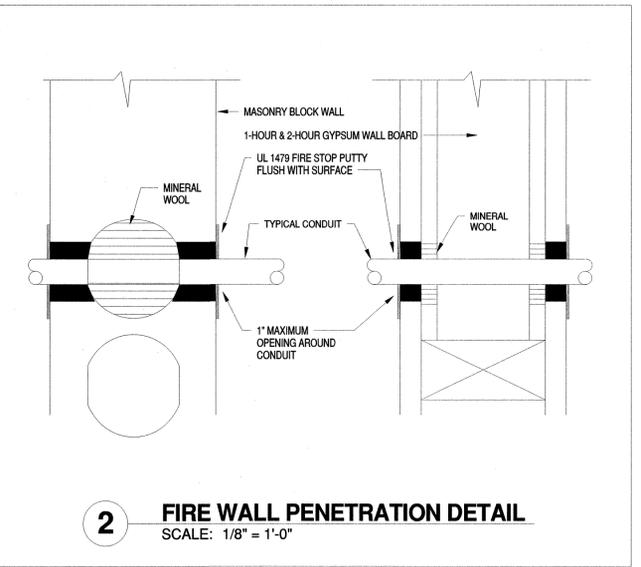
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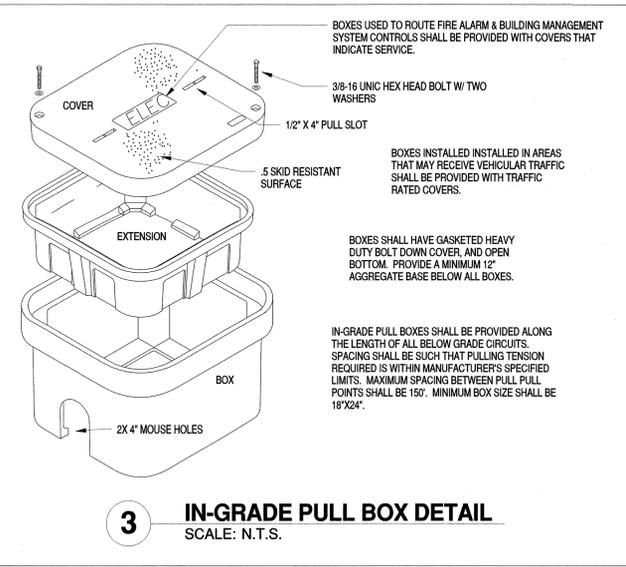
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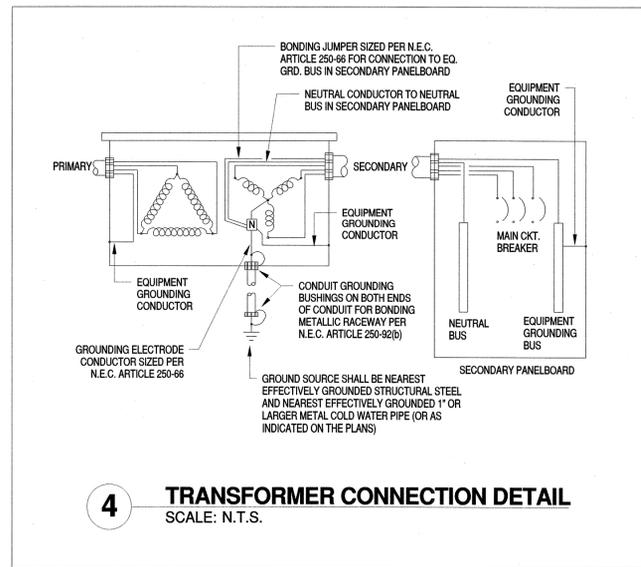
1 ACCESS CONTROL DETAIL
SCALE: N.T.S.



