

DATE REVISED	DATE FILMED	DATE REVISED	DATE FILMED	FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS	
				6	AR	STPE-ENHN (478)			
							JOB NO. 030449	1	114
ARKANSAS WELCOME CENTER RECONST. (RED RIVER) (S)									

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CONSTRUCTION PLANS

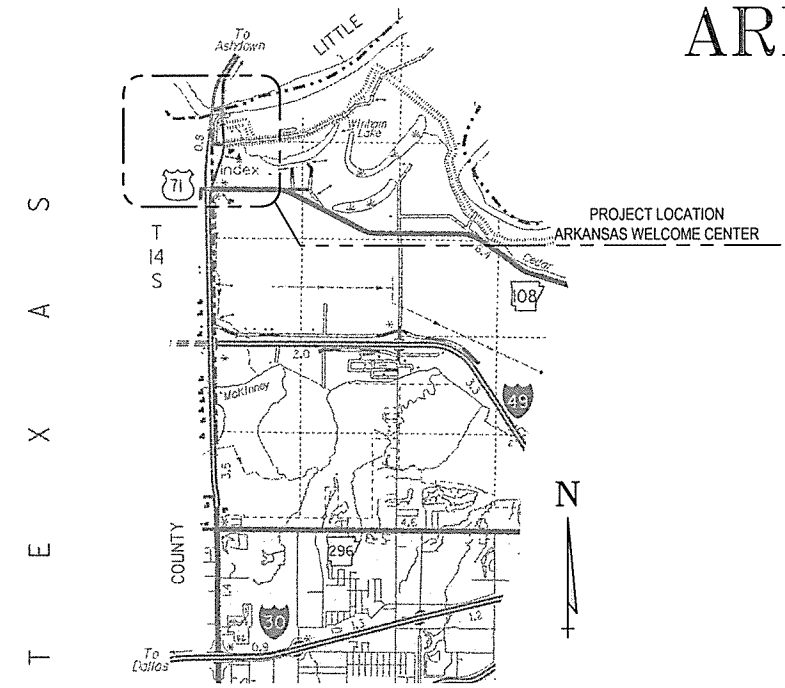
ARKANSAS WELCOME CENTER RECONST. (RED RIVER) (S)

MILLER COUNTY

ROUTE 71 SECTION 3

F.A.P. STPE-ENHN (478)

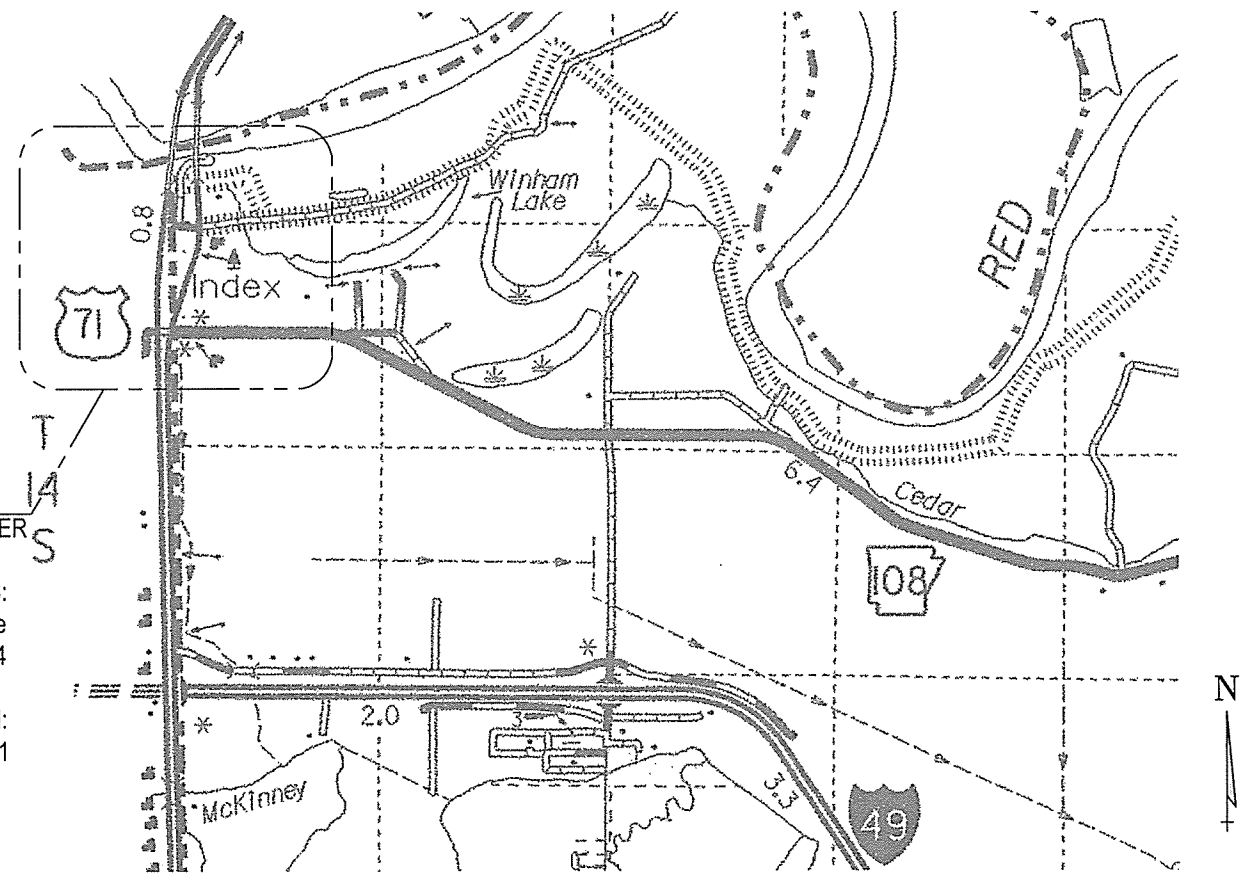
JOB: 030449



VICINITY MAP
NOT TO SCALE



ARKANSAS HIGHWAY DISTRICT 3
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

CONTACT LIST

Owner
ARKANSAS HIGHWAY AND TRANSPORTATION DEPARTMENT
Post Office Box 2261
Little Rock, Arkansas 72203

Project Manager: Ray Gruver, Section Head
Maintenance Division, Facilities Management Sect.
Phone: 501-569-2011

Civil, Architecture & MEP
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Fayetteville, Arkansas 72703

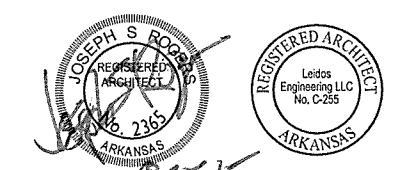
Project Manager / Architect: Joseph S. Rogers
Phone: 479-442-3060

Structural Consultant
ENGINEERING CONSULTANTS, INC.
113 Parkwood St., Suite C
Lowell, AR 72745

Structural Engineer: Don Whitmire
Phone: 479-770-5366

PROJECT LOCATION
ARKANSAS WELCOME CENTER
RECONST.
911 ADDRESS:
12555 N. State Line Avenue
Texarkana, Arkansas 71854

PHYSICAL LOCATION:
US Highway 71



"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."

Joseph S. Rogers
JOSEPH S. ROGERS, ARCHITECT

File name: W:\P\BAR Highway Design\13841 - ARHTD Welcome Center\20_DESIGN\40_CADD\ARC_Red River\GRR001.dwg
Date: September 23, 2015 - 4:24pm
User: brysona

PROJECT MID-POINT: 33° 32' 45" N LATITUDE, -94° 02' 32" W LONGITUDE

P.E. JOB 030449
NON-PART.

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ARKANSAS WELCOME CENTER - RED RIVER, ARKANSAS CODE INFORMATION: ARKANSAS FIRE PREVENTION CODE, 2012 EDITION

OCCUPANCY:	GROUP S-1, MODERATE HAZARD STORAGE	AFPC SECTION 311.2
CONSTRUCTION:	TYPE VB, UNSPRINKLERED, UNPROTECTED	AFPC SECTION 602.5, TABLE 601, TABLE 602
STRUCTURAL FRAME	0 HOUR	
BEARING WALLS	0 HOUR	
NONBEARING WALLS AND PARTITIONS	0 HOUR	
FLOOR CONSTRUCTION	0 HOUR	
ROOF CONSTRUCTION	0 HOUR	
FIRE SEPARATION WALLS	NOT APPLICABLE (NONSEPARATED USES)	
FIRE PARTITIONS		
STORAGE/MECHANICAL AREAS	0 HOUR	AFPC TABLE 508.2
EXIT ACCESS CORRIDORS	0 HOUR	AFPC TABLE 1017.1
SHAFT ENCLOSURES	NOT APPLICABLE	
AREA OF EXTERIOR OPENINGS	UNLIMITED	AFPC TABLE 704.8
BUILDING LIMITATIONS FOR B OCCUPANCY		
HEIGHT AND STORIES	40 FT/1 STORY	AFPC TABLE 503
ACTUAL HEIGHT AND STORIES	31 FT/1 STORY	
BASE AREA	9,000 SF/FLOOR	AFPC TABLE 503
ACTUAL AREA (1 STORY)	3,256 SF	
MEANS OF EGRESS		
OCCUPANT LOAD, GROUP S-1	1 OCCUPANTS	AFPC TABLE 1004.1.1
OCCUPANT LOAD, GROUP B	32 OCCUPANTS	AFPC TABLE 1004.1.1
TOTAL OCCUPANT LOAD	33 OCCUPANTS	
WIDTH OF EGRESS DOORS		
EXITS	32" REQUIRED; 36" PROVIDED	AFPC SECTION 1008.1.1
MINIMUM NUMBER OF EXITS	2 REQUIRED; 5 PROVIDED	AFPC TABLE 1015.1
EXIT ACCESS TRAVEL DISTANCE	200 FT	AFPC TABLE 1016.1
EXIT ACCESS CORRIDOR WIDTH	44" REQUIRED 60" PROVIDED	AFPC SECTION 1017.2
DEAD END CORRIDOR	20 FT	AFPC SECTION 1017.3
	NONE ACTUAL	

SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS LISTING

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS FOR THIS PROJECT SUPPLEMENT THE STANDARD SPECIFICATIONS, EDITION OF 2014. IN CASE OF CONFLICT, THE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL GOVERN.

ERRATA _____ ERRATA FOR THE BOOK OF STANDARD SPECIFICATIONS
 FHWA-1273 _____ REQUIRED CONTRACT PROVISIONS FEDERAL-AID CONSTRUCTION CONTRACTS
 FHWA-1273 _____ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - NOTICE TO CONTRACTORS
 FHWA-1273 _____ SUPPLEMENT - SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES (23 U.S.C. 140)
 FHWA-1273 _____ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - GOALS AND TIMETABLES
 FHWA-1273 _____ SUPPLEMENT - EQUAL EMPLOYMENT OPPORTUNITY - FEDERAL STANDARDS
 FHWA-1273 _____ SUPPLEMENT - POSTERS AND NOTICES REQUIRED FOR FEDERAL-AID PROJECTS
 FHWA-1273 _____ SUPPLEMENT - WAGE RATE DETERMINATION
 FHWA-1273 _____ SUPPLEMENT - WAGE RATE DETERMINATION - BUILDING

JOB 030449 _____ BIDDING REQUIREMENTS AND CONDITIONS
 JOB 030449 _____ BROADBAND INTERNET SERVICE FOR ASPHALT CONCRETE PLANT
 JOB 030449 _____ BUILDERS RISK INSURANCE
 JOB 030449 _____ COMPETENCY OF BIDDERS
 JOB 030449 _____ DOCUMENTATION OF PAYMENTS MADE TO DISADVANTAGED BUSINESS ENTERPRISES
 JOB 030449 _____ MANDATORY ELECTRONIC CONTRACT
 JOB 030449 _____ MEASUREMENT AND PAYMENT
 JOB 030449 _____ PARTNERING REQUIREMENTS
 JOB 030449 _____ PROJECT MANUAL
 JOB 030449 _____ STANDARD SPECIFICATIONS APPLICABILITY
 JOB 030449 _____ STORM WATER POLLUTION PREVENTION PLAN
 JOB 030449 _____ SUBMISSION OF ASPHALT CONCRETE HOT MIX ACCEPTANCE TEST RESULTS
 JOB 030449 _____ UTILITY ADJUSTMENTS
 JOB 030449 _____ VALUE ENGINEERING
 JOB 030449 _____ WARM MIX ASPHALT

108-1 _____ LIQUIDATED DAMAGES
 400-1 _____ TACK COATS
 410-1 _____ CONSTRUCTION REQUIREMENTS AND ACCEPTANCE OF ASPHALT CONCRETE PLANT MIX COURSES
 604-1 _____ RETROREFLECTIVE SHEETING FOR TRAFFIC CONTROL DEVICES IN CONSTRUCTION ZONES

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NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SHEET INDEX & CODE ANALYSIS

REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-235

REGISTERED ARCHITECT
 JOSEPH S. ROBERTS
 No. 2363
 ARKANSAS

9-25-15

DESIGNED BY JSR
 DRAWN BY AMB
 CHECKED BY JSR
 APPROVED BY JSR

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER
313841
 SHEET G-002 REV
 2 OF 114

File name: \\LEIDOS\BMR_Highway Dept\313841 - ARHTD Welcome Center\20_DESIGN\40_CADD\WELCOME_CENTER\CDR\CD01.dwg
 Date: October 21, 2015 - 8:52am
 User: rajr

SITE SYMBOL LEGEND

UTILITY OR FEATURE	EXISTING	PROPOSED
LIGHT POLE		
UTILITY POLE		
WATER VALVE		
WATER METER		
HYDRANT		
CLEANOUT		
DOWNSPOUT		
DRAIN LINE INLET/OUTLET		
TREE		
TREE LINE		
SHRUBS		
SIGN		
SMOKE URN		
FLAG POLE		
SIGNAGE AND FLAG POLE LIGHT		
DRINKING FOUNTAIN		
BOLLARD		
LIGHTED BOLLARD		
PEDESTRIAN LIGHT		
WHEEL STOP		
SILT FENCE		
POTABLE WATER		
FIRE WATER		
SANITARY SEWER		
STORM CULVERT		
ROOF DRAIN		
GAS		
O/H ELECTRIC SERVICE		
U/G ELECTRIC SERVICE		
U/G FIBER OPTIC CABLE		
FENCE		
MAJOR CONTOUR LABEL		
MINOR CONTOUR LABEL		
EASEMENT		
PROPERTY LINE		
RIGHT-OF-WAY		
CONTROL POINT		

SUMMARY OF QUANTITIES
Red River, Arkansas

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNITS
201	CLEARING	0.49	ACRE
201	GRUBBING	0.49	ACRE
202	REMOVAL AND DISPOSAL OF CURB	848	LF
202	REMOVAL AND DISPOSAL OF SIDEWALKS	485	SQYD
202	REMOVAL AND DISPOSAL OF SIGN POLE	4	EACH
202	REMOVAL AND DISPOSAL OF BUILDINGS	2	EACH
202	REMOVAL AND DISPOSAL OF SIGNS	4	EACH
202	REMOVAL AND DISPOSAL OF FLAG POLE	1	EACH
210	UNCLASSIFIED EXCAVATION	540	CUYD
210	COMPACTED EMBANKMENT	1485	CUYD
303	AGGREGATE BASE COURSE (CLASS 7)	309	TON
SS & 401	TACK COAT	209	GAL
SP & 405	MINERAL AGGREGATE IN ACHM BASE COURSE (1 1/2")	373	TON
SP & 405	ASPHALT BINDER (PG 64-22) IN ACHM BASE COURSE (1 1/2")	22	TON
SP, SS & 407	MINERAL AGGREGATE IN ACHM SURFACE COURSE (3/8")	470	TON
SP, SS & 407	ASPHALT BINDER (PG 70-22) IN ACHM SURFACE COURSE (3/8")	28	TON
601	MOBILIZATION	1.00	L.S.
SS & 604	SIGNS	6	SQFT
606	12" REINFORCED CONCRETE PIPE CULVERTS (CLASS III)	34	LF
620	WATER	30.0	MGAL
621	SILT FENCE	1200	LF
621	SAND BAG DITCH CHECKS	80	BAG
624	SOLID SODDING	1444	SQYD
632	CONCRETE ISLAND	264	SQYD
633	CONCRETE WALKS	215	SQYD
SP & 633	COLORED CONCRETE WALKS	288	SQYD
634	CONCRETE CURB (TYPE D)	856	LF
634	CONCRETE COMBINATION CURB AND GUTTER (TYPE A) (1' 6")	138	LF
718	REFLECTORIZED PAINT PAVEMENT MARKING WHITE (4")	710	LF
718	REFLECTORIZED PAINT PAVEMENT MARKING YELLOW (4")	600	LF
SP & 718	REFLECTORIZED PAINT PAVEMENT MARKING SYMBOLS (WHEELCHAIR)	4	EACH
SP	MODULAR BLOCK RETAINING WALL	36	SQFT
804	REINFORCING STEEL-ROADWAY (GRADE 60)	180	LB
SP	SITE UTILITIES	1.00	L.S.
SP	SITE FURNISHINGS	1.00	L.S.
SP	MAINTENANCE BUILDING	1.00	L.S.
SP	WELCOME CENTER FACILITY	1.00	L.S.
SP	FLAGPOLE WITH FOUNDATION	2	EACH
SP	LANDSCAPING	1.00	L.S.
SP	EXTERIOR AREA LIGHTING	1.00	L.S.
SP	DUMPSTER SCREEN AND PAD	1.00	L.S.
SP	PICNIC SHELTERS (NEW LOCATIONS)	1	EACH

REVISION

Red River, Arkansas

DATE	DESCRIPTION	SHEET NUMBER

UTILITY NOTE

EXISTING WATER AND SEWER LINE SIZES ARE NOT KNOWN. FIELD VERIFY LINE SIZES PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.



FOR INFORMATION ONLY

LANDSCAPING
Red River, Arkansas

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
1	LANDSCAPING MAINTENANCE AND WARRANTY	1.00	LS
2	IRRIGATION	1.00	LS

SITE UTILITIES
Red River, Arkansas

ITEM	ITEM DESCRIPTION	QUANTITY	UNIT
WATERLINE			
SP	2" PVC PIPE (C-900)	95	LF
SP	2" 90 DEGREE BEND	1	EA
SP	2" GATE VALVE	1	EA
SP	1 1/2" PVC PIPE (C-900)	50	LF
SP	1 1/2" 90 DEGREE BEND	1	EA
SP	1 1/2" GATE VALVE	2	EA
SP	3/4" PVC PIPE	105	LF
SP	2" TAPPING SLEEVE AND VALVE	1	EA
SP	3/4" SOLID SLEEVE	3	EA
SP	3/4" 90 DEGREE BEND	6	EA
SP	3/4" 45 DEGREE BEND	1	EA
SP	3/4" 22 1/2 DEGREE BEND	2	EA
SP	1/2" X 3/4" X 1 1/2" TEE	1	EA
SP	1/2" X 3/4" X 3/4" TEE	1	EA
SP	3/4" X 3/4" X 3/4" TEE	2	EA
SP	3/4" GATE VALVE	3	EA
SANITARY SEWER			
SP	4" PVC PIPE (SDR-26)	90	LF
SP	4" WYE FITTING	2	EA
SP	4" CLEAN OUT	3	EA
SP	CONNECT TO EXISTING SANITARY SEWER LIFT STATION	2.00	LS

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 www.leidos.com

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015			

ARIZONA STATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 610
 ARIZONA

STATE OF ARIZONA
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 ARIZONA

ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
 RED RIVER

CIVIL LEGEND AND SYMBOLS

DESIGNED BY JEG
 DRAWN BY PMM
 CHECKED BY RRT
 APPROVED BY RRT

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER
313841
 SHEET **C-001** | REV
 3 of 114

GENERAL SITE NOTES:

- CAUTION: UNDERGROUND UTILITIES LIE WITHIN AND ADJACENT TO THE LIMITS OF CONSTRUCTION. AN ATTEMPT HAS BEEN MADE TO LOCATE THESE UTILITIES ON THE PLANS, HOWEVER ALL EXISTING UTILITIES MAY NOT BE SHOWN AND THE ACTUAL LOCATIONS OF THE UTILITIES MAY VARY FROM LOCATIONS SHOWN. PRIOR TO BEGINNING ANY TYPE OF EXCAVATION, THE CONTRACTOR SHALL MARK THE VISIBLE UTILITIES & THE UTILITIES SHOWN ON THE PLANS IN THE FIELD. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKING UNTIL THEY ARE NO LONGER NECESSARY. USE EXTREME CAUTION WHEN EXCAVATING.
- DIMENSIONS ARE GIVEN TO BACK OF CURB, CENTER OF STRIPE, FACE OF BUILDING, EDGE OF PAVEMENT, OR PROPERTY LINE.
- COORDINATES GIVEN FOR RADII ARE FROM THE CENTER OF THE RADIUS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE APPROPRIATE BARRICADES AND SAFETY PRECAUTIONS IN ALL EXCAVATED AREAS. EXCAVATED AREAS SHALL BE ADEQUATELY FILLED OR COVERED BY THE CONTRACTOR BEFORE LEAVING THE JOB SITE EACH DAY.
- CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING STRUCTURES, PAVEMENTS, AND UTILITIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO THE SITE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN AN ORDERLY AND CLEAN FASHION.
- ALL WASTE MATERIALS GENERATED FROM CONSTRUCTION BECOME THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE THE WASTE MATERIALS FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER.
- PROVIDE ADA ACCESS FOR ALL SIDEWALK CROSSINGS AT TURNOUTS. SIDEWALK CROSSINGS MUST MEET CURRENT ADA STANDARDS.
- SEE ARCHITECTURAL PLANS FOR BUILDING ACCESS, GAS METER, AND A/C CONDENSER DETAILS.
- ALL REINFORCING STEEL SHALL BE GRADE A-60.

GENERAL UTILITY NOTES:

- PRIOR TO BEGINNING ANY TYPE OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES TO BE MARKED ON THE SITE. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. UNDER ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM TELEPHONE NUMBER IS 1-800-482-8998 OR 811. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION AND SIZE FOR ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE, AND COMMUNICATIONS. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH BASE UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH PERFORMANCE CRITERIA FOR OSHA.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET, THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN (18) INCHES. WATER LINES SHALL BE INSTALLED OVER SEWER LINES
- CONTRACTOR SHALL, ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- CONTRACTOR SHALL COORDINATE UTILITY INSTALLATIONS WITH LOCAL GOVERNING AUTHORITIES. PAYMENT OF FEES REGARDING THE INSTALLATION OF UTILITIES (I.E. TAPPING FEES, PERMIT FEES, INSTALLATION FEES, METER FEES, ETC.) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

WATER NOTES:

- DIG THROUGH LOCATOR TAPE SHALL BE BURIED 2 FEET ABOVE LINE.
- PIPE SIZES 4" AND LARGER SHALL BE PVC C-900 WATER PIPE. ALL FITTINGS 4" AND LARGER SHALL BE PVC CONFORMING TO ANSI AND AWWA STANDARD SPECIFICATIONS.
- PIPE SIZES 3" AND SMALLER SHALL BE PVC. FITTINGS SHALL BE BRASS. SEE SPECIFICATIONS.
- WHEN C-900 PVC IS USED, A NO. 8 BARE COPPER WIRE SHALL BE TAPED TO THE TOP SURFACE OF THE PIPE AND CONNECTED TO EACH HYDRANT BY ATTACHING TO A BOLT, JUST ABOVE GROUND LEVEL.
- ALL IRON PIPE AND FITTINGS SHALL BE POLYWRAPPED.
- ALL MAIN LINES SHALL HAVE A MINIMUM OF THIRTY (30) INCHES AND A MAXIMUM OF EIGHT (8) FEET OF COVER.
- BEDDING, BACKFILL, AND COMPACTION OVER WATER LINES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- ROAD CLOSURES MUST BE COORDINATED A MINIMUM OF TWENTY FOUR (24) HOURS IN ADVANCE. ROADS WILL NOT BE CLOSED FOR OVER EIGHT (8) HOURS WITHOUT WRITTEN PERMISSION FROM THE DISTRICT ENGINEER.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL WATER LINE HORIZONTAL BENDS, TEES, AND FIRE HYDRANTS. SEE DETAILS.
- REFERENCE ARCHITECTURAL PLANS FOR ALL BUILDING FIRE SERVICE AND DOMESTIC SERVICE CONNECTION LOCATIONS.
- CONTRACTOR SHALL CONSTRUCT WATER SERVICES AS SHOWN, AND CONSTRUCT METERS, PITS, AND INSTALL CHECK VALVE. SERVICE LINES GREATER THAN 3/4" SHALL REQUIRE BACKFLOW PREVENTER.
- ALL VERTICAL BENDS ON WATER MAIN SHALL BE RESTRAINED WITH A MECHANICAL JOINT FITTING SUPPLIED WITH THE RETAINER GLANDS. ANY JOINTS 25 FEET OR LESS FROM EITHER SIDE OF VERTICAL BEND SHALL BE RESTRAINED WITH A RETAINER GLAND.
- CONTRACTOR SHALL COORDINATE WITH TEXARKANA WATER AND SANITARY SEWER UTILITIES FOR SERVICE TO THE SITE.

SANITARY SEWER NOTES:

- DIG THROUGH LOCATOR TAPE SHALL BE BURIED 2 FEET ABOVE LINE.
- REFERENCE ARCHITECTURAL PLANS FOR ALL BUILDING SERVICE CONNECTION LOCATIONS.
- ALL STUB-OUTS AND WYE LATERALS SHALL BE PLUGGED WITH A STANDARD TYPE PLUG. TIE SKI ROPE TO A STAKE FOR TIE-IN REFERENCE.
- COORDINATES OR DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR TO CENTER OF MANHOLE.
- THE TOP ELEVATION OF ALL MANHOLES IN GRASSED AREAS SHALL BE 6" ABOVE FINISHED GRADE. THE TOP ELEVATION OF ALL MANHOLES IN PAVED AREAS WILL BE SET FLUSH WITH THE PROPOSED PAVEMENT.
- THE SANITARY SEWER PIPE MATERIAL SHALL BE PVC, SDR-26, SEWER PIPE UNLESS NOTED ON PLAN.
- CONTRACTOR SHALL COORDINATE WITH TEXARKANA WATER AND SANITARY SEWER UTILITIES FOR SERVICE TO THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL APPLICABLE FEES FOR SANITARY SEWER INSTALLATION INCLUDING, BUT NOT LIMITED TO, TAPPING FEES, ETC.
- TRACER WIRE SHALL BE INSTALLED WITH ALL UNDERGROUND PIPES.

TELEPHONE AND COMMUNICATIONS NOTES:

- REFERENCE ARCHITECTURAL DOCUMENTS FOR ALL BUILDING SERVICE CONNECTIONS.
- ALL WORK SHALL BE COMPLETED TO WINDSTREAM COMMUNICATIONS SPECIFICATIONS AND STANDARDS. CONTACT WINDSTREAM COMMUNICATIONS TO DETERMINE COORDINATION & INSTALLATION REQUIREMENTS.

POWER NOTES:

- REFERENCE ARCHITECTURAL DOCUMENTS FOR ALL BUILDING SERVICE CONNECTIONS.
- ALL WORK SHALL BE COMPLETED TO SOUTHWEST ARKANSAS ELECTRIC CO-OP CORP. SPECIFICATIONS AND STANDARDS. CONTACT SOUTHWEST ARKANSAS ELECTRIC CO-OP CORP. (MIKE POLLARD AT 870-772-2743 EXT. 248) TO DETERMINE COORDINATION & INSTALLATION REQUIREMENTS.

GENERAL GRADING/DRAINAGE NOTES:

- PAVEMENT MARKINGS SHALL COMPLY WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U. S. DEPARTMENT OF TRANSPORTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATE EROSION CONTROL MEASURES. THESE MEASURES WILL SATISFY SECTION 110 OF THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND THE REQUIREMENTS OF THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY. EROSION CONTROL DEVICES WILL BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. PERIMETER CONTROLS SHALL BE PLACED AS THE CLEARING AND GRUBBING OPERATIONS ARE STARTED.
- SEED, FERTILIZE AND MULCH AREAS DISTURBED BY CONSTRUCTION (EXCEPT AREAS TO BE PAVED). COMPLY WITH THE STANDARDS SET FORTH IN THE STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL EMPLOY A QUALIFIED MATERIALS TESTING LABORATORY, ACCEPTABLE TO THE ENGINEER, TO PROVIDE TESTING SERVICES DURING CONSTRUCTION. TEST RESULTS SHALL BE PROMPTLY SENT TO THE OWNER/ENGINEER.
- CONTRACTOR SHALL MAINTAIN BENCHMARKS ON SITE UNTIL THE END OF CONSTRUCTION.
- ALL CONCRETE PIPE SHALL BE CLASS III REINFORCED CONCRETE PIPE WITH TYPE 3 BEDDING UNLESS OTHERWISE NOTED.

GENERAL NOTES FOR AHTD JOB NO. 030449:

- LEVEL DATUM IS U.S.C. & G.S.
- GRADE LINE DENOTES FINISHED GRADE WHERE SHOWN ON PLANS.
- ALL PIPE LINES, POWER, TELEPHONE AND TELEGRAPH LINES TO BE MOVED OR LOWERED BY THE RESPECTIVE OWNERS AS PER AGREEMENT WITH SUCH OWNERS UNDER JOB 030449.
- ANY EQUIPMENT OR APPURTENANCE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION AND WHICH MAY BE THE PROPERTY OF UTILITY SERVICE ORGANIZATIONS SHALL BE MOVED BY THE OWNERS UNLESS OTHERWISE NOTED.
- ALL LAND MONUMENTS LOCATED WITHIN THE CONSTRUCTION AREA SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 107.12 OF THE STANDARD SPECIFICATIONS.
- ALL TREES THAT DO NOT DIRECTLY INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE SPARED IF AND WHERE DIRECTED BY THE ENGINEER. CARE AND DISCRETION SHALL BE USED TO ENSURE THAT ALL TREES NOT TO BE REMOVED SHALL BE HARMED AS LITTLE AS POSSIBLE DURING THE CONSTRUCTION OPERATIONS.
- THIS PROJECT IS COVERED UNDER A NATIONWIDE 23 SECTION 404 PERMIT. REFER TO SECTION 110 OF THE STANDARD SPECIFICATIONS, EDITION OF 2014 OR LATEST EDITION, FOR PERMIT REQUIREMENTS.
- ALL FLEXIBLE BASE AND ASPHALTIC PAVEMENTS REMOVED SHALL BE PAID FOR UNDER THE ITEM UNCLASSIFIED EXCAVATION.
- THE EXISTING ASPHALT PAVEMENT TO BE REMOVED FROM THE REMAINING PAVEMENT SHALL BE SEPARATED BY SAW CUTTING ALONG A NEAT LINE. AFTER SAWING, THE PAVEMENT TO BE REMOVED SHALL BE CAREFULLY REMOVED IN A MANNER THAT WILL NOT DAMAGE THE PAVEMENT THAT IS TO REMAIN. ANY DAMAGE OF THE ASPHALT PAVEMENT THAT IS TO REMAIN IN PLACE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ASPHALT PAVEMENT REMOVAL IS PAID AS UNCLASSIFIED EXCAVATION.

NOTE:

ALL ITEMS LABELED "PROPOSED" ARE NEW CONSTRUCTION ITEMS TO BE INSTALLED OR BUILT BY THE CONTRACTOR. CONTRACTOR SHALL INCLUDE ALL ITEMS TO BE INSTALLED AND/OR BUILT IN HIS/HER BASE BID.

UTILITY CONTACT LIST

WATER SERVICES & SANITARY SEWER
 TEXARKANA WATER UTILITIES
 J.O. PHILLIPS
 DIRECTOR OF ENGINEERING
 PHONE: 903-798-3800

ELECTRIC SERVICES
 SOUTHWEST ARKANSAS ELECTRIC CO-OP CORP.
 MIKE POLLARD
 CONSTRUCTION MANAGER
 PHONE: 870-772-2743 EXT. 248
 MPOLLARD@SWREA.COM

COMMUNICATIONS
 WINDSTREAM COMMUNICATIONS
 CLIFF PORTERFIELD
 ENGINEERING SUPERVISOR
 903-223-4669



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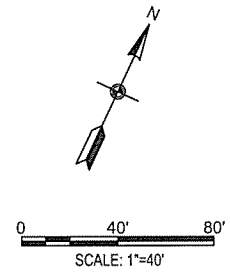
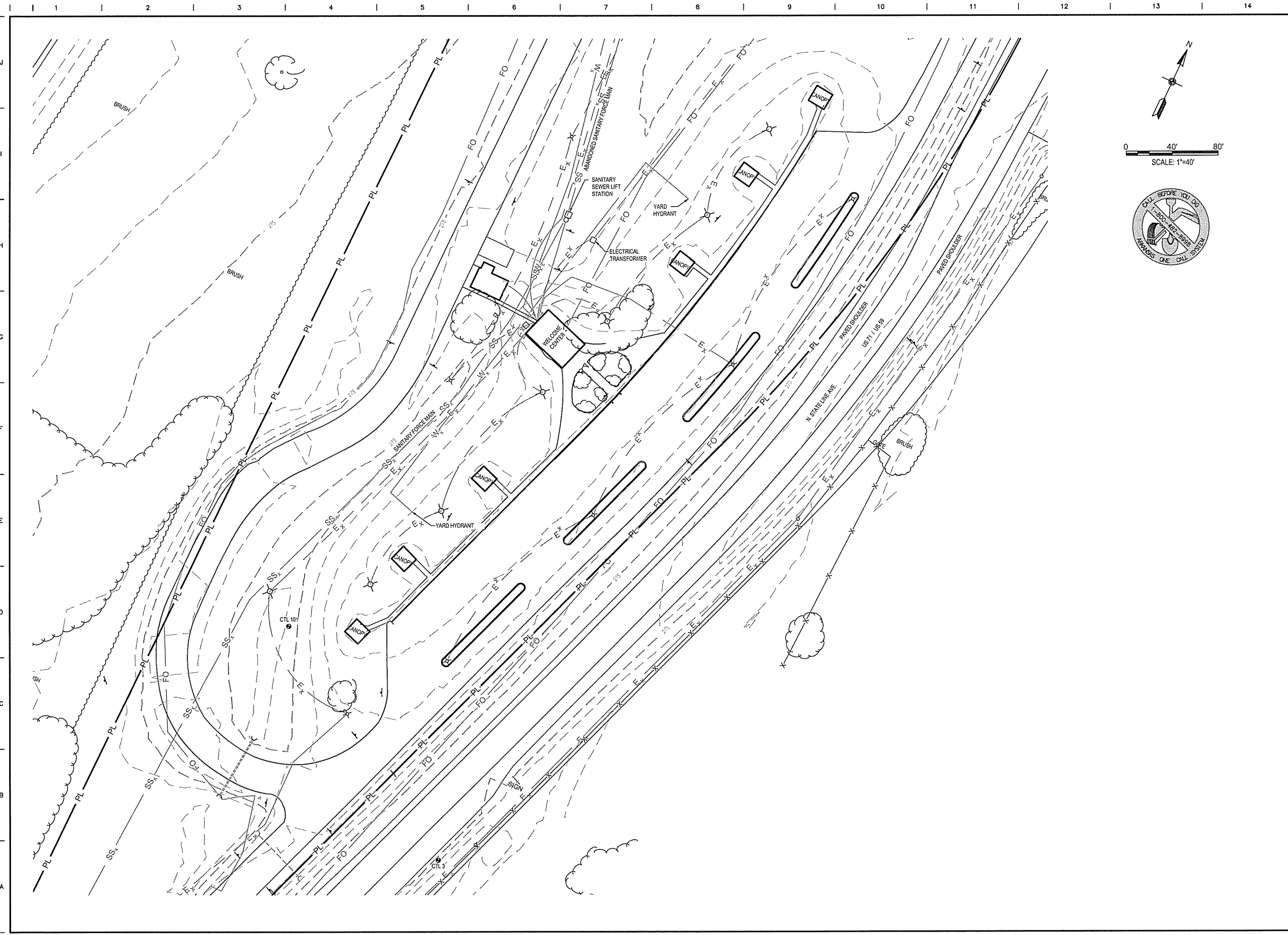
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER
 CIVIL GENERAL NOTES

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-002
REV	4 OF 114

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 User: mullins



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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

EXISTING SITE PLAN

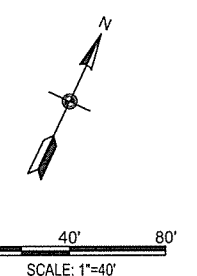
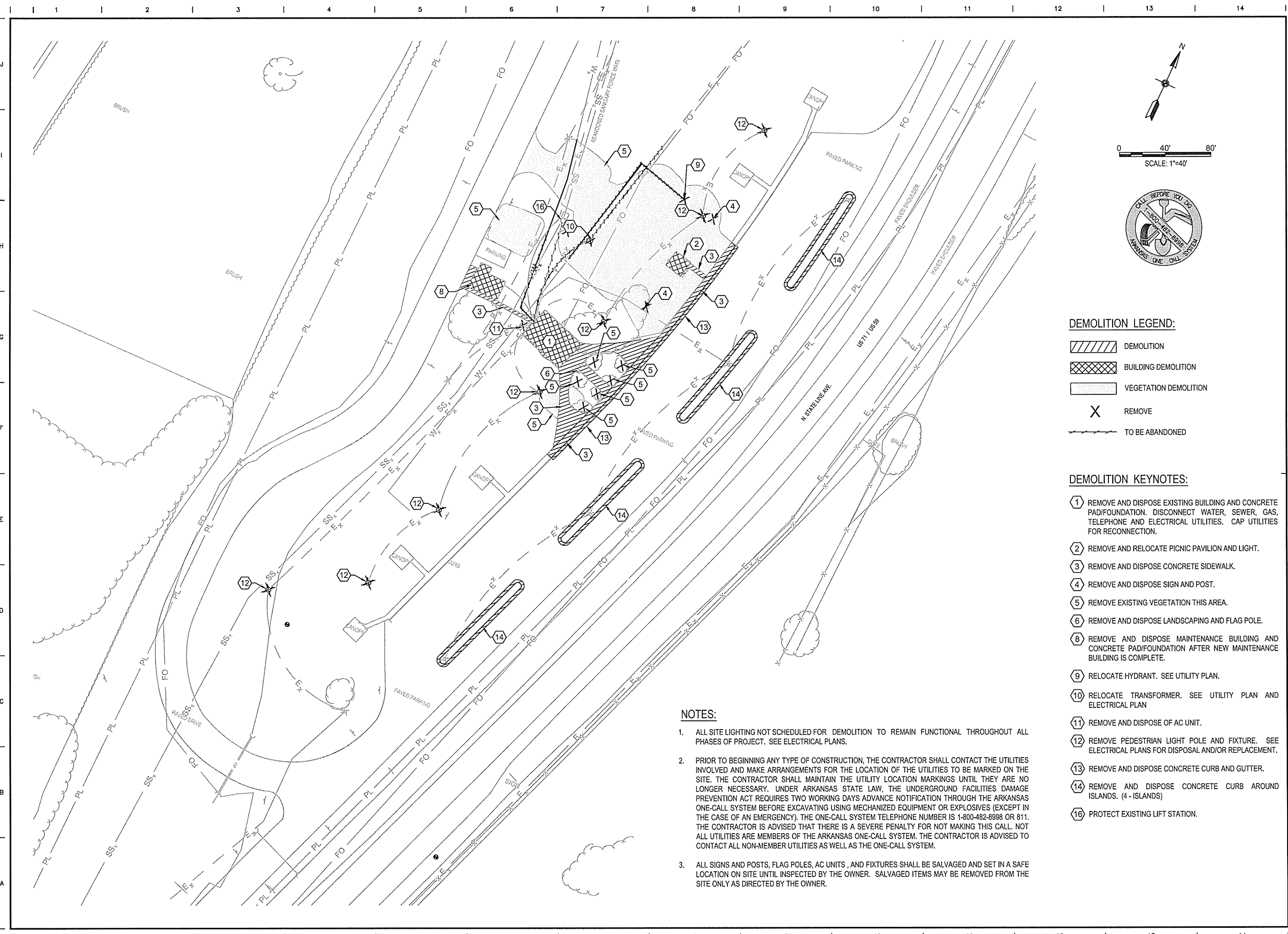
CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARKANSAS

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 SEMLEY TAYLOR

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-101
REV	5 OF 114

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DEMOLITION LEGEND:

- DEMOLITION
- BUILDING DEMOLITION
- VEGETATION DEMOLITION
- REMOVE
- TO BE ABANDONED

DEMOLITION KEYNOTES:

- 1 REMOVE AND DISPOSE EXISTING BUILDING AND CONCRETE PAD/FOUNDATION. DISCONNECT WATER, SEWER, GAS, TELEPHONE AND ELECTRICAL UTILITIES. CAP UTILITIES FOR RECONNECTION.
- 2 REMOVE AND RELOCATE PICNIC PAVILION AND LIGHT.
- 3 REMOVE AND DISPOSE CONCRETE SIDEWALK.
- 4 REMOVE AND DISPOSE SIGN AND POST.
- 5 REMOVE EXISTING VEGETATION THIS AREA.
- 6 REMOVE AND DISPOSE LANDSCAPING AND FLAG POLE.
- 8 REMOVE AND DISPOSE MAINTENANCE BUILDING AND CONCRETE PAD/FOUNDATION AFTER NEW MAINTENANCE BUILDING IS COMPLETE.
- 9 RELOCATE HYDRANT. SEE UTILITY PLAN.
- 10 RELOCATE TRANSFORMER. SEE UTILITY PLAN AND ELECTRICAL PLAN
- 11 REMOVE AND DISPOSE OF AC UNIT.
- 12 REMOVE PEDESTRIAN LIGHT POLE AND FIXTURE. SEE ELECTRICAL PLANS FOR DISPOSAL AND/OR REPLACEMENT.
- 13 REMOVE AND DISPOSE CONCRETE CURB AND GUTTER.
- 14 REMOVE AND DISPOSE CONCRETE CURB AROUND ISLANDS. (4 - ISLANDS)
- 16 PROTECT EXISTING LIFT STATION.

NOTES:

1. ALL SITE LIGHTING NOT SCHEDULED FOR DEMOLITION TO REMAIN FUNCTIONAL THROUGHOUT ALL PHASES OF PROJECT. SEE ELECTRICAL PLANS.
2. PRIOR TO BEGINNING ANY TYPE OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES TO BE MARKED ON THE SITE. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. UNDER ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM TELEPHONE NUMBER IS 1-800-482-8998 OR 811. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.
3. ALL SIGNS AND POSTS, FLAG POLES, AC UNITS, AND FIXTURES SHALL BE SALVAGED AND SET IN A SAFE LOCATION ON SITE UNTIL INSPECTED BY THE OWNER. SALVAGED ITEMS MAY BE REMOVED FROM THE SITE ONLY AS DIRECTED BY THE OWNER.

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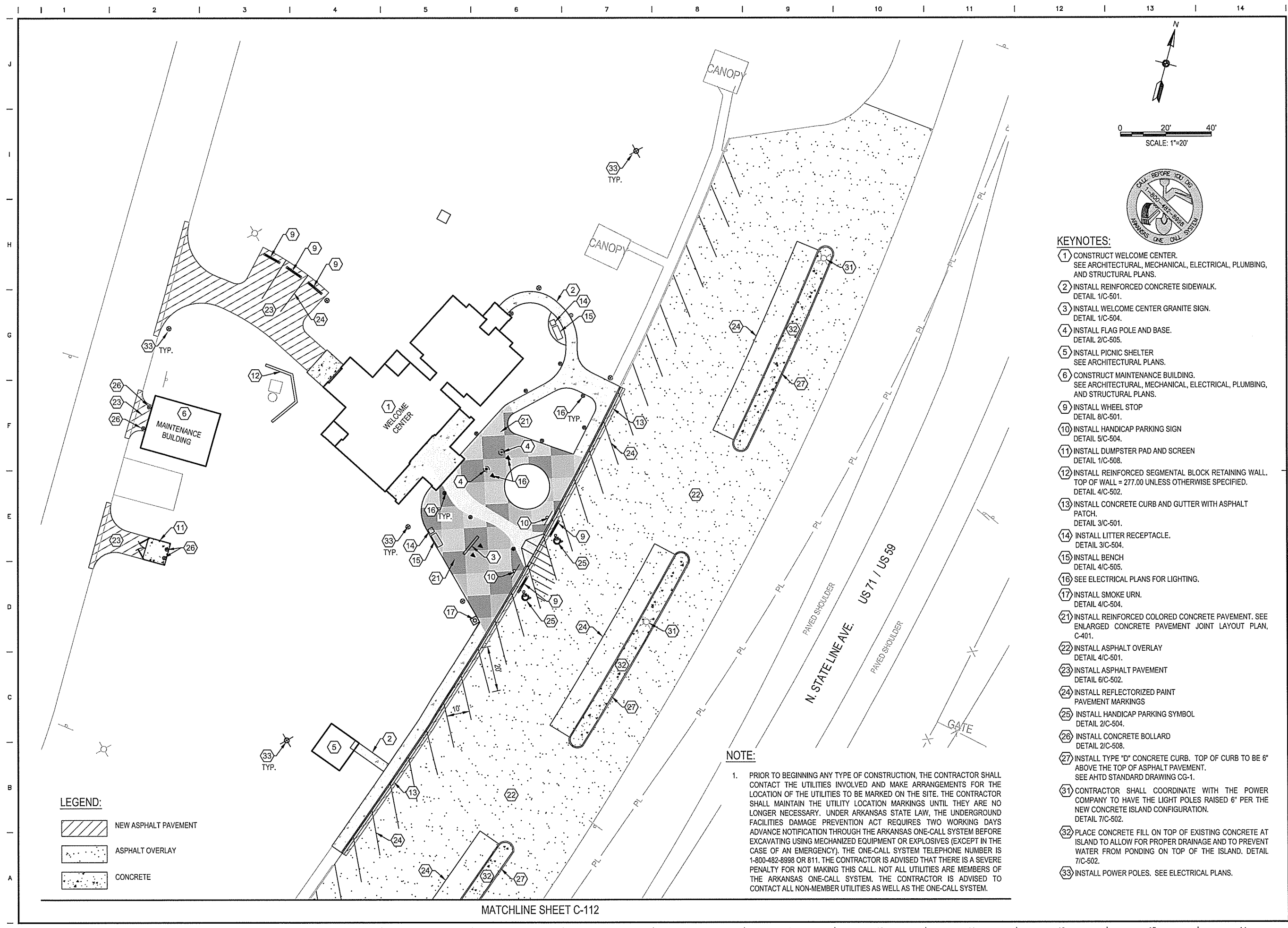
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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 DEMOLITION PLAN

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-102
REV	6 OF 114

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- KEYNOTES:**
- CONSTRUCT WELCOME CENTER. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL PLANS.
 - INSTALL REINFORCED CONCRETE SIDEWALK. DETAIL 1/C-501.
 - INSTALL WELCOME CENTER GRANITE SIGN. DETAIL 1/C-504.
 - INSTALL FLAG POLE AND BASE. DETAIL 2/C-505.
 - INSTALL PICNIC SHELTER. SEE ARCHITECTURAL PLANS.
 - CONSTRUCT MAINTENANCE BUILDING. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND STRUCTURAL PLANS.
 - INSTALL WHEEL STOP. DETAIL 8/C-501.
 - INSTALL HANDICAP PARKING SIGN. DETAIL 5/C-504.
 - INSTALL DUMPSTER PAD AND SCREEN. DETAIL 1/C-508.
 - INSTALL REINFORCED SEGMENTAL BLOCK RETAINING WALL. TOP OF WALL = 277.00 UNLESS OTHERWISE SPECIFIED. DETAIL 4/C-502.
 - INSTALL CONCRETE CURB AND GUTTER WITH ASPHALT PATCH. DETAIL 3/C-501.
 - INSTALL LITTER RECEPTACLE. DETAIL 3/C-504.
 - INSTALL BENCH. DETAIL 4/C-505.
 - SEE ELECTRICAL PLANS FOR LIGHTING.
 - INSTALL SMOKE URN. DETAIL 4/C-504.
 - INSTALL REINFORCED COLORED CONCRETE PAVEMENT. SEE ENLARGED CONCRETE PAVEMENT JOINT LAYOUT PLAN, C-401.
 - INSTALL ASPHALT OVERLAY. DETAIL 4/C-501.
 - INSTALL ASPHALT PAVEMENT. DETAIL 6/C-502.
 - INSTALL REFLECTORIZED PAINT PAVEMENT MARKINGS.
 - INSTALL HANDICAP PARKING SYMBOL. DETAIL 2/C-504.
 - INSTALL CONCRETE BOLLARD. DETAIL 2/C-508.
 - INSTALL TYPE "D" CONCRETE CURB. TOP OF CURB TO BE 6" ABOVE THE TOP OF ASPHALT PAVEMENT. SEE AHTD STANDARD DRAWING CG-1.
 - CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO HAVE THE LIGHT POLES RAISED 6" PER THE NEW CONCRETE ISLAND CONFIGURATION. DETAIL 7/C-502.
 - PLACE CONCRETE FILL ON TOP OF EXISTING CONCRETE AT ISLAND TO ALLOW FOR PROPER DRAINAGE AND TO PREVENT WATER FROM PONDING ON TOP OF THE ISLAND. DETAIL 7/C-502.
 - INSTALL POWER POLES. SEE ELECTRICAL PLANS.

NOTE:

- PRIOR TO BEGINNING ANY TYPE OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES TO BE MARKED ON THE SITE. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. UNDER ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM TELEPHONE NUMBER IS 1-800-482-8998 OR 811. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARKANSAS

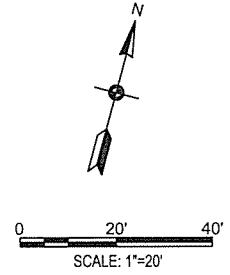
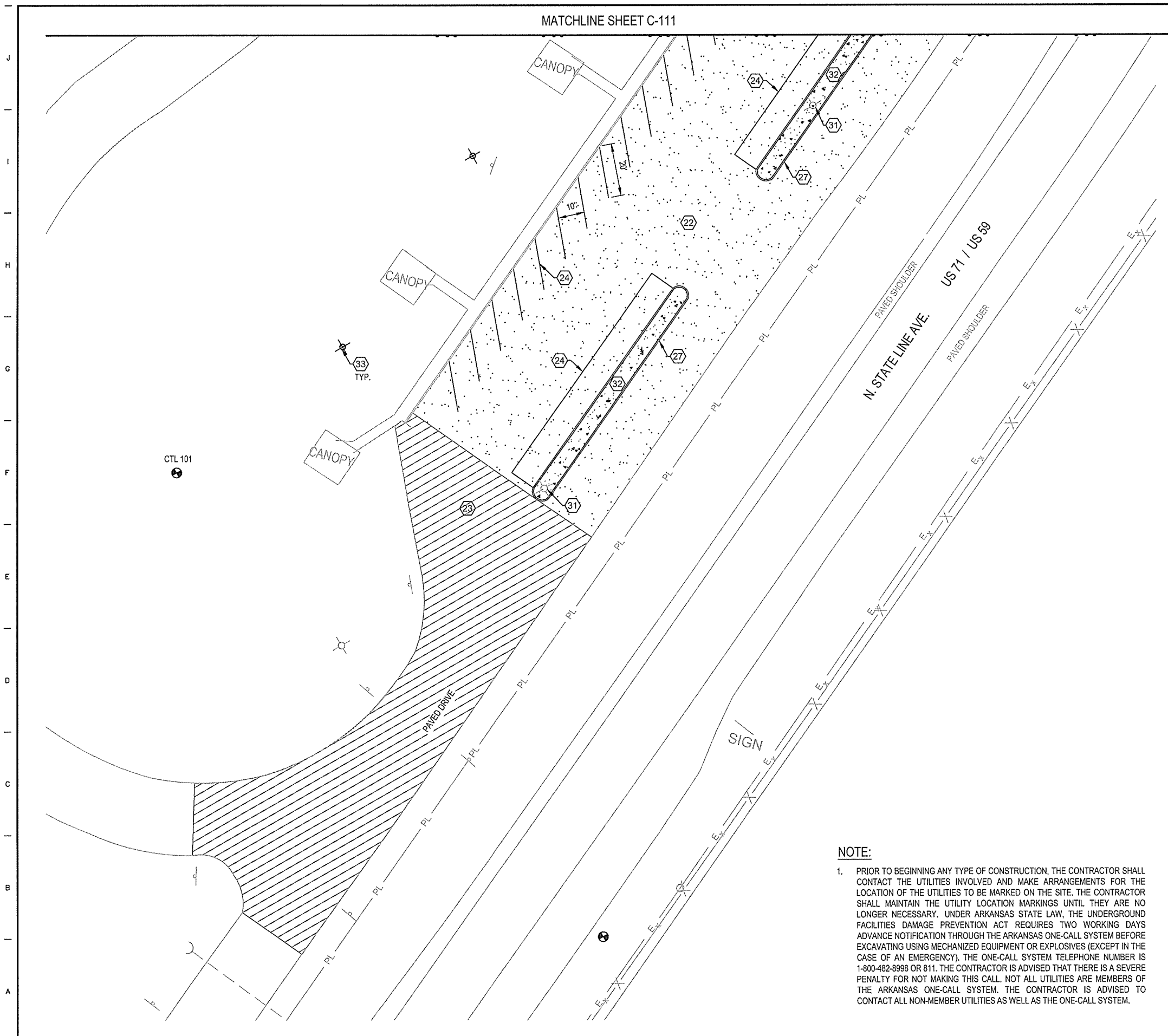
STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 M. SCOTT TAYLOR

SITE PLAN SHEET 1 OF 2

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-111
REV	7 OF 114

MATCHLINE SHEET C-112

MATCHLINE SHEET C-111



KEYNOTES:

- 22) INSTALL ASPHALT OVERLAY
DETAIL 4/C-501.
- 23) INSTALL ASPHALT PAVEMENT
DETAIL 6/C-502.
- 24) INSTALL REFLECTORIZED PAINT PAVEMENT MARKINGS
- 27) INSTALL TYPE "D" CONCRETE CURB. TOP OF CURB TO BE 6" ABOVE THE TOP OF ASPHALT PAVEMENT. SEE AHTD STANDARD DRAWING CG-1.
- 31) CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO HAVE THE LIGHT POLES RAISED 6" PER THE NEW CONCRETE ISLAND CONFIGURATION. DETAIL 7/C-502.
- 32) PLACE CONCRETE FILL ON TOP OF EXISTING CONCRETE AT ISLAND TO ALLOW FOR PROPER DRAINAGE AND TO PREVENT WATER FROM PONDING ON TOP OF THE ISLAND. DETAIL 7/C-502.
- 33) INSTALL POWER POLES. SEE ELECTRICAL PLANS.

LEGEND:

- NEW ASPHALT PAVEMENT
- ASPHALT OVERLAY
- CONCRETE

NOTE:

1. PRIOR TO BEGINNING ANY TYPE OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITIES INVOLVED AND MAKE ARRANGEMENTS FOR THE LOCATION OF THE UTILITIES TO BE MARKED ON THE SITE. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY. UNDER ARKANSAS STATE LAW, THE UNDERGROUND FACILITIES DAMAGE PREVENTION ACT REQUIRES TWO WORKING DAYS ADVANCE NOTIFICATION THROUGH THE ARKANSAS ONE-CALL SYSTEM BEFORE EXCAVATING USING MECHANIZED EQUIPMENT OR EXPLOSIVES (EXCEPT IN THE CASE OF AN EMERGENCY). THE ONE-CALL SYSTEM TELEPHONE NUMBER IS 1-800-482-8998 OR 811. THE CONTRACTOR IS ADVISED THAT THERE IS A SEVERE PENALTY FOR NOT MAKING THIS CALL. NOT ALL UTILITIES ARE MEMBERS OF THE ARKANSAS ONE-CALL SYSTEM. THE CONTRACTOR IS ADVISED TO CONTACT ALL NON-MEMBER UTILITIES AS WELL AS THE ONE-CALL SYSTEM.

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 REMLEY TAYLOR

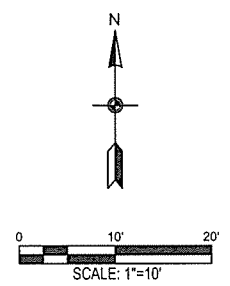
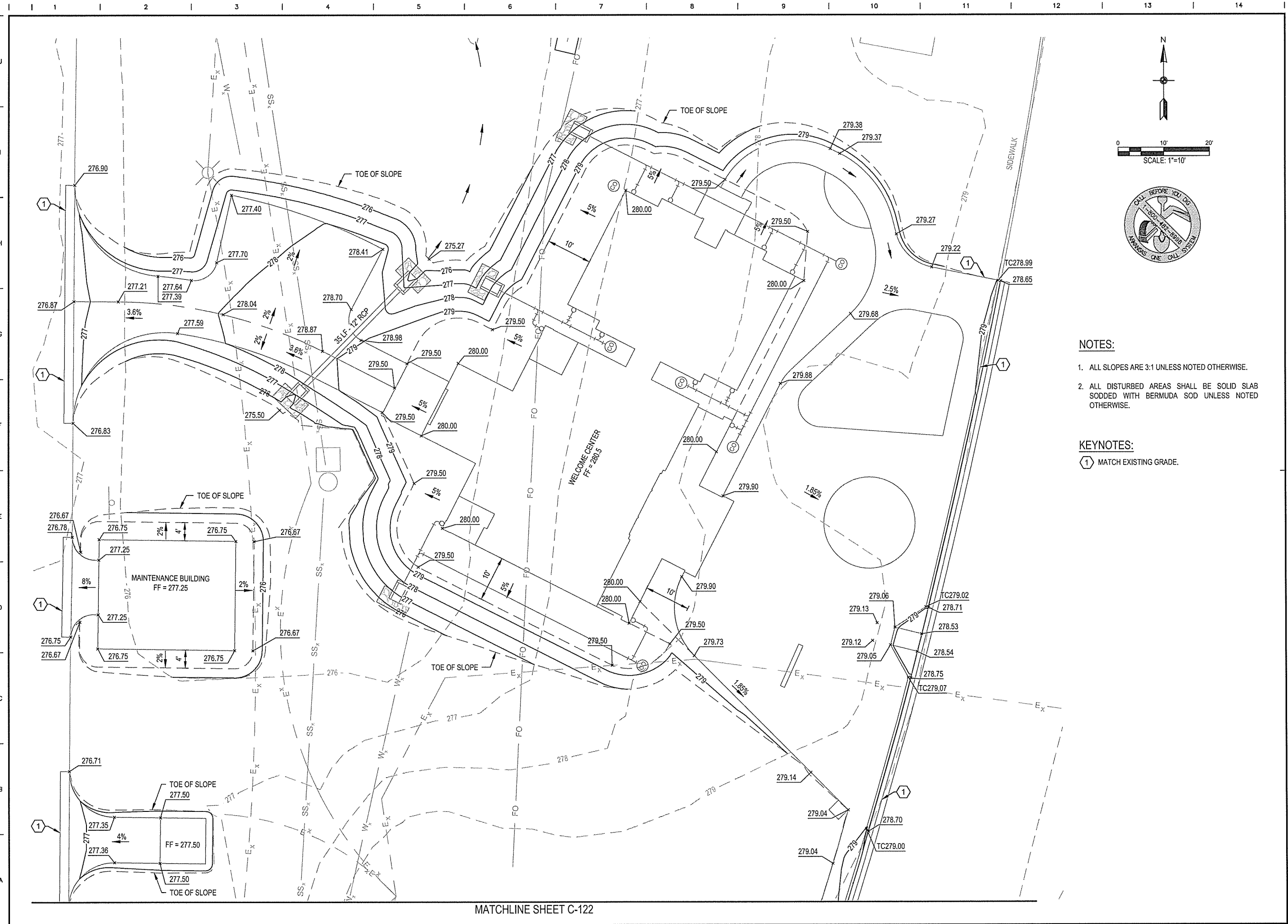
SITE PLAN SHEET 2 OF 2

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-112
REV	8 OF 114

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- NOTES:**
1. ALL SLOPES ARE 3:1 UNLESS NOTED OTHERWISE.
 2. ALL DISTURBED AREAS SHALL BE SOLID SLAB SODDED WITH BERMUDA SOD UNLESS NOTED OTHERWISE.

- KEYNOTES:**
- ① MATCH EXISTING GRADE.

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

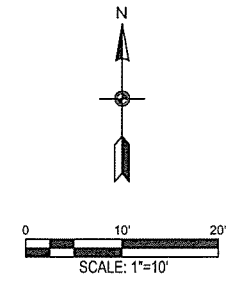
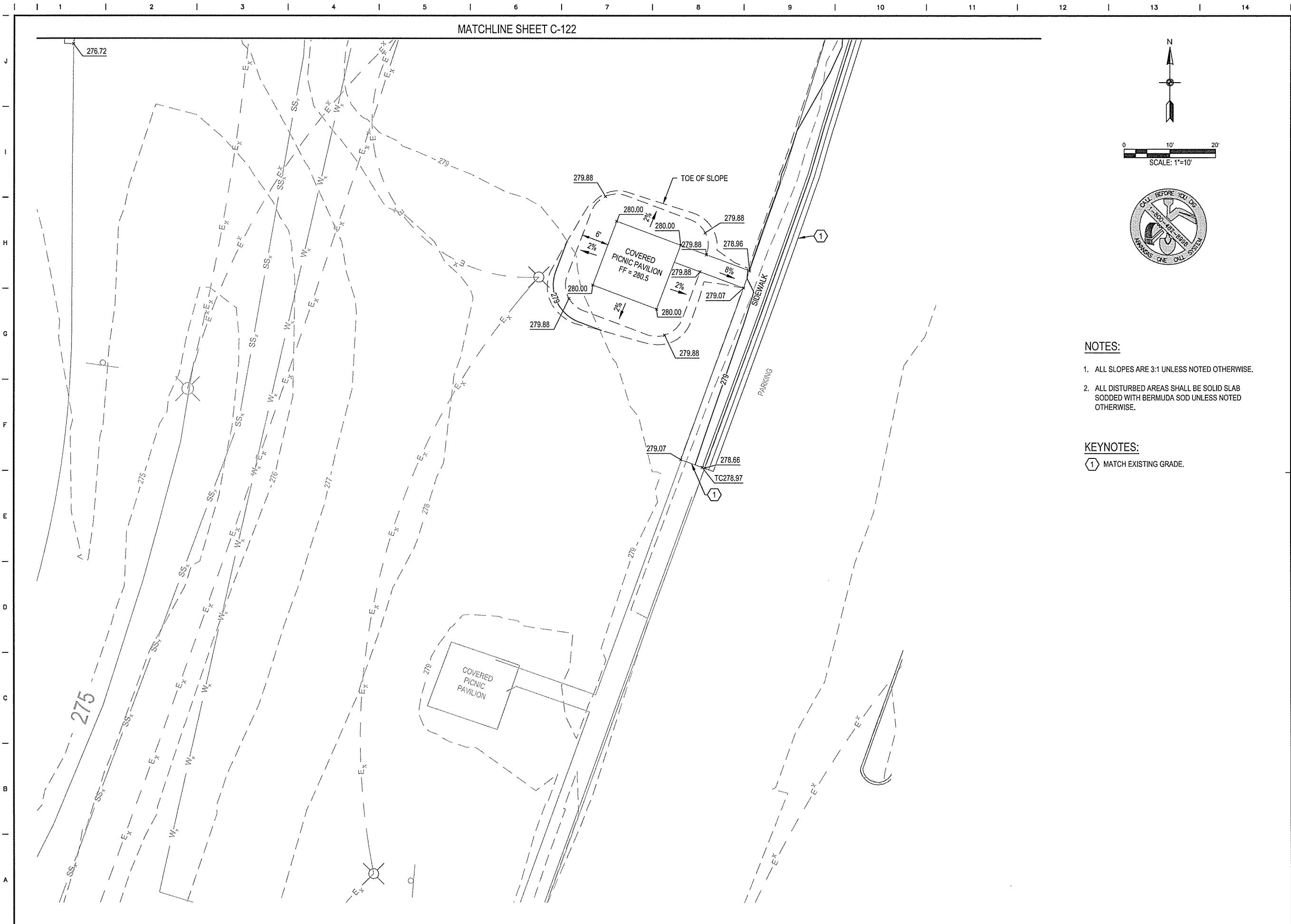
GRADING PLAN SHEET 1 OF 2

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-121
REV	9 OF 114

MATCHLINE SHEET C-122

MATCHLINE SHEET C-122



NOTES:

1. ALL SLOPES ARE 3:1 UNLESS NOTED OTHERWISE.
2. ALL DISTURBED AREAS SHALL BE SOLID SLAB SODDED WITH BERMUDA SOD UNLESS NOTED OTHERWISE.

KEYNOTES:

- ① MATCH EXISTING GRADE.

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0	9/25/2015				



ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

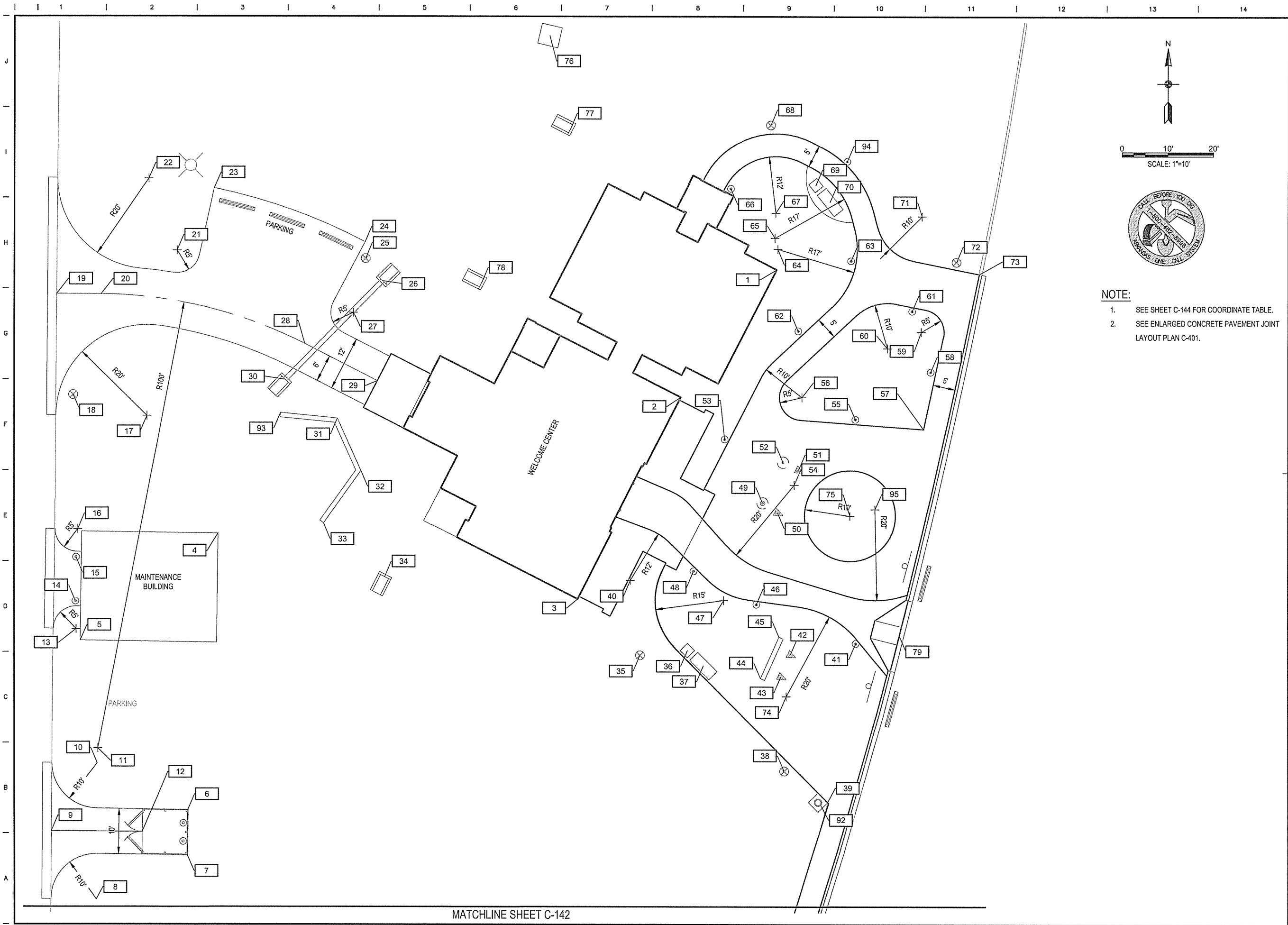
GRADING PLAN SHEET 2 OF 2

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-122
REV	10 OF 114

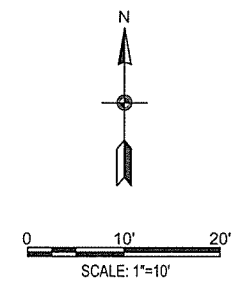
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 Date: September 22, 2015 - 3:55pm
 User: mmlmap



MATCHLINE SHEET C-142

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- NOTE:**
- SEE SHEET C-144 FOR COORDINATE TABLE.
 - SEE ENLARGED CONCRETE PAVEMENT JOINT LAYOUT PLAN C-401.

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

DESIGNED BY: JEG
 DRAWN BY: PMM
 CHECKED BY: RRT
 APPROVED BY: RRT

DATE: 9/25/2015
 SCALE: AS SHOWN
 LEIDOS PROJECT NUMBER: 313841
 SHEET: C-141
 REV: 11 OF 114

REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 JERRY BREMLEY TAYLOR

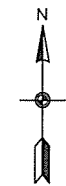
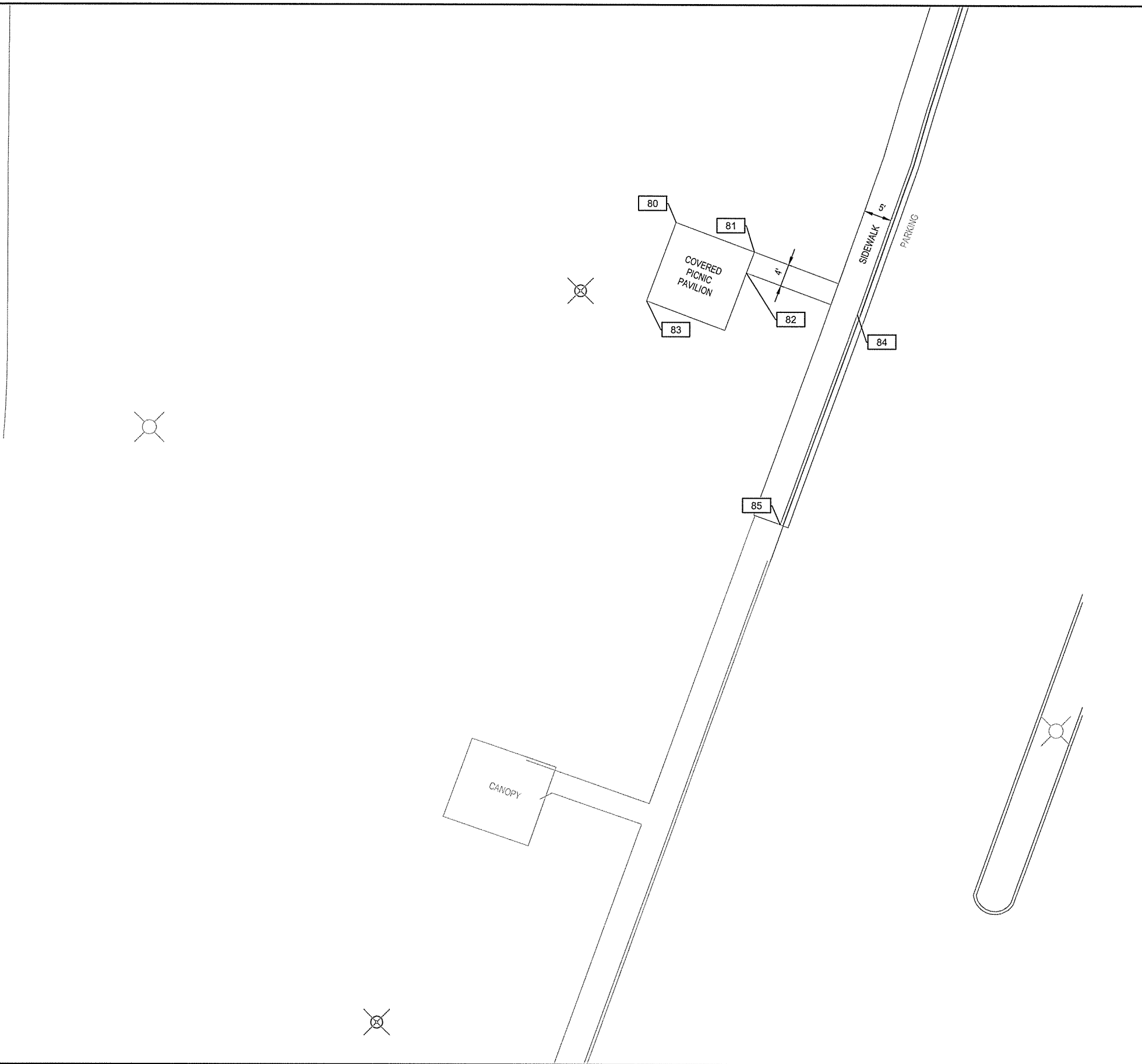
STATE OF ARKANSAS
 CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARKANSAS

GEOMETRY PLAN SHEET 1 OF 4

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 User: mmlmap

MATCHLINE SHEET C-141

MATCHLINE SHEET C-143



0 10' 20'
SCALE: 1"=10'



NOTE:
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0	9/25/2015				

ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

STATE OF ARIZONA
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 ROWLEY TAYLOR

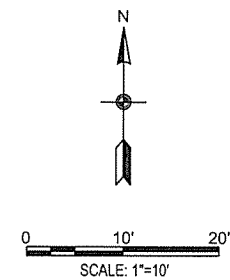
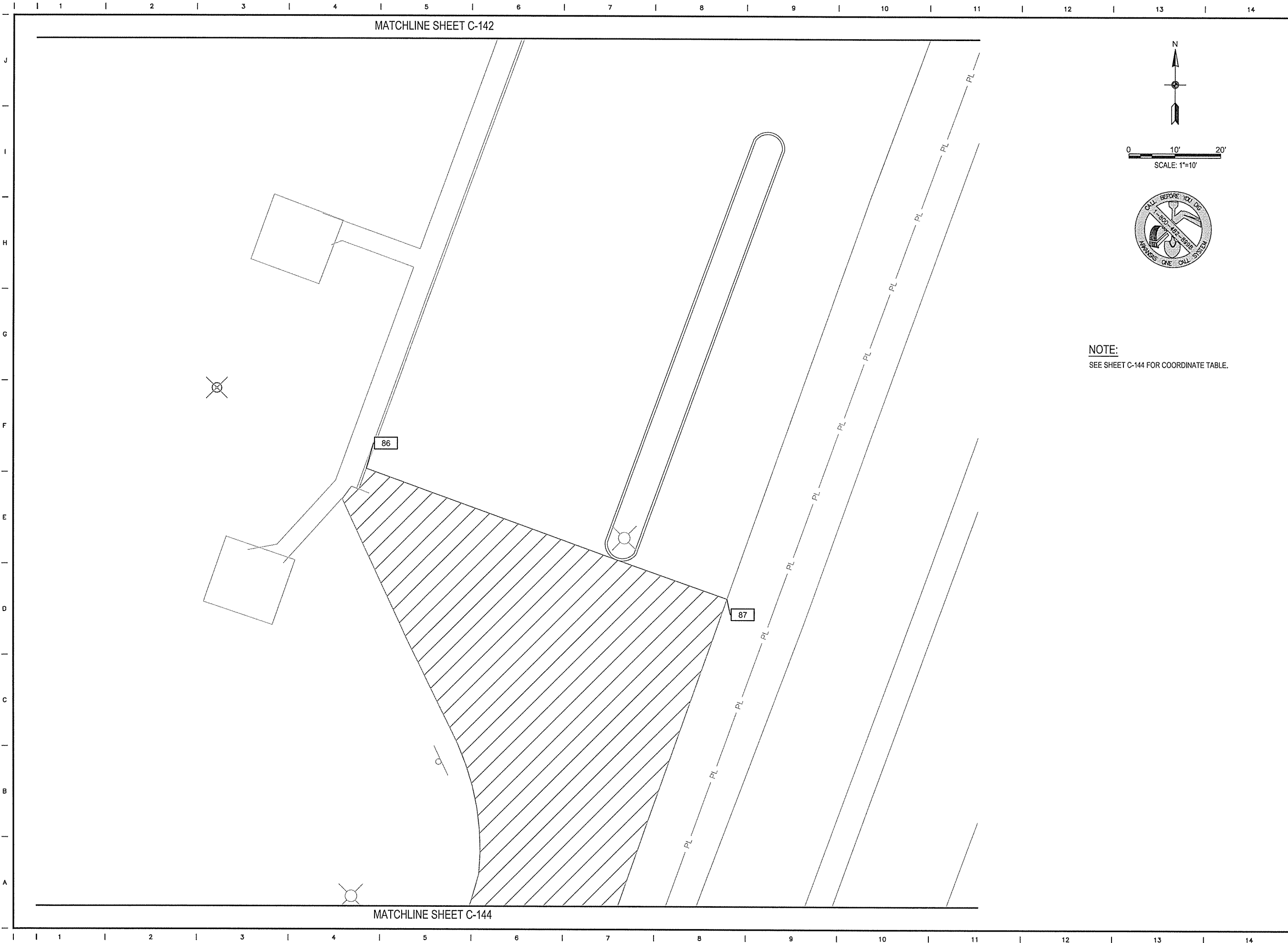
LEIDOS ENGINEERING, LLC
 No. 510
 ARKANSAS

GEOMETRY PLAN SHEET 2 OF 4

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-142
REV	
12 OF 114	

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 Date of Save: 9/25/2015 2:21:20 PM
 User: mullinsp



NOTE:
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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARIZONA WELCOME CENTER
 RED RIVER

STATE OF ARIZONA
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 R. BEMLEY TAYLOR

CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARIZONA

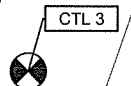
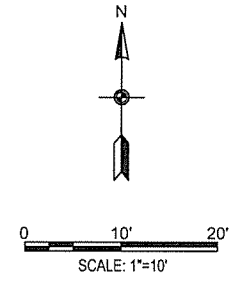
GEOMETRY PLAN SHEET 3 OF 4

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-143
REV	
13 OF 114	



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0	9/25/2015	ISSUED FOR BID		

ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449

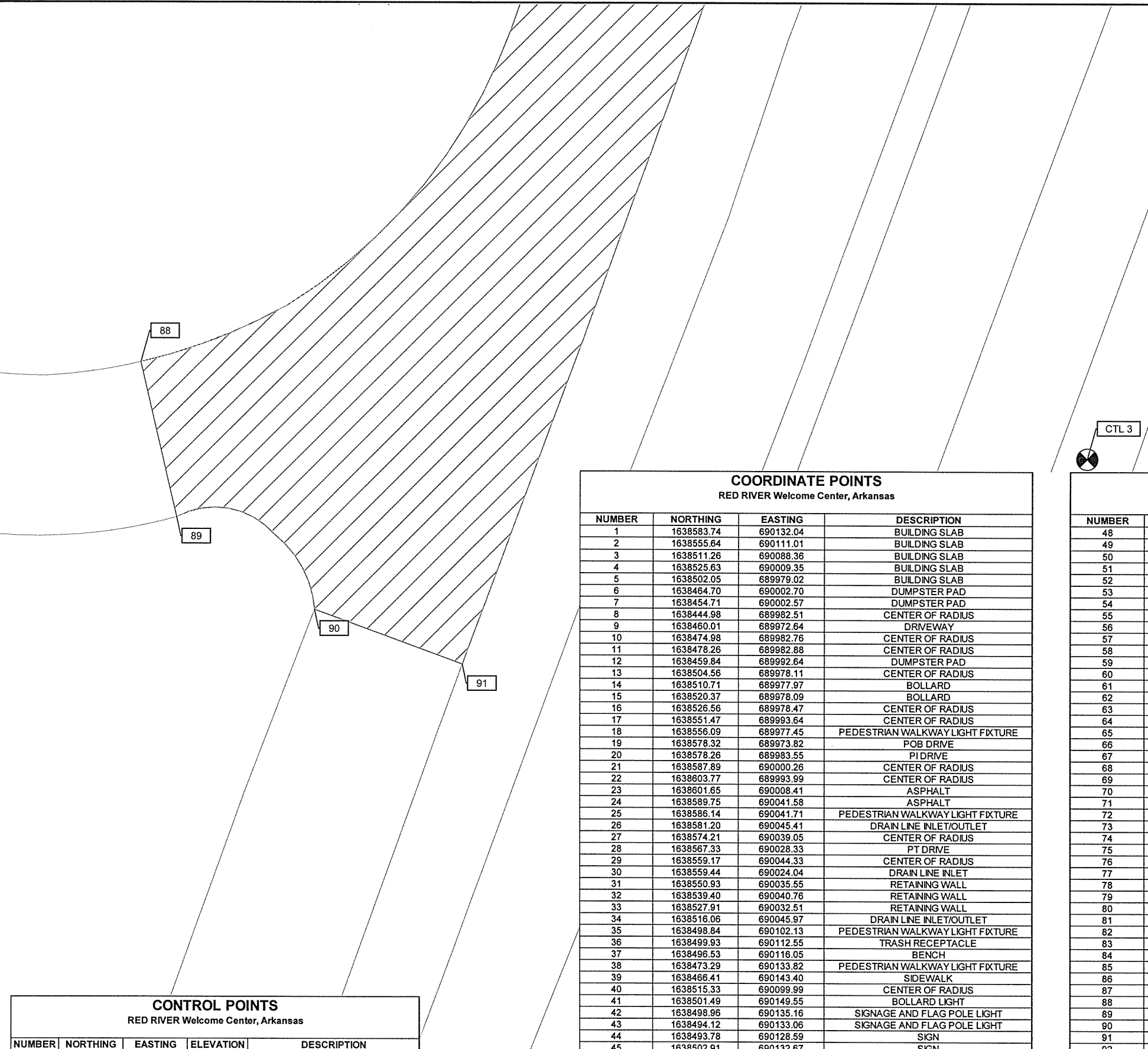
ARIZONA WELCOME CENTER
 RED RIVER

GEOMETRY PLAN SHEET 4 OF 4

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
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DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-144
REV	14 OF 114



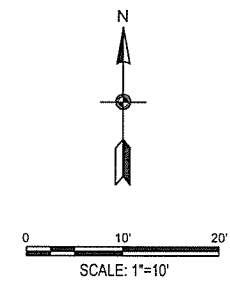
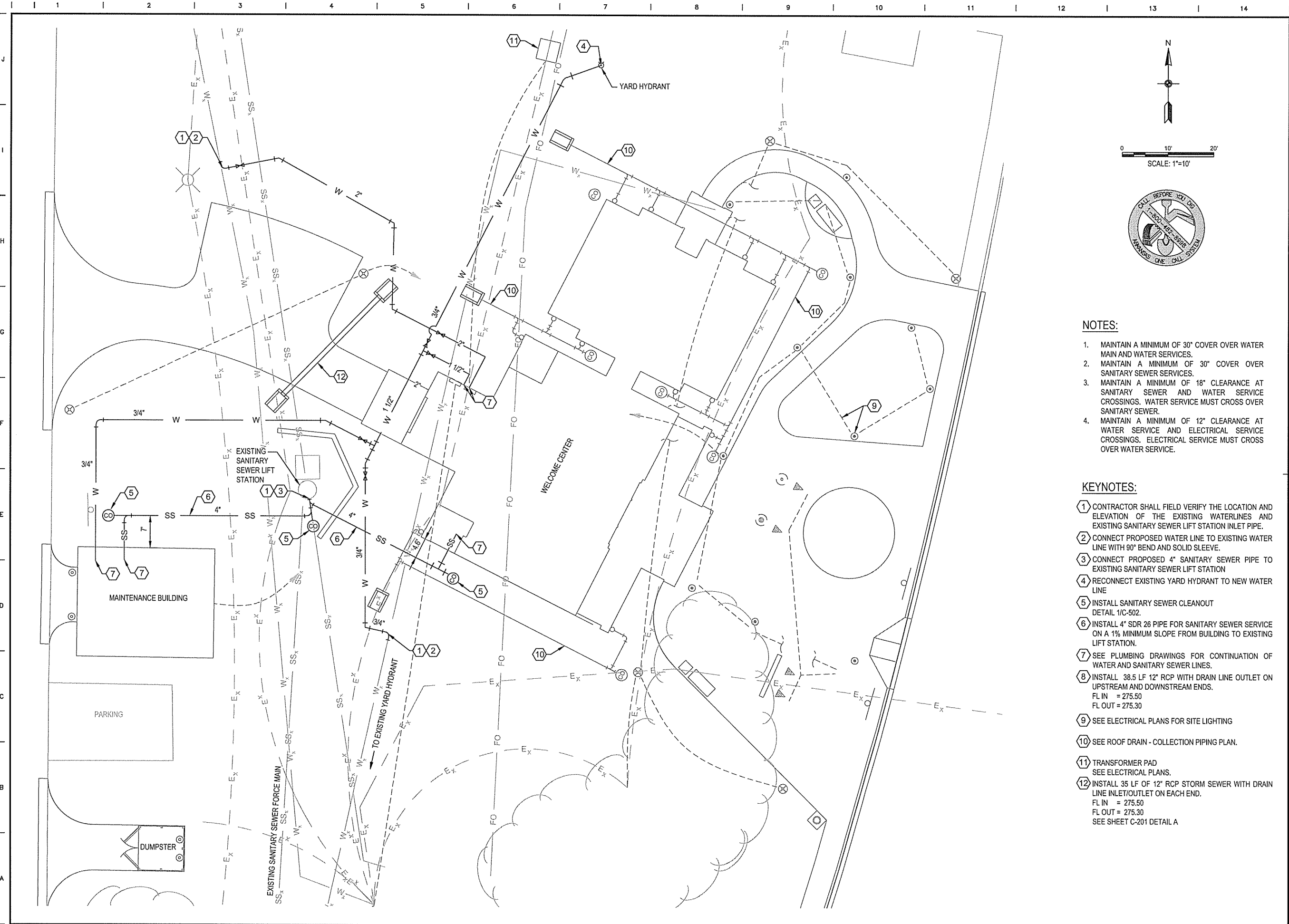
COORDINATE POINTS RED RIVER Welcome Center, Arkansas			
NUMBER	NORTHING	EASTING	DESCRIPTION
1	1638583.74	690132.04	BUILDING SLAB
2	1638555.64	690111.01	BUILDING SLAB
3	1638511.26	690088.36	BUILDING SLAB
4	1638525.63	690009.35	BUILDING SLAB
5	1638502.05	689979.02	BUILDING SLAB
6	1638464.70	690002.70	DUMPSTER PAD
7	1638454.71	690002.57	DUMPSTER PAD
8	1638444.98	689982.51	CENTER OF RADIUS
9	1638460.01	689972.64	DRIVEWAY
10	1638474.98	689982.76	CENTER OF RADIUS
11	1638478.26	689982.88	CENTER OF RADIUS
12	1638459.84	689982.64	DUMPSTER PAD
13	1638504.56	689978.11	CENTER OF RADIUS
14	1638510.71	689977.97	BOLLARD
15	1638520.37	689978.09	BOLLARD
16	1638526.56	689978.47	CENTER OF RADIUS
17	1638551.47	689993.64	CENTER OF RADIUS
18	1638556.09	689977.45	PEDESTRIAN WALKWAY LIGHT FIXTURE
19	1638578.32	689973.82	POB DRIVE
20	1638578.26	689983.55	PI DRIVE
21	1638587.89	690000.26	CENTER OF RADIUS
22	1638603.77	689993.99	CENTER OF RADIUS
23	1638601.65	690008.41	ASPHALT
24	1638589.75	690041.58	ASPHALT
25	1638586.14	690041.71	PEDESTRIAN WALKWAY LIGHT FIXTURE
26	1638581.20	690045.41	DRAIN LINE INLET/OUTLET
27	1638574.21	690039.05	CENTER OF RADIUS
28	1638567.33	690028.33	PT DRIVE
29	1638559.17	690044.33	CENTER OF RADIUS
30	1638559.44	690024.04	DRAIN LINE INLET
31	1638550.93	690035.55	RETAINING WALL
32	1638539.40	690040.76	RETAINING WALL
33	1638527.91	690032.51	RETAINING WALL
34	1638516.06	690045.97	DRAIN LINE INLET/OUTLET
35	1638498.84	690102.13	PEDESTRIAN WALKWAY LIGHT FIXTURE
36	1638499.93	690112.55	TRASH RECEPTACLE
37	1638496.53	690116.05	BENCH
38	1638473.29	690133.82	PEDESTRIAN WALKWAY LIGHT FIXTURE
39	1638466.41	690143.40	SIDEWALK
40	1638515.33	690099.99	CENTER OF RADIUS
41	1638501.49	690149.55	BOLLARD LIGHT
42	1638498.96	690135.16	SIGNAGE AND FLAG POLE LIGHT
43	1638494.12	690133.06	SIGNAGE AND FLAG POLE LIGHT
44	1638493.78	690128.59	SIGN
45	1638502.91	690132.67	SIGN
46	1638510.06	690127.67	BOLLARD LIGHT
47	1638510.95	690120.48	CENTER OF RADIUS

COORDINATE POINTS RED RIVER Welcome Center, Arkansas			
NUMBER	NORTHING	EASTING	DESCRIPTION
48	1638517.39	690113.89	LIGHTED BOLLARD
49	1638532.40	690129.01	FLAGPOLE
50	1638530.26	690132.33	LIGHT
51	1638539.60	690136.93	LIGHT
52	1638541.33	690133.51	FLAGPOLE
53	1638546.40	690120.67	LIGHTED BOLLARD
54	1638536.38	690135.98	CENTER OF RADIUS
55	1638550.80	690149.42	LIGHTED BOLLARD
56	1638555.62	690137.67	CENTER OF RADIUS
57	1638548.62	690164.38	SIDEWALK
58	1638561.21	690165.90	BOLLARD LIGHT
59	1638570.01	690163.83	CENTER OF RADIUS
60	1638566.41	690156.44	CENTER OF RADIUS
61	1638574.61	690161.81	BOLLARD LIGHT
62	1638570.22	690136.79	BOLLARD LIGHT
63	1638585.70	690148.39	BOLLARD LIGHT
64	1638588.26	690132.24	CENTER OF RADIUS
65	1638590.69	690131.61	CENTER OF RADIUS
66	1638601.59	690121.88	BOLLARD LIGHT
67	1638596.21	690131.80	CENTER OF RADIUS
68	1638615.59	690130.64	PEDESTRIAN WALKWAY LIGHT FIXTURE
69	1638602.37	690140.60	TRASH RECEPTACLE
70	1638598.64	690143.74	BENCH
71	1638595.50	690163.94	CENTER OF RADIUS
72	1638585.43	690171.51	PEDESTRIAN WALKWAY LIGHT FIXTURE
73	1638582.75	690176.52	BACK OF CURB
74	1638489.77	690134.96	CENTER OF RADIUS
75	1638529.58	690148.25	CENTER OF RADIUS
76	1638635.30	690082.03	TRANSFORMER
77	1638614.78	690086.61	DRAIN LINE INLET/OUTLET
78	1638580.73	690067.18	DRAIN LINE INLET/OUTLET
79	1638503.23	690159.13	HANDICAP RAMP
80	1638406.02	690091.70	PICNIC PAVILLION
81	1638400.76	690105.75	SIDEWALK
82	1638397.02	690104.35	SIDEWALK
83	1638391.98	690086.44	PICNIC PAVILLION
84	1638389.60	690124.12	BACK OF CURB
85	1638351.94	690110.49	BACK OF CURB
86	1638160.89	690041.63	ASPHALT
87	1638132.48	690120.46	ASPHALT
88	1638001.40	689997.39	ASPHALT
89	1637974.04	690003.79	ASPHALT
90	1637957.79	690028.08	ASPHALT
91	1637948.15	690054.18	ASPHALT
92	1638466.43	690141.27	SMOKE URN
93	1638552.18	690023.05	RETAINING WALL
94	1638607.63	690147.51	BOLLARD LIGHT
95	1638530.99	690153.80	CENTER OF RADIUS

CONTROL POINTS RED RIVER Welcome Center, Arkansas				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
3	1637984.555	690164.2822	275.41	PD:AHTD STD. MON. STAMPED PN:1
101	1638115.103	689959.8357	275.55	PD:AHTD GPS #460044A

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 Date: September 22, 2015 - 3:37pm
 User: mullins

File name: W:\E\B\Highway\Highway\131841 - ahf\welcome center\DESIGN\10_CAD\Drawn_rvt\10CPRC-151.dwg
 Date: September 22, 2015 - 3:37pm
 User: mullins



NOTES:

1. MAINTAIN A MINIMUM OF 30" COVER OVER WATER MAIN AND WATER SERVICES.
2. MAINTAIN A MINIMUM OF 30" COVER OVER SANITARY SEWER SERVICES.
3. MAINTAIN A MINIMUM OF 18" CLEARANCE AT SANITARY SEWER AND WATER SERVICE CROSSINGS. WATER SERVICE MUST CROSS OVER SANITARY SEWER.
4. MAINTAIN A MINIMUM OF 12" CLEARANCE AT WATER SERVICE AND ELECTRICAL SERVICE CROSSINGS. ELECTRICAL SERVICE MUST CROSS OVER WATER SERVICE.

KEYNOTES:

- 1 CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND ELEVATION OF THE EXISTING WATERLINES AND EXISTING SANITARY SEWER LIFT STATION INLET PIPE.
- 2 CONNECT PROPOSED WATER LINE TO EXISTING WATER LINE WITH 90° BEND AND SOLID SLEEVE.
- 3 CONNECT PROPOSED 4" SANITARY SEWER PIPE TO EXISTING SANITARY SEWER LIFT STATION
- 4 RECONNECT EXISTING YARD HYDRANT TO NEW WATER LINE
- 5 INSTALL SANITARY SEWER CLEANOUT
DETAIL 1/C-502.
- 6 INSTALL 4" SDR 26 PIPE FOR SANITARY SEWER SERVICE ON A 1% MINIMUM SLOPE FROM BUILDING TO EXISTING LIFT STATION.
- 7 SEE PLUMBING DRAWINGS FOR CONTINUATION OF WATER AND SANITARY SEWER LINES.
- 8 INSTALL 38.5 LF 12" RCP WITH DRAIN LINE OUTLET ON UPSTREAM AND DOWNSTREAM ENDS.
FL IN = 275.50
FL OUT = 275.30
- 9 SEE ELECTRICAL PLANS FOR SITE LIGHTING
- 10 SEE ROOF DRAIN - COLLECTION PIPING PLAN.
- 11 TRANSFORMER PAD
SEE ELECTRICAL PLANS.
- 12 INSTALL 35 LF OF 12" RCP STORM SEWER WITH DRAIN LINE INLET/OUTLET ON EACH END.
FL IN = 275.50
FL OUT = 275.30
SEE SHEET C-201 DETAIL A

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
 RED RIVER
 UTILITY PLAN

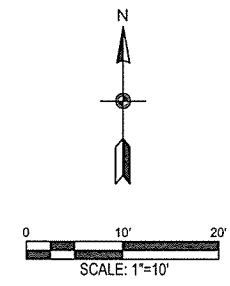
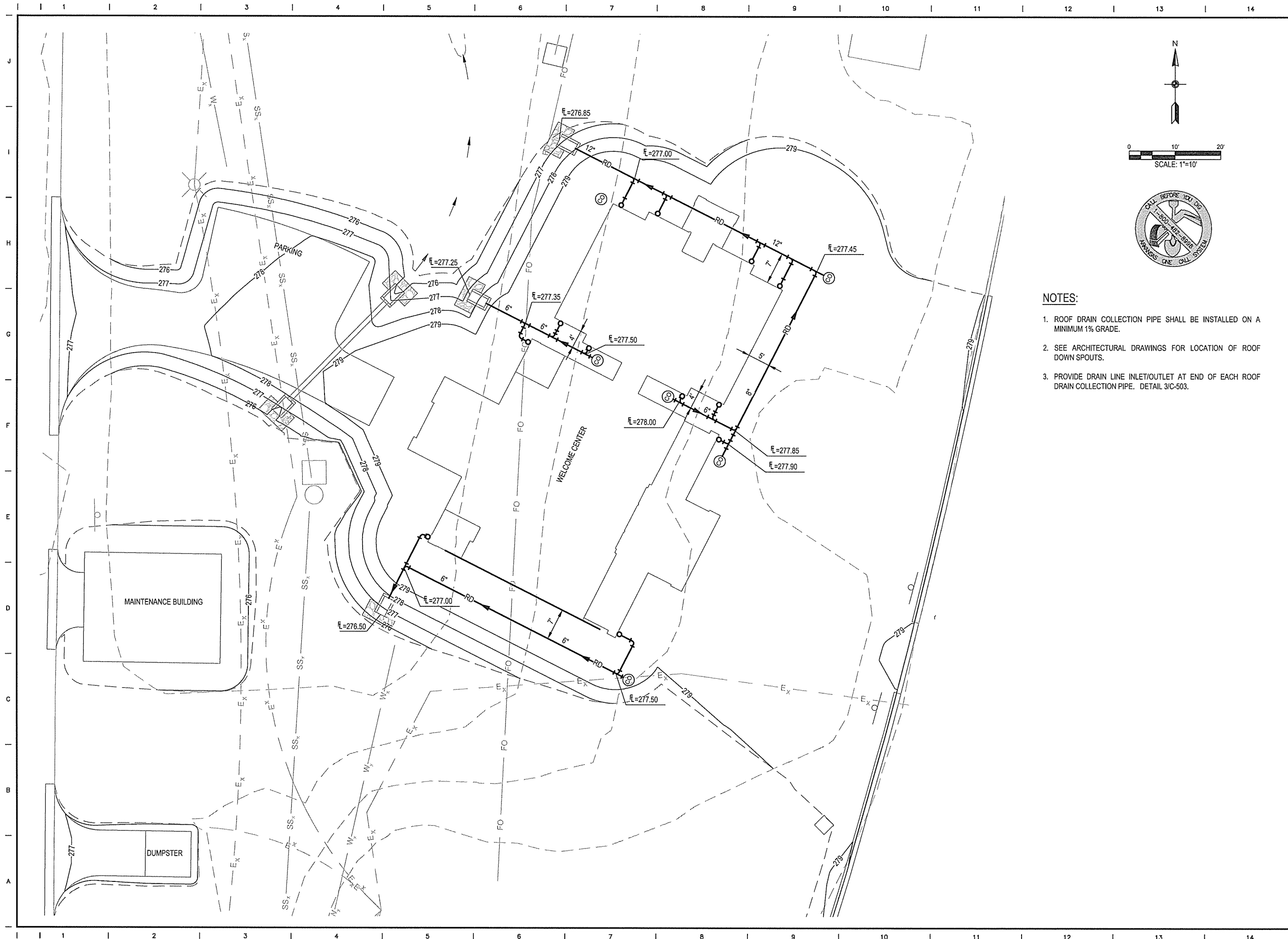
CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARIZONA

REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 PAUL E. TAYLOR

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-151
REV	
15 OF 114	

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 Date: September 22, 2015 - 3:38pm
 User: rmlm



NOTES:

1. ROOF DRAIN COLLECTION PIPE SHALL BE INSTALLED ON A MINIMUM 1% GRADE.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ROOF DOWN SPOUTS.
3. PROVIDE DRAIN LINE INLET/OUTLET AT END OF EACH ROOF DRAIN COLLECTION PIPE. DETAIL 3/C-503.

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
 RED RIVER

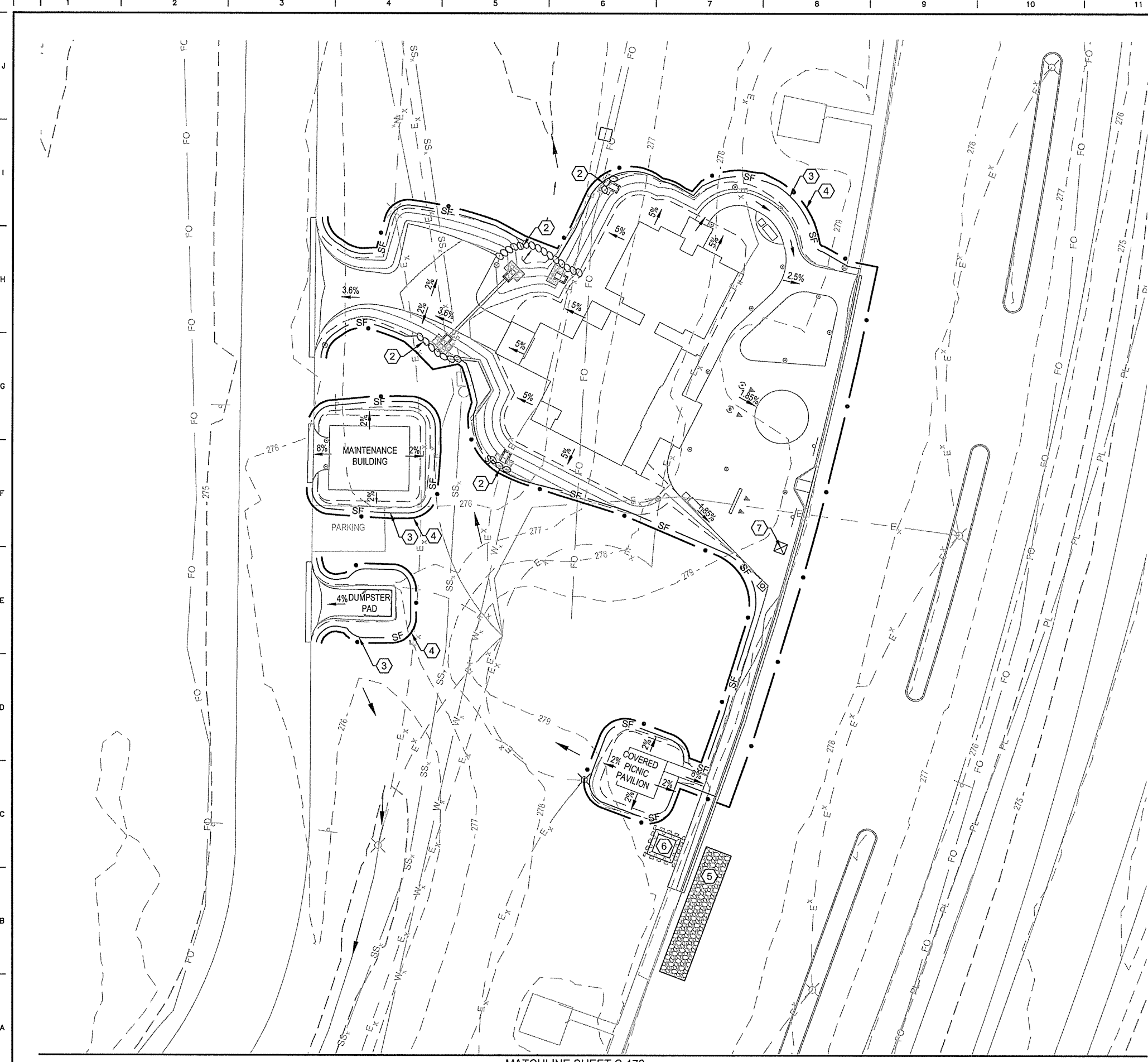
ROOF DRAIN - COLLECTION
 PIPING PLAN

REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 REMY TAYLOR

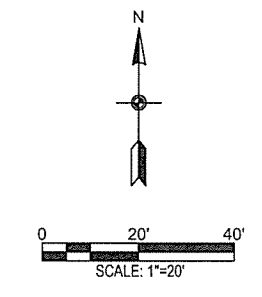
DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-161
REV	
16 OF 114	

File name: W:\PDR\highway\dept\313841-ahhd-welcome-centers\20_DESIGN\MO_CADD\anc_rdr\er\er\ER-C-171.dwg
 Date: September 22, 2015 - 3:59pm
 User: rmlfnp



MATCHLINE SHEET C-172



EROSION CONTROL NOTES:

1. THE LOCATIONS OF EROSION CONTROL DEVICES SHOWN ARE SCHEMATIC.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING, MAINTAINING, AND REPAIRING ALL EROSION CONTROL DEVICES, AS DIRECTED BY THE ENGINEER, UNTIL THE SITE IS STABILIZED.
3. ALL TREES OUTSIDE THE LIMITS OF GRADING SHALL BE PROTECTED FROM ALL ACTIVITIES DURING CONSTRUCTION. NO EQUIPMENT SHALL BE DRIVEN, OPERATED, PARKED, SERVICED, OR MAINTAINED INSIDE THE DRIPLINE OF THESE TREES.
4. SILT FENCES AND OTHER EROSION CONTROL DEVICES SHALL BE INSPECTED BY THE ENGINEER IMMEDIATELY AFTER EACH RAINFALL OF 0.5" AND AT LEAST DAILY DURING PROLONGED RAINFALL. CONTRACTOR SHALL MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
5. CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL EROSION CONTROL DEVICES AND BASINS AS DIRECTED BY THE ENGINEER.
6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE EROSION DEVICE IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM WITH THE FINISH GRADE AND SEEDED.
7. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED FOR EROSION CONTROL NO LATER THAN 14 DAYS FOLLOWING THE LAST CONSTRUCTION ON THE AREA, UNLESS CONSTRUCTION IS TO RESUME ON THE AREA WITHIN 21 DAYS OF THE LAST CONSTRUCTION ON THE AREA.
8. ALL AREAS RECEIVING SOD OR SEEDING AND MULCHING, SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED, AS DETERMINED BY THE ENGINEER.
9. EROSION CONTROL DEVICES MAY BE REMOVED AFTER THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
10. STONE CONSTRUCTION EXIT STONE SHALL BE PERIODICALLY DRESSED AS NEEDED, SO THAT ALL DIRT IS REMOVED FROM VEHICLE TIRES BEFORE THEY ENTER THE ROADWAY. TRACKING OF MUD, DIRT, CONCRETE, OIL, OR ASPHALT ONTO THE ROADWAY IS PROHIBITED. ANY AFORESAID DEBRIS TRACKED ONTO THE ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. NOTE: CLASS 7 AGGREGATE BASE WILL NOT MEET THE SPECIFICATIONS FOR THE CONSTRUCTION EXIT MAT.