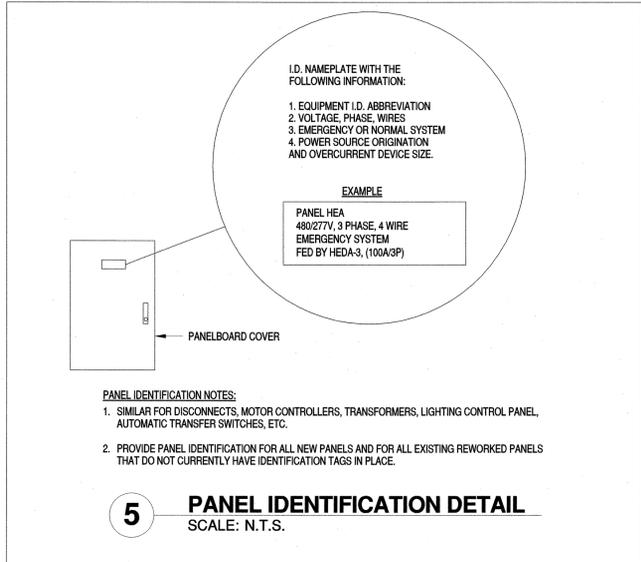
2 FIRE WALL PENETRATION DETAIL
SCALE: 1/8" = 1'-0"



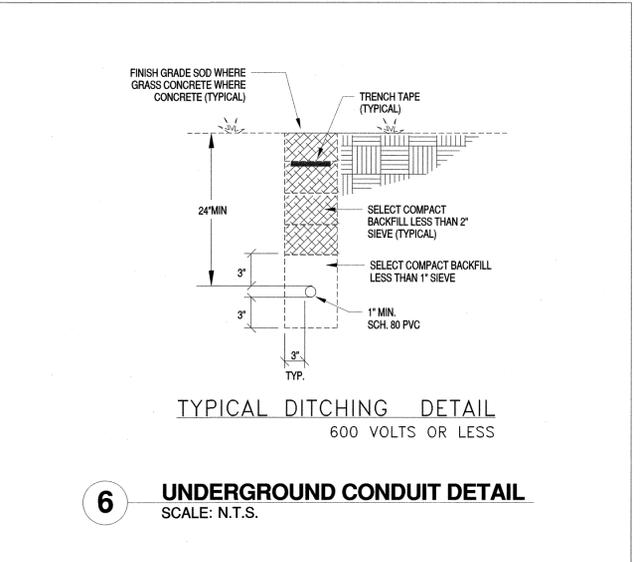
3 IN-GRADE PULL BOX DETAIL
SCALE: N.T.S.



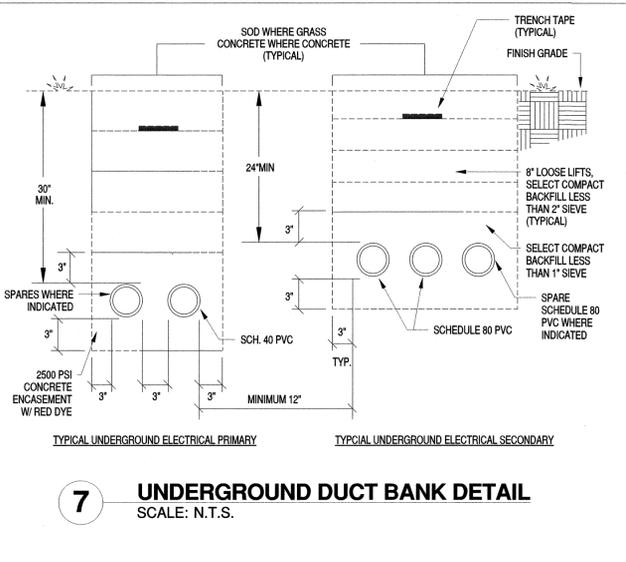
4 TRANSFORMER CONNECTION DETAIL
SCALE: N.T.S.



5 PANEL IDENTIFICATION DETAIL
SCALE: N.T.S.



6 UNDERGROUND CONDUIT DETAIL
SCALE: N.T.S.



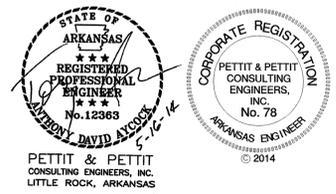
7 UNDERGROUND DUCT BANK DETAIL
SCALE: N.T.S.