KEYNOTES:

- ① INSTALL DITCH CHECK DAM, AHTD TEC-1. DETAIL 3/C-506.
- ② INSTALL EROSION CONTROL SAND FILTER BAGS. DETAIL 4/C-506.
- ③ INSTALL SILT FENCE (E-11) AHTD TEC-1 DETAIL 1/C-506.
- ④ LIMITS OF DISTURBANCE 0.47 ACRES
- ⑤ INSTALL TEMPORARY CONSTRUCTION EXIT DETAIL 2/C-506.
- ⑥ INSTALL CONCRETE WASHOUT DETAIL 1/C-507.
- ⑦ TEMPORARY SANITARY FACILITY

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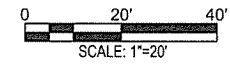
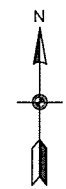
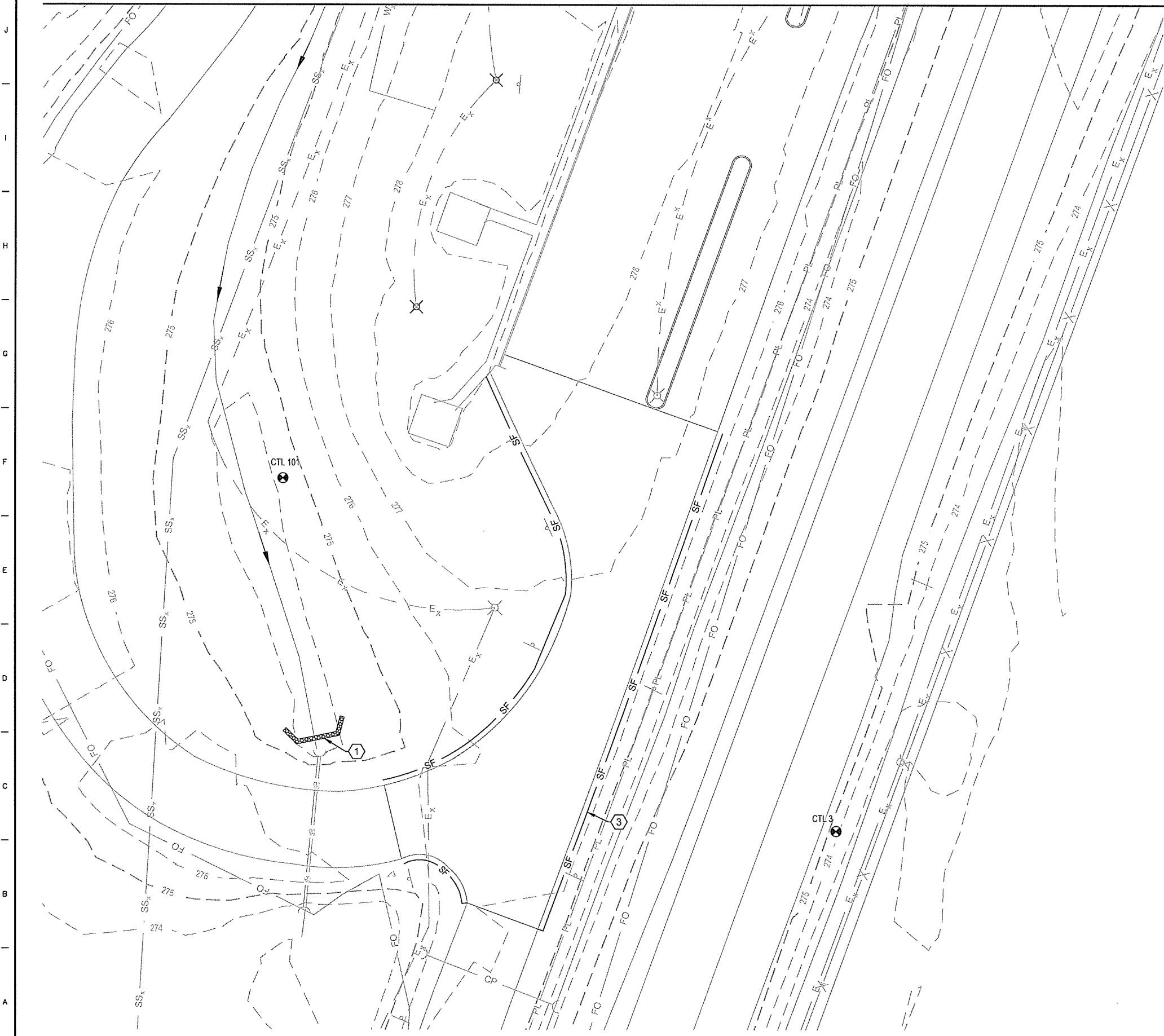
ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

EROSION CONTROL PLAN
 SHEET 1 OF 2

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-171
REV	

MATCHLINE SHEET C-171



EROSION CONTROL NOTES:

1. THE LOCATIONS OF EROSION CONTROL DEVICES SHOWN ARE SCHEMATIC.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING, MAINTAINING, AND REPAIRING ALL EROSION CONTROL DEVICES, AS DIRECTED BY THE ENGINEER, UNTIL THE SITE IS STABILIZED.
3. ALL TREES OUTSIDE THE LIMITS OF GRADING SHALL BE PROTECTED FROM ALL ACTIVITIES DURING CONSTRUCTION. NO EQUIPMENT SHALL BE DRIVEN, OPERATED, PARKED, SERVICED, OR MAINTAINED INSIDE THE DRIPLINE OF THESE TREES.
4. SILT FENCES AND OTHER EROSION CONTROL DEVICES SHALL BE INSPECTED BY THE ENGINEER IMMEDIATELY AFTER EACH RAINFALL OF 0.5" AND AT LEAST DAILY DURING PROLONGED RAINFALL. CONTRACTOR SHALL MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
5. CONTRACTOR SHALL REMOVE SEDIMENT FROM ALL EROSION CONTROL DEVICES AND BASINS AS DIRECTED BY THE ENGINEER.
6. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE EROSION DEVICE IS NO LONGER REQUIRED, SHALL BE DRESSED TO CONFORM WITH THE FINISH GRADE AND SEEDED.
7. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED FOR EROSION CONTROL NO LATER THAN 14 DAYS FOLLOWING THE LAST CONSTRUCTION ON THE AREA, UNLESS CONSTRUCTION IS TO RESUME ON THE AREA WITHIN 21 DAYS OF THE LAST CONSTRUCTION ON THE AREA.
8. ALL AREAS RECEIVING SOD OR SEEDING AND MULCHING, SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED, AS DETERMINED BY THE ENGINEER.
9. EROSION CONTROL DEVICES MAY BE REMOVED AFTER THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
10. STONE CONSTRUCTION EXIT STONE SHALL BE PERIODICALLY DRESSED AS NEEDED, SO THAT ALL DIRT IS REMOVED FROM VEHICLE TIRES BEFORE THEY ENTER THE ROADWAY. TRACKING OF MUD, DIRT, CONCRETE, OIL, OR ASPHALT ONTO THE ROADWAY IS PROHIBITED. ANY AFORESAID DEBRIS TRACKED ONTO THE ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. NOTE: CLASS 7 AGGREGATE BASE WILL NOT MEET THE SPECIFICATIONS FOR THE CONSTRUCTION EXIT MAT.

KEYNOTES:

- ① INSTALL DITCH CHECK DAM, AHTD TEC-1. DETAIL 3/C-506.
- ③ INSTALL SILT FENCE (E-11) AHTD TEC-1 DETAIL 1/C-506.

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
 RED RIVER

STATE OF ARIZONA
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 RAMSEY TAYLOR

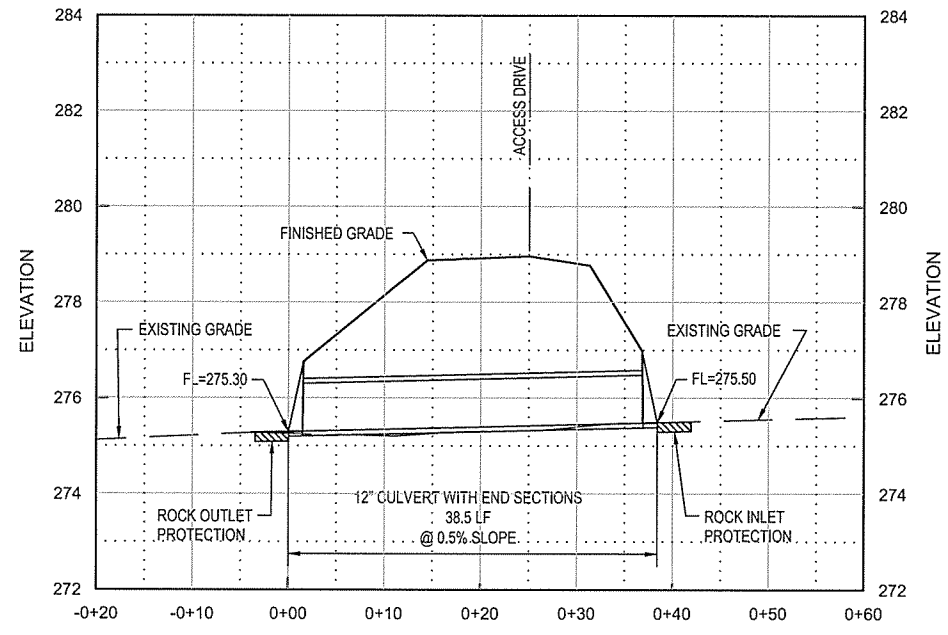
EROSION CONTROL PLAN
 SHEET 2 OF 2

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-172
REV	
18 OF 114	

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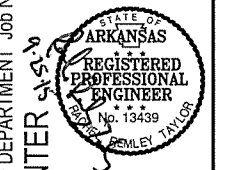


(A) STORM DRAIN PROFILE
 SCALE: 1" = 10' HORZ.
 1" = 2' VERT.



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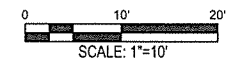
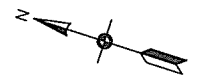
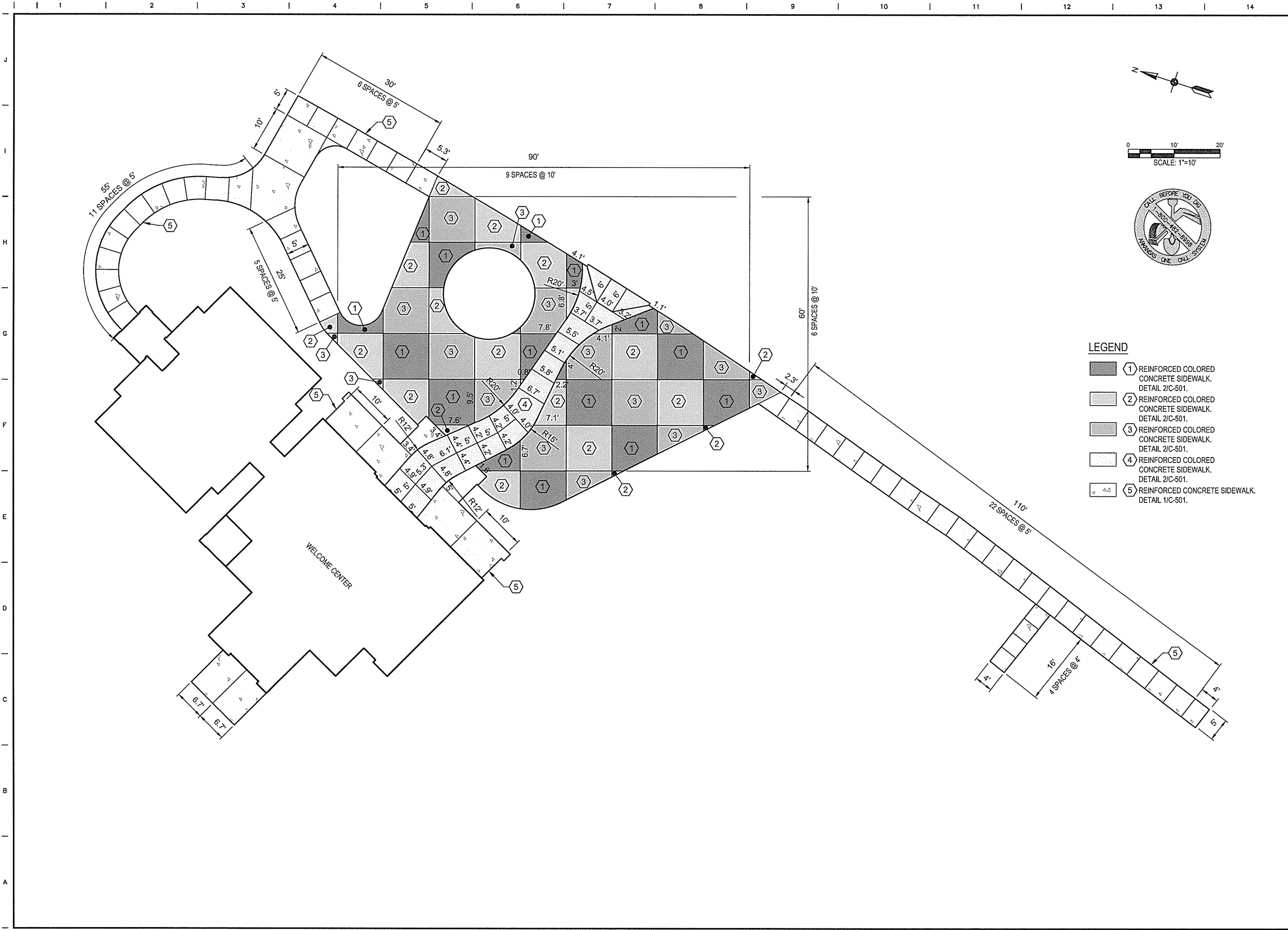
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER

PROFILES

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-201
REV	
19 OF 114	

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 Date: 9/25/2015 2:20:33pm



LEGEND

- 1 REINFORCED COLORED CONCRETE SIDEWALK. DETAIL 2/C-501.
- 2 REINFORCED COLORED CONCRETE SIDEWALK. DETAIL 2/C-501.
- 3 REINFORCED COLORED CONCRETE SIDEWALK. DETAIL 2/C-501.
- 4 REINFORCED COLORED CONCRETE SIDEWALK. DETAIL 2/C-501.
- 5 REINFORCED CONCRETE SIDEWALK. DETAIL 1/C-501.

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
 RED RIVER

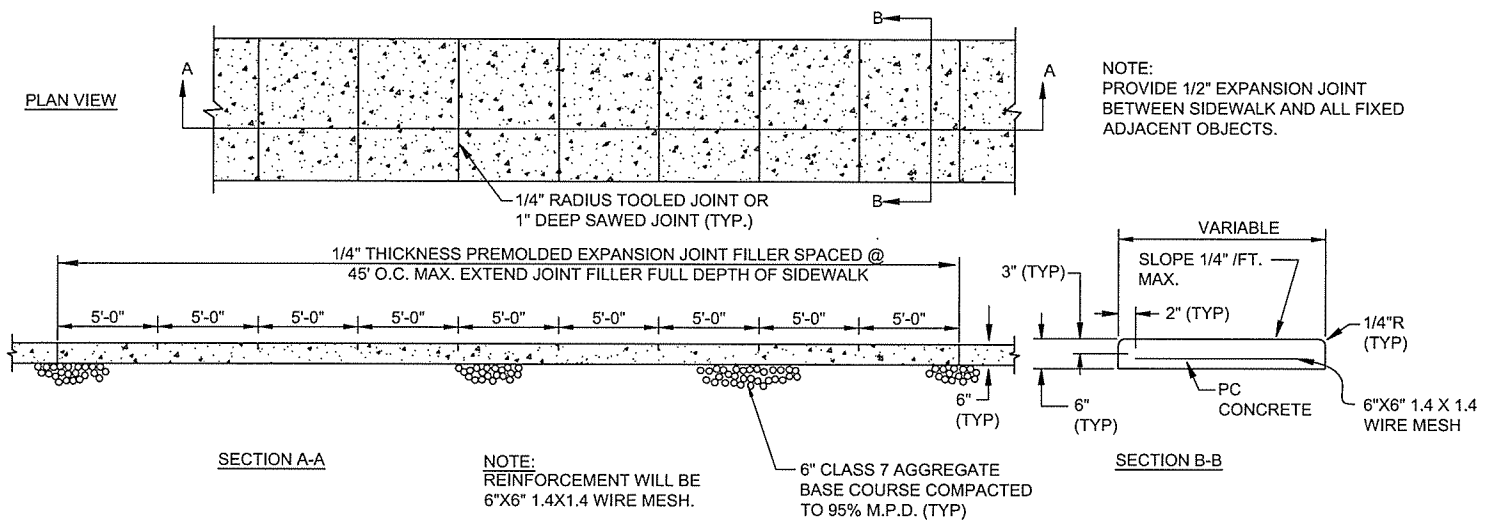
STATE OF ARIZONA
 REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 REMLEY TAYLOR

ENLARGED CONCRETE PAVEMENT
 JOINT LAYOUT PLAN

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

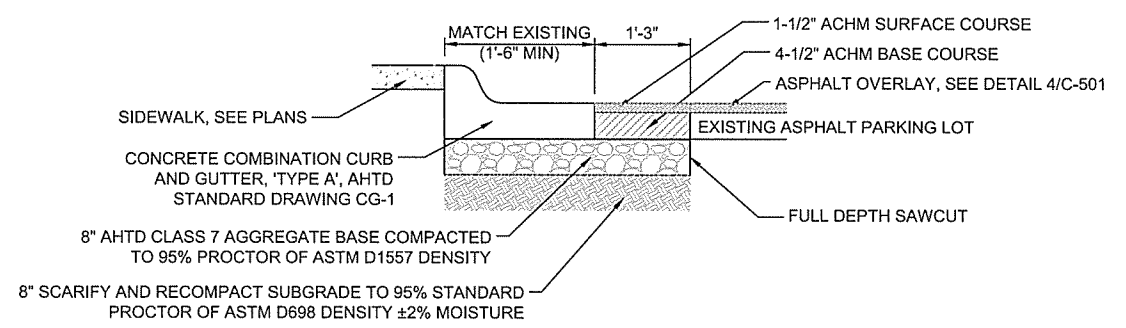
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SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-401
REV	
20 OF 114	

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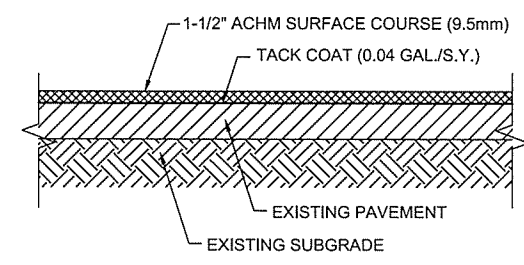


- NOTES:**
- EXPANSION MATERIAL SHALL BE REQUIRED AT 45' MAXIMUM SPACING.
 - THE SIDEWALK SHALL HAVE SAWED TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS. THE CONTRACTION JOINT SHALL BE 1/4 DEPTH OF SIDEWALK THICKNESS AND 1/4" WIDE TOOLED JOINTS SHALL BE A MINIMUM OF 1" DEPTH.
 - SIDEWALK INTERSECTIONS MAKE SQUARE CONTRACTION JOINTS A MINIMUM OF 5'x5' AND A MAXIMUM OF 12'x12'.
 - ALL CONTRACTION JOINTS SHALL BE SEALED WITH SILICONE SEALER (TYPE 3).
 - ALL EXPANSION JOINTS SHALL HAVE 1/2" DEPTH SILICONE SEALER COVERING JOINT.
 - SIDEWALK MAY OR MAY NOT HAVE ADJACENT CURB AND GUTTER.
 - SIDEWALK TO BE MINIMUM 6" CONCRETE THROUGH ALL DRIVEWAYS.
 - SIDEWALKS SHALL HAVE LIGHT BROOM FINISH (CLASS 6).

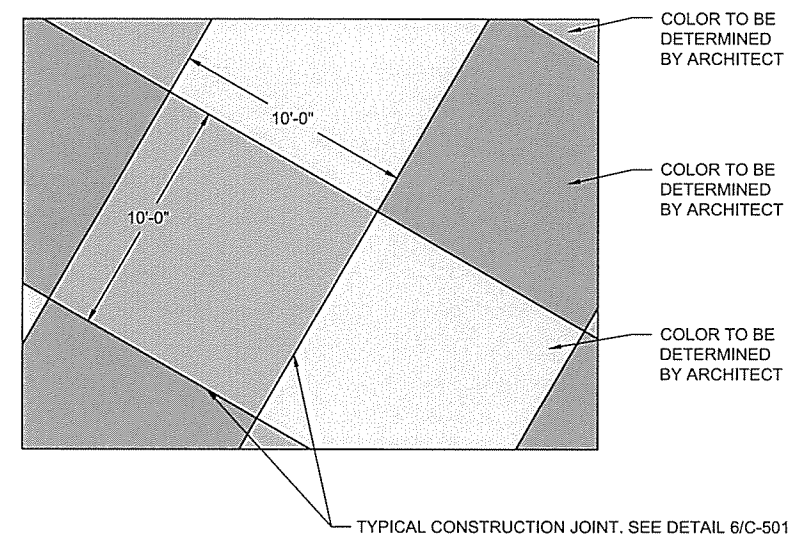
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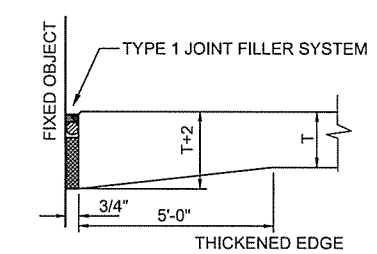
3 CURB AND GUTTER WITH ASPHALT PATCH
 NOT TO SCALE



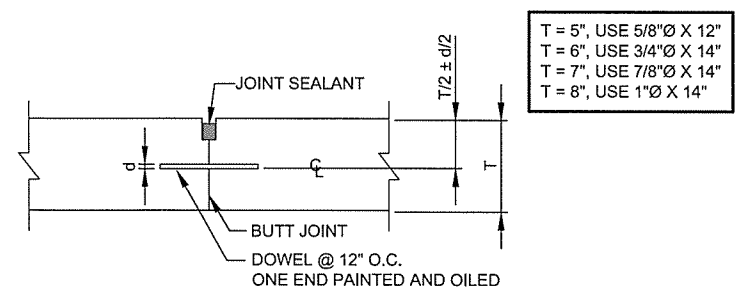
4 ASPHALT OVERLAY SECTION
 NOT TO SCALE



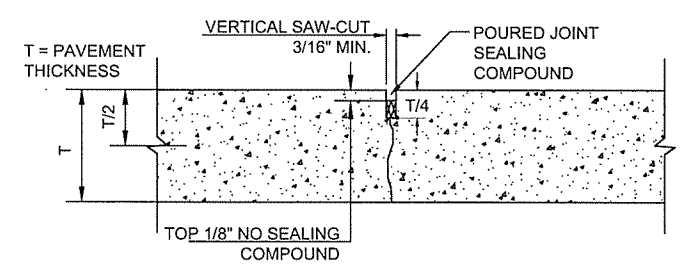
2 REINFORCED COLORED CONCRETE DETAIL
 NOT TO SCALE



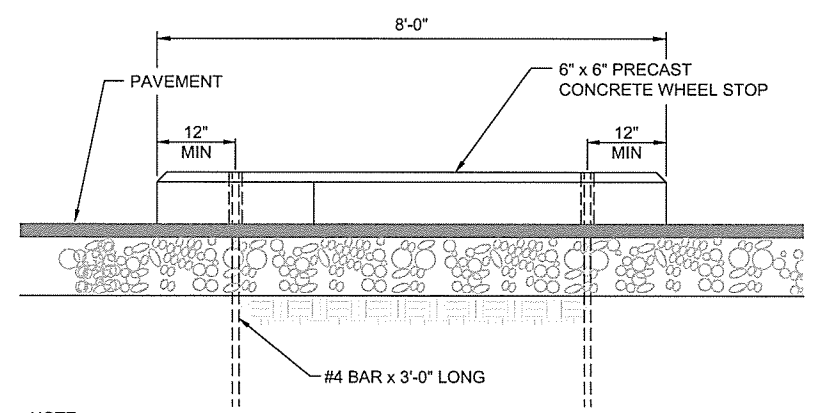
5 EXPANSION JOINT AT FIXED OBJECT
 NOT TO SCALE



6 DOWELED CONSTRUCTION JOINT DETAIL
 NOT TO SCALE



7 CONTRACTION JOINT DETAILS
 NOT TO SCALE



8 WHEEL STOP DETAIL
 NOT TO SCALE

NOTE:
 EXACT CONFORMANCE TO THIS DETAIL WILL NOT BE REQUIRED WHEN LOCAL MANUFACTURER'S STANDARD PRODUCTS ARE OF APPROXIMATE SAME DIMENSIONS AND STRUCTURAL STRENGTH.

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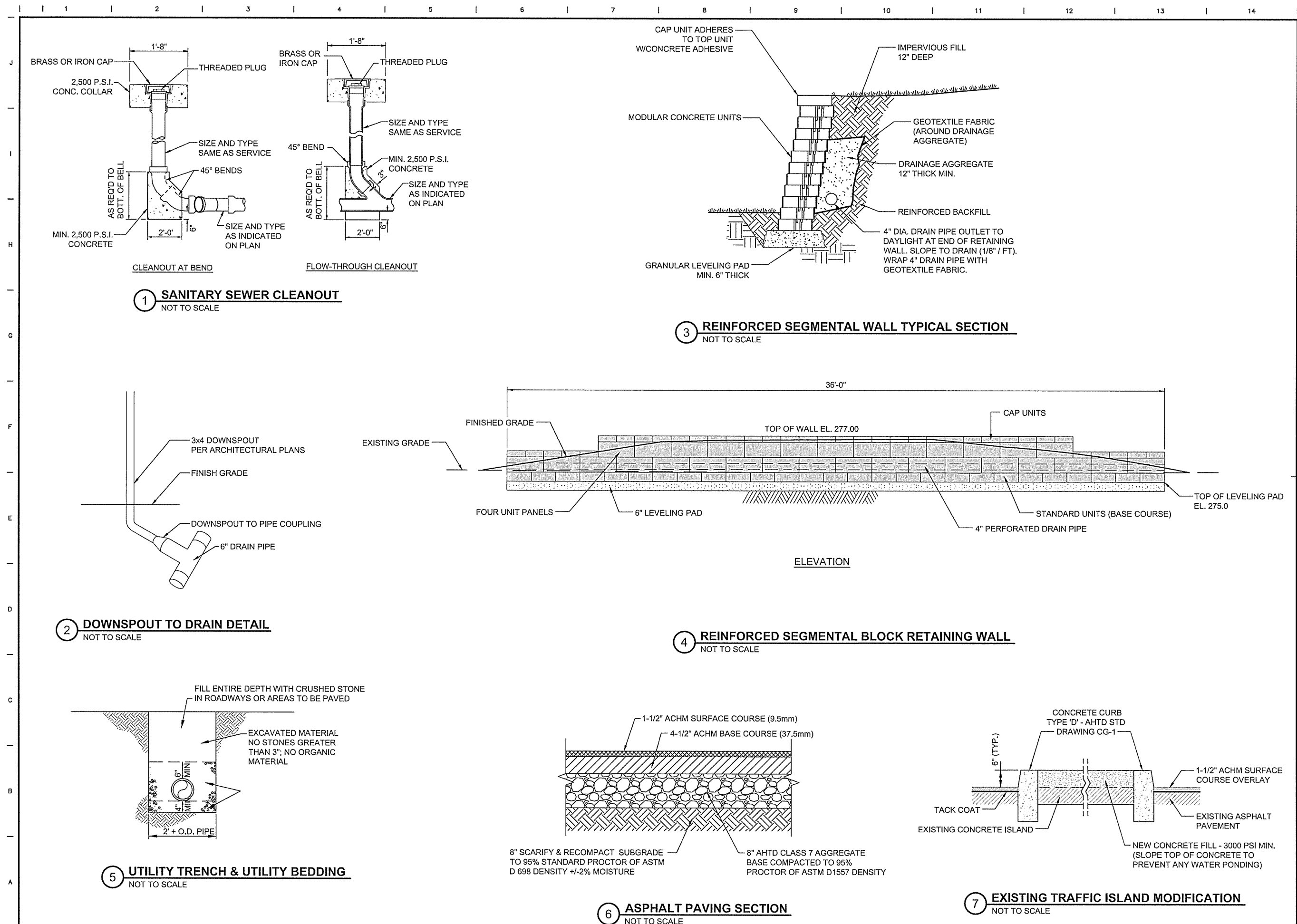
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER
 CIVIL DETAILS SHEET 1 OF 8

LEIDOS ENGINEERING, LLC No. 510
 REGISTERED PROFESSIONAL ENGINEER No. 13439
 REMLEY TAYLOR

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-501
REV	21 OF 114

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 Date: September 22, 2015 - 3:59pm
 User: mullinsp



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0	9/25/2015				

ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARIZONA WELCOME CENTER
 RED RIVER

CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARIZONA

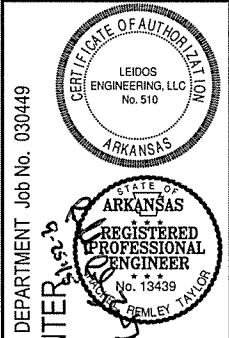
REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 TERRY REMLEY TAYLOR

CIVIL DETAILS SHEET 2 OF 8

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-502
REV	22 OF 114

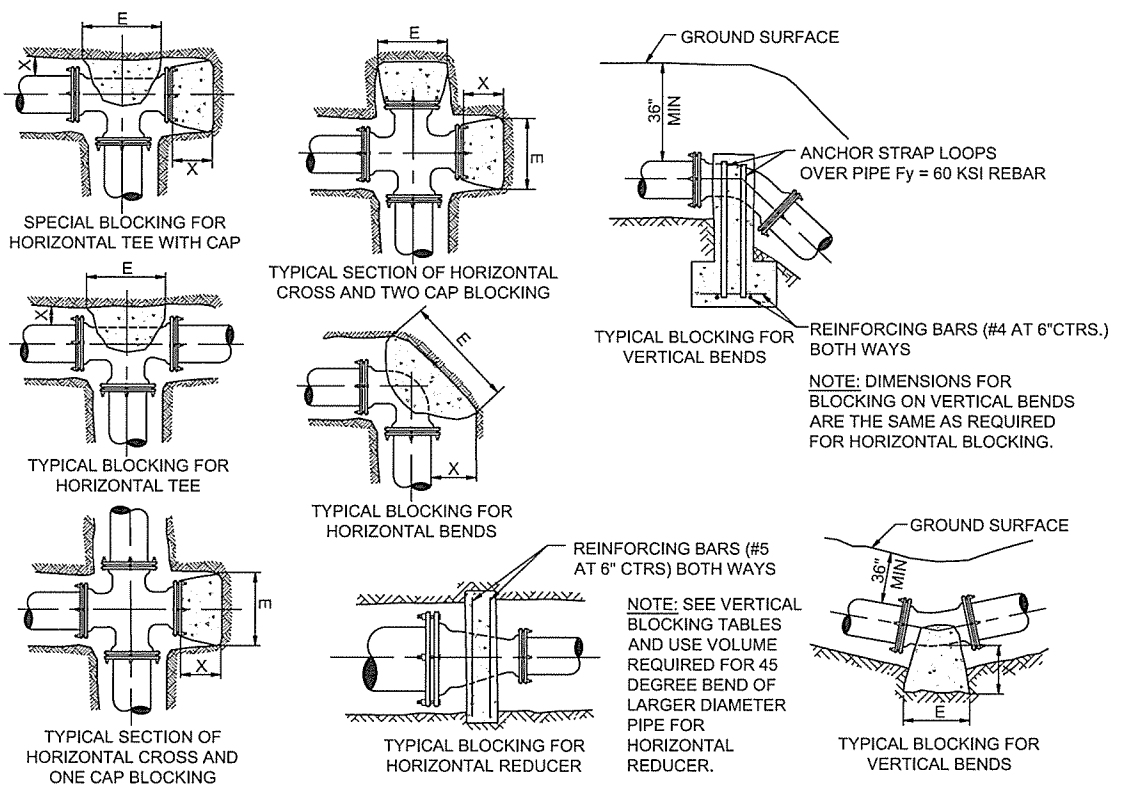
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				DESCRIPTION OF REVISION OR ISSUE		



ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 CIVIL DETAILS SHEET 3 OF 8

DESIGNED BY	JEG
DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-503
REV	23 OF 114



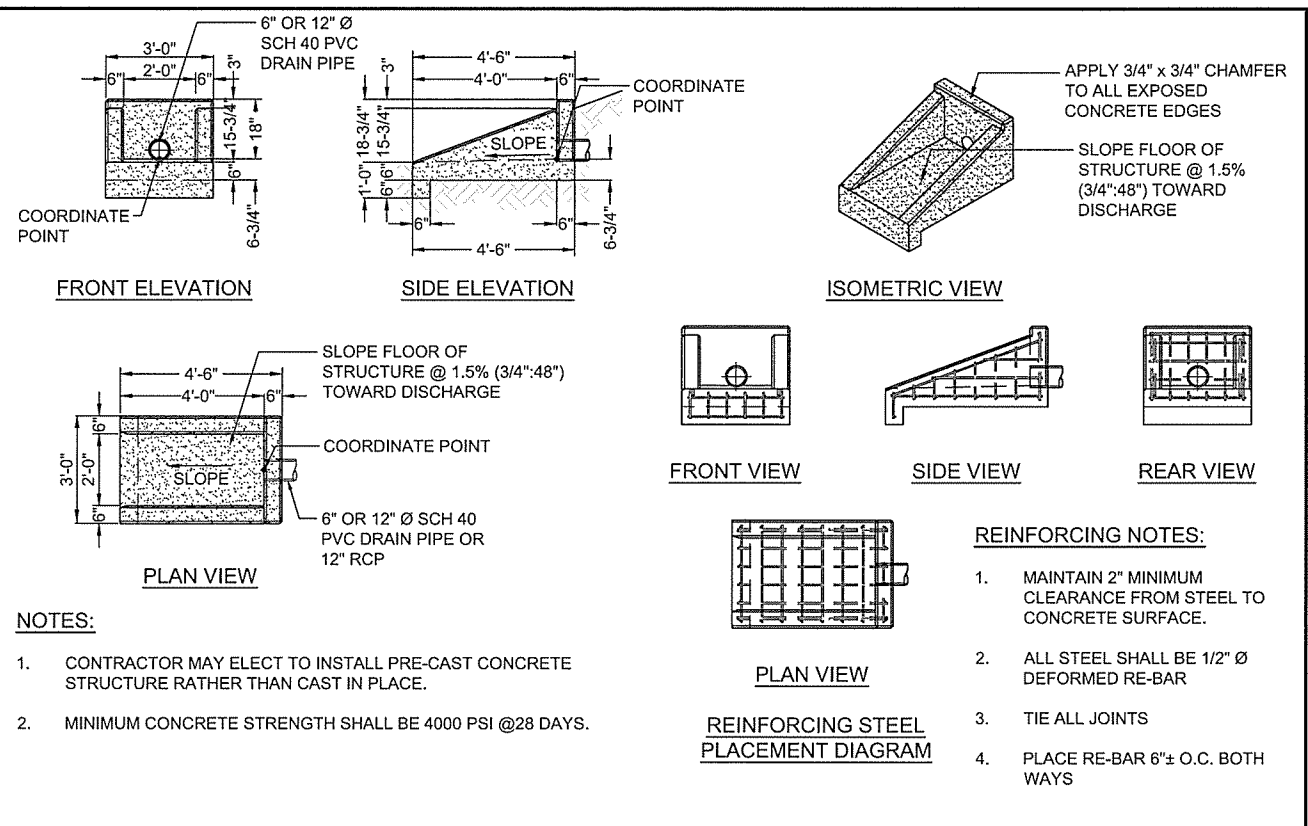
PIPE SIZE inches	11.25 DEGREE BEND			22.5 DEGREE BEND			45 DEGREE BEND			90 DEGREE BEND		
	ANCHOR STRAPS NO.	SIZE	CONCRETE VOLUME cu.yd.	ANCHOR STRAPS NO.	SIZE	CONCRETE VOLUME cu.yd.	ANCHOR STRAPS NO.	SIZE	CONCRETE VOLUME cu.yd.	ANCHOR STRAPS NO.	SIZE	CONCRETE VOLUME cu.yd.
2.0	1	#4	0.04	1	#4	0.08	1	#4	0.16	1	#4	0.30
3.0	1	#4	0.09	1	#4	0.18	1	#4	0.36	1	#4	0.67
4.0	1	#4	0.16	1	#4	0.33	1	#4	0.64	1	#4	1.19
6.0	1	#4	0.37	1	#4	0.74	1	#4	1.44	1	#4	2.67
8.0	1	#4	0.66	1	#4	1.31	1	#4	2.57	2	#4	4.74
10.0	1	#4	1.03	1	#4	2.04	2	#4	4.01	2	#4	7.40
12.0	1	#4	1.48	1	#4	2.94	2	#4	5.77	2	#5	10.65
14.0	1	#4	2.01	2	#4	4.01	2	#4	7.86	2	#6	14.52
16.0	1	#4	2.63	2	#4	5.23	2	#5	10.26	3	#5	18.95

MINIMUM VERTICAL THRUST BLOCKING REQUIREMENTS

PIPE SIZE inches	"X" ft.	11.25 DEGREE BEND			22.5 DEGREE BEND			45 DEGREE BEND			90 DEGREE BEND			TEE OR CAP		
		"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.	"E" ft.	BEARING AREA sq.ft.	CONCRETE VOLUME cu.yd.
2"	0.5	0.26	0.07	0.01	0.36	0.13	0.01	0.50	0.26	0.01	0.69	0.48	0.01	0.58	0.34	0.01
3"	0.5	0.39	0.15	0.01	0.55	0.30	0.01	0.76	0.58	0.01	1.04	1.08	0.02	0.87	0.76	0.02
4"	1.0	0.52	0.27	0.01	0.73	0.53	0.02	1.02	1.04	0.04	1.39	1.92	0.07	1.17	1.36	0.05
6"	1.5	0.77	0.60	0.03	1.09	1.19	0.07	1.53	2.34	0.13	2.08	4.32	0.24	1.75	3.06	0.17
8"	1.5	1.03	1.06	0.06	1.46	2.12	0.12	2.04	4.15	0.23	2.77	7.68	0.43	2.33	5.43	0.30
10"	1.5	1.29	1.66	0.09	1.82	3.31	0.18	2.55	6.49	0.36	3.46	11.99	0.67	2.91	8.48	0.47
12"	1.5	1.55	2.39	0.13	2.18	4.76	0.26	3.06	9.34	0.52	4.15	17.26	0.96	3.49	12.20	0.68
14"	2.0	1.81	3.26	0.24	2.55	6.49	0.48	3.57	12.73	0.94	4.85	23.52	1.74	4.08	16.63	1.23
16"	2.0	2.06	4.26	0.32	2.91	8.47	0.63	4.08	16.61	1.23	5.54	30.70	2.27	4.66	21.71	1.61

MINIMUM HORIZONTAL THRUST BLOCKING REQUIREMENTS

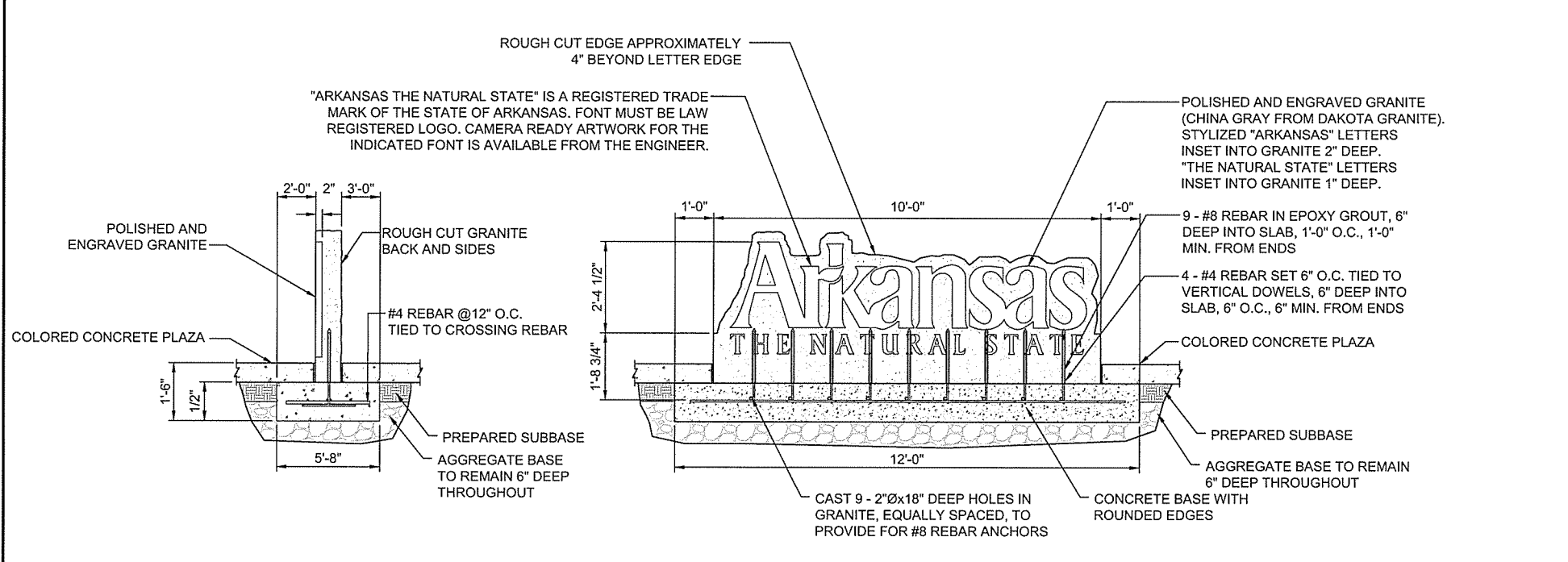
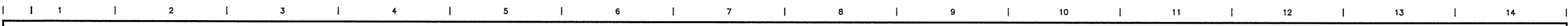
2 THRUST BLOCK DETAILS
 NOT TO SCALE



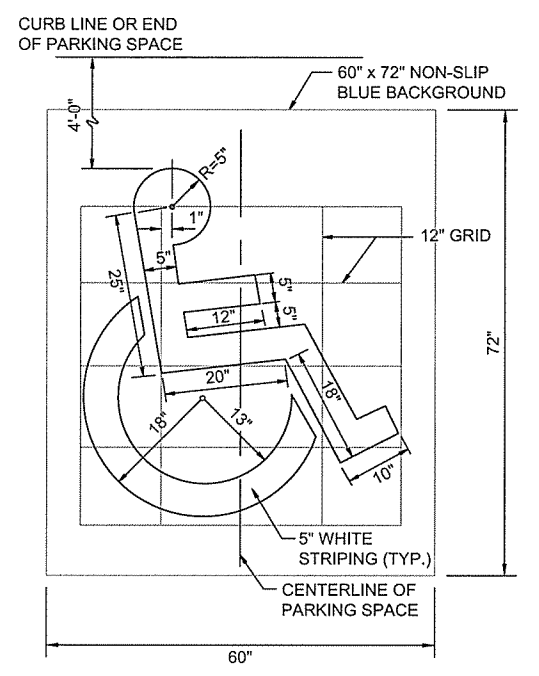
- NOTES:**
- BEARING AREA FOR HORIZONTAL THRUST BLOCKING IS BASED ON 150 PSI STATIC PRESSURE PLUS 120 PSI WATER HAMMER PRESSURE AND 2500 PSF SOIL BEARING VALUE.
 - CONCRETE VOLUME FOR VERTICAL THRUST BLOCKING IS BASED ON 150 PSI STATIC PRESSURE PLUS 120 PSI WATER HAMMER PRESSURE AND 150 LB.WT.PER CUBIC FOOT OF CONCRETE.
 - ALL CONCRETE IS 2100 PSI.
 - USE POLYETHYLENE WRAP OR EQUAL BETWEEN CONCRETE AND BEND.
 - ALL BLOCKING TO BE AGAINST UNDISTURBED HAND DUG SOIL.
 - DIMENSIONS MAY BE VARIED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS DIRECTED BY ENGINEER. THE VOLUME OF CONCRETE BLOCKING SHALL NOT BE LESS THAN SHOWN HERE.
 - ALL VALVES SHALL BE A MINIMUM OF 5' FROM BLOCKED FITTINGS.
 - DO NOT COVER JOINTS OF FITTING WITH CONCRETE.

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 User: mullins

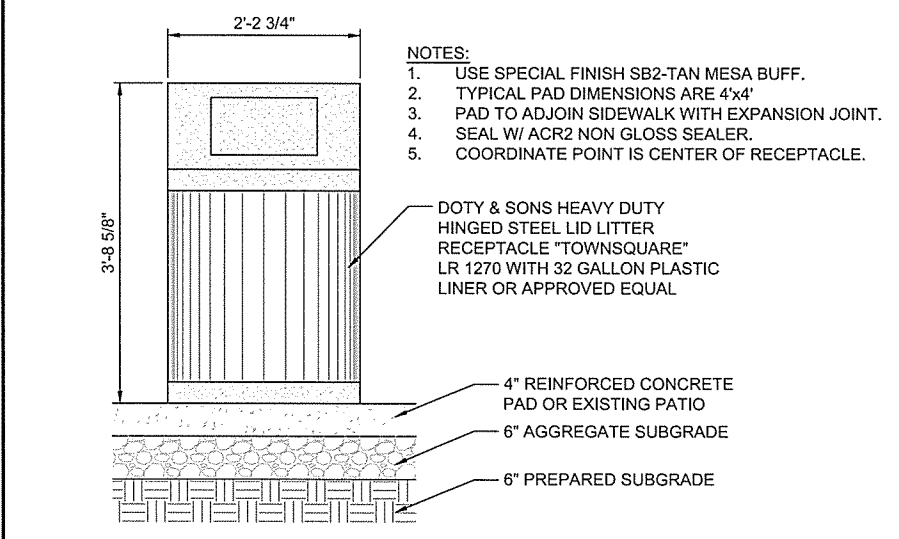
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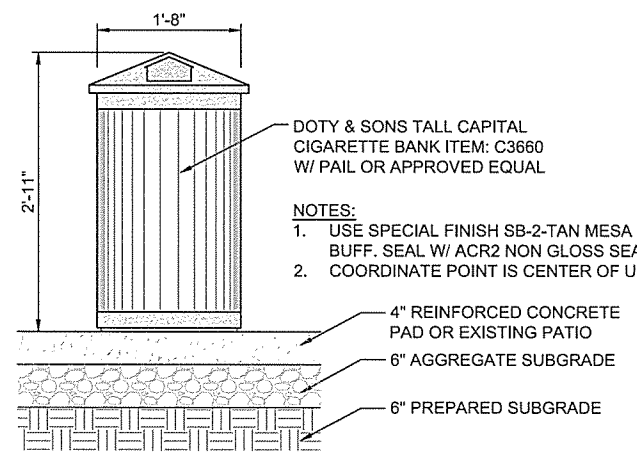
1 GRANITE SIGN DETAIL
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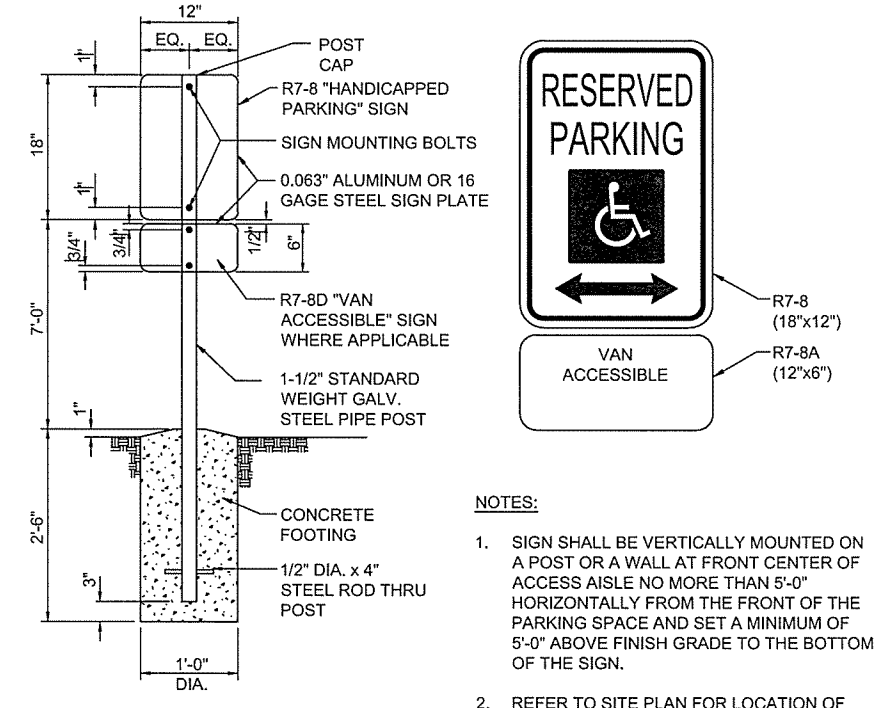
2 HANDICAP PARKING SYMBOL
NOT TO SCALE



3 LITTER RECEPTACLE DETAILS
NOT TO SCALE



4 SMOKE URN DETAIL
NOT TO SCALE



5 HANDICAP PARKING SIGN DETAIL
NOT TO SCALE

- NOTES:**
1. SIGN SHALL BE VERTICALLY MOUNTED ON A POST OR A WALL AT FRONT CENTER OF ACCESS AISLE NO MORE THAN 5'-0" HORIZONTALLY FROM THE FRONT OF THE PARKING SPACE AND SET A MINIMUM OF 5'-0" ABOVE FINISH GRADE TO THE BOTTOM OF THE SIGN.
 2. REFER TO SITE PLAN FOR LOCATION OF RESERVED PARKING SPACES.
 3. COLORS:
TEXT, ARROWS, AND BORDER - GREEN
WHITE SYMBOL ON BLUE BACKGROUND
SIGN BACKGROUND - WHITE

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
RED RIVER

CIVIL DETAILS SHEET 4 OF 8

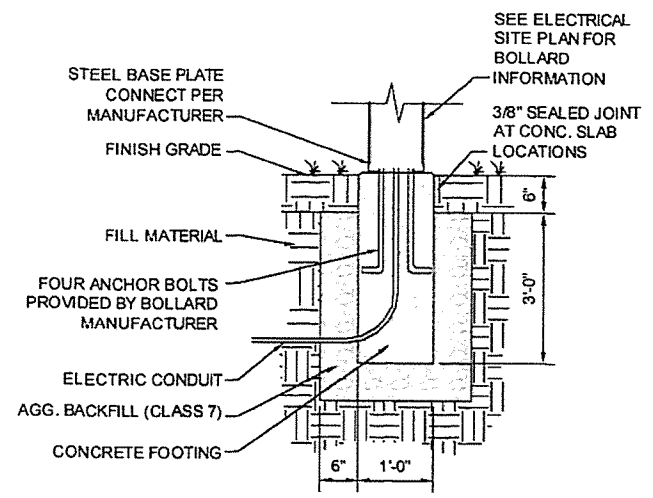
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DRAWN BY PMM
CHECKED BY RRT
APPROVED BY RRT

DATE 9/25/2015
SCALE AS SHOWN
LEIDOS PROJECT NUMBER 313841

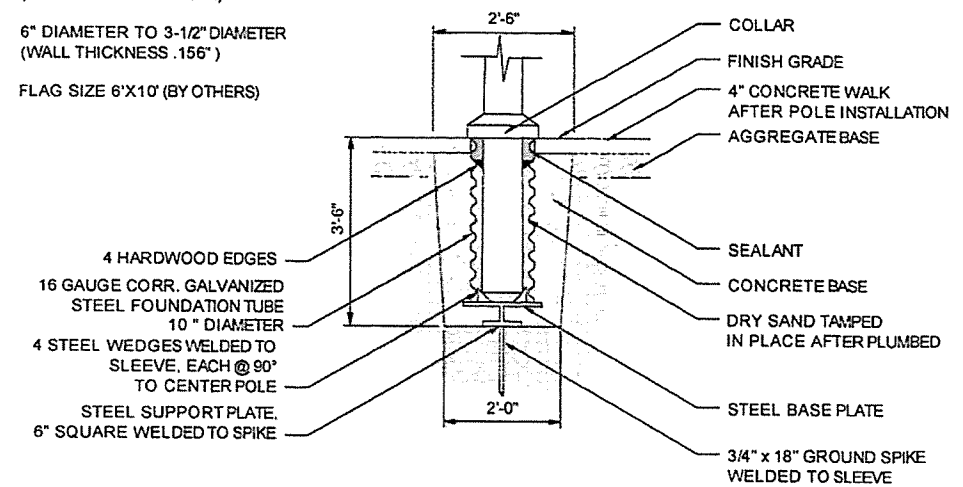
SHEET C-504 | REV
24 OF 114

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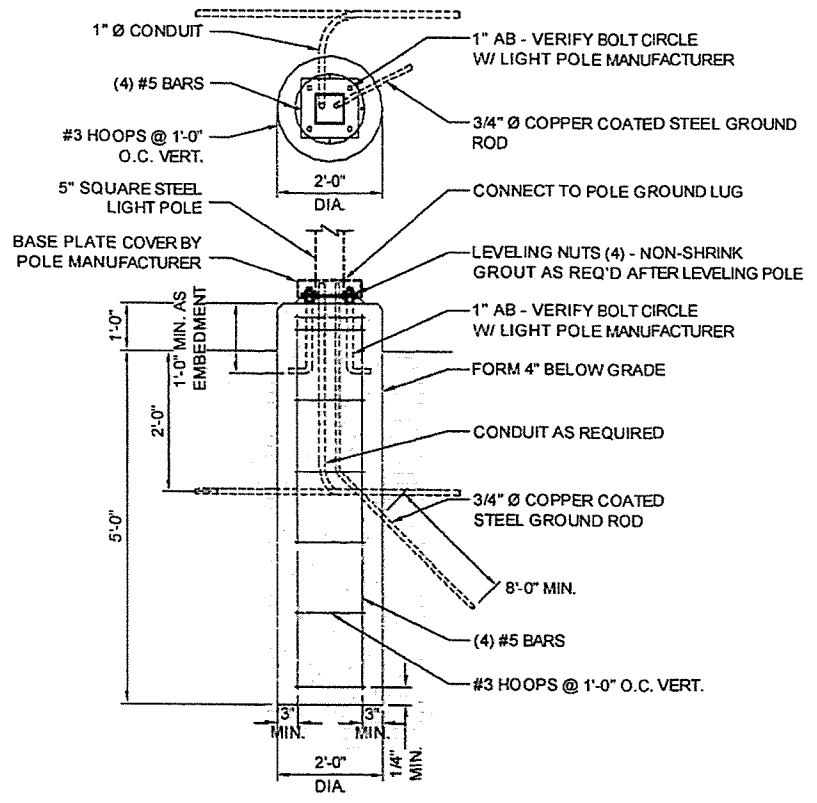
FLAGPOLE NOTES:
 CONCORD 'INDEPENDENCE' #30060156 CONCEALED HALYARD SYSTEM W/STAINLESS STEEL COMPONENT OR APPROVED EQUAL
 30'-0" TALL POLE, STANDARD FINISH (33'-0" OVERALL LENGTH)
 6" DIAMETER TO 3'-1/2" DIAMETER (WALL THICKNESS .156")
 FLAG SIZE 6'X10' (BY OTHERS)



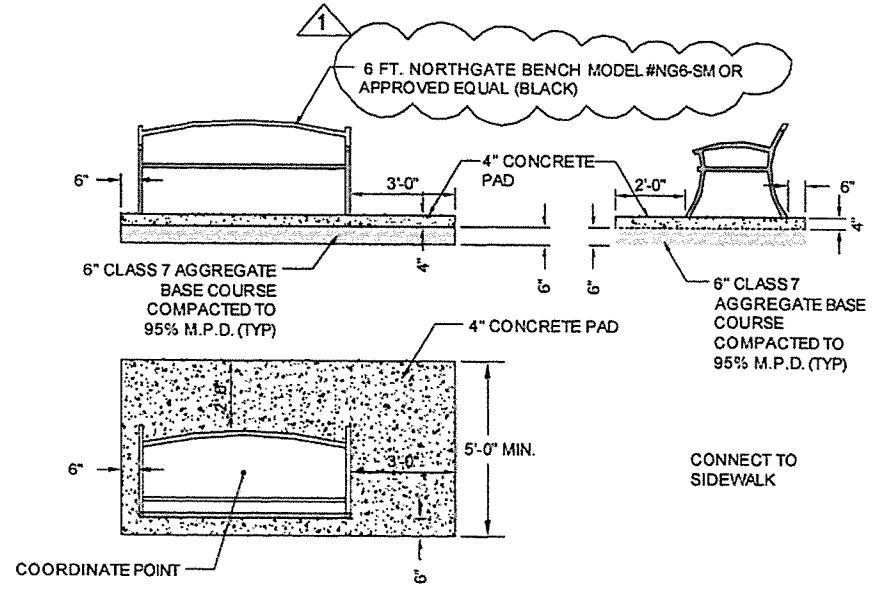
1 LIGHTED BOLLARD BASE DETAIL
 NOT TO SCALE



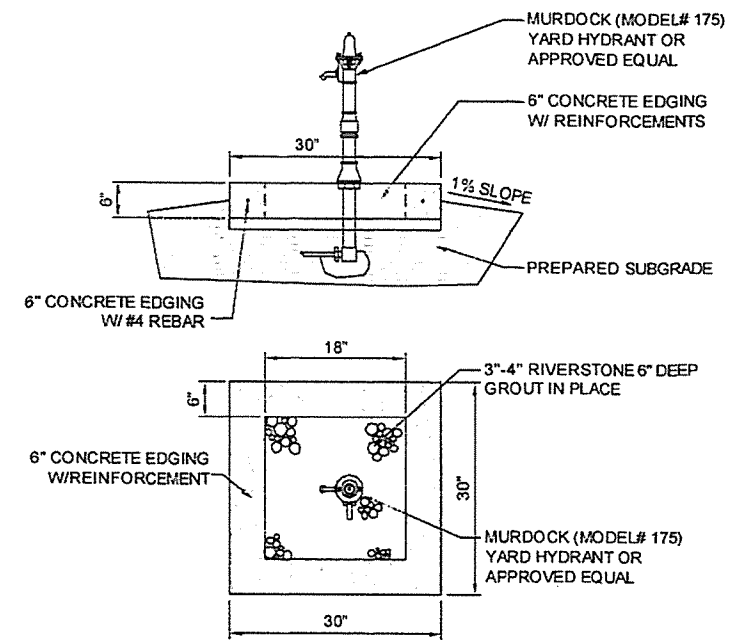
2 FLAGPOLE DETAIL
 NOT TO SCALE



3 12' PEDESTRIAN LIGHT BASE DETAIL
 NOT TO SCALE



4 BENCH DETAIL
 NOT TO SCALE



5 YARD HYDRANT SPLASHPAD DETAIL
 NOT TO SCALE

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ARIZONA DEPARTMENT OF TRANSPORTATION Job No. 030449

ARIZONA WELCOME CENTER

RED RIVER

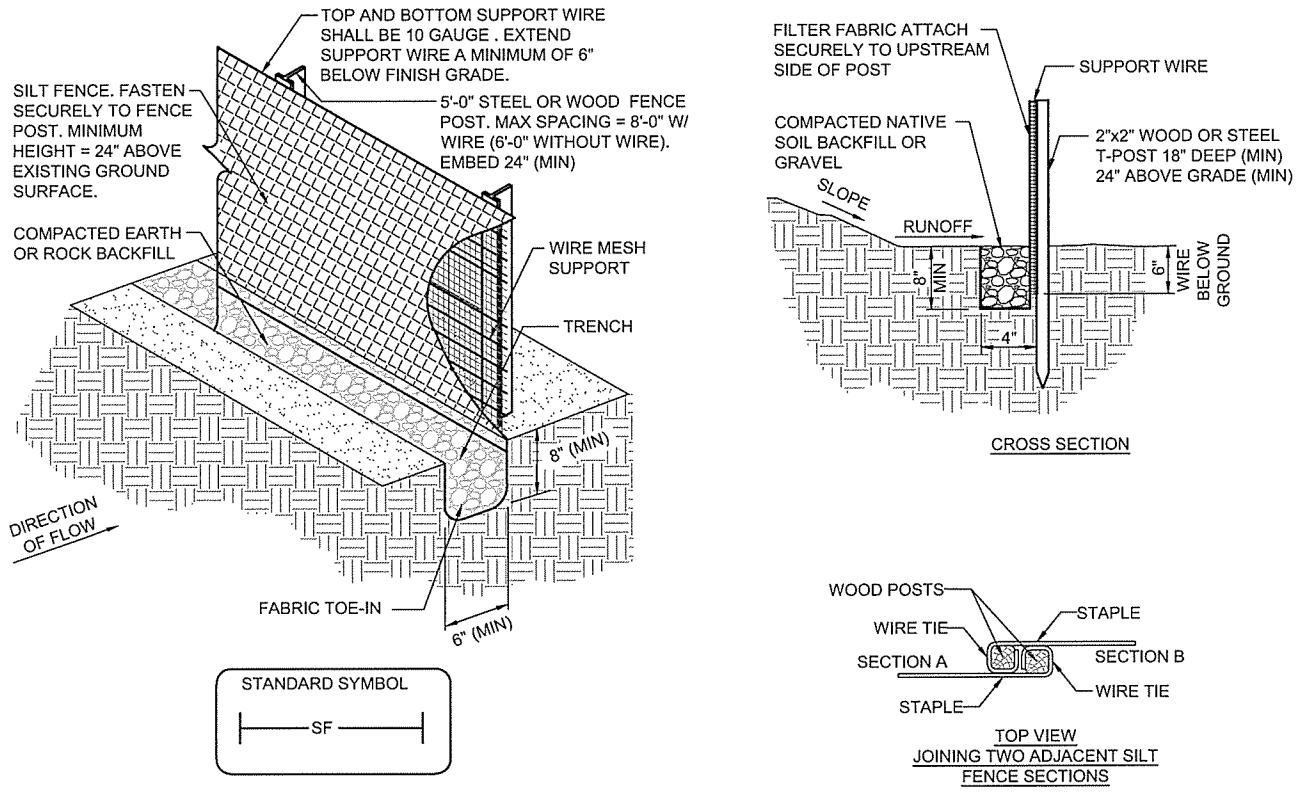
CIVIL DETAILS SHEET 5 OF 8

REGISTERED PROFESSIONAL ENGINEER
 STATE OF ARIZONA
 15429
 FAYE TAYLOR

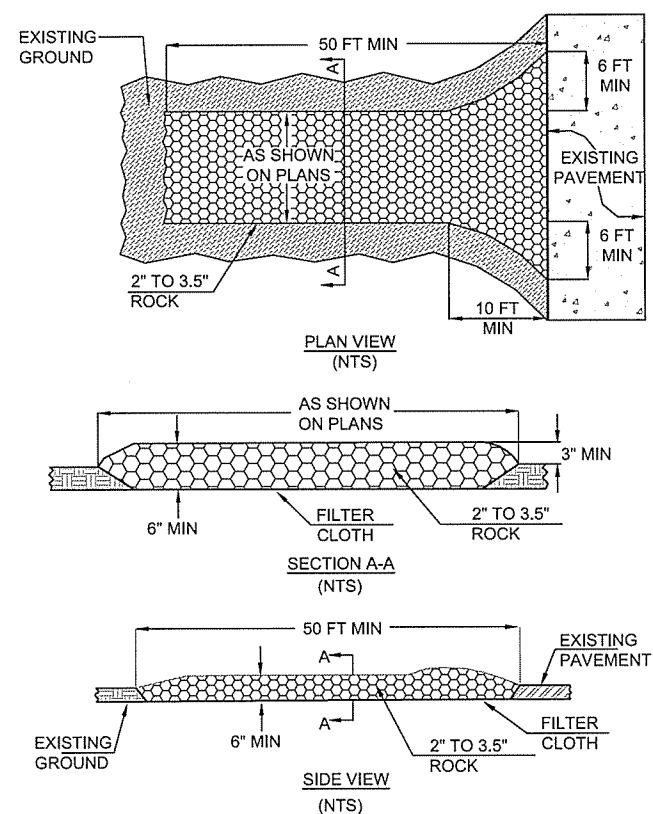
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DRAWN BY	PMM
CHECKED BY	RRT
APPROVED BY	RRT

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-505
REV	25 OF 14

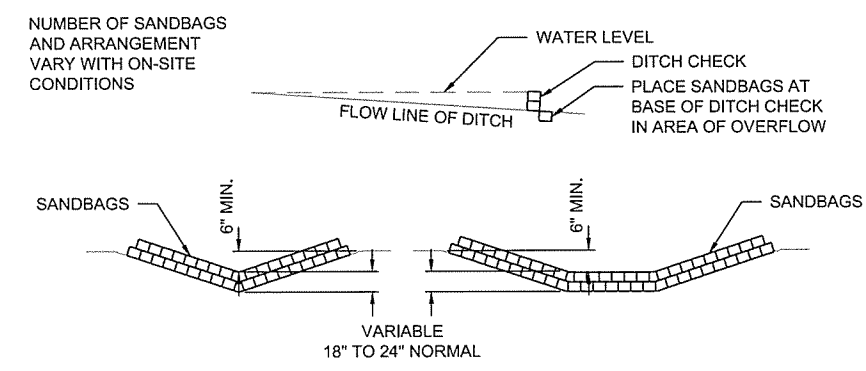
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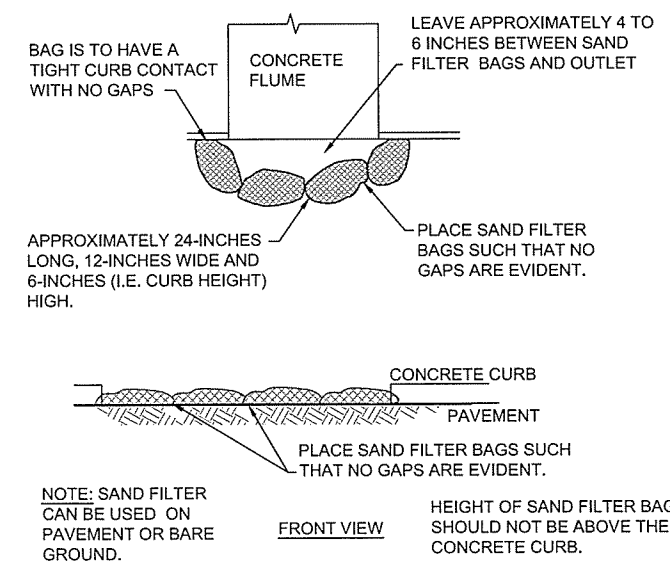
1 SEDIMENT FENCE (SILT FENCE) INSTALLATION DETAIL
NOT TO SCALE



2 TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE



3 DITCH CHECK DAM
NOT TO SCALE



4 EROSION CONTROL SAND FILTER BAG
NOT TO SCALE

BEST MANAGEMENT PRACTICES (BMP'S)

POLLUTION THROUGH STORM RUNOFF IS INTENSIFIED AT CONSTRUCTION SITES DUE TO THE REMOVAL OF THE NATURAL GROUND COVER OF THE SITE AS WELL AS THE INTRODUCTION OF HAZARDOUS CHEMICALS AND WASTES TO THE AREA. MEASURES ARE REQUIRED BOTH DURING CONSTRUCTION AND AFTER THE COMPLETION OF CONSTRUCTION TO STABILIZE THE SITE. STABILIZATION OF THE SITE DURING CONSTRUCTION ACTIVITIES CONSISTS OF THE INSTALLATION OF TEMPORARY OR PERMANENT MEASURES TO PREVENT EROSION OR TO INTERCEPT SEDIMENT PRIOR TO IT LEAVING THE SITE. THIS CAN BE ACCOMPLISHED THROUGH THE USE OF GROUND COVER MULCHING, PAVING, SILT FENCES, AND SEDIMENT BASINS ALONG WITH CONSTRUCTION METHODS TO REDUCE THE DISTURBED AREAS OF CONSTRUCTION.

CONSTRUCTION SPECIFICATIONS

- FENCE POSTS SHALL BE A MINIMUM OF 5'-0" LONG DRIVEN 24" MINIMUM INTO THE GROUND. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHING NOT LESS THAN 1.00 POUND PER LINEAR FOOT.
- GEOTEXTILE SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES AT TOP AND MID-SECTION AND SHALL MEET THE DEFINED FILTER FABRIC SPECIFICATIONS.
- WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND WIRE TIED TO PREVENT SEDIMENT BYPASS.
- SILT FENCE SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND MAINTAINED WHEN BULGES OCCUR OR WHEN SEDIMENT ACCUMULATION REACHED 50% OF THE FABRIC HEIGHT.

MANNER OF CONSTRUCTION

- PLACE THE BOTTOM 1FT OF FABRIC IN 8-INCH DEEP TRENCH LAPPING TOWARD THE UPSLOPE SIDE.
- BACKFILL WITH COMPACTED EARTH OR GRAVEL AS SHOWN. TO REDUCE MAINTENANCE, EXCAVATE A SHALLOW SEDIMENT STORAGE AREA ON UP SLOPE SIDE OF FENCE WHERE SEDIMENTATION IS EXPECTED.
- PROVIDE GOOD ACCESS TO DEPOSITION AREAS FOR CLEAN-OUT AND MAINTENANCE.
- DO NOT INSTALL SEDIMENT FENCE ACROSS INTERMITTENT OR PERMANENT STREAMS, CHANNELS, OR ANY LOCATION WHERE CONCENTRATED FLOW IS ANTICIPATED.

INSPECTIONS

INSPECTIONS SHALL BE PERFORMED EVERY FOURTEEN (14) DAYS OR AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER

MAJOR ITEMS TO BE OBSERVED DURING INSPECTIONS INCLUDE:

- LOCATION OF DISCHARGES OF SEDIMENT OR OTHER POLLUTANTS
- LOCATION OF BEST MANAGEMENT PRACTICES (BMP'S) THAT ARE IN NEED OF MAINTENANCE
- LOCATION OF BMP'S WHICH ARE NOT PERFORMING, FAILED TO OPERATE, OR WERE INADEQUATE
- LOCATIONS WHERE ADDITIONAL BMP'S ARE NEEDED.

FILTER FABRIC SPECIFICATIONS

SILT FENCE SHALL BE CONSTRUCTED OF A WOVEN, POLYPROPYLENE, POLYESTER OR POLYIMIDE MATERIAL THAT SHALL BE RESISTANT TO ULTRA-VIOLET DEGRADATION AND ROT. THE EDGES OF THE WOVEN FABRIC SHALL BE SEALED OR SALVAGED TO PREVENT RAVELING. THE FABRIC SHALL EXHIBIT THE FOLLOWING PHYSICAL PROPERTIES WHEN SAMPLED AND TESTED USING THE SPECIFIED METHODS.

PROPERTY	TEST METHODS	VALUES
GRAB TENSILE	ASTM D-4632	100 LB. (MIN.)
ELONGATION @ YIELD	ASTM D-4632	10-40% (MAX.)
TRAPEZOID TEAR	ASTM D-4533	50 LB. (MIN.)
UV RESISTANCE	ASTM D-4355	80% (MIN.)
APPARENT OPENING SIZE	ASTM D-4751	20-50 US SIEVE
PERMITIVITY 1/SEC	ASTM D-4491	O.1 (MIN.)

PREFABRICATED FENCE SYSTEMS MAY BE USED PROVIDED THEY MEET ALL THE MATERIAL REQUIREMENTS.

EROSION CONTROL MEASURES SHALL REMAIN UNTIL A STAND OF VEGETATIVE GROUND COVER OF 70% OR GREATER COVERAGE IS ESTABLISHED.

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
RED RIVER

CERTIFICATE OF AUTHORITY
LEIDOS ENGINEERING, LLC
No. 510
ARKANSAS

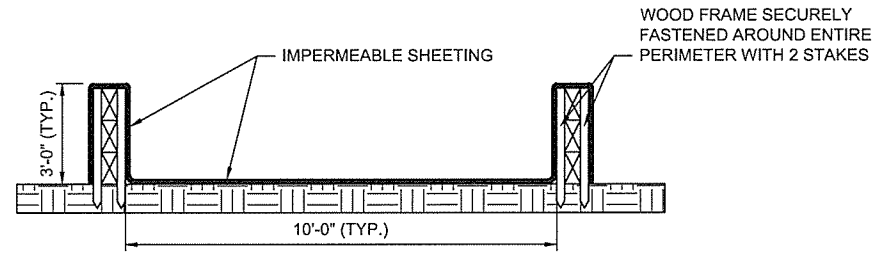
STATE OF ARIZONA
REGISTERED PROFESSIONAL ENGINEER
No. 13439
REBECCY TAYLOR

CIVIL DETAILS SHEET 6 OF 8

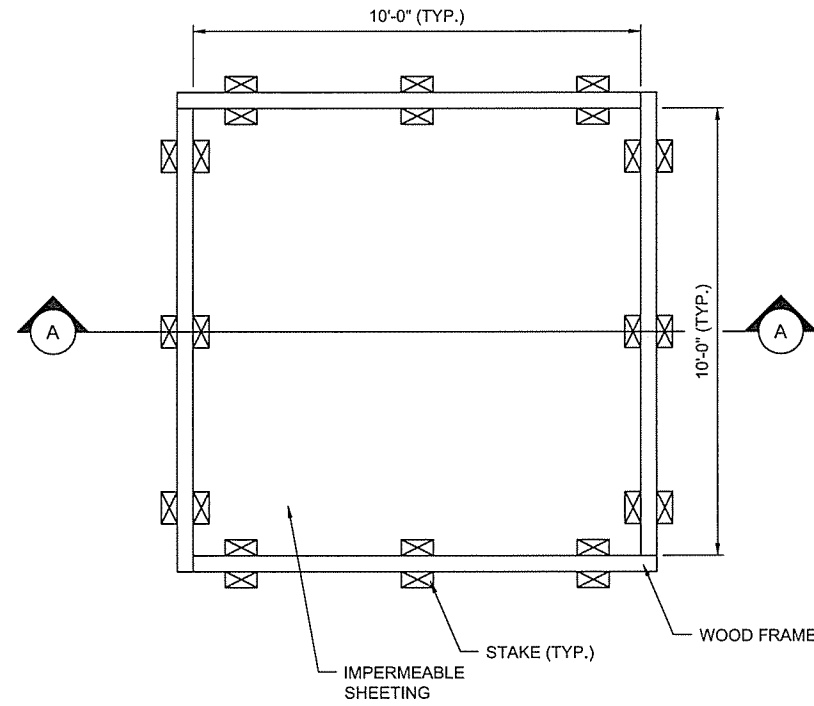
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APPROVED BY	RRT

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SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-506
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SECTION A-A



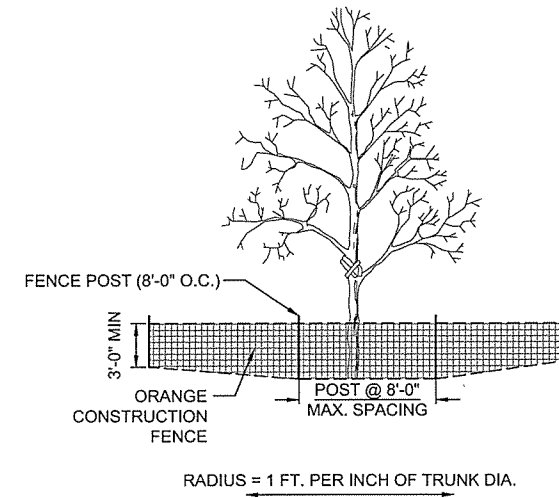
PLAN VIEW

1 CONCRETE WASHOUT STRUCTURE WITH WOOD PLANKS
NOT TO SCALE

WASHOUT STRUCTURE WITH STRAW BALES

CONSTRUCTION SPECIFICATIONS:

- LOCATE WASHOUT STRUCTURE A MINIMUM OF 50 FEET AWAY FROM OPEN CHANNELS, STORM DRAIN INLETS, SENSITIVE AREAS, WETLANDS, BUFFERS, AND WATER COURSES, AND AWAY FROM FROM CONSTRUCTION TRAFFIC.
- SIZE WASHOUT STRUCTURE FOR VOLUME NECESSARY TO CONTAIN WASH WATER AND SOLIDS, AND MAINTAIN AT LEAST 4 INCHES OF FREEBOARD. TYPICAL DIMENSIONS ARE 10 FEET X 10 FEET X 3 FEET DEEP.
- PREPARE SOIL BASE FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE LINER. FOR LINER, USE 10 MIL OR THICKER UV RESISTANT, IMPERMEABLE SHEETING, FREE OF HOLES AND REARS OR OTHER DEFECTS THAT COMPROMISE IMPERMEABILITY OF THE MATERIAL.
- PROVIDE A SIGN FOR THE WASHOUT IN CLOSE PROXIMITY TO THE FACILITY.
- KEEP CONCRETE WASHOUT STRUCTURE WATER TIGHT. REPLACE IMPERMEABLE LINER IF DAMAGED (E.G. RIPPED OR PUNCTURED). EMPTY OR REPLACE WASHOUT STRUCTURE THAT IS 75 PERCENT FULL, AND DISPOSE OF ACCUMULATED MATERIAL PROPERLY. DO NOT REUSE PLASTIC LINER. WET-VACUUM STORED LIQUIDS THAT HAVE NOT EVAPORATED, AND DISPOSE OF IN AN APPROVED MANNER. PRIOR TO FORECASTED RAINSTORMS, REMOVE LIQUIDS OR COVER STRUCTURE TO PREVENT OVERFLOWS. REMOVE HARDENED SOLIDS, WHOLE OR BROKEN UP, FOR DISPOSAL OR RECYCLING. MAINTAIN RUNOFF DIVERSION AROUND EXCAVATED WASHOUT STRUCTURE UNTIL STRUCTURE IS REMOVED.



2 TREE PROTECTION FENCING
NOT TO SCALE



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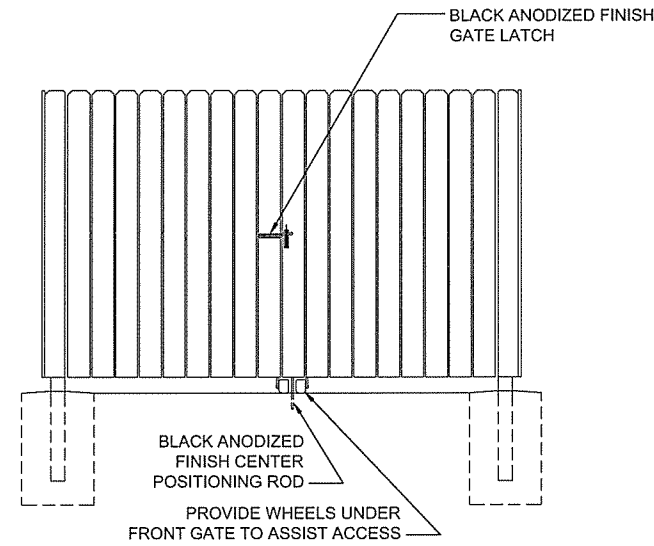
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
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RED RIVER

CIVIL DETAILS SHEET 7 OF 8

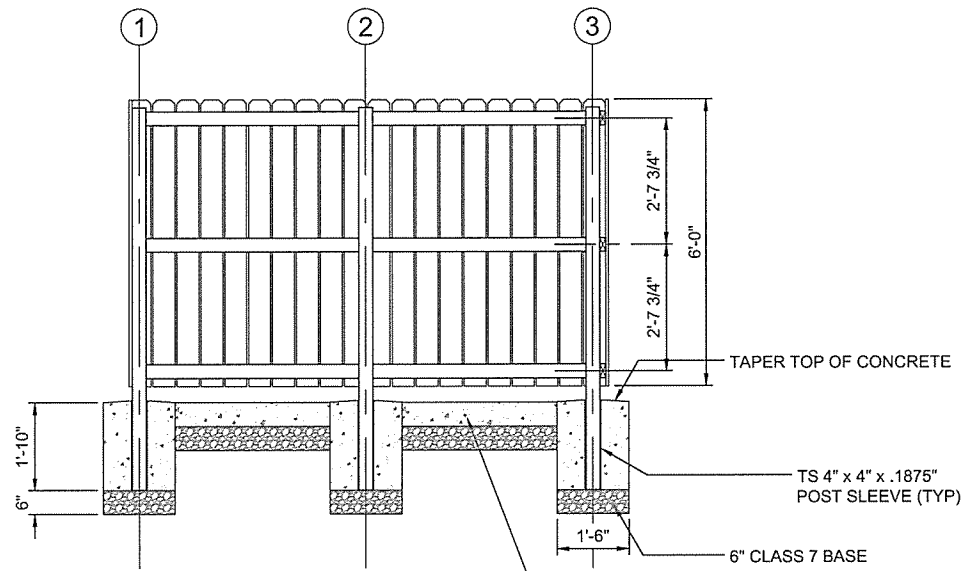
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DRAWN BY	PMM
CHECKED BY	RRT
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DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	C-507
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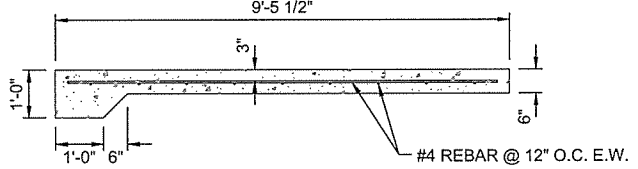
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FRONT ELEVATION

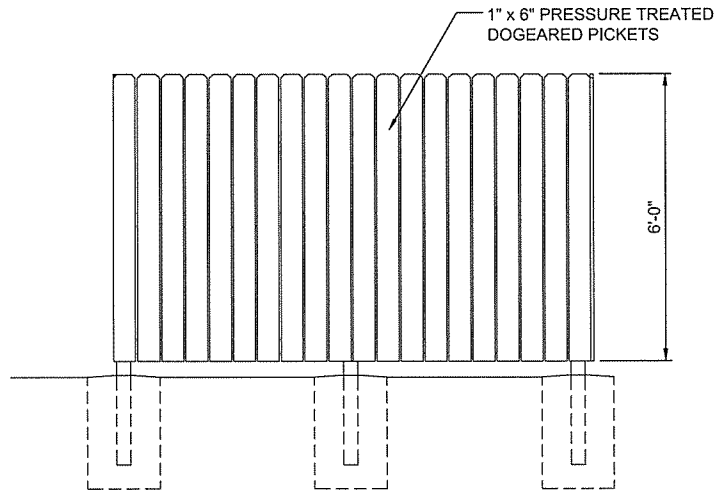


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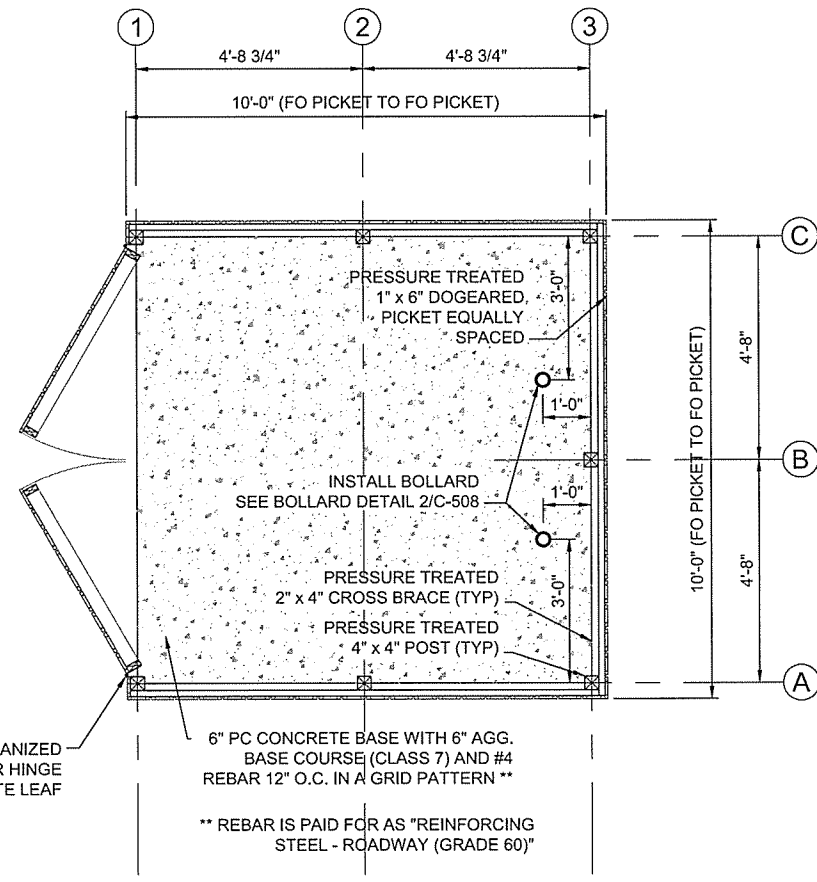


CONCRETE PAD SIDE VIEW

6" PC CONCRETE BASE WITH 6" AGG. BASE COURSE (CLASS 7) AND #4 REBAR 12" O.C. IN A GRID PATTERN **
 ** REBAR IS PAID FOR AS "REINFORCING STEEL - ROADWAY (GRADE 60)"

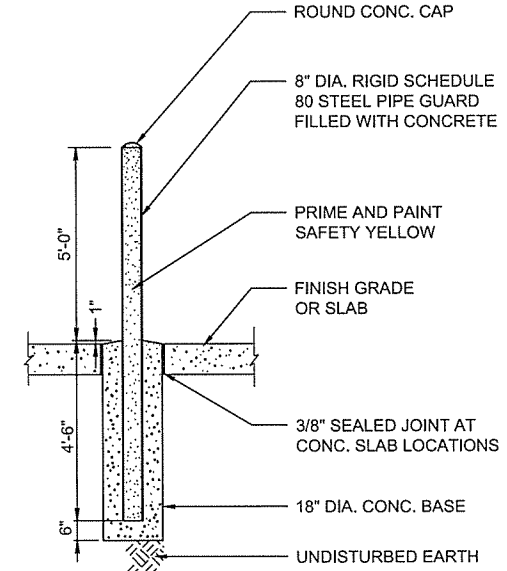


SIDE ELEVATION



PLAN VIEW

1 DUMPSTER PAD AND SCREEN DETAILS
 NOT TO SCALE



2 CONCRETE BOLLARD DETAIL
 NOT TO SCALE

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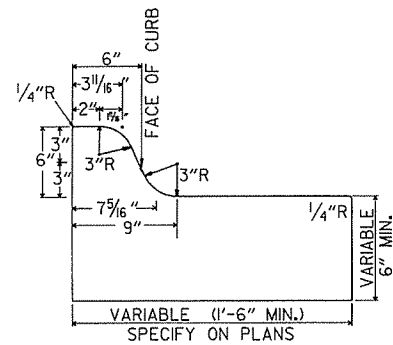
CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
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 ARKANSAS

REGISTERED PROFESSIONAL ENGINEER
 No. 13439
 REMLEY TAYLOR

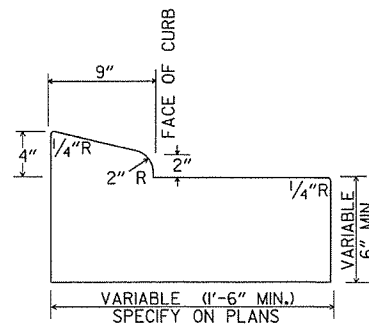
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DESIGNED BY	JEG
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APPROVED BY	RRT

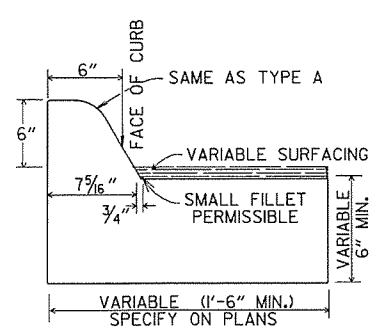
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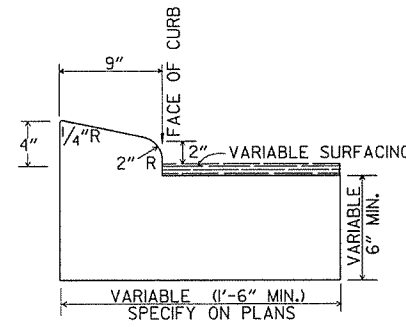
TYPE A



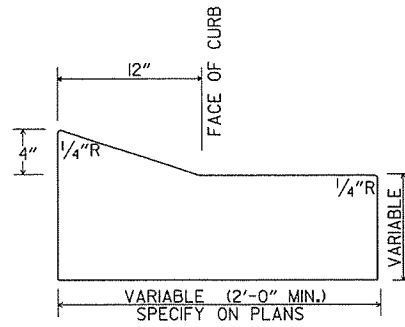
TYPE B-1



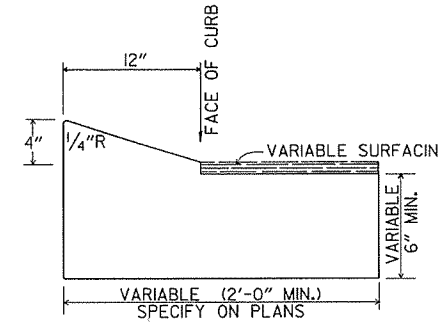
TYPE C



TYPE B-2

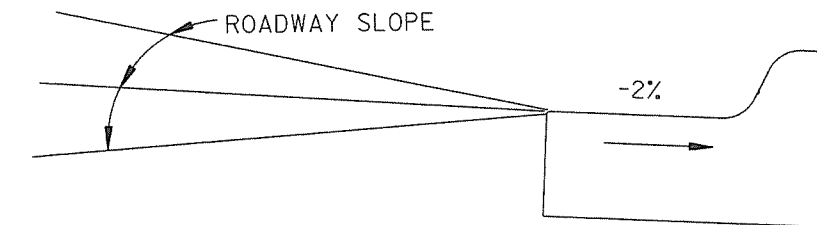


TYPE E-1

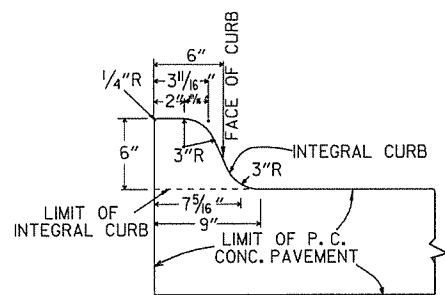


TYPE E-2

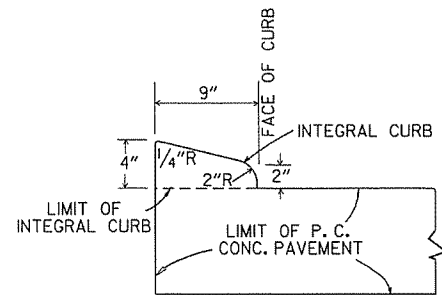
CONCRETE COMBINATION CURB AND GUTTER



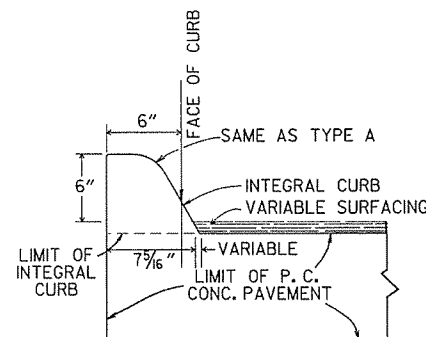
DETAIL OF GUTTER SLOPE
GUTTER SHALL BE CONSTRUCTED ON 2% SLOPE AWAY FROM ROADWAY, REGARDLESS OF ROADWAY SLOPE.



TYPE A

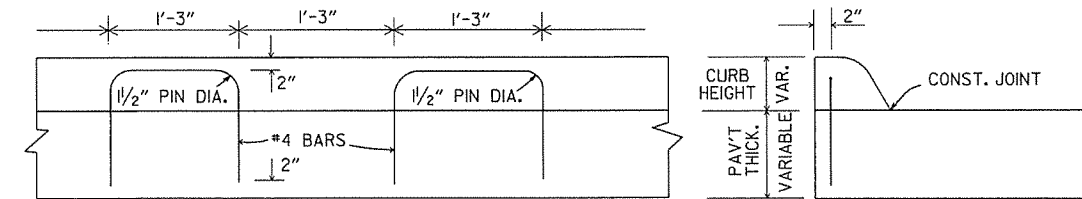


TYPE B



TYPE C

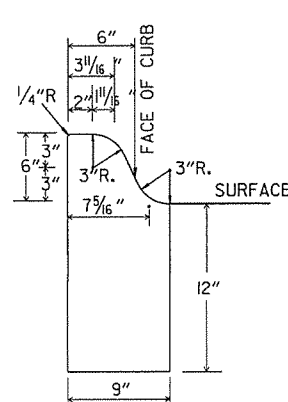
INTEGRAL CURB



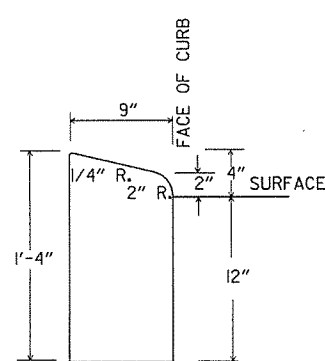
LONGITUDINAL SECTION

ELEVATION

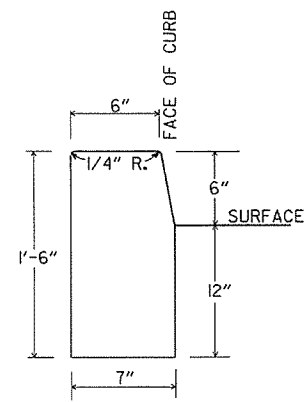
ALTERNATE CONSTRUCTION METHOD FOR INTEGRAL CURB



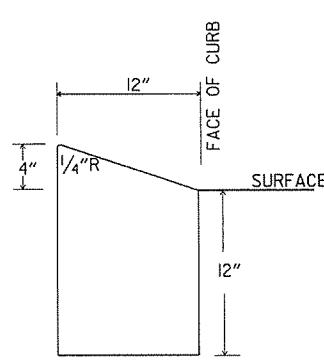
TYPE A



TYPE B

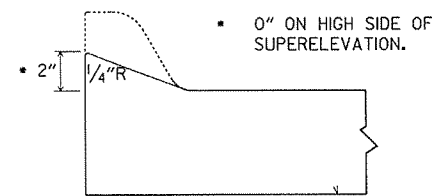


TYPE D



TYPE E

CONCRETE CURB



NOTE: USE MODIFIED CURB AS SPECIFIED ON STD. DR-1. COMPENSATION FOR MODIFIED CURB WILL BE CONSIDERED INCLUDED IN THE PRICE BID FOR THE TYPE OF CURB OR CURB AND GUTTER SPECIFIED.

DETAILS OF MODIFIED CURB

DATE	REVISION	DATE FILMED
11-29-07	REVISED GUTTER SLOPE & MODIFIED CURB DETAILS	
11-10-05	ADDED DETAILS OF TYPE E CURBS	
11-16-01	REVISED CONCRETE CURB TYPE B	
11-18-98	REVISED MODIFIED CURB	
6-2-94	ADDED NOTE TO SPECIAL MODIFIED CURB	
8-5-93	CORRECTED GUTTER SLOPE	8-5-93
10-1-92	ADDED DETAILS OF GUTTER SLOPE	10-1-92
5-24-90	ADDED DETAILS OF MODIFIED CURB	5-24-90
11-30-89	VARIABLE DEPTH TYPE A & B 1	11-30-89
7-15-88	REVISED MODIFIED CURB	630-7-15-88
11-1-73	REVISED MODIFIED CURB	500-11-1-73
10-2-72	REVISED AND REDRAWN	512-10-2-72

ARKANSAS STATE HIGHWAY COMMISSION

CURBING DETAILS

STANDARD DRAWING CG-1

REINFORCED CONCRETE ARCH PIPE DIMENSIONS

EQUIV. DIA.	SPAN		RISE	
	AASHTO M 206	AHTD NOMINAL	AASHTO M 206	AHTD NOMINAL
INCHES	INCHES			
15	18	18	11	11
18	22	22	13½	14
21	26	26	15½	16
24	28½	29	18	18
30	36¼	36	22½	23
36	43¾	44	26¾	27
42	51¼	51	31¼	31
48	58½	59	36	36
54	65	65	40	40
60	73	73	45	45
72	88	88	54	54
84	102	102	62	62
90	115	115	72	72
96	122	122	77½	77
108	138	138	87¼	87
120	154	154	96¾	97
132	168¾	169	106½	107

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M206.

REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE DIMENSIONS

EQUIV. DIA.	AASHTO M 207	
	SPAN	RISE
INCHES	INCHES	
18	23	14
24	30	19
27	34	22
30	38	24
33	42	27
36	45	29
39	49	32
42	53	34
48	60	38
54	68	43
60	76	48
66	83	53
72	91	58
78	98	63
84	106	68

THE MEASURED SPAN AND RISE SHALL NOT VARY MORE THAN ± 2 PERCENT FROM THE VALUES SPECIFIED BY AASHTO M207.

CONSTRUCTION SEQUENCE

1. PLACE STRUCTURAL BEDDING MATERIAL TO GRADE. DO NOT COMPACT.
2. INSTALL PIPE TO GRADE.
3. COMPACT STRUCTURAL BEDDING OUTSIDE THE MIDDLE THIRD OF THE PIPE.
4. PLACE AND COMPACT THE HAUNCH AREA UP TO THE MIDDLE OF THE PIPE.
5. COMPLETE BACKFILL ACCORDING TO SUBSECTION 606.03.(F)(II).

NOTE: HAUNCH AND STRUCTURAL BEDDING MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT COMPENSATION WILL BE CONSIDERED TO BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF CONCRETE PIPE.

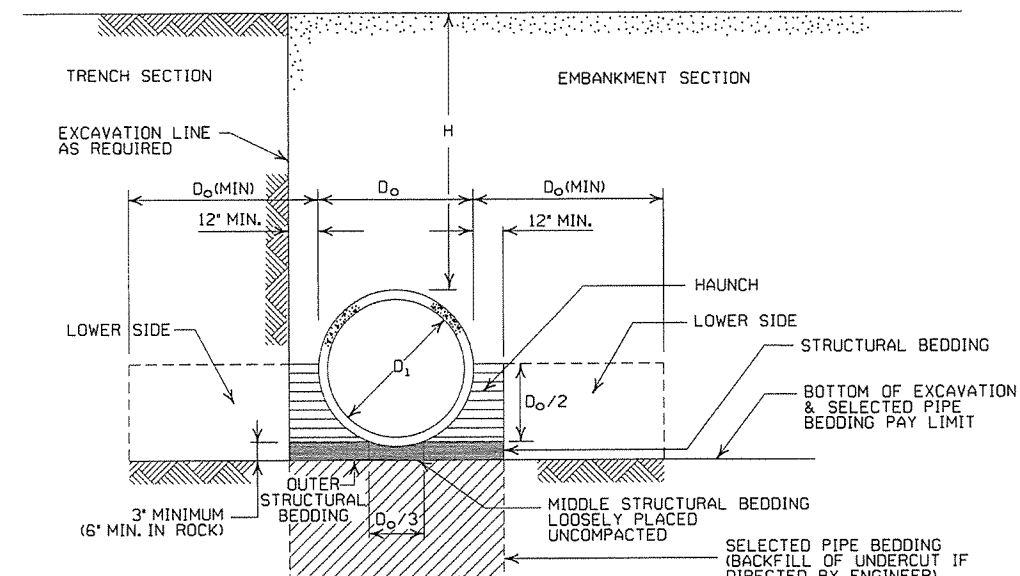
- LEGEND -

- D₁ = NORMAL INSIDE DIAMETER OF PIPE
- D_o = OUTSIDE DIAMETER OF PIPE
- H = FILL COVER HEIGHT OVER PIPE (FEET)
- MIN. = MINIMUM
- [Symbol] = UNDISTURBED SOIL

INSTALLATION TYPE	MATERIAL REQUIREMENTS FOR HAUNCH AND STRUCTURAL BEDDING
TYPE 1	AGGREGATE BASE COURSE (CLASS 5 OR CLASS 7)
TYPE 2	SELECTED MATERIALS (CLASS SM-1, SM-2, OR SM-4) OR TYPE 1 INSTALLATION MATERIAL*
TYPE 3 **	AASHTO CLASSIFICATION A-1 THRU A-6 SOIL OR TYPE 1 OR 2 INSTALLATION MATERIAL

* SM-3 WILL NOT BE ALLOWED.

** MATERIALS SHALL NOT INCLUDE ORGANIC MATERIALS OR STONES LARGER THAN 3 INCHES.



EMBANKMENT AND TRENCH INSTALLATIONS

1. MATERIAL IN THE HAUNCH AND OUTER STRUCTURAL BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.
2. FOR TRENCHES WITH WALLS OF NATURAL SOIL, THE DENSITY OF THE SOIL IN THE LOWER SIDE ZONE SHALL BE AS FIRM AS THE 95% DENSITY REQUIRED FOR THE HAUNCH. IF THE EXISTING SOIL DOES NOT MEET THIS CRITERIA, IT SHALL BE REMOVED AND RECOMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OF MATERIAL USED.
3. FOR EMBANKMENTS, THE MATERIAL IN THE LOWER SIDE ZONE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY ACCORDING TO THE TYPE OR CLASS OF MATERIAL USED.