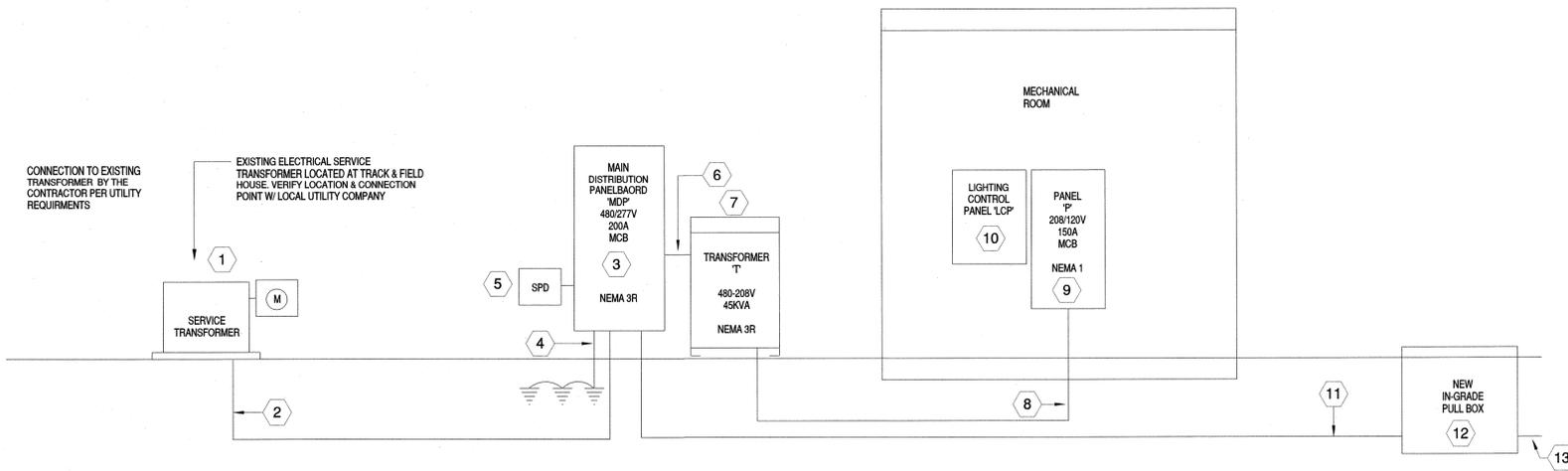
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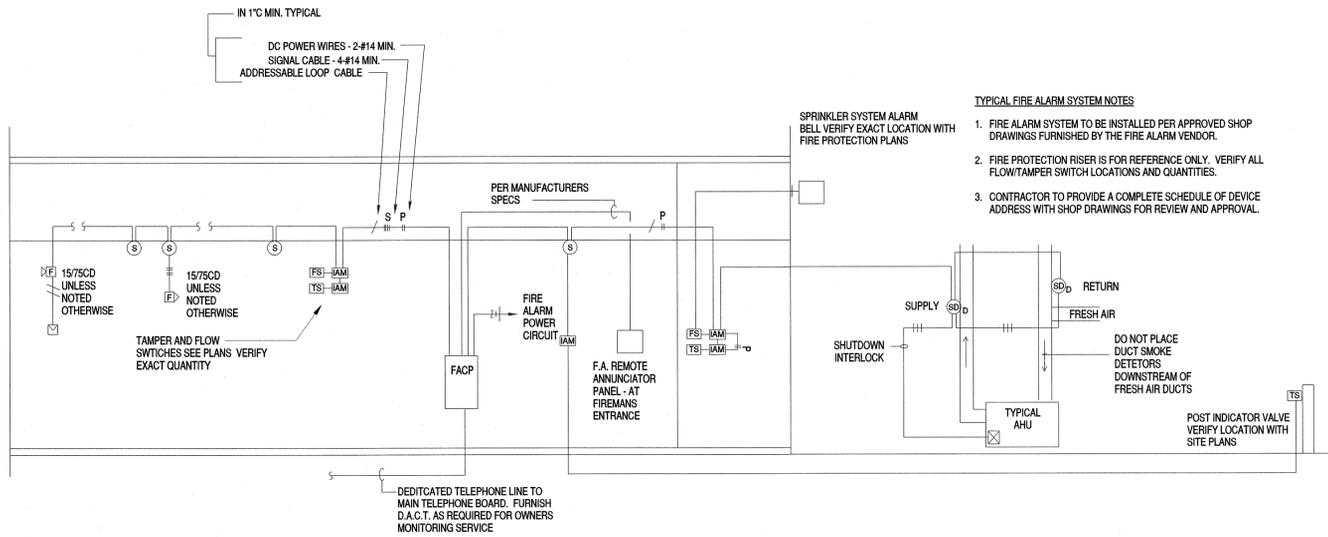
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1 POWER RISER DIAGRAM
SCALE: N.T.S.