GENERAL NOTES

1. CONCRETE PIPE CULVERT CONSTRUCTION SHALL CONFORM TO ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION), WITH APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS. UNLESS OTHERWISE NOTED IN THE PLANS, SECTION AND SUBSECTION REFER TO THE STANDARD CONSTRUCTION SPECIFICATIONS.
2. CONCRETE PIPE CULVERT DESIGN SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FIFTH EDITION (2010) WITH 2010 INTERIMS.
3. ALL PIPE SHALL CONFORM TO SECTION 606. CIRCULAR R.C. PIPE CULVERTS SHALL CONFORM TO AASHTO M170, R.C. ARCH PIPE CULVERTS SHALL CONFORM TO AASHTO M206 AND HORIZONTAL ELLIPTICAL PIPE CULVERTS SHALL CONFORM TO AASHTO M207.
4. ALL PIPE SHALL BE PROTECTED DURING CONSTRUCTION BY A COVER SUFFICIENT TO PREVENT DAMAGE FROM PASSAGE OF EQUIPMENT.
5. THE MINIMUM TRENCH WIDTH SHALL BE THE OUTSIDE DIAMETER OF THE PIPE PLUS 24 INCHES. THE MAXIMUM ALLOWABLE TRENCH WIDTH SHALL BE THE MINIMUM WIDTH PRACTICABLE FOR WORKING CONDITIONS.
6. MULTIPLE PIPE CULVERTS SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 24 INCHES BETWEEN STRINGS OF PIPE. REFER TO STD. DWG. FES-2 FOR MINIMUM CLEARANCE WHERE FLARED END SECTIONS ARE USED.
7. IMPERVIOUS MATERIAL SHOULD BE PLACED AS DIRECTED BY THE ENGINEER AT THE ENDS OF THE CULVERT TO PREVENT LOSS OF STRUCTURAL BEDDING WHEN PERVIOUS MATERIAL IS USED FOR STRUCTURAL BEDDING AND/OR BACKFILL.
8. NOT MORE THAN ONE LIFTING HOLE MAY BE PROVIDED IN CONCRETE PIPE TO FACILITATE HANDLING. HOLE MAY BE CAST IN PLACE, CUT INTO THE FRESH CONCRETE AFTER FORMS ARE REMOVED, OR DRILLED. THE HOLE SHALL NOT BE MORE THAN TWO INCHES IN DIAMETER OR TWO INCHES SQUARE. CUTTING OR DISPLACEMENT OF REINFORCEMENT WILL NOT BE PERMITTED. SPILLED AREAS AROUND THE HOLE SHALL BE REPAIRED IN A WORKMANLIKE MANNER. LIFTING HOLE SHALL BE FILLED WITH MORTAR, CONCRETE, OR OTHER METHOD AS APPROVED BY THE ENGINEER.
9. WHEN DIRECTED BY THE ENGINEER, UNSUITABLE MATERIAL THAT IS ENCOUNTERED AT THE BOTTOM OF THE EXCAVATED TRENCH (BELOW THE AREA IDENTIFIED AS "STRUCTURAL BEDDING" ABOVE) WILL BE EXCAVATED AND REPLACED WITH SELECTED PIPE BEDDING. THE QUANTITY OF MATERIAL REQUIRED TO BACKFILL THE UNDERCUT AREA UP TO THE SELECTED PIPE BEDDING PAY LIMIT DESIGNATED ABOVE WILL BE MEASURED AND PAID FOR AS "SELECTED PIPE BEDDING."
10. WHEN THE EXISTING MATERIAL EXCAVATED FOR THE PIPE TRENCH IS DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING THE PIPE (ABOVE THE AREA IDENTIFIED ABOVE AS THE HAUNCH), BORROW MATERIAL OR MATERIAL FROM THE ROADWAY EXCAVATION WILL BE USED TO BACKFILL THE PIPE. IF SUITABLE MATERIAL IS NOT AVAILABLE, THE ENGINEER MAY AUTHORIZE THE USE OF "SELECTED PIPE BACKFILL."

MINIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE			
	CLASS III	CLASS IV	CLASS V	ALL
PIPE ID (IN.)	FEET			
12-15	2	2.5	2	1
18-24	2.5	3	2	1
27-33	3	4	2	1
36-42	3.5	5	2	1
48	4.5	5.5	2	1
54-60	5	7	2	1
66-78	6	8	2	1
84-108	7.5	8	2	1

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER CIRCULAR R.C. PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE		
	CLASS III	CLASS IV	CLASS V
TYPE 1	21	32	50
TYPE 2	16	25	39
TYPE 3	12	20	30

NOTE: IF FILL HEIGHT EXCEEDS 50 FEET, A SPECIAL DESIGN CONCRETE PIPE WILL BE REQUIRED USING TYPE 1 INSTALLATION.

MINIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
TYPE 2 OR TYPE 3	2.5	1.5

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

NOTE: FOR MINIMUM COVER VALUES, "H" SHALL INCLUDE A MINIMUM OF 12" OF PAVEMENT AND/OR BASE.

MAXIMUM HEIGHT OF FILL "H" OVER R.C. ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS

INSTALLATION TYPE	CLASS OF PIPE	
	CLASS III	CLASS IV
TYPE 2	13	21
TYPE 3	10	16

NOTE: TYPE 1 INSTALLATION WILL NOT BE ALLOWED FOR ARCH & HORIZONTAL ELLIPTICAL PIPE CULVERTS.

DATE	REVISION	DATE FILMED
2-27-14	REVISED GENERAL NOTE 1.	
12-15-11	REVISED FOR LRFD DESIGN SPECIFICATIONS	
5-18-00	REVISED TYPE 3 BEDDING & ADDED NOTE	
3-30-00	REVISED INSTALLATIONS	
11-06-97	ISSUED	

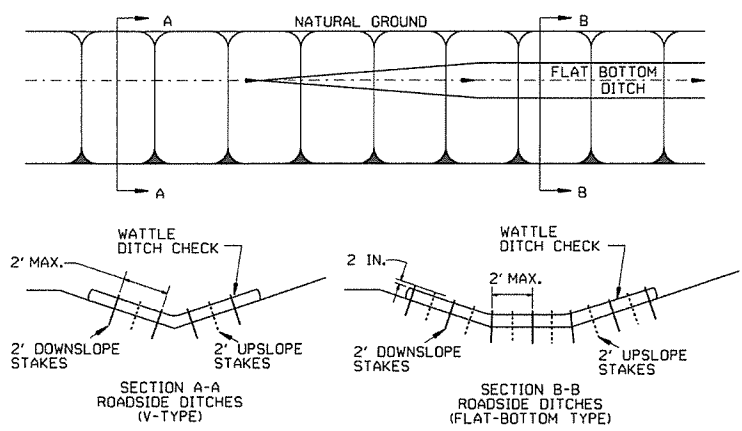
ARKANSAS STATE HIGHWAY COMMISSION

CONCRETE PIPE CULVERT FILL HEIGHTS & BEDDING

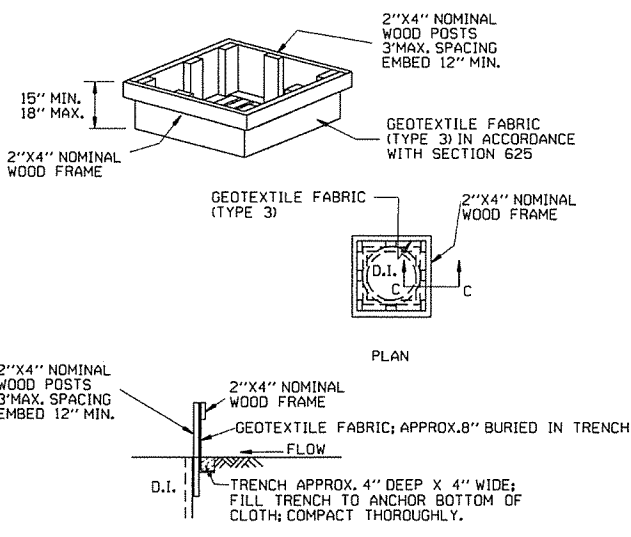
STANDARD DRAWING PCC-1



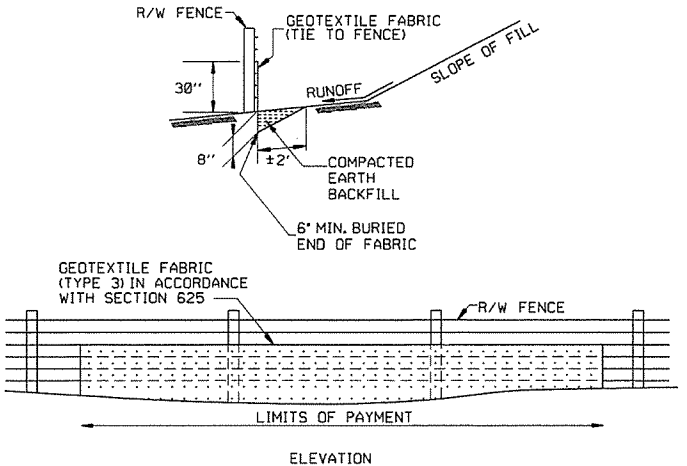
GENERAL NOTES
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.



WATTLE DITCH CHECK (E-1)



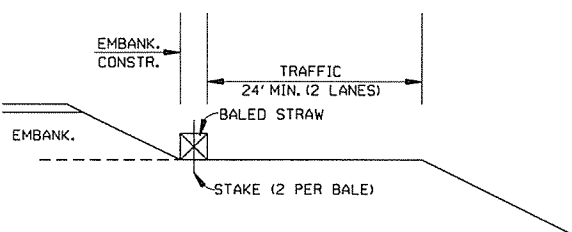
DROP INLET SILT FENCE (E-7)



SILT FENCE ON R/W FENCE (E-4)

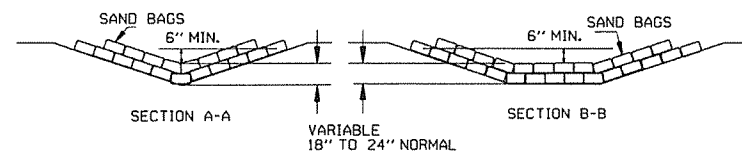
GENERAL NOTES
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST, OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

GENERAL NOTES
1. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES. THE BALES SHALL BE A MINIMUM OF 30 INCHES IN LENGTH.
2. NO GAPS SHALL BE LEFT BETWEEN BALES.
3. BALED STRAW FILTER BARRIERS COMPLETED AND ACCEPTED WILL BE MEASURED BY THE BALE IN PLACE AS AUTHORIZED BY THE ENGINEER AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER BALE FOR BALED STRAW DITCH CHECKS.

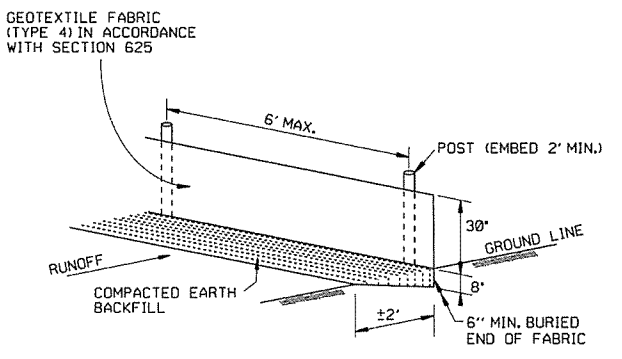


BALED STRAW FILTER BARRIER (E-2)

NUMBER OF SAND BAGS AND ARRANGEMENT VARIABLE WITH ON-SITE CONDITIONS. PLACE SAND BAGS AT BASE OF DITCH CHECK IN AREA OF OVERFLOW



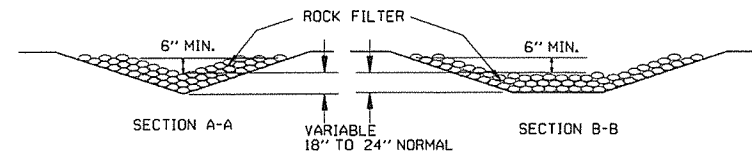
SAND BAG DITCH CHECK (E-5)



SILT FENCE (E-11)

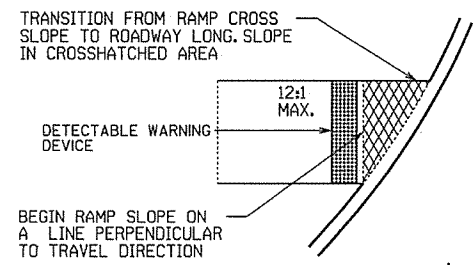
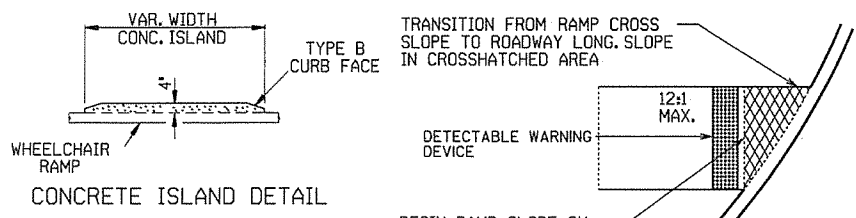
GENERAL NOTES
GEOTEXTILE FABRIC SHALL BE SPLICED TOGETHER WITH A SEWN SEAM ONLY AT A SUPPORT POST OR TWO SECTIONS OF FENCE MAY BE OVERLAPPED INSTEAD. PAYMENT OF ADDITIONAL MATERIAL FOR OVERLAP WILL NOT BE MADE.

APPROX. 2:1 SLOPE
PLACE ROCK AT BASE OF DITCH CHECK IN AREA OF OVERFLOW



ROCK DITCH CHECK (E-6)

12-15-11	DELETED BALED STRAW DITCH CHECK & ADDED WATTLE DITCH CHECK		ARKANSAS STATE HIGHWAY COMMISSION
11-18-98	ADDED NOTES		
7-02-98	ADDED BALED STRAW FILTER BARRIER (E-2)		
7-20-95	REVISED SILT FENCE E-4 AND E-11	7-20-95	TEMPORARY EROSION CONTROL DEVICES
7-15-94	REV. E-4 & E-11 MIN. 13" BURIED END OF FABRIC		
6-2-94	REVISED E-1,4,7 & 11; DELETED E-2 & 3	6-2-94	
4-1-93	REDRAWN		
10-1-92	REDRAWN		
8-2-76	ISSUED R.D.M.	298-7-28-76	STANDARD DRAWING TEC-1
DATE	REVISION	FILMED	

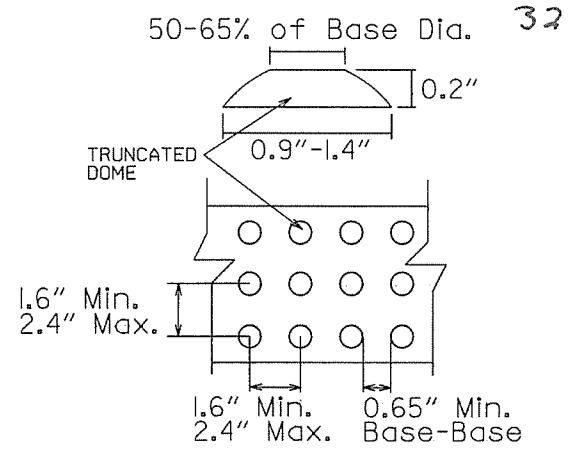


TYPE 1 RAMP DIMENSIONS AND QUANTITIES

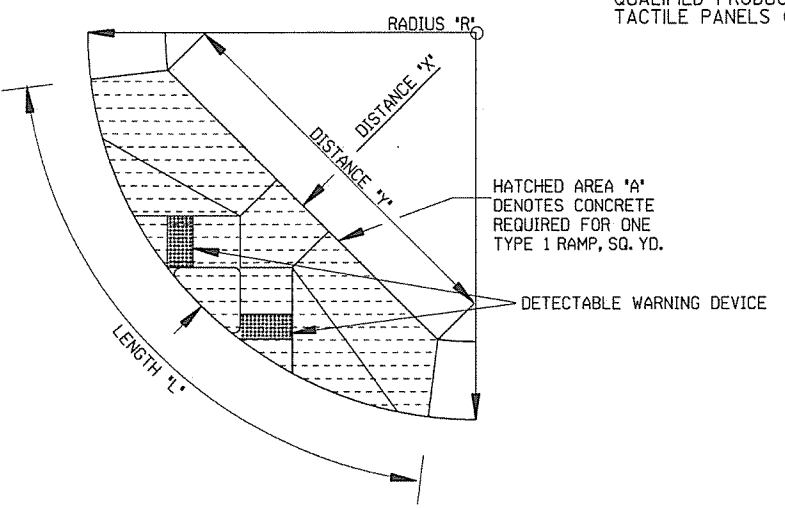
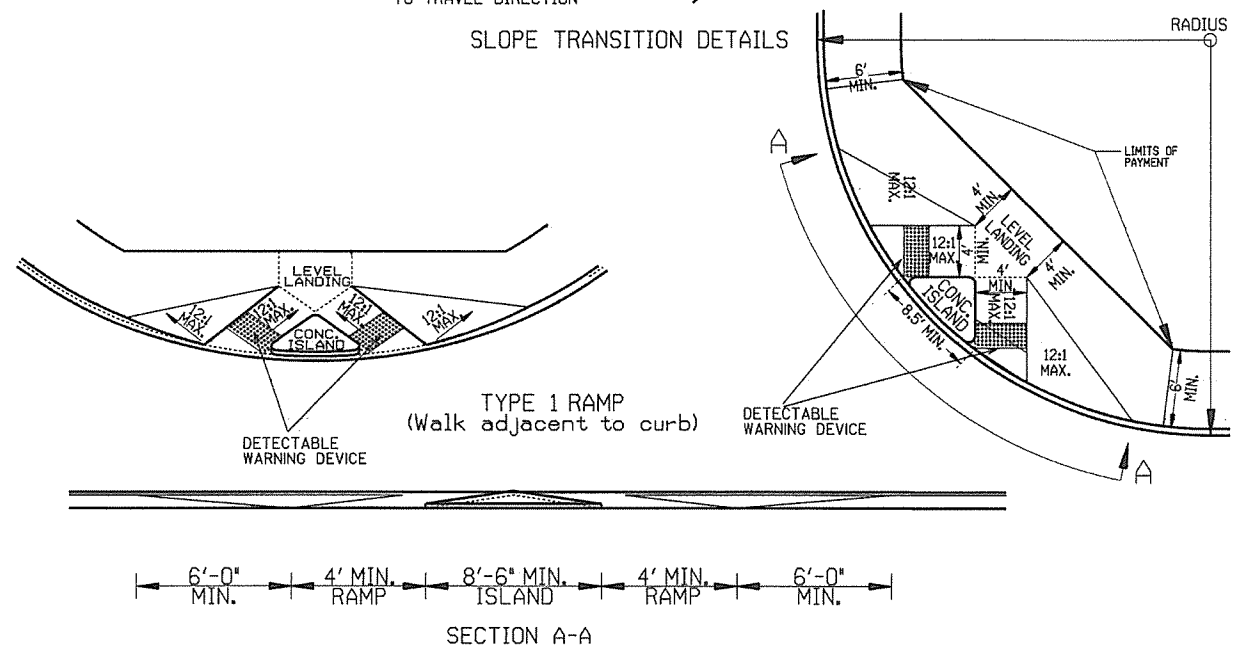
RADIUS 'R'	DISTANCE 'X'	DISTANCE 'Y'	LENGTH 'L'	RAMP AREA
FEET	FEET	FEET	FEET	SQ. YD.
15	11.67	18.82	32.18	26.21
20	11.52	22.28	35.46	30.07
25	11.43	26.60	38.77	33.80
30	11.37	30.26	40.93	36.90
35	11.33	33.51	43.11	39.77
40	11.30	36.45	45.26	42.45
45	11.27	39.16	47.34	44.97
50	11.25	41.69	49.36	47.35
55	11.24	44.07	51.31	49.63
60	11.22	46.33	53.21	51.80

GENERAL NOTES FOR DETECTABLE WARNING DEVICES

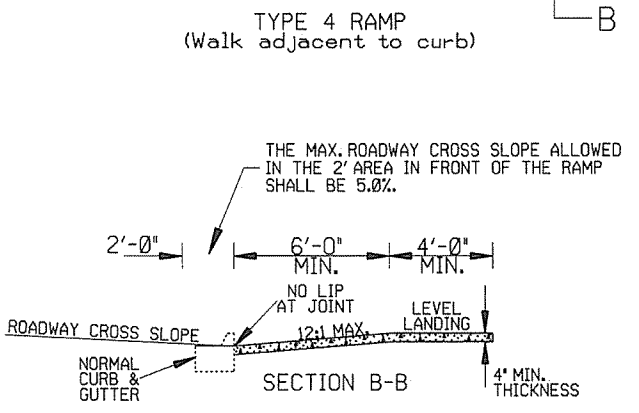
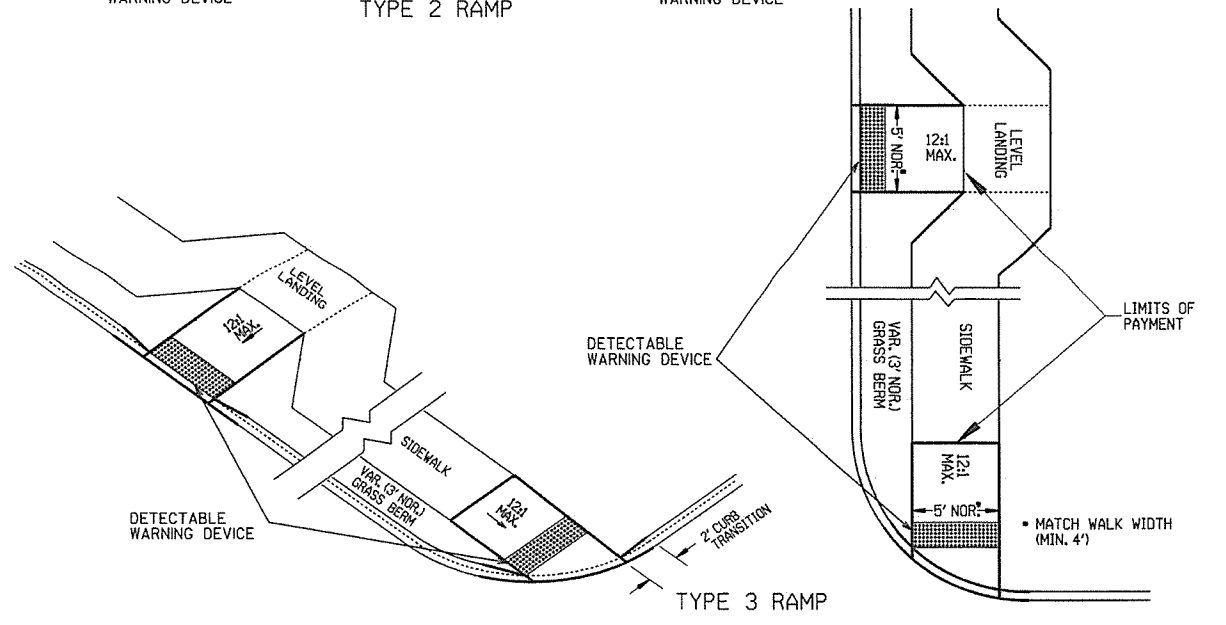
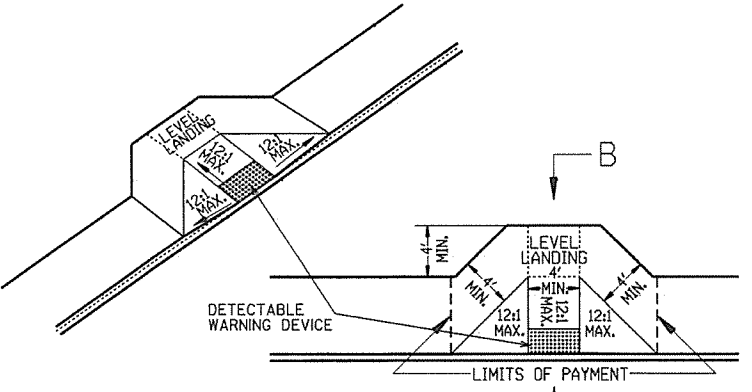
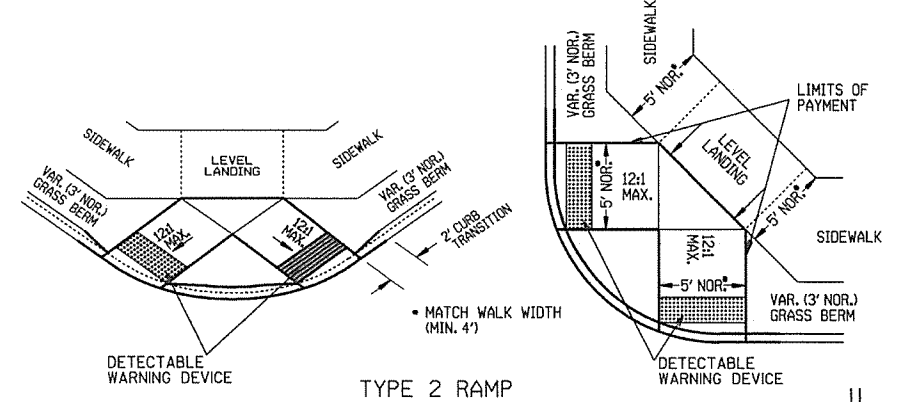
THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE CURB IS 6 TO 8 INCHES FROM THE FACE OF THE CURB. TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES. DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNING DEVICE SHALL BE ON THE AHTD QUALIFIED PRODUCTS LIST FOR CAST-IN-PLACE TACTILE PANELS (ADA DETECTABLE WARNING).



DETECTABLE WARNING DEVICE DETAIL



NOTE: THE CROSS SLOPE OF THE RAMPS, LEVEL LANDINGS, AND SIDEWALKS SHALL NOT EXCEED 2.0% UNLESS REQUIRED TO MATCH STREET LONGITUDINAL GRADE.



GENERAL NOTES:

IN NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED ON THE PLANS, WHEELCHAIR RAMPS ARE TO BE PROVIDED AT ALL CORNERS OF CURBED STREET INTERSECTIONS AND MID-BLOCK CROSSWALK LOCATIONS. IN ALTERATIONS WHEELCHAIR RAMPS ARE TO BE PROVIDED AT CURBED STREET INTERSECTIONS WITH PEDESTRIAN TRAFFIC AND MID-BLOCK CROSSWALK LOCATIONS. THE LENGTH OF THE RAMP SHALL BE SUCH THAT THE SLOPE DOES NOT EXCEED 12:1. THE SURFACE TEXTURE OF THE RAMP SHALL CONFORM TO A CLASS 6 FINISH ACCORDING TO SECTION 802.19. THE NORMAL GUTTER GRADE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION. THE MINIMUM THICKNESS OF THE RAMP, WALK, & LANDING SHALL BE 4". THE MINIMUM WIDTH OF THE RAMPS SHALL BE THE WALK WIDTH OR 36", WHICHEVER IS GREATER. RAMPS SHALL BE MODIFIED AS NECESSARY TO INSURE THAT THEY ARE PARALLEL TO A LINE DRAWN FROM THE CENTER OF ONE RAMP TO THE CENTER OF THE RAMP ON THE OPPOSITE SIDE OF THE INTERSECTION. THE DIMENSIONS AND QUANTITIES SHOWN ON THIS DRAWING ARE FOR A 90° INTERSECTION ONLY. DIMENSIONS AND QUANTITIES FOR SKEWED INTERSECTIONS WILL VARY, AND ARE TO BE DETERMINED BY THE ENGINEER.

RAMP SELECTION CRITERIA

CHOICE	TYPE	DESCRIPTION
FIRST CHOICE	TYPE 1	CORNER LOCATIONS WITH THE WALK ADJACENT TO THE CURB (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 2	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE INSUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 3	CORNER LOCATIONS WITH THE WALK OFFSET FROM THE CURB A DISTANCE SUFFICIENT TO ALLOW THE REQUIRED RAMP SLOPE (BOTH NEW CONSTRUCTION AND ALTERATIONS).
	TYPE 4	TANGENT LOCATIONS (BOTH NEW CONSTRUCTION AND ALTERATIONS).
SECOND CHOICE	TYPE 5	TANGENT LOCATIONS (ALTERATIONS ONLY).
THIRD CHOICE	TYPE 6	CORNER LOCATIONS (ALTERATIONS ONLY). THIS RAMP MAY BE USED ONLY IF THE TYPE 5 RAMPS CANNOT BE PLACED AT THE ENDS OF THE RADIUS.
FOURTH CHOICE		IF SITE CONSTRAINTS PREVENT THE CONSTRUCTION OF ANY OF THE TYPES LISTED, THEN AND ONLY THEN CAN THE 12:1 MAX. SLOPE ON THE RAMP BE EXCEEDED TO PROVIDE ACCESS TO THE STREET LEVEL (ALTERATIONS ONLY). THE SLOPE CAN BE STEEPENED TO A 10:1 MAX. FOR A MAX. LENGTH OF 5' OR A 8:1 MAX. FOR A MAX. LENGTH OF 2'. SLOPES STEEPER THAN 8:1 ARE NOT ALLOWED UNDER ANY CIRCUMSTANCES.

NOTE: IN ALTERATIONS, THE SELECTION OF THE TYPE OF WHEELCHAIR RAMP TO BE CONSTRUCTED SHALL BE BASED ON THE AMOUNT OF RIGHT-OF-WAY AVAILABLE, AND ON THE PRESENCE OF OTHER SITE CONSTRAINTS (UTILITIES, BUILDINGS, ETC.). THE TABLE ABOVE LISTS THE ORDER IN WHICH THE RAMPS ARE TO BE CONSIDERED. AN ALTERATION IS DEFINED AS A PROJECT THAT CHANGES OR AFFECTS THE USE OF A PEDESTRIAN PATHWAY (OVERLAYS, SIGNALIZATION PROJECTS, ETC.) BUT DOES NOT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY. ALL PROJECTS THAT REQUIRE THE PURCHASE OF ADDITIONAL RIGHT-OF-WAY WILL USUALLY BE CONSIDERED NEW CONSTRUCTION FOR THE PURPOSES OF THE CHART ABOVE.

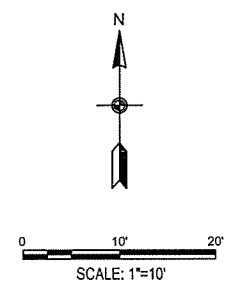
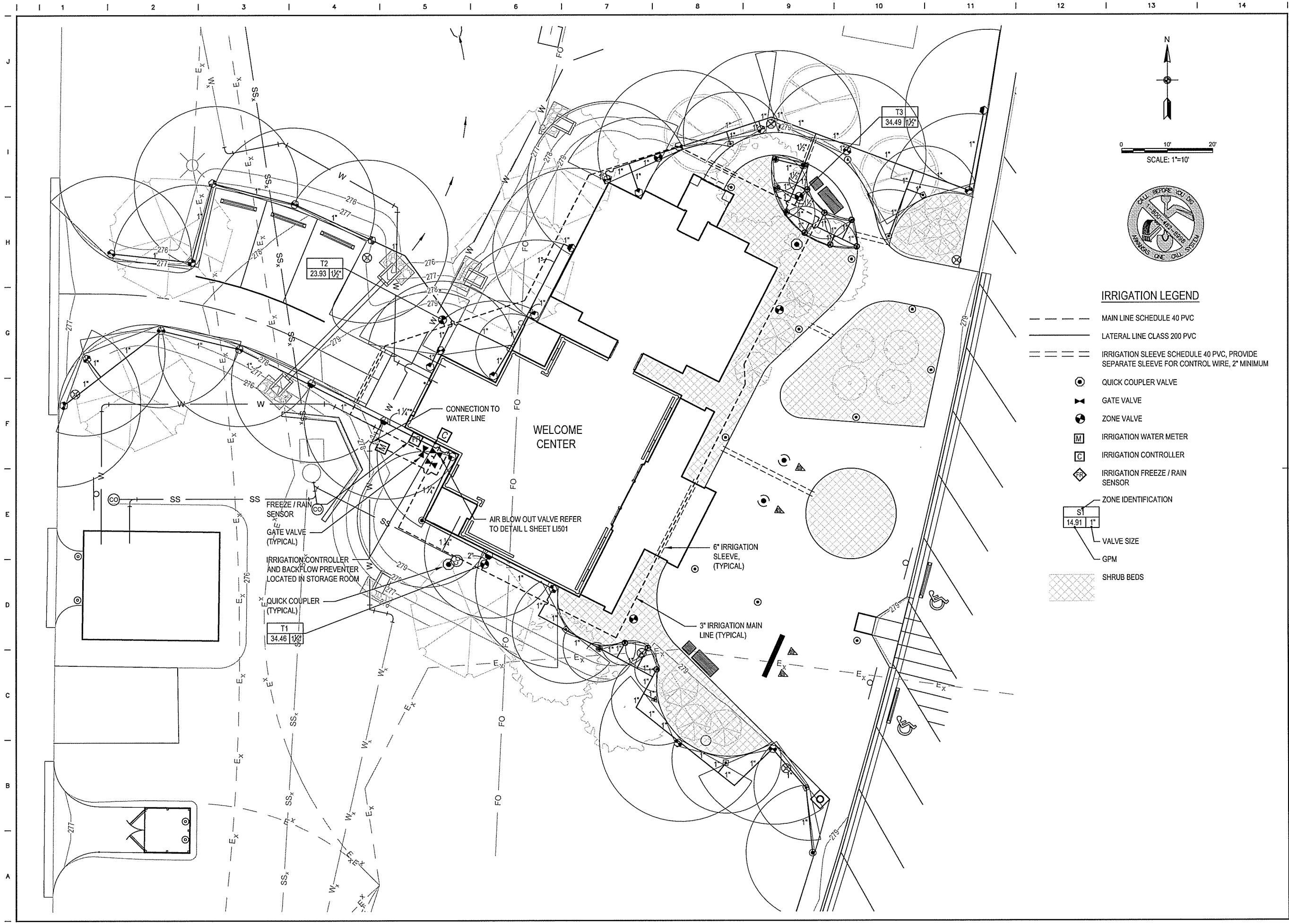
DATE	REVISION	DATE FILM
11-10-05	REVISED TO NEW SIDEWALK POLICY	
10-9-03	REVISED GEN. NOTES & ADDED NOTE	
4-10-03	REV. DETECTABLE WARNING DEVICES	
8-22-02	ADD DETECTABLE WARNING DEVICES	
3-30-00	ADD SLOPE TRANS. & REV. ISL. DIMS.	
11-18-98	REVISED NOTES	
8-12-98	REVISED TEXTURE	
7-02-98	REDRAWN & REISSUED	
10-18-96	CORRECTED DIMENSIONS	10-18-96
5-24-90	FROM 8:1 TO 10:1 MAX. SLOPES	5-24-90
7-15-88	ADJUSTED MAX. SLOPE	652-7-15-88
7-14-88	INCL. "CONC. ISL. IN PAY ITEM"	
6-02-76	ISSUED-P.H.D.	299-7-28-76

ARKANSAS STATE HIGHWAY COMMISSION

WHEELCHAIR RAMPS
NEW CONSTRUCTION
AND ALTERATIONS

STANDARD DRAWING WR-1

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 Date: September 21, 2015 - 10:51 am
 User: knowledj



IRRIGATION LEGEND

- MAIN LINE SCHEDULE 40 PVC
- LATERAL LINE CLASS 200 PVC
- IRRIGATION SLEEVE SCHEDULE 40 PVC, PROVIDE SEPARATE SLEEVE FOR CONTROL WIRE, 2" MINIMUM
- ⊙ QUICK COUPLER VALVE
- ⊗ GATE VALVE
- ⊙ ZONE VALVE
- M IRRIGATION WATER METER
- C IRRIGATION CONTROLLER
- ⊙ IRRIGATION FREEZE / RAIN SENSOR
- ZONE IDENTIFICATION
- S1 VALVE SIZE
- GPM
- ▨ SHRUB BEDS

leidos
 Leidos Engineering, LLC
 3608 N. Steele Blvd, Suite 105
 Fayetteville, Arkansas 72703
 (479) 442-3060
 www.leidos.com

NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APPD
0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

REGISTERED ARCHITECT
 JOSEPH S. ROBERTS
 No. 235
 9-25-15

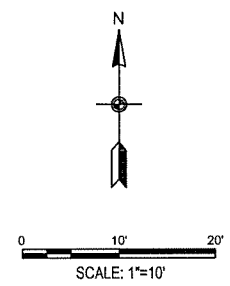
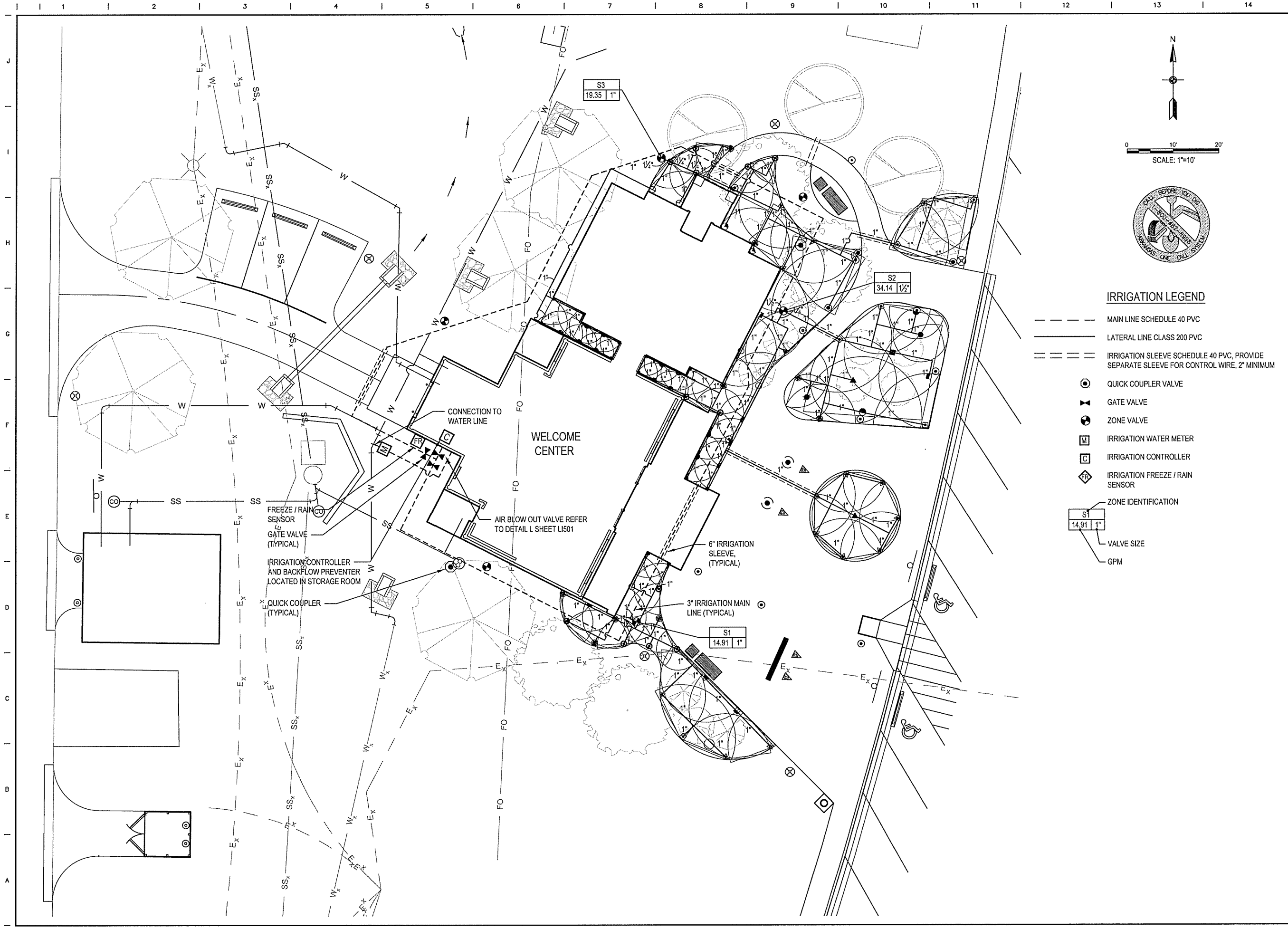
REGISTERED ARCHITECT
 Leidos Engineering, LLC
 No. C-255
 ARKANSAS

TURF IRRIGATION PLAN

DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	LI401
REV	0
33 OF 114	

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IRRIGATION LEGEND

- MAIN LINE SCHEDULE 40 PVC
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- ⊙ ZONE VALVE
- M IRRIGATION WATER METER
- C IRRIGATION CONTROLLER
- ⊠ IRRIGATION FREEZE / RAIN SENSOR
- ZONE IDENTIFICATION
- S1 14.91 1" VALVE SIZE
- GPM

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NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SHRUB IRRIGATION PLAN

DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	LI402
REV	0
34 OF 114	

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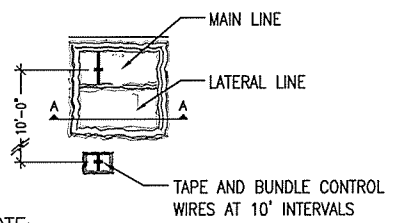
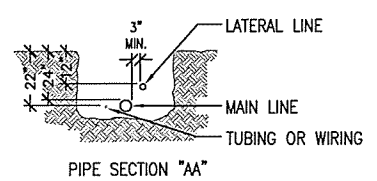
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0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 IRRIGATION DETAILS

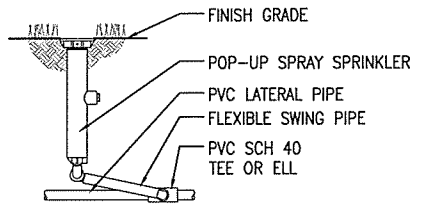
REGISTERED ARCHITECT
Leidos Engineering LLC
No. C-255
ARKANSAS

DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR

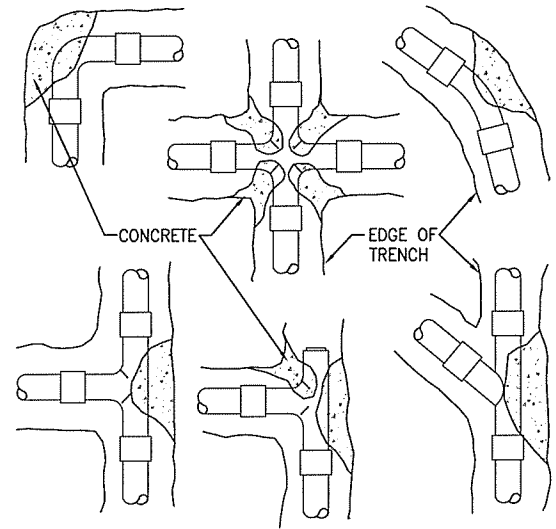
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SHEET	L1501
REV	0
35 OF 114	



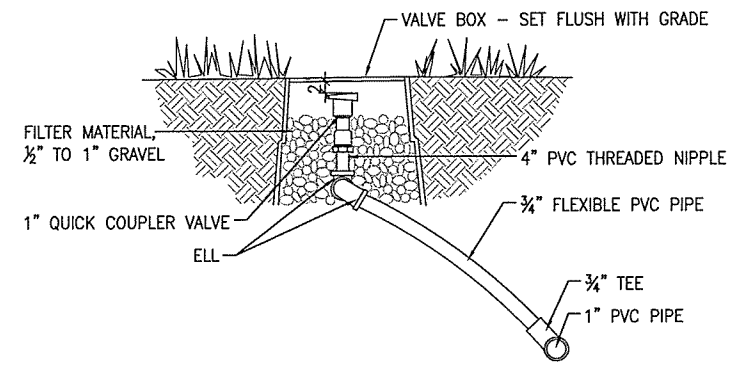
A PIPE PLAN
L1501 SCALE: N.T.S.



B POP-UP SPRING HEAD DETAIL
L1501 SCALE: N.T.S.



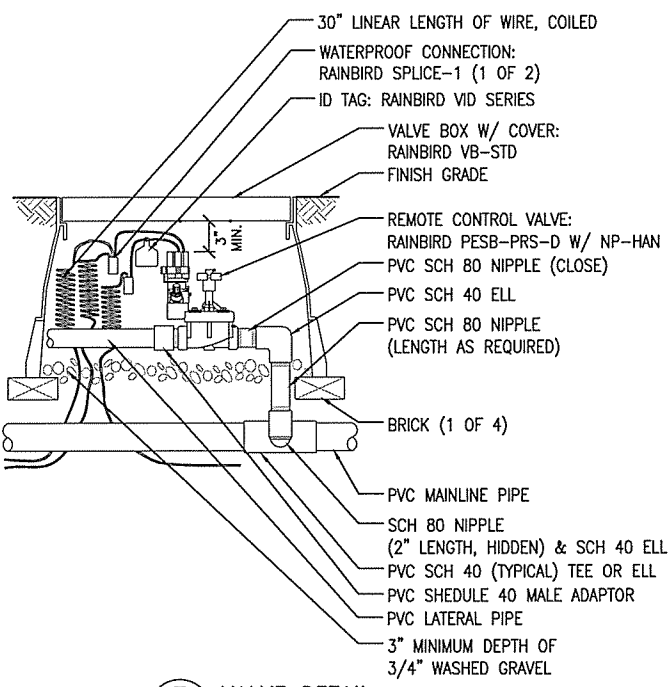
C THRUST BLOCK DETAIL
L1501 SCALE: N.T.S.



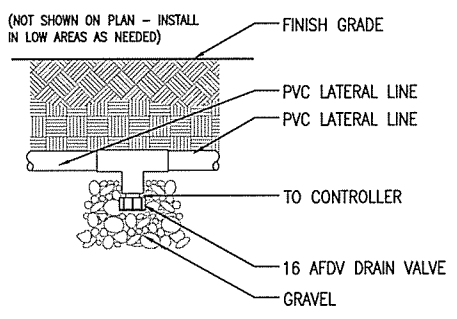
D QUICK COUPLER DETAIL
L1501 SCALE: N.T.S.

NOTE:
1. UNDER PAVED AREAS, ALL LINES AND WIRE SHALL BE SLEEVED WITH SCHEDULE 40 PVC PIPE & SHALL BE 24" IN DEPTH.

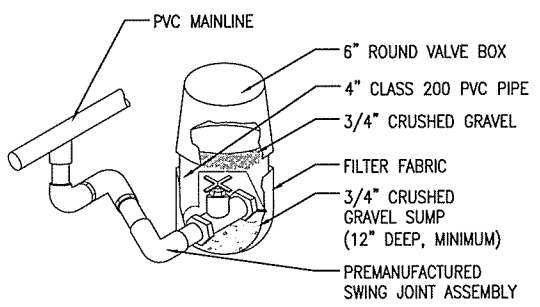
NOTE: PLACE ONE CUBIC FOOT OF CONCRETE FOR EACH THRUST BLOCK. PROVIDE THRUST BLOCKS FOR 3" DIAMETER PIPE.



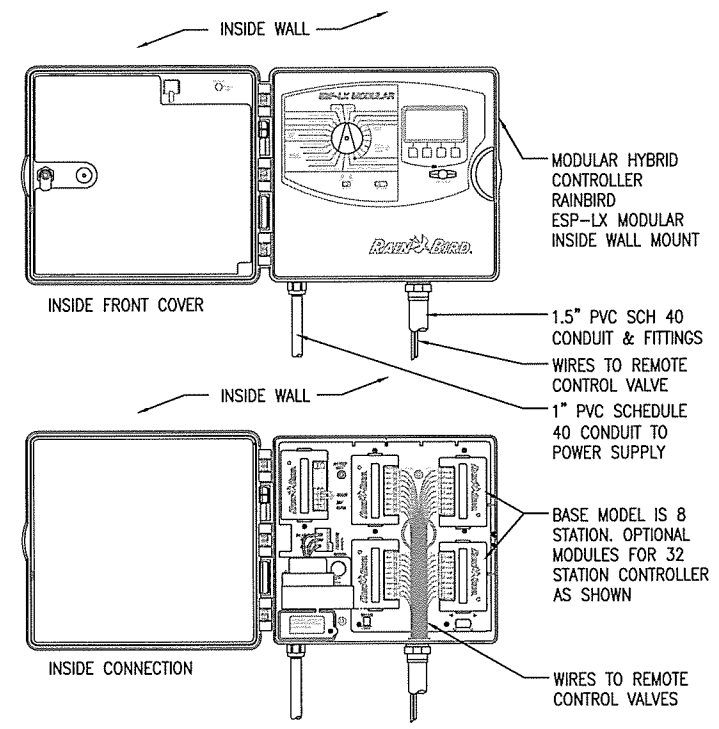
E VALVE DETAIL
L1501 SCALE: N.T.S.



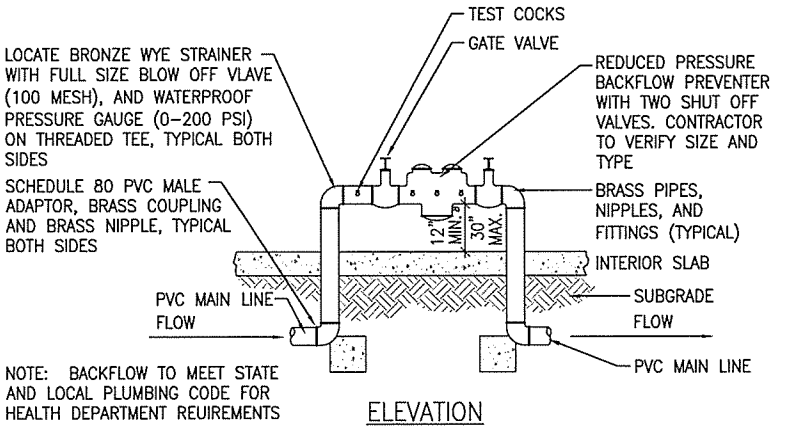
F AUTOMATIC DRAIN VALVE
L1501 SCALE: N.T.S.



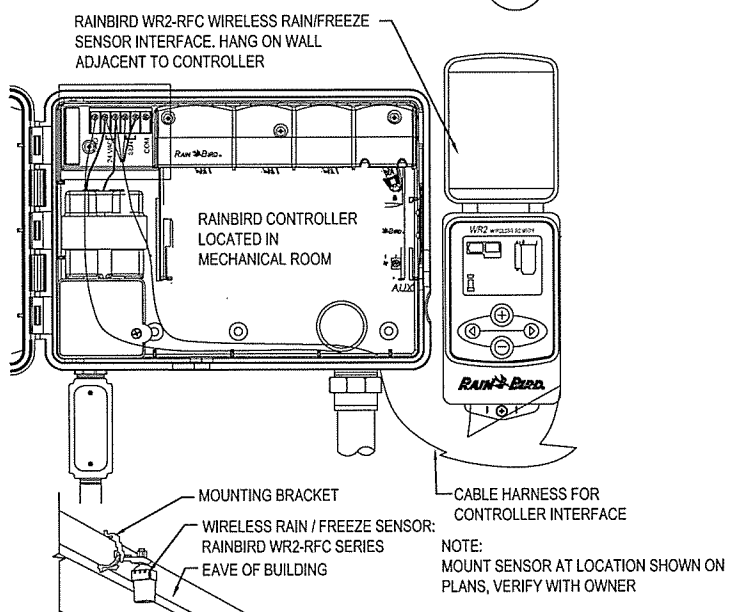
G MANUAL DRAIN VALVE
L1501 SCALE: N.T.S.



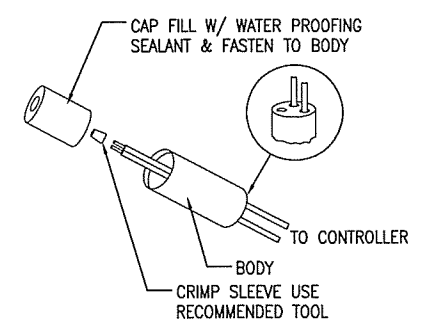
H CONTROLLER & VALVES
L1501 SCALE: N.T.S.



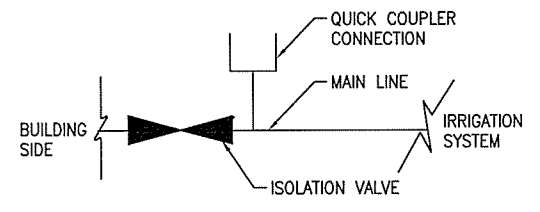
I REDUCED PRESSURE BACKFLOW PREVENTER
L1501 SCALE: N.T.S.



J RAIN/FREEZE SENSOR
L1501 SCALE: N.T.S.



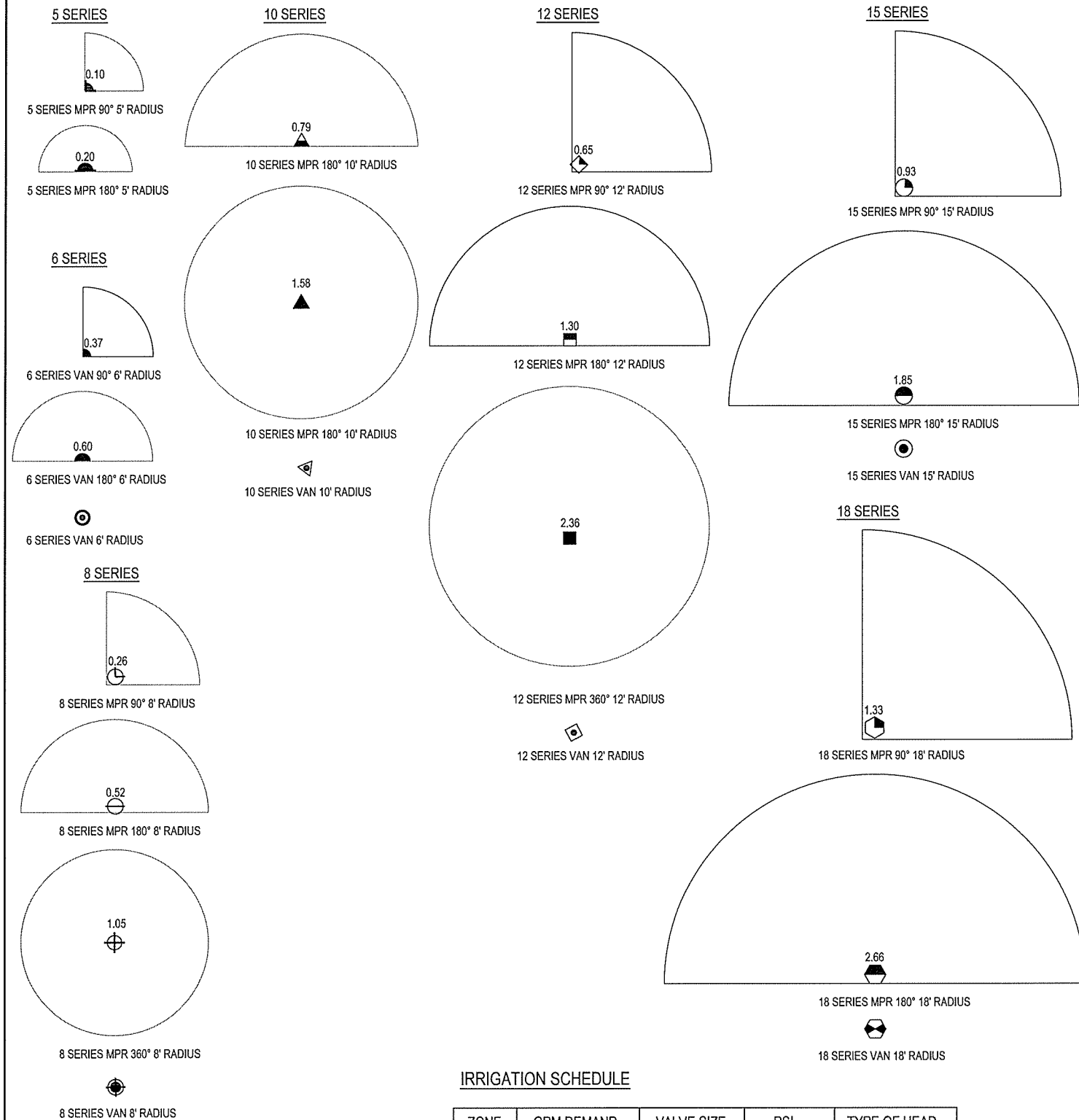
K WIRE CONNECTION
L1501 SCALE: N.T.S.



L AIR BLOW OUT VALVE
L1501 SCALE: N.T.S.

NOTE:
1. USE RAINBIRD ST-03 GRAY/PT-55 OR EQUIVALENT

IRRIGATION LEGEND



IRRIGATION SCHEDULE

ZONE	GPM DEMAND	VALVE SIZE	PSI	TYPE OF HEAD
TURF ZONES				
T1	34.46	1 1/2"	30 PSI	SPRAY
T2	23.93	1 1/2"	30 PSI	SPRAY
T3	34.49	1 1/2"	30 PSI	SPRAY
SHRUB ZONES				
S1	14.91	1"	30 PSI	SPRAY
S2	34.14	1 1/2"	30 PSI	SPRAY
S3	19.35	1"	30 PSI	SPRAY

GENERAL IRRIGATION NOTES:

THESE NOTES ARE PRESENTED AS A "SUMMARY" OF THE WRITTEN SPECIFICATIONS ISSUED FOR THE PROJECT. REFER TO THE WRITTEN SPECIFICATIONS FOR ADDITIONAL DETAIL AND FULL PROJECT REQUIREMENTS.

- THE IRRIGATION SYSTEM IS DESIGNED USING RAINBIRD INC. COMPONENTS AS A BASIS OF DESIGN. OTHER MANUFACTURER'S ARE ACCEPTABLE AS LONG AS THE SYSTEM PROVIDES 100% COVERAGE AND WORKS PROPERLY. THE IRRIGATION SUBCONTRACTOR IS RESPONSIBLE FOR ENSURING THE PROPER FUNCTIONING OF ALL ASPECTS OF THE SYSTEM. ANY REQUIRED CHANGES ARE TO BE REPORTED TO THE CONTRACTOR AND THE IRRIGATION DESIGNER FOR APPROVAL.
- THE IRRIGATION SYSTEM DESIGN IS BASED ON 70 PSI STATIC PRESSURE (PSI) AND MAXIMUM FLOW OF 40 GALLONS PER MINUTE (GPM) WITH A MINIMUM OF 30 PSI AT THE LAST HEAD IN EACH ZONE. THE IRRIGATION SUBCONTRACTOR SHALL VERIFY THE PRESSURE AND FLOW PRIOR TO COMMENCEMENT OF CONSTRUCTION. REPORT TO THE CONTRACTOR ANY DIFFERENCES BETWEEN THE PRESSURE INDICATED AND THE ACTUAL PRESSURE READING AT THE POINT OF CONNECTION.
- THE PIPE ROUTING SHOWN IS DIAGRAMMATIC ONLY. ALL PIPING, VALVES, HEADS, ETC SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. PRESSURE LOSS CALCULATIONS ARE BASED ON THE PIPE ROUTING AS SHOWN. SIGNIFICANT DEVIATIONS FROM THE ROUTING SHOWN SHOULD BE AVOIDED.
- DO NOT WILLINGLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE DIMENSIONS OF THE CONSTRUCTED AREAS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE IRRIGATION DESIGN OR CHANGES HAVE OCCURRED IN THE SITE PLAN. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER AND THE CONTRACTOR IMMEDIATELY. SHOULD THE SUBCONTRACTOR PROCEED WITH THE INSTALLATION WITHOUT NOTIFYING THE IRRIGATION DESIGNER AND GENERAL CONTRACTOR, THE IRRIGATION SUBCONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL REVISIONS / RECONSTRUCTION NECESSARY.
- IT IS THE RESPONSIBILITY OF THE IRRIGATION SUBCONTRACTOR TO FAMILIARIZE HIMSELF / HERSELF WITH THE SITE, ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, AND INSTALLED UTILITIES. COORDINATE WORK WITH THE CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES UNDERNEATH PAVEMENT AND THROUGH WALLS.
- DUE TO THE SCALE OF THE DRAWING, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, JOINTS, ETC. WHICH MAY BE REQUIRED. THE SUBCONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS/HER WORK AND PLAN HIS/HER WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC. AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. ALL WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM COMPONENTS, LANDSCAPE PLANTING, AND ARCHITECTURAL FEATURES.
- FLUSH ALL LINES AND HEADS PRIOR TO INSTALLING NOZZLES. ADJUST NOZZLE SPRAY ARC AND RADIUS FOR OPTIMUM PERFORMANCE TO PREVENT OVER SPRAY ONTO PAVED SURFACES OR FACE OF BUILDING AS MUCH AS POSSIBLE TO FIT THE SITE CONDITIONS. THROTTLE FLOW CONTROL AT EACH VALVE FOR OPTIMUM OPERATING PRESSURE FOR EACH ZONE.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISHED GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED.
- WHEN VERTICAL OBSTRUCTIONS (POLES, SIGNS, TREES, HYDRANTS, ETC) INTERFERE WITH THE SPRAY PATTERN OF THE HEADS SO AS TO PREVENT PROPER COVERAGE, THE SUBCONTRACTOR SHALL FIELD ADJUST THE SPRINKLER SYSTEM BY INSTALLING A HEAD OR HEADS WITH THE APPROPRIATE ARC AT THE SIDES OF THE OBSTRUCTION SO AS TO PROVIDE PROPER COVERAGE. ALL ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST.
- USE TEFLON TAPE ON ALL MALE PIPE THREADS ON PVC PIPE, SWING JOINTS, AND VALVE ASSEMBLIES.
- 14 GA. COPPER WIRE IS TO BE INSTALLED AS A TRACE WIRE ALONG ALL MAIN LINES THROUGHOUT THE IRRIGATION SYSTEM.
- TRENCHES FOR IRRIGATION LINES SHALL BE PLACED A MINIMUM OF 2' AWAY FROM ALL BUILDINGS WHERE LATERAL LINES ARE SHOWN ADJACENT TO BUILDINGS.
- IRRIGATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN SO AS TO PROVIDE POSITIVE DRAINAGE OF IRRIGATION MAIN DURING WINTER MONTHS, OR PROVIDE BLOWOUT ASSEMBLY. INSTALLATION SHALL BE PER DETAIL.
- ALL LATERAL LINES SHALL BE EQUIPPED WITH AUTOMATIC DRAIN VALVES AT LOW POINTS PER DETAIL.
- ALL ZONE VALVE AND CONTROLLER WIRES ARE TO BE PLACED IN PVC CONDUIT SLEEVES WHILE UNDER PAVING. ROUTING OF CONTROLLER WIRES TO THE ZONE VALVES IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR.
- ALL BELOW GRADE LOW VOLTAGE WIRING CONNECTIONS FROM THE CONTROLLER TO THE ZONE VALVES SHALL BE INSTALLED PER DETAIL.
- THRUST BLOCKING SHALL BE APPLIED WHERE NECESSARY.
- INSTALL VALVE BOXES 18-INCHES FROM AND PERPENDICULAR TO WALKS, CURBS, BUILDING, OR LANDSCAPE FEATURES. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE INSTALLED A MINIMUM OF 18-INCHES APART.
- SET IRRIGATION CONTROLLER TO OPERATE THE SYSTEM BETWEEN THE APPROXIMATE HOURS OF 3AM AND 7AM, AS DETERMINED BY THE OWNER
- 120-VOLT ELECTRICAL POWER AT THE CONTROLLER SHALL BE PROVIDED BY OTHERS. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE POWER PROVIDED TO THE CONTROLLER. CIRCUIT PANEL AND CONTROLLER TO BE LOCATED IN STORAGE ROOM. EXACT PLACEMENT TO BE COORDINATED WITH OWNER'S REPRESENTATIVE. LOCATIONS ARE TO BE COORDINATED WITH THE AHTD REPRESENTATIVES.
- PROVIDE AS-BUILT DRAWINGS PER THE WRITTEN SPECIFICATIONS.
- REFER TO THE WRITTEN SPECIFICATIONS FOR COMPLETE SYSTEM DESCRIPTION AND ADDITIONAL INFORMATION.
- MAIN LINES ARE TO BE SCHEDULE 40 PVC INSTALLED AT A MINIMUM OF 24 INCHES BELOW GRADE.
- LATERAL LINES ARE TO BE CLASS 200 PVC INSTALLED AT A MINIMUM OF 12 INCHES BELOW GRADE.
- MINIMUM PIPE SIZE FOR LATERALS IS 1 INCH.
- PROVIDE 100% COVERAGE OF ALL REQUIRED IRRIGATED AREAS SHOWN. FIELD ADJUST AND PROVIDE ADDITIONAL HEADS IF REQUIRED TO ACHIEVE 100% COVERAGE.
- SLEEVE ALL LINES AND WIRING UNDER PAVING AND SIDEWALKS WITH SCHEDULE 40 PVC. PROVIDE COATED CONDUCTIVE TAPE OVER THE SLEEVE. BURIED DEPTH SHALL BE COORDINATED. PREPRINTED WARNING TAPE "CAUTION IRRIGATION LINE BURIED BELOW" OR AS OTHERWISE APPROVED WARNING. PVC SCH 40 SLEEVE CAPS SEALED WITH PIPE JOINT CEMENT ALONG WITH PULL STRING. SLEEVES FOR PIPING ARE TO BE TWO TIMES LARGER THAN THE PIPE BEING SLEEVED.
- INSTALL THRUST BLOCKS AT ALL TEES AND ELBOWS ALONG THE MAIN LINE.
- HAND DIG TRENCHES FOR PIPE WITHIN THE DRIP LINE OF EXISTING TREES TO AVOID DAMAGING THE TREE'S ROOT SYSTEM
- DRAIN THE SYSTEM MAINLINES PRIOR TO THE BEGINNING OF THE WINTER FREEZING TEMPERATURES.

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

IRREGISTRATION SCHEDULE AND NOTES

JOSEPH S. [Signature]
 Registered Architect
 No. 2365
 4-15

Leidos Engineering LLC
 No. C-255
 ARKANSAS

DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	REV
L1502	0
36 OF 114	

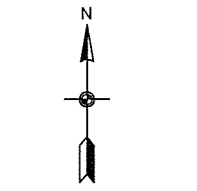
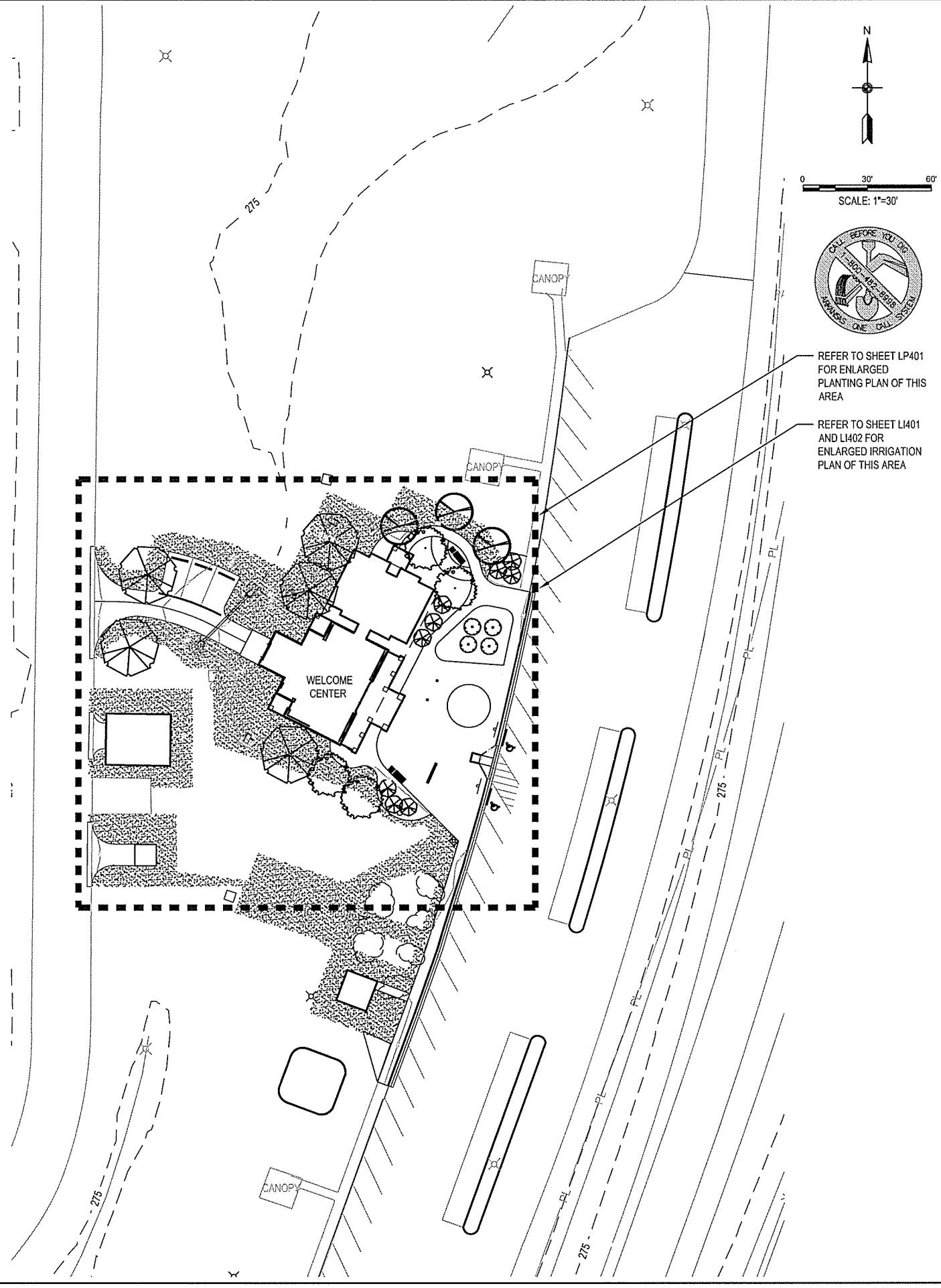
NOTED SUMMARY OF WRITTEN SPECIFICATIONS FOR ALL PLANTING:

REFER TO WRITTEN SPECIFICATIONS FOR ADDITIONAL DETAIL AND FULL PROJECT REQUIREMENTS.

1. THE LOCATIONS OF THE PLANTS SHOWN ON THE PLANS ARE APPROXIMATE. THE FINAL LOCATIONS MAY BE ADJUSTED TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, AS DIRECTED OR APPROVED BY THE OWNER'S REPRESENTATIVE.
2. THE QUANTITIES ON THE PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND THE GRAPHIC REPRESENTATIONS ON THE DRAWINGS TAKE PRECEDENT. VERIFY INDICATED QUANTITIES AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
3. NO SUBSTITUTIONS AS TO SIZE, TYPE, SPACING, QUANTITY OR QUALITY OF PLANT MATERIAL SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF BOTH THE OWNER'S REPRESENTATIVE AND THE PROJECT LANDSCAPE ARCHITECT. CHANGES IN PLANT MATERIAL MAY CONSTITUTE PLAN RE-APPROVAL.
4. PLANTS SHALL BE SUPPLIED AT THE SIZES SPECIFIED ON THE DRAWINGS. THE SIZES SHOWN ARE THE MINIMUM REQUIRED FOR EACH CATEGORY (HEIGHT, SPREAD, CALIPER, CONTAINER SIZE ETC.). WHEN A RANGE OF SIZE IS GIVEN, 75% OF THE PLANTS SUPPLIED MUST MEET THE MAXIMUM RANGE SIZE AND 25% OF THE PLANTS SUPPLIED SHALL BE THE MINIMUM RANGE SIZE SPECIFIED. THE PLANTS SUPPLIED MUST CONFORM TO ALL OF THE MINIMUM DIMENSIONS INDICATED. PLANTS OF LARGER SIZE MAY BE USED IF ACCEPTABLE TO THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST AND IF SIZE OF CONTAINER OR ROOT BALLS, HEIGHT, AND SPREAD ARE INCREASED PROPORTIONATELY IN ACCORDANCE WITH ANSI Z-60.1, 2004 EDITION. ALL OTHER QUALITY REQUIREMENTS OF THE PLANT MATERIAL MUST ALSO BE ADHERED TO.
5. ALL PLANTS MUST BE NURSERY GROWN, AS-SPECIFIED IN THE MATERIALS SCHEDULE. ALL TREES SHALL COMPLY WITH ANSI Z-60.1, 2004 EDITION. ALL PLANTS SHALL BE HIGHEST QUALITY, FIRST CLASS REPRESENTATIVES OF THEIR SPECIES. SECONDS, CULLS, OR PARK GRADE MATERIAL WILL BE REJECTED.
6. CALIPER SIZE IS NOT TO BE REDUCED. CALIPER MEASUREMENTS SHALL BE TAKEN IN ACCORDANCE WITH ANSI STANDARDS.
7. ALL SHADE TREES MUST BE STRAIGHT TRUNKED, HAVE A STRONG CENTRAL LEADER, FULL HEADED, AND MEET THE MINIMUM REQUIREMENTS. TREES WITH "Y" SHAPE ARE NOT ACCEPTABLE UNLESS THAT SHAPE IS NATURAL TO THE GROWTH HABIT OF THE SPECIES. TREES THAT HAVE BEEN FRESHLY PRUNED TO MEET THESE SPECIFICATIONS SHALL BE REJECTED.
8. THE PLANT'S VEGETATIVE CANOPY SHOULD BE MOSTLY SYMMETRICAL AND FREE OF LARGE VOIDS OR FLAT SURFACE AREAS.
9. ALL SHADE TREES SHALL HAVE A MINIMUM OF (6") CLEAR TRUNK UNLESS OTHERWISE NOTED ON PLANS OR PLANT LISTS.
10. TREES AND SHRUBS MOVED DURING PERIODS OF HIGH TRANSPIRATION SHALL BE SPRAYED WITH AN ANTI-DESSICANT PRIOR TO MOVING. APPLY AND REMOVE ANTI-DESSICANTS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
11. TREES SHALL BE STAKED AND GUYED AS DETAILED. STAKE AND GUYED MATERIALS SHALL BE REMOVED BY THE LANDSCAPE SUBCONTRACTOR SIX (6) MONTHS AFTER FINAL ACCEPTANCE.
12. ALL PLANTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE AT ANY TIME PRIOR TO FINAL ACCEPTANCE. REJECTED PLANTS SHALL BE REPLACED IMMEDIATELY AT NO ADDITIONAL COST.
13. PRIOR TO COMMENCEMENT OF INSTALLATION, THE LANDSCAPE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES AND SHALL AVOID DAMAGING UTILITIES DURING INSTALLATION. ANY UTILITIES DAMAGED DURING INSTALLATION SHALL BE REPAIRED BY THE LANDSCAPE SUBCONTRACTOR TO THE SATISFACTION OF THE APPROPRIATE UTILITY COMPANY AND THE GENERAL CONTRACTOR.
14. ALL PLANT BEDS SHALL BE THOROUGHLY ROTO-TILLED A MINIMUM OF TWELVE INCHES (12") PRIOR TO PLANT PLACEMENT. AMENDMENTS, IF REQUIRED BASED ON SITE-SPECIFIC SOIL TEST RESULTS, SHALL BE THOROUGHLY TILLED INTO THE SOIL ACCORDING TO THE TEST RESULT RECOMMENDATIONS.
15. NO PLANTS SHALL BE INSTALLED IN POOR DRAINAGE CONDITIONS. THE LANDSCAPE SUBCONTRACTOR IS RESPONSIBLE FOR TESTING SUSPECT PLANT PITS PRIOR TO PLANT INSTALLATION. REFER TO THE LANDSCAPE SPECIFICATIONS FOR PLANT PIT TESTING PROCEDURES.
16. ALL PLANTS SHOULD BE PRUNED OF BROKEN AND DEAD WOOD AS NECESSARY PRIOR TO INSTALLATION. REMOVE NO MORE THAN 1/3 OF THE BRANCHING.
17. PRE-EMERGENT HERBICIDES, TREFLAN, EPTAM, PREEN, OR APPROVED EQUAL, SHALL BE APPLIED TO ALL PLANTING BEDS PRIOR TO MULCHING. APPLY AT MANUFACTURERS RATES AND RECOMMENDATIONS.
18. APPLY ORGANIC ROOT STIMULATOR, CONTAINING MYCORRHIZAE, TO ALL PLANTS PRIOR TO BACKFILLING. APPLY AT MANUFACTURERS RATES AND RECOMMENDATIONS. LANDSCAPE SUBCONTRACTOR TO SUBMIT SAMPLES OF ROOT STIMULATOR FOR APPROVAL PRIOR TO USE.
19. THE LANDSCAPE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PLANT INSTALLATIONS UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE AND THE BUILDING TURNED OVER TO THE OWNER. MAINTENANCE SHALL INCLUDE RE-MULCHING, WATERING, WEEDING, APPLICATIONS OF HERBICIDES, FUNGICIDES, INSECTICIDES AND PESTICIDES AS NECESSARY. MAINTENANCE SHALL INCLUDE ALL PLANTINGS, TREES, SHRUBS, GROUND COVERS, ANNUALS, PERENNIALS, AND SOD.
20. THE LANDSCAPE SUBCONTRACTOR SHALL GUARANTEE THAT ALL PLANTS SHALL BE IN A HEALTHY AND THRIVING CONDITION ACCORDING TO THE NATURAL GROWTH HABITS OF THE INDIVIDUAL SPECIES AT THE TIME OF THE ACCEPTANCE.

LANDSCAPE SOD NOTES

1. AREAS NOTED SOD SHALL BE SODDED WITH BERMUDA GRASS. LANDSCAPE SUBCONTRACTOR SHALL SUBMIT VENDOR CERTIFICATION FOR VERIFICATION PRIOR TO INSTALLATION.
2. FERTILIZERS FOR THE PROJECT SHALL BE AS PER THE SITE-SPECIFIC SOILS TEST RESULTS. FOR BIDDING PURPOSES ONLY, FERTILIZER SHALL BE 10-10-10 AND SHALL BE APPLIED AT A RATE OF 20 LBS / 1,000 SF.
3. SCARIFY, LOOSEN, FLOAT AND DRAG THE UPPER FOUR INCHES (4") OF SOIL TO BRING IT TO PROPER CONDITION AND GRADE PRIOR TO SODDING. REMOVE STONES LARGER THAN ONE INCH (1"), STICKS, ROOTS, RUBBISH, ETC. FINISHED GRADE SHALL BE LOOSE AND FREE DRAINING PRIOR TO SODDING.
4. INSTALL SOD PER THE WRITTEN SPECIFICATIONS. SOD MUST BE TIGHTLY BUTTED, LEAVING NO GAPS BETWEEN SOD PIECES. WATER SOIL PRIOR TO SODDING.
5. ALL SODDED AREAS MUST BE MAINTAINED BY THE LANDSCAPE SUBCONTRACTOR UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.



REFER TO SHEET LP401 FOR ENLARGED PLANTING PLAN OF THIS AREA

REFER TO SHEET LM401 AND LM402 FOR ENLARGED IRRIGATION PLAN OF THIS AREA

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

JOSEPH S. ROGERS
 REGISTERED ARCHITECT
 ARKANSAS
 No. C-255

Leidos Engineering, LLC
 No. C-255
 REGISTERED ARCHITECT
 ARKANSAS

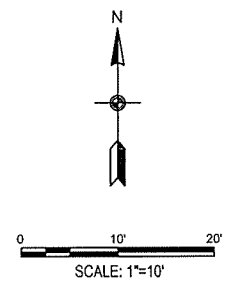
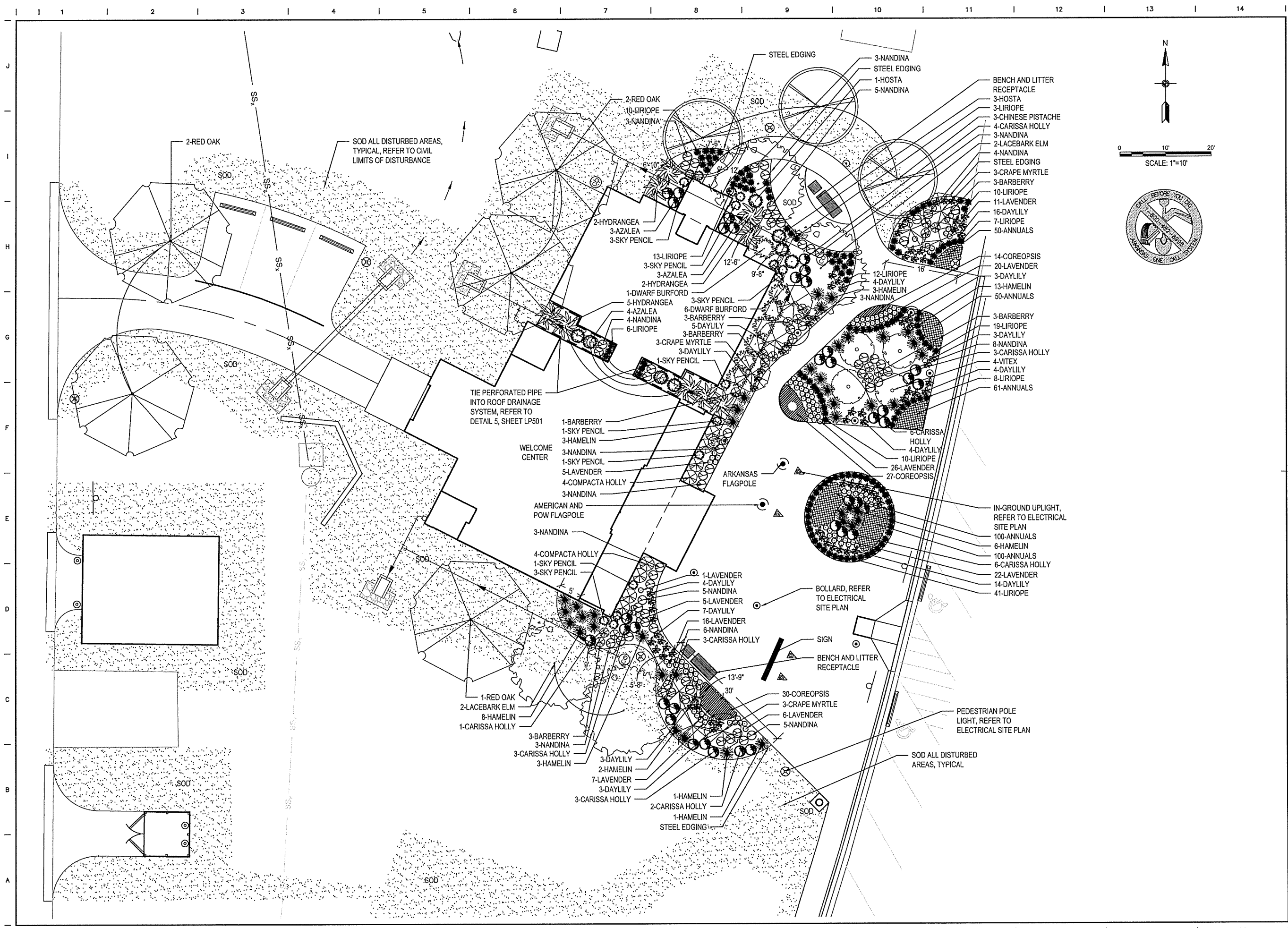
OVERALL PLANTING PLAN AND NOTES

DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	LP101
REV	0
37 OF 114	

File name: W:\P\BAR Highway Dept\313841 - AHTD>Welcome Center\03_DESIGN\01_CAD\AWC_Red River\LRPLP101.dwg
 Date: September 21, 2015 - 10:52am
 User: knowlesj

File name: W\FD\BAR Highway Dept\0313841 - AR\TD Welcome Center\20_DESIGN\20_CAD\AWC_Red River\LRPLP401.dwg
 Date: September 21, 2015 - 10:52am
 User: knozfsej



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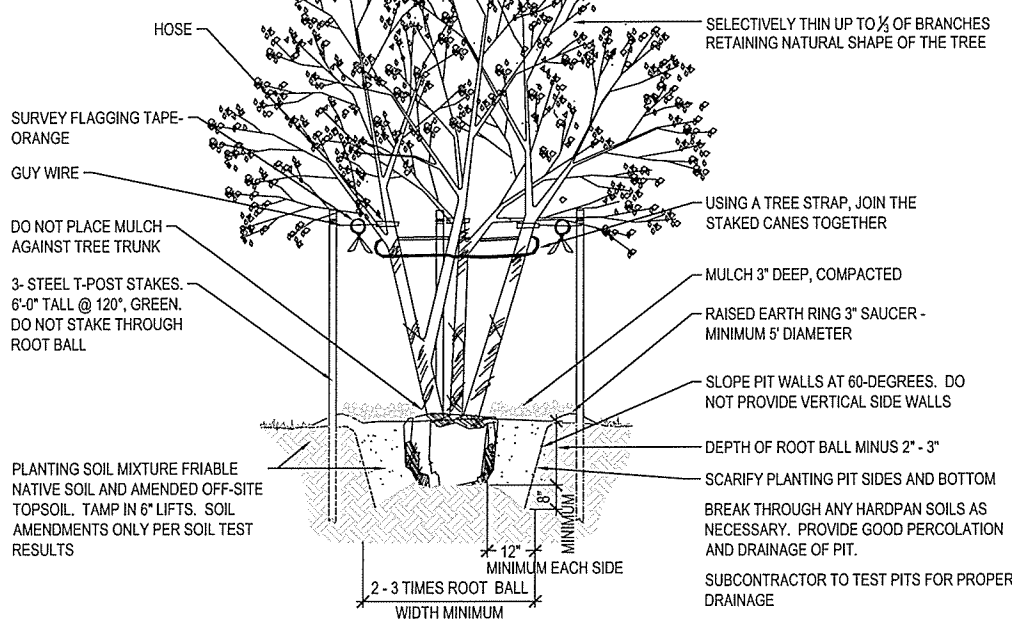
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS
 9/25/15
 PLANTING PLAN ENLARGEMENT

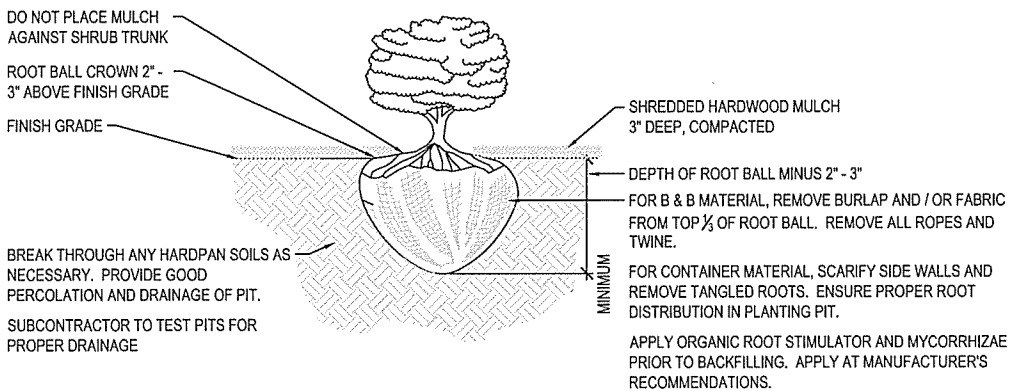
DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	LP401
REV	0
38 OF 114	

NOTE: ALL TREES SHALL BE PER ANSI STANDARDS. CRACKED OR MUSHROOMED ROOT BALLS WILL BE REJECTED.

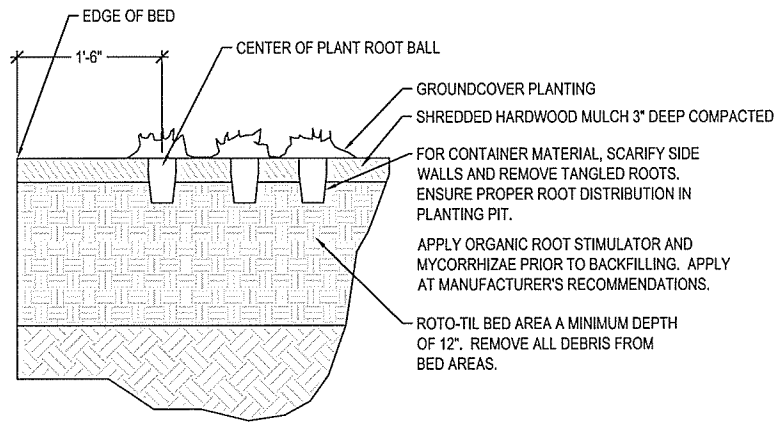
NOTE: EARTH RINGS NOT REQUIRED WHEN LOCATED IN A PLANTING BED.



1 MULTI-TRUNK TREE PLANTING
NOT TO SCALE

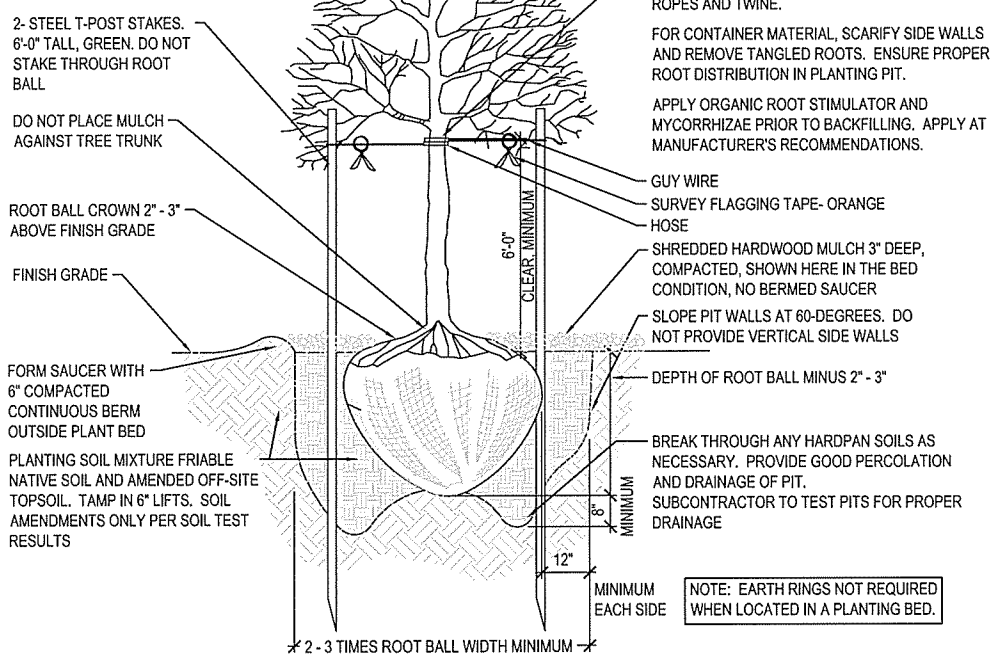


2 SHRUB / ORNAMENTAL GRASSES PLANTING
NOT TO SCALE



3 GROUND COVER PLANTING
NOT TO SCALE

NOTE: ALL TREES SHALL BE PER ANSI STANDARDS. CRACKED OR MUSHROOMED ROOT BALLS WILL BE REJECTED.



4 TREE PLANTING
NOT TO SCALE

DO NOT CUT CENTRAL LEADER TREES WITH PRUNED OR DAMAGED LEADER WILL NOT BE ACCEPTABLE. PRUNE DAMAGED OR DEAD WOOD PRIOR TO PLANTING. IMMEDIATELY SPRAY FOLIAGE WITH AN ANTI-DESSICANT

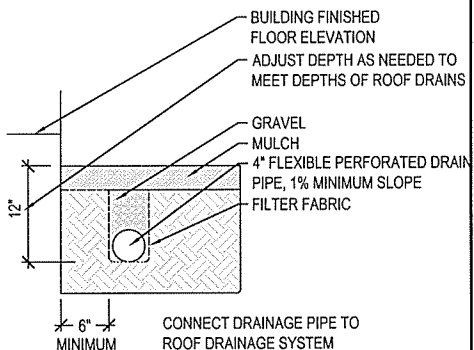
SELECTIVELY THIN UP TO 1/2 OF BRANCHES RETAINING NATURAL SHAPE OF THE TREE

FOR B & B MATERIAL, REMOVE BURLAP AND WIRE BASKET FROM TOP 1/2 OF ROOT BALL. REMOVE ALL ROPES AND TWINE.

FOR CONTAINER MATERIAL, SCARIFY SIDE WALLS AND REMOVE TANGLED ROOTS. ENSURE PROPER ROOT DISTRIBUTION IN PLANTING PIT.

APPLY ORGANIC ROOT STIMULATOR AND MYCORRHIZAE PRIOR TO BACKFILLING. APPLY AT MANUFACTURER'S RECOMMENDATIONS.

NOTE: EARTH RINGS NOT REQUIRED WHEN LOCATED IN A PLANTING BED.



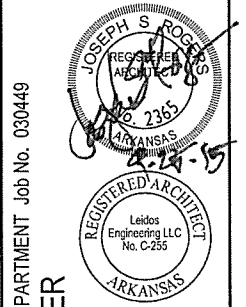
5 DRAIN
NOT TO SCALE

PLANT SCHEDULE				
QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
TREES				
9	LAGERSTROEMIA INDICA 'RED ROCKET'	RED ROCKET CRAPE MYRTLE	15 GAL., 5'-6" HT.	MULTI- TRUNK, WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, RED BLOOM
3	PISTACIA CHINENSIS	CHINESE PISTACHE	2-1/2"-3" CAL. 10'-12" HT.	SINGLE TRUNK, WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
4	ULMUS PARVIFOLIA	LACEBARK ELM	2-1/2"-3" CAL. 10'-12" HT.	SINGLE TRUNK, WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
5	QUERCUS RUBRA	NORTHERN RED OAK	2-1/2"-3" CAL. 10'-12" HT.	SINGLE TRUNK, WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
4	VITEX-AGNUS-CASTUS	VITEX OR CHASTE TREE	15 GAL., 5'-6" HT.	SINGLE TRUNK, WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
SHRUBS				
10	AZALEA GIRARD ROSE	GIRARDS AZALEA	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
16	BARBERIS THUNBERGII F. ATROPURPUREA 'ROSE GLOW'	ROSE GLOW BARBERRY	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, ROSE PINK, PURPLE, RUST
4	HOSTA 'FRANCEE'	HOSTA	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
9	HYDRANGEA MACROPHYLLA 'BLUE WAVE'	BLUE WAVE HYDRANGEA	5 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
25	ILEX CORNUTA 'CARISSA'	CARISSA HOLLY	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
7	ILEX CORNUTA 'DWARF BURFORD'	DWARF BURFORD HOLLY	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
8	ILEX CRENATA 'COMPACTA'	COMPACTA HOLLY	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
16	ILEX CRENATA 'SKY PENCIL'	SKY PENCIL HOLLY	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
61	NANDINA DOMESTICA 'FIRE POWER'	FIREPOWER NANDINA	3 GAL., 3' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, RED LEAVES IN FALL
GRASSES				
40	PENNISETUM ALOPECUROIDES 'HAMELIN'	HAMELIN GRASS	3 GAL., AS SHOWN	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, BLOOM COLOR IS WHEAT
GROUND COVER				
73	HERMEOCALIS 'STELLA DE ORO'	STELLA DE ORO DAYLILY	1 GAL., 1' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, YELLOW FLOWERS
139	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LIRIOPE	1 GAL., 2.5' O.C.	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE
PERENNIALS				
71	COREOPSIS VERTICILLATA 'MOONBEAM'	COREOPSIS	4" POT	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, YELLOW FLOWERS
119	LAVANDULA AUGUSTIFOLIA 'HIDCOTE'	LAVENDER	4" POT	WELL-BRANCHED, MATCHING IN QUALITY, FORM AND SIZE, LAVENDER FLOWERS
SEASONAL COLOR - ANNUALS				
372	ANNUALS	VERIFY WITH OWNER	4" POT, 8" O.C.	MIXED COLORED FLOWERS



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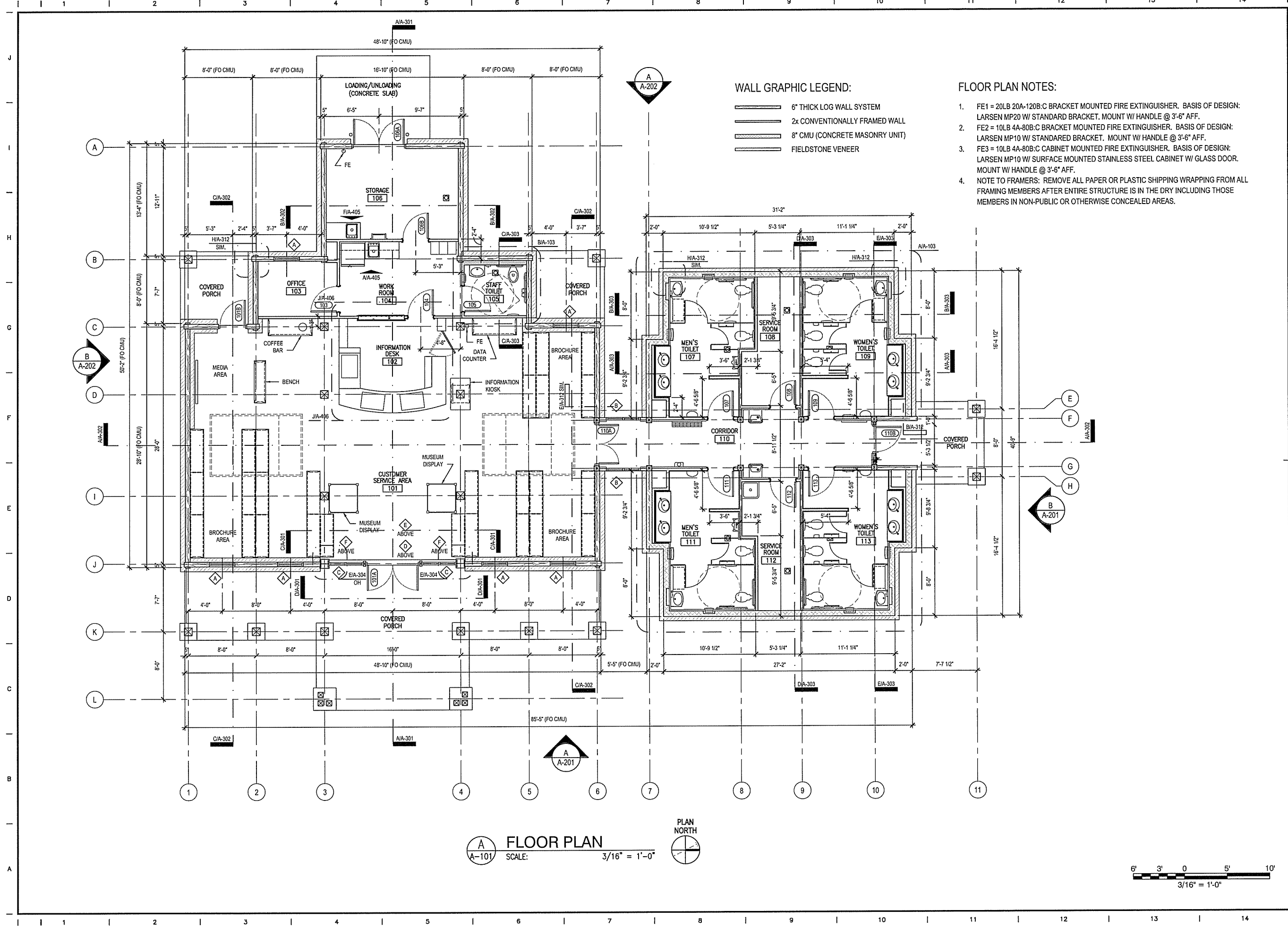
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
RED RIVER

DESIGNED BY	DK
DRAWN BY	DK
CHECKED BY	DS
APPROVED BY	JR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	LP501
REV	0
39 OF 114	

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User: knowltonj

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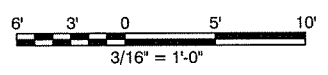
WALL GRAPHIC LEGEND:

- 6" THICK LOG WALL SYSTEM
- 2x CONVENTIONALLY FRAMED WALL
- 8" CMU (CONCRETE MASONRY UNIT)
- FIELDSTONE VENEER

FLOOR PLAN NOTES:

1. FE1 = 20LB 20A-120B:C BRACKET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP20 W/ STANDARD BRACKET. MOUNT W/ HANDLE @ 3'-6" AFF.
2. FE2 = 10LB 4A-80B:C BRACKET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP10 W/ STANDARD BRACKET. MOUNT W/ HANDLE @ 3'-6" AFF.
3. FE3 = 10LB 4A-80B:C CABINET MOUNTED FIRE EXTINGUISHER. BASIS OF DESIGN: LARSEN MP10 W/ SURFACE MOUNTED STAINLESS STEEL CABINET W/ GLASS DOOR. MOUNT W/ HANDLE @ 3'-6" AFF.
4. NOTE TO FRAMERS: REMOVE ALL PAPER OR PLASTIC SHIPPING WRAPPING FROM ALL FRAMING MEMBERS AFTER ENTIRE STRUCTURE IS IN THE DRY INCLUDING THOSE MEMBERS IN NON-PUBLIC OR OTHERWISE CONCEALED AREAS.

FLOOR PLAN
 SCALE: 3/16" = 1'-0"
 PLAN NORTH



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

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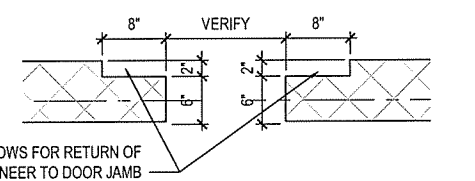
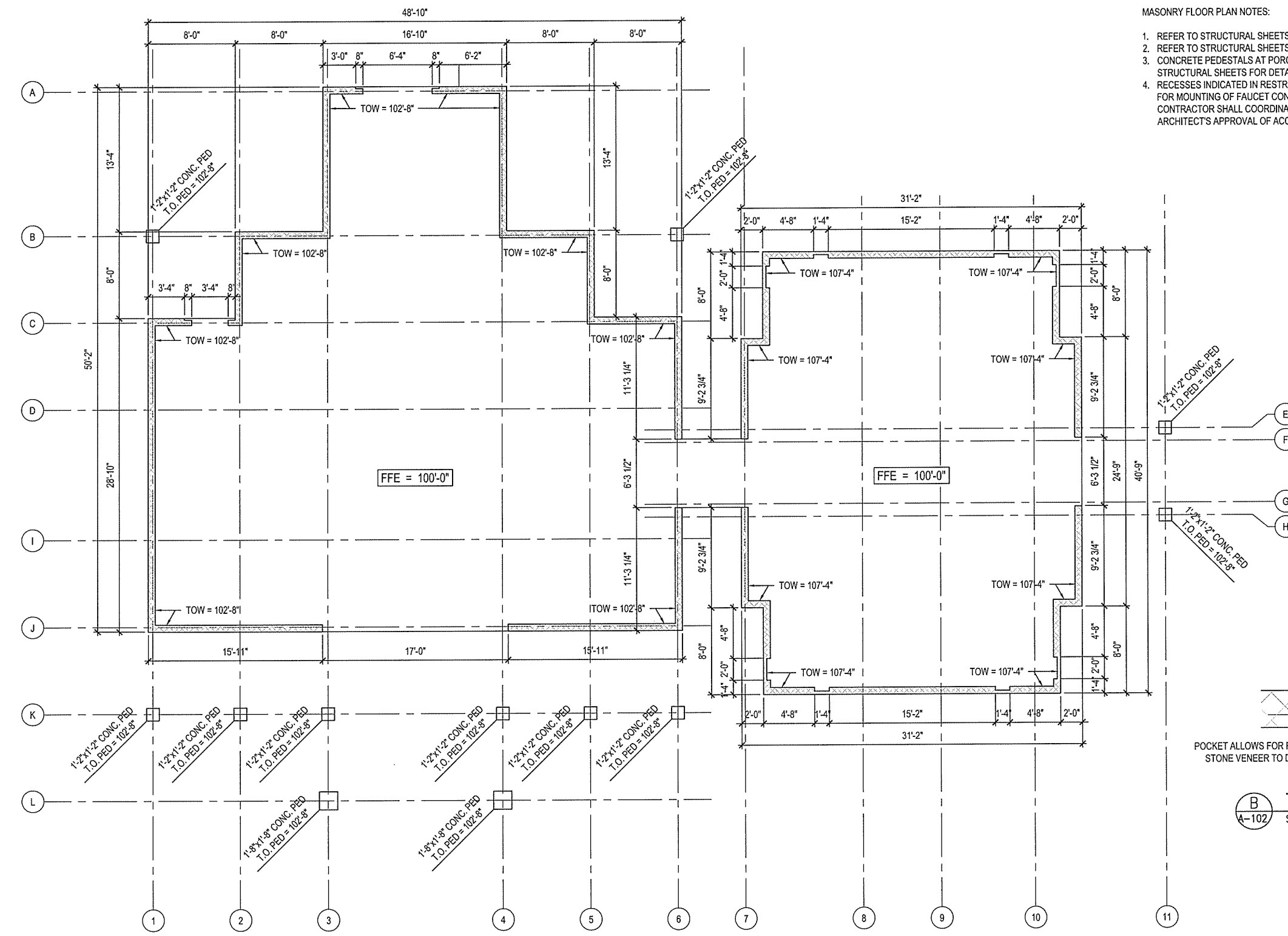
DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER 313841
 SHEET **A-101** REV

FLOOR PLAN

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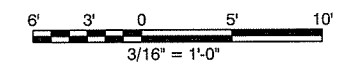
MASONRY FLOOR PLAN NOTES:

1. REFER TO STRUCTURAL SHEETS FOR REINFORCING REQUIREMENTS.
2. REFER TO STRUCTURAL SHEETS FOR STANDARD UNIT MASONRY DETAILS.
3. CONCRETE PEDESTALS AT PORCH AREAS ARE INDICATED FOR CLARITY ONLY. REFER TO STRUCTURAL SHEETS FOR DETAILS.
4. RECESSES INDICATED IN RESTROOM BLOCK ARE INTENDED TO PROVIDE CLEARANCE FOR MOUNTING OF FAUCET CONTROLS AND TOILET ACCESSORIES. GENERAL CONTRACTOR SHALL COORDINATE FINAL DIMENSIONS OF RECESSES BASED ON ARCHITECT'S APPROVAL OF ACCESSORIES TO BE INSTALLED.



(B) TYPICAL DOOR OPENING
 SCALE: 1" = 1'-0"

(A) MASONRY FLOOR PLAN
 SCALE: 3/16" = 1'-0"
 PLAN NORTH



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
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REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-235
 ARKANSAS

REGISTERED ARCHITECT
 JOSEPH S. JOHNSON
 ARCHITECT
 No. 2365
 ARKANSAS

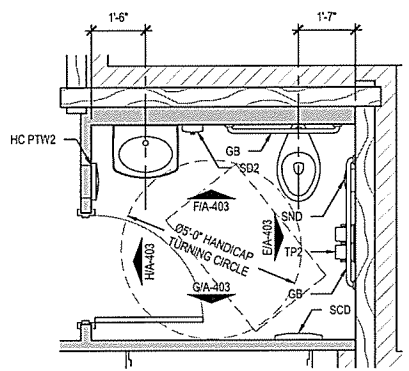
MASONRY FLOOR PLAN

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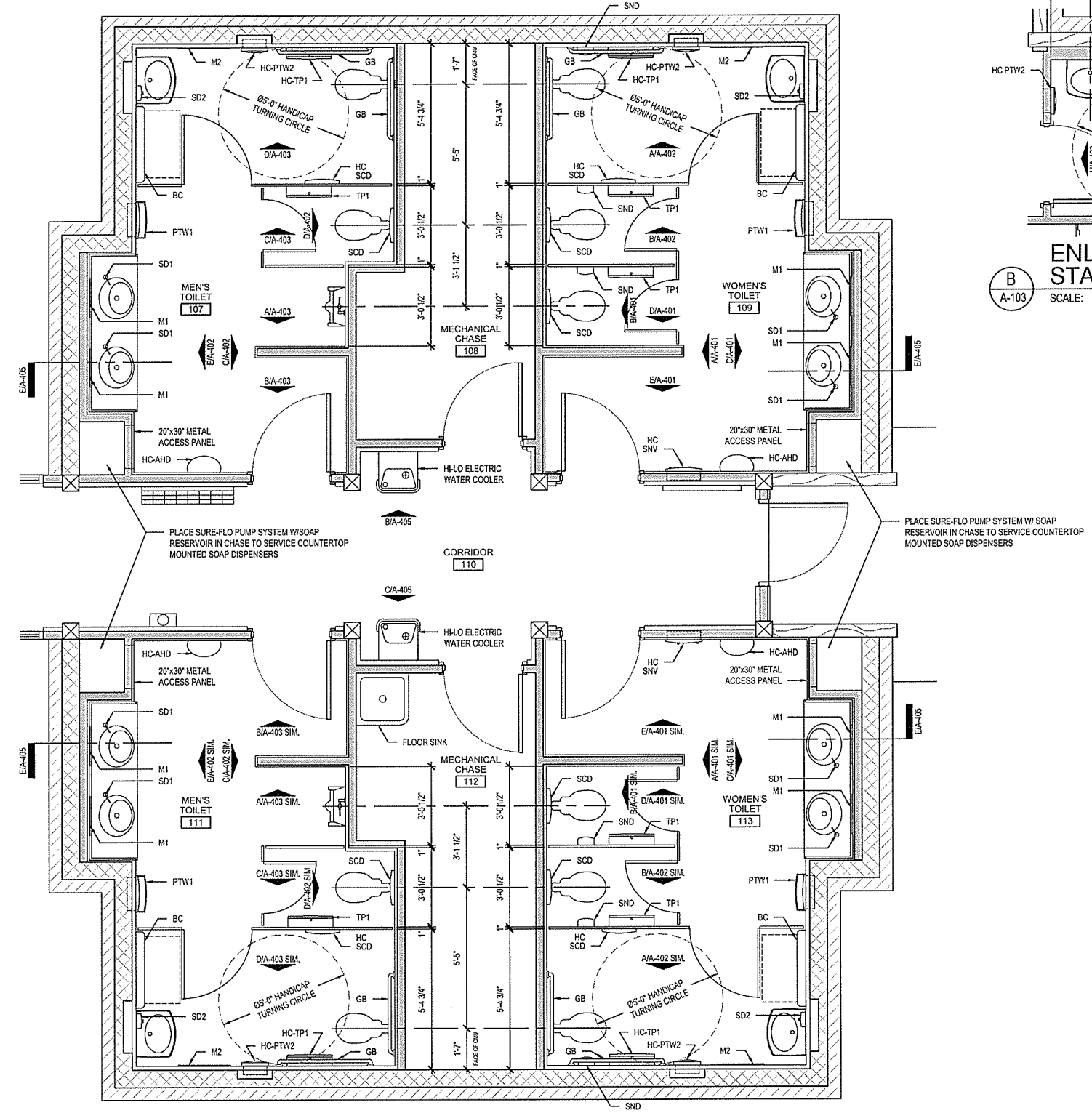
DATE	9/25/2015
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SHEET	A-102
REV	
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ENLARGED TOILET PLAN NOTES:

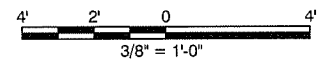
- DIMENSIONS ON THIS SHEET ARE GIVEN TO FACE OF WALL FINISH MATERIALS, NOT FACE OF STUD (UNO). WALL FINISH MATERIALS ARE ASSUMED TO BE: 1/2" TILE BACKER BOARD + 5/16" THICK TILE = 13/16" TOTAL.
- NO WALL OR CEILING FINISH IS TO BE APPLIED IN MECHANICAL CHASE 108 OR IN MECHANICAL CHASE 112.
- AUTOMATIC WATER CLOSET FLUSH SENSORS ARE TO BE LOCATED ON WALL BEHIND WATER CLOSETS, CENTERED ON FIXTURES. WALL STUD LAYOUT MUST BE ADJUSTED ACCORDINGLY. COORDINATE FRAMING WITH APPROPRIATE MECHANICAL AND ELECTRICAL TRADES AS REQUIRED.
- TOILET PARTITIONS ARE TO BE FLOOR MOUNTED, OVERHEAD BRACED, STAINLESS STEEL UNITS. PARTITIONS ARE ASSUMED TO BE 1" THICK FOR DIMENSIONING PURPOSES ON THIS SHEET. PROVIDE SOLID BLOCKING FOR ATTACHMENT OF TOILET PARTITIONS.
- LIQUID HAND SOAP DISPENSERS (SD1'S) ARE TO BE SUPPLIED BY A PUMPED SOAP SYSTEM W/ RESERVOIR TANKS LOCATED IN CHASE AT ROOMS 107, 109, 111, AND 113.
- PROVIDE SOLID BLOCKING WHERE REQUIRED FOR TOILET ACCESSORIES AND GRAB BARS.
- PARTITION DOOR INTO HC STALL TO HAVE SWING LIMITER TO PROTECT BABY CHANGING STATION FROM CONTACT DAMAGE FROM DOOR.



ENLARGED STAFF TOILET PLAN
 SCALE: 3/8" = 1'-0"



ENLARGED TOILET PLAN
 SCALE: 3/8" = 1'-0"



MARK	ITEM	MFGR	MODEL NUMBER	MOUNTING HEIGHT
TP1	TOILET PAPER HOLDER (PUBLIC RESTROOMS)	BOBRICK	B-2892	31" AFF TO TOP OF UNIT (ACCESSIBLE STALLS) 40" AFF TO TOP OF UNIT (ALL OTHER INSTALLATIONS)
TP2	TOILET PAPER HOLDER (STAFF TOILET ROOM)	BOBRICK	B-2740	19-3/4" AFF TO TOP OF UNIT
PTW1	PAPER TOWEL AND WASTE RECEPTACLE	BOBRICK	B-43944	72" AFF TO TOP OF RECESSED PORTION OF UNIT (STANDARD HEIGHT INSTALLATION)
PTW1 HC	PAPER TOWEL AND WASTE RECEPTACLE	BOBRICK	B-43944	60-1/4" AFF TO TOP OF RECESSED PORTION OF UNIT (ACCESSIBLE INSTALLATION)
PTW2 HC	PAPER TOWEL AND WASTE RECEPTACLE	BOBRICK	B-4369	51-3/4" AFF TO TOP OF RECESSED PORTION OF UNIT (ACCESSIBLE INSTALLATION)
AHD	AUTOMATIC HAND DRYER	BOBRICK	B-748	45-1/4" AFF TO ϵ BOTTOM MOUNTING SCREW (MEN'S) 43-1/4" AFF TO ϵ BOTTOM MOUNTING SCREW (WOMEN'S)
AHD HC	AUTOMATIC HAND DRYER	BOBRICK	B-748	37-1/4" AFF TO ϵ BOTTOM MOUNTING SCREW (ACCESSIBLE INSTALLATION)
SNV HC	FEMININE PRODUCTS VENDOR	BOBRICK	B-43500	51" AFF TO TOP OF RECESSED PORTION OF UNIT (ACCESSIBLE INSTALLATION)
SND	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270	27" AFF TO TOP OF UNIT
SCD	SEAT COVER DISPENSER	BOBRICK	B-4221	36" AFF TO TOP OF UNIT (IN ACCESSIBLE STALLS AND STAFF TOILET) BOTTOM OF UNIT 6" MIN. ABOVE WC (ALL OTHER LOCATIONS)
SD1	COUNTERTOP LIQUID SOAP DISPENSER	BOBRICK	B-830.12 W/ SURE-FLO PUMP SYSTEM	COUNTERTOP MOUNTED PUMPS CONNECTED TO SURE-FLO PUMP SYSTEM W/ SOAP RESERVOIR MOUNTED REMOTELY IN CHASE AT ROOMS 107, 109, 111 AND 113. TO INCLUDE ALL PUMPS, TUBING & NECESSARY ATTACHMENTS.
SD2 HC	LIQUID SOAP DISPENSER	BOBRICK	B-4112	50-7/8" AFF TO TOP OF UNIT
GB	GRAB BARS	BOBRICK	B-6806-36 B-6806-42	34" AFF TO CENTER LINE
M1	MIRROR	BOBRICK	B-2909 1836	40" AFF TO BOTTOM OF REFLECTING SURFACE; LAMINATED (LEAD TIME: 33 WORKING DAYS)
M2	MIRROR	BOBRICK	B-2909 2436	40" AFF TO BOTTOM OF REFLECTING SURFACE; LAMINATED (LEAD TIME: 33 WORKING DAYS)
BC	BABY CHANGING STATION	KOALA BEAR CARE	KB110-SSWM	48" AFF TO TOP OF UNIT

TOILET ACCESSORY NOTES:

- INDICATED TOILET ACCESSORIES ARE BASIS OF DESIGN.
- RECOMMENDED MOUNTING HEIGHTS INDICATED ARE PROVIDED AS GUIDELINES. FOLLOW MANUFACTURER'S PRINTED INSTRUCTIONS FOR ALL ACCESSIBLE INSTALLATIONS.
- REFER TO SHEET A-501 FOR HANDICAP DOORSTOP LOCATIONS.

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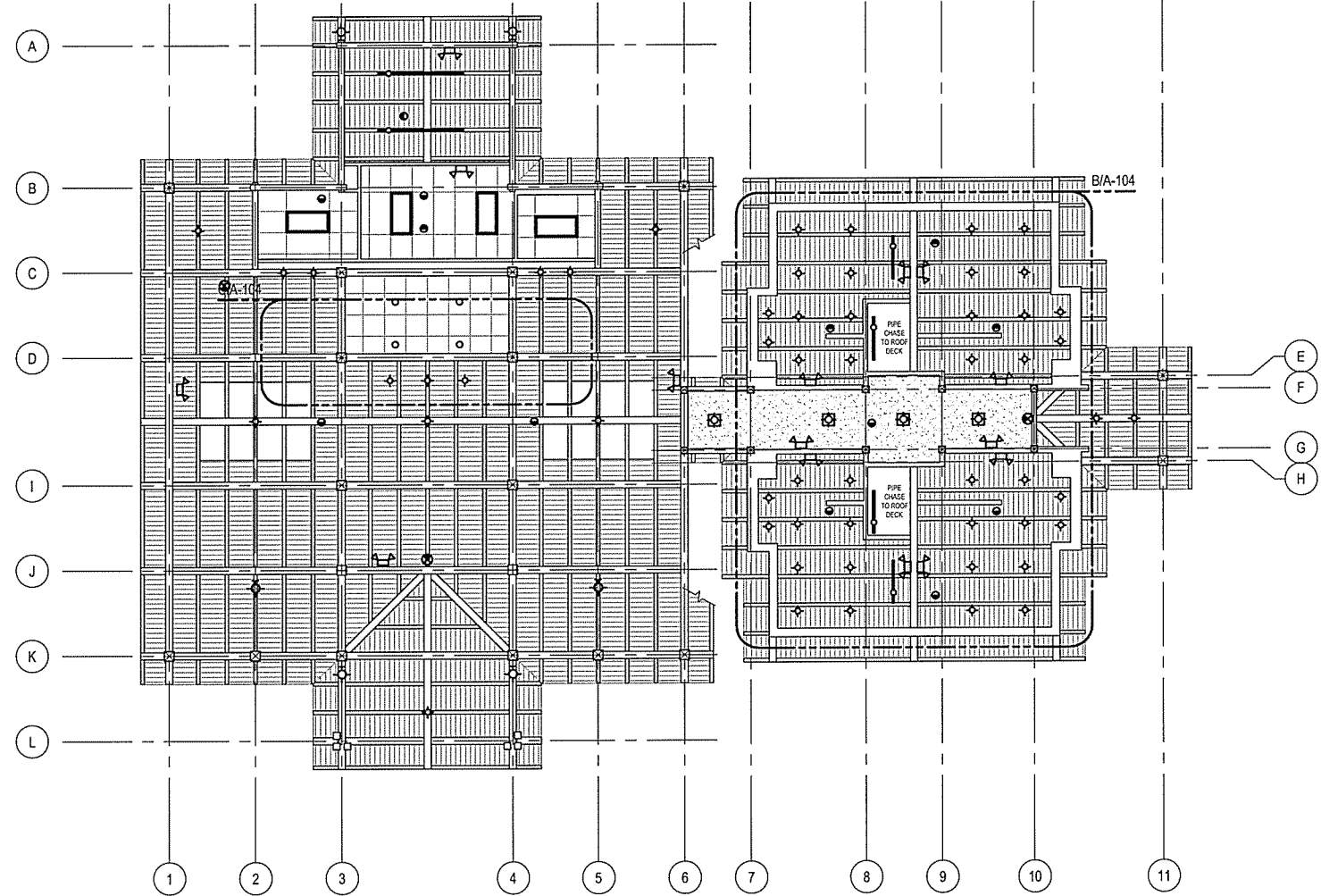
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ENLARGED TOILET PLANS

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LEIDOS PROJECT NUMBER	313841
SHEET	A-103
REV	

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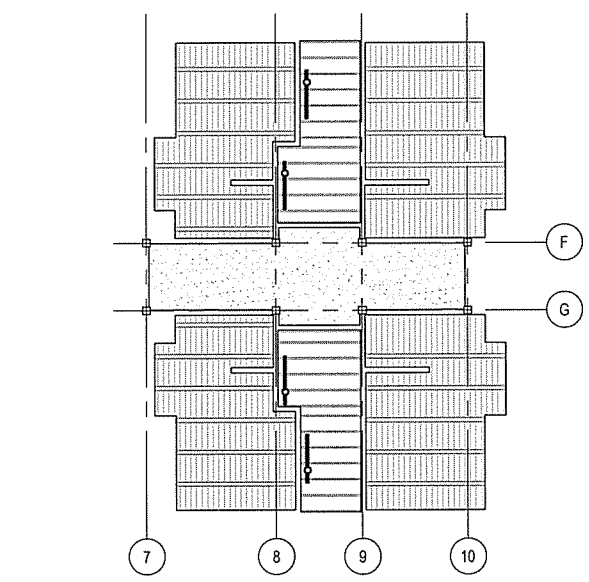


REFLECTED CEILING LEGEND

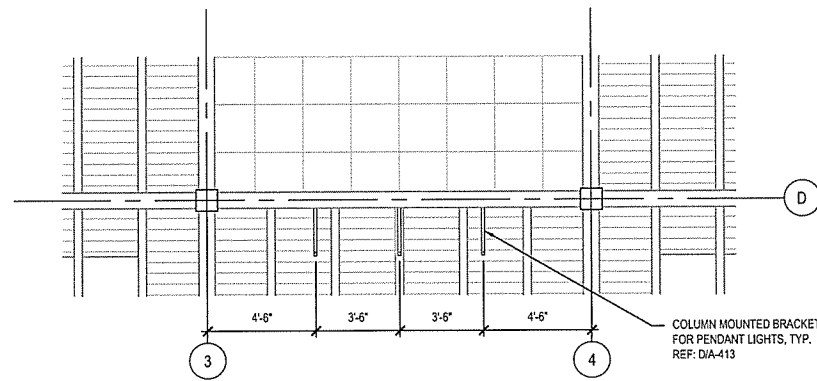
- HANGING LIGHT
- WALL MOUNTED LIGHT
- FLUORESCENT LIGHT
- TROFFER LIGHT
- WALL MOUNTED FAN
- EXIT SIGN
- ALARM

NOTE:
 1. REFER TO ELECTRICAL SHEETS FOR FIXTURE SCHEDULE INCLUDING FIXTURES AT PHOTO DISPLAY AND RECEPTION DESK TOE KICK LIGHTING.

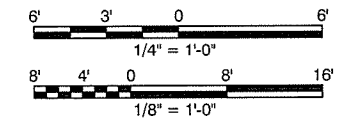
A
A-104 REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"



B
A-104 PARTIAL REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"

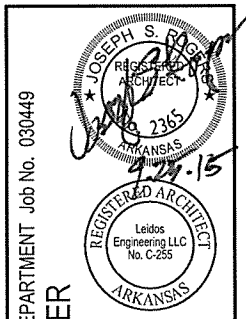


C
A-104 BRACKET LIGHTING PLAN
 SCALE: 1/4" = 1'-0"



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REFLECTED CEILING PLAN

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SHEET	A-104
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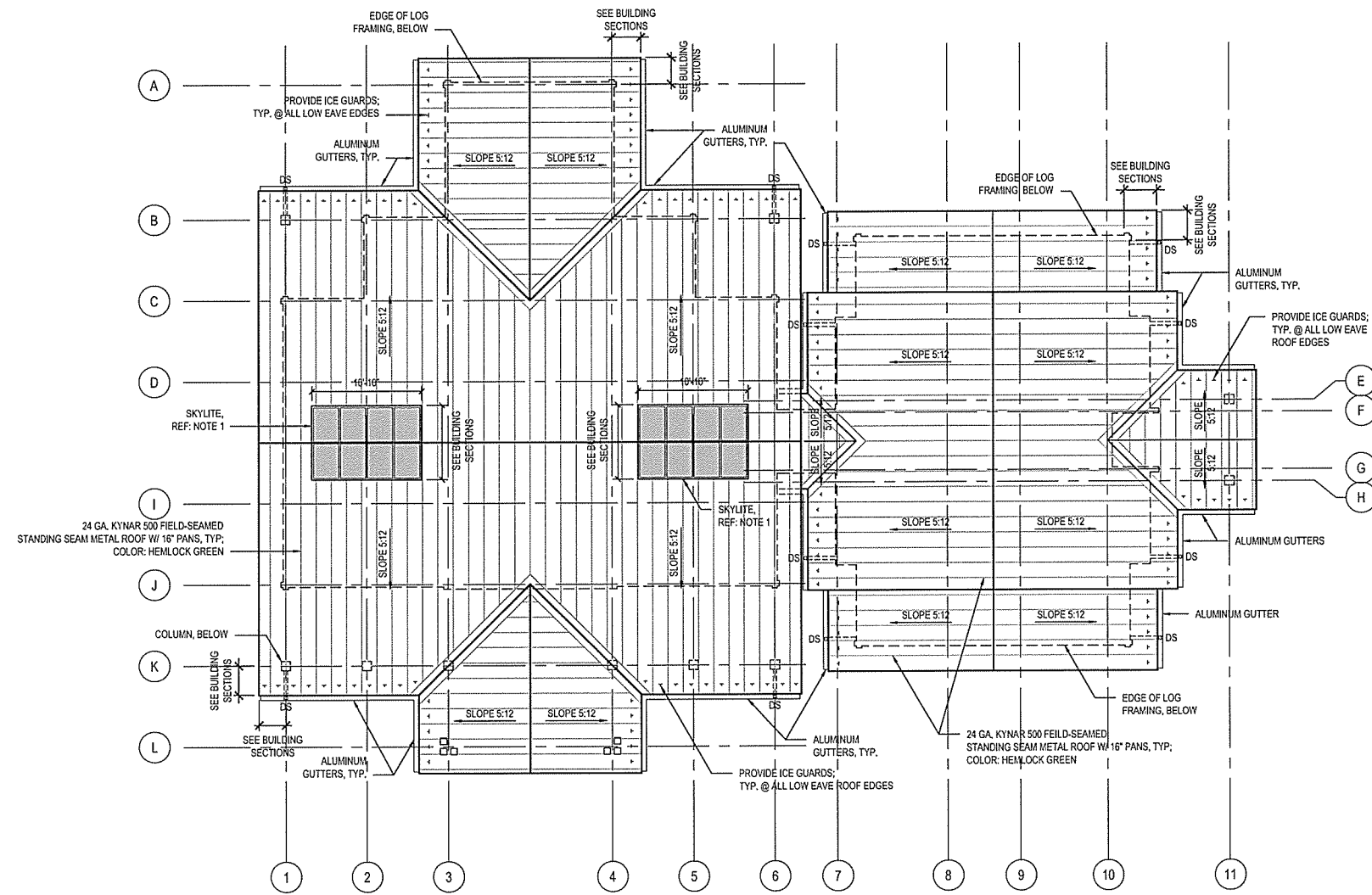
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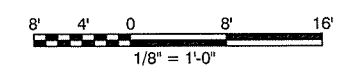
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ROOF PLAN NOTES:

1. SKYLIGHT MULLION SPACING MUST MATCH RAFTER SPACING AND ALIGN W/ RAFTERS BELOW.
2. ICE GUARDS SHALL BE ADHERED TO ROOF W/O PENETRATION OF THE ROOF PANEL. COLOR TO MATCH ROOF COLOR.
3. GUTTER AND DOWNSPOUT COLOR TO MATCH ROOF COLOR.



A ROOF PLAN
 A-105 SCALE: 1/8" = 1'-0"



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 SHEET: A-105 | REV

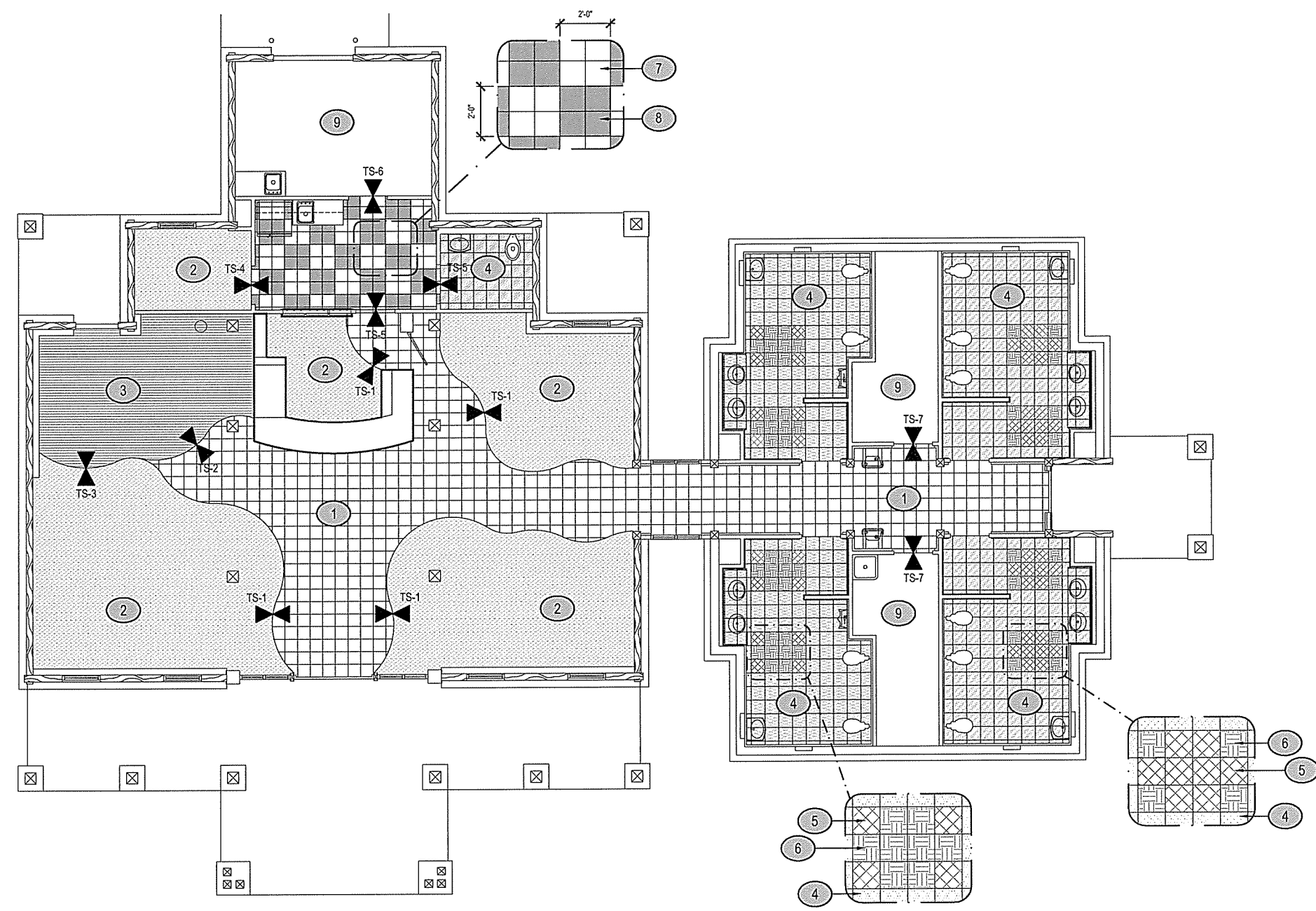
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DATE	9/25/2015
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SHEET	A-105 REV
44 OF 114	

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FLOOR FINISH MATERIALS LEGEND:

- 1 MULTI-COLOR SIMULATED SLATE, AMERICAN OLEAN KENDAL SLATE, EASDALE NEUTRAL KS502 - 12"x12" (SST-1)
- 2 COMMERCIAL BROADLOOM CARPET, MOHAWK COMMERCIAL- TEXTURED PATTERNED LOOP, EMOTIONS COLLECTION - STYLE #MC112 SMILES, COLOR #8658 EXCITABLE BROWN (CPT-1)
- 3 ENGINEERED HARDWOOD, HARTCO COMMERCIAL- PATTERN PLUS, 5000-OAK, COPPER (HNF-1)
- 4 13"x13" PORCELAIN STONE, AMERICAN OLEAN- CALAIS, MOULIN BRUN CA53 (PFT-1)
- 5 13"x13" PORCELAIN STONE, AMERICAN OLEAN- CALAIS, ROYALE BLEU CA52 (PFT-2)
- 6 13"x13" PORCELAIN STONE, AMERICAN OLEAN- CALAIS, FAYETTE ROUGE CA51 (PFT-3)
- 7 12"x12" VCT - MANNINGTON ESSENTIALS- COLOR: 123 WHEAT (VCT-1)
- 8 12"x12" VCT - MANNINGTON DESIGNER ESSENTIALS- COLOR: 295 DEEP FERN (VCT-2)
- 9 SEALED CONCRETE - SMOOTH FINISH (CONC-2)

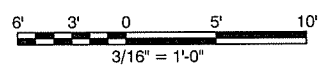
OTHER FLOOR FINISH MATERIALS:

1. GROUT: SIMULATED SLATE: 1/4" WIDE, CUSTOM BUILDING PRODUCTS- COLOR: #9 NATURAL GRAY (GT-1)
 RESTROOM TILE: 3/16" WIDE, MAPEI- COLOR: #47 CHARCOAL (GT-2)
2. SEALER: TO BE SEALED W/ WATER BASED STONE PENETRATING SEALER AS RECOMMENDED BY MANUFACTURER
 GROUT: TO BE SEALED AS RECOMMENDED BY MANUFACTURER
 CONCRETE: TO BE SEALED W/ HYDROZO ENVIROSEAL SURFACE GUARD OR APPROVED EQUAL
3. TRANSITION STRIPS: (REF: SHEET A-413)
 SIM. SLATE TO CARPET (TS-1): CERAMIC TOOL COMPANY, CTC 716 CT BRONZE
 SIM. SLATE TO HARDWOOD (TS-2): CERAMIC TOOL COMPANY, CTC 716 CT BRONZE
 CARPET TO HARDWOOD (TS-3): CERAMIC TOOL COMPANY, CTC 716 CT BRONZE
 CARPET TO VCT (TS-4): JOHNSONITE, CTA-63-H, 63 BURNT UMBER
 PORCELAIN TILE / SIM. SLATE TO VCT (TS-5): CERAMIC TOOL COMPANY, CTC RAMP BRONZE
 VCT TO SEALED CONCRETE (TS-6): JOHNSONITE, RRS-63-A, 63 BURNT UMBER
 SLATE TO SEALED CONCRETE (TS-7): JOHNSONITE, CRS-63-D, 63 BURNT UMBER

A FLOORING PLAN
 A-106 SCALE: 3/16" = 1'-0"
 PLAN NORTH

FLOORING PLAN NOTES:

1. FLOORING LAYOUT MUST BE APPROVED IN THE FIELD BY THE ARCHITECT/INTERIOR DESIGNER PRIOR TO INSTALLATION OF FLOORING MATERIALS.
2. NO THRESHOLDS AT TILE TO TILE DOORWAY TRANSITIONS. FINISHED SURFACE OF ADJACENT TILES TO BE FLUSH.
3. GROUT LINES IN WALL TILE (REFER TO SHEET A-404 FOR WALL TILE PATTERNS) MUST ALIGN WITH GROUT LINES IN FLOOR TILE.
4. FLOOR TILE SHALL BE INSTALLED PRIOR TO INSTALLATION OF ALL WOOD BASE.
5. COFFEE BAR CABINET AND COMPUTER DESK ARE TO BE CONSIDERED FURNITURE ALTHOUGH THEY ARE TO BE SECURELY ATTACHED TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND.
6. FOOT BOLTS AT DOOR 110A SHALL BE EQUIPPED WITH METALLIC RECEIVER PROPERLY INSTALLED IN TILE FLOORING.
7. CARPET SEAMING SHALL OCCUR UNDER BROCHURE RACKS TO THE EXTENT POSSIBLE. SEAMING DIAGRAM SHALL BE APPROVED BY INTERIOR DESIGNER.
8. CARPET SHALL BE GRADUALLY RAMPED UP USING JOHNSONITE SUBFLOOR LEVELER SYSTEM SO THAT THE FINISHED HEIGHT OF THE SURFACE OF THE CARPET SHALL BE EQUAL TO THE FINISHED HEIGHT OF THE ADJACENT FLOORING.



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 FLOORING PLAN

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 SCALE AS SHOWN
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 SHEET A-106 REV
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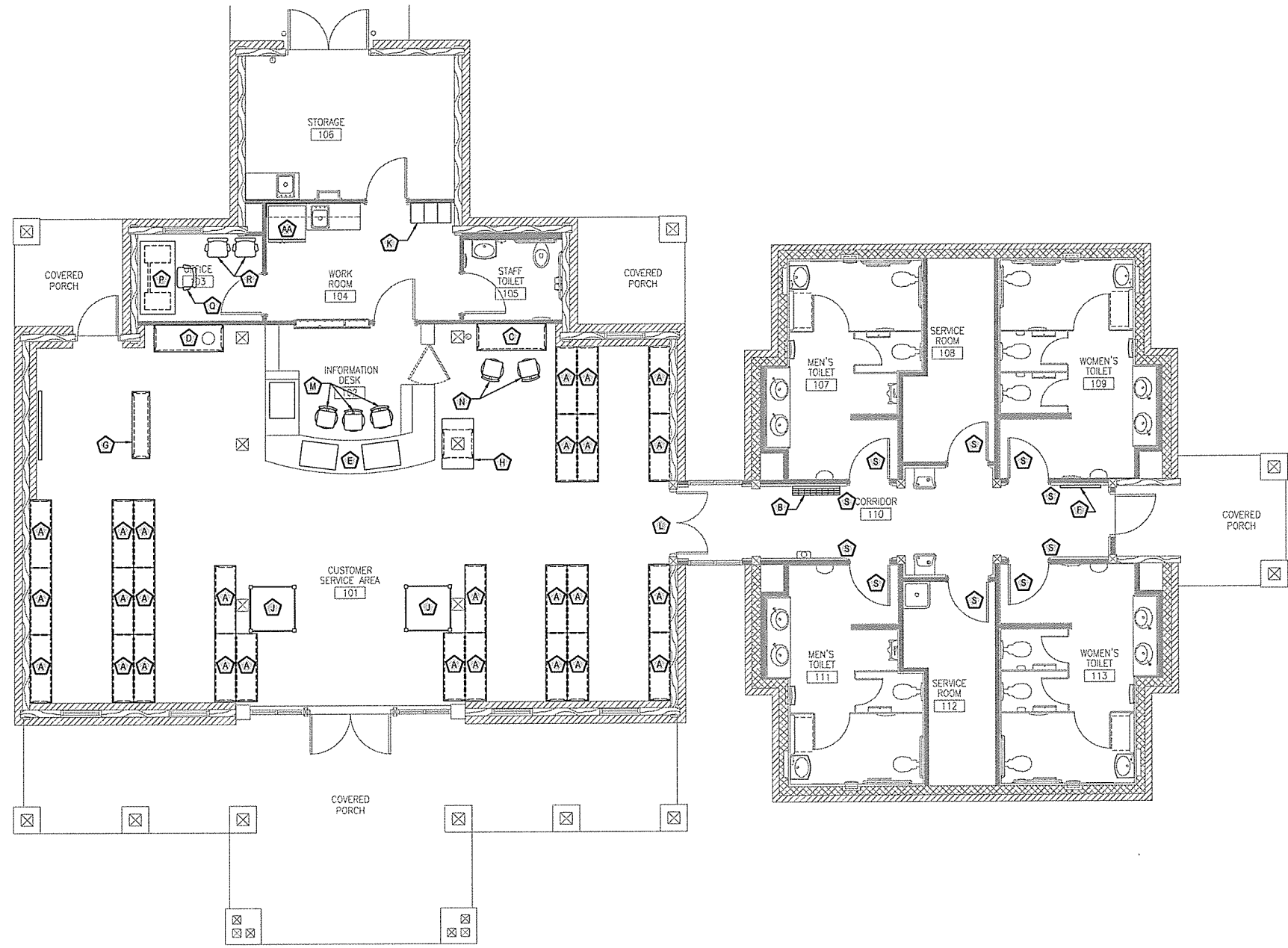
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 No. 2365
 ARKANSAS
 5/15/16
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

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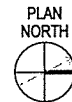


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FURNITURE PLAN
 SCALE: 3/16" = 1'-0"



FIXED FURNISHINGS AND BUILT-IN MILLWORK LEGEND:

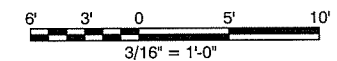
- A BROCHURE RACK - REF: SHEET A-407
- B WALL MOUNTED BROCHURE RACK - REF: SHEET A-413
- C DATA COUNTER - REF: SHEET A-409
- D COFFEE BAR CABINET - REF: SHEET A-408
- E RECEPTION COUNTER - REF: SHEET A-406
- F ALLEN DISPLAY ENCLOSED BULLETIN BOARD, MODEL: PW13624K, OAK (QUANTITY - 1)
- G MOVEABLE UPHOLSTERED BENCH - REF: SHEET A-409
- H INFORMATION COMPUTER KIOSK - REF: SHEET A-415
- J MUSEUM DISPLAY CABINET - REF: SHEET A-414
- K LOCKERS - Penco 60" SINGLE TIER VANGUARD LOCKERS - BANK OF 3 - COLOR: 073 CHAMPAGNE
- L WALL CLOCK - MOUNT CENTERED ABOVE DOOR W/ 1" @ 10'-6" AFF HOWARD MILLER LYNCOMBE, ITEM #HMI139, Ø33" x 2-3/4"; FINISH: OAK

KITCHEN APPLIANCES:

- M EMPLOYEE STOOL - TBS (QUANTITY - 3)
- N COMPUTER DESK STOOL - TBS (QUANTITY - 2)
- P OFFICE DESK - SAUDER HERITAGE HILL EXECUTIVE DESK; COLOR: BETHEL CHERRY; 29-5/8"H x 65-1/2"W x 31-1/8"D.
- Q DESK CHAIR - TBS
- R GUEST CHAIR - TBS (QUANTITY - 2)
- S INTERIOR SIGNAGE - COORDINATE WITH AMERICAN BUILDING SPECIALTIES - DANA GUESS (501) 791-2024
- AA REFRIGERATOR
KENMORE 25.4 CU FT SIDE-BY-SIDE ENERGY STAR RATED THRU DOOR ICE AND WATER SEARS ITEM # 04657402000 MFG. MODEL # 57402 COLOR: WHITE

FURNITURE PLAN NOTES:

1. GENERAL CONTRACTOR SHALL ASSEMBLE ALL FURNITURE REQUIRING ASSEMBLY FOR USE.
2. GENERAL CONTRACTOR SHALL DELIVER ALL SPARE PARTS, INSTRUCTION BOOKLETS, WARRANTY INFORMATION AND SUPPLIED ASSEMBLY TOOLS TO THE OWNER.
3. GENERAL CONTRACTOR SHALL REMOVE ALL PACKING MATERIALS FROM FURNITURE AND REMOVE FROM SITE.
4. GENERAL CONTRACTOR SHALL PROTECT ALL FURNITURE FROM DAMAGE AND DELIVER SAME IN "NEW AND UNUSED" CONDITION TO THE OWNER.
5. GENERAL CONTRACTOR SHALL SUBMIT PROPOSED KITCHEN APPLIANCES TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
6. KITCHEN APPLIANCES SHALL BE UNPACKED, INSTALLED AND CONNECTED SO AS TO BE IN A READY-TO-USE CONDITION. GENERAL CONTRACTOR SHALL PROTECT KITCHEN APPLIANCES FROM DAMAGE AND DELIVER SAME IN "NEW AND UNUSED" CONDITION TO THE OWNER.
7. INTERIOR ROOM SIGNAGE TO BE PURCHASED AND INSTALLED BY CONTRACTOR TO MEET ADA REQUIREMENTS. "OPEN/CLOSED" SIGNS TO BE INSTALLED ON FACE OF RESTROOM DOORS.
8. ITEMS M, N, Q AND R ARE COVERED BY ALLOWANCE AND WILL BE SELECTED BY AHTD.

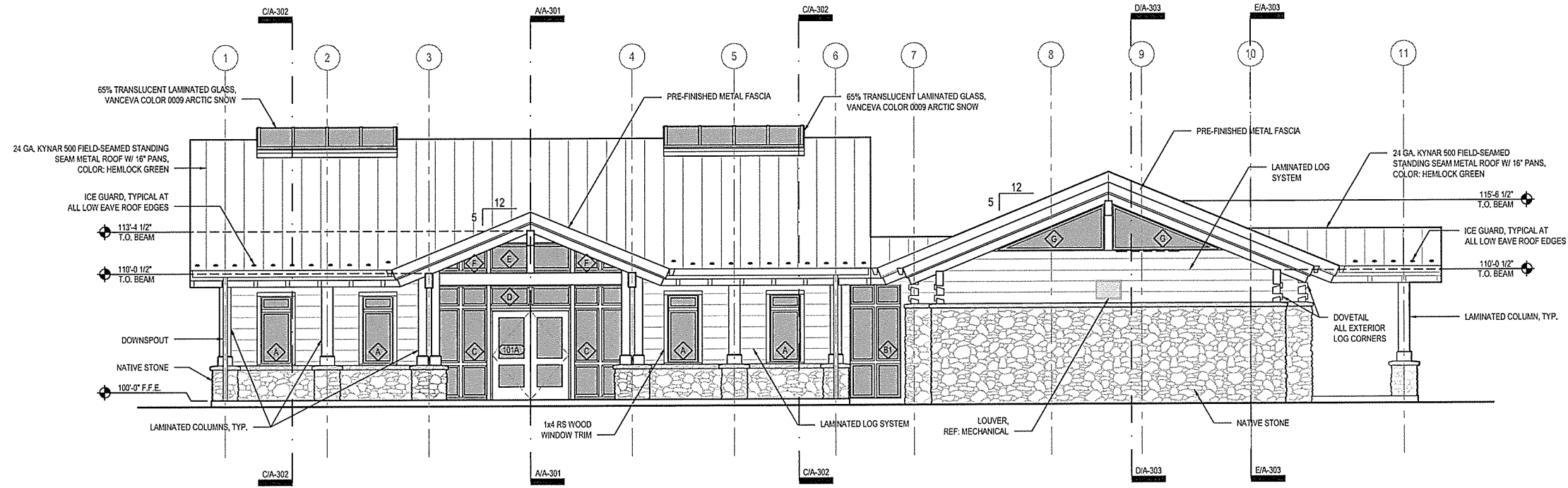


ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 FURNITURE PLAN

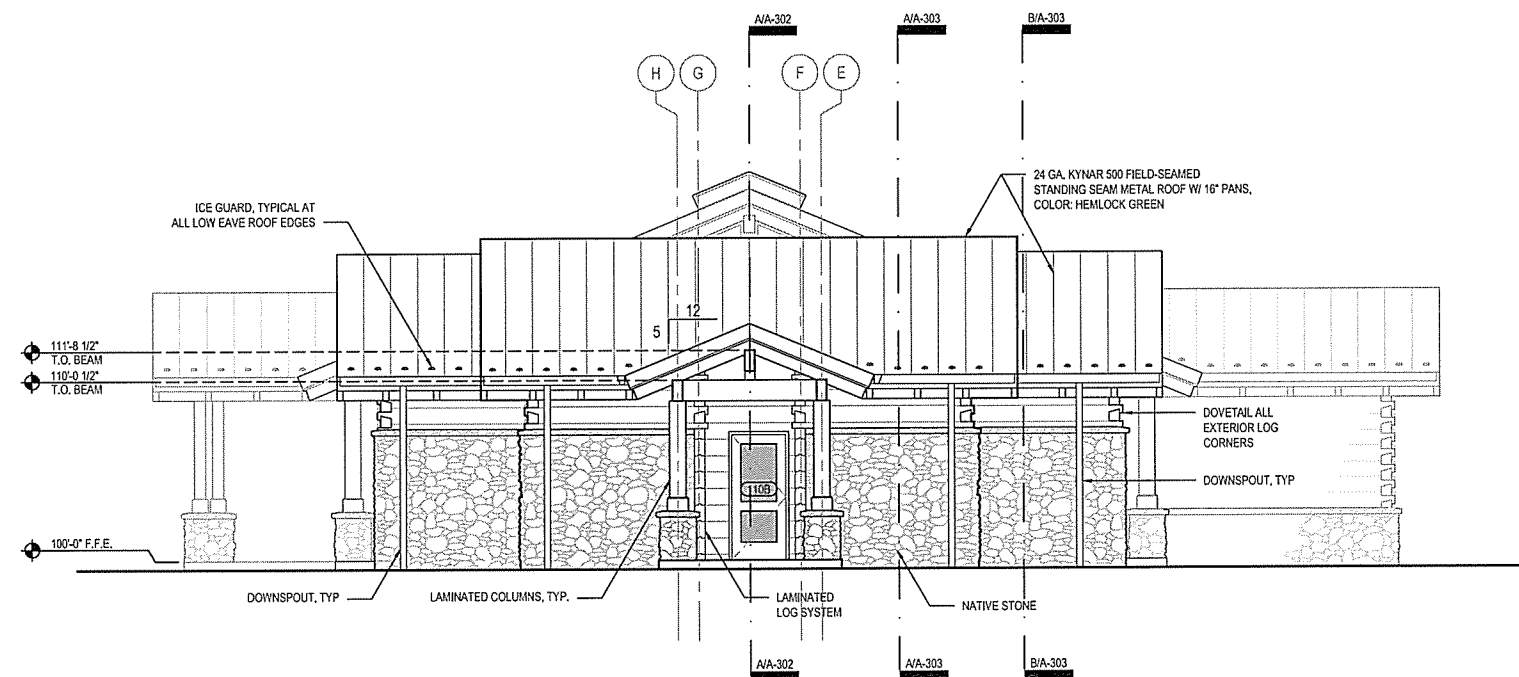
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DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-107
	46 OF 114

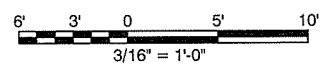
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 Date: September 23, 2015 - 4:27 pm
 User: tysona



A EAST ELEVATION
 A-201 SCALE: 3/16" = 1'-0"



B NORTH ELEVATION
 A-201 SCALE: 3/16" = 1'-0"



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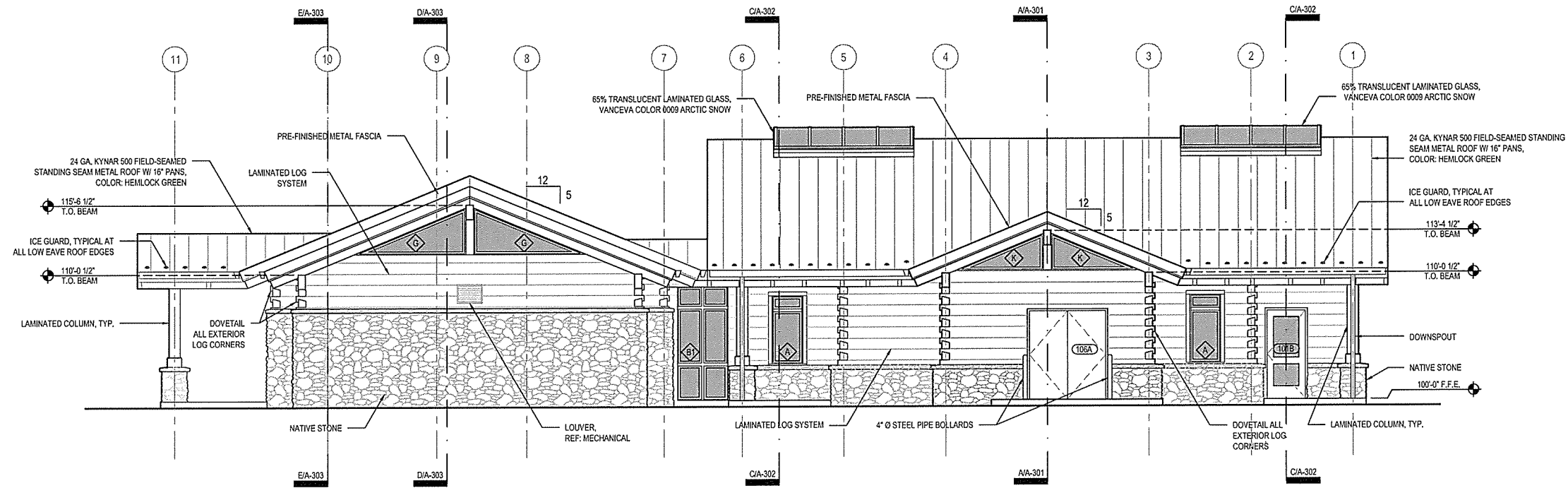
NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 REGISTERED ARCHITECT
 JOSEPH S. ROBERTS
 No. 2365
 REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS
 EXTERIOR ELEVATIONS

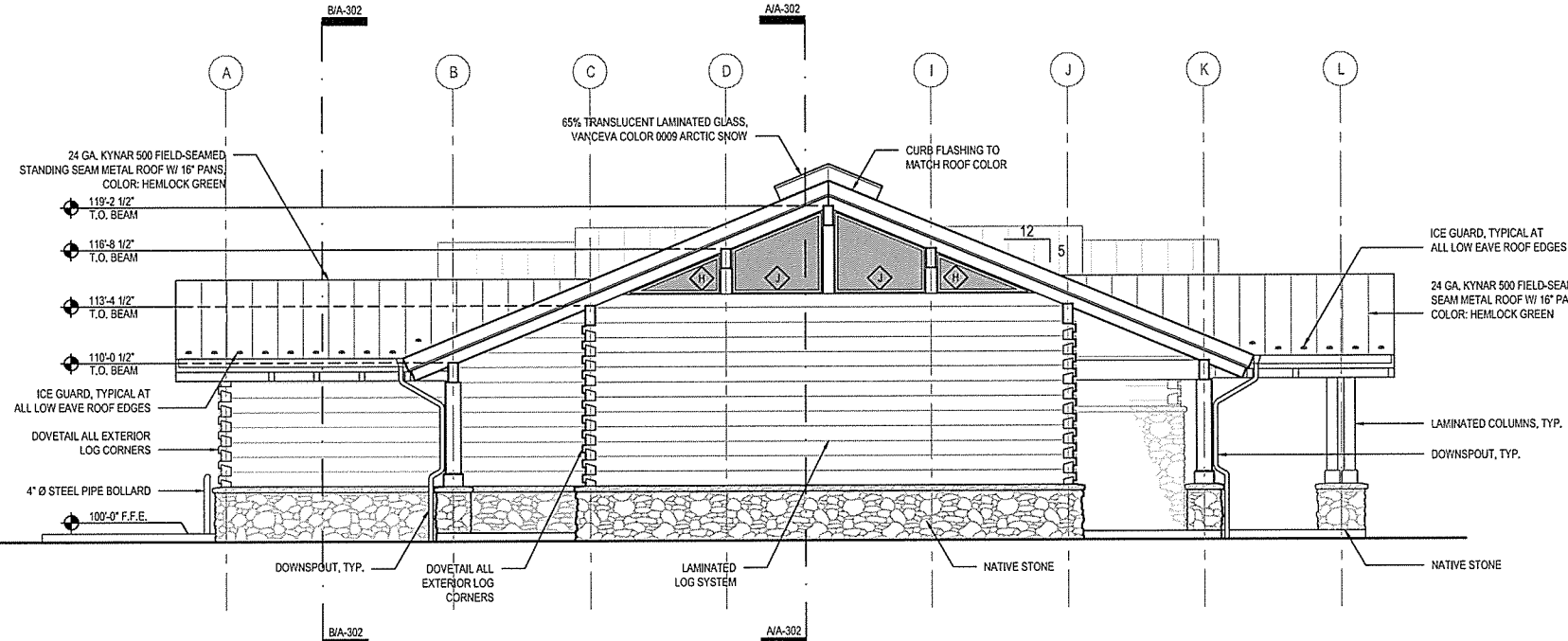
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-201
REV	47 OF 114

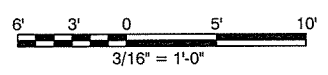
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 Date: September 23, 2015 - 4:28pm
 User: bjs59a



A WEST ELEVATION
 SCALE: 3/16" = 1'-0"



B SOUTH ELEVATION
 SCALE: 3/16" = 1'-0"



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ARKANSAS WELCOME CENTER
 RED RIVER
 EXTERIOR ELEVATIONS

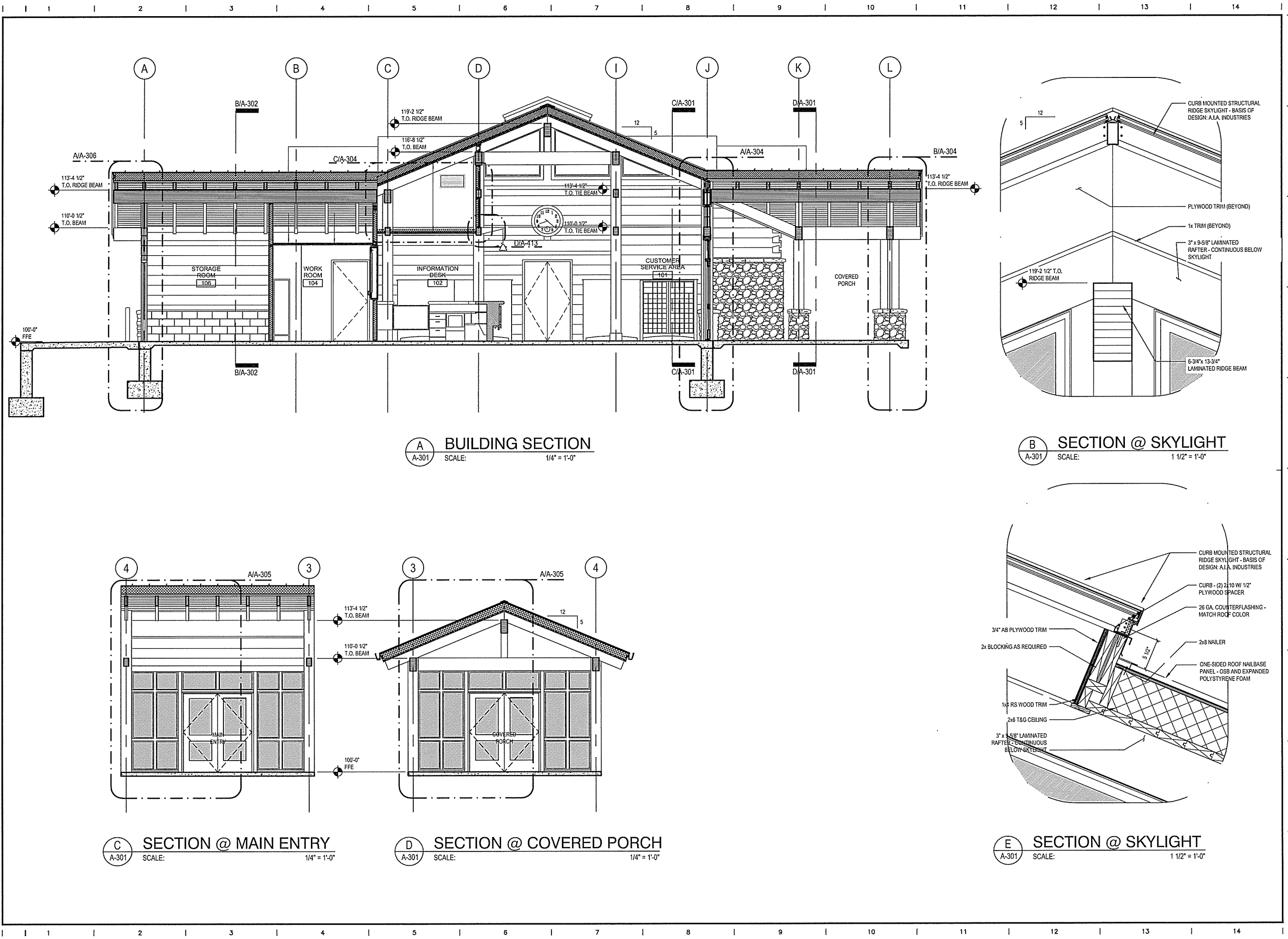
JOSEPH S. ROY
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS

Leidos Engineering LLC
 No. C-255
 REGISTERED ARCHITECT
 ARKANSAS

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CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-202
REV	48 OF 114

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 Date: September 23, 2015 - 4:28pm
 User: tjygan



A BUILDING SECTION
A-301 SCALE: 1/4" = 1'-0"

B SECTION @ SKYLIGHT
A-301 SCALE: 1 1/2" = 1'-0"

C SECTION @ MAIN ENTRY
A-301 SCALE: 1/4" = 1'-0"

D SECTION @ COVERED PORCH
A-301 SCALE: 1/4" = 1'-0"

E SECTION @ SKYLIGHT
A-301 SCALE: 1 1/2" = 1'-0"

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JOSEPH S. ROBERTS
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS
 1-21-15
 REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 BUILDING SECTIONS & DETAILS

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 CHECKED BY JSR
 APPROVED BY JSR

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER 313841
 SHEET A-301 | REV 1
 49 OF 114

File name: V:\JOB\BAR Highway Dept\131841 - AHTD Welcome Center\20_DESIGN\40_CAD\AWC_Red River\A4-302 BUILDING SECTIONS.dwg
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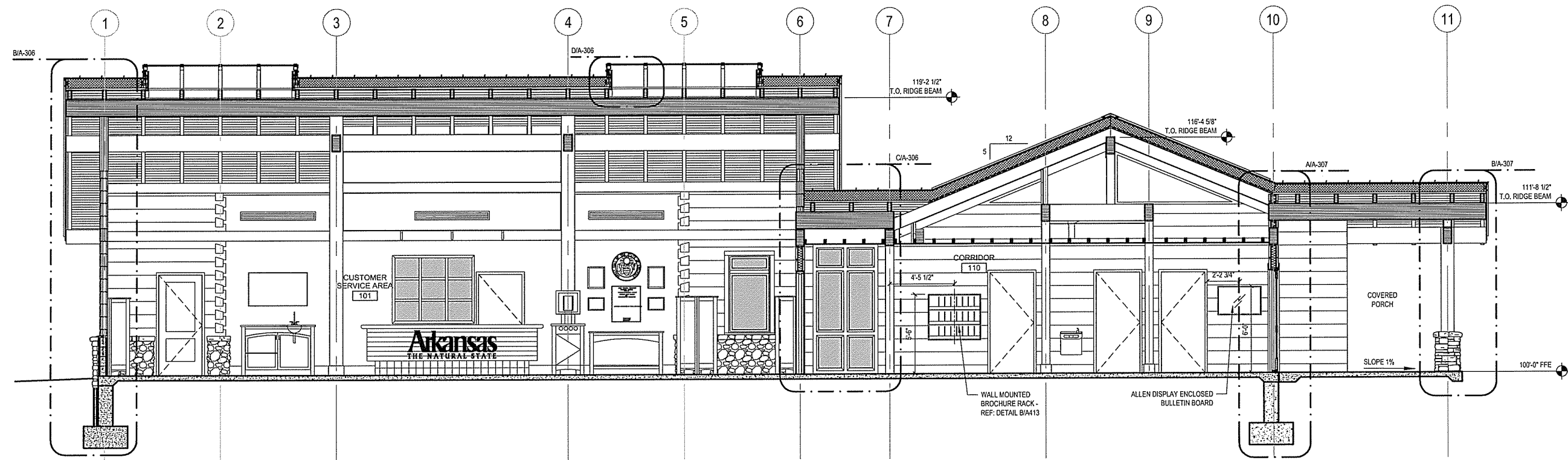
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0	9/25/2015				

JOSEPH S. ROSE
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS
 7-05-15
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

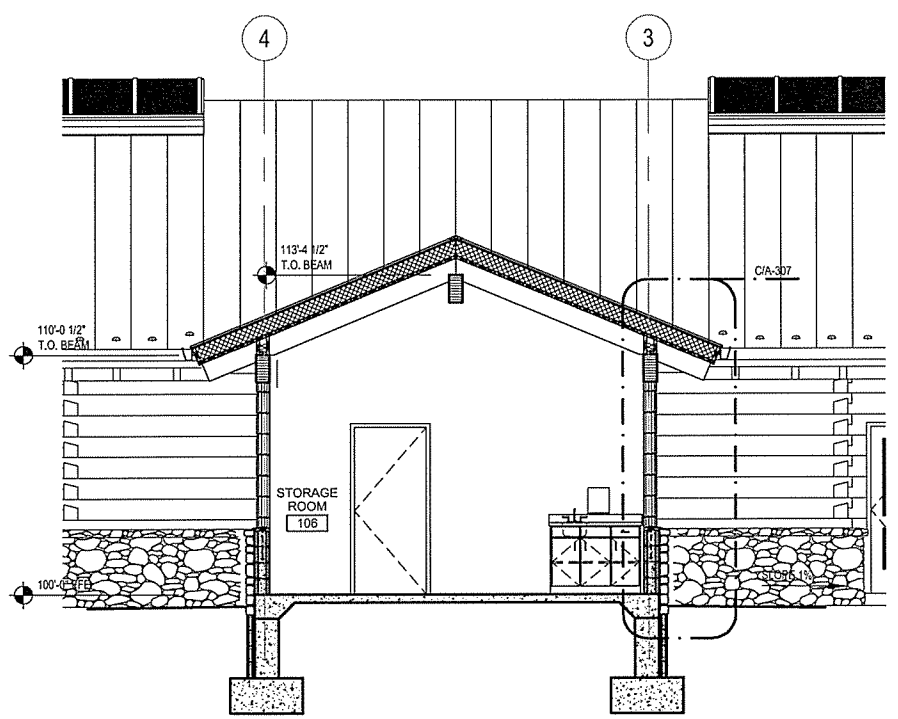
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 BUILDING SECTIONS

DESIGNED BY	JSR
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APPROVED BY	JSR

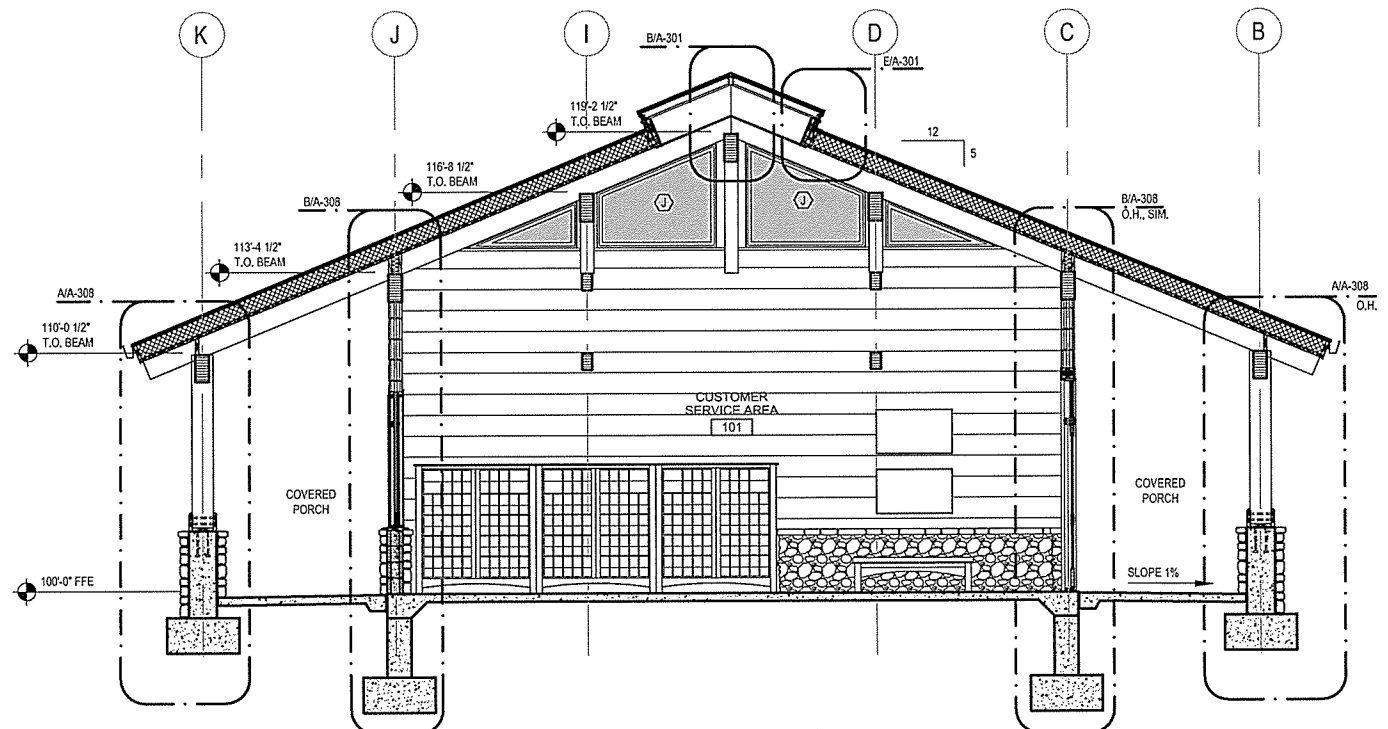
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-302
REV	



A LONGITUDINAL BUILDING SECTION
 A-302 SCALE: 1/4" = 1'-0"

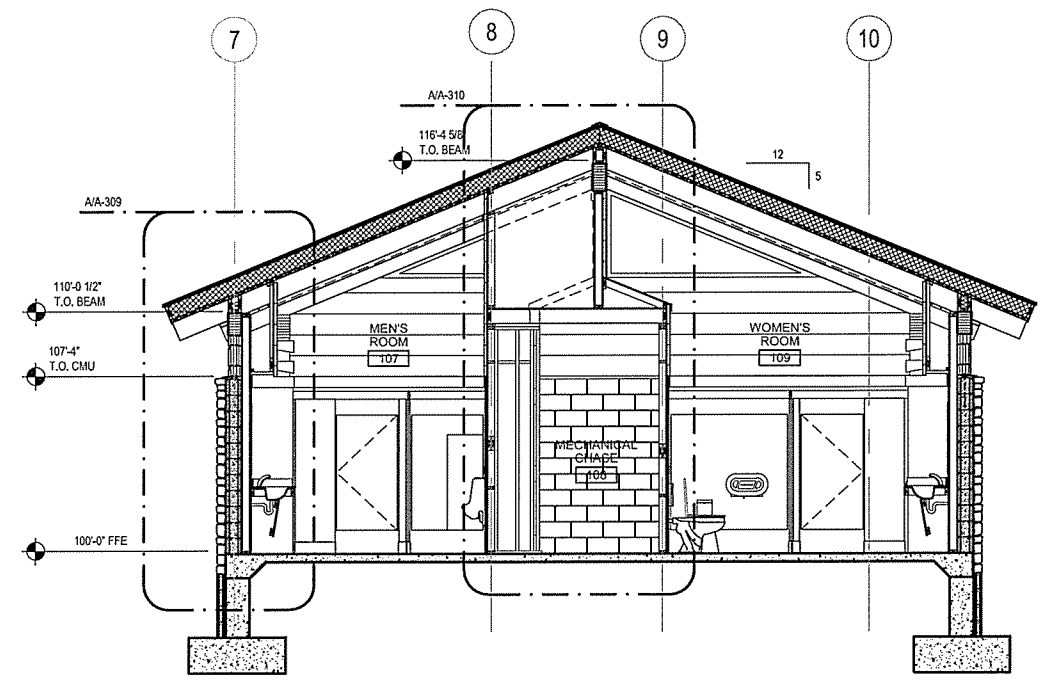


B SECTION @ STORAGE ROOM
 A-302 SCALE: 1/4" = 1'-0"

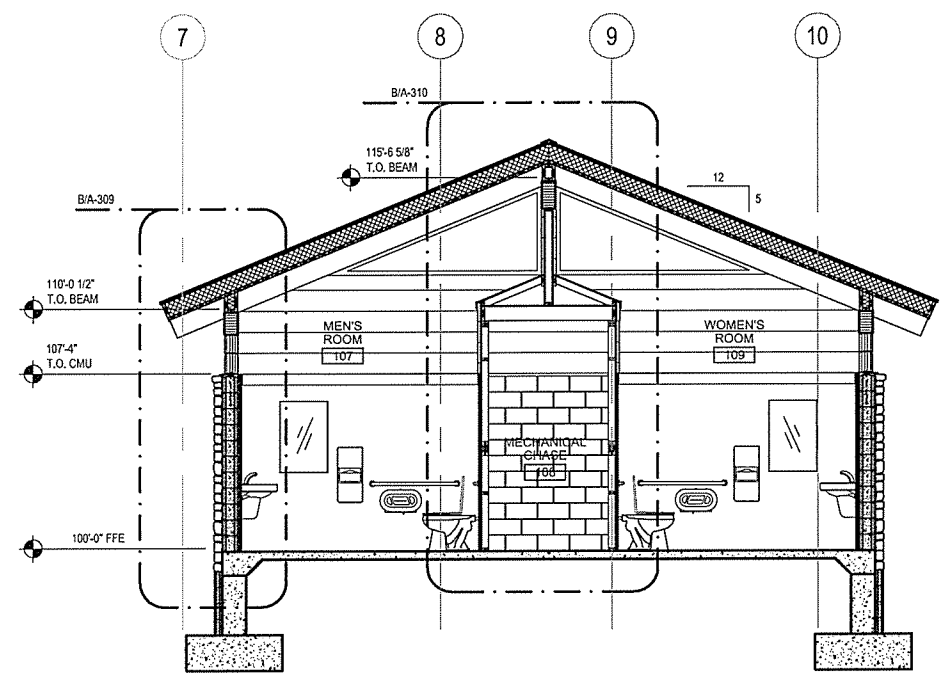


C BUILDING SECTION
 A-302 SCALE: 1/4" = 1'-0"

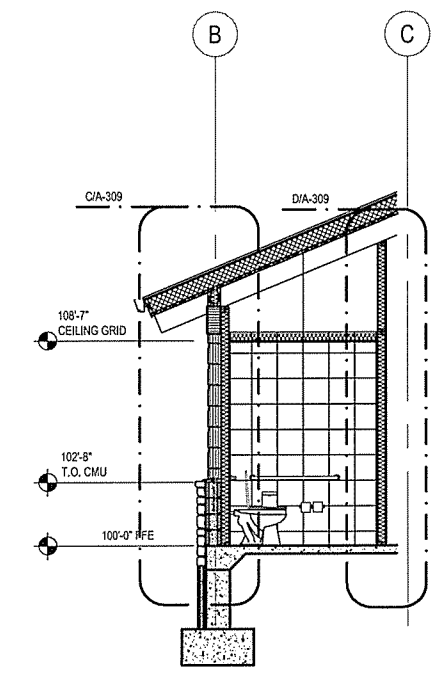
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 User: blysona



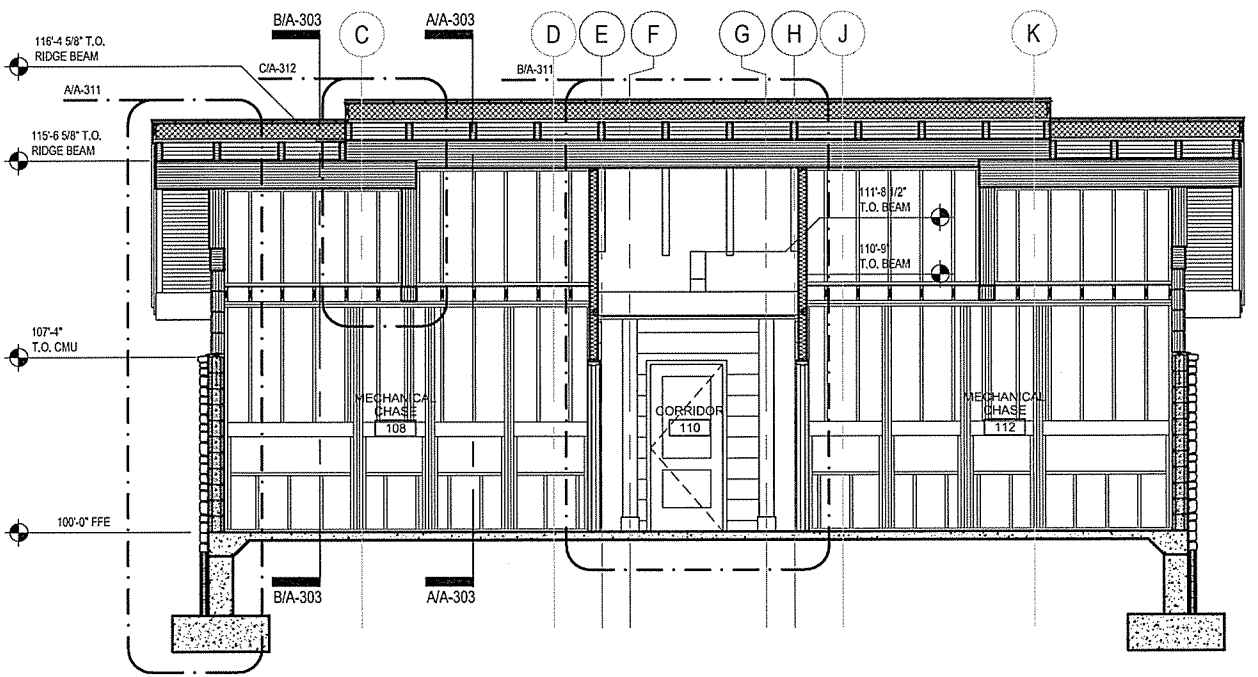
A BUILDING SECTION @ RESTROOM WING
 SCALE: 1/4" = 1'-0"



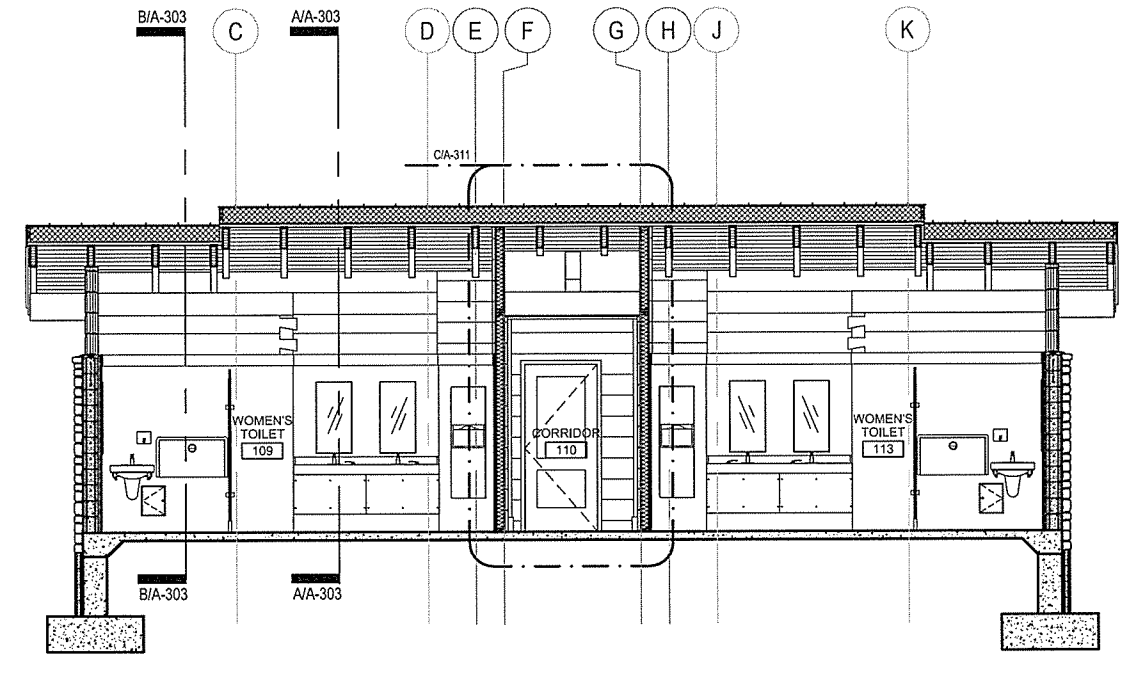
B BUILDING SECTION @ RESTROOM WING
 SCALE: 1/4" = 1'-0"



C BUILDING SECTION @ STAFF TOILET
 SCALE: 1/4" = 1'-0"





D LONGITUDINAL RESTROOM WING SECTION
 SCALE: 1/4" = 1'-0"



E LONGITUDINAL RESTROOM WING SECTION
 SCALE: 1/4" = 1'-0"

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 BUILDING SECTIONS


 9.25.15


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CHECKED BY	JSR
APPROVED BY	JSR

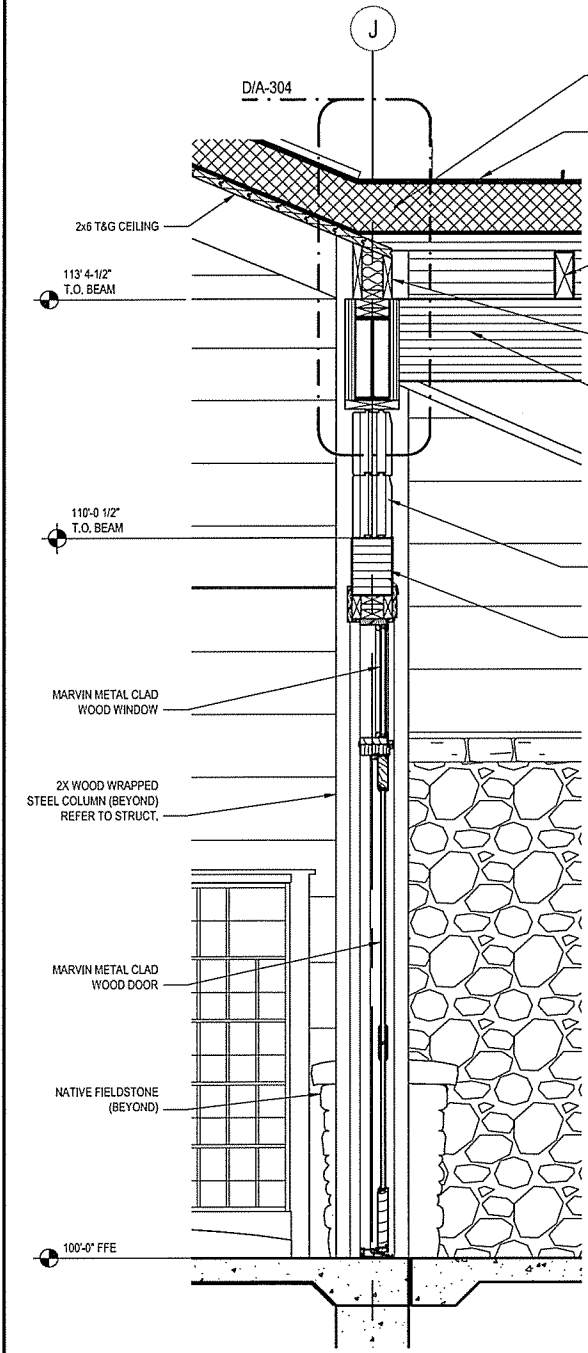
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SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-303
REV	51 OF 114

File name: \\VEDD\049 Highway\Doc\313841 - NHTD Welcome Center\3D_DESIGN\3D_CAD\A\NIC_Red River\A-A-304_SECTION DETAILS.rvt
 Date: September 23, 2015 - 4:29pm
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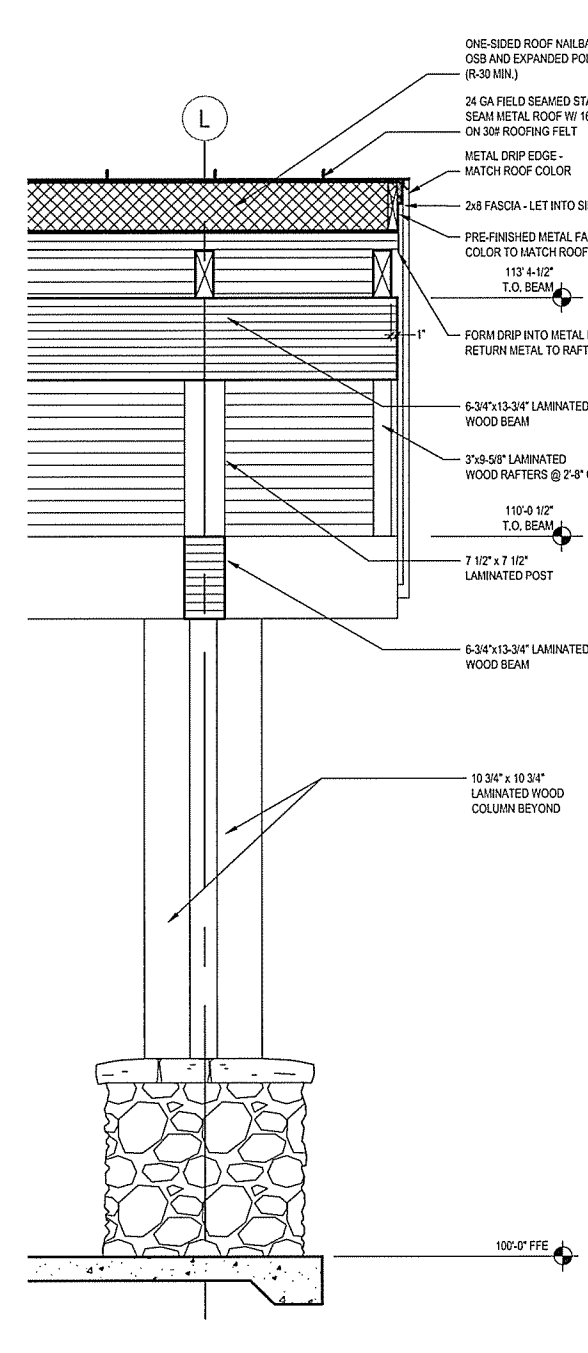


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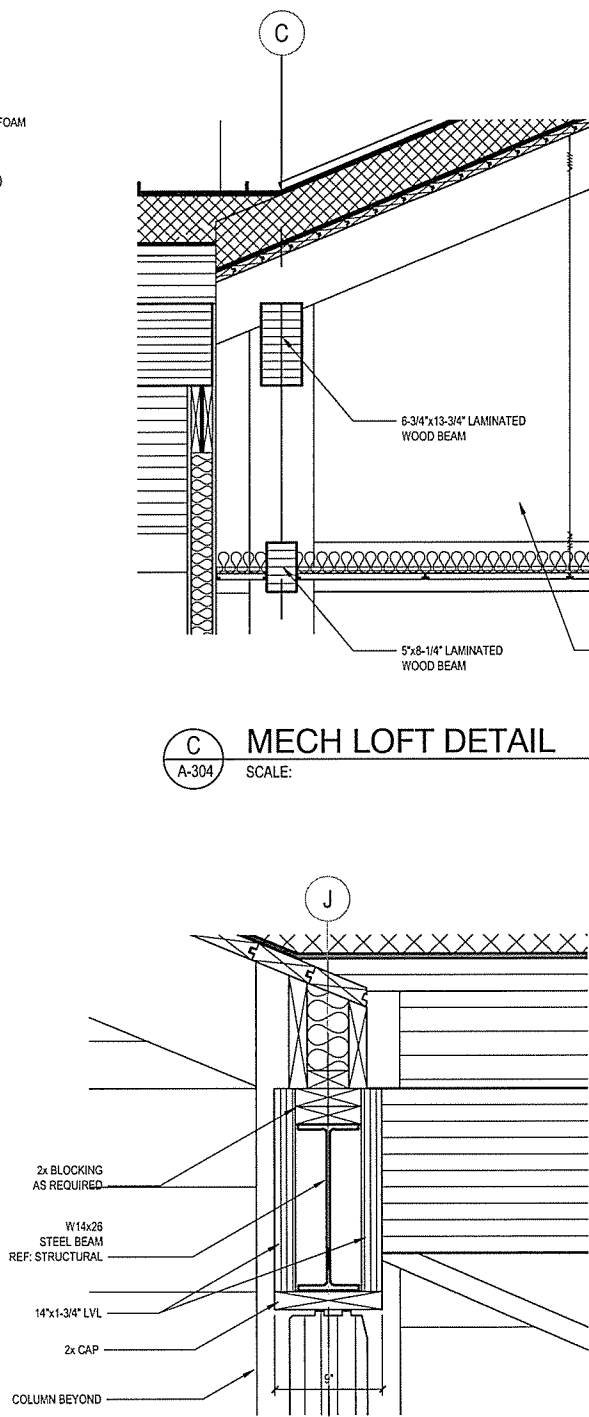
NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015			



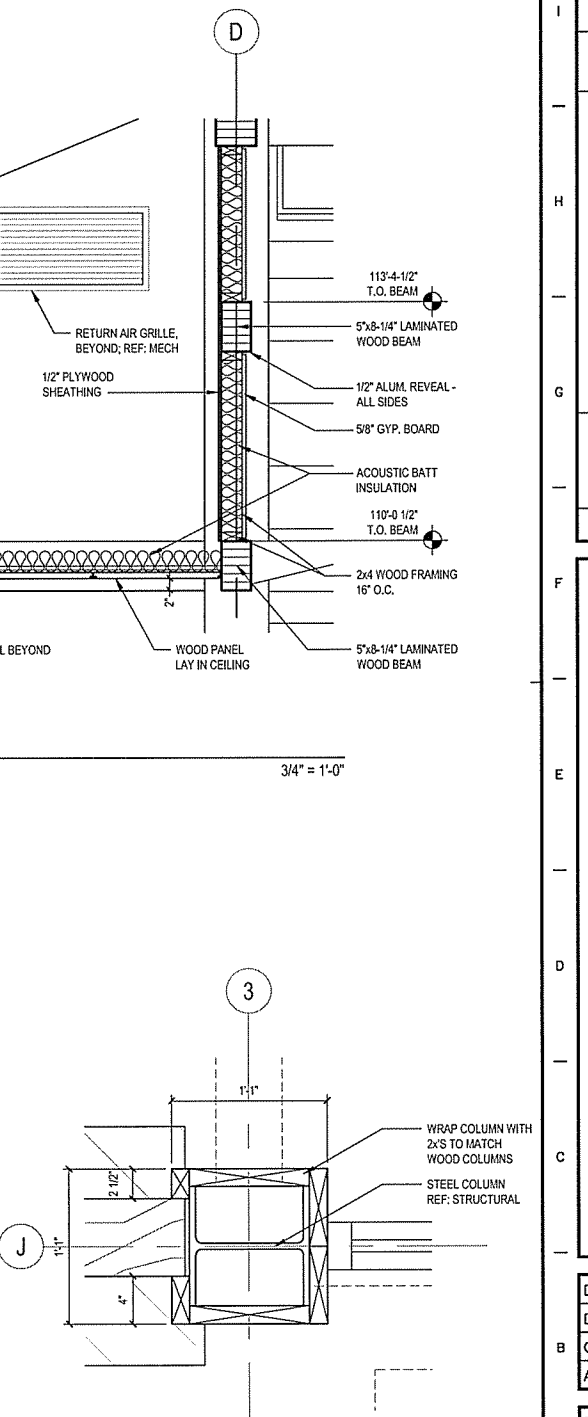
A **DETAIL SECTION**
 SCALE: 3/4" = 1'-0"



B **DETAIL SECTION**
 SCALE: 3/4" = 1'-0"



D **BEAM SECTION DETAIL**
 SCALE: 3/4" = 1'-0"



E **COLUMN SECTION DETAIL**
 SCALE: 3/4" = 1'-0"

C **MECH LOFT DETAIL**
 SCALE: 3/4" = 1'-0"

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

SECTION DETAILS

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 CHECKED BY JSR
 APPROVED BY JSR

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER 313841
 SHEET A-304 | REV
 52 OF 114



File name: \\VFD\BMS-1\Projects\313841 - ARHTD Welcome Center\20_DESIGN\0_CADD\AWC_R04_River\A-305 SECTION DETAILS.dwg
 Date: September 23, 2015 - 4:23pm
 User: blypsaa

GENERAL NOTES:
 1. DASHED LINES INDICATE LINE OF ROOF VALLEY FRAMING ABOVE COVERED ENTRY BEHIND THE CUTTING PLANE OF THE SECTION.

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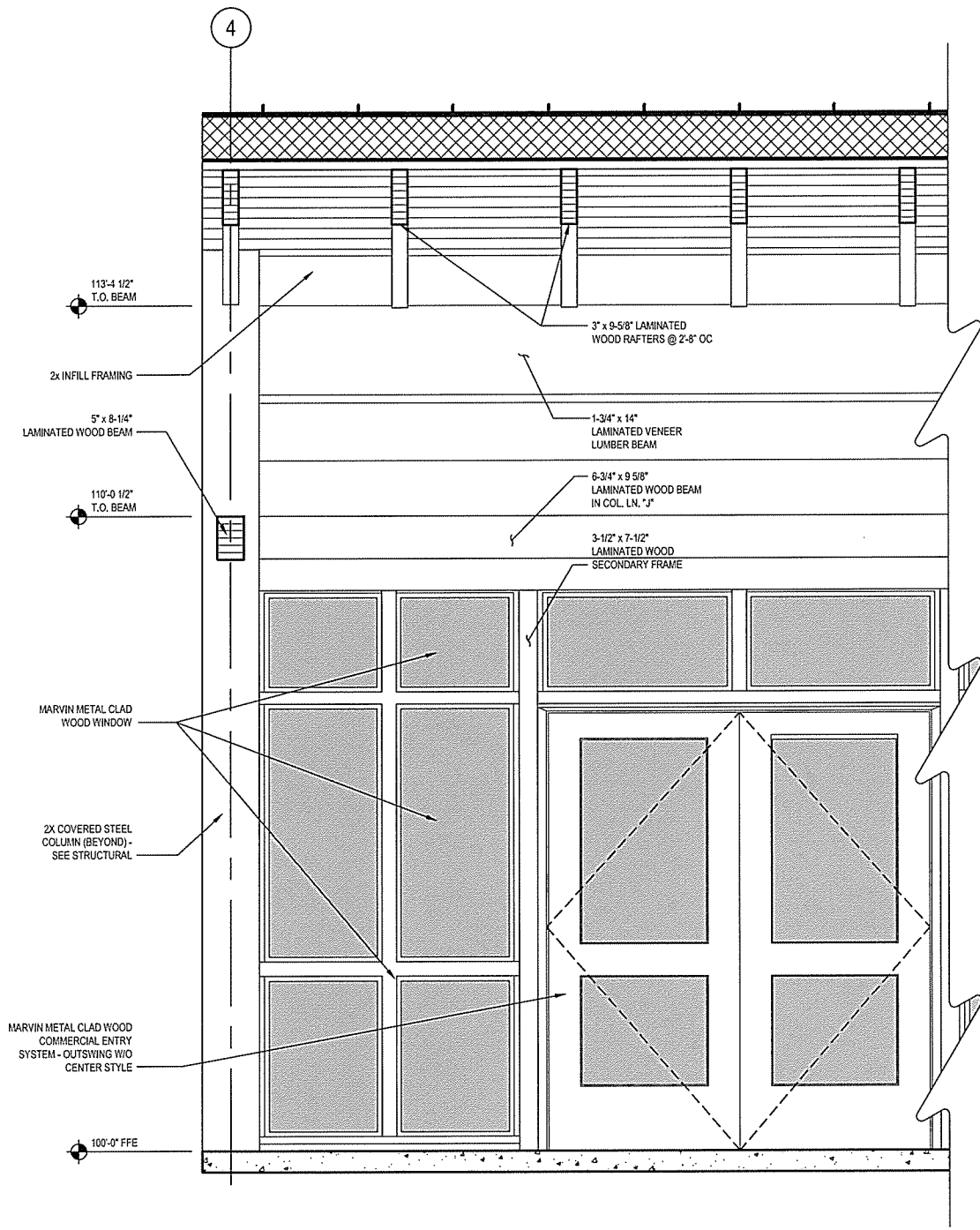
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

REGISTERED ARCHITECT
 JOSEPH S. ROSS
 No. 2365
 ARKANSAS
 2-25-15
 REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

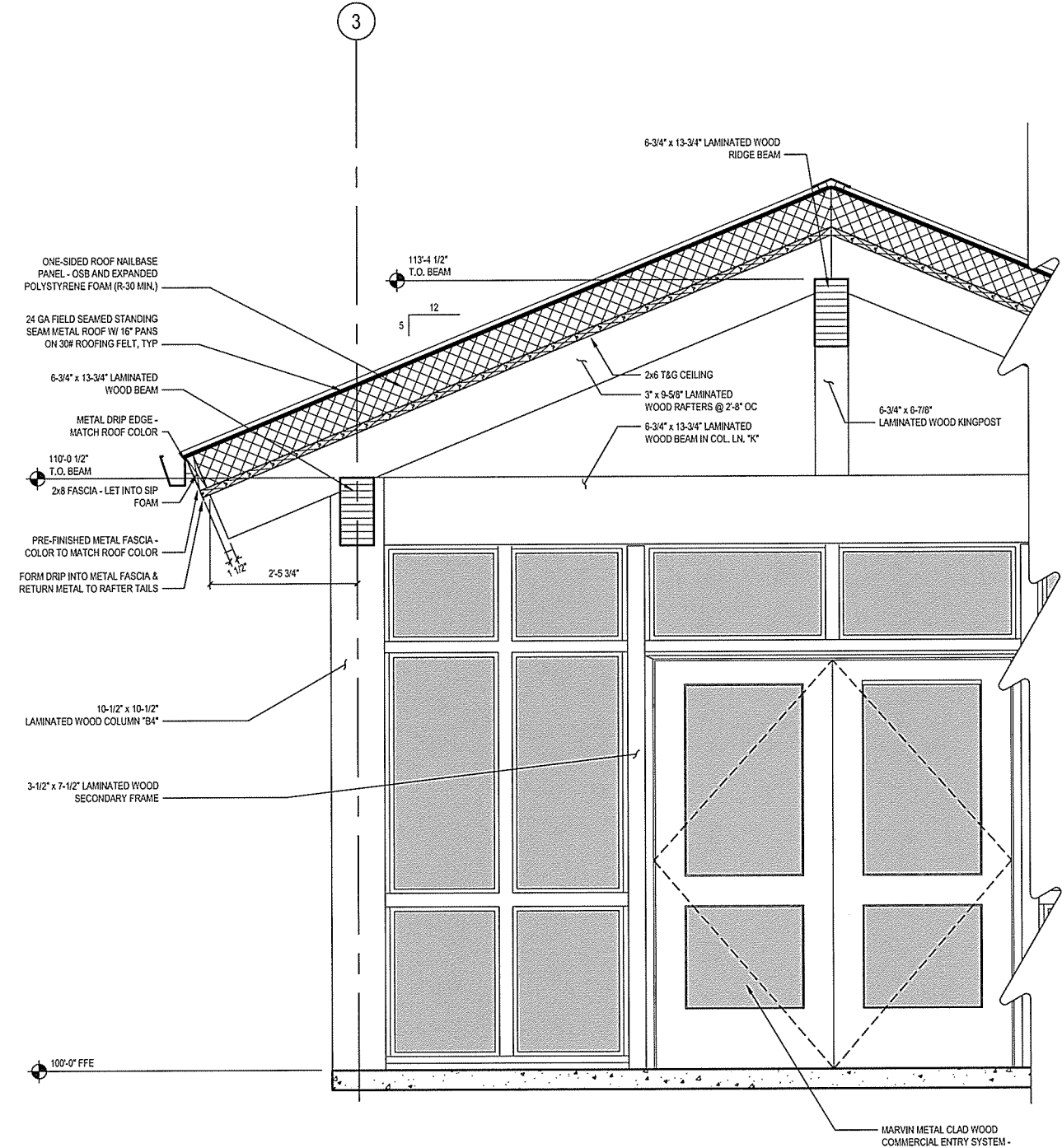
SECTION DETAILS

DESIGNED BY	JSR
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APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-305
REV	
53 OF 114	



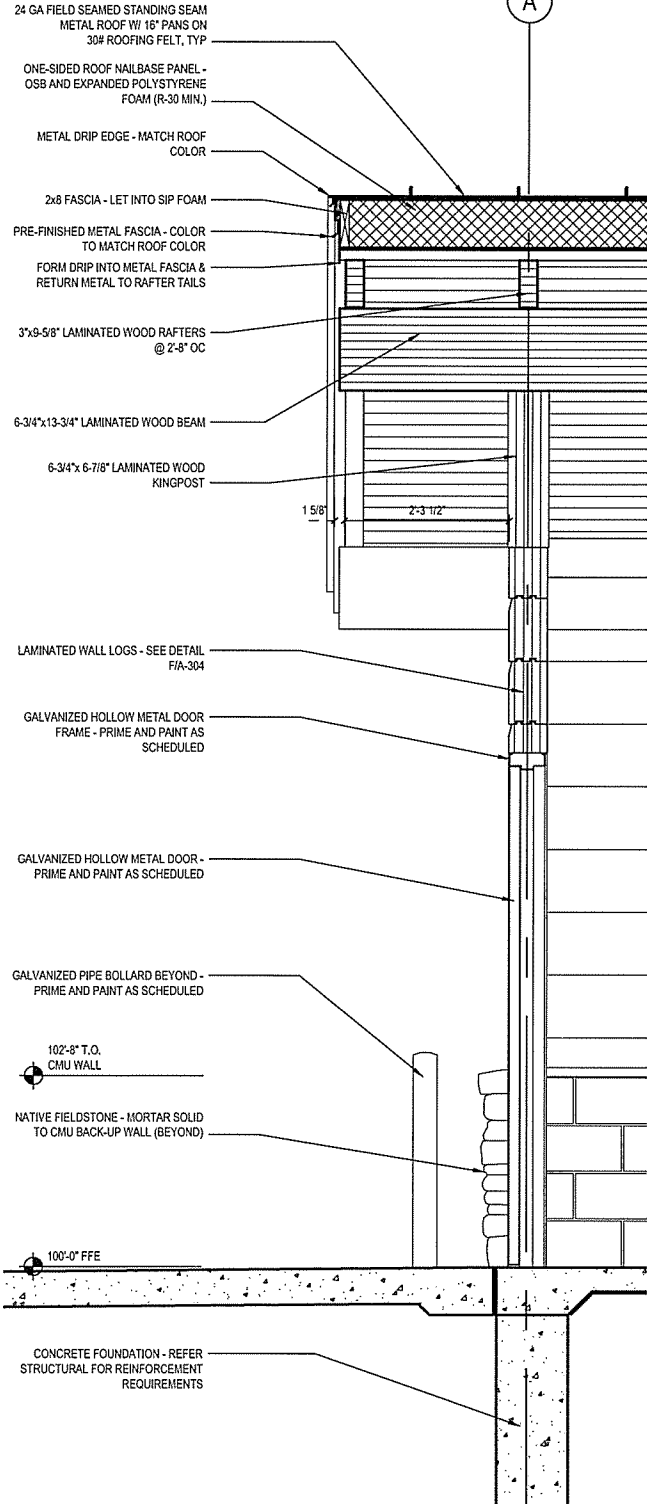
A SECTION DETAIL @ FOYER
 A-305 SCALE: 3/4" = 1'-0"



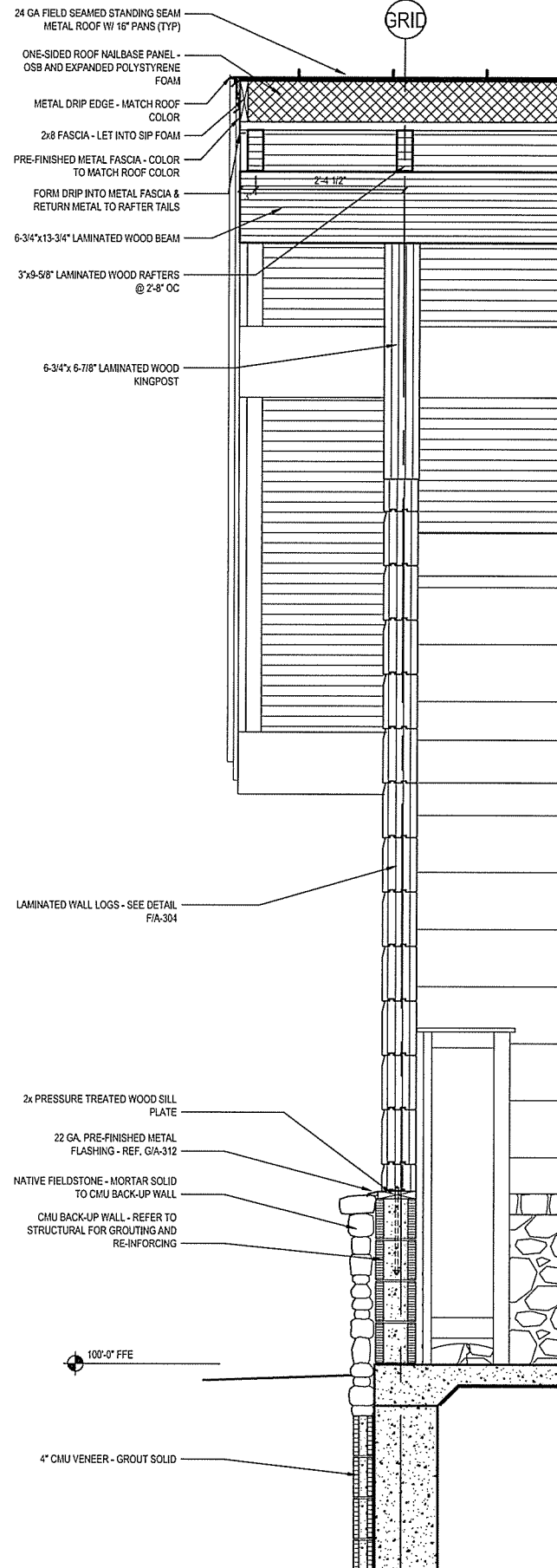
B SECTION DETAIL @ COVERED ENTRY
 A-305 SCALE: 3/4" = 1'-0"

STONE VENEER NOTES:

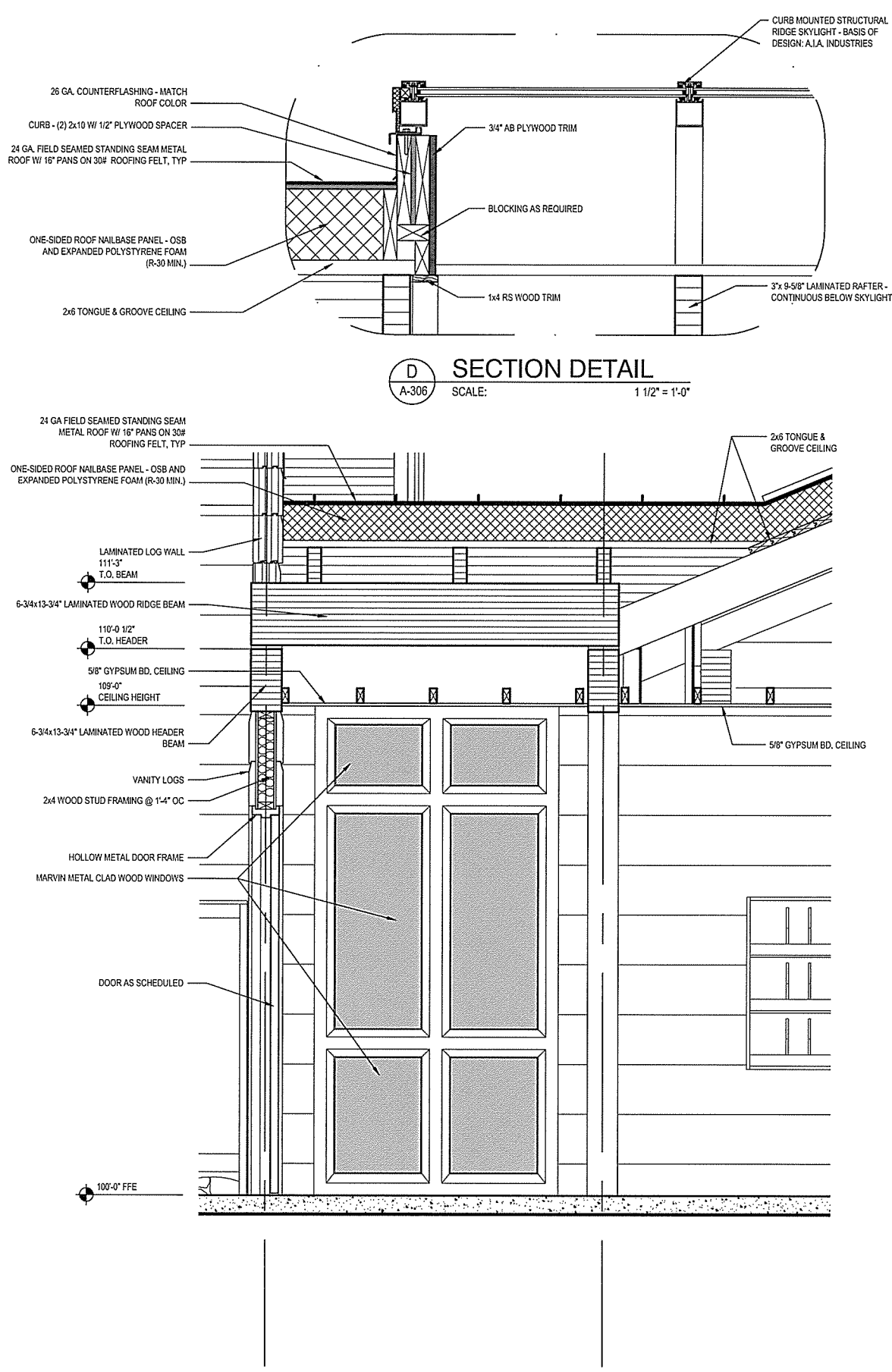
1. SELECT CAPSTONES FOR UNIFORMITY OF TOP, LEVEL SURFACE. CAPSTONE SHALL SLIGHTLY (1/2" TO 1") OVERHANG FACE OF STONE VENEER.
2. STONE VENEER SHALL BE ANCHORED TO CMU WALL IN ALL REQUIREMENTS OF SECTION 1405.6 OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND ALL OTHER PROVISIONS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AS APPLICABLE TO THE SEISMIC REQUIREMENTS FOR THE PROJECT LOCATION.
3. STONEMASONRY SHALL BE CLEANED OF EXTRANEOUS MORTAR AND INORGANIC FOREIGN MATERIAL WITH WATER AND BRUSH ONLY. ORGANIC GROWTH (MOSS OR LICHEN) SHALL BE PRESERVED TO THE EXTENT POSSIBLE.