POWER RISER KEYED NOTES:

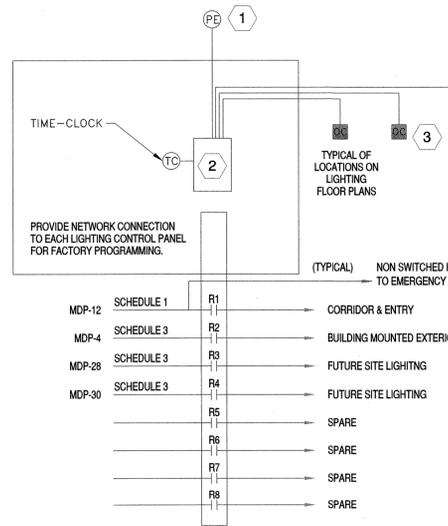
- 1 EXISTING PAD MOUNT TRANSFORMER AT FIELD HOUSE. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH NEW SERVICE.
- 2 SOCCER BUILDING SERVICE FEEDER, 3" C-44M/AWG
- 3 200A MAIN DISTRIBUTION PANELBOARD, NEMA 3R
- 4 #2/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR IN 3/4" CONDUIT TO THREE 3/4"x10" COPPER CLAD STEEL GROUNDING RODS SPACED A MINIMUM OF 20' APART. USE EXOTHERMIC WELDS FOR ALL CONNECTIONS BELOW GRADE.
- 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
- 7 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#10, 1#10(N), 1#6(G)
- 9 PANEL 'P', 150A MAIN CIRCUIT BREAKER, NEMA 1, PANELBOARD
- 10 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 CIRCUITS.
- 11 NEW OVERPASS LIGHTING FEEDER, 1-1/4" CONDUIT WITH EXISTING #8AWG 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.
- 13 EXISTING CONDUIT AND CONDUCTORS TO OVERPASS LIGHTING PANEL



2 FIRE ALARM RISER DIAGRAM
SCALE: N.T.S.

TYPICAL FIRE ALARM SYSTEM NOTES

1. FIRE ALARM SYSTEM TO BE INSTALLED PER APPROVED SHOP DRAWINGS FURNISHED BY THE FIRE ALARM VENDOR.
2. FIRE PROTECTION RISER IS FOR REFERENCE ONLY. VERIFY ALL FLOW/TAMPER SWITCH LOCATIONS AND QUANTITIES.
3. CONTRACTOR TO PROVIDE A COMPLETE SCHEDULE OF DEVICE ADDRESS WITH SHOP DRAWINGS FOR REVIEW AND APPROVAL.



SYSTEM SHALL BE EQUAL TO LOAD BLUE BOX MEETING REQUIREMENTS OF ASHRAE 90.1-2001.

- 1 P.E. CELL, FIELD LOCATE
- 2 MASTER PROGRAMMABLE LIGHTING CONTROL RELAY PANEL TO BE EQUAL TO LOAD BLUE BOX. ALL TIMES/EVENTS, PROGRAMMED AT THIS PANEL.
- 3 OFF OVERRIDE BY OCCUPANCY SENSOR. ALL OCCUPANCY SENSORS WITHIN THE BUILDING SHALL REPORT STATUS TO LIGHTING CONTROL PANEL.