A SECTION DETAIL
A-306 SCALE: 3/4" = 1'-0"



B SECTION DETAIL
A-306 SCALE: 3/4" = 1'-0"



C SECTION DETAIL
A-306 SCALE: 3/4" = 1'-0"

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
RED RIVER

SECTION DETAILS

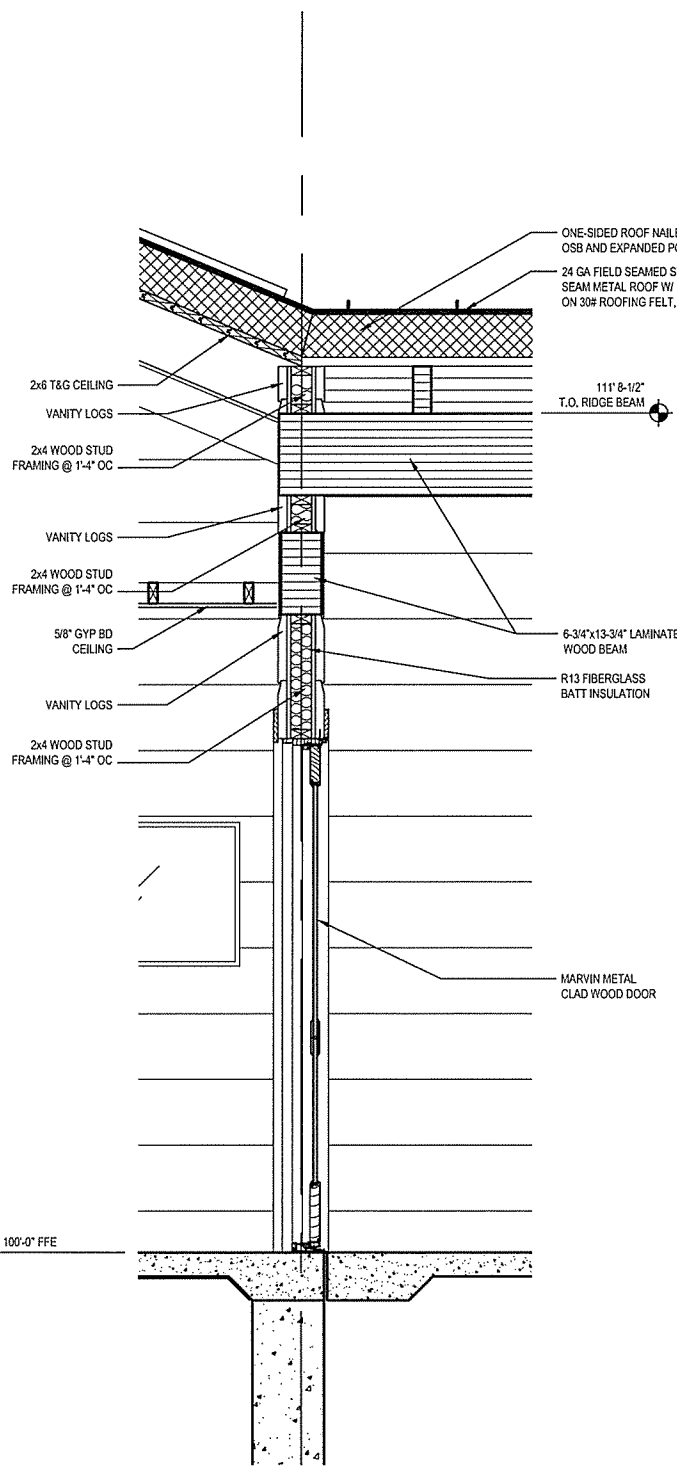
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DRAWN BY AMB
CHECKED BY JSR
APPROVED BY JSR

DATE 9/25/2015
SCALE AS SHOWN
LEIDOS PROJECT NUMBER 313841

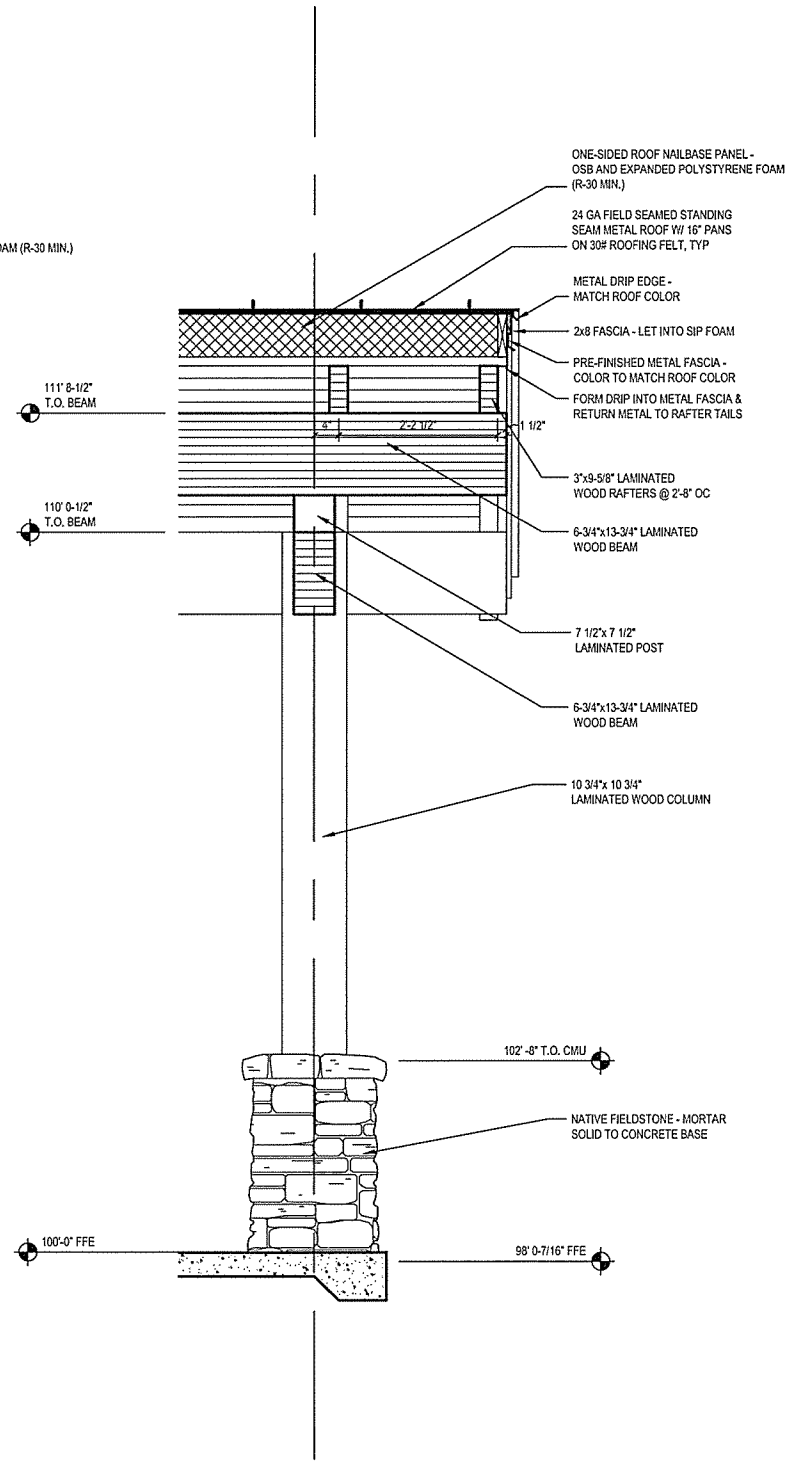
SHEET A-306 REV
54 OF 114

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User: brysona

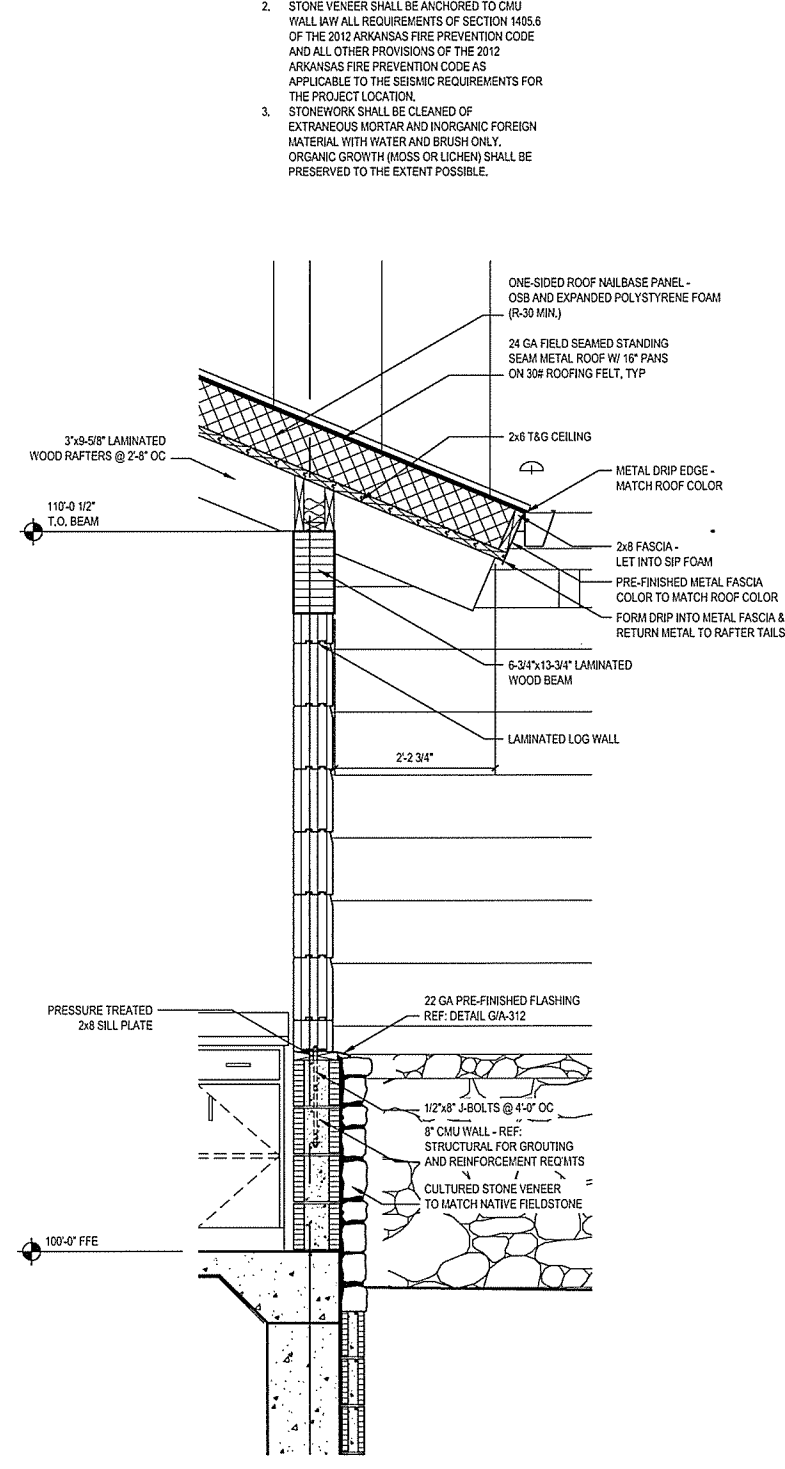
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 Date: September 23, 2015 - 4:29pm
 User: blysona



A WALL SECTION
 A-307 SCALE: 3/4" = 1'-0"



B WALL SECTION
 A-307 SCALE: 3/4" = 1'-0"



C WALL SECTION
 A-307 SCALE: 3/4" = 1'-0"

STONE VENEER NOTES:

1. SELECT CAPSTONES FOR UNIFORMITY OF TOP LEVEL SURFACE. CAPSTONE SHALL SLIGHTLY (1/2" TO 1") OVERHANG FACE OF STONE VENEER.
2. STONE VENEER SHALL BE ANCHORED TO CMU WALL IAW ALL REQUIREMENTS OF SECTION 1405.6 OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND ALL OTHER PROVISIONS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AS APPLICABLE TO THE SEISMIC REQUIREMENTS FOR THE PROJECT LOCATION.
3. STONEMASONRY SHALL BE CLEANED OF EXTRANEOUS MORTAR AND INORGANIC FOREIGN MATERIAL WITH WATER AND BRUSH ONLY. ORGANIC GROWTH (MOSS OR LICHEN) SHALL BE PRESERVED TO THE EXTENT POSSIBLE.

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SECTION DETAILS

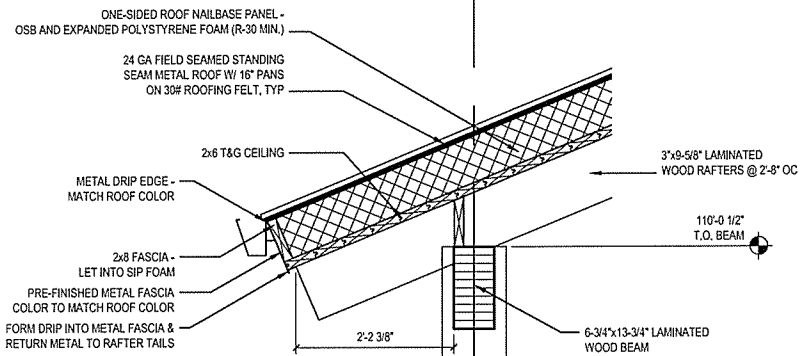
JOSEPH S. ROBERTS
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS

Leidos Engineering LLC
 No. C-255
 ARKANSAS

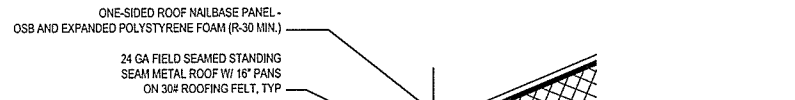
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APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-307
REV	

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 Date: September 23, 2015 - 4:29pm
 User: blysona



A WALL SECTION
 SCALE: 3/4" = 1'-0"



B WALL SECTION
 SCALE: 3/4" = 1'-0"

STONE VENEER NOTES:

1. SELECT CAPSTONES FOR UNIFORMITY OF TOP, LEVEL SURFACE. CAPSTONE SHALL SLIGHTLY (1/2" TO 1") OVERHANG FACE OF STONE VENEER.
2. STONE VENEER SHALL BE ANCHORED TO CMU WALL IN ALL REQUIREMENTS OF SECTION 1405.6 OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND ALL OTHER PROVISIONS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AS APPLICABLE TO THE SEISMIC REQUIREMENTS FOR THE PROJECT LOCATION.
3. STONEMASONRY SHALL BE CLEANED OF EXTRANEOUS MORTAR AND INORGANIC FOREIGN MATERIAL WITH WATER AND BRUSH ONLY. ORGANIC GROWTH (MOSS OR LICHEN) SHALL BE PRESERVED TO THE EXTENT POSSIBLE.



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

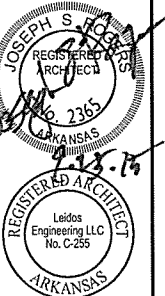
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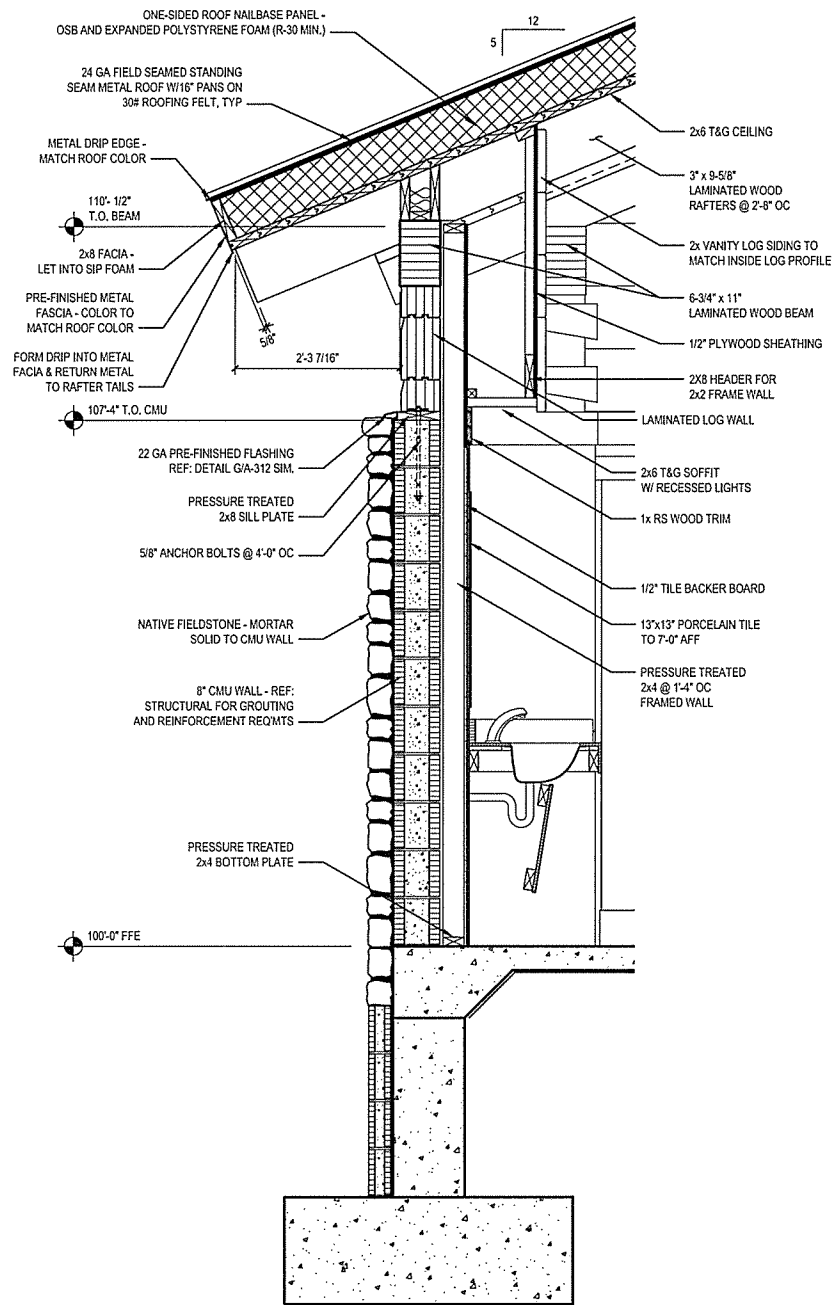
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 LEIDOS PROJECT NUMBER 313841

SHEET A-308 REV

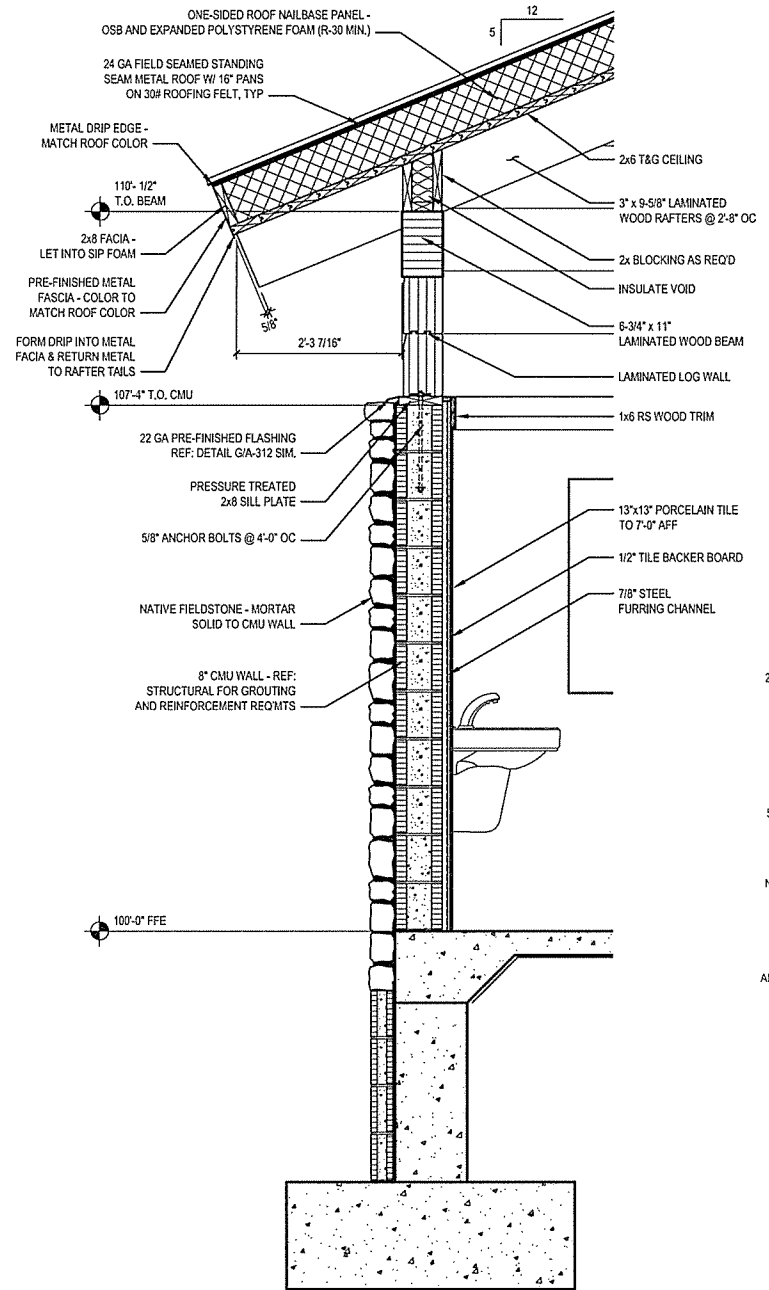
56 OF 114



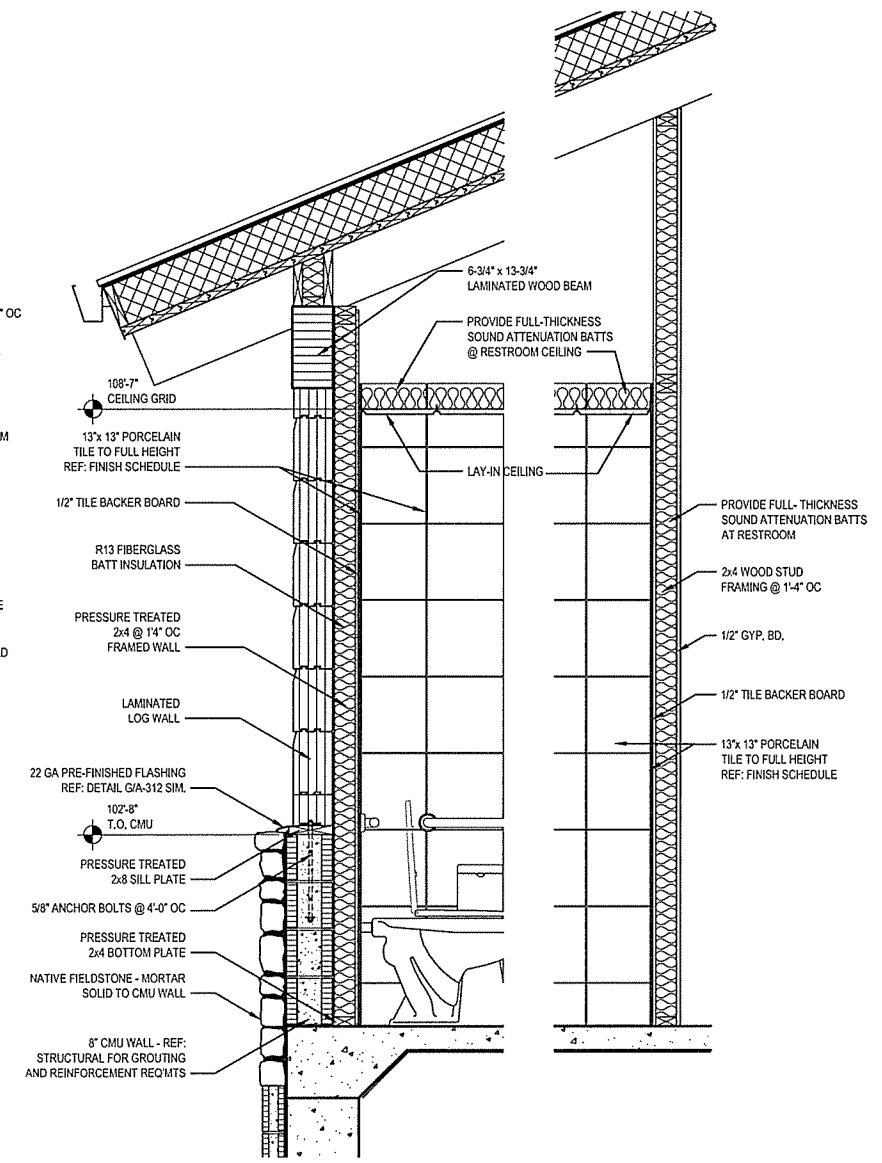
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 Date: September 23, 2015 - 4:30pm
 User: byzonta



A DETAIL SECTION
 A-309 SCALE: 3/4" = 1'-0"



B DETAIL SECTION
 A-309 SCALE: 3/4" = 1'-0"



C DETAIL SECTION
 A-309 SCALE: 3/4" = 1'-0"

D DETAIL SECTION
 A-309 SCALE: 3/4" = 1'-0"

leidos
 Leidos Engineering, LLC
 3608 N. Steele Blvd, Suite 105
 Fayetteville, Arkansas 72703
 (479) 442-3060
 www.leidos.com

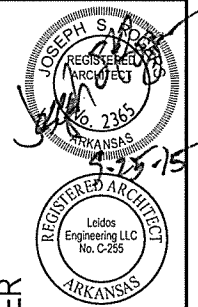
NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

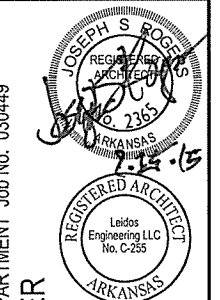
SECTION DETAILS

DESIGNED BY JSR
 DRAWN BY AMB
 CHECKED BY JSR
 APPROVED BY JSR

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER 313841
 SHEET A-309 | REV
 57 OF 114



NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

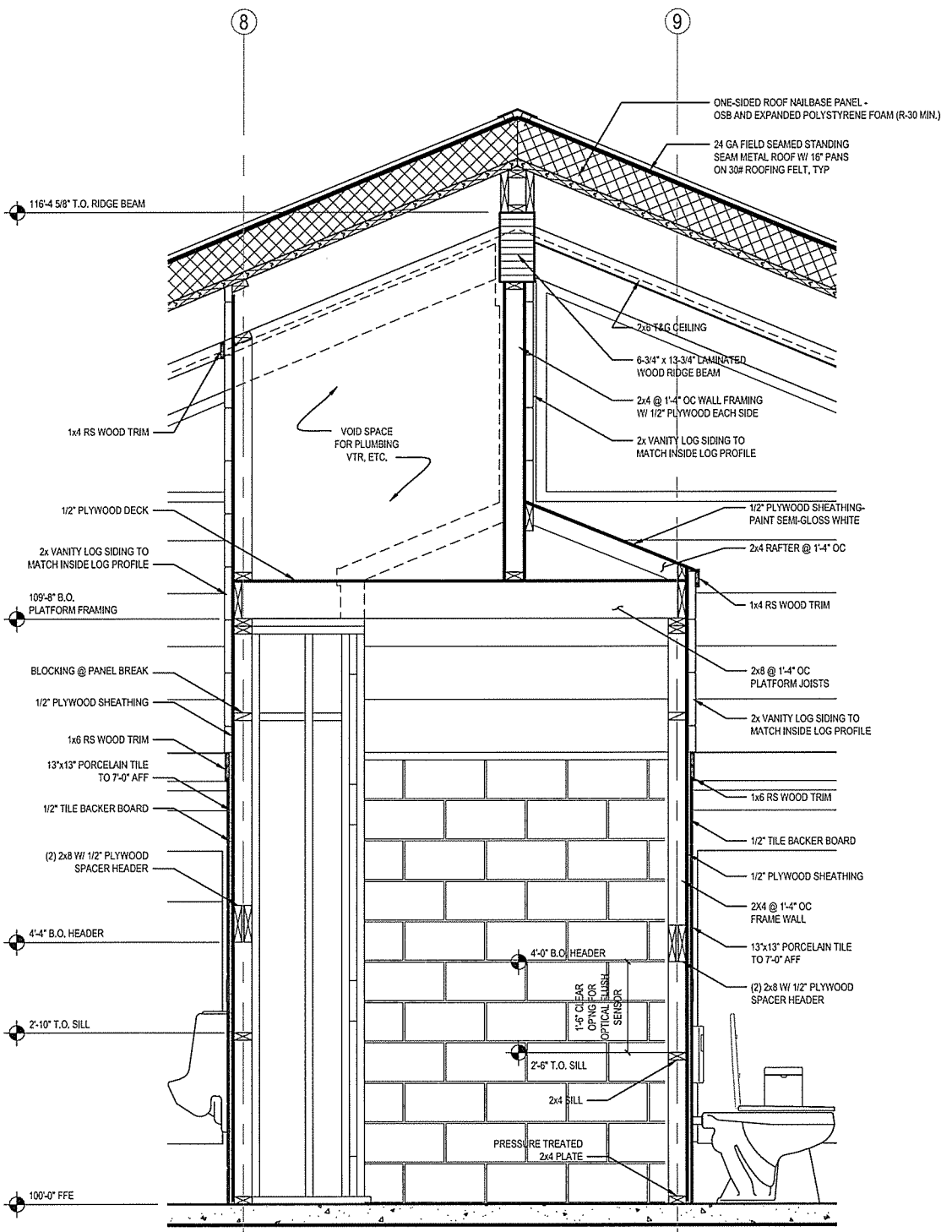


ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

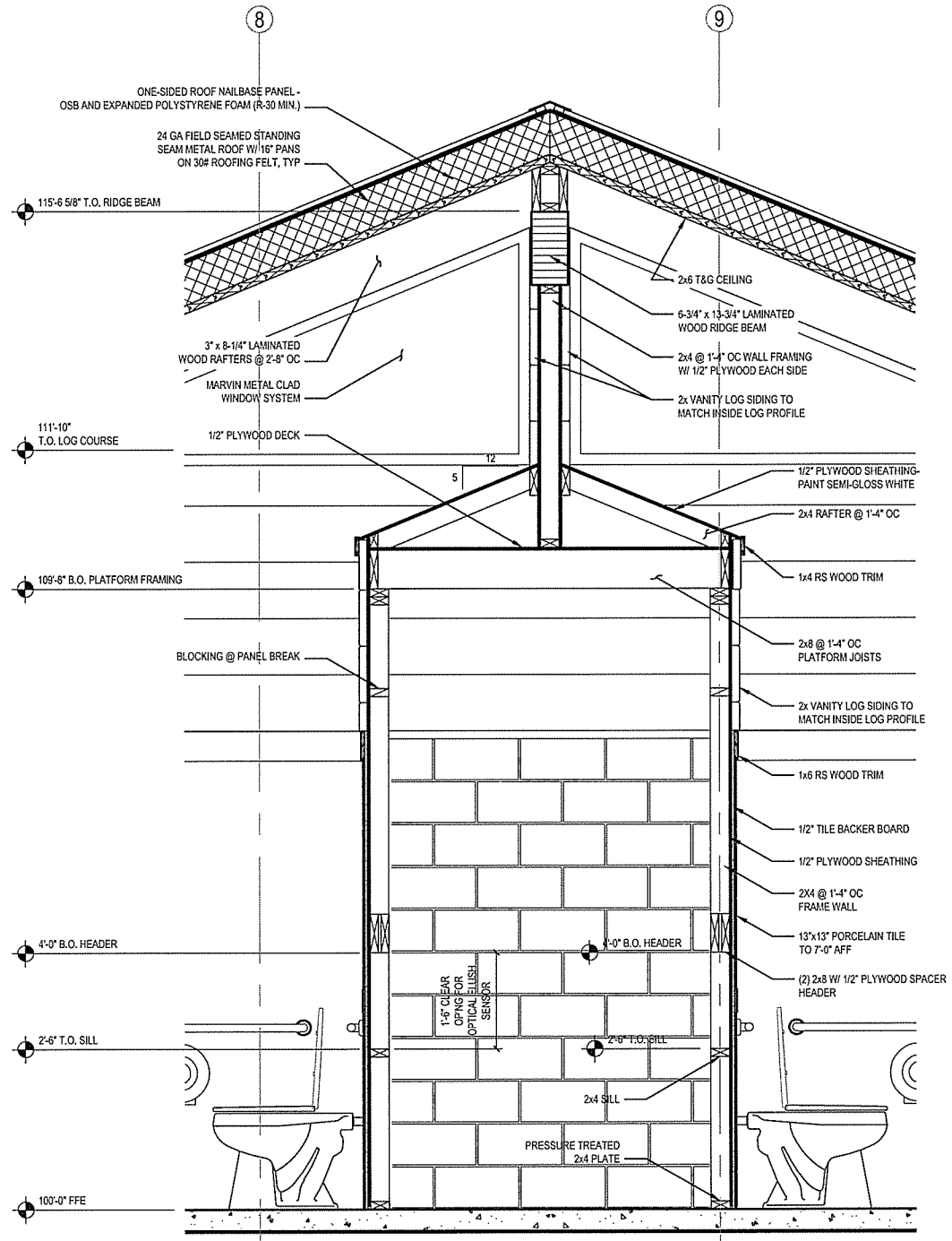
SECTION DETAILS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-310
REV	
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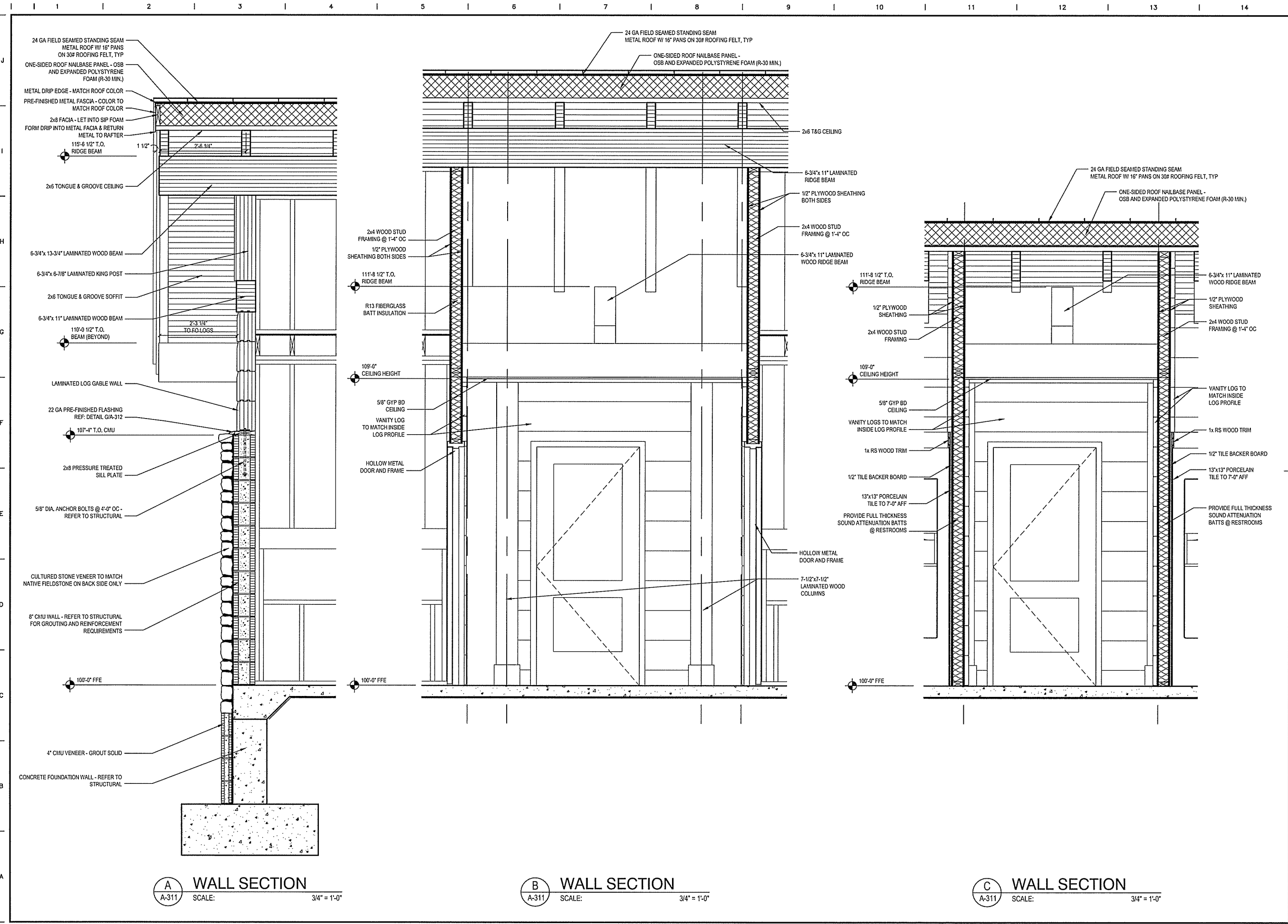
A SECTION DETAIL
 SCALE: 3/4" = 1'-0"



B SECTION DETAIL
 SCALE: 3/4" = 1'-0"

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 Date: September 23, 2015 - 4:39pm
 User: bryson



A WALL SECTION
 A-311 SCALE: 3/4" = 1'-0"

B WALL SECTION
 A-311 SCALE: 3/4" = 1'-0"

C WALL SECTION
 A-311 SCALE: 3/4" = 1'-0"


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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SECTION DETAILS


 JOSEPH S. JOHNSON
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS


 Leidos Engineering LLC
 No. C-255
 ARKANSAS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-311
REV	
59 OF 114	

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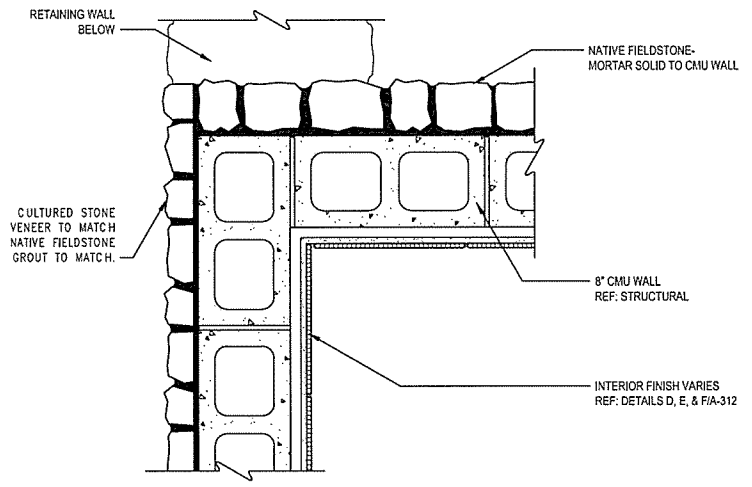
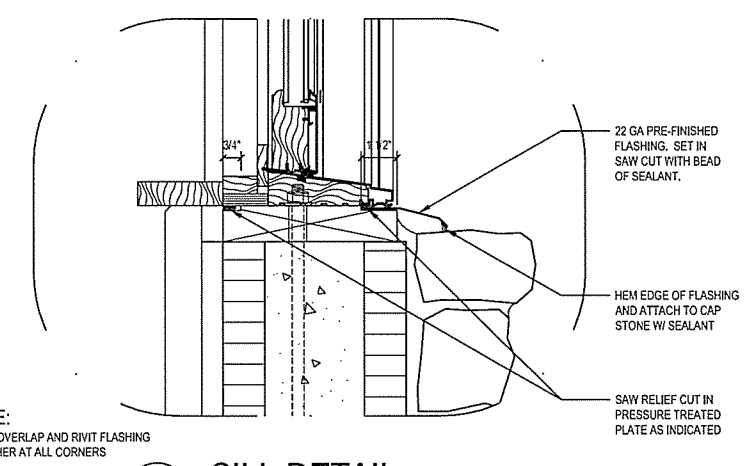
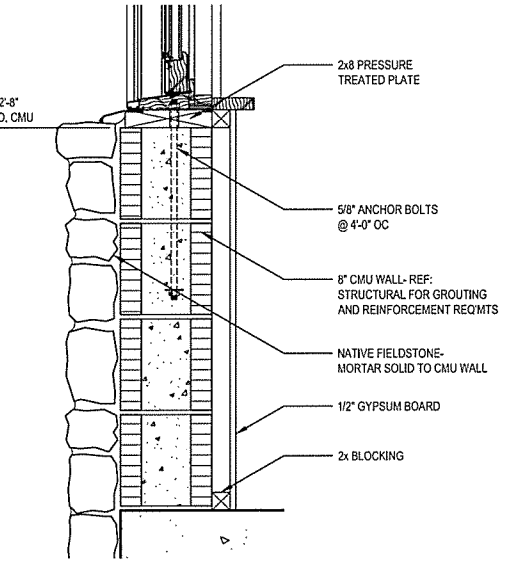
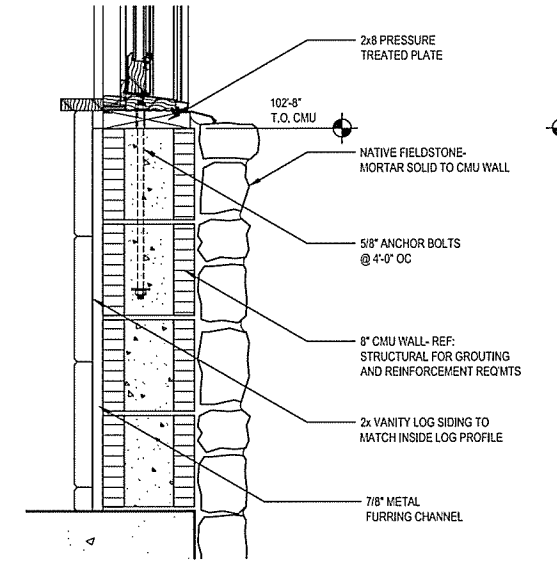
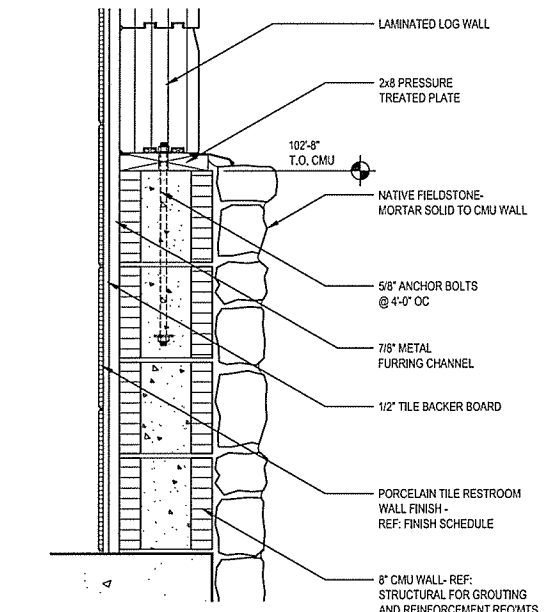
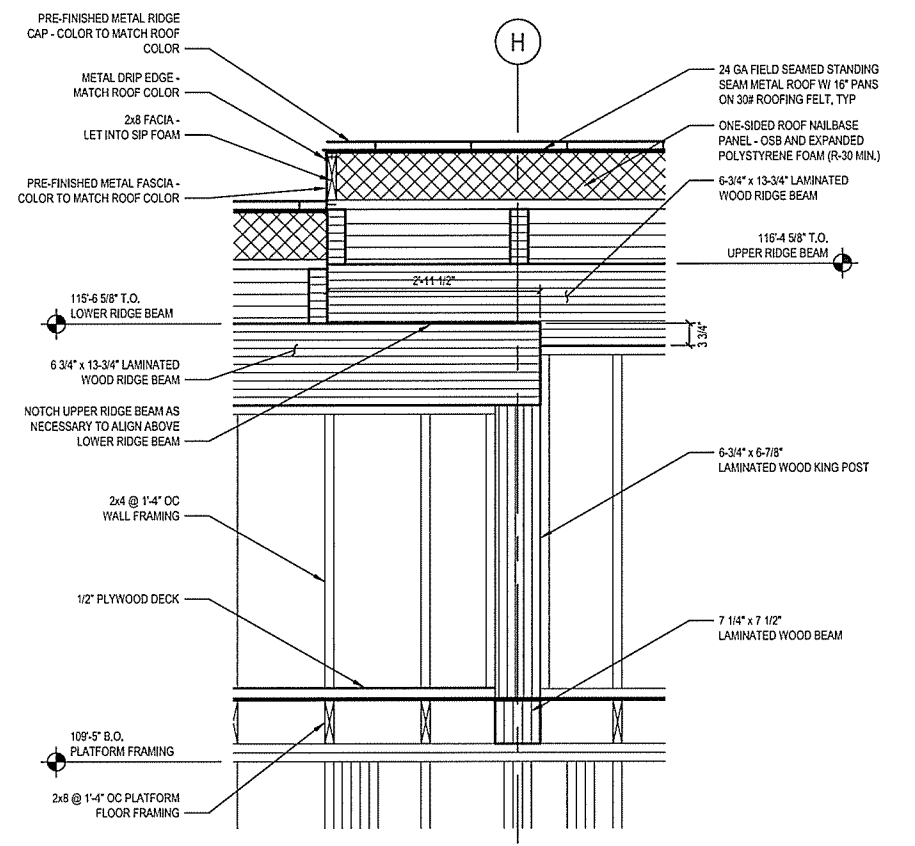
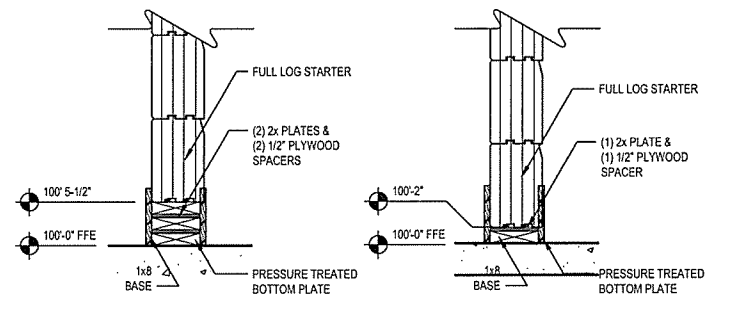
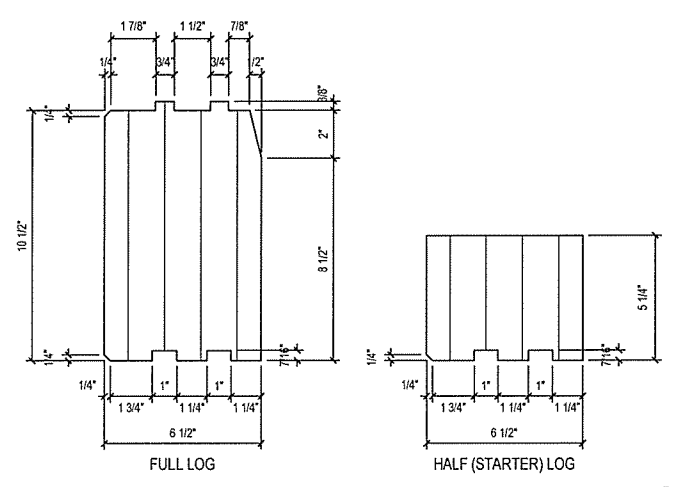
NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SECTION DETAILS

JOSEPH S. ROSS
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS
 REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

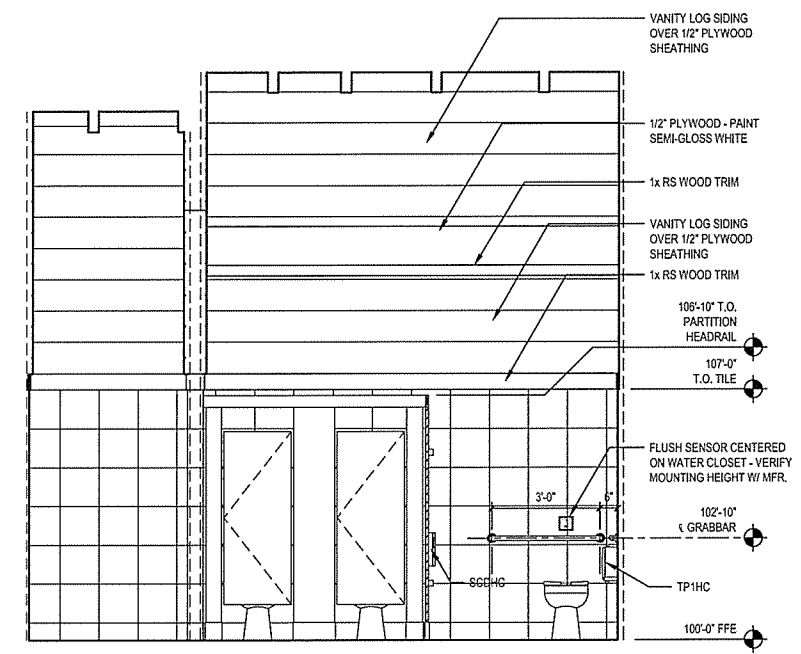
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-312
REV	
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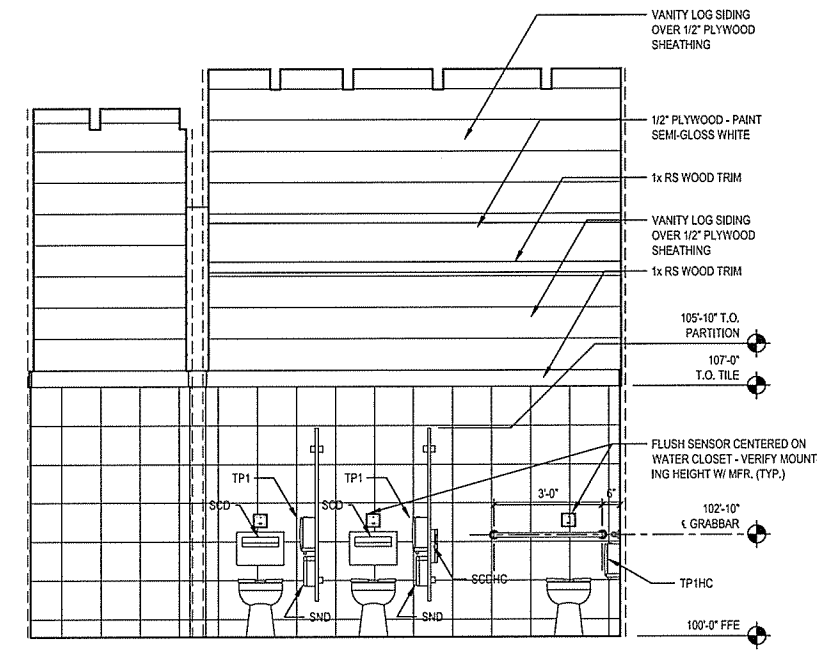


NOTE:
 MITER, OVERLAP AND RIVET FLASHING TOGETHER AT ALL CORNERS

File name: W:\EDGAR Highway Dept\313841 - AHTD Welcome Center\2D_DESIGN\40_CAD\AHC_Red River\A-401 INTERIOR ELEVATIONS.dwg
 Date: September 23, 2015 - 4:37pm
 User: bysona



WOMEN'S TOILET 109 - SOUTH ELEVATION
 A-401 SCALE: 3/8" = 1'-0"



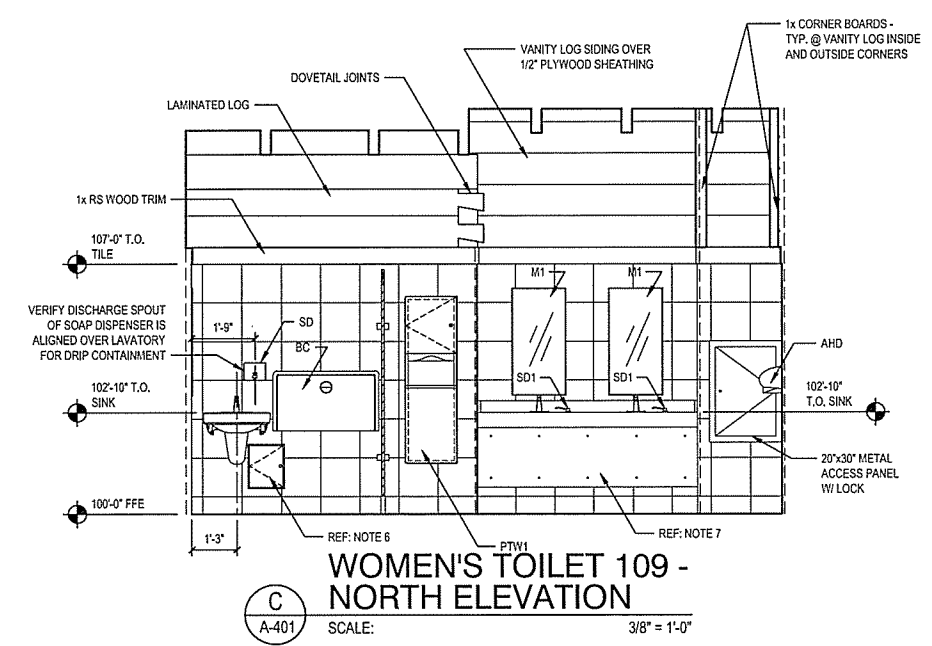
WOMEN'S TOILET 109 - SOUTH ELEVATION
 B-401 SCALE: 3/8" = 1'-0"

TOILET ROOM NOTES:

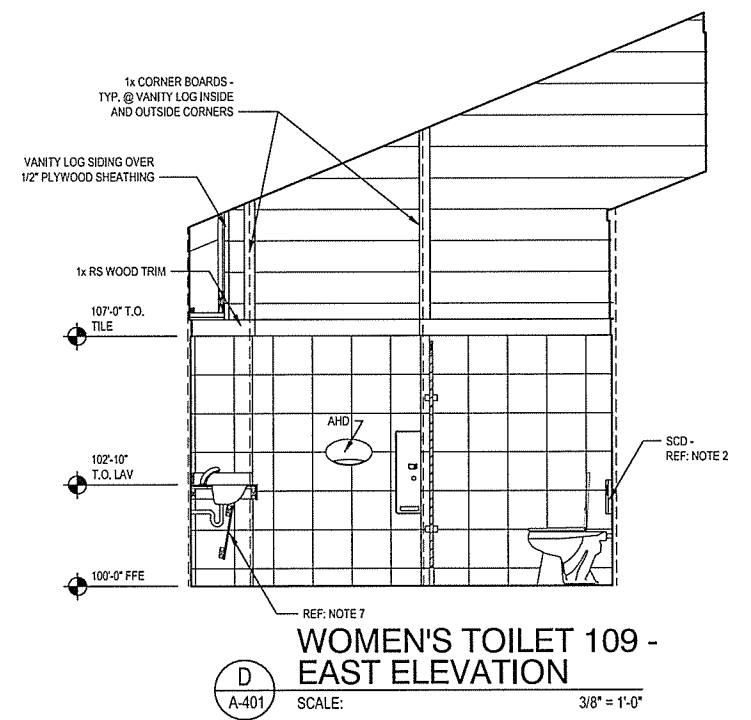
- REFER TO SHEET A-103 FOR TOILET ACCESSORY ABBREVIATIONS AND MOUNTING HEIGHTS.
- SPECIFIED SEAT COVER DISPENSERS ARE BOTTOM LOADING. VERIFY ADEQUATE CLEARANCE ABOVE WATER CLOSET FOR PROPER LOADING.
- FLUSH SENSORS SHALL BE CENTERED ON CORRESPONDING FIXTURES. VERIFY MANUFACTURER'S RECOMMENDED MOUNTING HEIGHT TO AVOID INTERFERENCE FROM TOILET SEATS LEFT IN RAISED POSITION.
- COORDINATE GRAB BAR INSTALLATION TO AVOID INTERFERENCE WITH FINAL INSTALLED LOCATION OF FLUSH SENSOR. GRAB BARS MAY BE INSTALLED BETWEEN 2'-9" (MINIMUM) AND 3'-0" (MAXIMUM) ABOVE FINISHED FLOOR (MEASURED TO THE TOP OF THE GRIPPING SURFACE).
- ALL TOILETS, TOILET PARTITIONS AND TOILET ROOM ACCESSORIES SHALL BE INSTALLED IAW THE REQUIREMENTS OF ICC/ANSI A117.1-2003.

TOILET ROOM NOTES (CONT.):

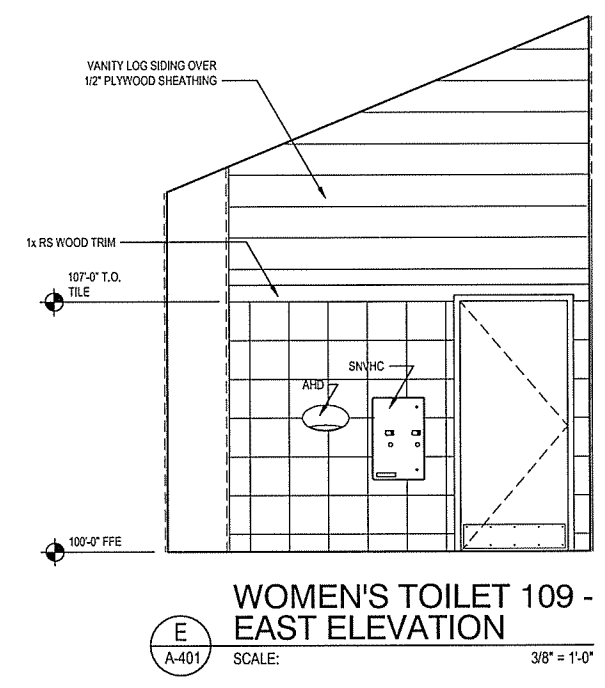
- STAINLESS STEEL SECURITY BOX RECESSED IN BLOCK WALL TO CONTAIN AUTOMATIC FAUCET SENSOR CONTROLS, POWER CONNECTIONS AND MIXING VALVE. VERIFY MINIMUM SIZE REQUIRED FOR INSTALLED EQUIPMENT AND TO MAINTAIN COMPACT INSTALLATION. SUBMIT SECURITY BOX CUT SHEET TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION AND COORDINATE TRADES AS NECESSARY.
- SOLID SURFACING FRONT ACCESS PANEL SHALL BE CONSTRUCTED IN TWO PIECES. PROVIDE SCREWS FOR PERIODIC MAINTENANCE REMOVAL.



WOMEN'S TOILET 109 - NORTH ELEVATION
 C-401 SCALE: 3/8" = 1'-0"





WOMEN'S TOILET 109 - EAST ELEVATION
 D-401 SCALE: 3/8" = 1'-0"



WOMEN'S TOILET 109 - EAST ELEVATION
 E-401 SCALE: 3/8" = 1'-0"

NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

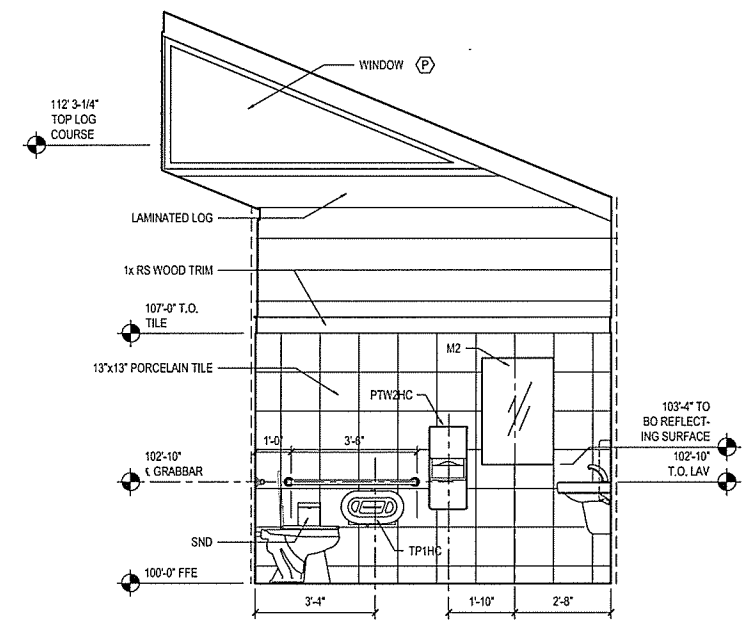
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 INTERIOR ELEVATIONS



DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

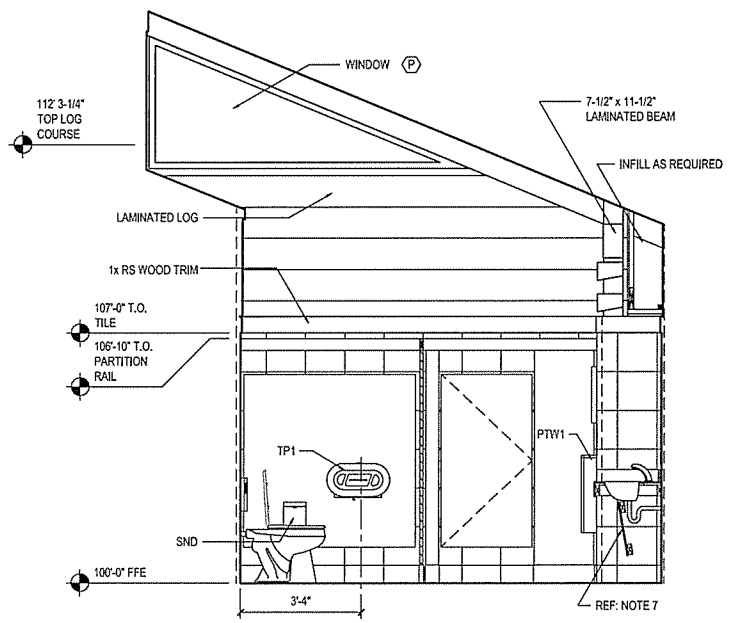
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SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-401
REV	61 OF 114

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 Date: September 23, 2015 - 4:31pm
 User: blysoza

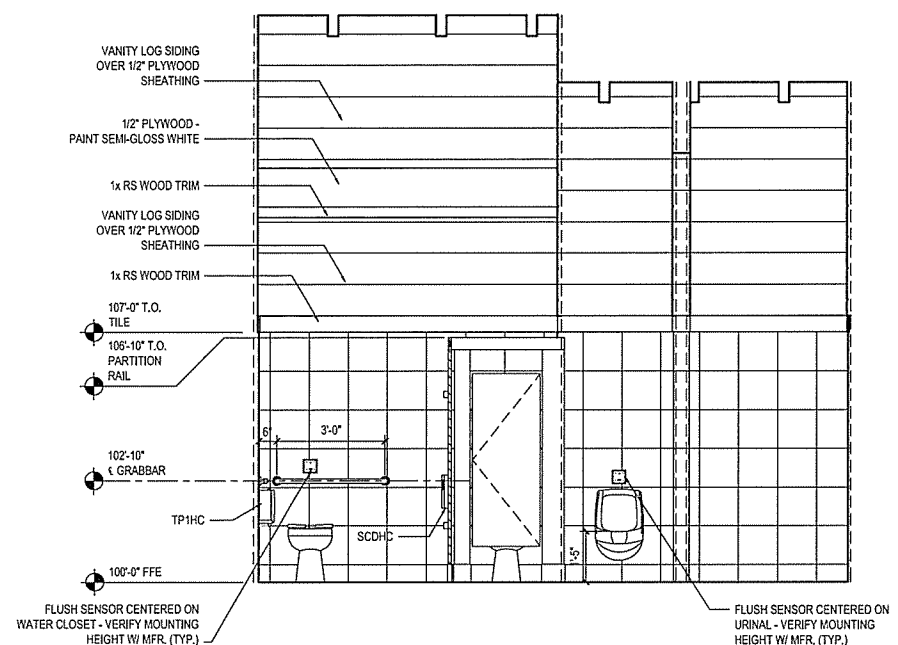
NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				



A WOMEN'S TOILET 109 - WEST ELEVATION
 SCALE: 3/8" = 1'-0"



B WOMEN'S TOILET 109 - WEST ELEVATION
 SCALE: 3/8" = 1'-0"



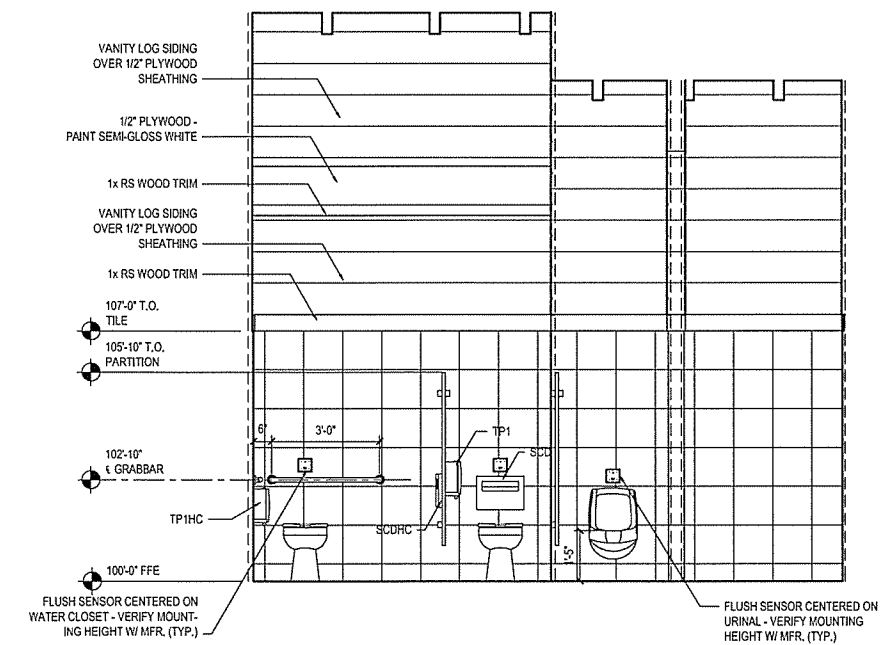
C MEN'S TOILET 107 - NORTH ELEVATION
 SCALE: 3/8" = 1'-0"

TOILET ROOM NOTES:

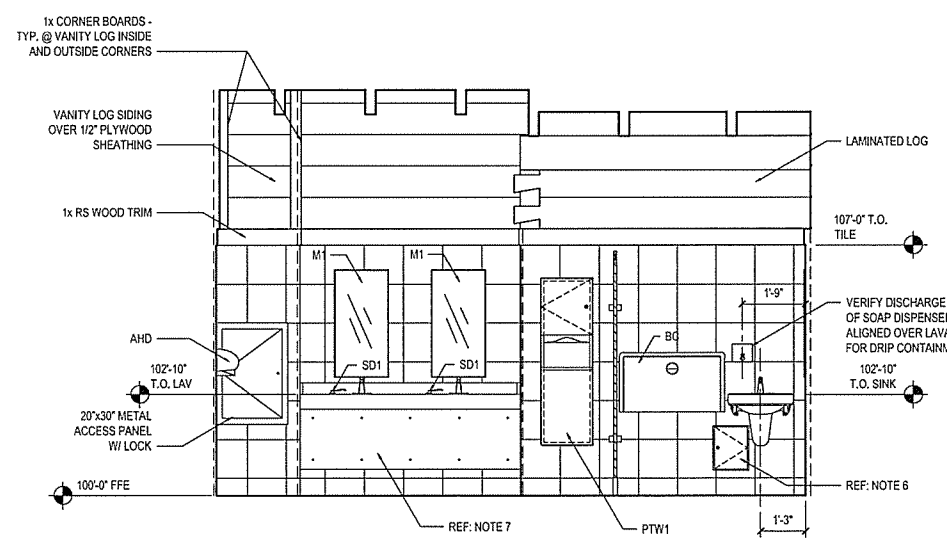
- REFER TO SHEET A-103 FOR TOILET ACCESSORY ABBREVIATIONS AND MOUNTING HEIGHTS.
- SPECIFIED SEAT COVER DISPENSERS ARE BOTTOM LOADING. VERIFY ADEQUATE CLEARANCE ABOVE WATER CLOSET FOR PROPER LOADING.
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- ALL TOILETS, TOILET PARTITIONS AND TOILET ROOM ACCESSORIES SHALL BE INSTALLED IAW THE REQUIREMENTS OF ICC/ANSI A117.1-2003.

TOILET ROOM NOTES (CONT.):

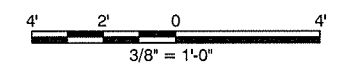
- STAINLESS STEEL SECURITY BOX RECESSED IN BLOCK WALL TO CONTAIN AUTOMATIC FAUCET SENSOR CONTROLS, POWER CONNECTIONS AND MIXING VALVE. VERIFY MINIMUM SIZE REQUIRED FOR INSTALLED EQUIPMENT AND TO MAINTAIN COMPACT INSTALLATION. SUBMIT SECURITY BOX CUT SHEET TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION AND COORDINATE TRADES AS NECESSARY.
- SOLID SURFACING FRONT ACCESS PANEL SHALL BE CONSTRUCTED IN TWO PIECES. PROVIDE SCREWS FOR PERIODIC MAINTENANCE REMOVAL.



D MEN'S TOILET 107 - NORTH ELEVATION
 SCALE: 3/8" = 1'-0"



E MEN'S TOILET 107 - SOUTH ELEVATION
 SCALE: 3/8" = 1'-0"

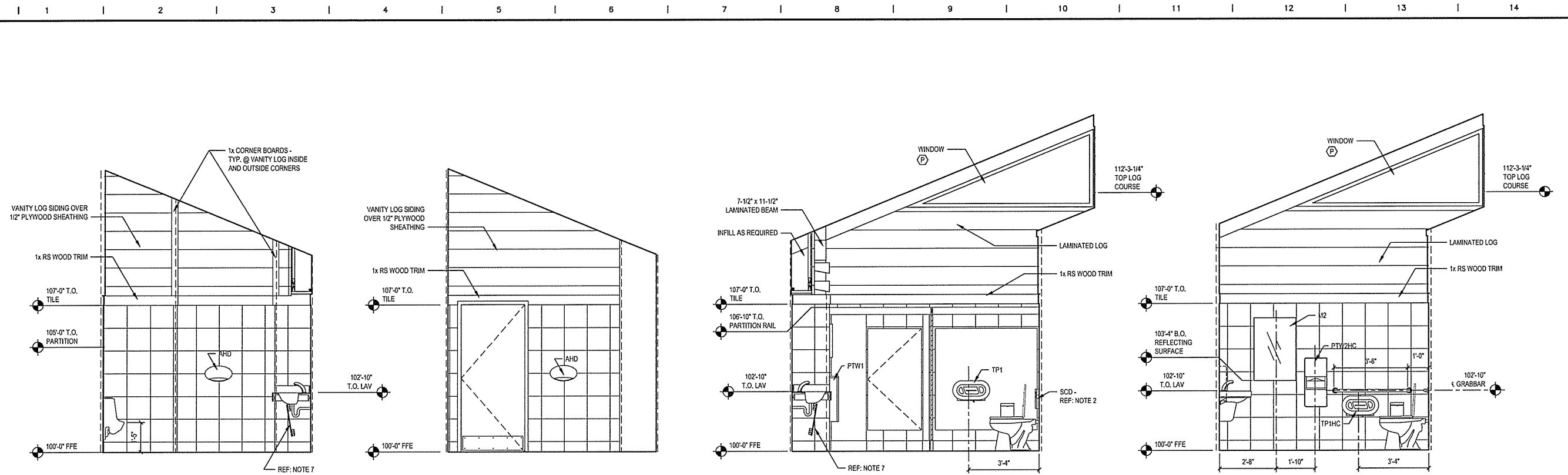


ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 INTERIOR ELEVATIONS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-402
REV	62 OF 114

File name: \\FEB\B\B\Highway\Draw\13841 - AHTD>Welcome Center\20_DESIGN\403_CAD\A\A-C_Rev_Riser\A-A-403 INTERIOR ELEVATIONS.dwg
 Date: September 23, 2015 - 4:31pm
 User: blysona



A MEN'S TOILET 107 - EAST ELEVATION
SCALE: 3/8" = 1'-0"

B MEN'S TOILET 107 - EAST ELEVATION
SCALE: 3/8" = 1'-0"

C MEN'S TOILET 107 - WEST ELEVATION
SCALE: 3/8" = 1'-0"

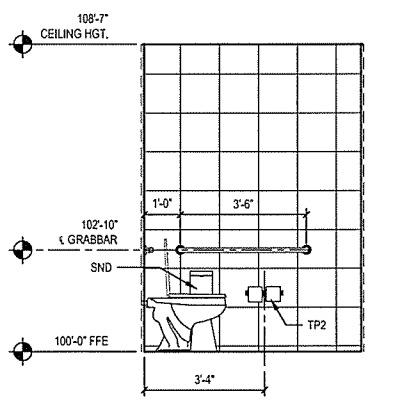
D MEN'S TOILET 107 - WEST ELEVATION
SCALE: 3/8" = 1'-0"

TOILET ROOM NOTES:

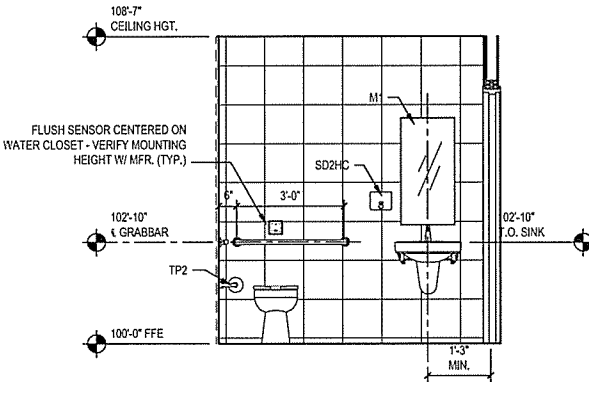
- REFER TO SHEET A-103 FOR TOILET ACCESSORY ABBREVIATIONS AND MOUNTING HEIGHTS.
- SPECIFIED SEAT COVER DISPENSERS ARE BOTTOM LOADING. VERIFY ADEQUATE CLEARANCE ABOVE WATER CLOSET FOR PROPER LOADING.
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TOILET ROOM NOTES (CONT.):

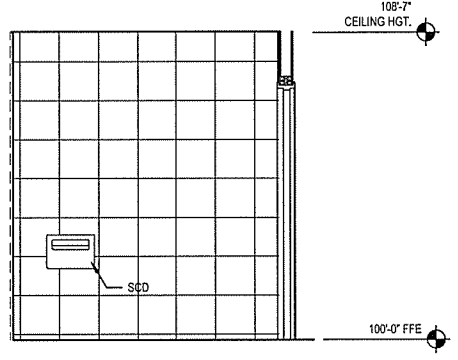
- STAINLESS STEEL SECURITY BOX RECESSED IN BLOCK WALL TO CONTAIN AUTOMATIC FAUCET SENSOR CONTROLS, POWER CONNECTIONS AND MIXING VALVE. VERIFY MINIMUM SIZE REQUIRED FOR INSTALLED EQUIPMENT AND TO MAINTAIN COMPACT INSTALLATION. SUBMIT SECURITY BOX CUT SHEET TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION AND COORDINATE TRADES AS NECESSARY.
- SOLID SURFACING FRONT ACCESS PANEL SHALL BE CONSTRUCTED IN TWO PIECES. PROVIDE SCREWS FOR PERIODIC MAINTENANCE REMOVAL.



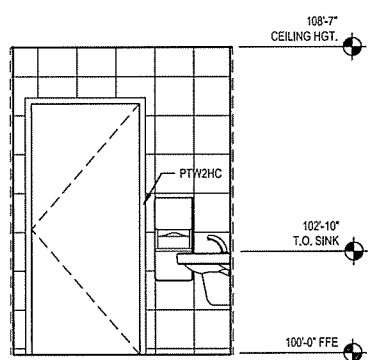
E STAFF TOILET 105 - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



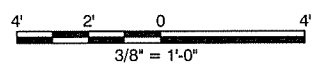
F STAFF TOILET 105 - WEST ELEVATION
SCALE: 3/8" = 1'-0"



G STAFF TOILET 105 - EAST ELEVATION
SCALE: 3/8" = 1'-0"



H STAFF TOILET 105 - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

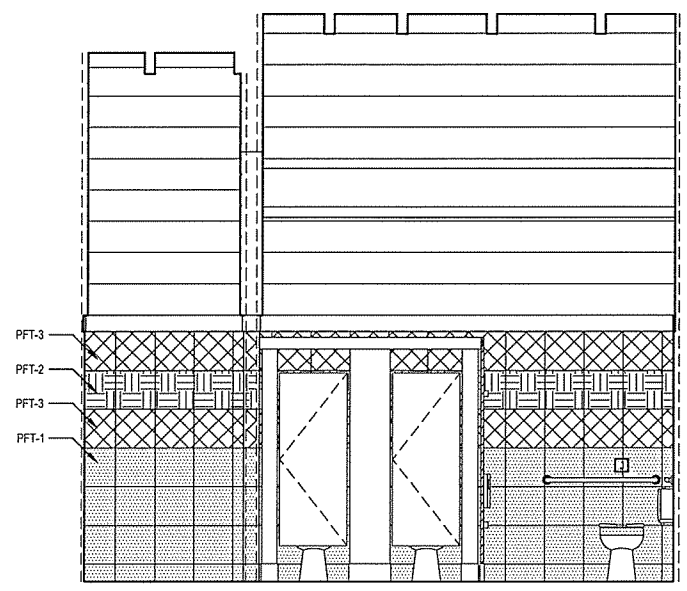
REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255

INTERIOR ELEVATIONS

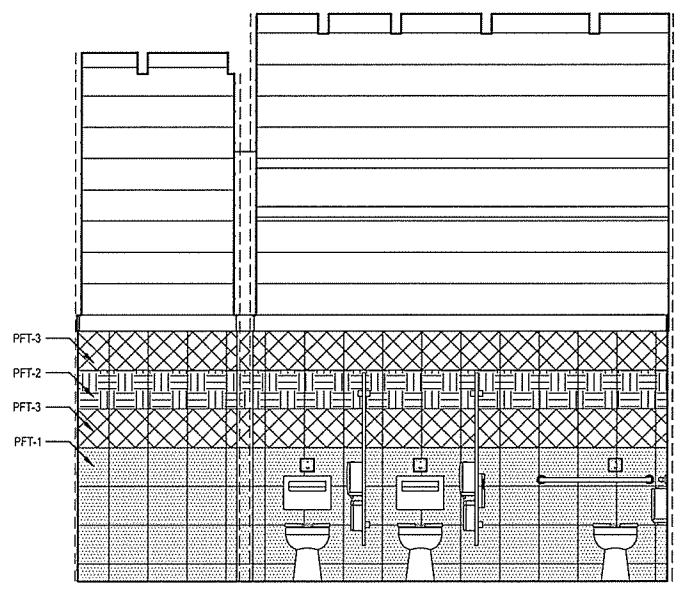
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DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-403
	REV
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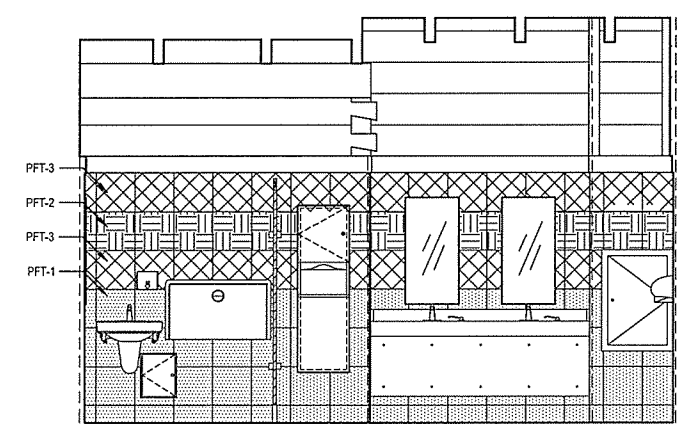
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 Date: September 23, 2015 - 4:31pm
 User: bryson



A WOMEN'S TOILET 109 - SOUTH ELEVATION
 A-404 SCALE: 3/8" = 1' - 0"

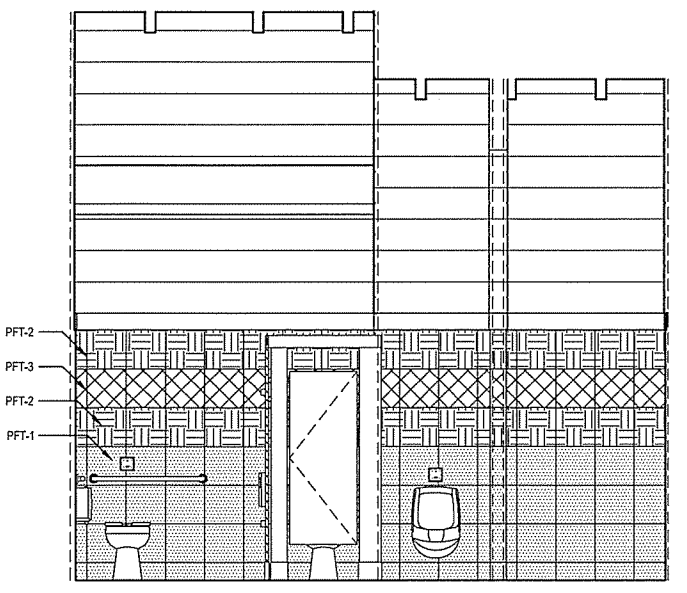


B WOMEN'S TOILET 109 - SOUTH ELEVATION
 A-404 SCALE: 3/8" = 1' - 0"

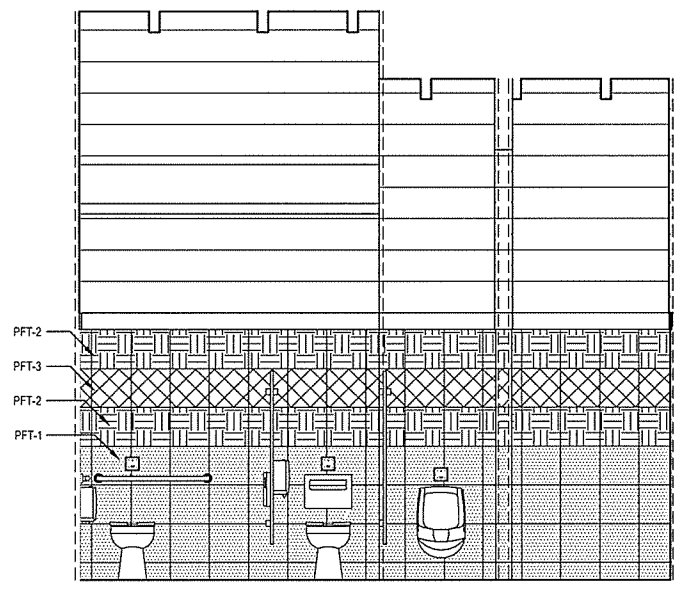


C WOMEN'S TOILET 109 - NORTH ELEVATION
 A-404 SCALE: 3/8" = 1' - 0"

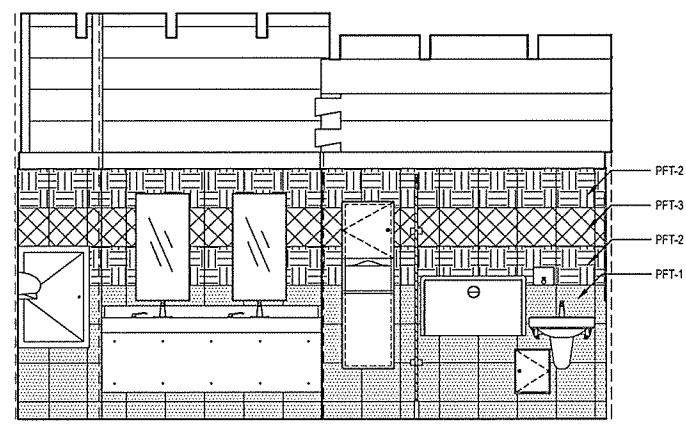
- TOILET ROOM NOTES:**
1. WALL PATTERN TO BE CONTINUOUS AROUND THE PERIMETER OF THE ROOM. ELEVATIONS SHOWN ARE TYPICAL FOR ALL WALLS.
 2. ALL FLOOR GROUT JOINTS MUST ALIGN WITH WALL GROUT JOINTS.
 3. INSTALL FULL 13X13 TILE AT CEILING AND PROGRESS INSTALLATION TO THE FLOOR.
TRIM EXCESS FROM BOTTOM TILE TO INDICATE "BASE". WALL BASE TILE SHOULD BE APPROXIMATELY 6"H.



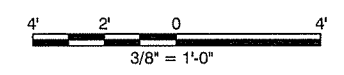
D MEN'S TOILET 107 - NORTH ELEVATION
 A-404 SCALE: 3/8" = 1' - 0"



E MEN'S TOILET 107 - NORTH ELEVATION
 A-404 SCALE: 3/8" = 1' - 0"



F MEN'S TOILET 107 - SOUTH ELEVATION
 A-404 SCALE: 3/8" = 1' - 0"



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ARKANSAS WELCOME CENTER
 RED RIVER
 INTERIOR ELEVATIONS

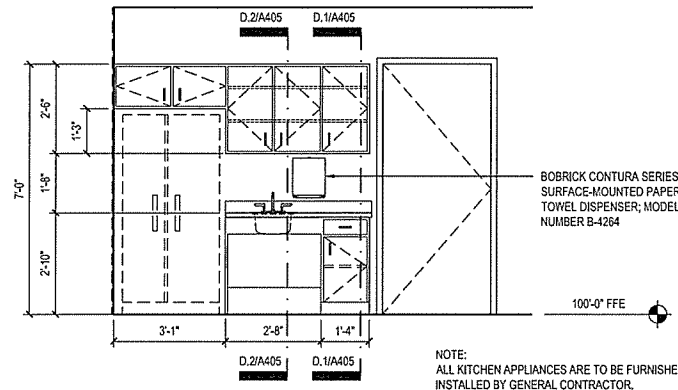
REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

REGISTERED ARCHITECT
 JOSEPH S. FORBES
 No. 2365
 ARKANSAS

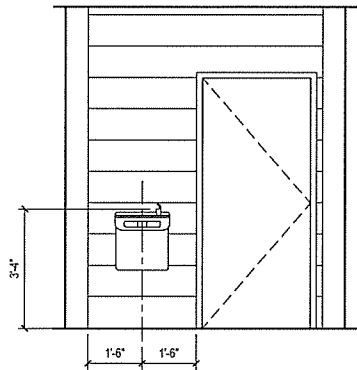
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-404
REV	
64 OF 114	

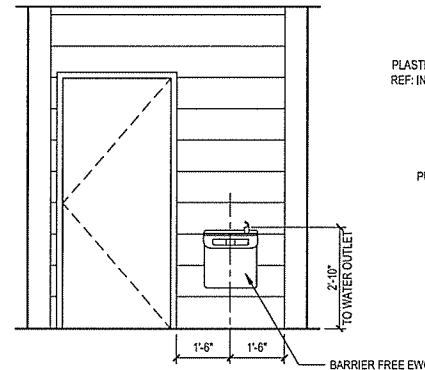
File name: V:\E\BAR Highway Data\313841 - AHTD Welcome Centers\20_DESIGN\40_CAD\A\WC_Red River\A-A405 INTERIOR ELEVATIONS.dwg
 Date: September 23, 2015 - 4:31pm
 User: bryana



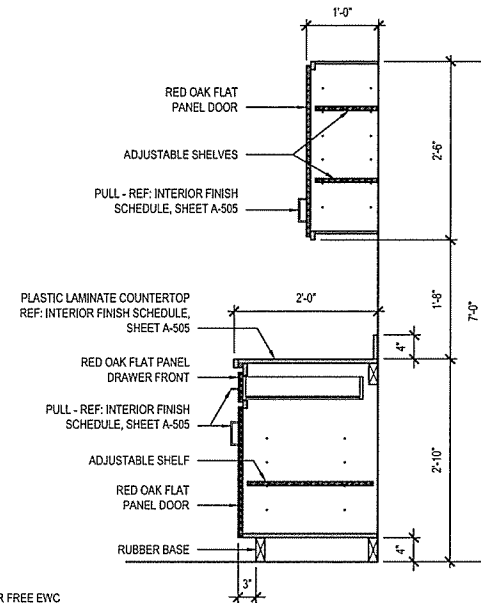
A WORK ROOM 104 - WEST ELEVATION
 A-405 SCALE: 3/8" = 1' - 0"



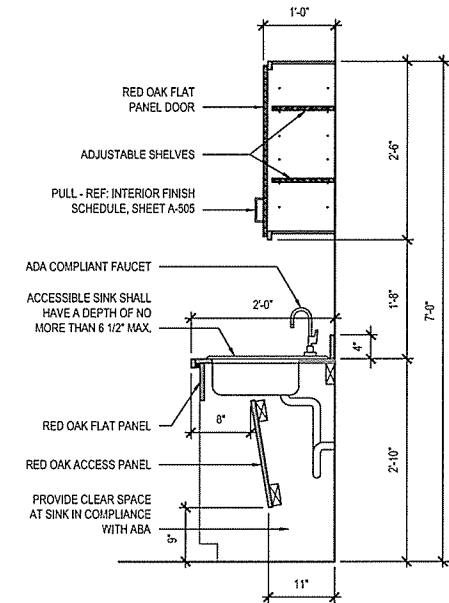
B WEST WATER COOLER
 A-405 SCALE: 3/8" = 1' - 0"



C EAST WATER COOLER
 A-405 SCALE: 3/8" = 1' - 0"

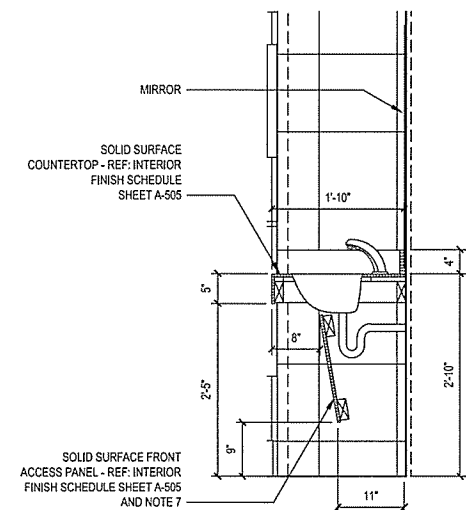


D.1

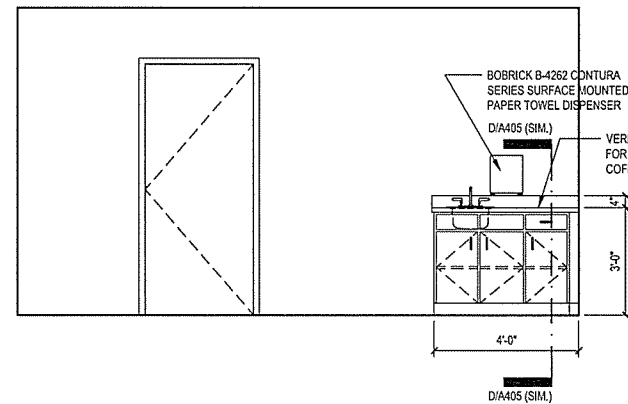


D.2

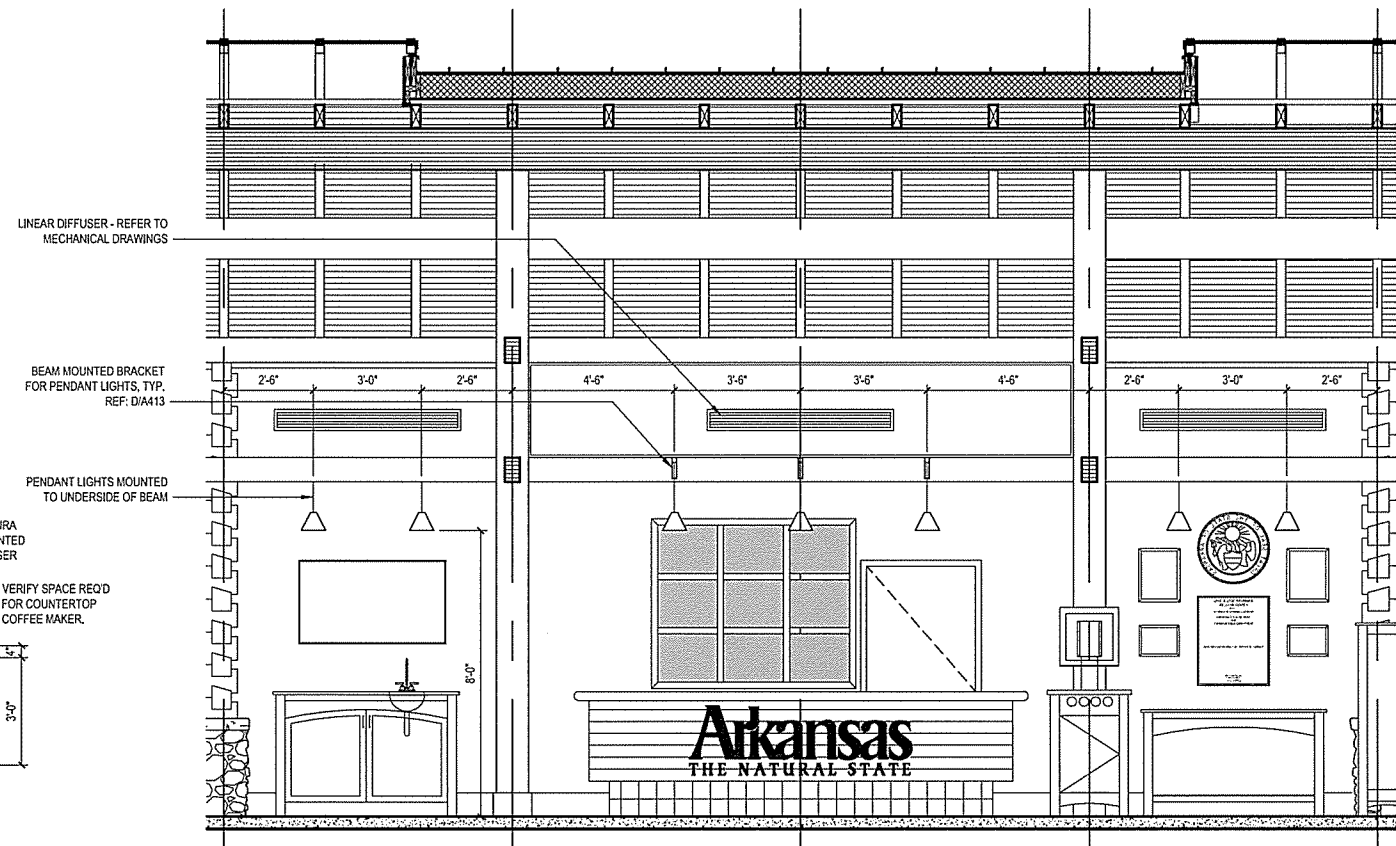
D TYPICAL KITCHEN CABINET SECTIONS
 A-405 SCALE: 3/4" = 1' - 0"



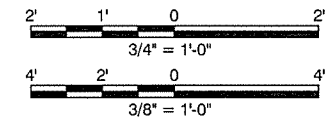
E TYPICAL LAVATORY SECTION
 A-405 SCALE: 3/4" = 1' - 0"



F STORAGE 106 - COFFEE COUNTER
 A-405 SCALE: 3/8" = 1' - 0"



G CUSTOMER SERVICE LIGHTING DETAIL
 A-405 SCALE: 3/8" = 1' - 0"



NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015	ISSUED FOR BID		

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 INTERIOR ELEVATIONS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-405
REV	65 OF 114

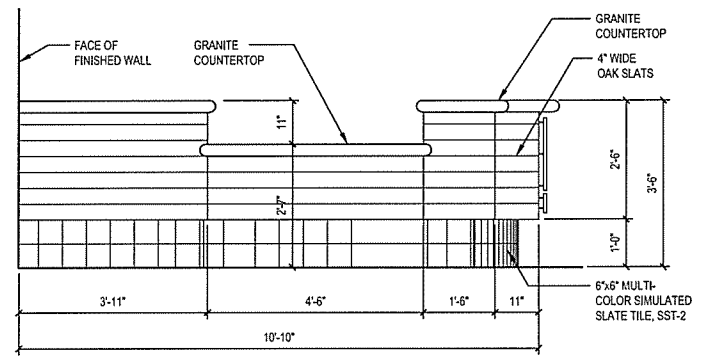
File name: W:\EDBAR Highway\Draw\313841 - AHTD Welcome Center\3D_CAD\AWC_Rec\River\AW-A06 MILLWORK DETAILS RECEPTION COUNTER.dwg
 Date: September 23, 2015 - 4:37pm
 User: brysona

NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

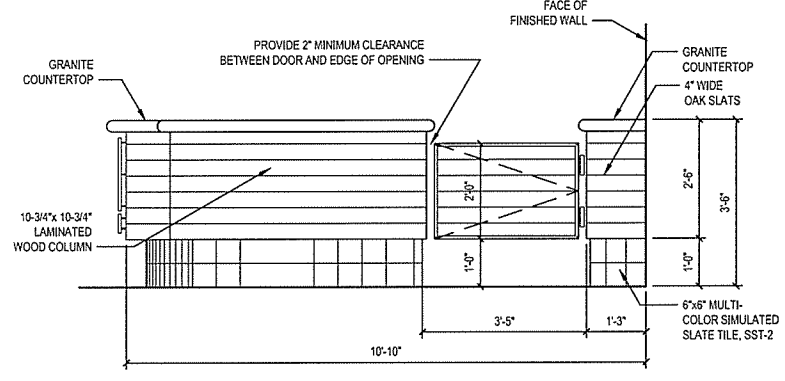
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS RECEPTION COUNTER

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

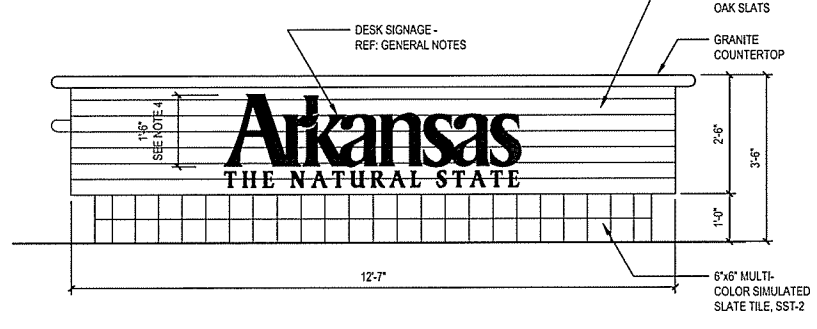
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-406
REV	
66 OF 114	



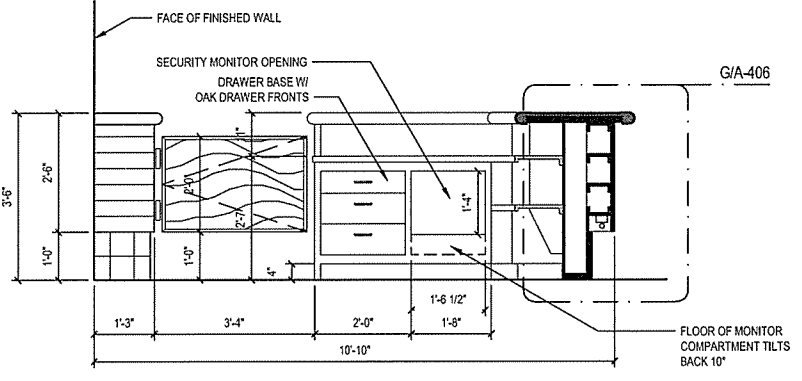
A RECEPTION DESK - LEFT SIDE
 SCALE: 1/2" = 1'-0"



B RECEPTION DESK - RIGHT SIDE
 SCALE: 1/2" = 1'-0"

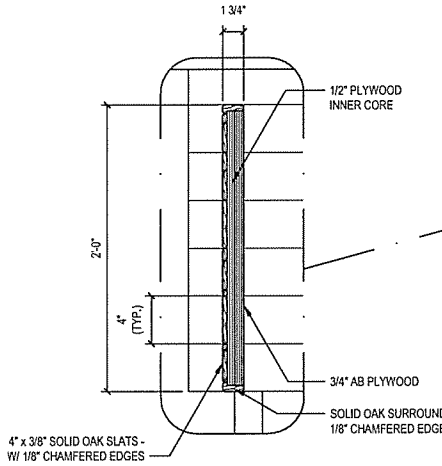


C RECEPTION DESK - PUBLIC SIDE
 SCALE: 1/2" = 1'-0"

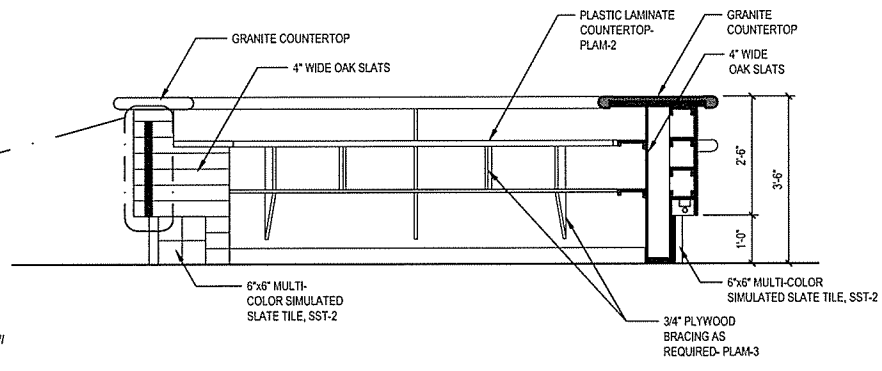


D RECEPTION DESK - EMPLOYEE SIDE - LEFT ELEVATION
 SCALE: 1/2" = 1'-0"

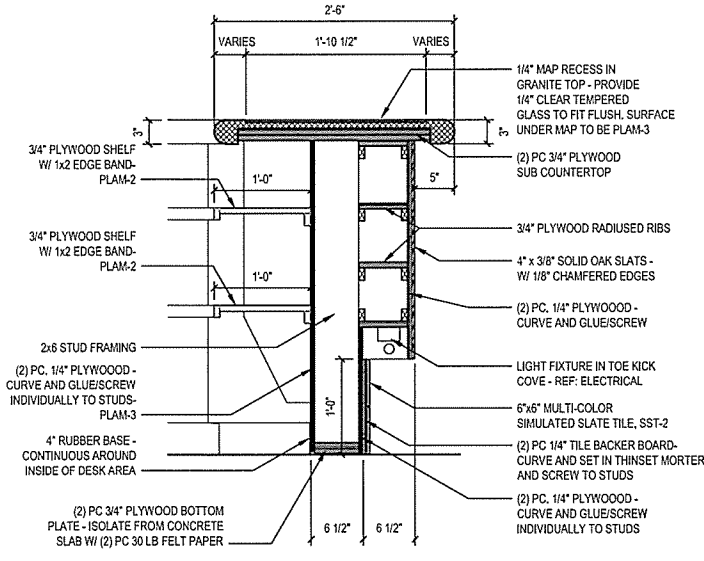
- GENERAL SIGNAGE NOTES:**
- "ARKANSAS THE NATURAL STATE" IS A REGISTERED TRADEMARK OF THE STATE OF ARKANSAS. FONT MUST BE LAW REGISTERED LOGO. CAMERA-READY ARTWORK FOR THE INDICATED FONT IS AVAILABLE FROM THE ENGINEER.
 - "ARKANSAS" PORTION OF THE SIGNAGE IS TO BE SOLID POLISHED BRASS MOUNTED ON 1/2" STANDOFFS FROM THE FACE OF THE DESK.
 - "THE NATURAL STATE" PORTION OF THE SIGNAGE IS TO BE SOLID BRUSHED ALUMINUM MOUNTED ON 1/2" STANDOFFS FROM THE FACE OF THE DESK.
 - A DIMENSION IS GIVEN TO ESTABLISH THE OVERALL SIZE OF THE SIGNAGE. THE OVERALL PROPORTION OF THE LOGO IS TO BE MAINTAINED AND THE LOGO SHALL BE MOUNTED CENTERED SIDE TO SIDE AND TOP TO BOTTOM.
 - COORDINATE INSTALLATION OF LETTERS. LETTERS SHALL BE SECURED AND REINFORCED FROM THE BACK PRIOR TO INSTALLATION OF INNER DESK FINISHES.