- SCHEDULE 1 - EMPLOYEE ONLY COMMON SPACES (CORRIDORS, RESTROOMS) OCCUPIED - NORMAL WORKING HOUR PERIOD, SUN THROUGH SAT UNOCCUPIED - HOLIDAYS AND NON WORKING HOUR PERIOD
- SCHEDULE 2 - SPACES OPEN TO PUBLIC (EXHIBIT GALLERY, LOBBIES, PUBLIC RESTROOMS) OCCUPIED - OPEN TO PUBLIC HOURS, SUNDAY THROUGH SATURDAY UNOCCUPIED - CLOSED TO PUBLIC HOURS
- SCHEDULE 3 - P.E./TIMECLOCK CONTROL OF EXTERIOR LIGHTING.
- SCHEDULE 4 - SCHEDULE PER OWNER DIRECTION.

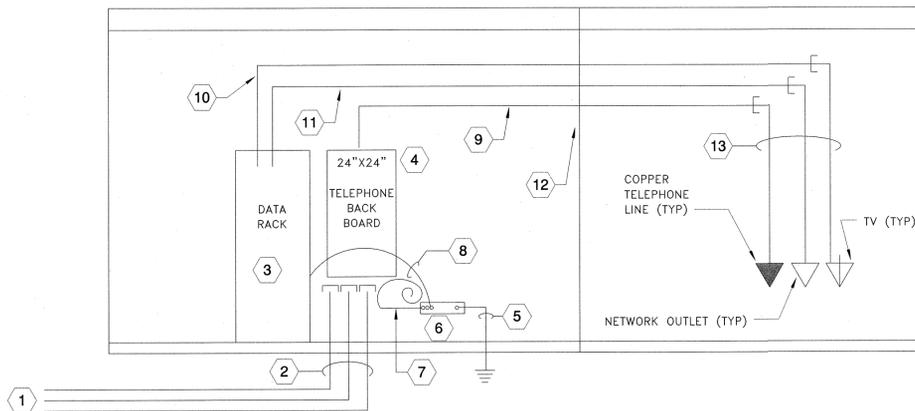
SCHEDULE PROGRAMMING

- SCHEDULE 1 & 2 - SHALL INCLUDE LOCAL AREA OVERRIDE OCCUPANCY SENSORS THAT ARE DISABLED UNTIL 15 MINUTES PRIOR TO THE SCHEDULED EVENT "OFF" TIME AND REMAIN ACTIVATED UNTIL THE SUBSEQUENT EVENT SCHEDULED "ON" TIME. THESE EVENTS SHALL BE PROGRAMMED WITH A BLINK ALERT AS FOLLOWS:
- PRIOR TO A SCHEDULED "OFF" TIME, LIGHTING LOADS SHALL BE MOMENTARILY TURNED "OFF" AND THEN BACK "ON" TO ALERT ANY OCCUPANTS TO ACTIVATE THE LOCAL AREA OVERRIDE OCCUPANCY SENSOR. THE OVERRIDE ACTIVATION WILL CAUSE THE CONTROLLED RELAYS TO REMAIN "ON" FOR 2 HOURS BEFORE THE BLINK ALERT IS ISSUED AGAIN. THIS PROCESS MAY BE INITIATED DURING ANY "OFF" TIME.
- SCHEDULE 3 - OCCUPANCY SENSORS IN OFFICES SHALL OVERRIDE THE SCHEDULED "OFF" TIME IN ALL COMMON AREAS.
- SCHEDULE 4 - PHOTOELECTRIC CELL SYSTEM ON/OFF @ 5FC, TIMECLOCK OFF FOR OWNER DIRECTED DURATION. DO NOT BLINK ALERT WITH EVENT 1&2.

* 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.

3 LIGHTING RELAY PANEL RISER DIAGRAM
SCALE: N.T.S.



4 DATA RISER DIAGRAM
SCALE: N.T.S.

DATA RISER KEYED NOTES:

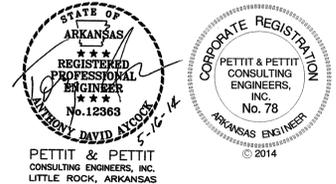
- 1 STUB OUT TO QUAZITE HANDHOLE. REFER TO SITE ELECTRICAL PLANS FOR GENERAL LOCATION. VERIFY EXACT LOCATION WITH OWNER.
- 2 3EA. 4" CONDUITS, STUB UP TO 12" A.F.F. BELOW THE TELEPHONE BACK BOARD.
- 3 DATA RACKS. REFER TO DIVISION 27 SPECIFICATIONS.
- 4 24"x24" 3/4" PLYWOOD TELEPHONE BACKBOARD PAINTED TO MATCH ROOM.
- 5 #10 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
- 8 #6 AWG GROUNDING JUMPER. BOND TO GROUNDING LUG AT EQUIPMENT.
- 9 TELEPHONE CABLE
- 10 RG6 COAX CABLE TO EACH TV LOCATION. PROVIDE ENOUGH SLACK CONDUCTOR IN ELECTRICAL ROOM FOR CONNECTION TO FUTURE CABLE BOX.
- 11 CAT6 NETWORK CABLE TO EACH TV AND NETWORK DROP LOCATION. REFER TO SYSTEMS PLAN FOR NUMBER OF CABLE DROPS AT EACH NETWORK LOCATION.
- 12 PROVIDE FIREPROOFING AT ALL FIRE RATED WALL PENETRATIONS. FIREPROOFING SHALL BE A U.L. LISTED ASSEMBLY MEETING OR EXCEEDING FIRE RATING OF WALL.
- 13 STUB DOWN TO OUTLETS IN 1" CONDUIT.



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Revision	Tag	Description	Issued By	Rev. Date



Commission Number
12012 - 1C
E301
Date: May 16, 2014

Panelboard:		MDP		VOLTAGE: 480/277 Wye		COPPER BUS RATING: 250 A		MAINS TYPE: MCB		
LOCATION: EXTERIOR WALL		PHASE: 3		GROUND BUS: Yes		MCB RATING: 200				
MOUNTING: SURFACE		WIRES: 4		MINIMUM A.I.C. RATING: 10K		FED FROM:				
ENCLOSURE: NEMA 3R		MFR. AND TYPE: SQUARE D NF		SUBFEED LUGS:		NEUTRAL RATING: 100.00%				
Circuit Number	Load Name	WIRE	BRKR	A	B	C	BRKR	WIRE	Load Name	Circuit Number
1	TRANSFORMER 'T'	4	70A/3P	14894 VA	3614 VA					
3	--	-	-		15527 VA	280 VA			20A/1P 12	LGTS - INTERIOR 2
5	--	-	-			13668 VA	3000 VA	20A/3P 12		WH-1 6
7	WH-1	12	20A/3P	3000 VA	3000 VA					
9	--	-	-		3000 VA	3000 VA				
11	--	-	-			3000 VA	1607 VA	20A/1P 12		LGTS - INTERIOR 12
13	AC-1	6	60A/3P	14958 VA	0 VA					Space 14
15	--	-	-		14958 VA	0 VA				Space 16
17	--	-	-			14958 VA	0 VA			Space 18
19	EXISTING PANEL 'HPS'	3	70A/3P	1850 VA	0 VA					Space 20
21	--	-	-		3885 VA	0 VA				Space 22
23	--	-	-			3145 VA	0 VA			Space 24
25	SPD	10	30A/3P	0 VA	0 VA					Space 26
27	--	-	-		0 VA	0 VA			20A/2P -	LGTS - FUTURE 28
29	--	-	-		0 VA	0 VA				LGTS - FUTURE 30
Total Load:				41315 VA	40650 VA	39378 VA				
Total Amps:				150 A	147 A	142 A				
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals						
Lighting	4803 VA	125.00%	6004 VA	Total Connected Load:	121075 VA					
Receptacles	10920 VA	95.79%	10460 VA	Total Estimated Demand:	127019 VA					
HVAC	67986 VA	100.00%	10460 VA	Total Connected Current:	146 A					
Power	7574 VA	100.00%	7574 VA	Total Est. Demand Current:	153 A					
Other	10252 VA	125.00%	12815 VA							
Motor	10560 VA	125.00%	13200 VA							