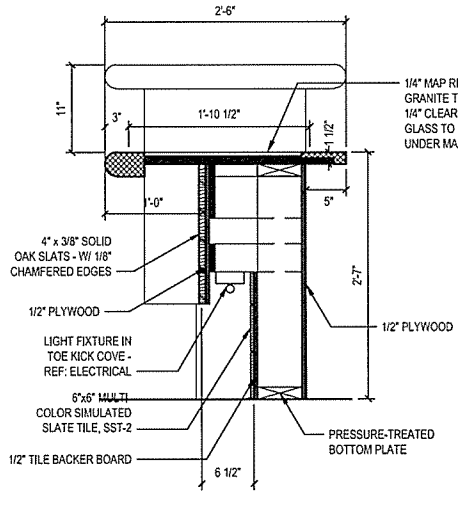
E DOOR DETAIL
 SCALE: 1 1/2" = 1'-0"



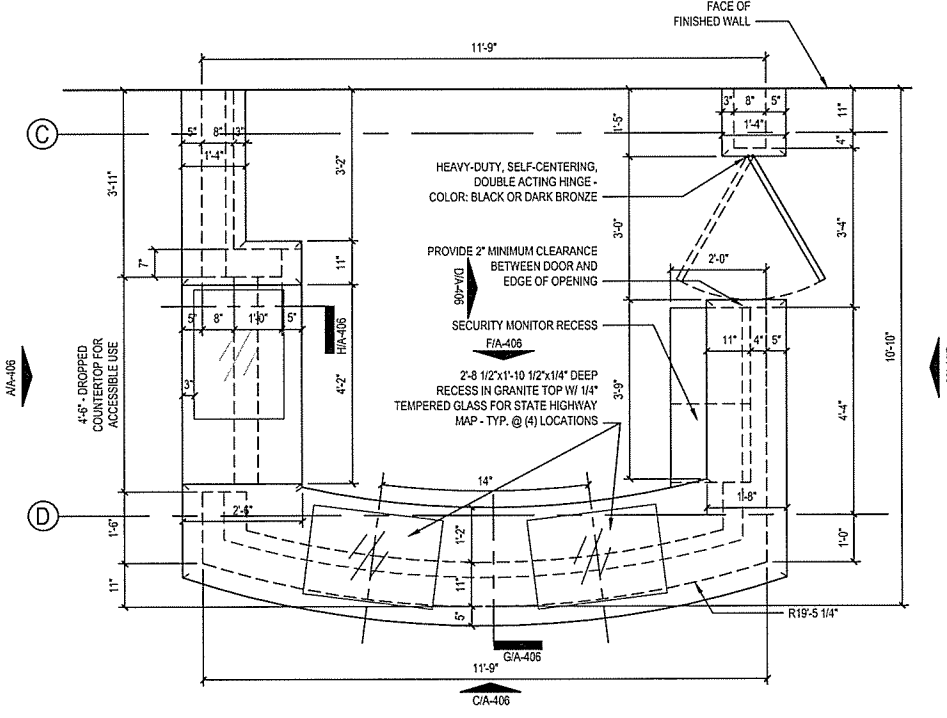
F RECEPTION DESK - EMPLOYEE SIDE
 SCALE: 1/2" = 1'-0" CUT THROUGH SWINGING DOORS



G RECEPTION DESK SECTION
 SCALE: 1" = 1'-0"

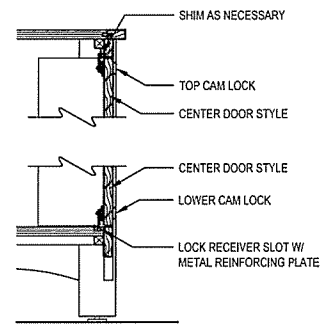


H RECEPTION DESK - @ ACCESSIBLE COUNTER
 SCALE: 1" = 1'-0"



J RECEPTION DESK - PLAN VIEW
 SCALE: 1/2" = 1'-0"

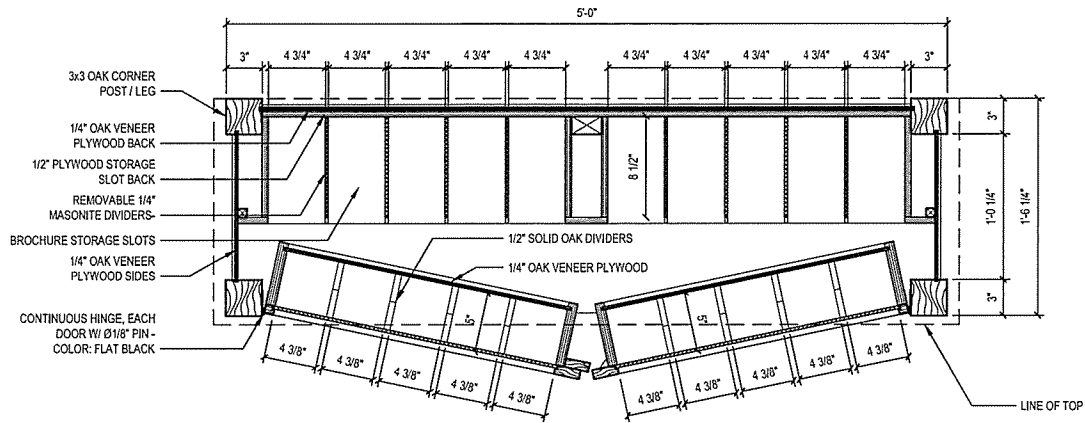
File name: W:\E\B\AR Highway Detail\313841 - ARHT Welcome Center\3D_DESIGN\3D_CAD\A\VC_Ref\Rev\AR-A-407 MILLWORK DETAILS BROCHURE HOLDER.dwg
 Date: September 23, 2015 - 4:31pm
 User: bryson



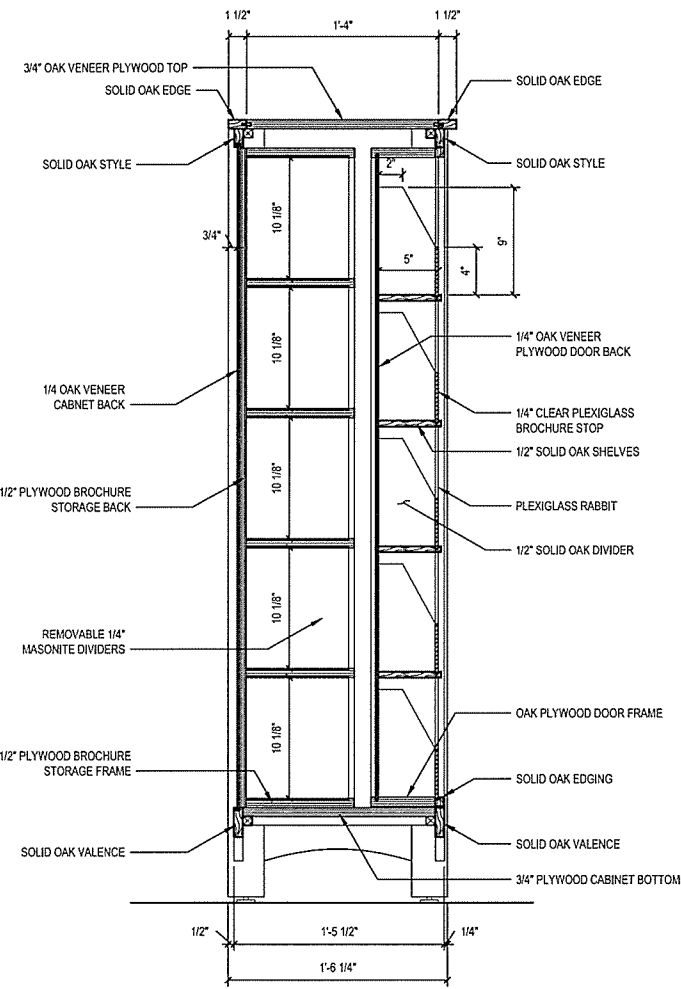
E CAM LOCK DETAIL
 SCALE: 1 1/2" = 1'-0"

GENERAL NOTES:

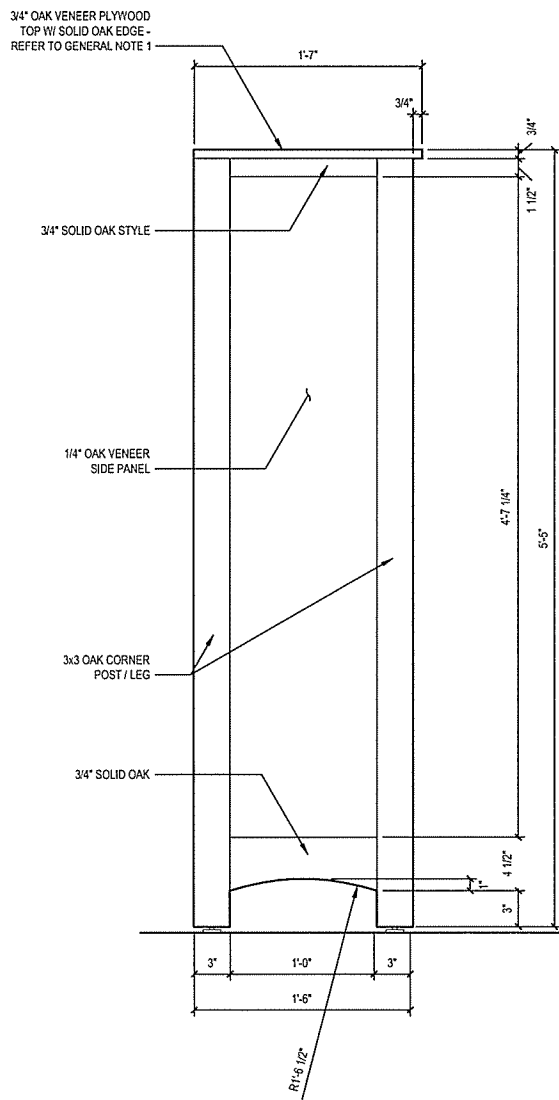
- COORDINATE LEFT OR RIGHT OVERHANGING LIP OF CABINET TOP DEPENDANT ON FINAL INSTALLED LOCATION IN BANKS OF THREE BROCHURE HOLDER UNITS. REFER TO SHEET A-107 FOR INSTALLED LOCATIONS OF UNITS.
- UNITS INSTALLED IN MULTIPLE BANKS SHALL BE ALIGNED AND ADJUSTED AND SCREWED TOGETHER TO ACT AS A SINGLE UNIT.
- UNITS INSTALLED BACK-TO-BACK SHALL BE SCREWED TOGETHER.
- 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
- PLEXIGLASS RABBIT SHALL BE SIZED AND PLEXIGLASS SHALL BE TRIMMED AND FIT TO ALLOW EASY LIFTING IN SLOT FOR DUSTING.
- INACTIVE DOOR SHALL BE SECURED AT THE TOP AND BOTTOM WITH A CONCEALED MECHANISM.
- EQUIP DOORS WITH RAMPS TO MAINTAIN ALIGNMENT WHEN CLOSED AND RELIEVE SHEAR ON CONTINUOUS HINGE.
- KEY ALL CAM LOCKS ALIKE OR PROVIDE MASTER KEY.
- PROVIDE SCREW TYPE ADJUSTABLE LEVELLERS AT EACH 3x3 LEG.
- CABINET BACK AND CABINET SIDE GRAIN SHALL BE RUN VERTICAL.
- PROVIDE (1) REGION IDENTIFIER SIGN FOR EACH INSTALLED BROCHURE CABINET. REFER TO SHEET A-411 FOR SIGN DETAILS.
- SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
- ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.



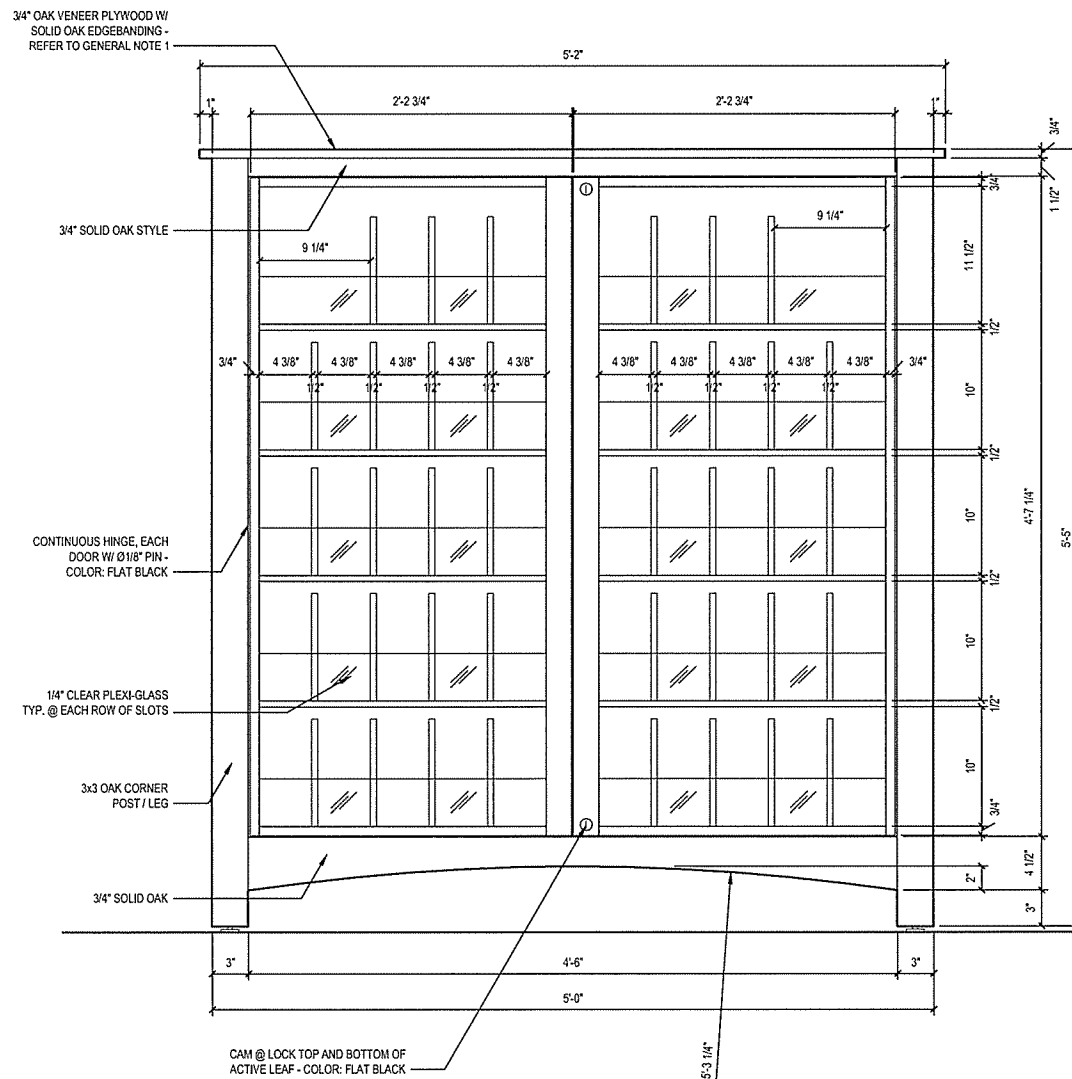
B DETAIL SECTION
 SCALE: 1 1/2" = 1'-0"



D SECTION
 SCALE: 1 1/2" = 1'-0"



C SIDE ELEVATION
 SCALE: 1 1/2" = 1'-0"



A FRONT ELEVATION
 SCALE: 1 1/2" = 1'-0"

leidos
 Leidos Engineering, LLC
 3608 N. Steele Blvd, Suite 105
 Fayetteville, Arkansas 72703
 (479) 442-3060
 www.leidos.com

NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS BROCHURE HOLDER

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-407
REV	

File name: W:\EPD\09 Highway Dept\133841 - ARTD Welcome Center\3D Details\A-408 MILLWORK DETAILS COFFEE BAR.dwg
 Date: September 23, 2015 - 4:31pm
 User: bjs203

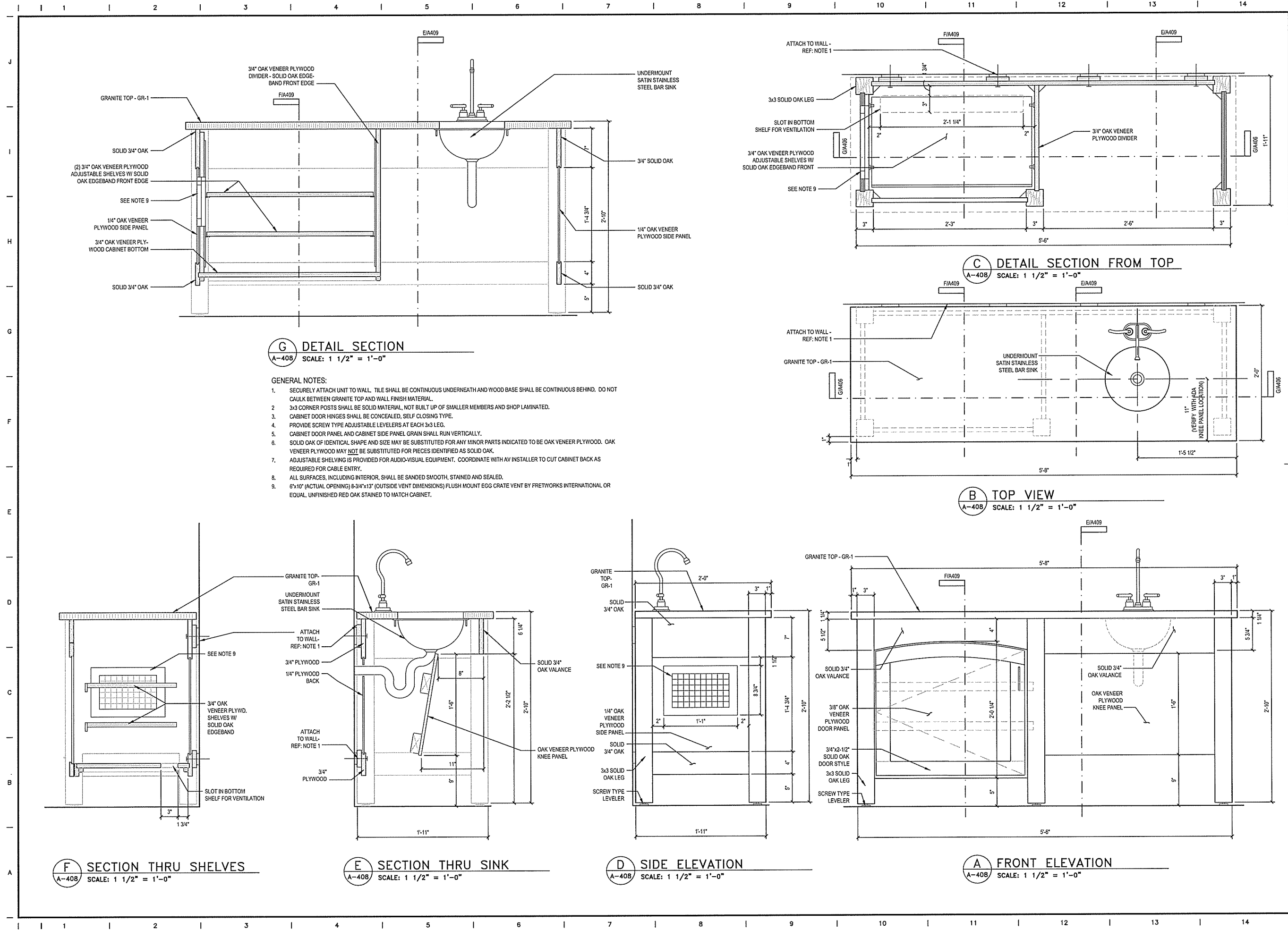
NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS COFFEE BAR

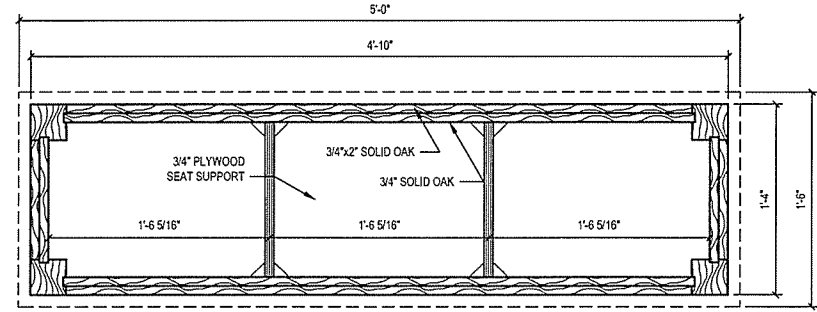
JOSEPH S. BAKER
 REGISTERED ARCHITECT
 No. 2365
 9-23-15
 REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

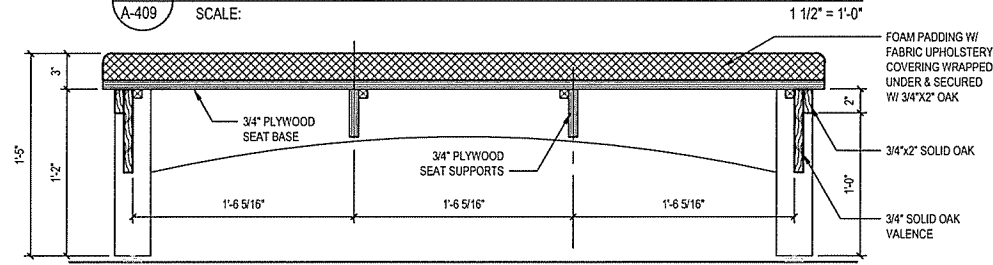
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-408
REV	
68 OF 114	



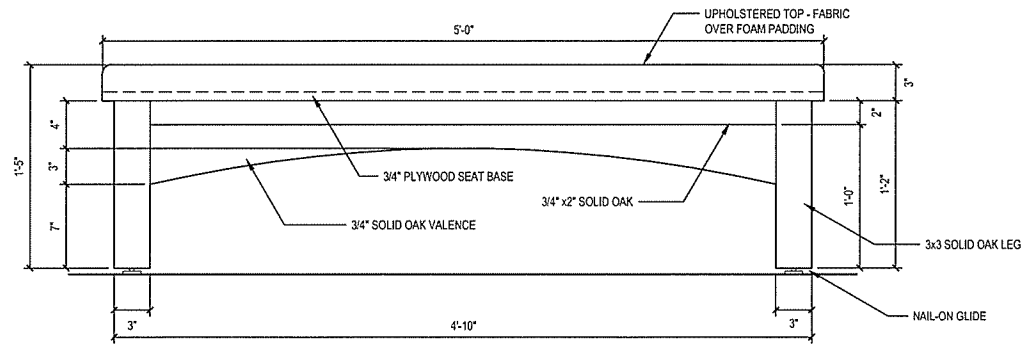
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 Date: September 23, 2015 - 4:37pm
 User: bryson



A MOVABLE BENCH - TOP SECTION
 A-409 SCALE: 1 1/2" = 1'-0"

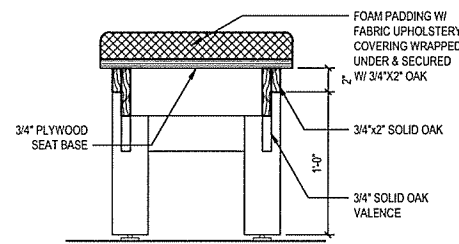


B MOVABLE BENCH - FRONT SECTION
 A-409 SCALE: 1 1/2" = 1'-0"

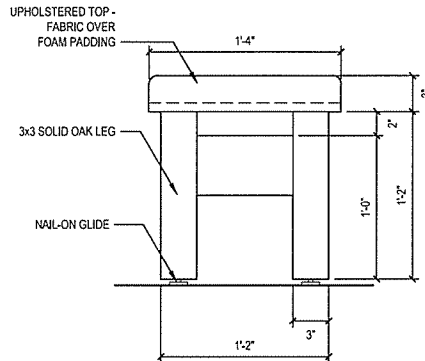


D MOVABLE BENCH - FRONT ELEVATION
 A-409 SCALE: 1 1/2" = 1'-0"

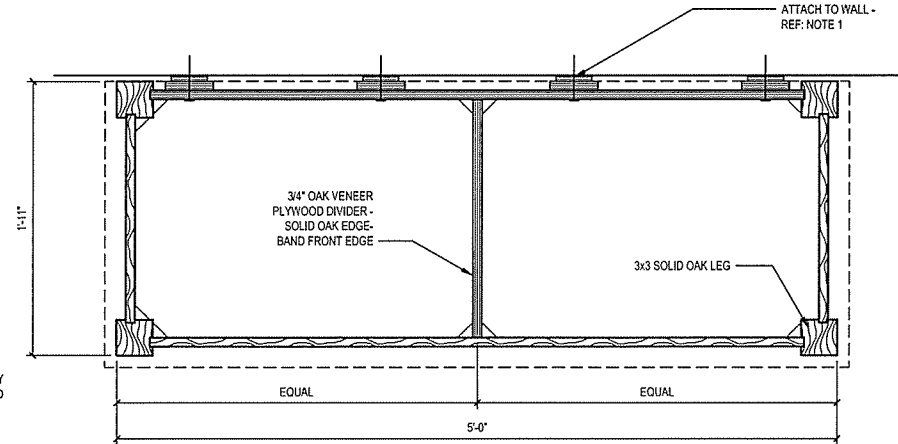
- UPHOLSTERED BENCH GENERAL NOTES:**
1. LIGHTLY EASE THE EDGES OF 3/4" PLYWOOD SEAT BASE TO PREVENT WEAR ON FABRIC.
 2. HIGH RESILIENCE FLEXIBLE POLYURETHANE FOAM SHALL HAVE A DENSITY BETWEEN 2.7 AND 3.0 LBS PER CUBIC FOOT AND A FIRMNESS (INDENTATION-LOAD DEFLECTION) OF 55 LBS MINIMUM. FOAM SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA BUREAU OF HOME FURNISHINGS TECHNICAL BULLETIN NO. 117. FABRIC SHALL BE MAHARAM, PATTERN: TRAIT 484830, COLOR: 016 ECLIPSE. DO NOT GLUE PLYWOOD SEAT TO OAK FRAME. ATTACH SEAT WITH SCREWS TO ALLOW REMOVAL FOR FUTURE RECOVERING IF NEEDED.
 3. 3x3 LEGS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED.
 4. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
 5. ONE (1) BENCH REQUIRED.
 6. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.



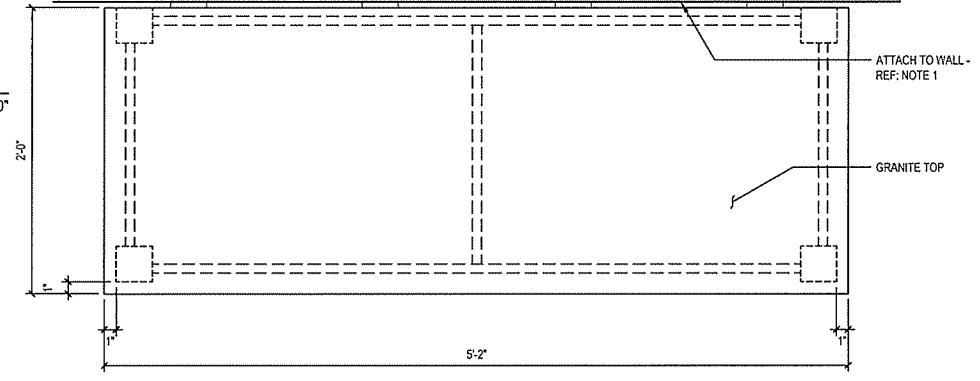
C BENCH END SECTION
 A-409 SCALE: 1 1/2" = 1'-0"



E BENCH END ELEVATION
 A-409 SCALE: 1 1/2" = 1'-0"

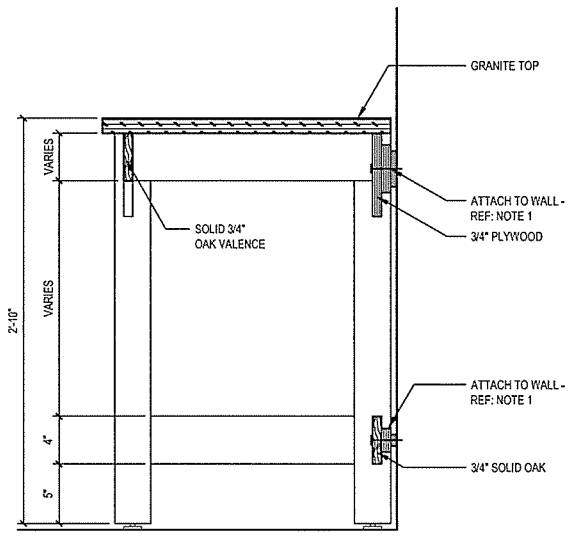


H DATA COUNTER - TOP SECTION
 A-409 SCALE: 1 1/2" = 1'-0"

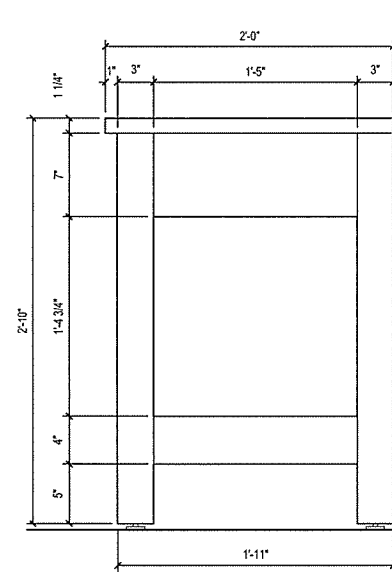


J DATA COUNTER - TOP VIEW
 A-409 SCALE: 1 1/2" = 1'-0"

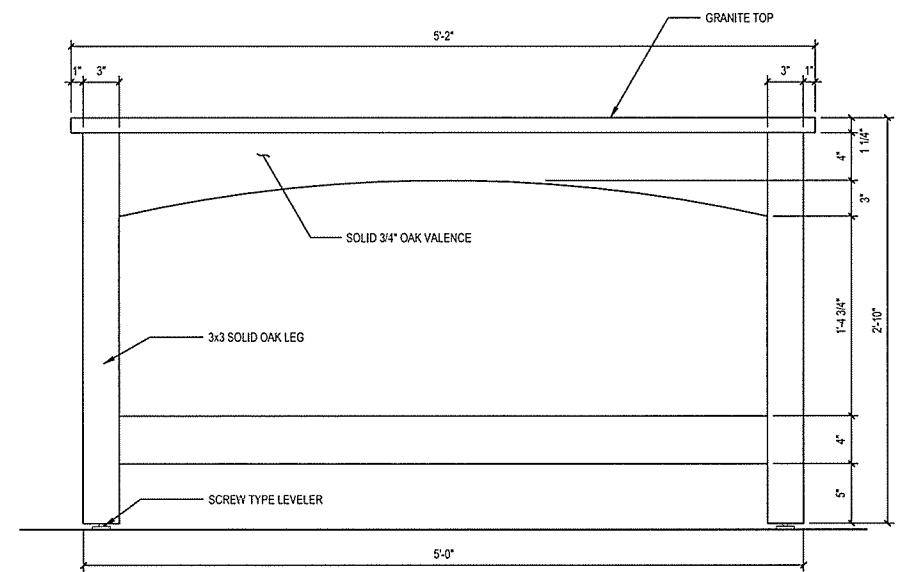
- DATA COUNTER GENERAL NOTES:**
1. SECURELY ATTACH DATA COUNTER TO WALL. TILE SHALL BE CONTINUOUS UNDERNEATH AND WOOD BASE SHALL BE CONTINUOUS BEHIND. DO NOT CAULK BETWEEN GRANITE TOP AND WALL FINISH MATERIAL.
 2. 3x3 CORNER POSTS SHALL BE SOLID MATERIAL, NOT BUILT UP OF SMALLER MEMBERS AND SHOP LAMINATED. PROVIDE SCREW TYPE ADJUSTABLE LEVELERS AT EACH 3x3 LEG.
 3. SOLID OAK OF IDENTICAL SHAPE AND SIZE MAY BE SUBSTITUTED FOR ANY MINOR PARTS INDICATED TO BE OAK VENEER PLYWOOD. OAK VENEER PLYWOOD MAY NOT BE SUBSTITUTED FOR PIECES IDENTIFIED AS SOLID OAK.
 4. ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.



F DATA COUNTER SECTION
 A-409 SCALE: 1 1/2" = 1'-0"



G DATA COUNTER SIDE ELEVATION
 A-409 SCALE: 1 1/2" = 1'-0"



K DATA COUNTER FRONT ELEVATION
 A-409 SCALE: 1 1/2" = 1'-0"

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 Leidos Engineering, LLC
 3608 N. Steele Blvd, Suite 105
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0	9/25/2015	ISSUED FOR BID		

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS DATA COUNTER & UPHOLSTERED BENCH

REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

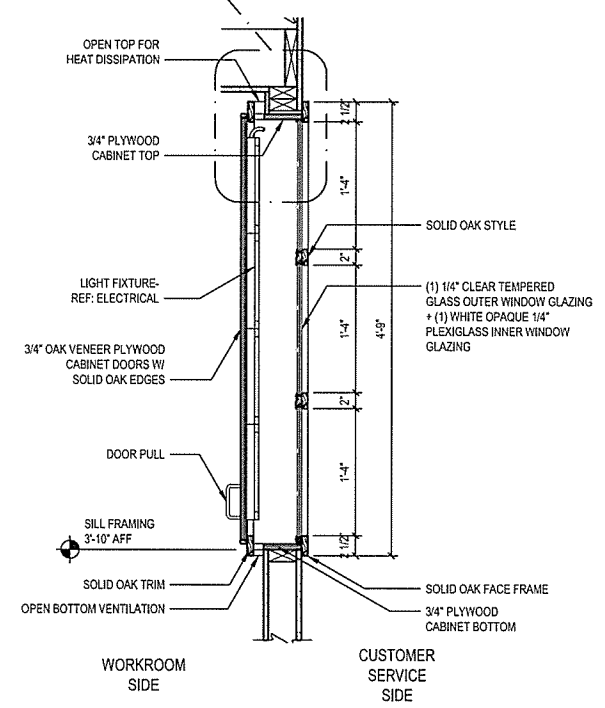
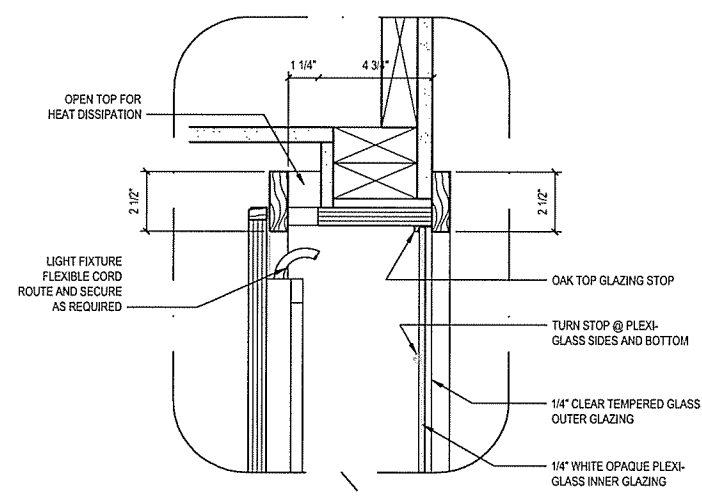
JOSEPH S. ROY
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

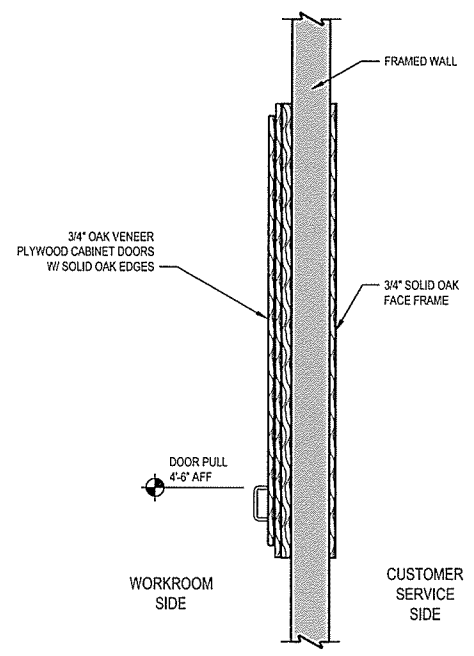
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-409
REV	

File name: W:\FD\BAR Highway\Draw\313841 - ARHTD Welcome Center\20_DESS\410_MILLWORK DETAILS BACKLIT PHOTO DISPLAY.dwg
 Date: September 23, 2015 - 4:31pm
 User: brysona

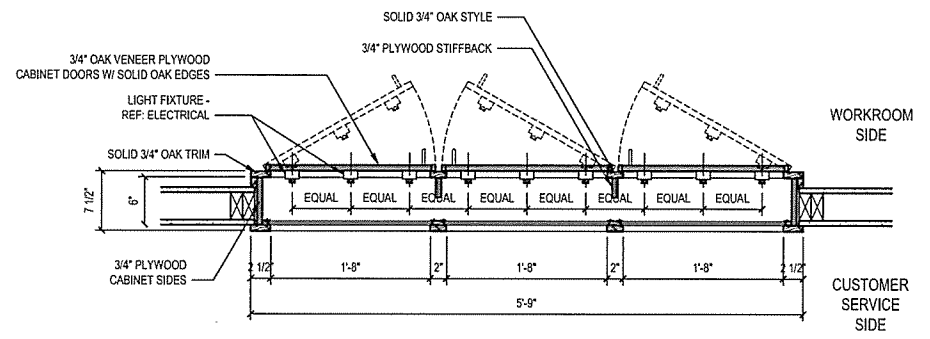
- PHOTO DISPLAY GENERAL NOTES:**
- THIS PHOTO DISPLAY IS DESIGNED TO DISPLAY BACKLIT PHOTOGRAPHS. PHOTOS TO BE DISPLAYED WILL BE 16" x 20".
 - PHOTOS WILL BE SANDWICHED BETWEEN 1/4" CLEAR TEMPERED GLASS OUTER GLAZING AND 1/4" WHITE OPAQUE PLEXIGLASS INNER GLAZING. PHOTOGRAPHS WILL BE PROVIDED BY OWNER FOR INSTALLATION PRIOR TO OPENING THE BUILDING TO THE PUBLIC.
 - LIGHT FIXTURE CORDS SHALL BE APPROPRIATELY ROUTED AND SECURED INSIDE OF CABINET TO AVOID TWISTING AND CRIMPING.
 - PROVIDE (3) SELF-CLOSING, CONCEALED CABINET DOOR HINGES PER CABINET DOOR.
 - PROVIDE STANDARD LIGHT SWITCH ON WORKROOM WALL OUTSIDE OF CABINET FOR BACKLIGHTS.
 - PRIME AND PAINT ALL DISPLAY CABINET INTERIOR SURFACES W/ HIGH REFLECTIVITY WHITE PAINT.
 - ALL EXTERIOR SURFACES SHALL BE SANDED SMOOTH, STAINED AND SEALED.



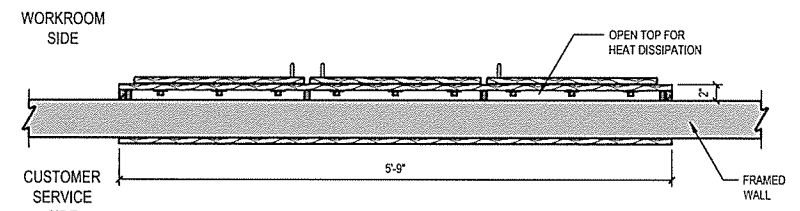
A
 A-410
SIDE SECTION
 SCALE: 1" = 1'-0"



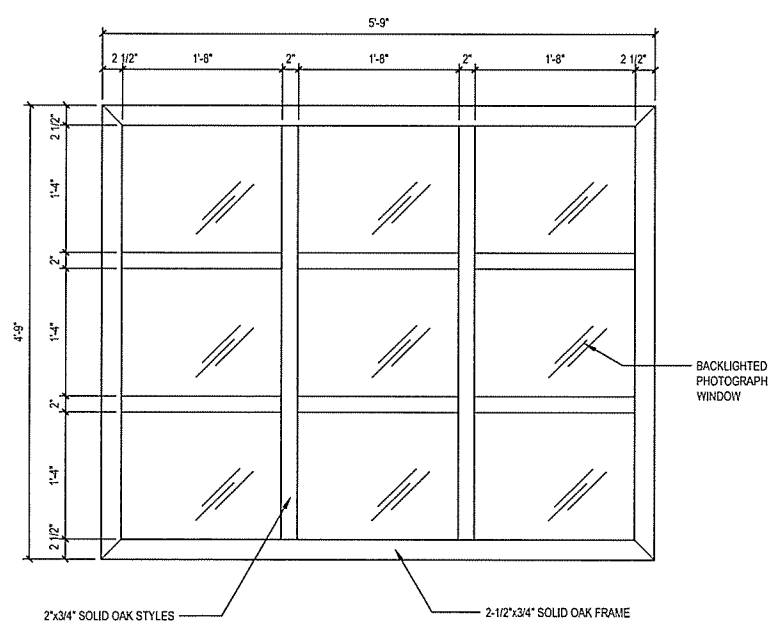
B
 A-410
SIDE VIEW
 SCALE: 1" = 1'-0"



E
 A-410
TOP SECTION
 SCALE: 1" = 1'-0"



D
 A-410
TOP VIEW
 SCALE: 1" = 1'-0"



C
 A-410
FRONT ELEVATION
 SCALE: 1" = 1'-0"

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS BACKLIT PHOTO DISPLAY

REGISTERED ARCHITECT
 JOSEPH S. ROBERTS
 No. C-255
 ARKANSAS
 2-15-15

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-410
REV	
70 OF 114	

File name: WHEDEBAR Highway Dec0313841 - AHTD Welcome Center2D_DESIGN\40_CAD\AWC_Red River\AWA-411 ARKANSAS TOURIST REGION SIGNAGE FOR BROCHURE HOLDERS.dwg
Date: September 23, 2015 - 4:37pm
User: brysona

NO.	DATE	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
RED RIVER
ARKANSAS TOURIST REGION SIGNAGE FOR BROCHURE HOLDERS

REGISTERED ARCHITECT
Leidos Engineering LLC
No. C-255
ARKANSAS

JOSEPH S. ROOK
REGISTERED ARCHITECT
No. 2365
ARKANSAS
7-25-15

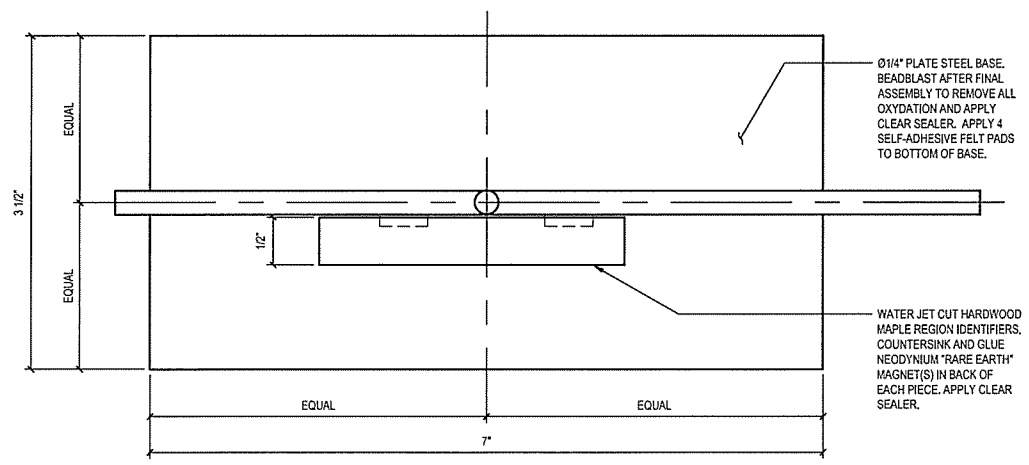
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-411
REV	
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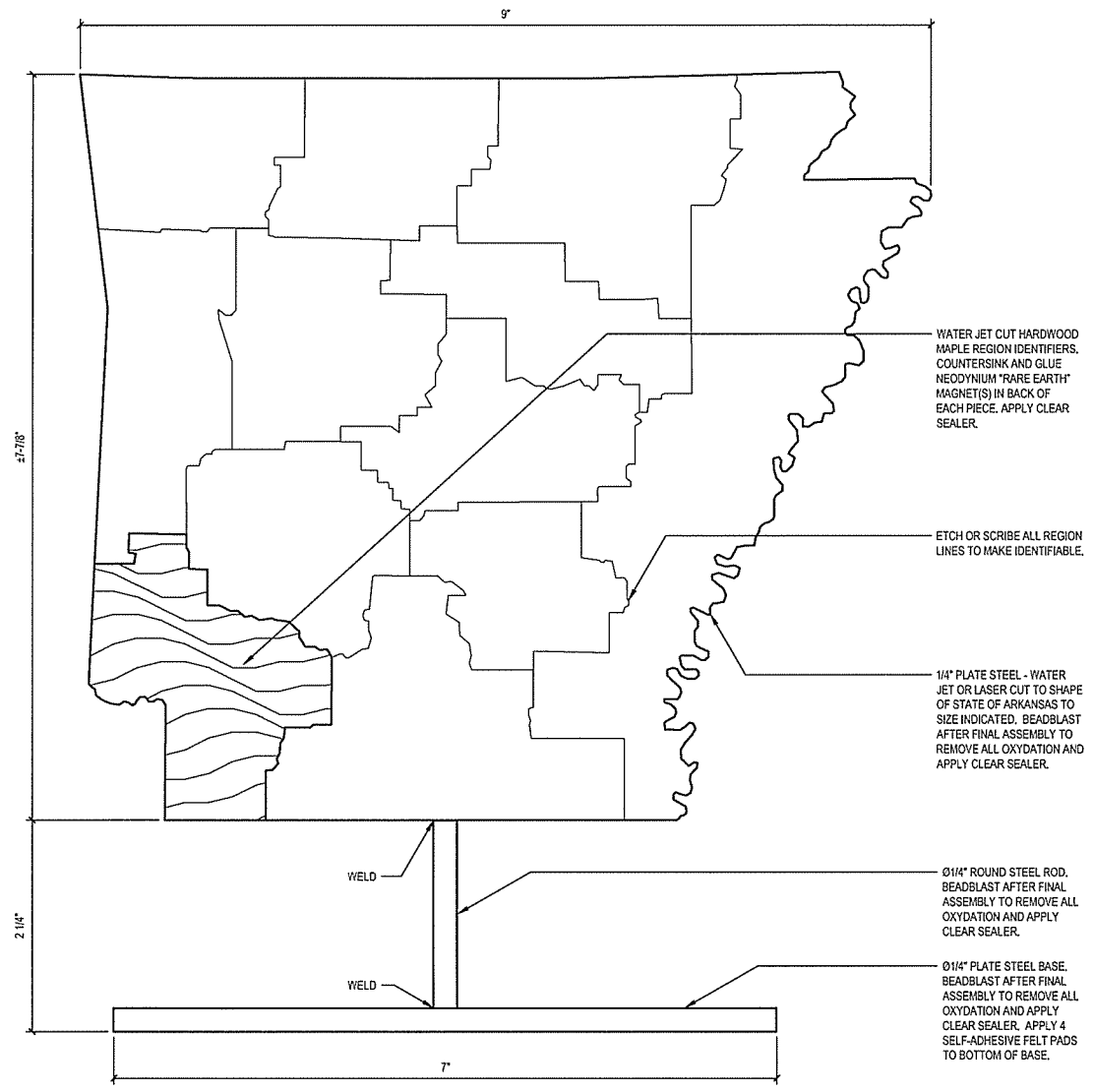
ARKANSAS REGIONAL TOURIST ASSOCIATIONS:
(LISTED FOR INFORMATION ONLY)

1. NORTHWEST ARKANSAS TOURISM ASSOCIATION
2. OZARK MOUNTAIN REGION
3. OZARK GATEWAY TOURIST COUNCIL
4. ARKANSAS DELTA BYWAYS REGION
5. WESTERN ARKANSAS' MOUNTAIN FRONTIER
6. ARKANSAS RIVER VALLEY TRI-PEAKS TOURIST ASSOCIATION
7. GREERS FERRY LAKE AND LITTLE RED RIVER ASSOCIATION
8. HEART OF ARKANSAS TRAVEL ASSOCIATION
9. DIAMOND LAKES TRAVEL ASSOCIATION
10. ARKANSAS' LAND OF LEGENDS TRAVEL ASSOCIATION
11. ARKANSAS' GREAT SOUTHWEST RECREATIONAL ASSOCIATION
12. ARKANSAS' SOUTH TOURISM ASSOCIATION

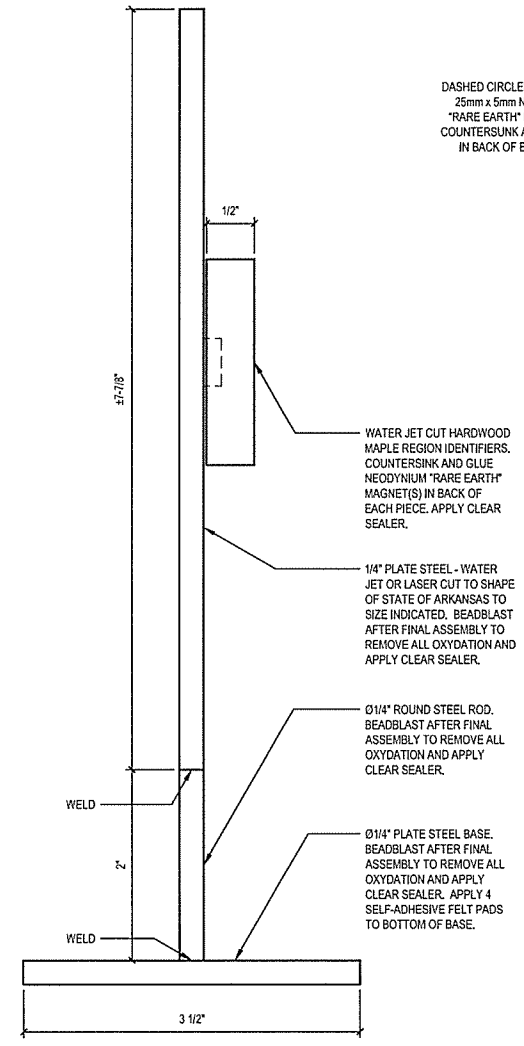
- GENERAL NOTES:**
1. AUTOCAD FILES OF STATE AND REGIONS ARE AVAILABLE FROM THE ARCHITECT FOR USE WITH CAD/CAM FABRICATION PROCESSES.
 2. GENERAL CONTRACTOR SHALL PROVIDE ONE COMPLETE SIGN WITH ALL 12 REGION PIECES PER BROCHURE HOLDER DESCRIBED ON SHEET A-407.
 3. FABRICATION PROCESS SHALL PROVIDE ADEQUATE CLEARANCES AND TOLERANCES TO ALLOW ALL 12 REGION PIECES TO BE PLACED ON SIGN SIMULTANEOUSLY WITHOUT DISTORTION.



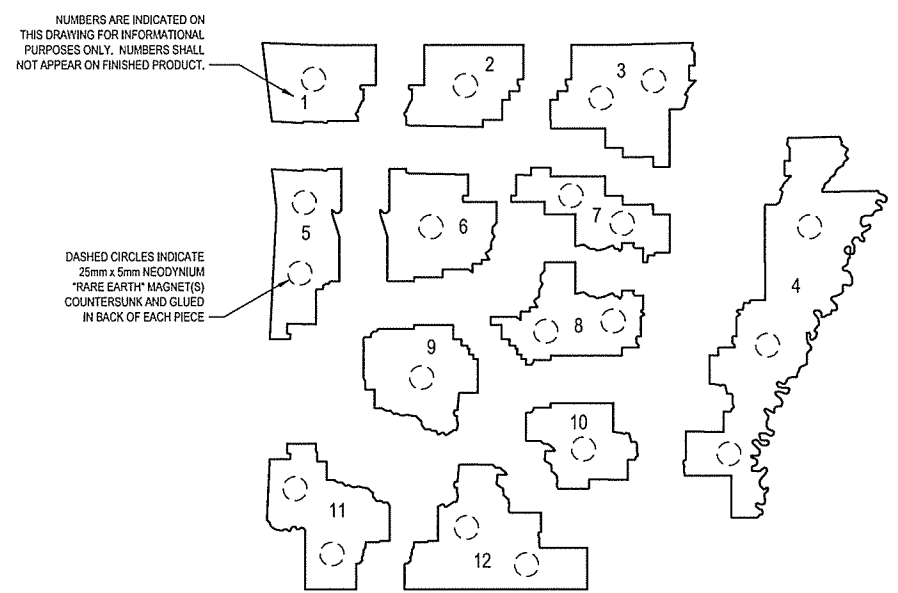
A TOP OF SIGN
SCALE: FULL SIZE



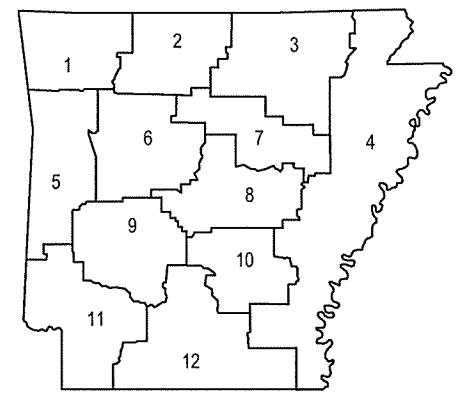
B FRONT OF SIGN
SCALE: FULL SIZE



C SIDE OF SIGN
SCALE: FULL SIZE

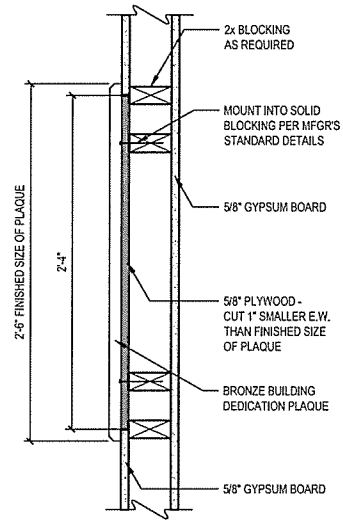


D ARKANSAS TOURIST REGIONS MAP (EXPLODED)
SCALE: NONE

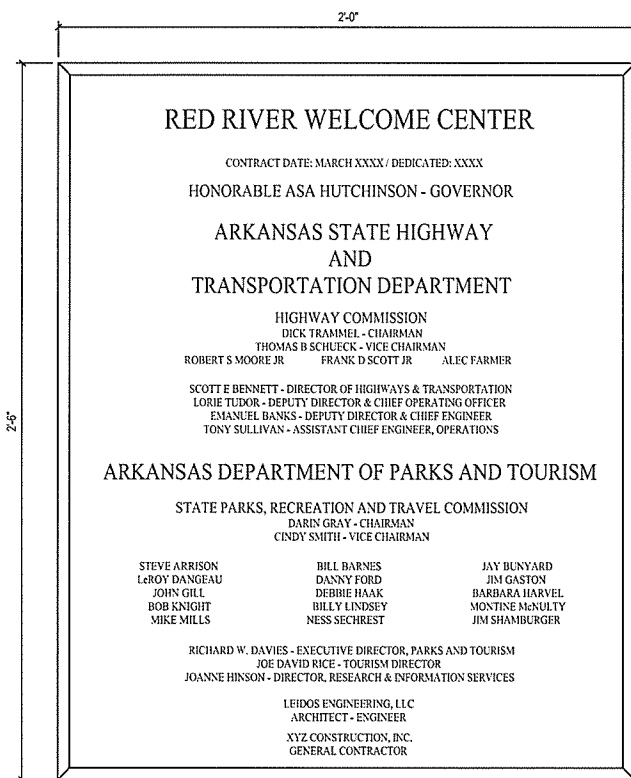


E ARKANSAS TOURIST REGIONS MAP
SCALE: NONE

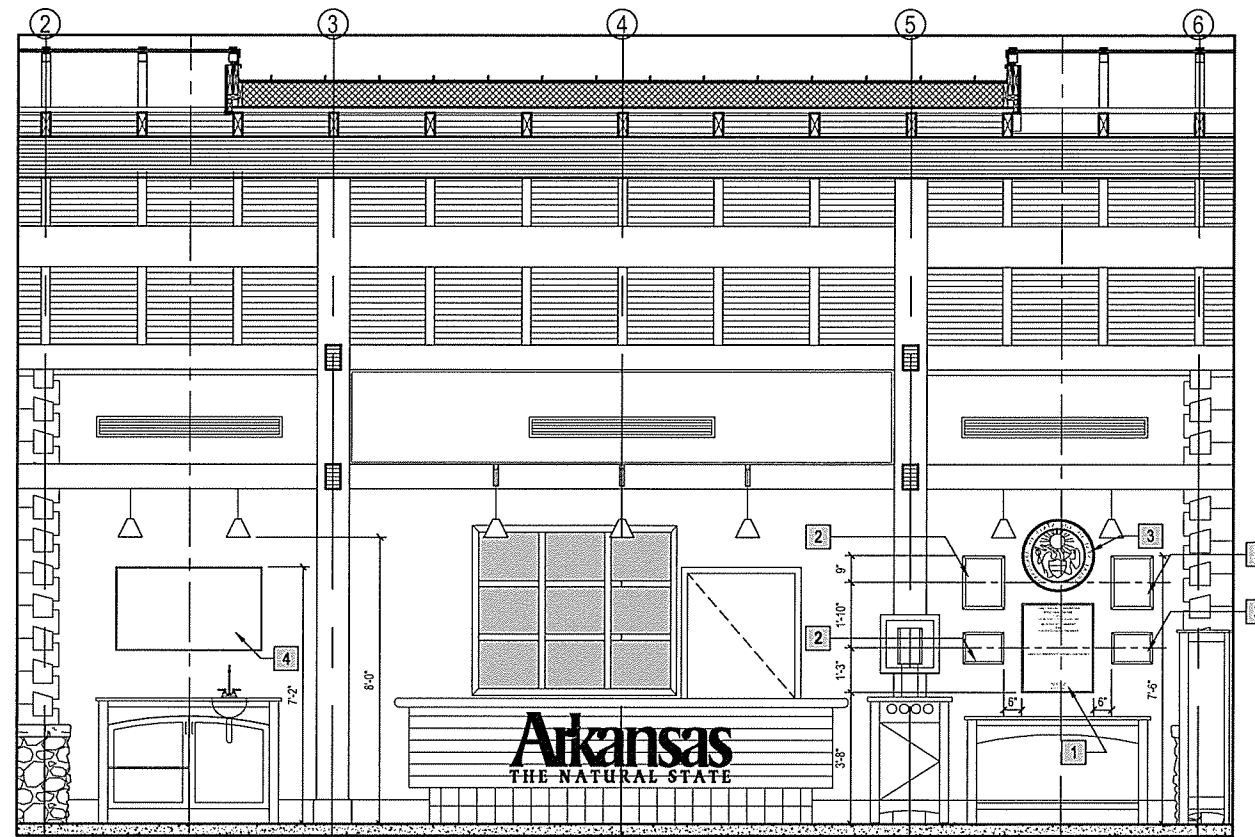
File name: W:\EDB\AR Highway Detail\313841 - ARHD Welcome Center\3D_DESIGN\3D_CAD\AWC_Red River\AW-412 BUILDING DEDICATION PLAQUE & WALL MOUNTED FURNISHINGS DETAILS.dwg
 Date: September 23, 2015 - 4:39pm
 User: bysona



B PLAQUE MOUNTING DETAIL
 A-412 SCALE: 1 1/2" = 1'-0"



C BRONZE BUILDING DEDICATION PLAQUE
 A-412 SCALE: 3" = 1'-0"



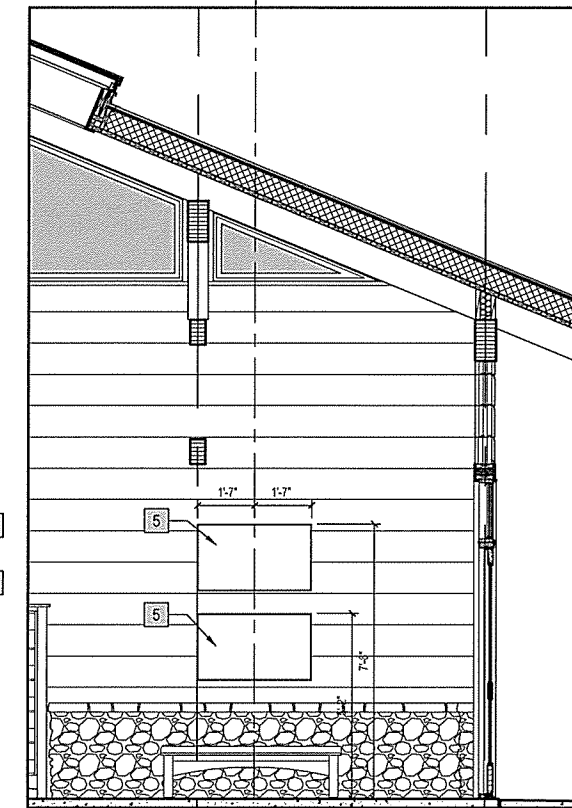
A SOUTH INTERIOR ELEVATION
 A-412 SCALE: 3/8" = 1'-0"

BUILDING DEDICATION PLAQUE NOTES:

1. TEXT, VERBIAGE, FONTS, LINE SPACING, ETC. INDICATED IN DRAWING IS INTENDED TO BE REPRESENTATIVE ONLY. ALL TEXT, VERBIAGE, FONTS, LINE SPACING AND GENERAL ARRANGEMENT SHALL BE SUBMITTED TO THE OWNER IN A FULL SIZE MOCKUP FOR APPROVAL PRIOR TO FABRICATION.
2. GENERAL CONTRACTOR SHALL REQUEST A CURRENT LIST OF ALL NAMES AND TITLES FROM THE OWNER PRIOR TO SUBMITTING A FULL SIZE MOCKUP FOR APPROVAL.

KEY TO ELEVATIONS:

- 1 BRONZE BUILDING DEDICATION PLAQUE - SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR
- 2 FRAMED PHOTOGRAPHS PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR
- 3 GREAT SEAL OF THE STATE OF ARKANSAS PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR
- 4 50" LED TELEVISION - BASIS OF DESIGN: VIZIO M55-C2
- 5 40" LED TELEVISION - BASIS OF DESIGN: VIZIO E43-C2



D WEST INTERIOR ELEVATION
 A-412 SCALE: 3/8" = 1'-0"

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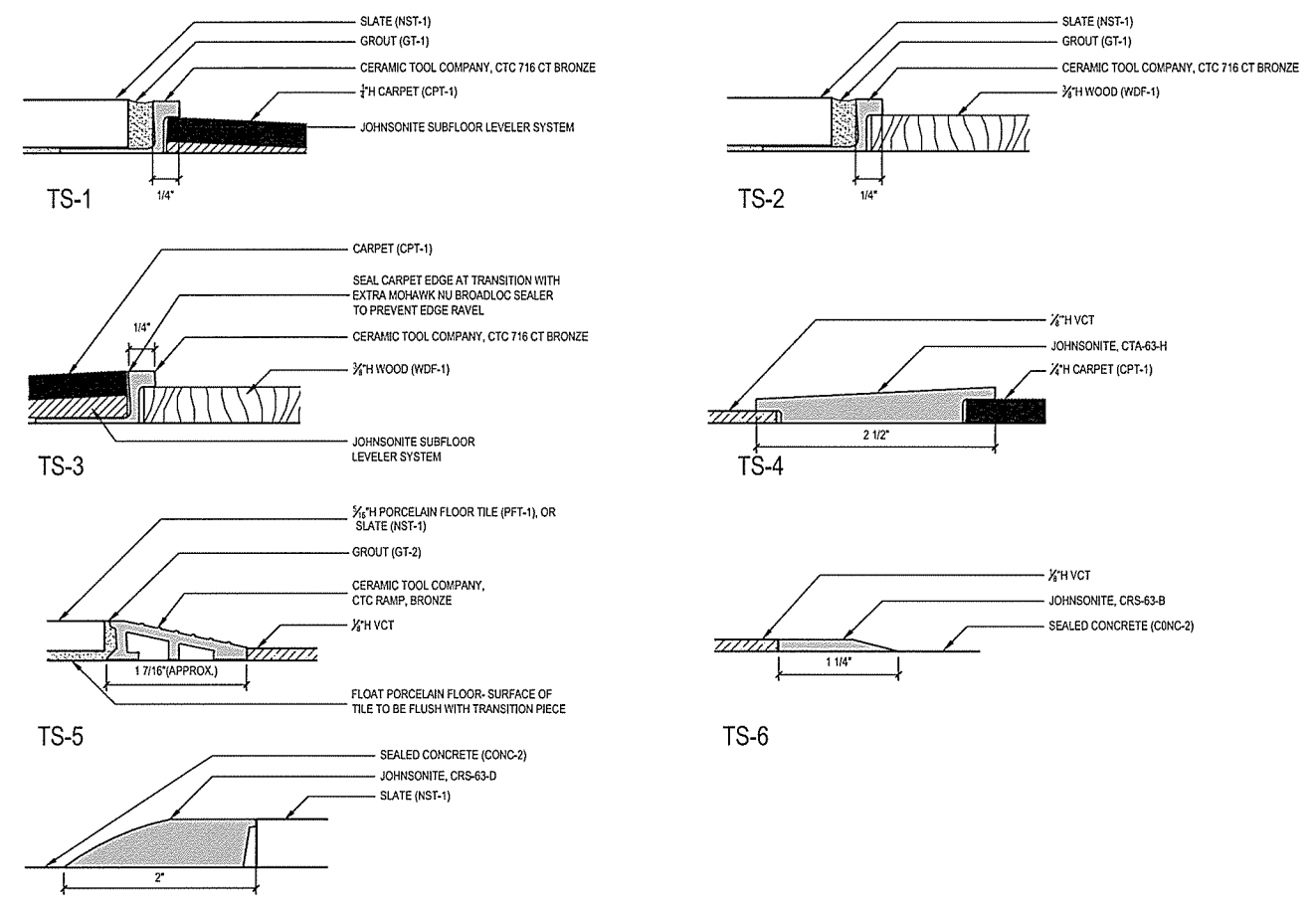
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 BUILDING DEDICATION PLAQUE & WALL MOUNTED FURNISHINGS DETAILS

REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-255
 ARKANSAS

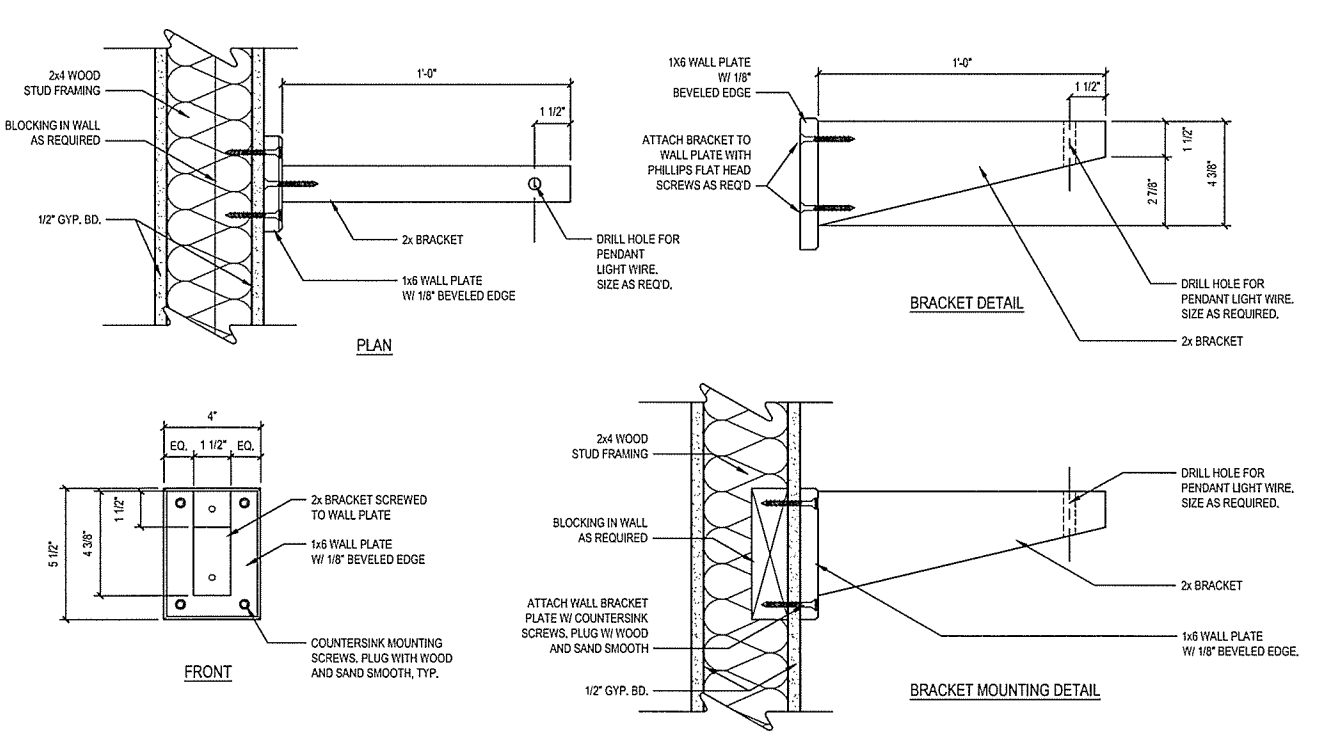
REGISTERED PROFESSIONAL ENGINEER
 JOSEPH S. ROBERTS
 REG. NO. 2365
 ARKANSAS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

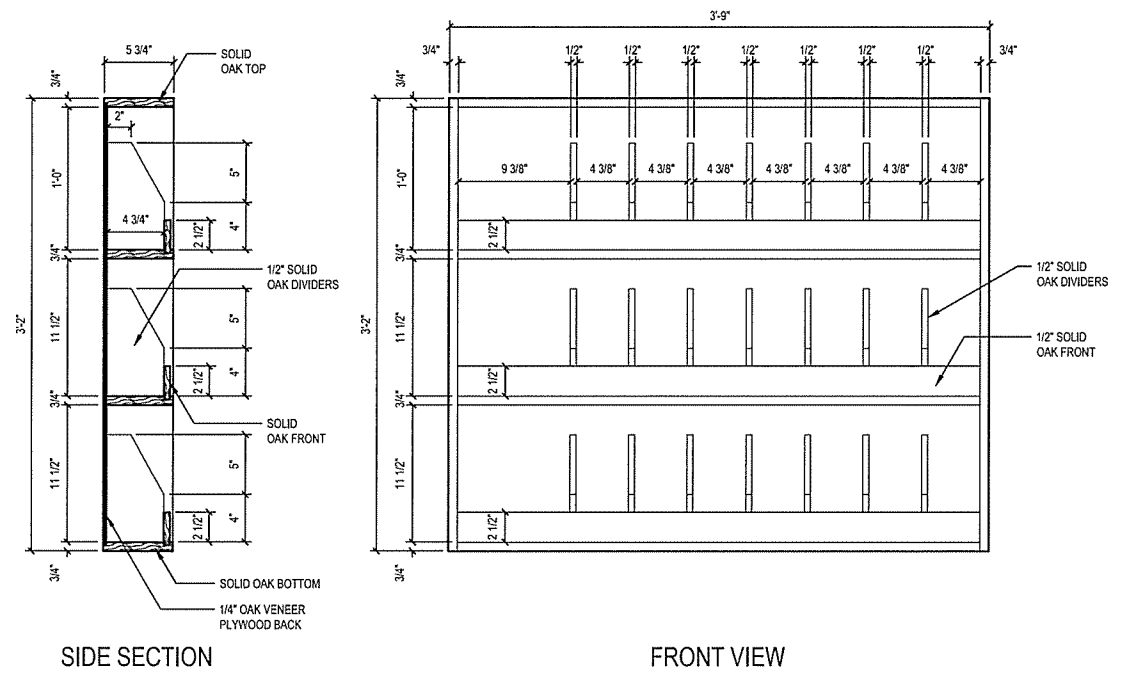
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-412
REV	



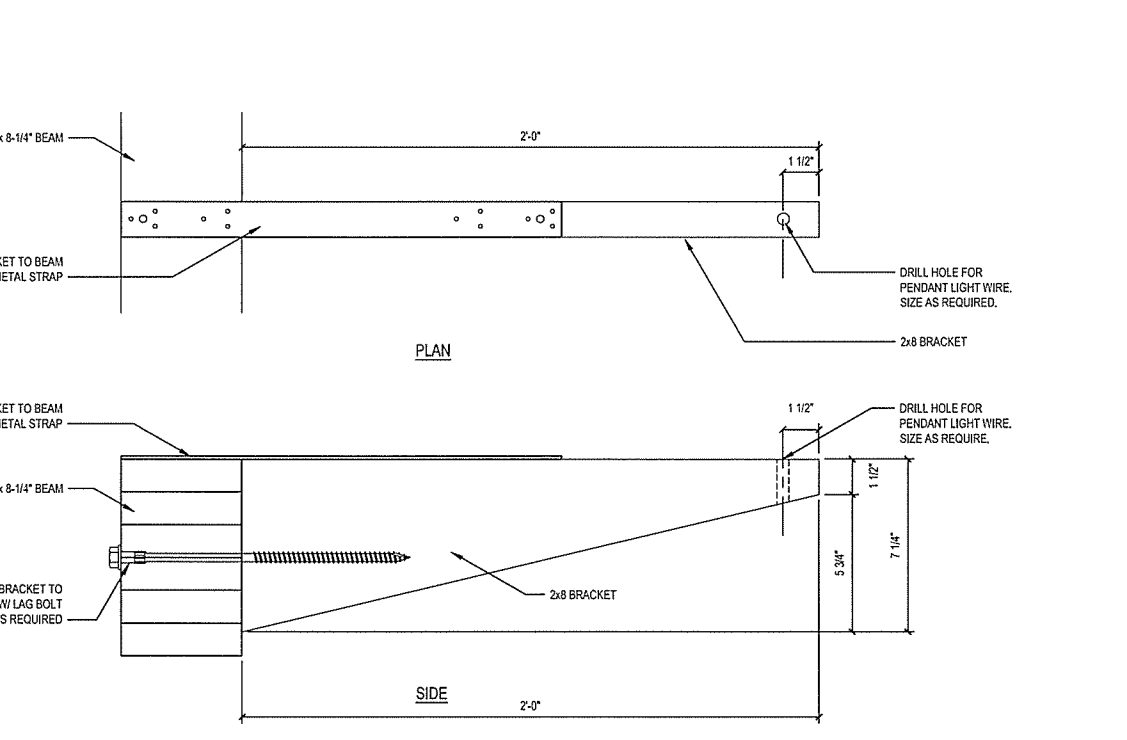
A FLOOR TRANSITIONS
 SCALE: 1" = 1'-0"



C PENDANT LIGHT WALL BRACKET
 SCALE: 3" = 1'-0"



B WALL MOUNTED BROCHURE HOLDER
 SCALE: 1 1/2" = 1'-0"



D PENDANT LIGHT COLUMN BRACKET
 SCALE: 3" = 1'-0"

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
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Leidos Engineering LLC No. C-255
 REGISTERED ARCHITECT
 ARKANSAS

Leidos Engineering LLC No. 2365
 REGISTERED ARCHITECT
 ARKANSAS

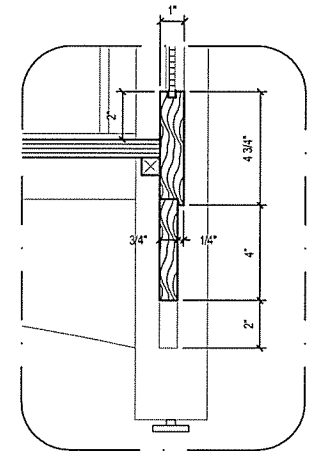
FLOOR TRANSITIONS - MILLWORK WALL MOUNTED BROCHURE HOLDER

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

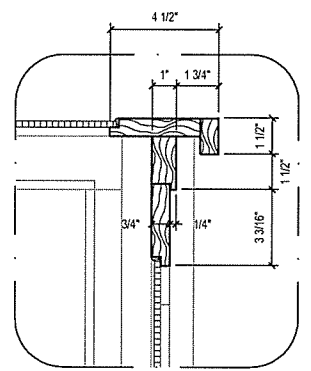
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-413
REV	
73 OF 114	

File name: \\NFPS\B\B\Highway\Draw\313841 - AHTD Welcome Center\3D_DESIGN\40_CAD\DWG_Rev\Rev\40-A-413 FLOOR TRANSITIONS - MILLWORK WALL MOUNTED BROCHURE HOLDER.dwg
 Date: September 23, 2015 - 4:32pm
 User: brysona

File name: W:\E\B\B\B\Highway Detail\313841 - AHTD Welcome Center\3D_MODEL\3D_CAD\A\WC_Red\Revit\A-A-414\MILLWORK DETAILS\MUSEUM DISPLAY CASES.dwg
 Date: September 23, 2015 - 4:32pm
 User: brysona

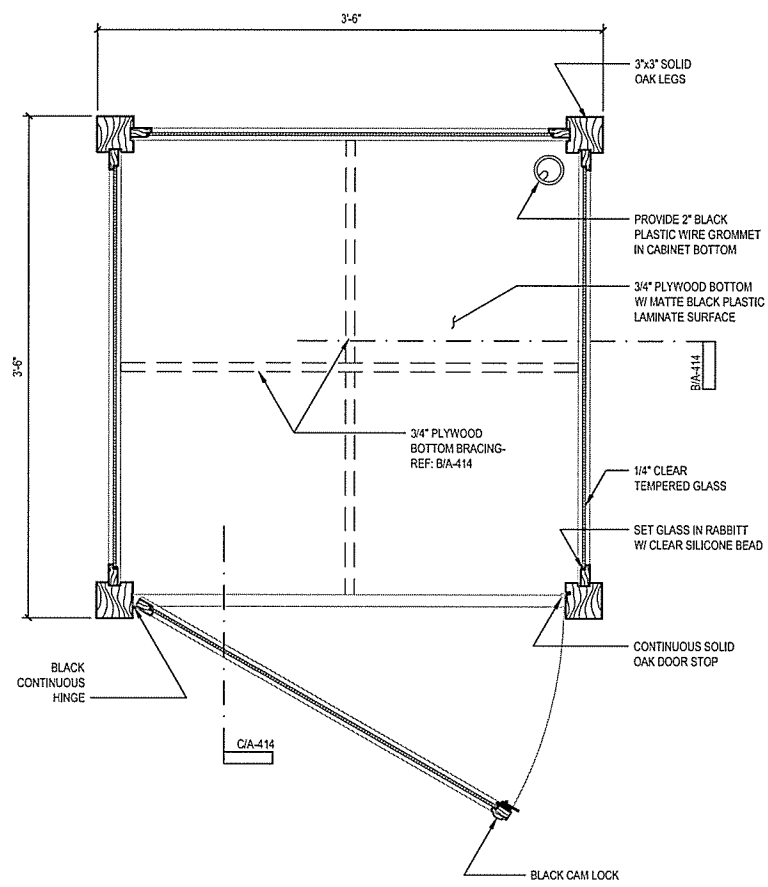


F **DETAIL**
A-414 SCALE: 3" = 1'-0"

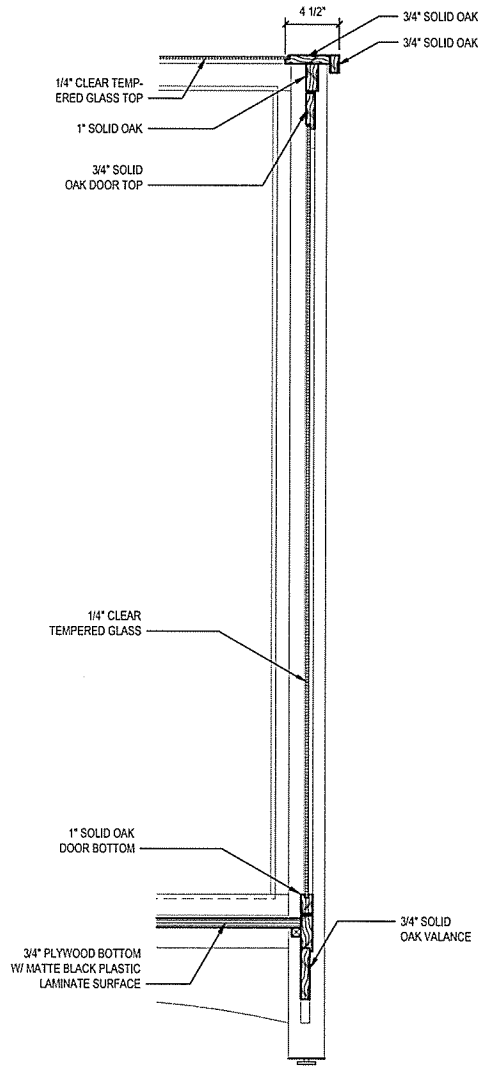


E **DETAIL**
A-414 SCALE: 3" = 1'-0"

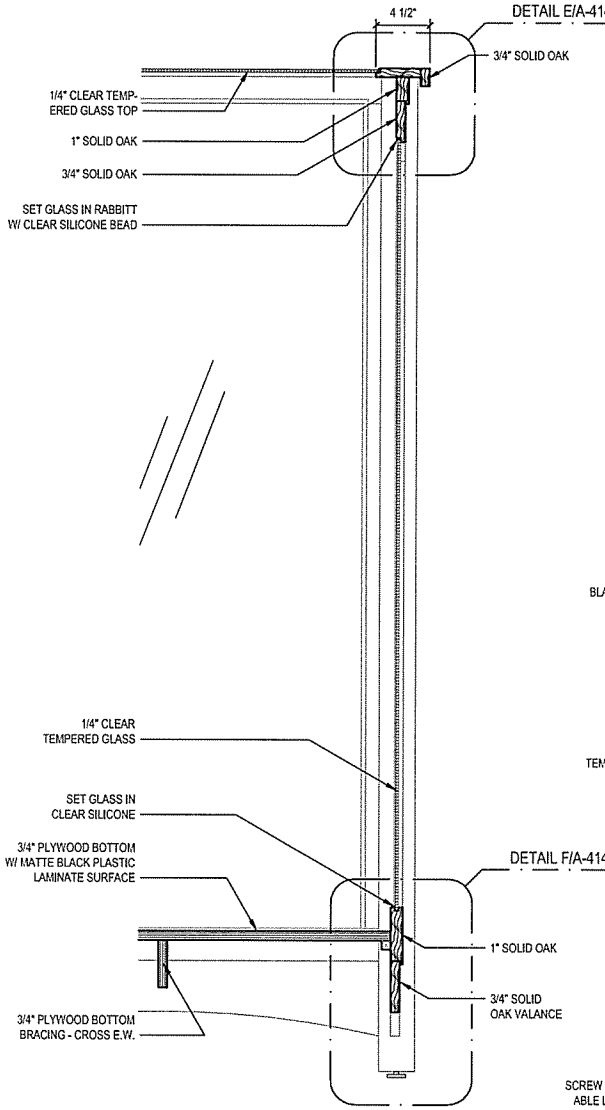
- GENERAL NOTES:**
- PROVIDE (1) SET OF (3) DISPLAY BLOCKS FOR EACH MUSEUM DISPLAY CASE. BLOCKS SHALL BE CONSTRUCTED OF 3/4" PLYWOOD, COVERED ALL SIDES EXCEPT BOTTOM W/ MATTE BLACK PLASTIC LAMINATE TO MATCH DISPLAY CASE BOTTOM. EACH SET OF DISPLAY BLOCKS SHALL CONSIST OF:
 - (1) BLOCK 12"x12"x18" TALL
 - (1) BLOCK 12"x12"x12" TALL
 - (1) BLOCK 12"x12"x6" TALL
 - MUSEUM CASE GLASS MAY BE INSTALLED ON-SITE FOLLOWING FINAL INSTALLATION OF UNITS AT NO ADDITIONAL COST TO THE OWNER.
 - CAM LOCKS FOR THE DISPLAY CASES SHALL BE KEYPED ALIKE OR MASTER KEY SHALL BE PROVIDED TO THE OWNER.
 - REFER TO SHEET A-107 FOR FINAL INSTALLED LAYOUT OF MUSEUM CASES.
 - ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED UNLESS OTHERWISE NOTED.



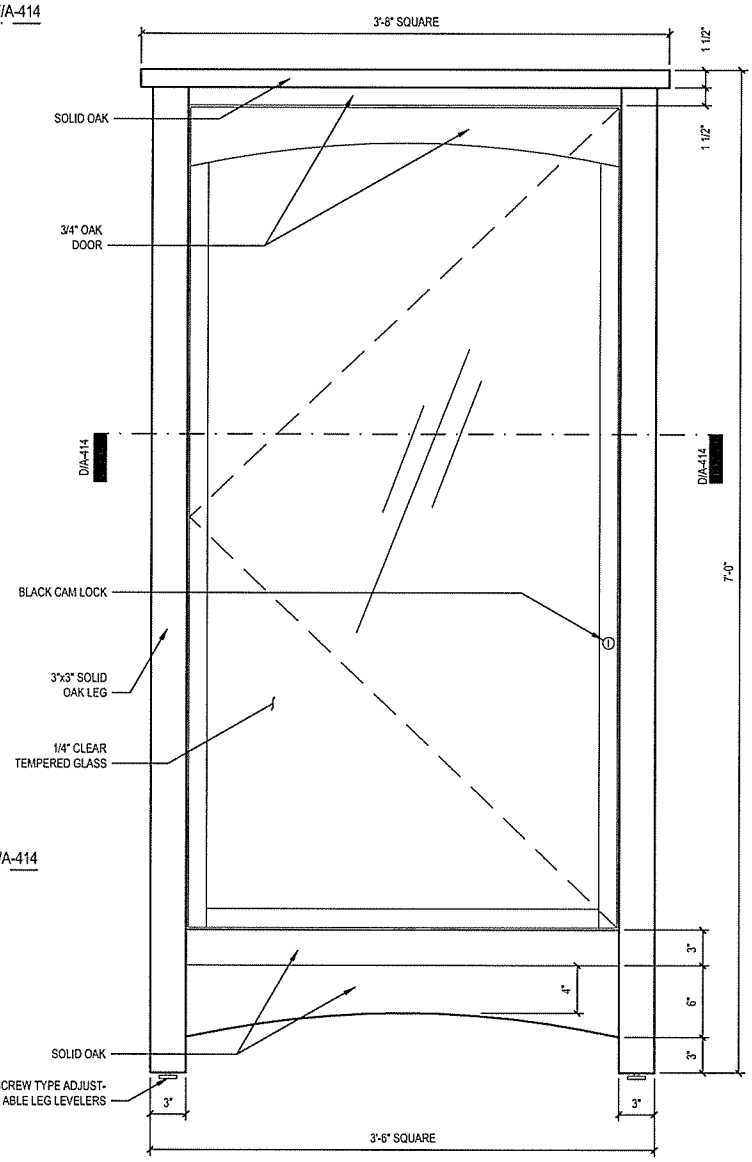
D **MUSEUM DISPLAY CASE PLAN SECTION**
A-414 SCALE: 1 1/2" = 1'-0"



C **MUSEUM DISPLAY CASE SECTION @ DOOR**
A-414 SCALE: 1 1/2" = 1'-0"



B **MUSEUM DISPLAY CASE CABINET SECTION**
A-414 SCALE: 1 1/2" = 1'-0"



A **MUSEUM DISPLAY CASE FRONT (DOOR) ELEVATION**
A-414 SCALE: 1 1/2" = 1'-0"

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS MUSEUM DISPLAY CASES

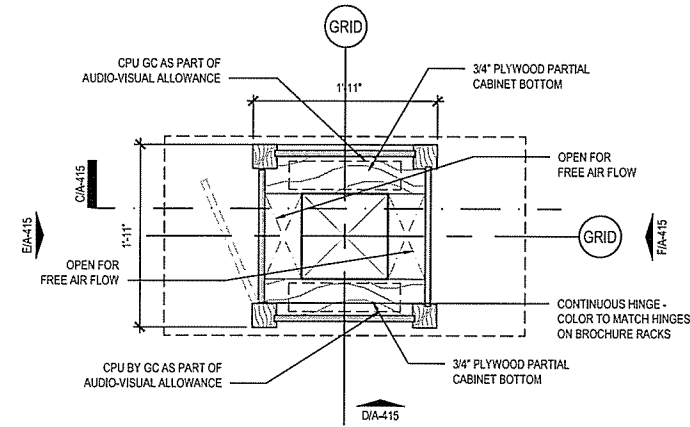
JOSEPH S. FORT
 REGISTERED ARCHITECT
 No. 2365
 ARKANSAS

Leidos Engineering LLC
 No. C-255
 ARKANSAS

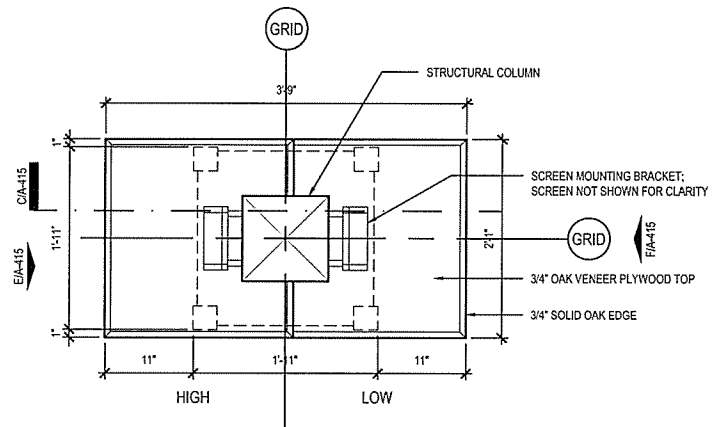
DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-414
REV	
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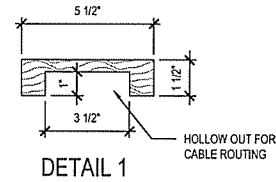
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 Date: September 23, 2015 - 4:30pm
 User: blysona



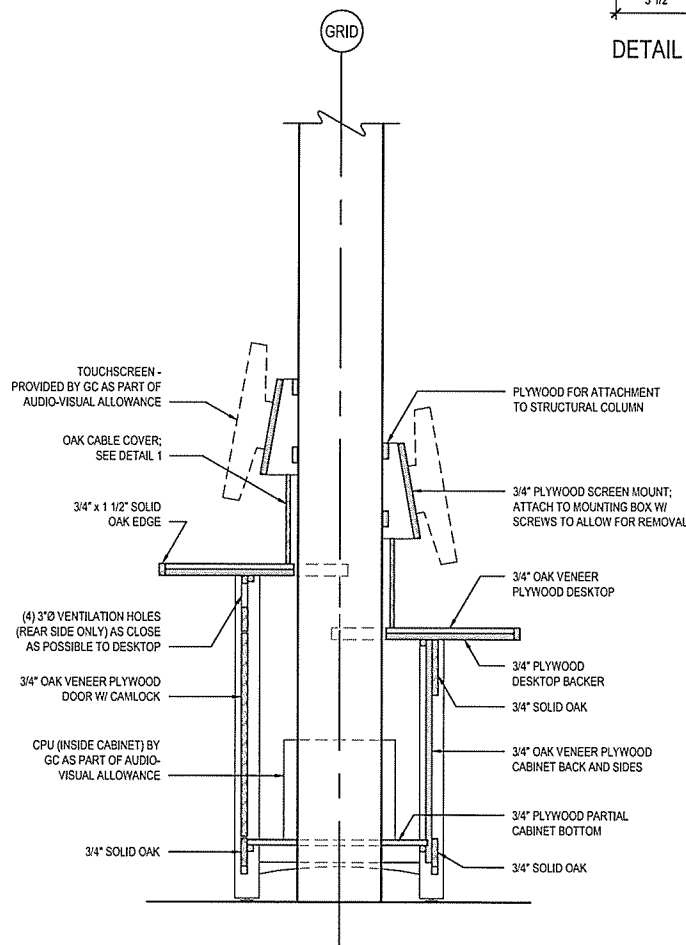
A TOP SECTION
 SCALE: 1" = 1'-0"



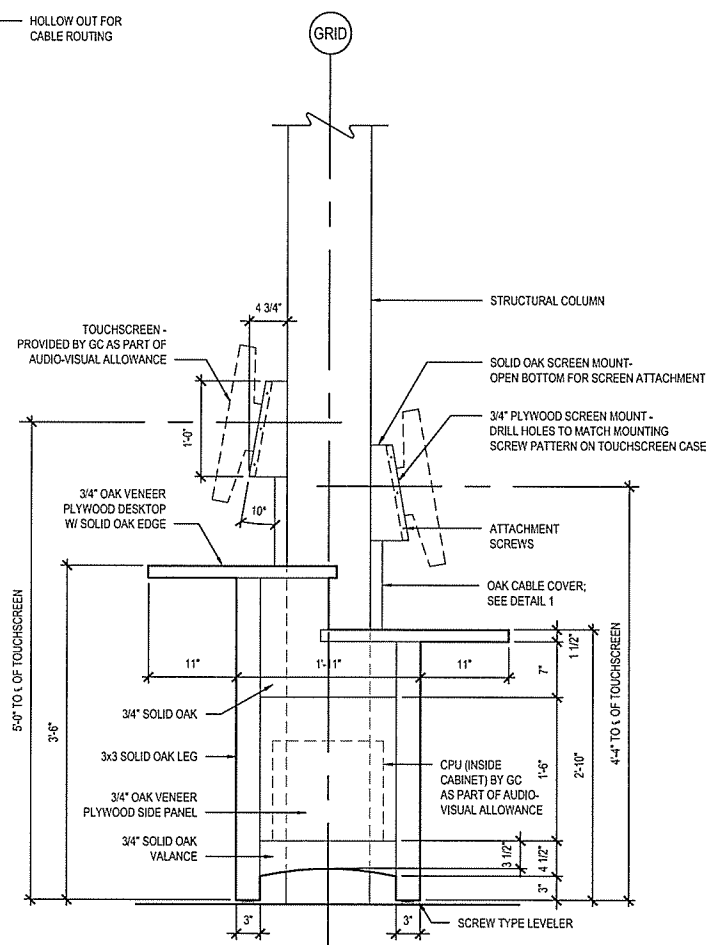
B TOP VIEW
 SCALE: 1" = 1'-0"



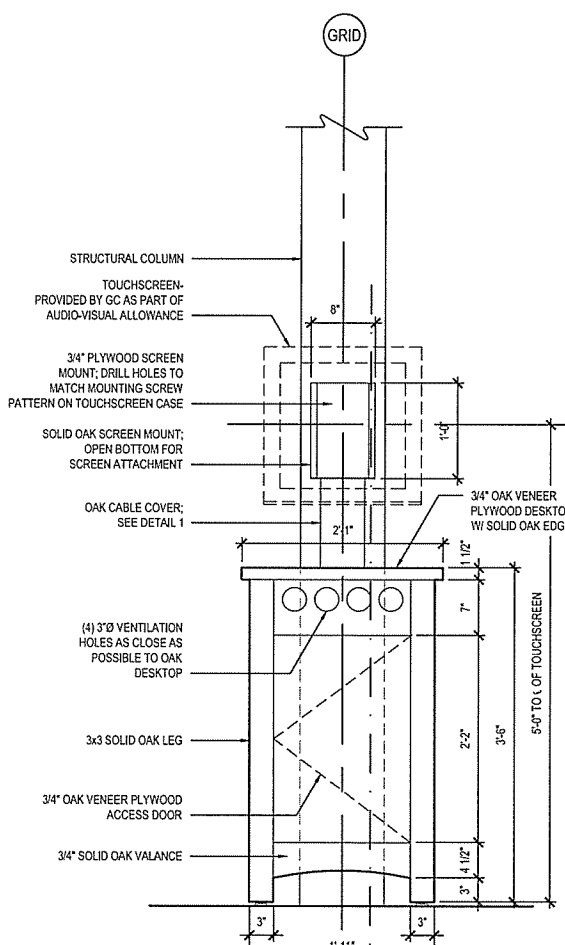
DETAIL 1
 HOLLOW OUT FOR CABLE ROUTING



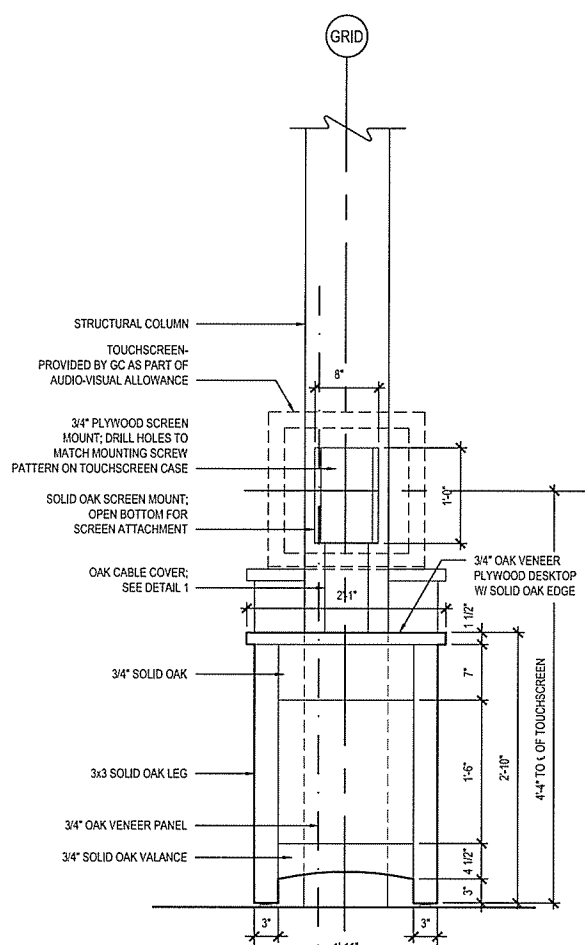
C CABINET SECTION
 SCALE: 1" = 1'-0"



D SIDE ELEVATION
 SCALE: 1" = 1'-0"



E HIGH-SIDE ELEVATION
 SCALE: 1" = 1'-0"



F LOW-SIDE ELEVATION
 SCALE: 1" = 1'-0"

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE COMPUTER RATED, SWITCHED, SURGE SUPPRESSION POWER STRIP, MOUNTED TO FACE OF STRUCTURAL COLUMN INSIDE OF CABINET. COMPUTER ACCESS DOOR SHALL BE EQUIPPED WITH A CAM LOCK.
- CONTRACTOR SHALL PROVIDE AND INSTALL A COMPUTER EQUIPMENT COOLING FAN TO DRAW AIR UP THROUGH CABINET BOTTOM AND EXHAUST THROUGH (4) ROUND HOLES INDICATED. FAN SHALL BE MOUNTED ON STRUCTURAL COLUMN AND CONNECTED TO POWER STRIP IN SUCH MANNER AS TO BE "ON" WHENEVER POWER STRIP IS ENERGIZED.
- OAK VENEER PLYWOOD DESKTOP SHALL BE FIELD FITTED AND INSTALLED AROUND STRUCTURAL COLUMN. SOLID OAK EDGE BAND SHALL BE FIELD INSTALLED SO AS TO BE CONTINUOUS.
- POWER AND DATA CABLING SHALL BE ROUTED FROM THE CPUS, THROUGH THE SOLID OAK CABLE COVERS AS INDICATED (SEE DETAIL 1) SO AS TO BE COMPLETELY CONCEALED FROM VIEW.
- TOUCH-SCREEN MONITORS MUST BE REMOVABLE FOR SERVICE. MOUNTING PLYWOOD SHALL BE ATTACHED BY REMOVABLE SCREWS. VERIFY THAT CONNECTION END OF MONITOR CABLE WILL PASS THROUGH OPENING IN DESKTOP AND OAK CABLE COVER OR IS DETACHABLE FROM MONITOR.
- ALL SURFACES, INCLUDING INTERIOR, SHALL BE SANDED SMOOTH, STAINED AND SEALED.



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MILLWORK DETAILS TOUCH-SCREEN INFORMATION KIOSK

REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-235
 ARKANSAS

DESIGNED BY	JSR
DRAWN BY	AMB
CHECKED BY	JSR
APPROVED BY	JSR

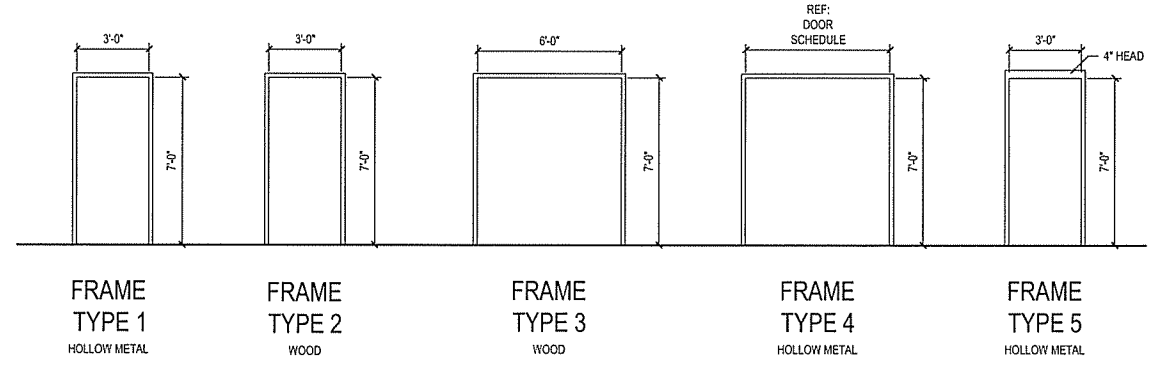
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-415
REV	75 OF 114

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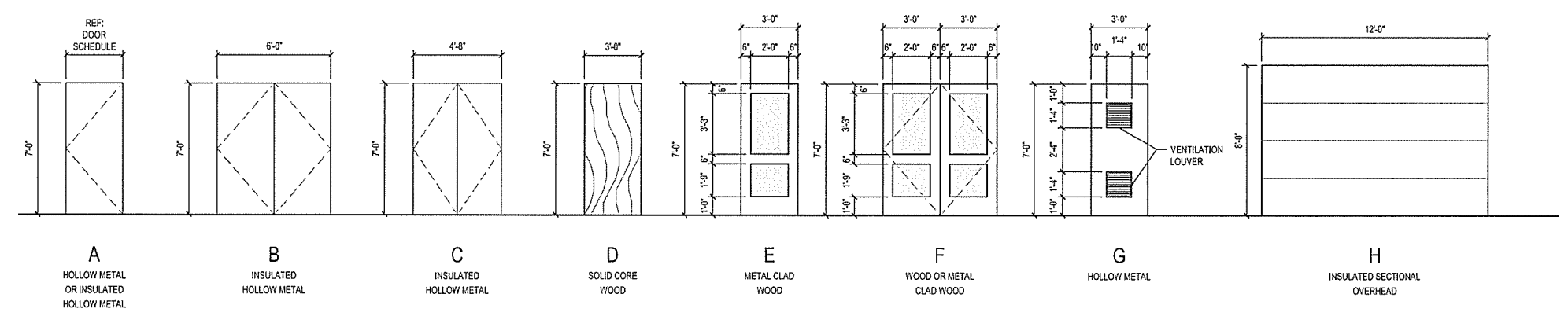
DOOR SCHEDULE

DOOR				FRAME		DETAILS				REMARKS	
DOOR NO.	DOOR SIZE	MFGR	DOOR DESCRIPTION	DOOR ELEV.	FRAME TYPE	FRAME MATL.	FIRE RATING	STC RATING	HRDWR SET		DETAIL GROUP
101A	PAIR 3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	F	3	WOOD	-	NSR	4	G	
101B	3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	E	2	WOOD	-	NSR	2	G	
103	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	1	STEEL	-	56	6	E	
104	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	1	STEEL	-	NSR	3	E	
105	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	1	STEEL	-	56	6	D	
106A	PAIR 3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	B	4	STEEL	-	NSR	7	F	
106B	3'-0"x7'-0"x1-3/4"	NSM	SOLID CORE WOOD	D	1	STEEL	-	NSR	9	E	
107	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	1	B	
108	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	3	C	
109	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	1	B	
110A	PAIR 2'-4"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	C	4	STEEL	-	NSR	8	A	
110B	3'-0"x7'-0"x2"	MARVIN	METAL CLAD WOOD	E	2	WOOD	-	NSR	5	G	
111	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	1	B	
112	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	3	C	
113	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	1	B	
201A	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	A	1	STEEL	-	NSR	10	-	MAINTENANCE BUILDING
201B	12'-0"x8'-0"x2"	NSM	INSULATED SECTIONAL OVERHEAD	H	-	WOOD	-	NSR	BY MFGR	-	MAINTENANCE BUILDING
202	3'-0"x7'-0"x1-3/4"	NSM	INSULATED HOLLOW METAL	G	5	STEEL	-	NSR	11	-	MAINTENANCE BUILDING

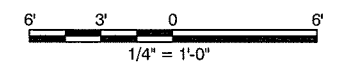
- DOOR SCHEDULE NOTES:
 1. NSM = NO SPECIFIC MANUFACTURER
 2. NSR = NO SPECIFIC REQUIREMENT
 3. WITH COMMERCIAL SECTIONAL DOOR OPERATOR; WITH EXTERIOR KEYPAD ACTUATOR AND INTERIOR PUSHBUTTON OPERATION.
 4. REFER TO SPECIFICATION SETION 087100 FOR HARDWARE SETS.