Panelboard:		P		VOLTAGE: 120/208 Wye		COPPER BUS RATING: 225 A		MAINS TYPE: MCB		
LOCATION: MECHANICAL ROOM		PHASE: 3		GROUND BUS: Yes		MCB RATING: 225A				
MOUNTING: SURFACE		WIRES: 4		MINIMUM A.I.C. RATING: 10K		FED FROM: T				
ENCLOSURE: Type 1		MFR. AND TYPE: SQUARE D NQ		SUBFEED LUGS:		NEUTRAL RATING: 100.00%				
Circuit Number	Load Name	WIRE	BRKR	A	B	C	BRKR	WIRE	Load Name	Circuit Number
1	RCPT - OFFICE	12	20A/1P	1220 VA	1220 VA				20A/1P 12	RCPT - OFFICE 2
3	RCPT - OFFICE	12	20A/1P		1220 VA	1220 VA			20A/1P 12	RCPT - CORRIDOR 4
5	RCPT - LOCKER ROOM	12	20A/1P			720 VA	900 VA	20A/1P 12		RCPT - LOCKER ROOM 6
7	RCPT - RESTROOMS	12	20A/1P	540 VA	540 VA				20A/1P 12	RCPT - EXTERIOR 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 VA	20A/1P 12		REFRIGERATOR 12
13	WATER COOLER	12	20A/1P	454 VA	720 VA				20A/1P 12	RCPT - MISC 14
15	RCPT - IT	12	20A/1P		720 VA	1000 VA			20A/1P 12	ICE MAKER 16
17	WASHER	12	20A/1P			500 VA	500 VA	30A/2P 10		DRYER 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 PANEL 'LCP' 22
23	FLUSH VALVES	12	20A/1P			1000 VA	2496 VA	30A/2P 10		HP-1 24
25	HWC-1	12	20A/1P	120 VA	2496 VA					-- 26
27	ACCESS CONTROL	12	20A/1P		900 VA	100 VA			20A/1P 10	EMERGENCY PHONE 28
29	MSCU-1 & MS-1	12	15A/2P			832 VA	500 VA	20A/1P 12		BAS PANEL 30
31	--	-	-	832 VA	5280 VA				45A/2P 6	AHU-1 32
33	AHU-1	10	30A/2P		3120 VA	5280 VA				-- 34
35	--	-	-			3120 VA	1100 VA	20A/1P 12		FD/SD 36
37	RCPT	12	20A/1P	540 VA	0 VA				20A/1P	Spare 38
39	Spare		20A/1P		0 VA	0 VA			20A/1P	Spare 40
41	Spare		20A/1P			0 VA	0 VA		20A/1P	Spare 42
Total Load:				14962 VA	15697 VA	13668 VA				
Total Amps:				126 A	132 A	114 A				
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals						
Lighting	0 VA	0.00%	0 VA	Total Connected Load:	43802 VA					
Receptacles	10920 VA	95.79%	10460 VA	Total Estimated Demand:	48366 VA					
HVAC	5112 VA	100.00%	10460 VA	Total Connected Current:	122 A					
Power	7574 VA	100.00%	7574 VA	Total Est. Demand Current:	134 A					
Other	9536 VA	125.00%	11920 VA							
Motor	10560 VA	125.00%	13200 VA							

LIGHT FIXTURE SCHEDULE					
TYPE MARK	MANUFACTURER	MODEL	DESCRIPTION	LAMP	ELECTRICAL DATA
A	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
B3	GOTHAM	EVO-LW-35-14-GWR-LD	6" LED WALL WASH	LED	277 V/1-28 VA
C	LITHONIA	C-232-MVOLT	2 LAMP FLUORESCENT STRIP	2EA T8	277 V/1-64 VA
D	LITHONIA	DWXX1LED-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	TZL1N L96 6000LM FST MVOLT 35K	96" LINEAR LED FIXTURE	LED	277 V/1-62 VA
H	LITHONIA	LT SERIES	LT SERIES LIGHTING TRACK	LED	277 V/1-600 VA
I	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

ELECTRICAL EQUIPMENT SCHEDULE						
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 CIRCULATOR	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	

Tag	Rev. Description	Rev. Date	Issued By



Commission Number
12012 - IC
E401
Date: May 16, 2014

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