B DOOR FRAME ELEVATIONS
 SCALE: 1/4" = 1'-0"



A DOOR ELEVATIONS
 SCALE: 1/4" = 1'-0"



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 DOOR SCHEDULE & ELEVATIONS

REGISTERED ARCHITECT
 Leidos Engineering LLC
 No. C-235
 ARKANSAS

REGISTERED ARCHITECT
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 No. 2365
 ARKANSAS

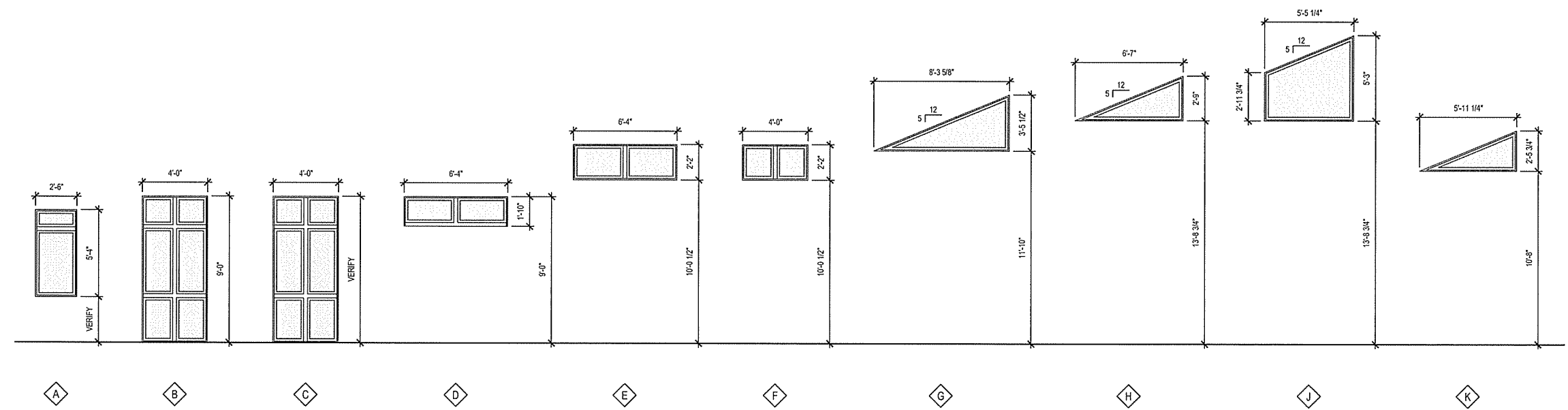
DESIGNED BY	JSR
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DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	A-501
	76 OF 114

File name: WFD\BAR Highway Dev\1313841 - AHFD Welcome Center\3D_DESIGN\40_CAD\AWC_Red River\AK-502.dwg
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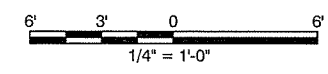
WINDOW SCHEDULE

WINDOW				FRAME	DETAILS		
WINDOW NO.	WINDOW SIZE	MF'GR	WINDOW DESCRIPTION	WINDOW ELEV.	FRAME MATERIAL	DETAIL GROUP	REMARKS
A	2'-6" x 5'-4"	MARVIN	METAL CLAD WOOD FIXED GLASS	A	WOOD	H	
B	4'-0" x 9'-0"	MARVIN	METAL CLAD WOOD FIXED GLASS	B	WOOD	J	
C	4'-0" x VERIFY	MARVIN	METAL CLAD WOOD FIXED GLASS	C	WOOD	J	
D	6'-4" x 1'-10"	MARVIN	METAL CLAD WOOD FIXED GLASS	D	WOOD	K	TRANSOM GLASS ABOVE DOOR 101A
E	6'-4" x 2'-2"	MARVIN	METAL CLAD WOOD FIXED GLASS	E	WOOD	K	TRANSOM GLASS ABOVE DOOR 101A
F	4'-0" x 2'-2"	MARVIN	METAL CLAD WOOD FIXED GLASS	F	WOOD	K	TRANSOM GLASS ABOVE WINDOW C @ DOOR 101A
G	8'-3 5/8" x 3'-5 1/2"	MARVIN	METAL CLAD WOOD FIXED GLASS	G	WOOD	L	TRIANGULAR
H	6'-7" x 2'-9"	MARVIN	METAL CLAD WOOD FIXED GLASS	H	WOOD	L	TRIANGULAR
J	5'-5 1/4" x 5'-3"	MARVIN	METAL CLAD WOOD FIXED GLASS	J	WOOD	L	IRREGULAR SHAPE
K	5'-11 1/4" x 2'-5 3/4"	MARVIN	METAL CLAD WOOD FIXED GLASS	K	WOOD	L	TRIANGULAR



A WINDOW ELEVATIONS
 SCALE: 1/4" = 1'-0"

NOTE:
 WINDOW DIMENSIONS ARE PROVIDED FOR CLARITY ONLY. THEY ARE SUITABLE FOR CONVEYING ARCHITECTURAL INTENT AND PRICING ONLY. VERIFY ACTUAL MEASUREMENTS IN FIELD PRIOR TO ORDERING WINDOW UNITS.



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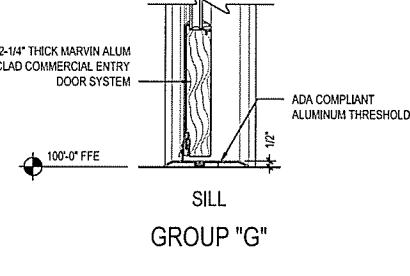
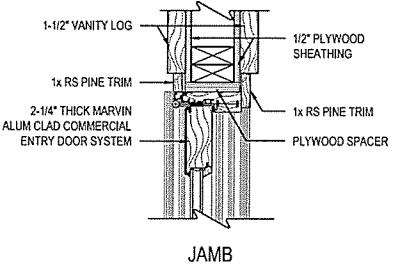
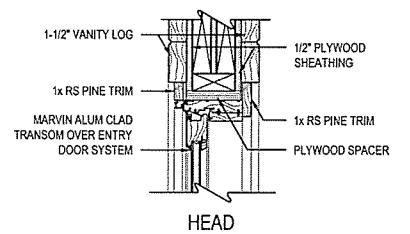
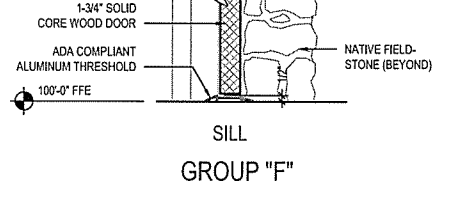
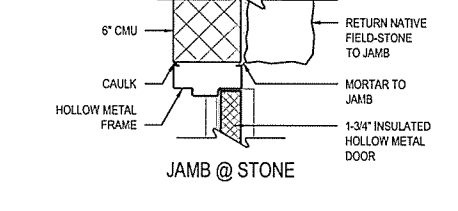
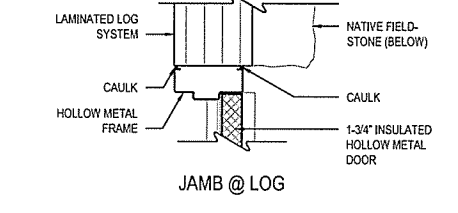
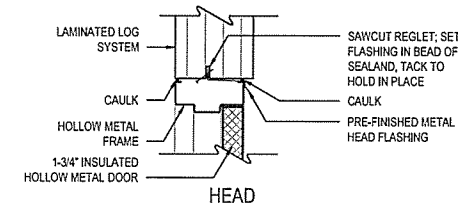
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 RED RIVER
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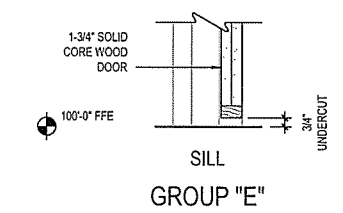
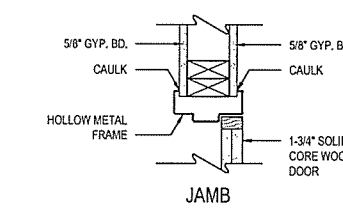
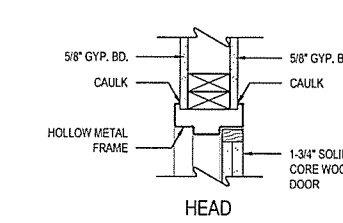
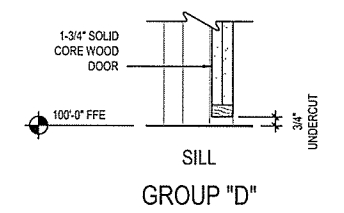
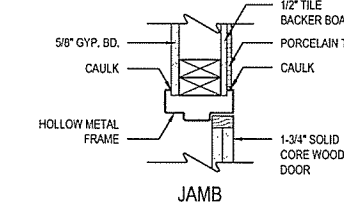
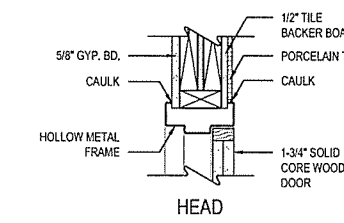
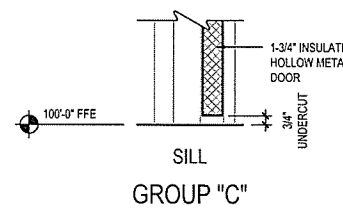
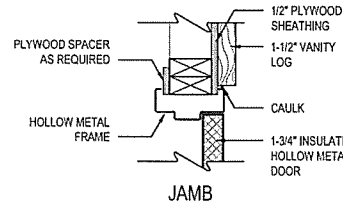
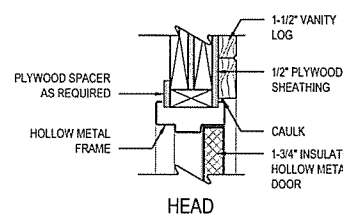
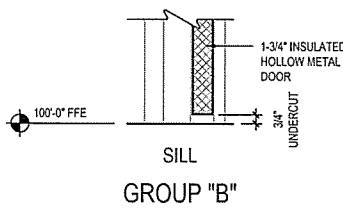
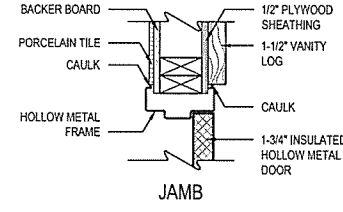
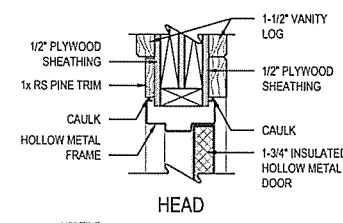
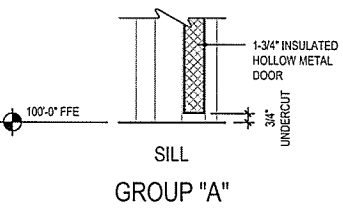
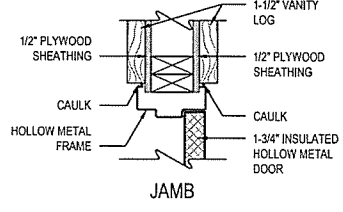
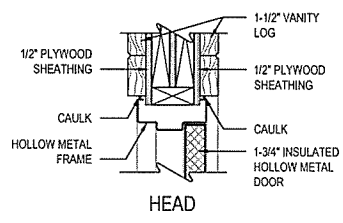
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 SHEET A-502 | REV 77 OF 114



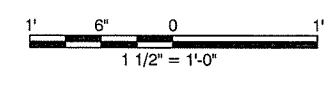
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GENERAL NOTES:
 1. PRIME AND PAINT ALL HOLLOW METAL DOORS AND FRAMES.
 2. USE APPROPRIATE HOLLOW METAL JAMB ANCHORING SYSTEMS FOR ADJACENT CONSTRUCTION.
 3. PROVIDE MINIMUM OF THREE (3) DOOR SILENCERS (RUBBER BUTTON TYPE) PER STRIKE SIDE OF ALL HOLLOW METAL FRAMES.



A DOOR HEAD, JAMB & SILL DETAIL GROUPS
 SCALE: 1 1/2" = 1'-0"



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 DOOR HEAD, JAMB & SILL DETAIL GROUPS

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CHECKED BY	JSR
APPROVED BY	JSR

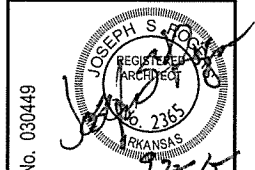
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SHEET	A-503
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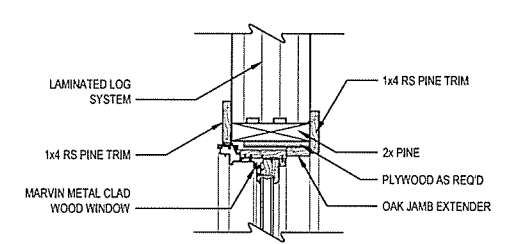
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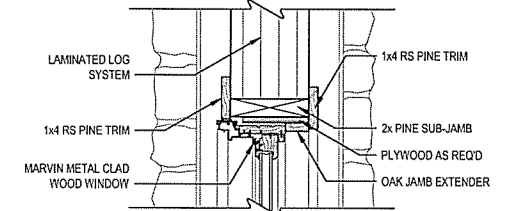
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ARKANSAS WELCOME CENTER
 RED RIVER
WINDOW HEAD, JAMB & SILL DETAIL GROUPS

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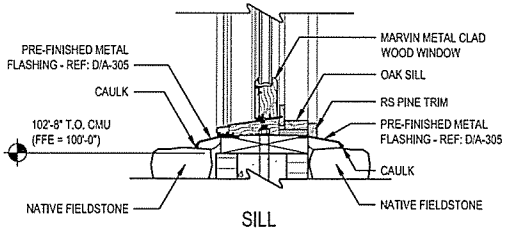
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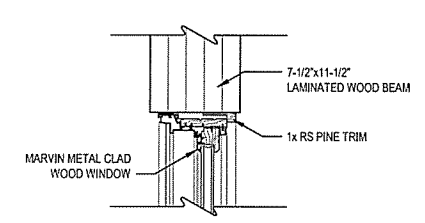
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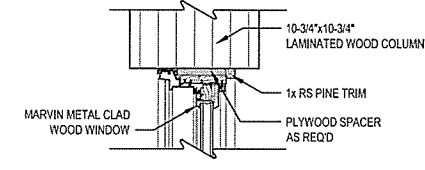
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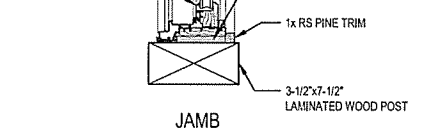
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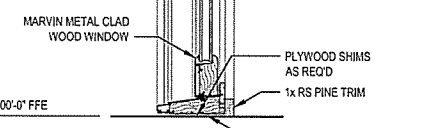
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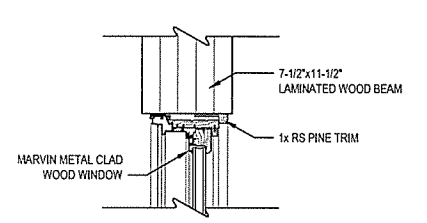
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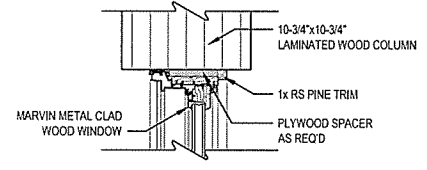
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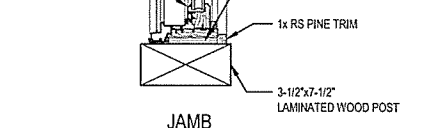
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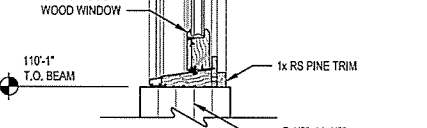
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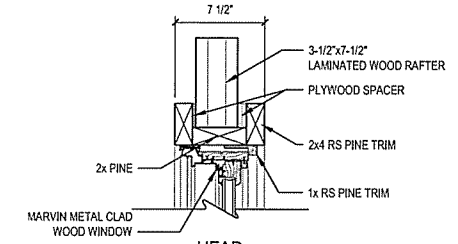
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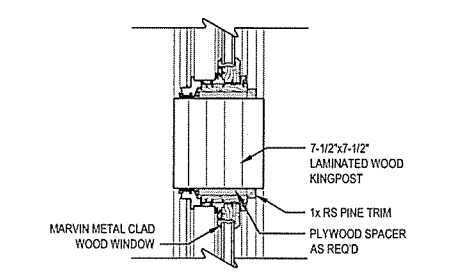
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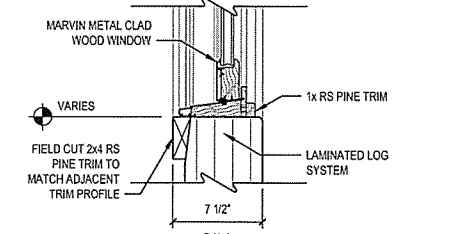
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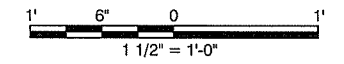


JAMB



SILL GROUP "L"

A-504 WINDOW HEAD, JAMB & SILL DETAIL GROUPS
 SCALE: 1 1/2" = 1'-0"



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INTERIOR FINISH LEGEND

SYMBOL	MATERIAL	VENDOR	PATTERN/FINISH/#	COLOR	REMARKS
FLOORING MATERIAL					
CONC-1	INTEGRALLY STAINED CONCRETE	SCOFIELD SYSTEMS		C-27 WESTWOOD BROWN	
CONC-2	SEALED CONCRETE		SMOOTH FINISH		
CONC-3	SEALED CONCRETE		LIGHT BROOM FINISH		
CPT-1	CARPET - BROADLOOM	MOHAWK COMMERCIAL	EMOTIONS COLLECTION- SMILES-MC112, BROADLOOM	8658 EXCITABLE BROWN	
VCT-1	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS	123 WHEAT	12" X 12" TILE
VCT-2	VINYL COMPOSITION TILE	MANNINGTON	ESSENTIALS	169 OLIVA	12" X 12" TILE, SEE NOTE 2
PFT-1	PORCELAIN FLOOR TILE	DALTILE	VERANDA SOLIDS	P501 GRAVEL	13" X 13", GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
PFT-2	PORCELAIN FLOOR TILE	DALTILE	VERANDA SOLIDS	P500 STEEL	13" X 13", GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
PFT-3	PORCELAIN FLOOR TILE	DALTILE	VERANDA SOLIDS	P502 RUST	13" X 13", GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
SST-1	SIMULATED SLATE TILE	AMERICAN OLEAH	KENDAL SLATE	K502 EASDALE NEUTRAL	12" X 12", GROUT LINE TO BE 3/8" WIDE, GT-1, SEE NOTE #2
SST-2	SIMULATED SLATE TILE	AMERICAN OLEAH	KENDAL SLATE	K502 EASDALE NEUTRAL	6" X 6", GROUT LINE TO BE 3/8" WIDE, GT-1, SEE NOTE #2
HWF-1	HARDWOOD FLOORING	ARMSTRONG COMMERCIAL	CENTURY FARM (HICKORY)	GCH52HOLG HONEY BUTTER	SEE NOTE 2
GT-1	GROUT	CUSTOM BUILDING PRODUCTS		09 GRAY	
GT-2	GROUT	MAPEI		47 CHARCOAL	
FLOOR TRANSITION MATERIAL					
TS-1	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC 716 CT BRONZE	BRONZE	
TS-2	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC 716 CT BRONZE	BRONZE	
TS-3	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC 716 CT BRONZE	BRONZE	
TS-4	TRANSITION STRIP	JOHNSONITE	CTA-63-H	63 BURNT UMBER	
TS-5	TRANSITION STRIP	CERAMIC TOOL COMPANY	CTC RAMP BRONZE	BRONZE	
TS-6	TRANSITION STRIP	JOHNSONITE	CRS-63-D	63 BURNT UMBER	
BASE MATERIAL					
PTB-1	PORCELAIN TILE BASE	DALTILE	VERANDA SOLIDS	P501 GRAVEL	GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
WDB-1	YELLOW PINE WOOD BASE			STAIN:	
RB-1	RUBBER BASE	JOHNSONITE	TIGHTLOCK	63 BURNT UMBER	4" H CONTINUOUS ROLL
WALL MATERIAL					
PT-1	PAINT	PRATT & LAMBERT	SATIN	18-17 SIERRA NIGHT	
PT-2	PAINT	SHERWIN WILLIAMS	SATIN	6107 NOMADIC DESERT	
STN-1	STONE WALL		NATURAL ROCK		
LOG-1	LAMINATED LOG		LAMINATED LOG	STAIN:	
PWT-1	PORCELAIN WALL TILE	DALTILE	VERANDA SOLIDS	P501 GRAVEL	GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
PWT-2	PORCELAIN WALL TILE	DALTILE	VERANDA SOLIDS	P500 STEEL	GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
PWT-3	PORCELAIN WALL TILE	DALTILE	VERANDA SOLIDS	P502 RUST	GROUT LINE TO BE 3/16" WIDE, GT-2, SEE NOTE 2
WDP-1	WOOD PANEL		YELLOW PINE	STAIN:	TO MATCH LAMINATED LOG PROFILE
MILLWORK MATERIAL					
PLAM-1	PLASTIC LAMINATE	NEVAMAR	ARMORED PROTECTION	OCHRE TEMPERA TEXTURED TM2001T	
PLAM-2	PLASTIC LAMINATE	WILSONART		GREEN SOAPSTONE 4885-38	SEE NOTE 2
PLAM-3	PLASTIC LAMINATE	NEVAMAR		BLACK TEXTURED S6001T	
SS-1	SOLID SURFACE	AVONITE	FOUNDATIONS - SATIN	RED ROCK F1-7743	
SS-2	SOLID SURFACE	AVONITE	FOUNDATIONS - SATIN	CLIFFSIDE F1-7931	
GR-1	GRANITE			VERDE FONTAINE	SEE NOTE 1
CEILING MATERIAL					
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	FINE FISSURED 1734	WHITE	24"x48", ANGLED REGULAR, 1/2" GRID
GYP-1	PAINTED GYP BOARD	SHERWIN WILLIAMS	SATIN	6107 NOMADIC DESERT	
WCD-1	WOOD CEILING DECKING		YELLOW PINE	STAIN:	TONGUE AND GROOVE
WCT-1	WOOD CEILING TILE	USG	TRUE WOOD	RED OAK	24"x24"x3/4" AR PANEL, DX/DXL GRID, SEE NOTE 2
INTERIOR DOORS AND WINDOWS					
	WOOD DOORS		OAK	STAIN:	
	METAL DOORS			SEMI-GLOSS FINISH	SEE NOTE #3
	METAL FRAMES			SEMI-GLOSS FINISH	SEE NOTE #3
WINDOW TREATMENTS					
BL-1	BLINDS		WOOD - PINE		TO BE SELECTED BY INTERIOR DESIGNER UPON SUBMITTAL
INTERIOR MISCELLANEOUS					
	TOILET PARTITIONS		STAINLESS STEEL		
	SIGNAGE	AMERICAN BUILDING SPECIALTIES	1300 WOOD FRAME	PT-1/OAK-STAIN: xxx/590 BEIGE	
	WALL SWITCH HANDLES			IVORY	
	STANDARD RECEPTACLE BODIES		BRUSHED BRASS		CUSTOMER SERVICE AREA
	ELECTRICAL COVER PLATES-WALL		BRUSHED BRASS		CUSTOMER SERVICE AREA
	ELECTRICAL COVER PLATES-FLOOR		BRUSHED BRASS		CUSTOMER SERVICE AREA
	FIRE EXTINGUISHER CABINETS		STAINLESS STEEL		
REMARKS:					
WHERE COLOR IS SHOWN AS BEING SPECIFIC TO ONE MANUFACTURER, AN EQUIVALENT COLOR BY ANOTHER MANUFACTURER MAY BE SUBMITTED FOR APPROVAL. MANUFACTURERS AND MATERIALS SPECIFIED ARE NOT INTENDED TO LIMIT THE SELECTION OF EQUAL COLORS FROM OTHER MANUFACTURERS. THE WORD "COLOR" AS USED HEREIN INCLUDES SURFACE COLOR AND PATTERN.					
1. GRANITE TO BE SEALED WITH MANUFACTURE RECOMMENDED SEALER.					
2. COLOR SELECTION TO BE REVIEWED BEFORE PURCHASE/INSTALLATION, SUBMIT FULL RANGE OF COLORS TO ARCHITECT.					
3. METAL DOOR AND FRAMES FOR ACCESS DOORS IN ROOMS 107, 109, 111, 113 TO BE PT-2 (SEMI-GLOSS FINISH). DOORS AND FRAMES 107, 109, 111, 113 RESTROOM SIDE TO BE PT-2 (SEMI-GLOSS FINISH). CORRIDOR SIDE OF DOOR AND FRAMES TO BE PT-1. ALL OTHER METAL DOORS AND FRAMES (INTERIOR SIDE) TO BE PT-1 (SEMI-GLOSS FINISH).					

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL FINISHES				CEILING			KEYED NOTES
				NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	HEIGHT	
101	CUSTOMER SERVICE AREA	CPT-1/ HWF-1	WDB-1	PT-1	LOG-1	LOG-1	LOG-1	WCD-1	STAIN	VARES	
102	INFORMATION DESK	CPT-1	WDB-1	PT-1				WCT-1		8'-6"	
103	OFFICE	CPT-1	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1	WHITE	8'-6"	
104	WORK ROOM	VCT-1/ VCT-2	RB-1	PT-2	PT-2	PT-2	PT-2	ACT-1	WHITE	8'-6"	
105	STAFF TOILET	PFT-1	PTB-1	PWT-1	PWT-1	PWT-1	PWT-1	ACT-1	WHITE	8'-6"	
106	STORAGE ROOM	CONC-2	RB-1	LOG-1	LOG-1	PT-2	LOG-1	WCD-1	STAIN	VARES	
107	MEN'S TOILET	PFT-1, 2, 3	PTB-1	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	WCD-1	STAIN	VARES	
108	SERVICE ROOM	CONC-2									
109	WOMEN'S TOILET	PFT-1, 2, 3	PTB-1	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	WCD-1	STAIN	VARES	
110	CORRIDOR	HST-1	WDB-1	LOG-1/ WDB-1	LOG-1/ WDB-1	LOG-1/ WDB-1	LOG-1/ WDB-1	GYP-1	NOMADIC DESERT	9'-0"	
111	MEN'S TOILET	PFT-1, 2, 3	PTB-1	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	WCD-1	STAIN	VARES	
112	SERVICE ROOM	CONC-2									
113	WOMEN'S TOILET	PFT-1, 2, 3	PTB-1	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	PWT-1, 2, 3	WCD-1	STAIN	VARES	

KEYED NOTES:
 1. SHELVING TO BE PAINTED PT-2 SEMI-GLOSS FINISH

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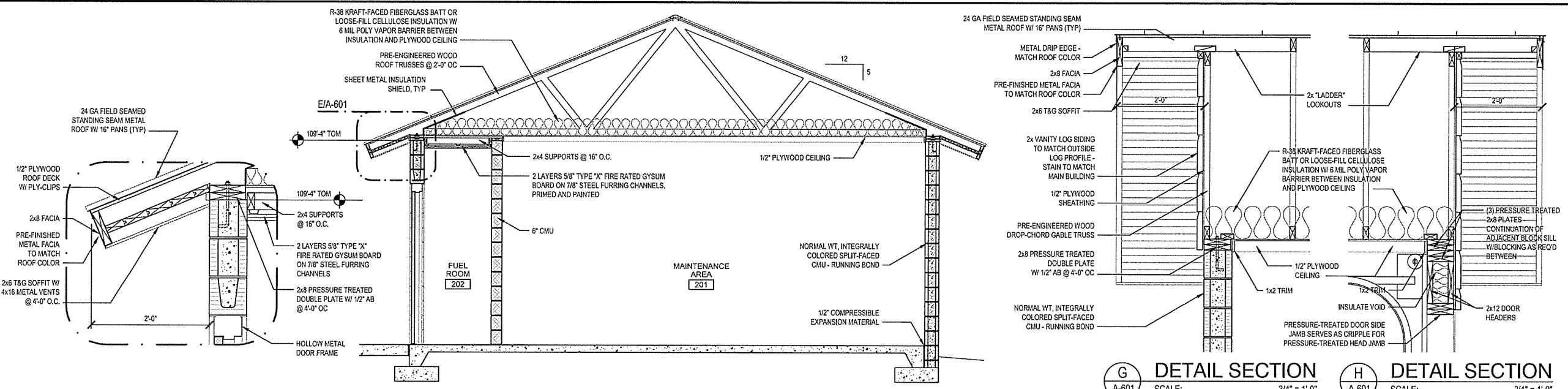
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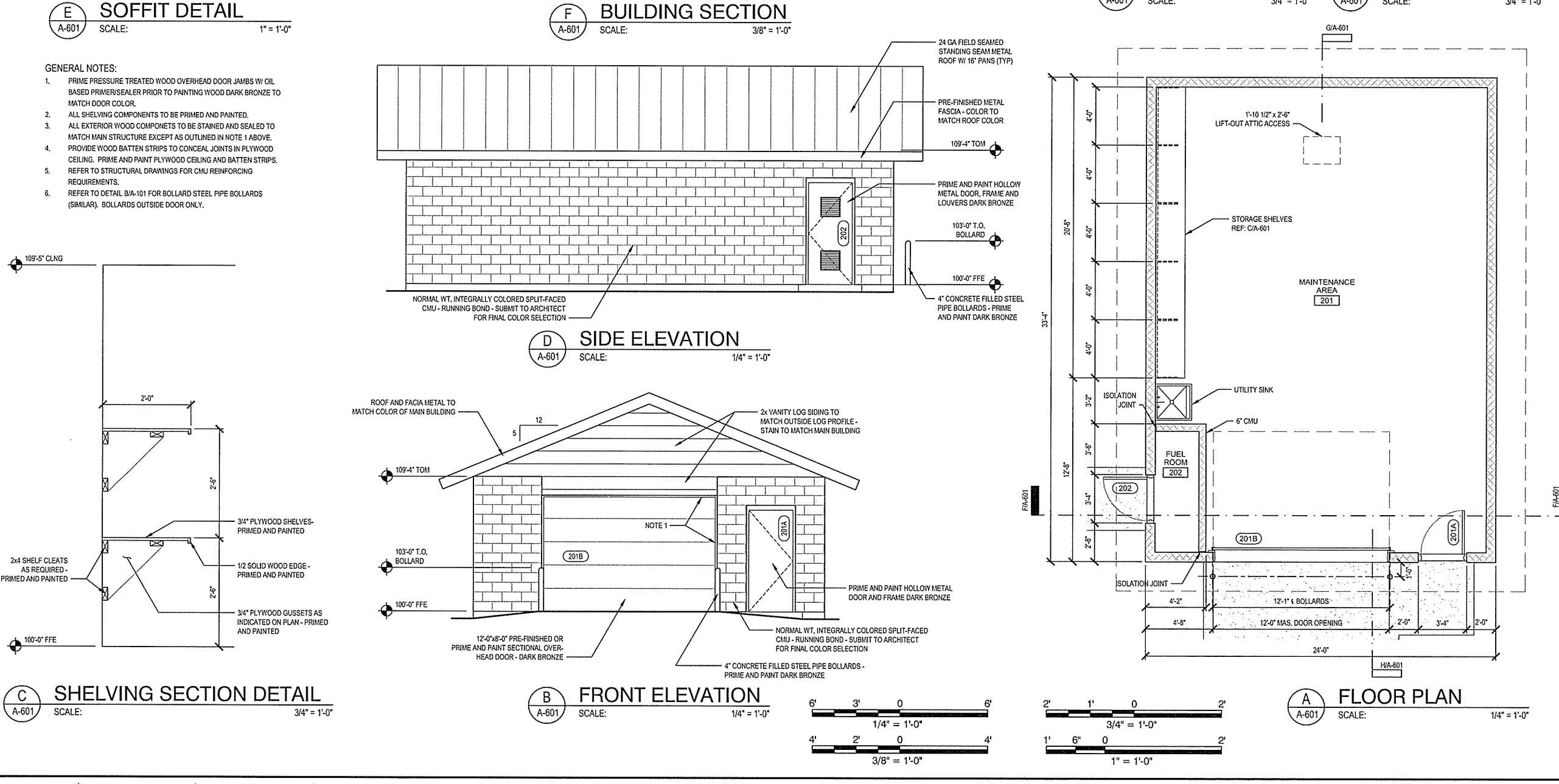
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- GENERAL NOTES:**
1. PRIME PRESSURE TREATED WOOD OVERHEAD DOOR JAMBS W/ OIL BASED PRIMER/SEALER PRIOR TO PAINTING WOOD DARK BRONZE TO MATCH DOOR COLOR.
 2. ALL SHELVEING COMPONENTS TO BE PRIMED AND PAINTED.
 3. ALL EXTERIOR WOOD COMPONENTS TO BE STAINED AND SEALED TO MATCH MAIN STRUCTURE EXCEPT AS OUTLINED IN NOTE 1 ABOVE.
 4. PROVIDE WOOD BATTEN STRIPS TO CONCEAL JOINTS IN PLYWOOD CEILING. PRIME AND PAINT PLYWOOD CEILING AND BATTEN STRIPS.
 5. REFER TO STRUCTURAL DRAWINGS FOR CMU REINFORCING REQUIREMENTS.
 6. REFER TO DETAIL B/A-101 FOR BOLLARD STEEL PIPE BOLLARDS (SIMILAR). BOLLARDS OUTSIDE DOOR ONLY.



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NO.	DATE	ISSUED FOR	DESCRIPTION OF REVISION OR ISSUE	BY	APPD.
0	9/25/2015	DATE			

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MAINTENANCE BUILDING

DESIGNED BY JSR
 DRAWN BY AMB
 CHECKED BY JSR
 APPROVED BY JSR

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER
 313841
 SHEET A-601 | REV
 81 OF 114

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GENERAL STRUCTURAL AND CONSTRUCTION NOTES

THESE NOTES SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS.

A. CODES AND STANDARDS:

- 1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.
a. '2012 INTERNATIONAL BUILDING CODE', INTERNATIONAL CODE COUNCIL, INC.
b. '2012 ARKANSAS FIRE PREVENTION CODE', AND A.C.A. 12-80-101 ET. SEQ. (ARKANSAS LAW).
c. 'MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES' (ANSI/ASCE 7-10), AMERICAN SOCIETY OF CIVIL ENGINEERS.
d. 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-11', AMERICAN CONCRETE INSTITUTE.
e. 'MANUAL OF STANDARD PRACTICE', CONCRETE REINFORCING STEEL INSTITUTE.
f. 'MANUAL OF STEEL CONSTRUCTION', FOURTEENTH EDITION, 2010, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
g. 'STRUCTURAL WELDING CODE ANSI/AWS D1.1-2010, AWS D1.3-98, AND ANSI/AWS D1.8-2009', AMERICAN WELDING SOCIETY.
h. 'BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-05/ASCE 5-11) & SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-11/ASCE 6-11)'.
i. 'DESIGN SPECIFICATIONS', TIMBER CONSTRUCTION MANUAL, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
j. 'NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION', 2012, NATIONAL FOREST PRODUCTS ASSOCIATION.
k. 'AMERICAN NATIONAL STANDARD FOR WOOD PRODUCTS -- STRUCTURAL GLUED LAMINATED TIMBER', ANSI/AITC A190.1-2002, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
l. 'PERFORMANCE STANDARD AND POLICIES FOR STRUCTURAL-USE PANELS', PRP-108, AMERICAN PLYWOOD ASSOCIATION (APA).

B. DESIGN DATA:

- 1. BUILDING RISK CATEGORY: II
ALL LOADS PROVIDED IN GENERAL NOTES AND ON DRAWINGS ARE SERVICE LOADS.
2. GRAVITY - SUPERIMPOSED LIVE LOADS
AREA ESE
a. EQUIPMENT PLATFORM 40
b. ROOF LIVE LOAD 20 PSF MINIMUM (SNOW LOAD IS USED WHEN GREATER THAN 20 PSF)
GROUND SNOW LOAD Pg = 10 PSF
ROOF SNOW LOAD Pf = 0.7(Pg)(Ce)(Ct) = 0.7(10)(1.0)(1.1) = 7.7 + DRIFTING SNOW AS APPLICABLE.

3. LATERAL LOADS - WIND

- a. MAIN WIND-FORCE RESISTING SYSTEM:
(1) BASIC WIND SPEED: 115 MPH EXPOSURE: C
(2) INTERNAL PRESSURE COEFFICIENT 0.18
HEIGHT (FT) EFFECTIVE PRESSURE (PSF)
20 15.75
b. COMPONENTS & CLADDING - TO BE DESIGNED IN ACCORDANCE WITH ANSI/ASCE 7-10.
c. NET WIND UPLIFT: 23 PSF

4. LATERAL LOADS - SEISMIC

- a. SEISMIC IMPORTANCE FACTOR (Ie): 1.0
b. SPECTRAL RESPONSE ACCELERATION (Ss): 0.1466
c. SPECTRAL RESPONSE ACCELERATION (S1): 0.0803
d. SITE CLASS: E
e. SPECTRAL RESPONSE COEFFICIENT (Sds): 0.244
f. SPECTRAL RESPONSE COEFFICIENT (Sd1): 0.187
g. SEISMIC DESIGN CATEGORY: C
h. BASIC SEISMIC-FORCE-RESISTING SYSTEM: STEEL
SYSTEMS NOT SPECIFICALLY DETAILED
FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS
i. RESPONSE MODIFICATION FACTOR (R): 3.00
j. DESIGN BASE SHEAR: 0.057*W
k. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

5. LATERAL LOADS - EARTH PRESSURE

- a. LATERAL EQUIVALENT FLUID PRESSURE
(1) AT REST CONDITION (BRACED WALLS): 65 PSF/FT OF DEPTH
(2) ACTIVE CONDITION (CANTILEVERED RETAINING WALLS): 45 PSF/FT OF DEPTH

6. THE FOUNDATIONS AND STRUCTURE FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

C. FOUNDATIONS/GEOTECHNICAL REPORT:

- 1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY THE ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT DATED JUNE 18, 2015, REPORT NO. 030449. SEE THAT REPORT FOR ADDITIONAL REQUIREMENTS.
2. FOUNDATIONS PLACED ON UNDISTURBED SOIL OR COMPACTED SELECT FILL HAVE BEEN DESIGNED FOR AN ALLOWABLE NET BEARING PRESSURE OF 1,500 PSF.

D. MATERIALS:

- 1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE

MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.

- 2. CEMENT: ASTM C150; TYPE I OR III
3. FLY ASH: ASTM C615, TYPE C (LIMIT TO 25% MAX OF CEMENTITIOUS CONTENT BY WEIGHT)
4. AGGREGATES: ASTM C33 (NORMAL WEIGHT)
5. CONCRETE: ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED 5% +/- 1-1/2% BY VOLUME. AIR-ENTRAINING ADMIXTURE TO COMPLY WITH ASTM C260. DO NOT EXCEED 3% AIR CONCRETE RECEIVING A STEEL TROWEL FINISH.

Table with columns: APPLICATION, F'C @ 28 DAYS, WT (PCF), W/C (MAX). Rows include SLABS ON GRADE, FOOTINGS, PIER/PEDESTAL, WALLS.

- 6. REINFORCEMENT:
a. DEFORMED REINFORCING BARS ASTM A615, GRADE 60
b. WELDED WIRE FABRIC (WWF) ASTM A185
7. MASONRY:
a. LOAD BEARING CONCRETE MASONRY COMPRESSIVE STRENGTH ON STANDARD CONCRETE MASONRY UNITS ASTM C90; MINIMUM NET AREA = 1900 PSI
b. MORTAR ASTM C270 - TYPE S (ABOVE GRADE)
c. GROUT ASTM C476; MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 2000 PSI
d. HORIZONTAL JOINT REINFORCING ASTM A951; 9 GAGE TRUSS-TYPE GALVANIZED
e. PRISM STRENGTH F'M = 1500 PSI PER ACI 530/ASCE 5

8. STEEL:

- a. STRUCTURAL SHAPES ASTM A992
b. PLATES, CHANNELS, ANGLES & MISC ASTM A36
c. HIGH STRENGTH BOLTS ASTM A325
d. ANCHOR BOLTS WITH HEAVY HEX HEAD AND HEAVY HEX NUT ASTM F1554, GRADE 36
e. SMOOTH & THREADED ROD ASTM A36
f. HEADED SHEAR STUDS ASTM A108
g. WELDING ELECTRODES AWS A5.1 OR A5.5, E70XX
h. ADHESIVE ANCHORING SYSTEM HILTI HIT HY-200 SYSTEM, SIMPSON ACRYLIC TIE SYSTEM, OR APPROVED EQUAL

9. TIMBER (SAWN LUMBER):

- IN THE FOLLOWING ALL SAWN LUMBER SHALL BE KILN DRY SOUTHERN PINE GRADES:
a. STUDS NO. 2 OR BETTER
b. JOISTS AND RAFTERS NO. 2 OR BETTER
c. BEAMS, POSTS AND TIMBERS NO. 2 OR BETTER
d. MISC FRAMING (BLOCKING, SILL PLATES, ETC) STANDARD AND BETTER OR STUD
e. TONGUE AND GROOVE DECKING NO. 1 OR BETTER
f. ALL NAILS SHALL BE COMMON WIRE NAILS WITH THE FOLLOWING DIAMETERS:
8d 0.131"
10d 0.148"
12d 0.148"
16d 0.162"

10. STRUCTURAL GLUED LAMINATED TIMBER SHALL BE SOUTHERN PINE GRADE:

- a. COMBINATION SYMBOL: 24F-V3 FOR SIMPLE SPAN BEAMS
b. COMBINATION SYMBOL: 24F-V5 FOR CONTINUOUS SPAN BEAMS
c. COMBINATION SYMBOL: 4B FOR COLUMNS
d. COMBINATION SYMBOL: 24F-V3 FOR WALL LOGS
e. ADHESIVE: MIL-A-397B, MIL-A-5334A, OR ASTM2559-66T
f. ARCHITECTURAL APPEARANCE GRADE UNLESS NOTED

11. PLYWOOD PANELS: PROVIDE APA PERFORMANCE-RATED PANELS COMPLYING WITH THE INDICATED REQUIREMENTS FOR THICKNESS, SPAN RATING AND EDGE DETAIL (WHERE APPLICABLE):

- a. PLYWOOD ROOF SHEATHING 19/32" THICK, EXPOSURE 1, SPAN RATING 40/20
b. ORIENTED STRAND BOARD (OSB) WALL SHEATHING 15/32" THICK, EXPOSURE 1, SPAN RATING 32/16
c. PLYWOOD FLOOR SHEATHING 23/32" THICK STURD-I-FLOOR, TONGUE AND GROOVE EDGES, EXPOSURE 1, 24" O.C.

E. CONSTRUCTION:

- 1. GENERAL
a. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
b. SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT HE HAS VERIFIED ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.
c. SUBMIT CONCRETE MIX DESIGNS PROPORTIONED ON THE BASIS OF FIELD EXPERIENCE OR TRIAL BATCHES IN ACCORDANCE WITH ACI 318 CHAPTER 5. SUBMIT LABORATORY TEST REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TESTS.
d. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK, FORMWORK, STAGNOS, BRACING, SHEETING AND SHORING, ETC. THE STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS AND DECKING IS IN PLACE.
e. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF

THE CONTRACTOR:

- f. ALL COSTS OF INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE PROJECT DOCUMENTS, SHALL BE AT THE CONTRACTOR'S EXPENSE.
g. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, LAUNDRY AND FOOD SERVICE DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, AND DEPRESSIONS.
h. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, ETC.
i. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF ALL SUCH PARTITIONS. CONNECTIONS SHALL BE DESIGNED TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRESAFING AT TOP OF WALL AS REQUIRED BY ARCHITECTURAL DRAWINGS.
j. THE CONTRACTOR SHALL SUBMIT, FOR REVIEW, DRAWINGS AND CALCULATIONS FOR ALL OF THE FOLLOWING ASSEMBLIES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR THIS ENGINEER'S SEAL AND SIGNATURE. REVIEW SHALL BE FOR GENERAL CONFORMANCE WITH THE PROJECT PARAMETERS AS INDICATED ON THE DRAWINGS AND IN THE GENERAL NOTES.
(1) METAL RAILINGS: DESIGNS SHALL TAKE INTO ACCOUNT ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED BY THE STRUCTURAL ENGINEER OF RECORD TO SUPPORT THE STAIRS, THE CONNECTIONS FROM THE STAIRS SHALL BE DESIGNED SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED IN THESE STRUCTURAL MEMBERS.
k. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.
l. CONTRACTOR SHALL FURNISH DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS SHOWING THE LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES.
2. INSPECTION AND TESTING:
a. THE CONTRACTOR SHALL ENGAGE AN INSPECTION AGENCY TO PROVIDE SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE AND SUBMIT REPORTS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE INSPECTION AGENCY.
b. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
c. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
d. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND THE REGISTERED PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
e. 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.
f. SOIL TESTING AND INSPECTIONS:
(1) A QUALIFIED TESTING LABORATORY SHALL TEST ALL COMPACTED SELECT 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 DESIGN CAPACITY.
g. CAST-IN-PLACE CONCRETE:
(1) SAMPLE FRESH CONCRETE IN ACCORDANCE WITH ASTM C172. MOLD TEST CYLINDERS IN ACCORDANCE WITH ASTM C31. THE MINIMUM NUMBER OF TEST CYLINDERS SHALL BE TWO FOR TESTING AT 7 DAYS, THREE FOR TESTING AT 28 DAYS, AND ONE SPARE. TEST CYLINDERS SHALL BE MADE FOR EACH DAYS WORK FOR EACH CLASS OF CONCRETE, OR NOT LESS THAN EACH 75 CUBIC YARDS OF CONCRETE, OR EACH 5000 SQUARE FEET OF SURFACE AREA FOR SLABS AND WALLS.
(2) THE AGENCY WILL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE AT THE CONTRACTOR'S EXPENSE WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS HAVE NOT BEEN ATTAINED, AS DIRECTED BY THE STRUCTURAL ENGINEER.
h. MASONRY:
(1) PERFORM COMPRESSION TEST ON MASONRY UNITS, GROUT, AND MORTAR FOR EACH TYPE OF WALL CONSTRUCTION AND EACH 5000 SQUARE FEET OF WALL THEREAFTER, BUT NOT LESS THAN 2 TESTS FOR UNIT STRENGTH METHOD EVALUATION.
i. STRUCTURAL STEEL:
(1) INSPECTIONS SHALL BE PROVIDED FOR BOTH SHOP FABRICATION AND FIELD ERECTION OF STRUCTURAL STEEL.
(2) EXCEPTION: SHOP INSPECTIONS WILL NOT BE REQUIRED FOR STEEL FABRICATORS THAT ARE ASC CERTIFIED TO "CERTIFICATION STANDARD FOR STEEL BUILDING STRUCTURES."
j. WOOD:
(1) INSPECTIONS SHALL BE PROVIDED FOR BOTH SHOP FABRICATION AND FIELD CONSTRUCTION OF WOOD.
(2) EXCEPTION: SHOP INSPECTIONS WILL NOT BE REQUIRED FOR MANUFACTURER'S OF LAMINATED PRODUCTS BEING AN "AIRC CERTIFIED FABRICATOR". SHOP INSPECTIONS WILL NOT BE REQUIRED FOR WOOD TRUSS FABRICATORS HAVING "IN-PLANT WICA QUALITY CONTROL" CERTIFICATION.
F. FOUNDATIONS & STRUCTURAL EARTHWORK:
1. GENERAL:
a. SEE THE SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADE, INCLUDING COMPACTION PROCEDURES. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.
b. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF

- THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.
c. THE SIZE, LOCATION AND DEPTH OF THE UTILITIES ARE NOT KNOWN EXACTLY AND MAY VARY SIGNIFICANTLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
d. ALL FOUNDATIONS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED SELECT FILL. DETERMINATION OF FINAL BEARING ELEVATIONS AND FIELD VERIFICATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
e. CONCRETE FOR FOUNDATIONS SHALL BE PLACED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
f. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
g. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL, UNLESS INDICATED OTHERWISE IN THE GEOTECHNICAL REPORT.
h. ALL SHORING, SHEETING, AND DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. SHEETING AND SHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMITTALS SHALL BEAR HIS SEAL AND SIGNATURE.
i. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING STRUCTURES, CURBS, STREETS, ETC FROM DAMAGE BY CONSTRUCTION OF ANY LIQUIDS, SLURRY, SPOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES OR OTHER AGENCIES HAVING JURISDICTION.
2. BACKFILL:
a. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL CONSISTING OF BANK RUN GRAVEL, CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER, WITH OPTIMUM MOISTURE CONTENT FOR COMPACTION AND SHALL BE FREE OF ANY DEBRIS.
b. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST FOUNDATION WALLS UNTIL THE UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST 7 DAYS, OR ADEQUATE BRACING IS INSTALLED.
c. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME.
3. COMPACTED SELECT FILL:
a. REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR COMPACTED SELECT FILL. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK. INSPECTION OF THE PLACEMENT OF COMPACTED SELECT FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.
GENERAL NOTES CONTINUED ON S0.01

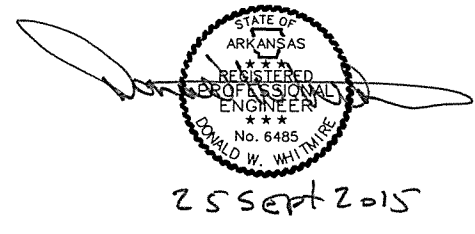
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Table with columns: NO., DATE, DESCRIPTION OF REVISION OR ISSUE, BY, APP'D.

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
RED RIVER
GENERAL NOTES

DESIGNED BY ECI
DRAWN BY ECI
CHECKED BY ECI
APPROVED BY ECI

DATE 9/25/2015
SCALE AS SHOWN
LEIDOS PROJECT NUMBER 313841
SHEET S0.00 REV
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25 Sept 2015

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GENERAL NOTES CONTINUED FROM S0.00

- G. CONCRETE:**
1. CAST-IN-PLACE:
 - a. REINFORCING STEEL CLEAR COVER SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

(1) MILD REINFORCED CONCRETE:	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER	2"
#6 BARS AND LARGER	1-1/2"
#5 BARS AND SMALLER	1-1/2"
 - b. 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 1-1/2" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT
 - c. IF DOWELS OR VERTICAL BARS 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 CONTRACTORS EXPENSE.
 - d. ALL FORMWORK, SHORING AND RESHORING SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. ALL SUBMISSIONS SHALL BEAR HIS SEAL AND SIGNATURE.
 - e. NO SLEEVE SHALL BE PLACED THROUGH ANY CONCRETE ELEMENT UNLESS SHOWN ON THE STRUCTURAL DRAWINGS, APPROVED SLEEVING SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
 - f. CORE DRILLING OF FOUNDATIONS OR SLABS SHALL NOT BE PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.
 - g. NO SPLICES OF REINFORCEMENT SHALL BE PERMITTED EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. MAKE BARS CONTINUOUS AROUND CORNERS. WHEN PERMITTED, SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.
 - h. ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE SPLICED WITH A CLASS B TENSION LAP.
 - i. ALL INSERTS AND SLEEVES SHALL BE CAST-IN-PLACE WHENEVER FEASIBLE. DRILLED OR POWDER DRIVEN FASTENERS WILL BE PERMITTED WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS.
 - j. WHEN INSTALLING ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING ADHESIVE ANCHORS.
 - k. CHAMFER ALL EXPOSED CONCRETE CORNERS, 3/4" X 3/4" MINIMUM, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
 - l. FOUNDATIONS AND SLABS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE UNLESS SHOWN OTHERWISE.
 - m. WELDED WIRE FABRIC REINFORCEMENT SHALL BE SUPPLIED IN SHEETS. LAP TWO FULL MESH LENGTHS AT SPLICES AND WIRE TOGETHER.
 - n. NO WELDING OF REINFORCING SHALL BE PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER.
 - o. PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IS IN CONTACT WITH THE BOLSTERS OR CHAIRS ARE EXPOSED.
 - p. FOR SLABS ON GRADE, USE SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS.

- H. MASONRY:**
1. GENERAL:
 - a. PROVIDE STANDARD WEIGHT GALVANIZED HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AND PARTITIONS AT 16" O.C. UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE ONE PIECE PREFABRICATED UNITS AT 8" O.C. AT ALL WALL CORNERS AND INTERSECTIONS.
 - b. PROVIDE MASONRY ANCHORS AT 16" O.C. SET ON COURSING AND ATTACHED TO ALL BEAMS, COLUMNS, PARTITIONS AND WALLS ABUTTING OR EMBEDDED IN MASONRY.
 - c. PROVIDE BOND BEAMS WITH 2 #4 HORIZONTAL REINFORCEMENT CONTINUOUS IN ALL MASONRY WALLS AT EACH FRAMING LEVEL.
 - d. ALL PIERS AND PARTITIONS SHALL BE BONDED OR ANCHORED TO ADJACENT MASONRY WALLS. PROVIDE TIES TO ADJACENT FLOOR AND ROOF CONSTRUCTION IN ACCORDANCE WITH DETAILS ON DRAWINGS.
 - e. IN GROUTED AND/OR REINFORCED MASONRY WALLS, USE MASONRY UNITS WITH CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CELLS FOR GROUTING AND REINFORCING STEEL PLACEMENT.
 - f. LAP SPLICES FOR DEFORMED REINFORCING BARS USED IN MASONRY CONSTRUCTION SHALL BE 48 BAR DIAMETERS.
 - g. ALL WALL SECTIONS AND PIERS LESS THAN 4 SQUARE FEET IN CROSS-SECTIONAL AREA TO BE FULLY GROUTED OR OF 100% SOLID MASONRY UNITS.
 - h. SUBMIT GROUT MIX DESIGN AND MASONRY UNIT CERTIFICATIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL.
 - i. CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SUPPORT FOR ALL MASONRY WORK UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
 - j. SEE SPECIFICATIONS AND DETAILS FOR GENERAL CONTROL JOINT REQUIREMENTS. JOINTS ARE TO BE CONSTRUCTED IN ALL WALLS AND PARTITIONS.
 - k. THE CONTRACTOR SHALL VERIFY ALL OPENINGS BELOW LINTELS INDICATED ARE ADEQUATE TO ACCEPT DOOR FRAMES, LOUVERS, ETC. AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES PRIOR TO LINTEL INSTALLATION.
 - l. NO OPENINGS SHALL BE PLACED ABOVE ANY LINTEL WITHIN A HEIGHT LESS THAN OR EQUAL TO THE WIDTH OF THE CLEAR OPENING BELOW THE LINTEL, UNLESS SPECIFICALLY SHOWN OR APPROVED BY

- THE STRUCTURAL ENGINEER.**
- H. STRUCTURAL STEEL:**
1. GENERAL:
 - a. ALL SHOP AND FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS. ALL HIGH STRENGTH BOLTS AND NUTS SHALL BE CLEARLY MARKED AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.
 - b. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
 - c. **ALTERNATE CONNECTION DESIGNS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.** IF SUCH APPROVAL IS GRANTED, ALL CONNECTIONS, SPLICES AND DESECTION PIECES NOT IN ACCORDANCE WITH CONTRACT DRAWINGS (FABRICATOR REDESIGN) SHALL BE DESIGNED BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED BEARING THE ENGINEER'S SEAL AND SIGNATURE.
 - d. ALL STEEL AT AND BELOW FINISHED GRADE OR FLOOR SLAB SHALL RECEIVE TWO (2) COATS OF BITUMINOUS PAINT - OR 3" MINIMUM CONCRETE COVER.
 - e. THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.
 - f. CONNECTIONS SHALL BE SELECTED FOR REACTIONS AS SHOWN ON PLANS AND AS DETAILED AND SCHEDULED. NO CONNECTION SHALL CONSIST OF LESS THAN TWO (2) 3/4" DIA. A325-N BOLTS OR WELDS DEVELOPING LESS THAN 10,000 POUNDS. MINIMUM WELD 3/16" FILLET. ALL REACTIONS PROVIDED ARE SERVICE LOADS.
 - g. UNLESS OTHERWISE NOTED, ALL A325 BOLTS SHALL BE TIGHTENED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH. THE PLIES SHOULD BE IN FIRM CONTACT, A CONDITION THAT MEANS THE PLIES ARE SOLIDLY SEATED AGAINST EACH OTHER, BUT NOT NECESSARILY IN CONTINUOUS CONTACT.
 - h. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.
 - i. WHEN INSTALLING ADHESIVE ANCHORS, THE CONTRACTOR SHALL TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. HOLES SHALL BE BLOWN CLEAN PRIOR TO PLACING ADHESIVE ANCHORS.
 - j. WELDING ELECTRODES, WELDING PROCESS, MINIMUM PREHEAT AND INTERPASS TEMPERATURES SHALL BE IN ACCORDANCE WITH THE AISC AND AWS SPECIFICATIONS. ANY STRUCTURAL STEEL DAMAGED IN WELDING IS TO BE REPLACED OR REINFORCED AS ACCEPTABLE TO THE STRUCTURAL ENGINEER.
 - k. WELDERS SHALL HAVE CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. THE ENGINEER MAY REQUEST SUCH EVIDENCE AT ANY TIME DURING THE PROJECT.
 - l. GAS CUTTING TORCHES SHALL NOT BE USED TO CORRECT FABRICATION ERRORS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

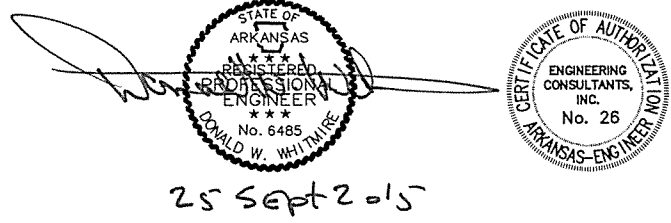
- J. WOOD:**
1. SAWN LUMBER:
 - a. SEE INTERNATIONAL BUILDING CODE CHAPTER 23 FOR MINIMUM BRACING AND FASTENING.
 - b. MEMBERS SHALL BE SET WITH CROWN UP AND HAVE A MINIMUM OF 3" BEARING.
 - c. MEMBERS FRAMING TO BEAMS, HEADERS, ETC. SHALL BE SECURED WITH SIMPSON STRONG-TIE FRAMING ANCHORS OR APPROVED EQUAL, UNLESS OTHERWISE NOTED OR SHOWN.
 - d. ALL JOISTS AND RAFTERS SHALL BE RIGIDLY BRIDGED AT INTERVALS NOT EXCEEDING 8'-0".
 - e. USE 16D NAILS AT 12" ON CENTER TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES TO JOIN MULTIPLE 2X BEAMS, JOISTS, OR GIRDERS SO THAT THE LOAD DISTRIBUTES EQUALLY. NAILS SHALL BE SPACED A MINIMUM OF 3/4" FROM TOP AND BOTTOM EDGE.
 - f. USE TWO ROWS OF 12D NAILS AT 8" ON CENTER TO JOIN MULTIPLE 2X COLUMNS SO THAT LOAD DISTRIBUTES EQUALLY. ADJACENT NAILS ARE TO BE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN.
 - g. AND SHALL PENETRATE THE NEXT LAMINATION AT LEAST 1-1/4". NAILS SHALL BE SPACED A MINIMUM OF 3/4" FROM THE EDGES.
 - h. ALL WOOD SILL PLATES SHALL BE ANCHORED TO GROUT FILLED CMU OR CONCRETE FOUNDATIONS WITH 1/2" DIA. ANCHORS AT 4'-0" O.C. OR 2 ANCHORS MINIMUM PER MEMBER. ANCHOR BOLTS SHALL BE EMBEDDED A MINIMUM OF 15" INTO MORTAR GROUT AND 8" INTO CAST-IN-PLACE CONCRETE FOUNDATIONS.
 - i. ALL BOLTS AND LAG BOLTS SHALL BE FITTED WITH GALVANIZED, MALLEABLE IRON OR STEEL PLATE WASHERS.
 - j. CONNECTION DETAILS SHOW ARRANGEMENT OF STRUCTURAL MEMBERS ONLY. DESIGN OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE BUILDER/FABRICATOR.

- K. GLUED LAMINATED LUMBER:**
1. GLUED-LAMINATED WOOD MANUFACTURER SHALL SUBMIT SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
 2. ALL GLUED-LAMINATED WOOD TRUSSES, BEAMS, COLUMNS, GIRTS, CONNECTIONS, SHOES, ETC. REQUIRED FOR THE DESIGN OF THE ROOF AND WALL SYSTEM, SHALL BE DESIGNED, FABRICATED, AND SUPPLIED BY A QUALIFIED GLUED-LAMINATED WOOD MANUFACTURER WITH AT LEAST FIVE (5) YEARS OF RELATED EXPERIENCE. ALL MATERIALS AND QUALITY CONTROLS SHALL CONFORM TO ANS/AITC 190.1-2007.
 3. PROVIDE CAMBER AT MIDSPAN OF ALL MEMBERS AS INDICATED ON PLANS.
 4. FURNISH GLUED-LAMINATED WOOD MEMBERS BEARING THE QUALITY MARK OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) FOR THE GRADE SPECIFIED.
 5. MEMBERS SHALL BE ATC "ARCHITECTURAL APPEARANCE GRADE."
 6. ALL WOOD SHALL HAVE A FACTORY APPLIED COAT OF CLEAR PENETRATING SEALER USING "WOODLIFE" OR "PENTA SEAL" OR APPROVED EQUAL.
 7. ALL STEEL HARDWARE SHALL BE SHOP PRIME PAINTED WITH A RUST INHIBITIVE COATING.
 8. ALL GLUED-LAMINATED WOOD MEMBERS EXPOSED TO WEATHER SHALL BE PRESERVATIVE TREATED.
 9. ALL FABRICATED GLUED-LAMINATED MEMBERS SHALL COMPLY WITH THE "STANDARD SPECIFICATIONS FOR GLUED-LAMINATED LUMBER" AS ADOPTED BY THE SOUTHERN PINE ASSOCIATION (SPA), THE NATIONAL DESIGN SPECIFICATIONS (NDS), AND THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)

- STANDARDS.**
10. THE CONNECTIONS SHOWN ARE REPRESENTATIVE OF THE DESIRED CONFIGURATION. FINAL DESIGN OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE GLUED-LAMINATED SUPPLIER. ALL CONNECTIONS SHALL BE CONCEALED FROM VIEW. ALL COUNTERSINKS SHALL BE FILLED WITH DOWEL STOCK AND KERF CUTS FILLED WITH SAME SPECIES OF WOOD.
 11. ALL GLUED-LAMINATED MEMBERS SHALL BE INDIVIDUALLY WRAPPED IN A MOISTURE-RESISTANT NON-STAINING FURNITURE WRAP PAPER FOR THE PROTECTION OF THE FINISH.
 12. IF TEMPORARILY STORED, ALL MEMBERS SHALL BE PLACED ON BLOCKS OFF THE GROUND AND SEPARATED FOR AIR CIRCULATION AROUND EACH MEMBER. COVER TOP AND SIDES WITH MOISTURE RESISTANT PAPER.
 13. PROTECTIVE WRAPPING SHALL REMAIN ON THE MEMBERS UNTIL THE BUILDING IS ENCLOSED AND THE FINISH COATINGS ARE READY TO BE APPLIED.
- L. PLYWOOD PANELS:**
1. FACTORY-MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS.
 2. INSTALL PANELS WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS, UNLESS SHOWN OTHERWISE.
 3. FLOOR SHEATHING IN ALL OTHER AREAS SHALL BE GLUED AND NAILED TO ALL SUPPORTS. FASTENERS SHALL BE 10D COMMON NAILS SPACED AT 6" ON CENTER AT PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS.
 4. UNLESS NOTED OTHERWISE, ROOF SHEATHING SHALL BE ATTACHED WITH 10D COMMON NAILS AT 6" ON CENTER AT SUPPORTED EDGES AND 12" ON CENTER ALONG ALL INTERMEDIATE SUPPORTS.
- M. WOOD PRESERVATIVE TREATMENT:**
1. WHERE LUMBER OR PLYWOOD IS INDICATED AS "TREATED", COMPLY WITH APPLICABLE REQUIREMENTS OF AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDS U1. MARK EACH TREATED ITEM WITH THE AWPA QUALITY MARK REQUIREMENTS.
 2. PRESSURE TREAT ABOVE-GROUND ITEMS WITH WATERBOUNE PRESERVATIVES IN ACCORDANCE WITH AWPA STANDARD U1 TO THE FOLLOWING REQUIREMENTS:
 - a. INTERIOR MEMBERS IN CONTACT WITH MASONRY OR CONCRETE UC2
 - b. EXTERIOR DECKS AND FRAMING UC3B
 3. AFTER TREATMENT, KILN-DRY LUMBER AND PLYWOOD TO A MAXIMUM MOISTURE CONTENT, RESPECTIVELY, OF 10 PERCENT AND 15 PERCENT.
 4. TREAT INDICATED ITEMS AND WOOD SILLS, SLEEPERS, BLOCKING AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.

ABBREVIATIONS

AA	ADHESIVE ANCHORS
ADDL	ADDITIONAL
AF	ADJUST
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
CJ	(KEYED) CONSTRUCTION JOINT
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONT	CONTINUOUS
COORD	COORDINATE
DEG	DEGREES
DIA	DIAMETER
DWLS	DOWELS
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWFB	EACH WAY, EACH FACE
EXT	EACH WAY, TOP AND BOTTOM
FD	EXTERIOR
FF	FLOOR DRAIN
FFE	FINISHED FLOOR
FS	FINISHED FLOOR ELEVATION
FTG	FOOTING
FV	FIELD VERIFY
FY	STEEL YIELD STRENGTH
GA	GAUGE
HORIZ	HORIZONTAL
HS	HEADED STUD
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
K	KIPS (KILO-POUNDS)
KD	KILN-DRYED
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
NO	NUMBER
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OPP	OPPOSITE
OSB	ORIENTED STRAN BOARD
P/T	POST-TENSIONED
PEMB	PRE-ENGINEERED METAL BUILDING
PL	PLATE
PCF	POUNDS PER CUBIC FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
RTU	ROOF TOP UNIT
SCHED	SCHEDULE
SIM	SIMILAR
SJ	(SAWN) CONTROL JOINT
STD	STANDARD
STIFF	STIFFENER
T/	TOP OF
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TCE	TOP CHORD EXTENSION
TEMP	TEMPERATURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WWF	WELDED WIRE FABRIC



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NO.	DATE	ISSUED FOR BID	DESCRIPTION OF REVISION OR ISSUE	BY	APP'D
0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
GENERAL NOTES

DESIGNED BY	ECI
DRAWN BY	ECI
CHECKED BY	ECI
APPROVED BY	ECI

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	REV
S0.01	
83 OF 114	

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File name: S:\Share\NWA Projects\15N059 Welcome Centers\Change B - Red River\ECI Drawings\S0.02.dwg
 Date: September 22, 2015 - 12:15pm
 User: Eric Struggins

SOILS SPECIAL INSPECTION					
VERIFICATION AND INSPECTION	INSPECTION				
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		SCOPE
			CONTINUOUS	PERIODIC	
BEARING CAPACITY	1705.6; TABLE 1705.6			X	VERIFY THAT MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
EXCAVATION	1705.6; TABLE 1705.6			X	VERIFY THAT EXCAVATION IS EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
COMPACTED SELECT FILL	1705.6; TABLE 1705.6			X	PERFORM CLASSIFICATION AND TESTING OF COMPACTED SELECT FILL MATERIALS.
PLACEMENT AND COMPACTION OF COMPACTED SELECT FILL	1705.6; TABLE 1705.6		X		VERIFY THE USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED SELECT FILL.
SUBGRADE PREPARATION	1705.6; TABLE 1705.6			X	VERIFY THE SUBGRADE HAS BEEN PREPARED PROPERLY PRIOR TO THE PLACEMENT OF COMPACTED SELECT FILL.

1 SOILS SPECIAL INSPECTION SCHEDULE
 SCALE: NTS

CAST-IN-PLACE CONCRETE SPECIAL INSPECTION					
VERIFICATION AND INSPECTION	INSPECTION				
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		SCOPE
			CONTINUOUS	PERIODIC	
REINFORCING STEEL	TABLE 1705.3	ACI 318: 1.3.2.c, 3.5, 7.1-7.7		X	INSPECT SIZE, SPACING, POSITION, AND GRADE OF REINFORCING STEEL. VERIFY THAT REINFORCING BARS ARE FREE FROM OIL OR OTHER DELETERIOUS MATERIALS. VERIFY THAT BARS ARE ADEQUATELY TIED AND SUPPORTED ON CHAIRS OR BOLSTERS. MEASURE SPACING BEFORE EVERY POST.
ANCHOR BOLTS		ACI 318: 1.3.2.c	X		VISUALLY INSPECT SIZE, POSITIONING, AND EMBEDMENT OF ANCHORS INSTALLED PRIOR TO CONCRETE PLACEMENT. VISUALLY INSPECT CONCRETE PLACEMENT AND CONSOLIDATION AROUND ANCHORS.
CONCRETE DESIGN MIX VERIFICATION	1904.2; TABLE 1705.3	ACI 318: CHAPTER 4, 5.2-5.4		X	REVIEW CONCRETE BATCH TICKETS AND VERIFY COMPLIANCE WITH APPROVED MIX DESIGN. VERIFY THAT WATER ADDED AT THE SITE DOES NOT EXCEED THAT ALLOWED BY THE APPROVED MIX DESIGN. OBTAIN COPY OF ALL TICKETS.
QUALITY OF STANDARDS OF MATERIALS	1705.3.1	ACI 318: CHAPTER 3		X	WHERE SUFFICIENT DATA OR DOCUMENTATION IS NOT PROVIDED TO SHOW CONFORMANCE TO QUALITY STANDARDS FOR MATERIAL IN CHAPTER 3 OF ACI 318, VERIFY APPROPRIATE TESTING HAS BEEN DONE.
CONCRETE SAMPLING AND TESTING	TABLE 1705.3	ACI 318: 1.3.2.d, 5.6, 5.8; ASTM C31; ASTM C172	X		TEST SLUMP, AIR CONTENT, AND TEMPERATURE AT TIME THAT SPECIMENS ARE TAKEN FOR CONCRETE STRENGTH TESTS.
CONCRETE PLACEMENT	TABLE 1705.3	ACI 318: 5.9, 5.10	X		INSPECT PLACEMENT OF CONCRETE. VERIFY THAT CONCRETE CONVEYANCE AND DEPOSITING AVOIDS SEGREGATION AND CONTAMINATION. VERIFY THAT CONCRETE IS PROPERLY CONSOLIDATED.
CONCRETE CURING AND TEMPERATURE PROTECTION TECHNIQUES	TABLE 1705.3	ACI 318: 5.11-5.13; ACI 305; ACI 306		X	INSPECT CURING TECHNIQUES, COLD WEATHER PROTECTION, AND HOT WEATHER PROTECTION.
FORMWORK	TABLE 1705.3	ACI 318: 6.1		X	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.

2 CAST-IN-PLACE CONCRETE SPECIAL INSPECTION SCHEDULE
 SCALE: NTS

MASONRY LEVEL B SPECIAL INSPECTION						
VERIFICATION AND INSPECTION	INSPECTION					
	REFERENCE FOR CRITERIA		FREQUENCY		SCOPE	
	TMS 402/ ACI 530/ASCE 5	TMS 602/ ACI 530.1/ASCE 6	CONTINUOUS	PERIODIC		
COMPLIANCE WITH REQUIRED INSPECTIONS AND SUBMITTALS		ARTICLE 1.5		X	VERIFY THE COMPLIANCE WITH ALL THE REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS.	
AS MASONRY CONSTRUCTION BEGINS	PROPORTIONS OF SITE-PREPARED MORTAR		ARTICLE 2.1, 2.6A		X	VERIFY THE PROPORTIONS OF SITE-PREPARED MORTAR FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
	PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		ARTICLE 3.3B		X	VERIFY THE PLACEMENT OF MASONRY UNITS AND THE CONSTRUCTION OF MORTAR JOINTS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
	REINFORCEMENT, CONNECTORS, AND ANCHORAGES		ARTICLE 3.4, 3.6A		X	VERIFY THE LOCATION OF REINFORCEMENT, CONNECTORS, ANCHORS, WALL TIES, AND VENEER ANCHORS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
PRIOR TO GROUTING	GROUT SPACE		ARTICLE 3.2D, 3.2F		X	VERIFY THAT THE GROUT SPACE IS FREE OF MORTAR DROPPING, DEBRIS, LOOSE AGGREGATES, AND ANY MATERIAL DELETERIOUS TO MASONRY GROUT. VERIFY CLEANOUTS ARE PROVIDED ACCORDING TO ARTICLE 3.2F.
	GRADE, TYPE, AND SIZE OF REINFORCEMENT, ANCHOR BOLTS, AND ANCHORAGE	SECTION 1.6	ARTICLE 2.4, 3.4		X	VERIFY THE GRADE, TYPE, AND SIZE OF REINFORCEMENT, JOINT REINFORCEMENT, ANCHOR BOLTS, ANCHORS, WALL TIES, AND VENEER ANCHORS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
	PLACEMENT OF REINFORCEMENT, ANCHOR BOLTS, AND ANCHORAGE	SECTION 1.6	ARTICLE 3.2E, 3.4, 3.6A		X	VERIFY THAT REINFORCEMENT, JOINT REINFORCEMENT, ANCHOR BOLTS, ANCHORS, WALL TIES, AND VENEER ANCHORS HAVE BEEN PLACED ACCORDING TO THE CONSTRUCTION DOCUMENTS.
	PROPORTIONS OF SITE-PREPARED GROUT		ARTICLE 2.6B		X	VERIFY THE PROPORTIONS OF SITE-PREPARED GROUT FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
DURING CONSTRUCTION	CONSTRUCTION OF MORTAR JOINTS		ARTICLE 3.3B		X	VERIFY THE CONSTRUCTION OF MORTAR JOINTS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
	SIZE AND LOCATION OF STRUCTURAL ELEMENTS		ARTICLE 3.3F			VERIFY THE LOCATION AND ALIGNMENT TOLERANCES OF STRUCTURAL ELEMENTS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
	TYPE, SIZE, AND LOCATION OF ANCHORS	SECTION 1.16.4.3, 1.17.1			X	VERIFY THE TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.
	COLD WEATHER PROTECTION OF MASONRY		ARTICLE 1.8C		X	INSPECT PROCEDURES FOR PROTECTION DURING COLD WEATHER (AMBIENT AIR TEMPERATURES BELOW 40 DEGREES FAHRENHEIT).
	HOT WEATHER PROTECTION OF MASONRY		ARTICLE 1.8D		X	INSPECT PROCEDURES FOR PROTECTION DURING HOT WEATHER (AMBIENT AIR TEMPERATURES ABOVE 90 DEGREES FAHRENHEIT).
	GROUT PLACEMENT		ARTICLE 3.5	X		VERIFY GROUT PLACEMENT TO ENSURE COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
	WELDING OF REINFORCEMENT	SECTION 2.1.7.2, 3.3.3(c), 8.3.3.4(b)			X	VERIFY WELDING OF REINFORCEMENT FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
OBSERVATION OF THE PREPARATION OF REQUIRED GROUT SPECIMENS		ARTICLE 1.4B.2.b.3		X	VERIFY THE PREPARATION OF GROUT SPECIMENS ARE IN ACCORDANCE WITH ASTM C1019.	
OBSERVATION OF THE PREPARATION OF REQUIRED MORTAR SPECIMENS				X	VERIFY THE PREPARATION OF MORTAR SPECIMENS ARE IN ACCORDANCE WITH ASTM C780.	
OBSERVATION OF THE PREPARATION OF REQUIRED PRISM SPECIMENS		ARTICLE 1.4B.3, 1.4B.4		X	VERIFY THE PREPARATION OF PRISM SPECIMENS ARE IN ACCORDANCE WITH ASTM C1532 AND C1314.	

3 MASONRY LEVEL B SPECIAL INSPECTION SCHEDULE
 SCALE: NTS

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0	9/25/2015				

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SPECIAL INSPECTION SCHEDULES

DESIGNED BY	ECI
DRAWN BY	ECI
CHECKED BY	ECI
APPROVED BY	ECI
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	S0.02
REV	84 OF 114

25 Sept 2015

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File name: S:\Share\NWA Projects\15N059 Welcome Centers\Change B - Red River\ECI Drawings\S0.03.dwg
 Date: September 22, 2015 - 12:15pm
 User: Eric Sroogins

WOOD SPECIAL INSPECTION					
VERIFICATION AND INSPECTION	INSPECTION				
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		SCOPE
			CONTINUOUS	PERIODIC	
WOOD SHOP FABRICATION AND FIELD ERECTION					THE LISTED VERIFICATION AND INSPECTION ITEMS APPLY TO BOTH SHOP FABRICATION AND FIELD ERECTION.
SPECIFIED SIZE, GRADE, AND TYPE OF WOOD MEMBERS				X	VERIFY THE CONDITION, SIZE, LOCATION, SPACING, GRADE, AND TYPE OF SAWN LUMBER, GLUE LAMINATED LUMBER, LAMINATED VENEER LUMBER, AND PLYWOOD PANEL MEMBERS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
TYPE, SIZE, AND SPACING OF ANCHORS AND CONNECTORS				X	VERIFY THE TYPE, SIZE, SPACING, AND LOCATION OF FRAMING ANCHORS, HANGERS, NAILS, SCREWS, BOLTS, ETC FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
BRIDGING, BLOCKING, AND BRACING				X	VERIFY THAT STRUCTURAL BRIDGING, BLOCKING, AND BRACING IS IN COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
CUTTING AND NOTCHING OF WOOD MEMBERS				X	VERIFY THAT CUTTING AND NOTCHING OF WOOD MEMBERS IS IN COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
INSPECTION OF BOLTED CONNECTIONS		NDS: SECTION A.6		X	VERIFY THAT THE CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED. VISUALLY INSPECT THAT THE WOOD UNDER THE WASHERS HAS NOT BEEN CRUSHED.
CARE OF MATERIAL		NDS: SECTION A.1		X	VERIFY THAT MATERIALS ARE HANDLED AND COVERED AS TO PREVENT MARRING AND MOISTURE ABSORPTION FROM SNOW OR RAIN.
HIGH-LOAD DIAPHRAGMS	1705.5.1			X	VERIFICATION OF WOOD STRUCTURAL PANEL SHEATHING IS OF THE GRADE AND THICKNESS SHOWN ON THE CONSTRUCTION DRAWINGS. VERIFICATION OF THE NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES, THE NAIL DIAMETER AND LENGTH, THE NUMBER OF FASTENERS LINES AND THAT THE SPACING BETWEEN FASTENERS IN EACH LINE AND AT THE EDGE OF THE MARGINS AGREES WITH THE CONSTRUCTION DRAWINGS.
FASTENING OF COMPONENTS WITHIN LATERAL-FORCE-RESISTING SYSTEM	1705.10.1; 1705.11.2			X	VERIFY NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE LATERAL-FORCE-RESISTING SYSTEM INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGM, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLD DOWN ANCHORS ARE IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

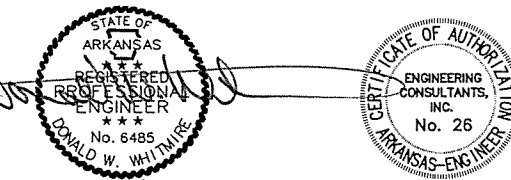
1 WOOD SPECIAL INSPECTION SCHEDULE
 SCALE: NTS

POST-INSTALLED ANCHORS SPECIAL INSPECTION					
VERIFICATION AND INSPECTION	INSPECTION				
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		SCOPE
			CONTINUOUS	PERIODIC	
ADHESIVE ANCHORS	1703.4; 1705.1.1.3	ICC EVALUATION REPORT		X	PRIOR TO INSTALLATION OF ADHESIVE ANCHORS, VERIFY PROPOSED ANCHORS CONFORM TO THE CONSTRUCTION DOCUMENTS. DURING INSTALLATION OF ADHESIVE ANCHORS; VERIFY ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS; HOLE DIMENSIONS; COMPLIANCE WITH DRILL BIT REQUIREMENTS; BASE MATERIAL TYPE; BASE MATERIAL COMPRESSIVE STRENGTH; BASE MATERIAL MEMBER THICKNESS; CLEANLINESS OF THE HOLE AND ANCHOR; ADHESIVE EXPIRATION DATE; ANCHOR EMBEDMENT; TIGHTENING TORQUE; AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.

2 POST-INSTALLED ANCHORS SPECIAL INSPECTION SCHEDULE
 SCALE: NTS

STRUCTURAL STEEL SPECIAL INSPECTION					
VERIFICATION AND INSPECTION	INSPECTION				
	IBC 2012 REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY		SCOPE
			CONTINUOUS	PERIODIC	
STRUCTURAL STEEL FABRICATION AND ERECTION					THE LISTED VERIFICATION AND INSPECTION ITEMS APPLY TO BOTH SHOP FABRICATION AND FIELD ERECTION.
MATERIAL VERIFICATION OF STRUCTURAL STEEL	1705.2; 2203.1	ASTM A6 OR ASTM A568; AISC 360: SECTION A3.1a		X	REVIEW IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. REVIEW MANUFACTURER'S CERTIFIED MILL TEST REPORTS.
MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS		APPLICABLE ASTM MATERIAL STANDARDS; AISC 360: SECTION A3.3, N5.6		X	REVIEW IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.
STORAGE OF BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		AISC 360: SECTION N5.6		X	VERIFY PROPER STORAGE IS PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.
INSPECTION OF HIGH-STRENGTH BOLTING: BEARING-TYPE CONNECTIONS		AISC 360: SECTION M2.5, N5.6		X	VERIFY THAT THE CONNECTED MATERIALS HAVE BEEN DRAWN TOGETHER AND PROPERLY SNUGGED. VISUALLY INSPECT ALL CONNECTIONS.
DOCUMENTATION OF BOLTED CONNECTIONS		AISC 360: SECTION N5.6	X		DOCUMENT ACCEPTANCE OR REJECTION OF EACH BOLTED CONNECTION.
WELDING PROCEDURES		AISC 360: SECTION A3.5, N5.4; AWS D1.1: SECTION 6.3		X	VERIFY THAT ALL WELDING OPERATIONS ARE PERFORMED IN ACCORDANCE WITH THE WELDING PROCEDURE SPECIFICATION.
WELDER QUALIFICATIONS		AISC 360: SECTION N5.4; AWS D1.1: SECTION 6.4		X	REVIEW WELDER QUALIFICATION CERTIFICATES.
MATERIAL VERIFICATION OF WELD FILLER MATERIALS		AISC 360: SECTION A3.5, N5.4; AWS D1.1: SECTION 6.2		X	REVIEW IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS IN THE APPROVED CONSTRUCTION DOCUMENTS. REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.
INSPECTIONS PRIOR TO WELDING	FIT UP OF WELDS ACCESS HOLES	AISC 360: SECTION N5.4; AWS D1.1: CHAPTERS 5 AND 6		X	VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING
				X	VERIFY CONFIGURATION AND FINISH OF ACCESS HOLES.
INSPECTIONS DURING WELDING	CRACKED TACK WELDS	AISC 360: SECTION N5.4; AWS D1.1: CHAPTERS 5 AND 6		X	VERIFY WELDING DOES NOT OCCUR OVER CRACKED TACK WELDS.
	ENVIRONMENTAL CONDITIONS			X	VERIFY WIND SPEED IS WITHIN LIMITS, AMBIENT TEMPERATURE, AND PRECIPITATION.
	WELDING TECHNIQUES			X	VERIFY INTERPASS AND FINAL CLEANING, EACH PASS IS WITHIN PROFILE LIMITATIONS, AND EACH PASS MEETS QUALITY REQUIREMENTS.
	CONTROL AND HANDLING OF WELDING CONSUMABLES			X	VERIFY PACKAGING AND EXPOSURE CONTROL OF WELDING CONSUMABLES.
INSPECTIONS AFTER WELDING	WELDS CLEANED	AISC 360: SECTION N5.4; AWS D1.1: CHAPTERS 5 AND 6		X	VERIFY THE WELDS HAVE BEEN CLEANED IN ACCORDANCE WITH AWS D1.1 SECTION 5.30.
	SIZE, LENGTH, AND LOCATION OF WELDS		X	VERIFY THE SIZE, LENGTH, AND LOCATION OF WELDS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	
	VISUAL INSPECTION OF WELDS		X	VISUALLY INSPECT ALL WELDS PER AWS D1.1 TABLE 6.1.	
	ARC STRIKES		X	VERIFY THAT CRACKS AND BLEMISHES CAUSED BY ARC STRIKES OUTSIDE THE AREA OF PERMANENT WELDS HAVE BEEN GROUND TO A SMOOTH CONTOUR AND CHECKED TO ENSURE SOUNDNESS.	
	k-AREA		X	VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3" OF THE WELD.	
	REMOVAL OF BACKING AND WELD TABS		X	VERIFY THE REMOVAL OF BACKING AND WELD TABS	
COMPLETE AND PARTIAL PENETRATION GROOVE WELDS FOR STRUCTURES IN RISK CATEGORY II	REPAIR ACTIVITIES	AISC 360: SECTION N5.5 ASTM E164; AWS D1.1: CHAPTER 6		X	USE ULTRASONIC TESTING ON 10 PERCENT OF GROOVE WELDS. INCREASE RATE OF TESTING PER AISC 360: SECTION N5.5f IF GREATER THAN 5 PERCENT OF WELDS TESTED HAVE UNACCEPTABLE DEFECTS.
				X	TEST ANY WELD THAT APPEARS QUESTIONABLE.
SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 3/8"		AWS D1.1: SECTION 6.14		X	TEST ANY WELD THAT APPEARS QUESTIONABLE.
DOCUMENTATION OF WELDED JOINT OR MEMBER		AISC 360: SECTION N5.4	X		DOCUMENT ACCEPTANCE OR REJECTION OF EACH WELDED JOINT OR MEMBER.
INSPECTION OF STEEL FRAME JOINT DETAILS		AISC 360: SECTION N5.7		X	VERIFY DETAILS SUCH AS BRACING AND STIFFENING, MEMBER LOCATIONS, AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

3 STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE
 SCALE: NTS



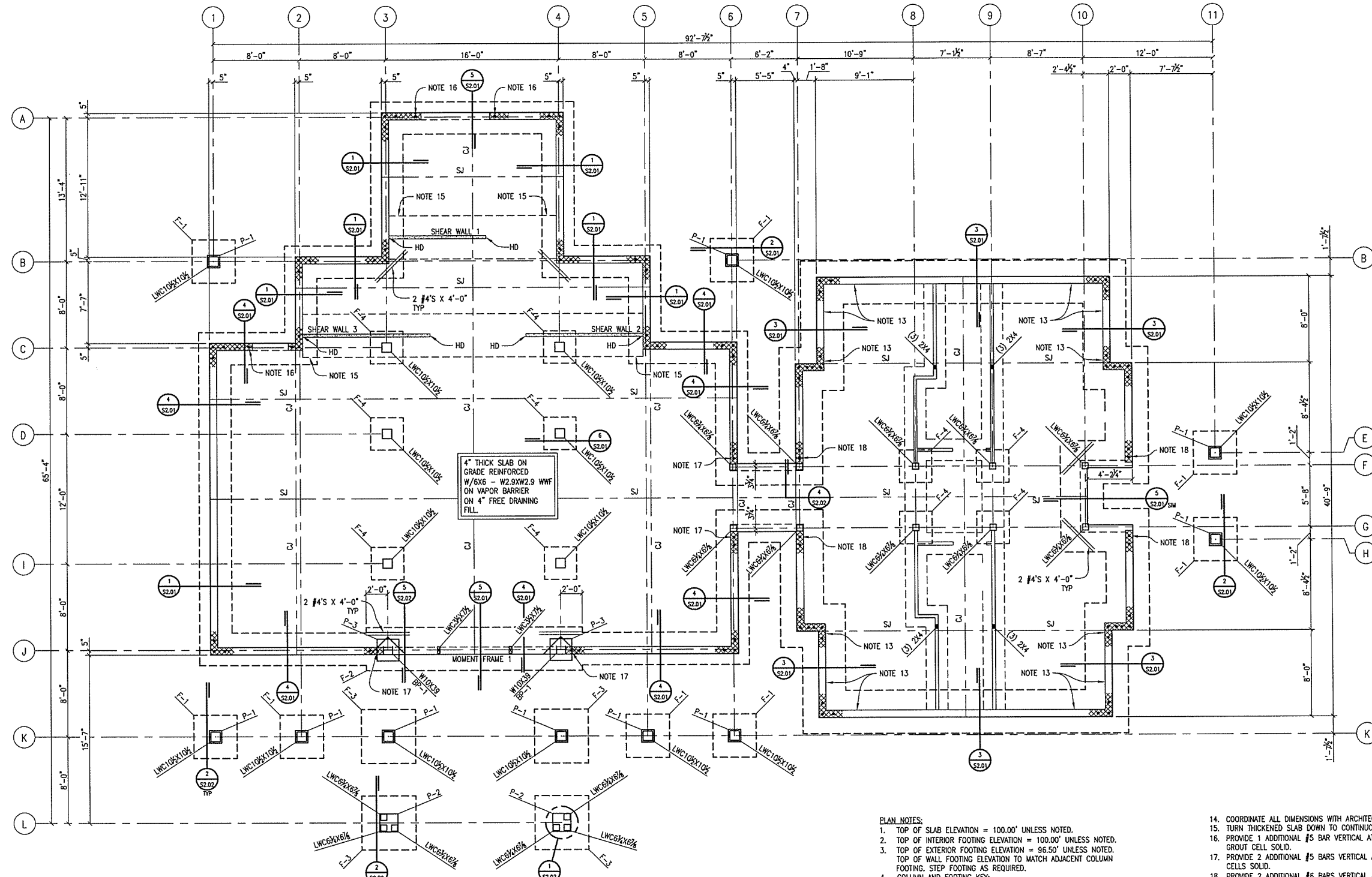
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 SPECIAL INSPECTION SCHEDULES

DESIGNED BY ECI
 DRAWN BY ECI
 CHECKED BY ECI
 APPROVED BY ECI

DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER 313841
 SHEET S0.03 REV
 85 OF 114

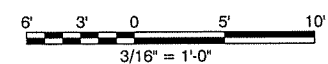


FOUNDATION PLAN
 SCALE: 3/16" = 1'-0"
 PLAN NORTH

- PLAN NOTES:**
- TOP OF SLAB ELEVATION = 100.00' UNLESS NOTED.
 - TOP OF INTERIOR FOOTING ELEVATION = 100.00' UNLESS NOTED.
 - TOP OF EXTERIOR FOOTING ELEVATION = 96.50' UNLESS NOTED. TOP OF WALL FOOTING ELEVATION TO MATCH ADJACENT COLUMN FOOTING. STEP FOOTING AS REQUIRED.
 - COLUMN AND FOOTING KEY:
-
- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - TURN THICKENED SLAB DOWN TO CONTINUOUS EXTERIOR FOOTING.
 - PROVIDE 1 ADDITIONAL #5 BAR VERTICAL AT SIDE OF OPENING. GROUT CELL SOLID.
 - PROVIDE 2 ADDITIONAL #5 BARS VERTICAL AT END OF WALL. GROUT CELLS SOLID.
 - PROVIDE 2 ADDITIONAL #6 BARS VERTICAL AT END OF WALL. GROUT CELLS SOLID.
 - SEE S2.03 FOR SHEAR WALL SCHEDULE.
- ALL FOOTINGS SHALL BE CENTERED ON COLUMNS UNLESS NOTED.
 - SEE S0.00 AND S0.01 FOR GENERAL NOTES.
 - SEE S0.02 AND S0.03 FOR SPECIAL INSPECTION REQUIREMENTS.
 - SEE S2.00 FOR TYPICAL FOUNDATION DETAILS.
 - CJ AND SJ REPRESENTS CONSTRUCTION JOINT AND CONTROL JOINT IN SLAB ON GRADE. SEE DETAILS 5/S2.00 AND 7/S2.00.
 - MOMENT FRAMES DESIGNATED ON PLAN ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE S5.10 FOR ELEVATIONS.
 - CONCRETE MASONRY UNIT (CMU) WALLS ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
 - INTERIOR WALLS TO BE 2X4 WOOD STUDS AT 16" ON CENTER.
 - COORDINATE NOTCHES IN MASONRY WALL WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 6485
 DONALD W. WHITMIRE
 25 SEPT 2015

CERTIFICATE OF AUTHORIZATION
 ENGINEERING CONSULTANTS, INC.
 No. 26
 ARKANSAS-ENGINEER



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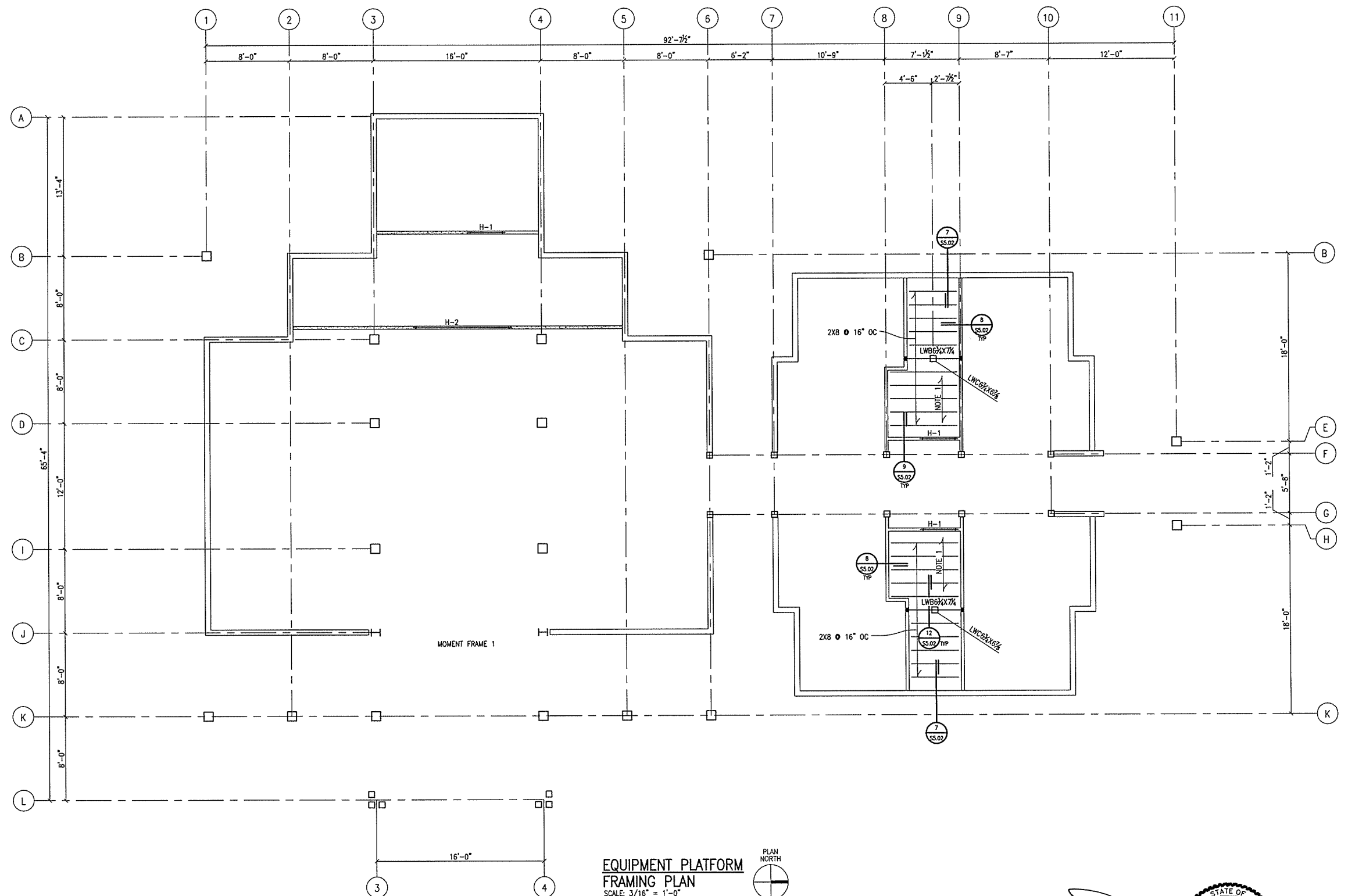
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
FOUNDATION PLAN

DESIGNED BY	ECI
DRAWN BY	ECI
CHECKED BY	ECI
APPROVED BY	ECI

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
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86 OF 114	

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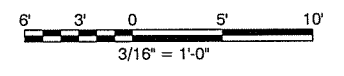


EQUIPMENT PLATFORM FRAMING PLAN
 SCALE: 3/16" = 1'-0"

- PLAN NOTES:**
- FLOOR DECK TO BE 23/32" STRUD-I-FLOOR PLYWOOD SHEATHING.
 - STRUCTURAL FRAMING KEY:
 LAMINATED WOOD BEAM SIZE
 COLUMN LWB 6x11
 - SEE S0.00 AND S0.01 FOR GENERAL NOTES.
 - COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - TOP OF FLOOR DECK ELEVATION = 109'-3" UNLESS OTHERWISE NOTED.

- SEE S5.02 FOR HEADER SCHEDULE.
- MOMENT FRAMES DESIGNATED ON PLAN ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. SEE S5.10 FOR ELEVATIONS.
- SEE S0.02 AND S0.03 FOR SPECIAL INSPECTION REQUIREMENTS.

Professional Engineer Seal for Donald W. Whitmore, State of Arkansas, No. 6485. Includes a signature and the date '25 SEPT 2015'. Also features a 'CERTIFICATE OF AUTHORITY' seal for Engineering Consultants, Inc. No. 26, Arkansas-Engineers, No. 1171.



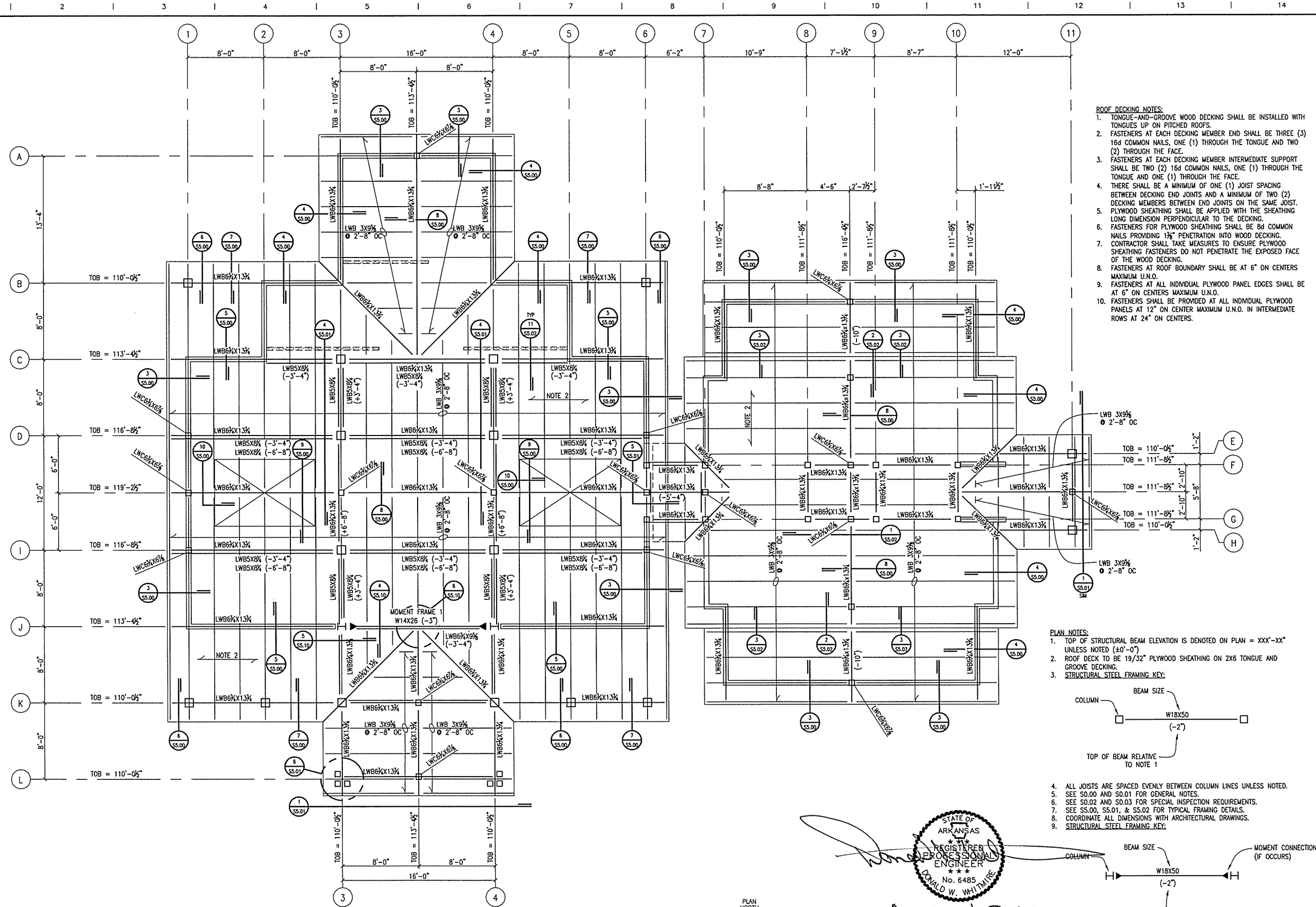
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
EQUIPMENT PLATFORM FRAMING PLAN

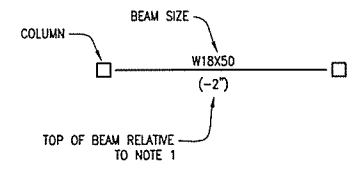
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LEIDOS PROJECT NUMBER	313841
SHEET	S1.01
REV	87 OF 114

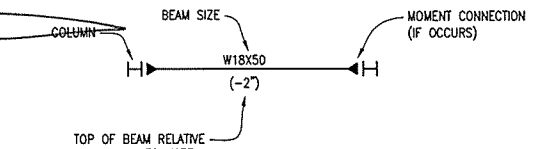


- ROOF DECKING NOTES:**
1. TONGUE-AND-GROOVE WOOD DECKING SHALL BE INSTALLED WITH TONGUES UP ON PITCHED ROOFS.
 2. FASTENERS AT EACH DECKING MEMBER END SHALL BE THREE (3) 16d COMMON NAILS, ONE (1) THROUGH THE TONGUE AND TWO (2) THROUGH THE FACE.
 3. FASTENERS AT EACH DECKING MEMBER INTERMEDIATE SUPPORT SHALL BE TWO (2) 16d COMMON NAILS, ONE (1) THROUGH THE TONGUE AND ONE (1) THROUGH THE FACE.
 4. THERE SHALL BE A MINIMUM OF ONE (1) JOIST SPACING BETWEEN DECKING END JOINTS AND A MINIMUM OF TWO (2) DECKING MEMBERS BETWEEN END JOINTS ON THE SAME JOIST.
 5. PLYWOOD SHEATHING SHALL BE APPLIED WITH THE SHEATHING LONG DIMENSION PERPENDICULAR TO THE DECKING.
 6. FASTENERS FOR PLYWOOD SHEATHING SHALL BE 8d COMMON NAILS PROVIDING 1/4" PENETRATION INTO WOOD DECKING.
 7. CONTRACTOR SHALL TAKE MEASURES TO ENSURE PLYWOOD SHEATHING FASTENERS DO NOT PENETRATE THE EXPOSED FACE OF THE WOOD DECKING.
 8. FASTENERS AT ROOF BOUNDARY SHALL BE AT 6" ON CENTERS MAXIMUM U.N.O.
 9. FASTENERS AT ALL INDIVIDUAL PLYWOOD PANEL EDGES SHALL BE AT 6" ON CENTERS MAXIMUM U.N.O.
 10. FASTENERS SHALL BE PROVIDED AT ALL INDIVIDUAL PLYWOOD PANELS AT 12" ON CENTER MAXIMUM U.N.O. IN INTERMEDIATE ROWS AT 24" ON CENTERS.

- PLAN NOTES:**
1. TOP OF STRUCTURAL BEAM ELEVATION IS DENOTED ON PLAN = XXX'-XX" UNLESS NOTED (±0'-0")
 2. ROOF DECK TO BE 19/32" PLYWOOD SHEATHING ON 2X6 TONGUE AND GROOVE DECKING.
 3. STRUCTURAL STEEL FRAMING KEY:



4. ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
5. SEE S0.00 AND S0.01 FOR GENERAL NOTES.
6. SEE S0.02 AND S0.03 FOR SPECIAL INSPECTION REQUIREMENTS.
7. SEE S5.00, S5.01, & S5.02 FOR TYPICAL FRAMING DETAILS.
8. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
9. STRUCTURAL STEEL FRAMING KEY:



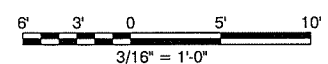
10. MOMENT FRAMES DESIGNATED ON PLAN ARE PART OF THE LATERAL RESISTING SYSTEM. SEE S5.10 FOR ELEVATIONS.

ROOF FRAMING PLAN

SCALE: 3/16" = 1'-0"



Handwritten signature
 25 sept 2015



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
ROOF FRAMING PLAN

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SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	S1.02
REV	88 OF 114

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 TYPICAL FOUNDATION DETAILS

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LEIDOS PROJECT NUMBER	313841
SHEET	S2.00
REV	
89 OF 114	

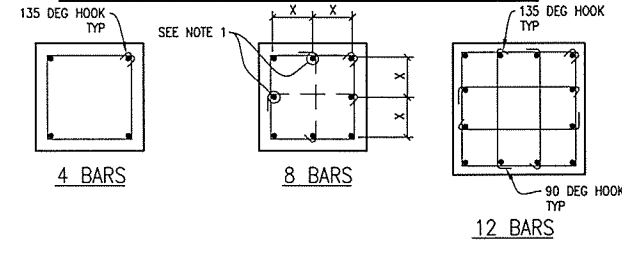
MARK	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F-1	4'-0"	4'-0"	2'-0"	4 #5'S EACH WAY	TOP & BOTTOM
F-2	4'-0"	SEE PLAN	2'-0"	5 #5'S LONG #5'S @ 12" OC SHORT	TOP & BOTTOM
F-3	5'-0"	5'-0"	2'-0"	5 #5'S EACH WAY	TOP & BOTTOM
F-4	3'-0"	3'-0"	4'-0"	3 #5'S EACH WAY	3 MATS

NOTES:
 1. FOOTINGS WITH 3 MATS SHALL HAVE A MAT TOP, MIDDLE, AND BOTTOM.

1 COLUMN FOOTING SCHEDULE

SCALE: NTS

MARK	DIMENSIONS		VERTICAL REINFORCEMENT	TIES & SPACING
	WIDTH	LENGTH		
P-1	1'-2"	1'-2"	4 #5'S	#3'S @ 6" OC
P-2	1'-8"	1'-8"	8 #5'S	#3'S @ 6" OC
P-3	2'-0"	2'-0"	12 #5'S	#3'S @ 6" OC



NOTES:
 1. THESE BARS MUST BE TIED AS SHOWN BY DASHED LINES WHEN X DISTANCE IS GREATER THAN 6".
 2. MINIMUM CONCRETE COVER IS 1 1/2" TO TIES.
 3. PROVIDE 135 DEG HOOKS FOR SEISMIC DESIGN CATEGORIES C, D, AND E. ALTERNATE 135 DEG HOOK END OF CROSSTIE.

2 PEDESTAL SCHEDULE

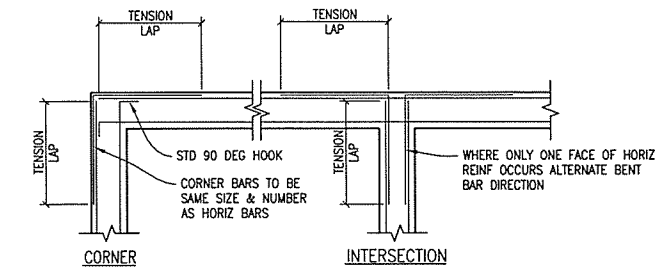
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GRADE 60 BARS	3000		4000		4db
	LESS THAN 4db	4db OR MORE	LESS THAN 4db	4db OR MORE	
#3	3'-6"	2'-4"	3'-0"	2'-0"	1 1/2"
#4	2'-8"	1'-9"	2'-4"	1'-6"	2"
#5	4'-8"	3'-1"	4'-0"	2'-8"	2 1/2"
#6	3'-7"	2'-4"	3'-1"	2'-1"	3"
#7	5'-9"	3'-10"	5'-0"	3'-4"	3 1/2"
#8	4'-5"	3'-0"	3'-10"	2'-7"	4"

NOTES:
 1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
 2. MINIMUM COVER FOR BARS SPACED 4db OR MORE IS TO BE GREATER THAN db. OTHERWISE, USE LENGTH FOR LESS THAN 4db SPACING.

3 CLASS B TENSION LAP SPLICE LENGTH FOR BEAM, SLAB, WALL AND CONCRETE JOIST REINFORCING BARS

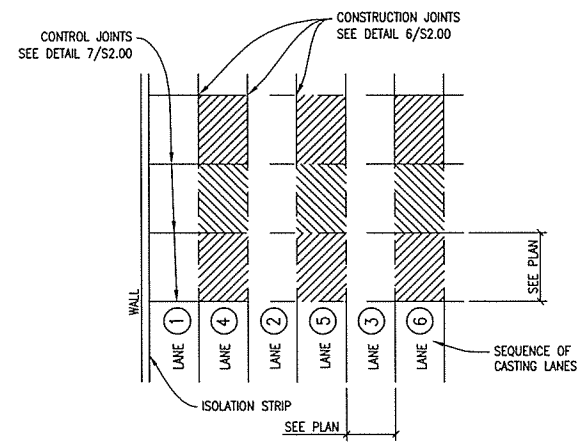
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TYPICAL FOR:
 CONCRETE WALLS
 CONCRETE BEAMS
 CONCRETE FOOTINGS
 THICKENED SLABS
 MASONRY BOND BEAMS

4 TYPICAL CORNER BAR DETAIL

SCALE: NTS



NOTES:
 1. LANES SHALL BE CAST IN SEQUENCE INDICATED.
 2. LANES TO BE DIVIDED BY CONSTRUCTION JOINTS AND SUBDIVIDED BY CONTROL JOINTS AS SHOWN ON PLAN.
 3. IN AREAS WHERE COLUMNS DO NOT OCCUR PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AS SHOWN.
 4. ALLOW 48 HOURS BETWEEN ADJACENT LANE PLACEMENT.

5 SEQUENCE OF PLACING SLAB ON GRADE

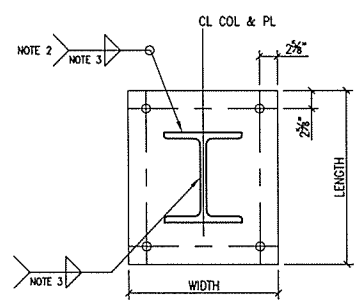
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MARK	BASE PLATE SIZE			ANCHOR BOLT			REMARKS
	WIDTH	LENGTH	THICK	NO	SIZE	*LENGTH	
BP-1	1'-6"	1'-8"	1"	4	1"	1'-4"	

* LENGTH INDICATED IS MINIMUM EMBEDMENT

8 COLUMN BASE PLATE SCHEDULE

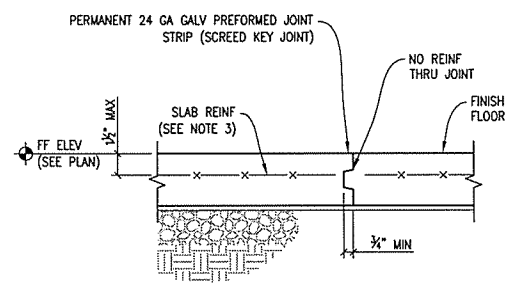
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NOTES:
 1. SEE SCHEDULE FOR PLATE DIMENSIONS & BOLT SIZES.
 2. WELD AS REQUIRED TO DEVELOP FULL MOMENT CAPACITY OF COLUMN.
 3. MINIMUM WELD TO BE 3/8" FILLET.

9 W COLUMN BASE PLATE

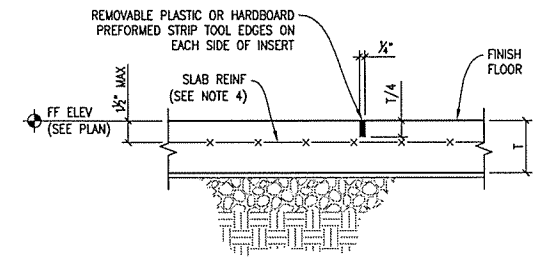
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NOTES:
 1. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.
 2. REFER TO ARCHITECTURAL DETAILS FOR JOINT FILLER WHERE REQUIRED.
 3. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REINF IN POSITION DURING CONCRETE PLACEMENT.

6 SLAB ON GRADE CONSTRUCTION JOINT

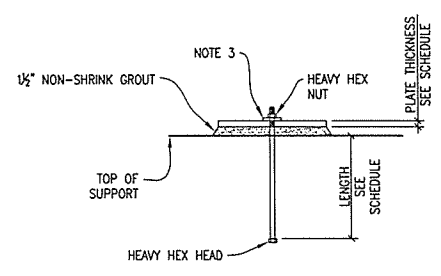
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NOTES:
 1. FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.
 2. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.
 3. SAWCUT JOINTS ARE PERMITTED WITH THE APPROVAL OF THE OWNER'S PROJECT MANAGER ONLY. IF APPROVED, SAWCUT JOINTS USING A "SOFF-CUT" MACHINE OR EQUAL IMMEDIATELY AFTER FINISHING SLAB.
 4. PROVIDE SUPPORT CHAIRS TO HOLD SLAB REINF IN POSITION DURING CONCRETE PLACEMENT.

7 SLAB ON GRADE CONTROL JOINT FOR TYPICAL SLABS

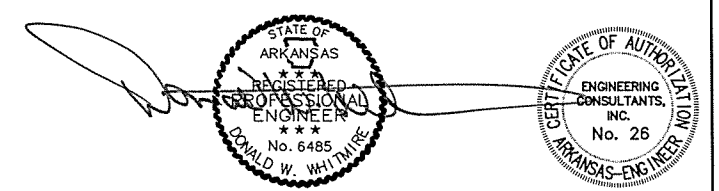
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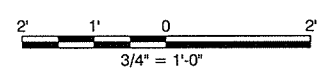
NOTES:
 1. SEE SCHEDULE FOR BOLT SIZE.
 2. LEVEL BASE PLATE WITH SHIM STACKS. LEVELING PLATE MAY BE USED AT CONTRACTORS OPTION WITH ENGINEERS APPROVAL. THE USE OF LEVELING NUTS ARE NOT PERMITTED.
 3. PROVIDE PLATE WASHER AT ALL OVERSIZED HOLES AS SHOWN IN TABLE 2.3 OF AISC DESIGN GUIDE 1, 2ND EDITION. PLATE WASHER TO BE WELDED TO BASE PLATE WITH 1/2" FILLET WELD ALL AROUND.

10 BASE PLATE SETTING DETAIL

SCALE: NTS

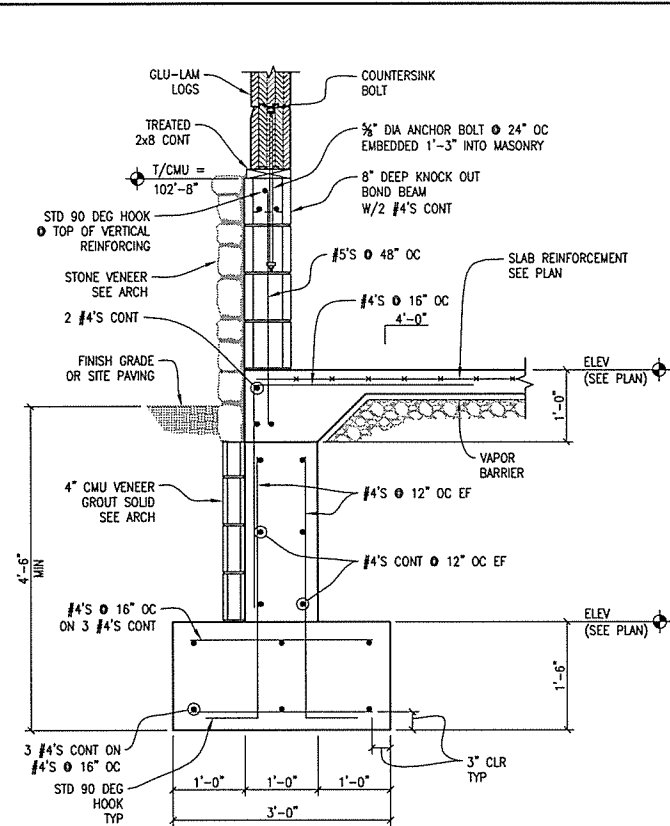


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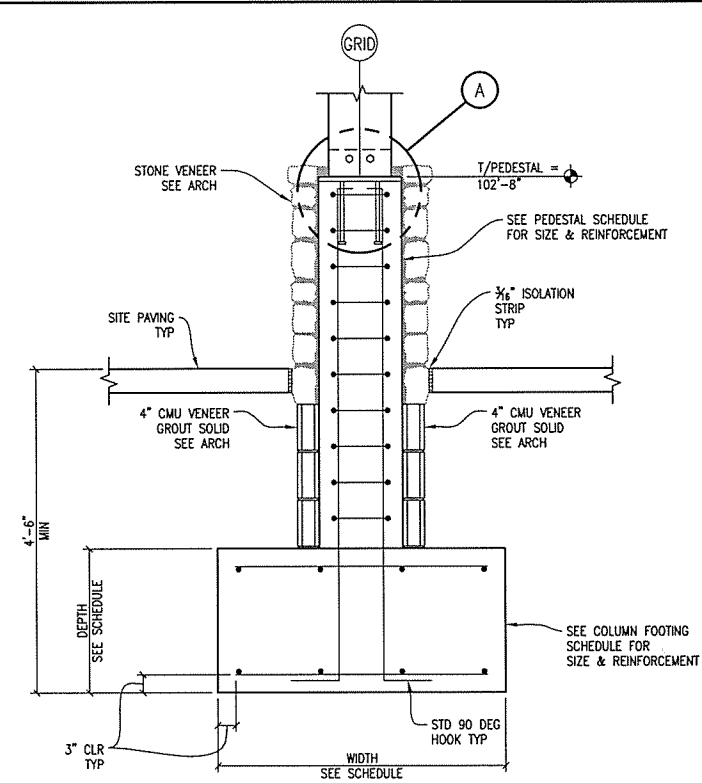


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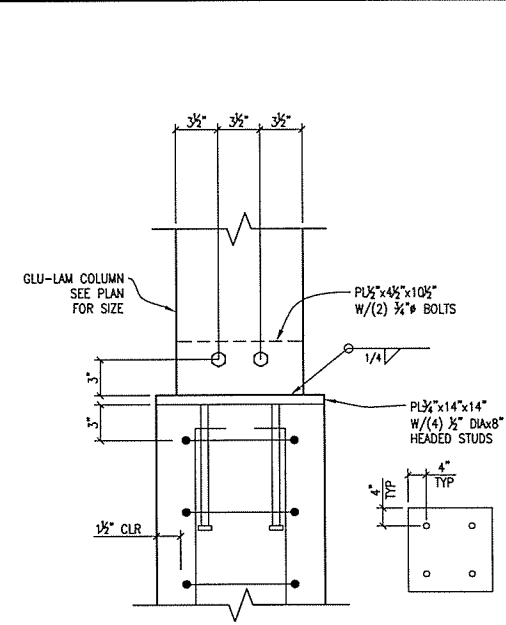
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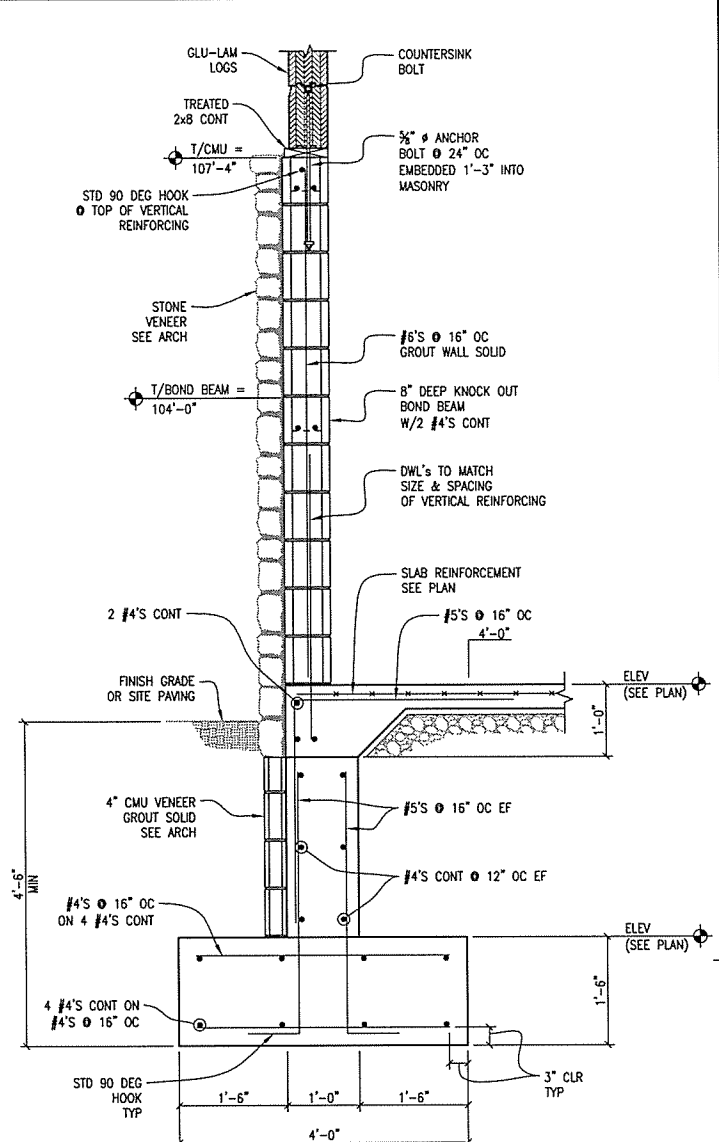
1 EXTERIOR WALL AND FOOTING
 SCALE: 3/4" = 1'-0"



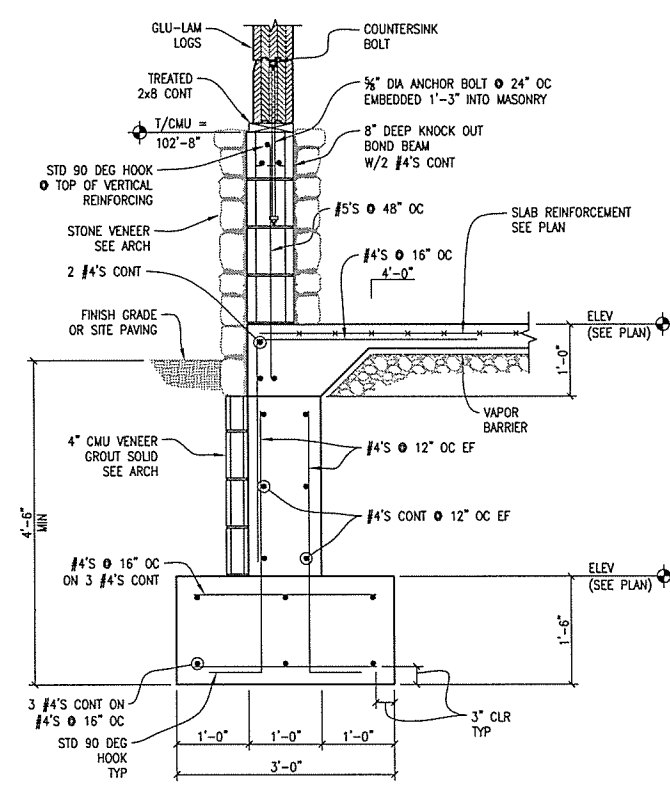
2 COLUMN PEDESTAL DETAIL
 SCALE: 3/4" = 1'-0"



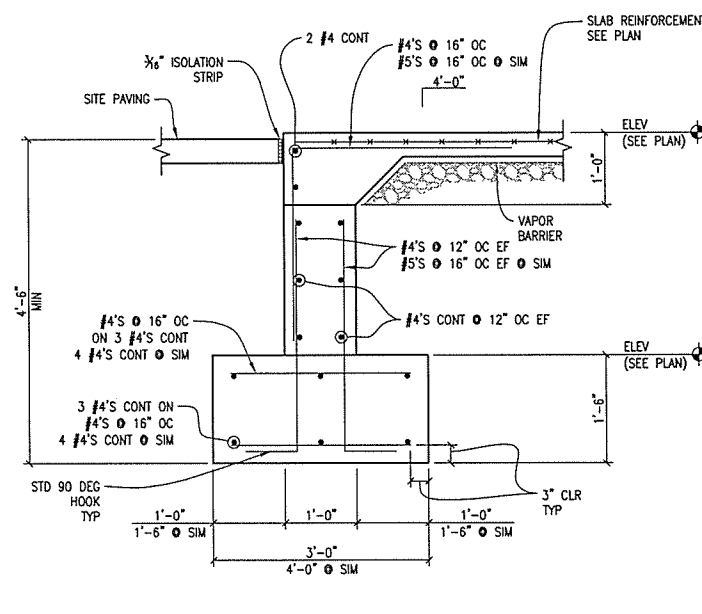
A COLUMN BEARING DETAIL
 SCALE: 1 1/2" = 1'-0"



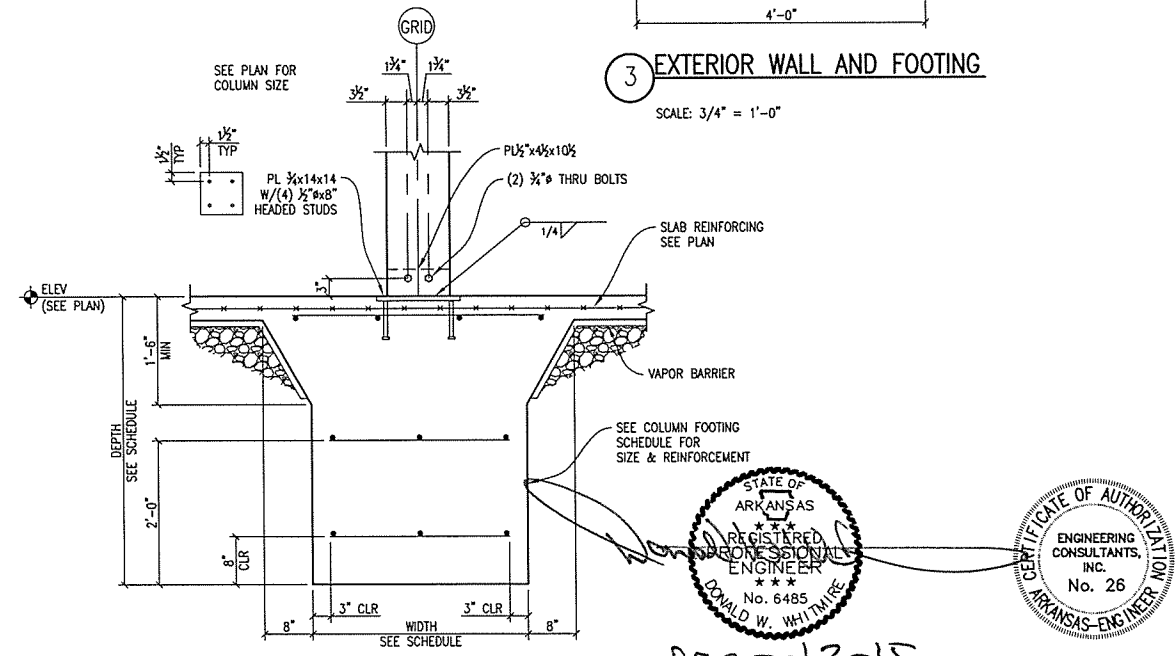
3 EXTERIOR WALL AND FOOTING
 SCALE: 3/4" = 1'-0"



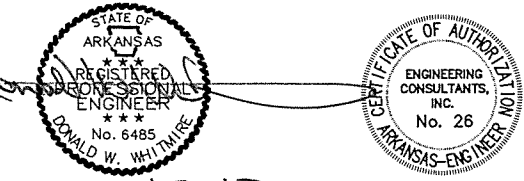
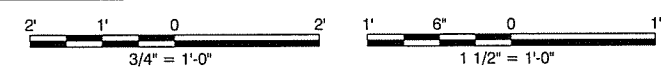
4 EXTERIOR WALL AND FOOTING
 SCALE: 3/4" = 1'-0"



5 SLAB TURN DOWN AT DOOR
 SCALE: 3/4" = 1'-0"



6 INTERIOR COLUMN FOUNDATION
 SCALE: 3/4" = 1'-0"



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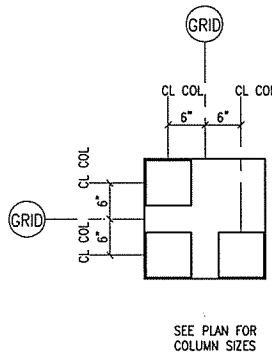
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 FOUNDATION DETAILS

DESIGNED BY ECI
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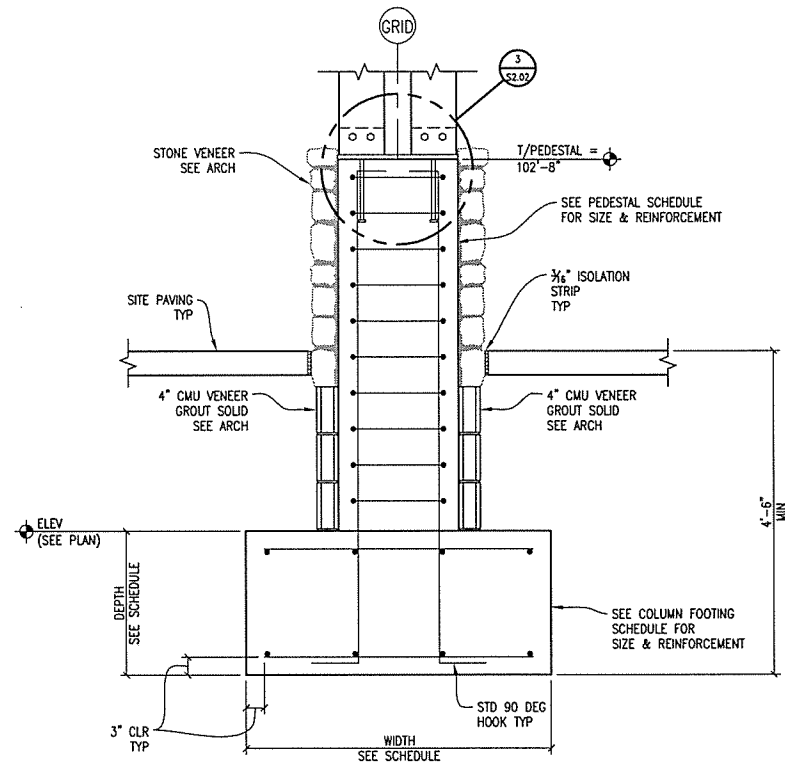
DATE 9/25/2015
 SCALE AS SHOWN
 LEIDOS PROJECT NUMBER 313841
 SHEET S2.01
 90 OF 114

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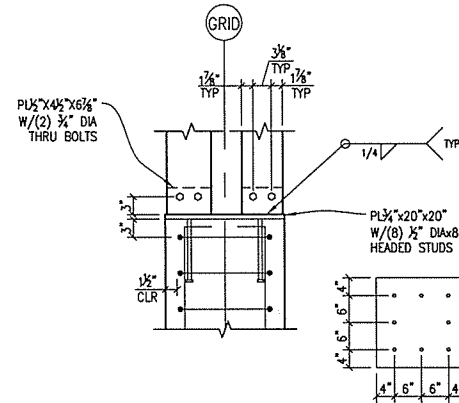
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 User: Eric Scroggins



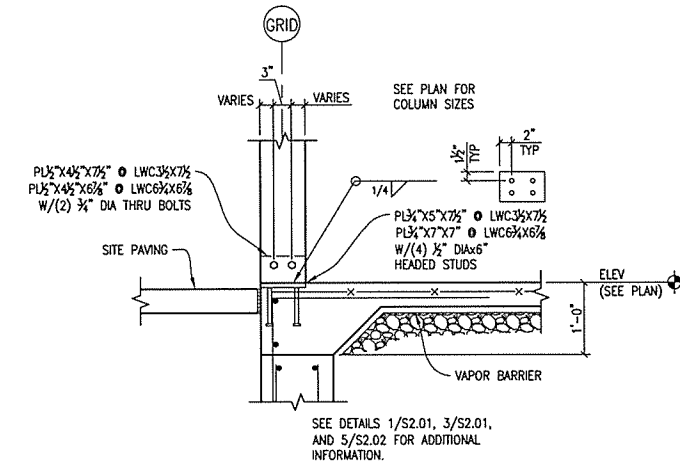
1 EXTERIOR COLUMN PLAN DETAIL
 SCALE: 3/4" = 1'-0"



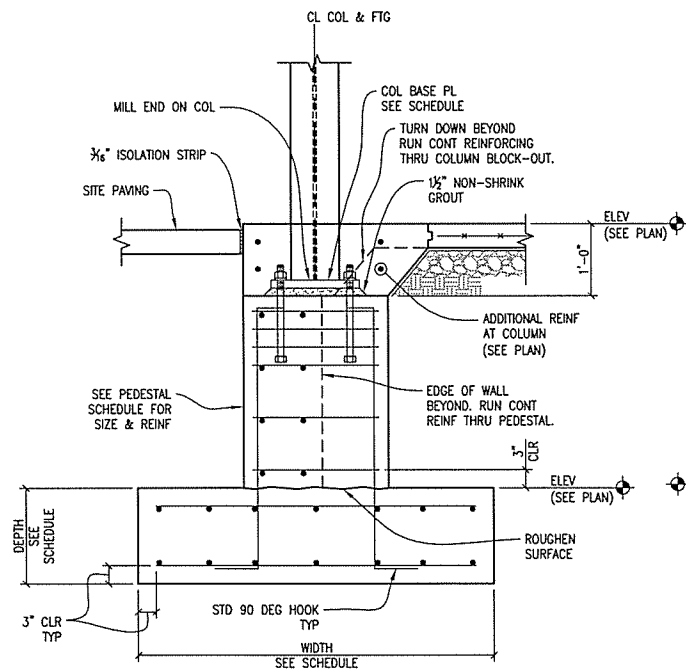
2 COLUMN PEDESTAL DETAIL
 SCALE: 3/4" = 1'-0"



3 COLUMN BEARING DETAIL
 SCALE: 3/4" = 1'-0"

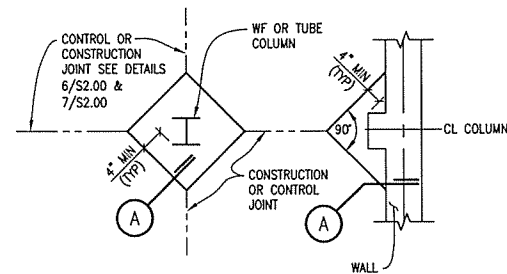


4 PERIMETER COLUMN BEARING DETAIL
 SCALE: 3/4" = 1'-0"

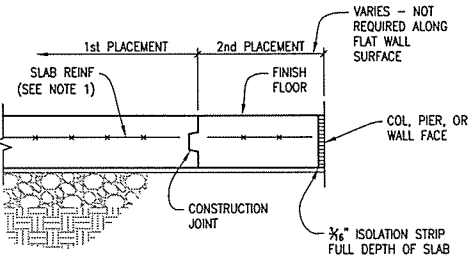


5 COLUMN FOOTING W/PEDESTAL
 SCALE: NTS

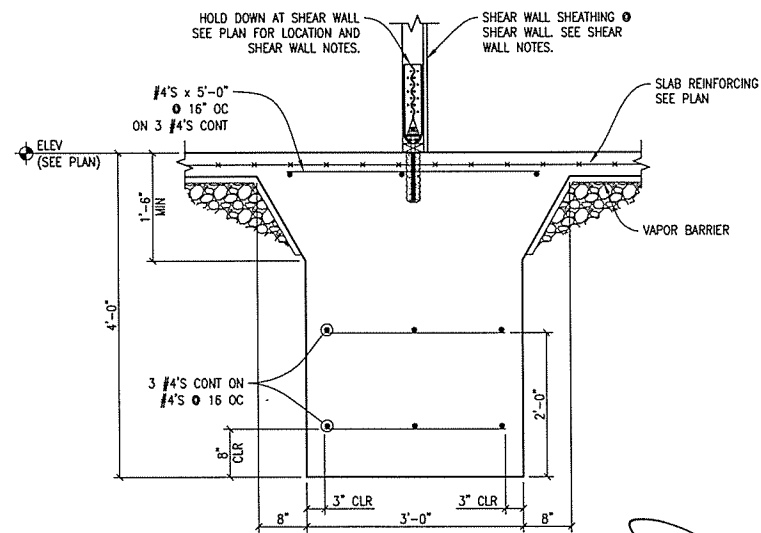
- NOTES:
1. STEEL BELOW TOP OF FLOOR SLAB TO RECEIVE 2 COATS OF BITUMINOUS PAINT OR 3" MIN CONCRETE COVER.
 2. LEVELING PLATES MAY BE USED (NOT SHOWN).
 3. SEE SCHEDULES FOR DIMENSIONS AND REINFORCEMENT.



6 JOINT AT W COLUMNS AND PIERS FOR SLAB ON GRADE
 SCALE: NTS



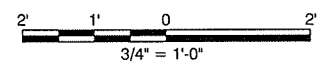
7 INTERIOR WALL FOOTING DETAIL
 SCALE: 3/4" = 1'-0"



STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 6485
 DONALD W. WHITMIRE

CERTIFICATE OF AUTHORITY
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 FOUNDATION DETAILS

DESIGNED BY	ECI
DRAWN BY	ECI
CHECKED BY	ECI
APPROVED BY	ECI

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	REV
S2.02	
91 OF 114	

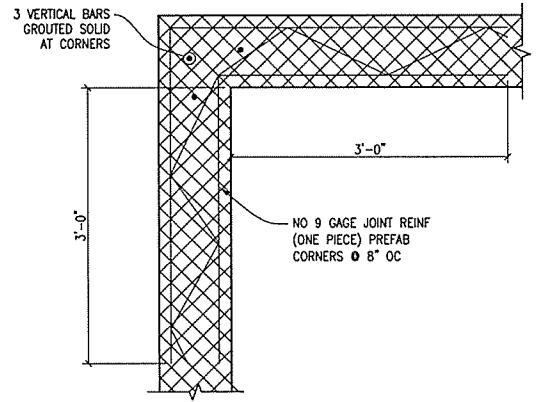
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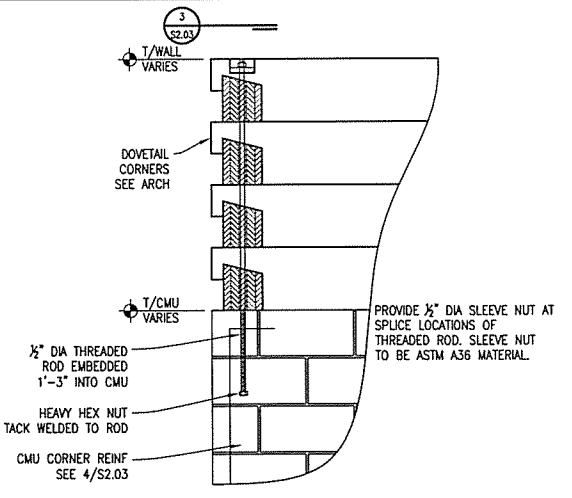
SHEAR WALL SCHEDULE		
MARK	LENGTH (FT)	REMARKS
SHEAR WALL 1	8'-9"	OSB ON WEST SIDE OF WALL
SHEAR WALL 2	10'-9"	OSB ON EAST SIDE OF WALL
SHEAR WALL 3	11'-9"	OSB ON EAST SIDE OF WALL

- WOOD STUDS**
- WOOD SHEAR WALLS:**
- WOOD SHEAR WALLS DESIGNATED ON PLAN ARE PART OF THE LATERAL FORCE RESISTING SYSTEM.
 - WOOD SHEAR WALLS ARE TO EXTEND FROM SLAB ON GRADE TO ROOF DECK UNLESS NOTED OTHERWISE.
 - ALL OSB FOR SHEAR WALLS SHALL BE 1/2" THICK SPAN RATED 32/16. OSB TO BE ON ONE SIDE OF WOOD STUDS.
 - OSB SHEATHING SHALL BE ATTACHED TO WOOD STUDS WITH 8d NAILS PROVIDING 1 1/2" PENETRATION INTO WOOD STUDS.
 - INDIVIDUAL OSB PANEL EDGES TO BE BLOCKED.
 - FASTENER SPACING AT SHEAR WALL BOUNDARY SHALL BE 6" ON CENTER MAXIMUM UNO.
 - FASTENER SPACING AT ALL INDIVIDUAL OSB PANEL EDGES SHALL BE 6" ON CENTER MAXIMUM UNO.
 - FASTENER SPACING FOR ALL INTERMEDIATE FRAMING MEMBERS SHALL BE 12" ON CENTER MAXIMUM.
 - PROVIDE HOLD DOWN ANCHORS AT EACH END OF EACH SHEAR WALL. ANCHOR SHALL BE HOUS-SDS2.5 BY SIMPSON STRONG-TIE WITH (1) 3/8" DIA SET EPOXY-TIE BY SIMPSON STRONG-TIE 9" INTO CONCRETE. NOTED AS HD ON PLAN. CENTER LINE OF ANCHOR ROD SHALL BE 3" FROM THE EDGE OF SLAB.
 - PROVIDE TWO (2) FULL HEIGHT STUDS AT EACH HOLD DOWN.

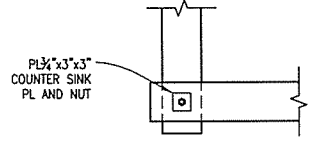
1 SHEAR WALL SCHEDULE
 SCALE: NTS



4 MASONRY WALL CORNER REINFORCING DETAIL
 SCALE: NTS



2 LOG WALL CORNER DETAIL
 SCALE: 3/4" = 1'-0"

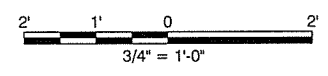


3 PLAN DETAIL - WALL CORNER
 SCALE: 3/4" = 1'-0"

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 FOUNDATION DETAILS

DESIGNED BY	ECI
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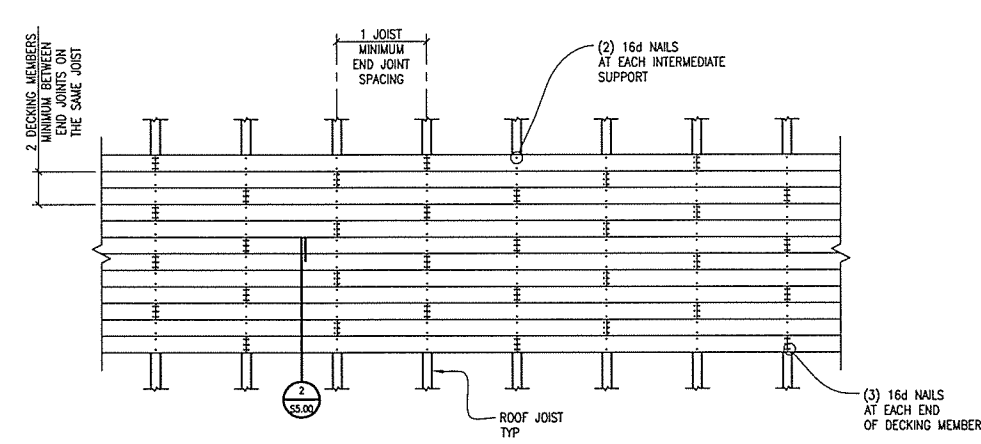
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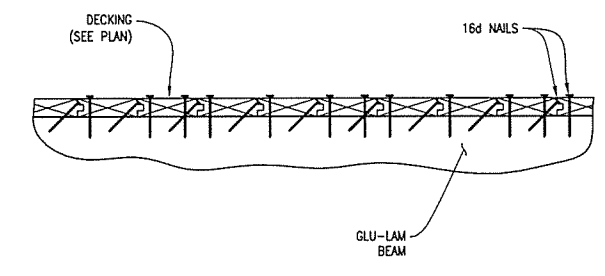
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
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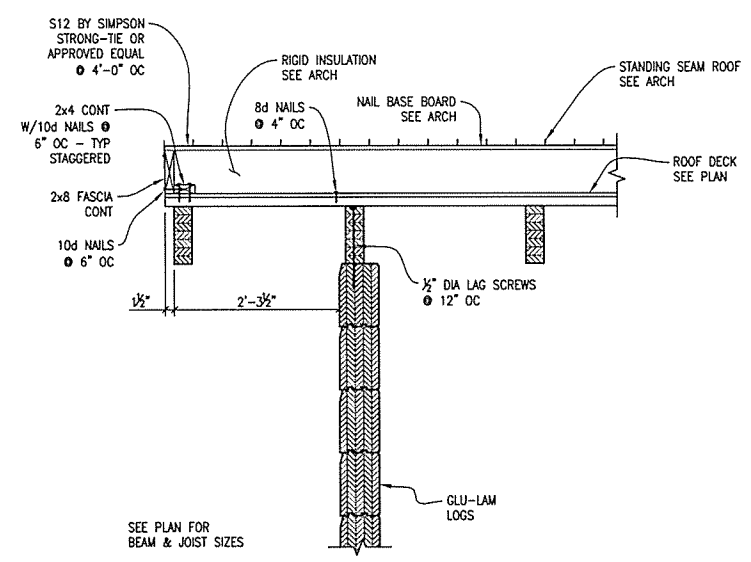
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	55.00
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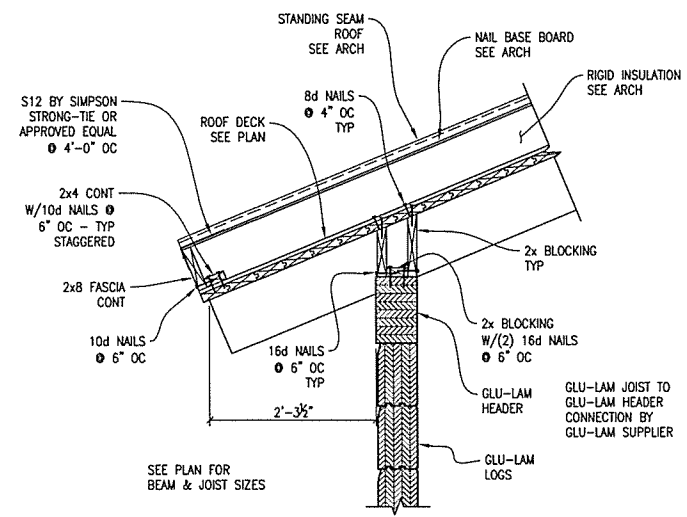
1 PLAN DETAIL - WOOD DECK NAILING
 SCALE: 3/8" = 1'-0"



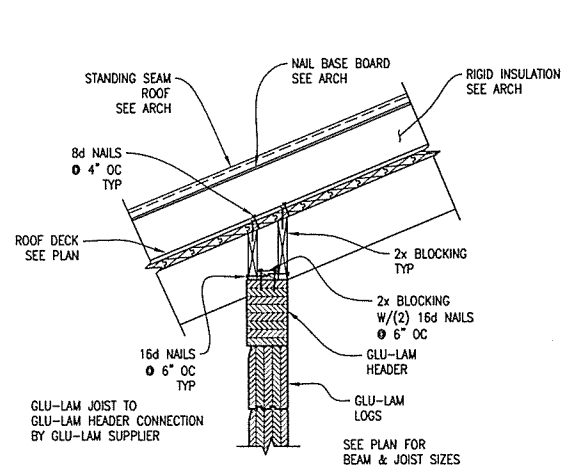
2 WOOD DECK NAIL PATTERN
 SCALE: 1 1/2" = 1'-0"



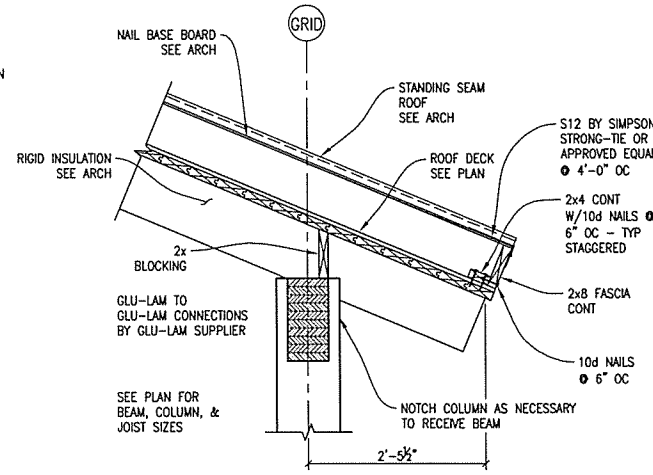
3 ROOF AT EXTERIOR WALL
 SCALE: 3/4" = 1'-0"



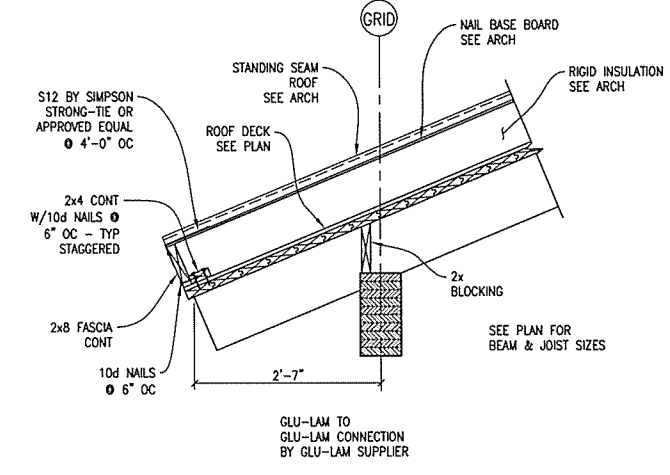
4 RAFTER AT EXTERIOR WALL
 SCALE: 3/4" = 1'-0"



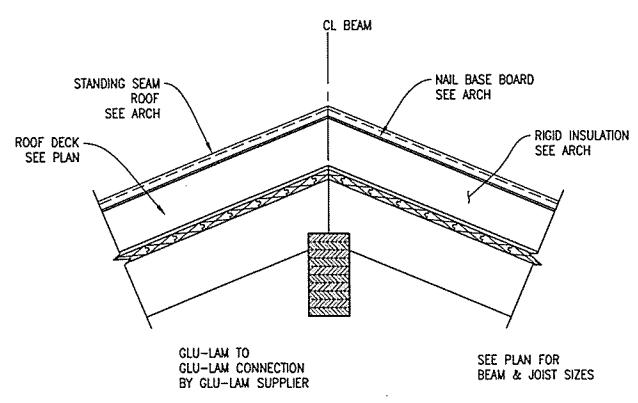
5 RAFTER AT PERIMETER WALL
 SCALE: 3/4" = 1'-0"



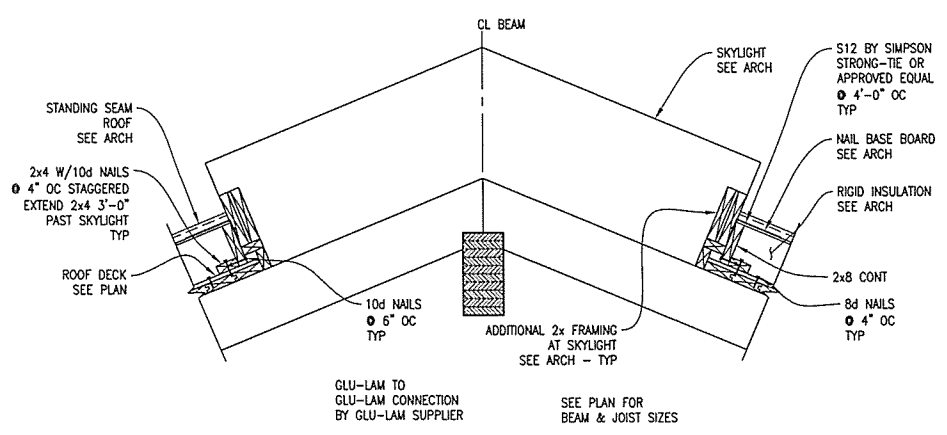
6 RAFTER AT EXTERIOR COLUMN
 SCALE: 3/4" = 1'-0"



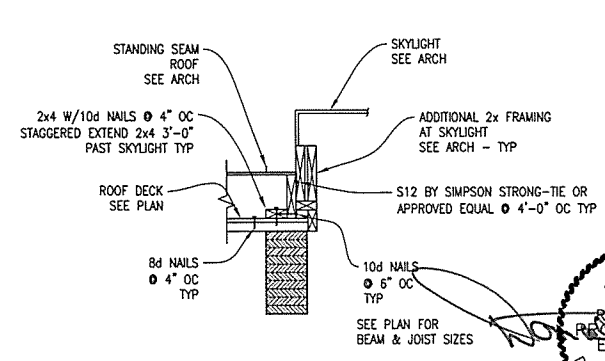
7 RAFTER AT PERIMETER BEAM
 SCALE: 3/4" = 1'-0"



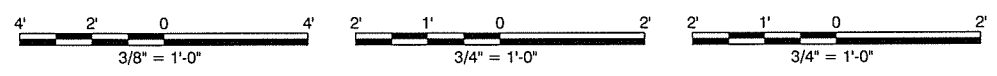
8 RAFTER BEARING AT RIDGE
 SCALE: 3/4" = 1'-0"



9 RIDGE AT SKYLIGHT
 SCALE: 3/4" = 1'-0"



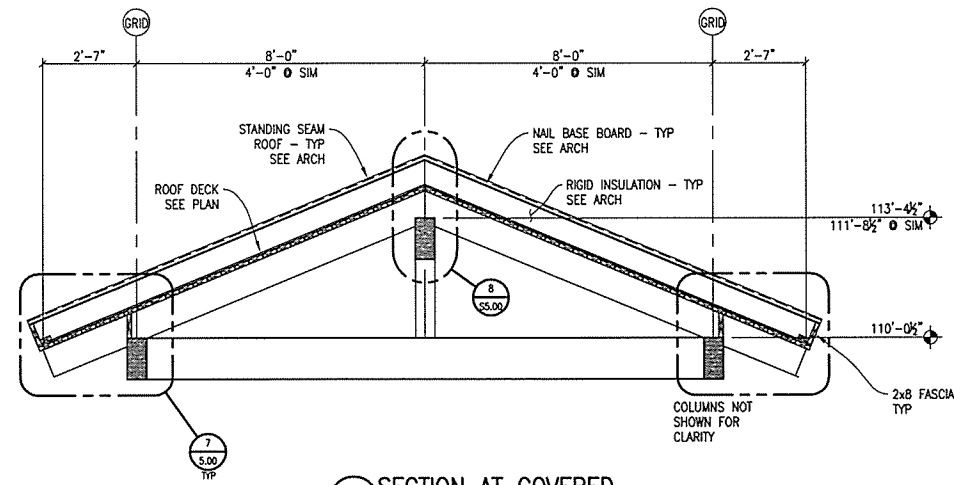
10 SKYLIGHT DETAIL
 SCALE: 3/4" = 1'-0"



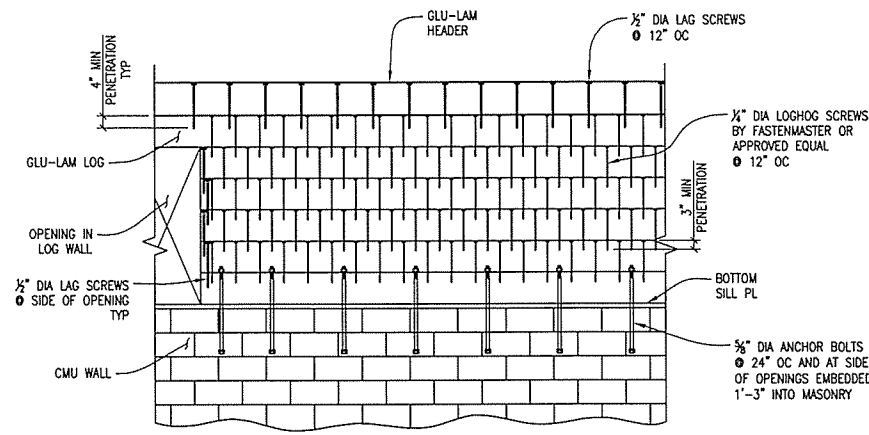
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 STATE OF ARKANSAS
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 No. 6485
 DONALD W. WHITMAN
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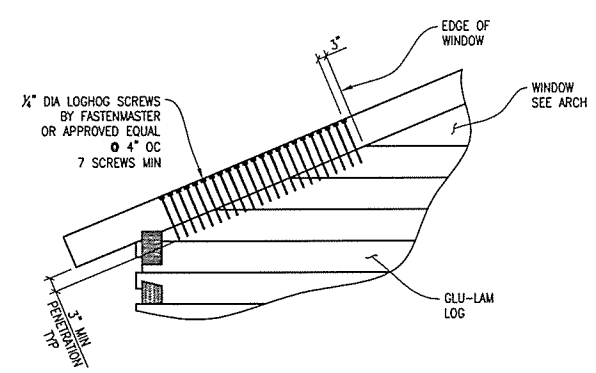
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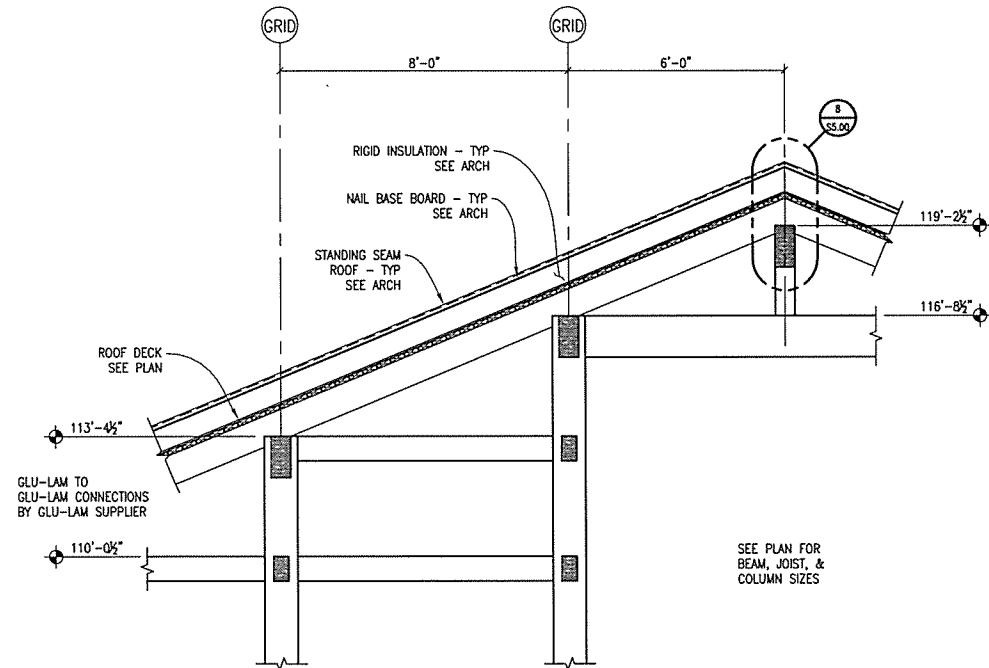
1 SECTION AT COVERED ENTRANCE
 SCALE: 3/8" = 1'-0"



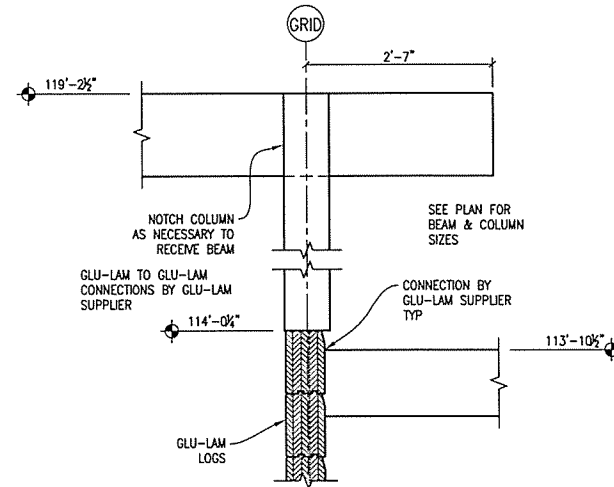
2 ELEVATION - WALL NAIL PATTERN
 SCALE: N.T.S.



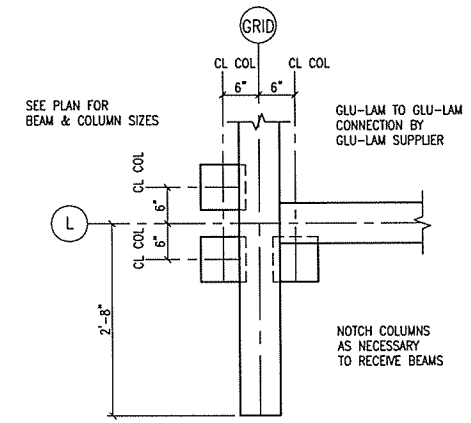
3 ELEVATION - EDGE RAFTER AT WALL
 SCALE: 3/8" = 1'-0"



4 ELEVATION - RIDGE AND INTERIOR BEAMS
 SCALE: 3/8" = 1'-0"



5 STEP IN ROOF ELEVATION
 SCALE: 3/4" = 1'-0"

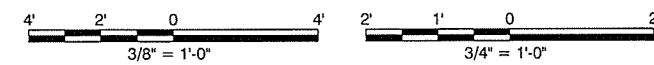


6 PLAN DETAIL
 SCALE: 3/4" = 1'-0"

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

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 RED RIVER
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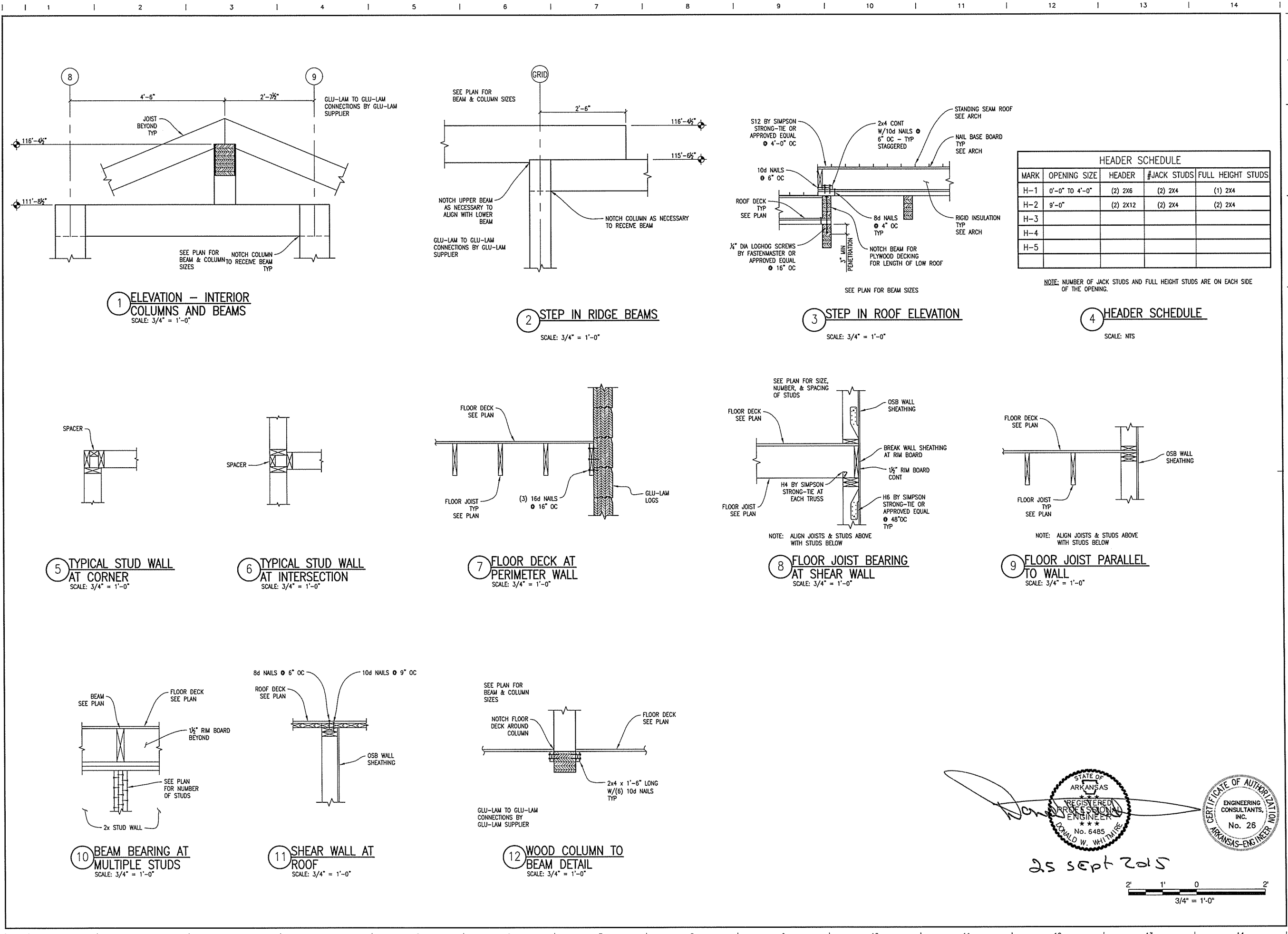
DESIGNED BY	ECI
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APPROVED BY	ECI

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SHEET	S5.01
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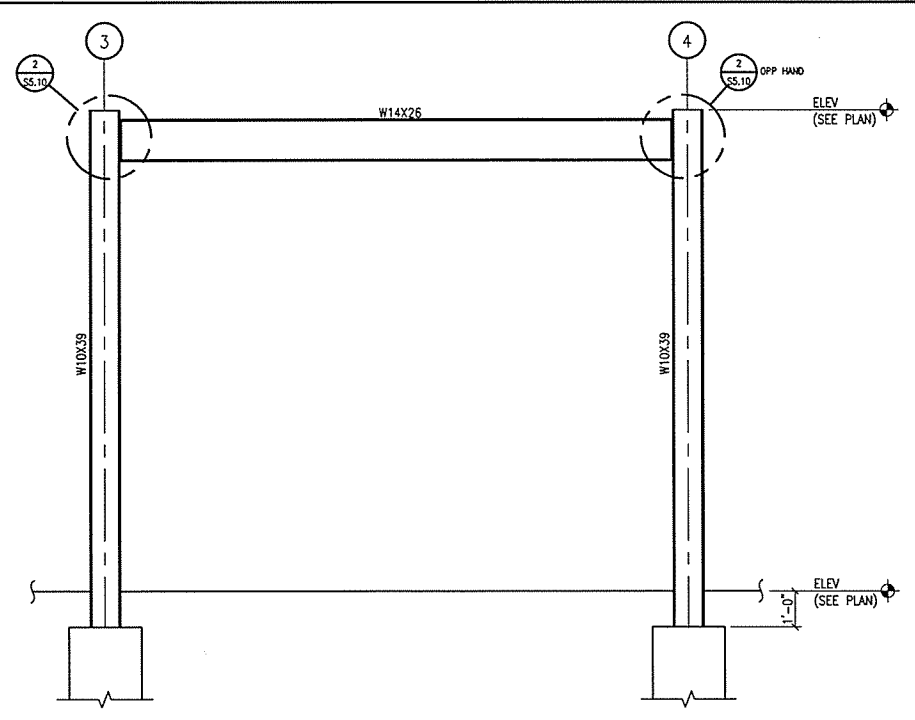
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 6485 DONALD W. WHITMIRE

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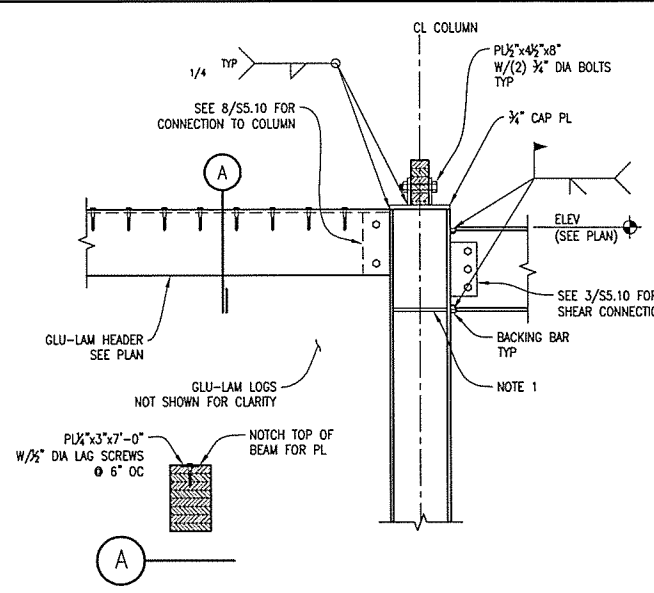
2" 1" 0" 3/4" = 1'-0"

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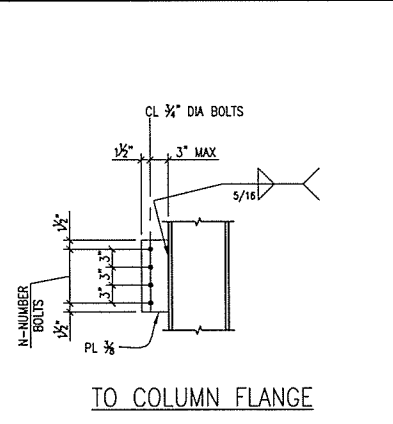
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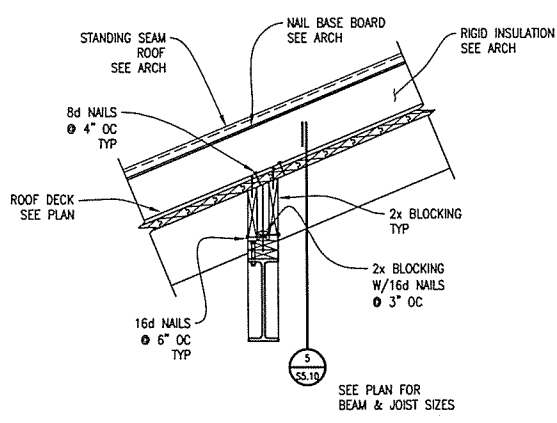
1 MOMENT FRAME ELEVATION
 SCALE: 3/8" = 1'-0"



2 BEAM TO W COLUMN WELDED CONNECTION TYPE 1 - FULLY RIGID
 SCALE: NTS



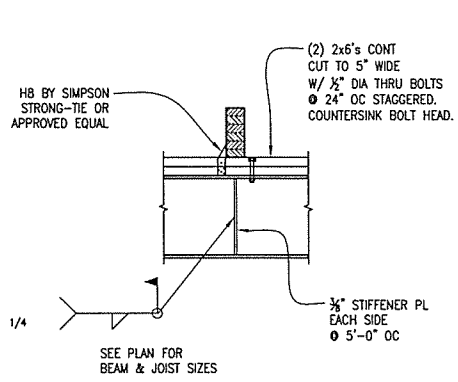
3 SINGLE PL SHEAR CONNECTION
 Scale: NTS



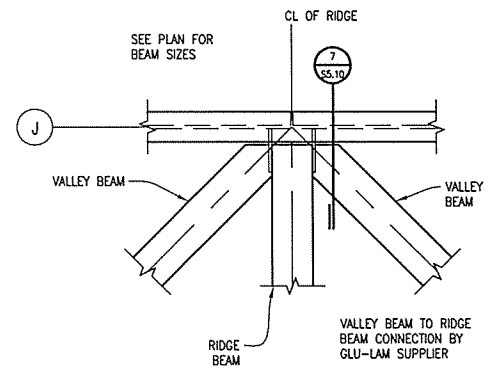
4 RAFTER BEARING AT STEEL BEAM
 SCALE: 3/4" = 1'-0"

BEAM SIZE	N	PL LENGTH (IN)	CAPACITY (KIPS)
W12, W14	3	9	20

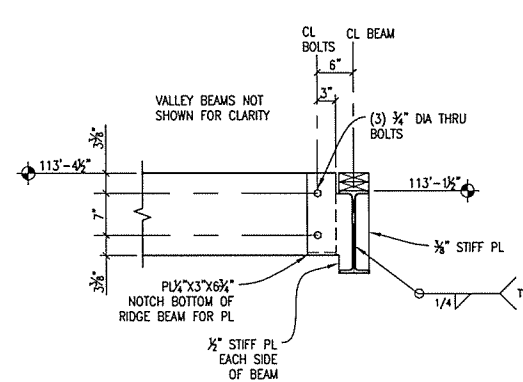
NOTES:
 1. STIFFENER PLATES TO MATCH BM FLANGE THICKNESS, TOP & BOTTOM.
 2. SEE PLANS FOR LOCATIONS AND BEAM AND COLUMN SIZES.
 3. PROVIDE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SHOWN.
 4. AT TOP LEVEL PROVIDE COLUMN CAP PL IN LIEU OF TOP STIFFENER.



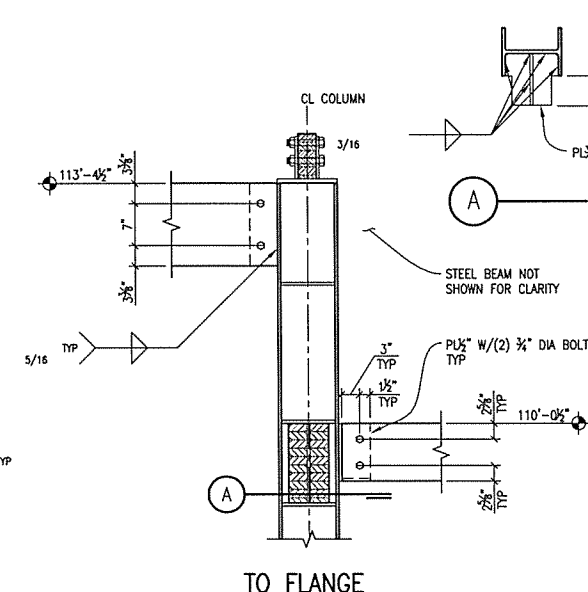
5 RAFTER BEARING AT STEEL BEAM
 SCALE: 3/4" = 1'-0"



6 RIDGE AND VALLEY BEAM INTERSECTION
 SCALE: 3/4" = 1'-0"



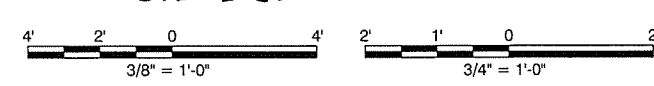
7 RIDGE BEAM TO STEEL BEAM CONNECTION
 SCALE: 3/4" = 1'-0"



8 INTERIOR BEAMS TO COLUMN WEB CONNECTION
 SCALE: 3/4" = 1'-0"

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 DONALD W. WHITMIRE
 No. 6485
 25 SEPT 2015

CERTIFICATE OF AUTHORITY
 ENGINEERING CONSULTANTS, INC.
 No. 26
 ARKANSAS-ENGINEER, NO. 10



leidos
 Leidos Engineering, LLC
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 (479) 442-3060
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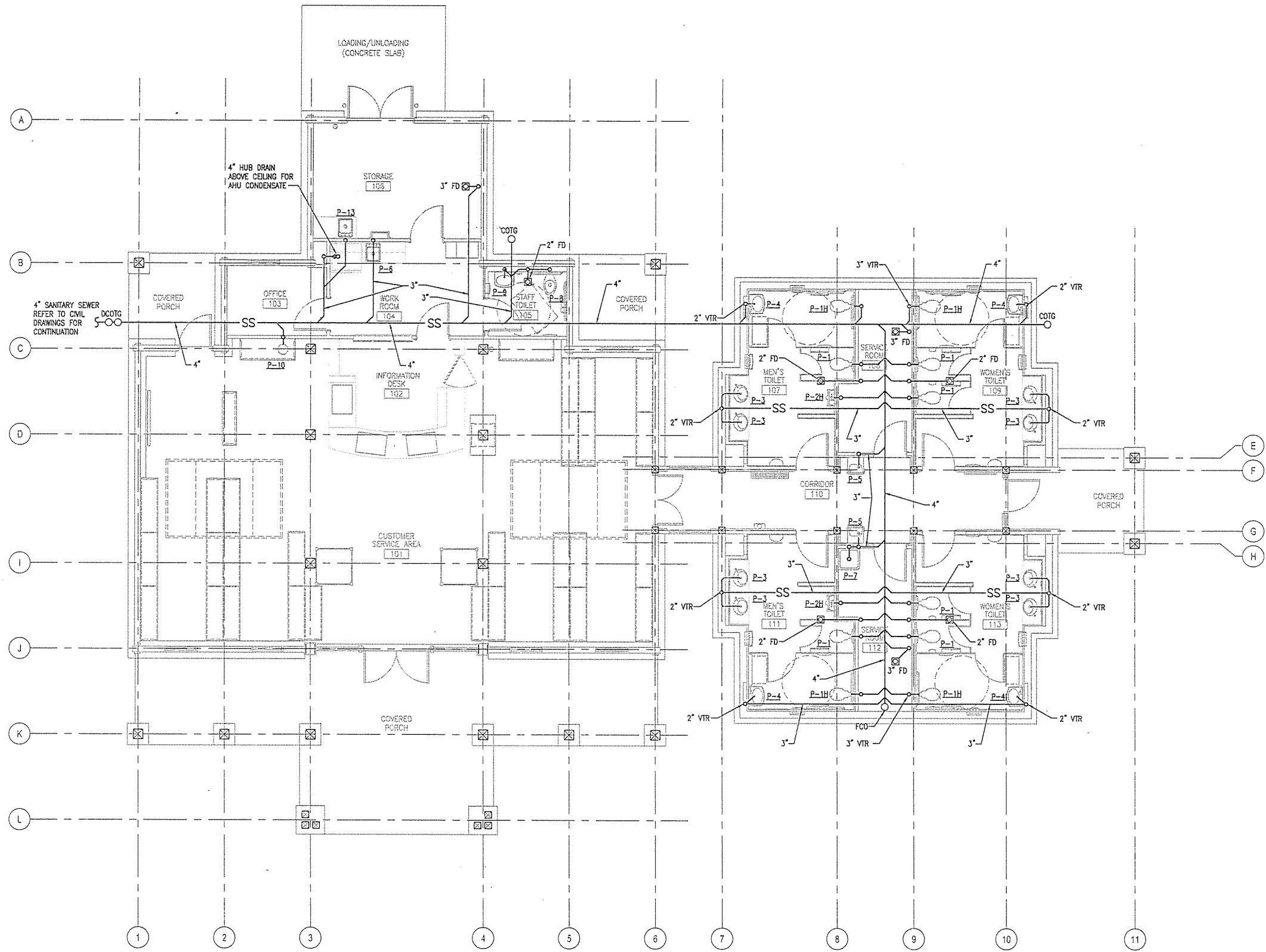
ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

STEEL FRAMING DETAILS

DESIGNED BY	ECI
DRAWN BY	ECI
CHECKED BY	ECI
APPROVED BY	ECI

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	S5.10
REV	96 OF 114

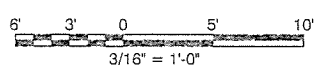
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 Date: September 23, 2015 - 10:31am
 User: zehndem



A
P-101
SANITARY SEWER PLAN
 SCALE: 3/16" = 1'-0"



- NOTES:**
1. MAINTAIN A MINIMUM OF 30" COVER OVER WATER MAIN AND WATER SERVICES.
 2. MAINTAIN A MINIMUM OF 30" COVER OVER SANITARY SEWER SERVICES.
 3. MAINTAIN A MINIMUM OF 18" CLEARANCE AT SANITARY SEWER AND WATER SERVICE CROSSINGS. WATER SERVICE MUST CROSS OVER SANITARY SEWER.
 4. MAINTAIN A MINIMUM OF 12" CLEARANCE AT WATER SERVICE AND ELECTRICAL SERVICE CROSSINGS. ELECTRICAL SERVICE MUST CROSS OVER WATER SERVICE.



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ARIZONA REGISTERED PROFESSIONAL ENGINEER
 No. 15880
 The Ashley Blake

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 27
 LEIDOS ENGINEERING, LLC
 No. 27

9/25/15

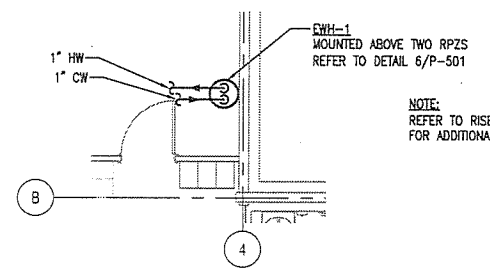
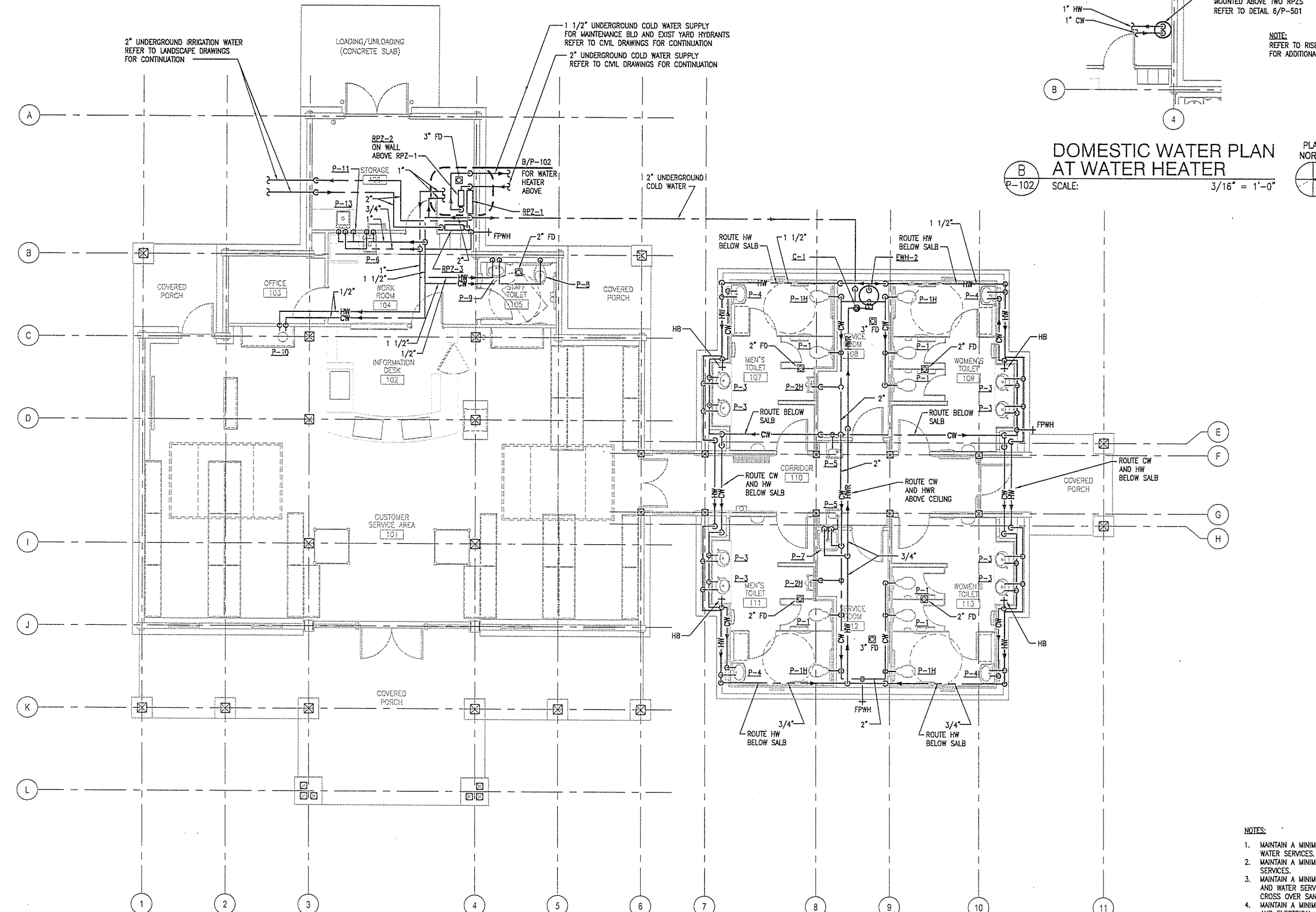
ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 080449
 ARIZONA WELCOME CENTER
 RED RIVER

SANITARY SEWER PLAN

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	P-101
REV	97 of 114

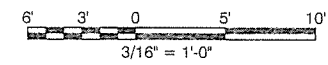
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DOMESTIC WATER PLAN AT WATER HEATER
 SCALE: 3/16" = 1'-0"
 PLAN NORTH

DOMESTIC WATER PLAN
 SCALE: 3/16" = 1'-0"
 PLAN NORTH

- NOTES:**
1. MAINTAIN A MINIMUM OF 30" COVER OVER WATER MAIN AND WATER SERVICES.
 2. MAINTAIN A MINIMUM OF 30" COVER OVER SANITARY SEWER SERVICES.
 3. MAINTAIN A MINIMUM OF 18" CLEARANCE AT SANITARY SEWER AND WATER SERVICE CROSSINGS. WATER SERVICE MUST CROSS OVER SANITARY SEWER.
 4. MAINTAIN A MINIMUM OF 12" CLEARANCE AT WATER SERVICE AND ELECTRICAL SERVICE CROSSINGS. ELECTRICAL SERVICE MUST CROSS OVER WATER SERVICE.



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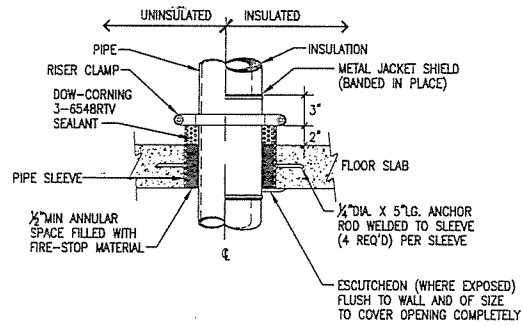
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 REGISTERED PROFESSIONAL ENGINEER
 Ashley Rieple
 No. 15880
 LEIDOS ENGINEERING, LLC
 No. 813

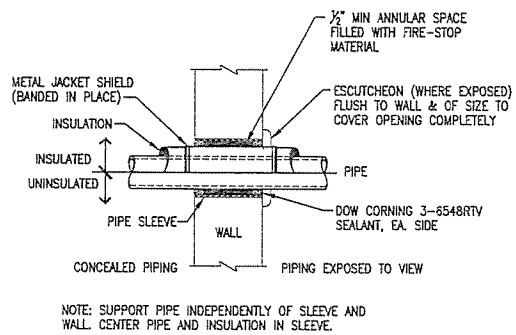
DESIGNED BY MJZ
 DRAWN BY MJZ
 CHECKED BY JAR
 APPROVED BY JAR

DATE	9/25/2015
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LEIDOS PROJECT NUMBER	313841
SHEET	P-102
	REV

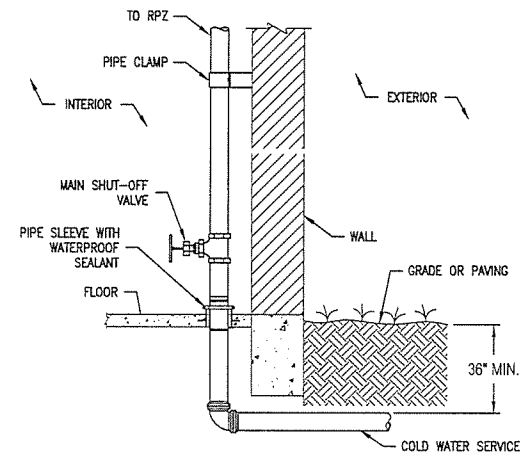
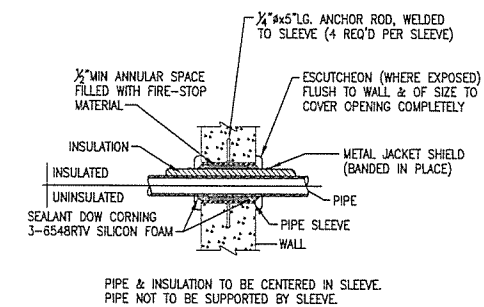
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SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	P-102
	REV



1 TYPICAL PIPE THRU FLOOR
P-501 NO SCALE

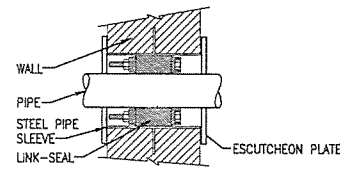


4 TYPICAL PIPE THRU WALL
P-501 NO SCALE

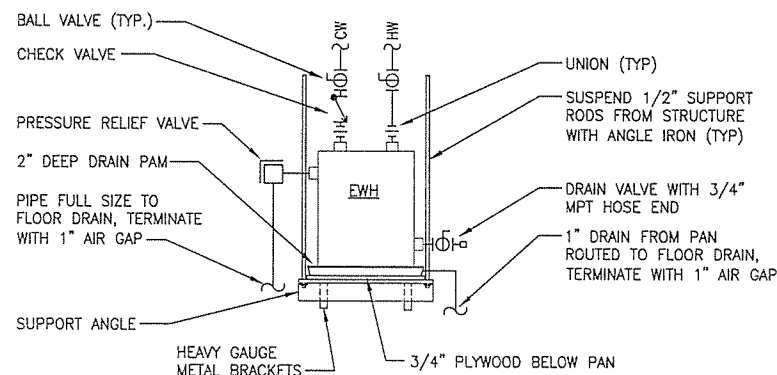


3 TYPICAL COLD WATER ENTRY DETAIL
P-501 NO SCALE

COPPER TUBING TYPE K-L-M	
PIPE SIZES	SLEEVE OPENING
3/8"-3"	1" LARGER THAN PIPE O.D.
4"	1 1/2" LARGER THAN PIPE O.D.
CAST IRON-CLASS "A"	
PIPE SIZES	SLEEVE OPENING
2"-3"	1 1/2" LARGER THAN PIPE O.D.
4"-6"	3" LARGER THAN PIPE O.D.
STEEL PIPE	
PIPE SIZES	SLEEVE OPENING
1/2"-1 1/2"	1" LARGER THAN PIPE O.D.
2"-3"	1 1/2" LARGER THAN PIPE O.D.
4"-8"	2" LARGER THAN PIPE O.D.

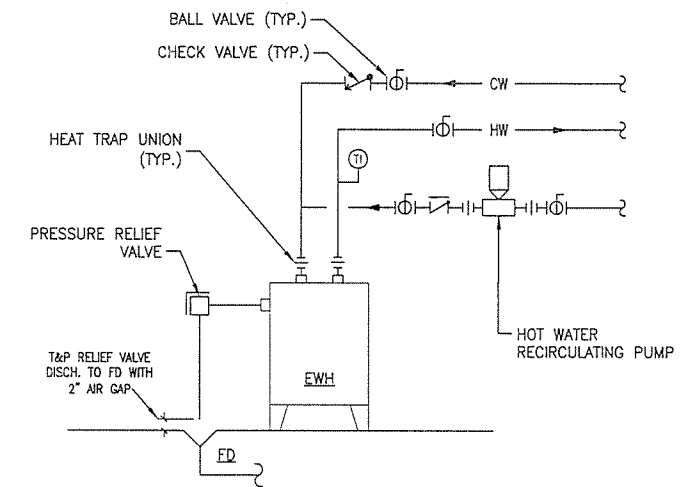


2 TYPICAL EXTERIOR WALL PIPE PENETRATION DETAIL
P-501 NO SCALE



NOTE: WATER HEATER SHALL MEET "ENERGY STAR" GUIDELINES.

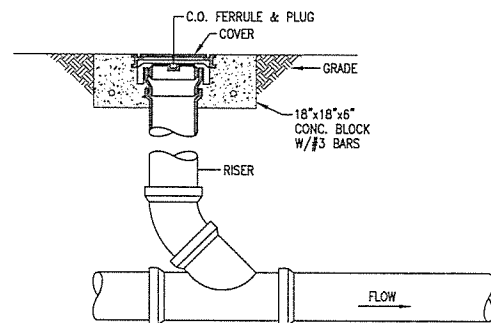
6 TYPICAL STRUCTURE SUSPENDED HOT WATER HEATER DIAGRAM
P-501 NO SCALE



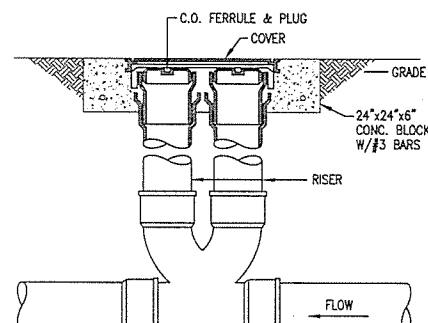
NOTE: WATER HEATER SHALL MEET "ENERGY STAR" GUIDELINES.

7 TYPICAL FLOOR MOUNTED HOT WATER HEATER DIAGRAM
P-501 NO SCALE

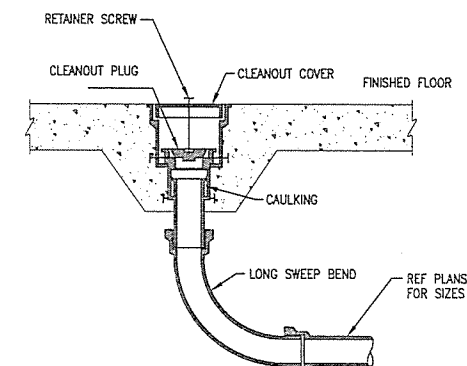
5 TYPICAL PIPE THRU INTERIOR CONCRETE WALL
P-501 NO SCALE



8 TYPICAL EXTERIOR CLEANOUT DETAIL
P-501 NO SCALE



9 TYPICAL TWO-WAY CLEANOUT DETAIL
P-501 NO SCALE



10 TYPICAL INTERIOR CLEANOUT DETAIL
P-501 NO SCALE

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(479) 442-3060
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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 4308
Ashley Piles
LEIDOS ENGINEERING, LLC
No. 819
Arkansas

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT
Job No. 030449
ARKANSAS WELCOME CENTER
RED RIVER
9/25/15
PLUMBING DETAILS

DESIGNED BY MJZ
DRAWN BY MJZ
CHECKED BY JAR
APPROVED BY JAR

DATE 9/25/2015
SCALE AS SHOWN
LEIDOS PROJECT NUMBER 313841
SHEET P-501 | REV 99 OF 114



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 Fayetteville, Arkansas 72703
 (479) 442-3060
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PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	FIXTURE				FAUCET/HANDLES OR FLUSH VALVES		RUN OUT SIZES (INCHES)				REMARKS
		MANUFACTURER	MODEL	COLOR	MOUNTING	MANUFACTURER	MODEL	CW	HW	WASTE	VENT	
P-1	WATER CLOSET	KOHLER	K-4349	WHITE	FLOOR	SLOAN	140-1.6 ES-S	1	-	4	2	NOTE 2, 4
P-1H	WATER CLOSET, HANDICAPPED	KOHLER	K-4367	WHITE	FLOOR	SLOAN	140-1.6-ES-S	1	-	4	2	NOTE 1, 2, 4
P-2H	URINAL, HANDICAPPED	KOHLER	K-4989-R	WHITE	WALL	SLOAN	195-1.0 ES-S	3/4	-	2	1-1/2	NOTE 1, 4
P-3	LAVATORY	KINDRED	KSOV1318U/7	STAINLESS STEEL	COUNTER UNDERMOUNT	SLOAN	ETF-80-4	1/2	1/2	1-1/4	1-1/4	NOTE 5
P-4	LAVATORY	KOHLER	K-2035-4	WHITE	WALL	SLOAN	ETF-80-4	1/2	1/2	1-1/4	1-1/4	NOTE 5
P-5	ELECTRIC WATER COOLER	ELKAY	EZ8	-----	WALL	-----	-----	1/2	-	1-1/2	1-1/2	
P-6	KITCHEN SINK	KOHLER	K-3314-3	STAINLESS STEEL	COUNTER	KOHLER	K-15888-K	1/2	1/2	1-1/2	1-1/2	NOTE 3
P-7	MOP SINK, 24X24	STERN WILLIAMS	MTB-2424	GRAY	FLOOR	STERN WILLIAMS	T-10-V8	1/2	1/2	3	2	
P-8	WATER CLOSET, HANDICAPPED	KOHLER	K-4368	WHITE	FLOOR	SLOAN	111	1	-	4	2	NOTE 1, 2
P-9	LAVATORY	KOHLER	K-2035-4	WHITE	WALL	SLOAN	QT-1320-4	1/2	1/2	1-1/4	1-1/4	
P-10	COFFEE BAR SINK	KOHLER	K-2610-S	STAINLESS STEEL	COUNTER UNDER MOUNT	KOHLER	K-16112-4A-BN	1/2	1/2	1-1/4	1-1/4	NICKEL FINISH
P-11	REFRIG. OUTLET BOX	OATEY	39140	WHITE	WALL	OATEY	1/4" TURN VALVE	1/2	-	-	-	MOUNTED WHA
P-12	SERVICE SINK (MAINT. BLD)	ELKAY	ESSB2520C	STAINLESS STEEL	FLOOR	KOHLER	LK907BR03L2H	1/2	1/2	3-1/2	2	ROUGH CHROME FINISH
P-13	COFFEE SINK	KOHLER	K-3349-2	STAINLESS STEEL	COUNTER	KOHLER	K-16112-4A	1/2	1/2	1-1/4	1-1/4	CHROME FINISH

1. FRONT LIP SHALL BE 17" AFF.
 2. SEAT: KOHLER K-4670-CA-0
 3. HANDLES: KOHLER 15850
 4. TRANSFORMER SLOAN EL-154. TRANSFORMER SERVES MULTIPLE FLUSH VALVES, COORDINATE WITH ELECTRICAL FOR QUANTITY.
 5. TRANSFORMER SLOAN EL-154. TRANSFORMER SERVES MULTIPLE FAUCETS, COORDINATE WITH ELECTRICAL FOR QUANTITY.

ELECTRIC WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN	MODEL	CAPACITY (GALLONS)	ELECTRICAL (V/PH/HZ)	FULL LOAD AMPS	ELEMENTS	INPUT (KW)
EW-1	A.O. SMITH	DSE-10	10	230/1/60	13.1	1	3.0
EW-2	A.O. SMITH	DSE-50	50	230/1/60	26	1	6.0

RECIRCULATING PUMP SCHEDULE

MARK	BASIS OF DESIGN	MODEL	MAX SERVICE TEMP (°F)	FLOW RATE (GPM)	MAX HEAD (FT.)	RPM	CONNECTION (IN.)	POWER (HP)	ELECTRICAL (V/PH/HZ)
C-1	BELL AND GOSSETT	PL-30B	160	8	12	2650	1	1/12	120/1/60

ELECTRIC TANKLESS WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN	MODEL	TEMP RISE (°F)	FLOWRATE (GPM)	POWER (V/PH/HZ)	KW	AMPS
EW-3	BOSCH	WH17	60	2.0	230/1/60	17.5	2 @ 40

MISC. PLUMBING EQUIPMENT

- KITCHEN SINK (P-6) GARBAGE DISPOSAL SHALL BE IN-SINK-ERATOR BADGER 5 (OR APPROVED EQUAL). 1/2 HP WITH 120V/1Ø/60HZ POWER. PROVIDE WALL SWITCH CONTROL.
- REDUCED PRESSURE ZONE (RPZ) SHALL BE WATTS (OR APPROVED EQUAL) BACKFLOW PREVENTION ASSEMBLY.

RPZ	SIZE (IN.)	MODEL
1	2	LF909S
2	1 1/2	LF009
3	2	LF009
- FREEZE PROOF WALL HYDRANT (FPWH) SHALL BE WOODFORD MODEL 65 (OR APPROVED EQUAL). 3/4" CONNECTION.
- HOSE BIBB (HB) SHALL BE WOODFORD MODEL 24 (OR APPROVED EQUAL). 3/4" CONNECTION.
- FLOOR DRAIN BY ZURN MOD. ZN-415, ADJUSTABLE COLLAR, MEMBRANE CLAMP, NICKEL BRONZE STRAINER AND "P" TRAP WITH 1/2" PRIMER LINE CONNECTION.
- TRAP PRIME VALVE BY PPP (PRECISION PLUMBING PRODUCTS), MODEL PR-500 PRIME-RITE, WITH WATER DISTRIBUTION SYSTEM FOR 3 DRAINS.

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARIZONA WELCOME CENTER
 RED RIVER

STATE OF ARIZONA
 REGISTERED PROFESSIONAL ENGINEER
 No. 5000
 Shelby P. [Signature]

LEIDOS ENGINEERING, LLC
 No. 513
 [Signature]

PLUMBING SCHEDULES

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	P-601
REV	
100 OF 114	



Leidos Engineering, LLC
 3608 N. Steele Blvd, Suite 105
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 www.leidos.com

PLUMBING SYMBOLS	
SS	NEW SANITARY SEWER PIPING
---	VENT PIPING
---	DOMESTIC COLD WATER-CW
---	DOMESTIC HOT WATER-HW
---	DOMESTIC HOT WATER RETURN-HWR
⌋	ELBOW - TURNED DOWN
⌋	ELBOW - TURNED UP
⊕	FD - FLOOR DRAIN
⊖	WCO - WALL CLEAN-OUT
⊕	FCO - FLOOR CLEAN-OUT
⊖	COTG - CLEAN-OUT TO GRADE
+	FPWH - FROST PROOF WALL HYDRANT
+	HB - HOSE BIBB

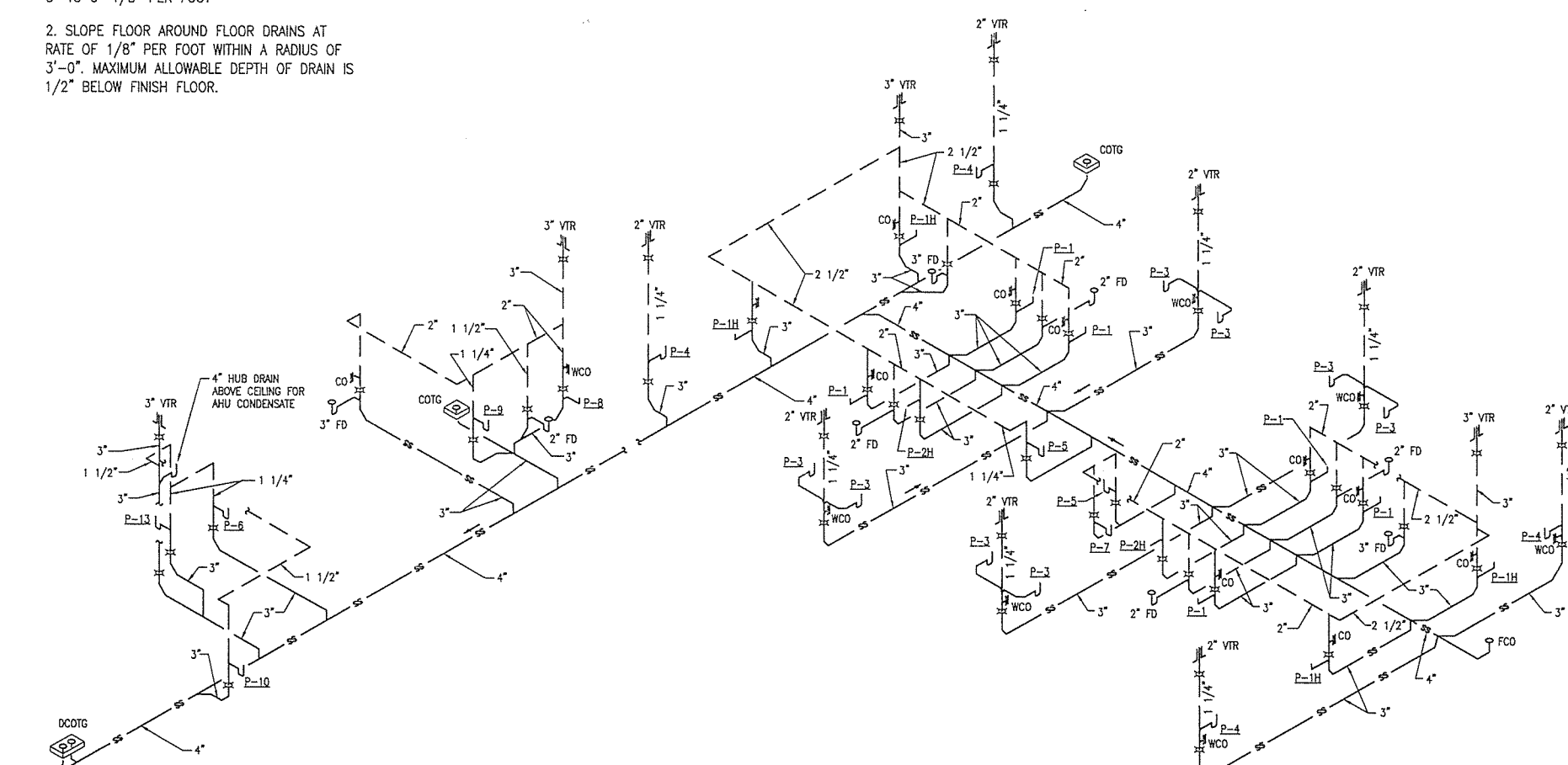
NOTES:

- INTERNATIONAL PLUMBING CODE REQUIREMENT FOR HORIZONTAL DRAINAGE MIN SLOPE OF:
 2-1/2" OR LESS 1/4" PER FOOT
 3" TO 6" 1/8" PER FOOT
- SLOPE FLOOR AROUND FLOOR DRAINS AT RATE OF 1/8" PER FOOT WITHIN A RADIUS OF 3'-0". MAXIMUM ALLOWABLE DEPTH OF DRAIN IS 1/2" BELOW FINISH FLOOR.

2" UNDERGROUND COLD WATER SUPPLY REFER TO CIVIL DRAWINGS FOR CONTINUATION
 1 1/2" UNDERGROUND COLD WATER SUPPLY FOR MAINTENANCE BLD AND EXIST YARD HYDRANTS REFER TO CIVIL DRAWINGS FOR CONTINUATION

2" UNDERGROUND IRRIGATION WATER REFER TO LANDSCAPE DRAWINGS FOR CONTINUATION

A WATER RISERS
 P602 N.T.S. RE: A/P-102



4" SANITARY SEWER REFER TO CIVIL DRAWINGS FOR CONTINUATION

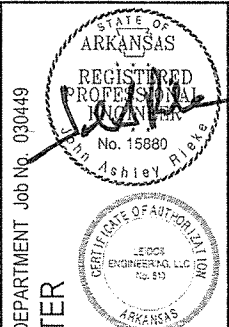
B SEWER RISERS
 P602 N.T.S. RE: A/P-101

WATER HAMMER ARRESTOR SCHEDULE ZURN SERIES 1700 OR EQUAL

PDI TYPE	FIXTURE UNITS
A	1 THRU 11
B	12 THRU 32
C	61 THRU 113

- NOTES:
- ROUTE ALL WATER LINES BELOW SLAB WITH SOFT DRAWN COPPER AND NO JOINTS BELOW SLAB, RISE PIPE ON THE ROOM SIDE OF INSULATION.
 - PROVIDE ACCESS DOORS TO VALVES AND WHA'S REQUIRING MAINTENANCE.

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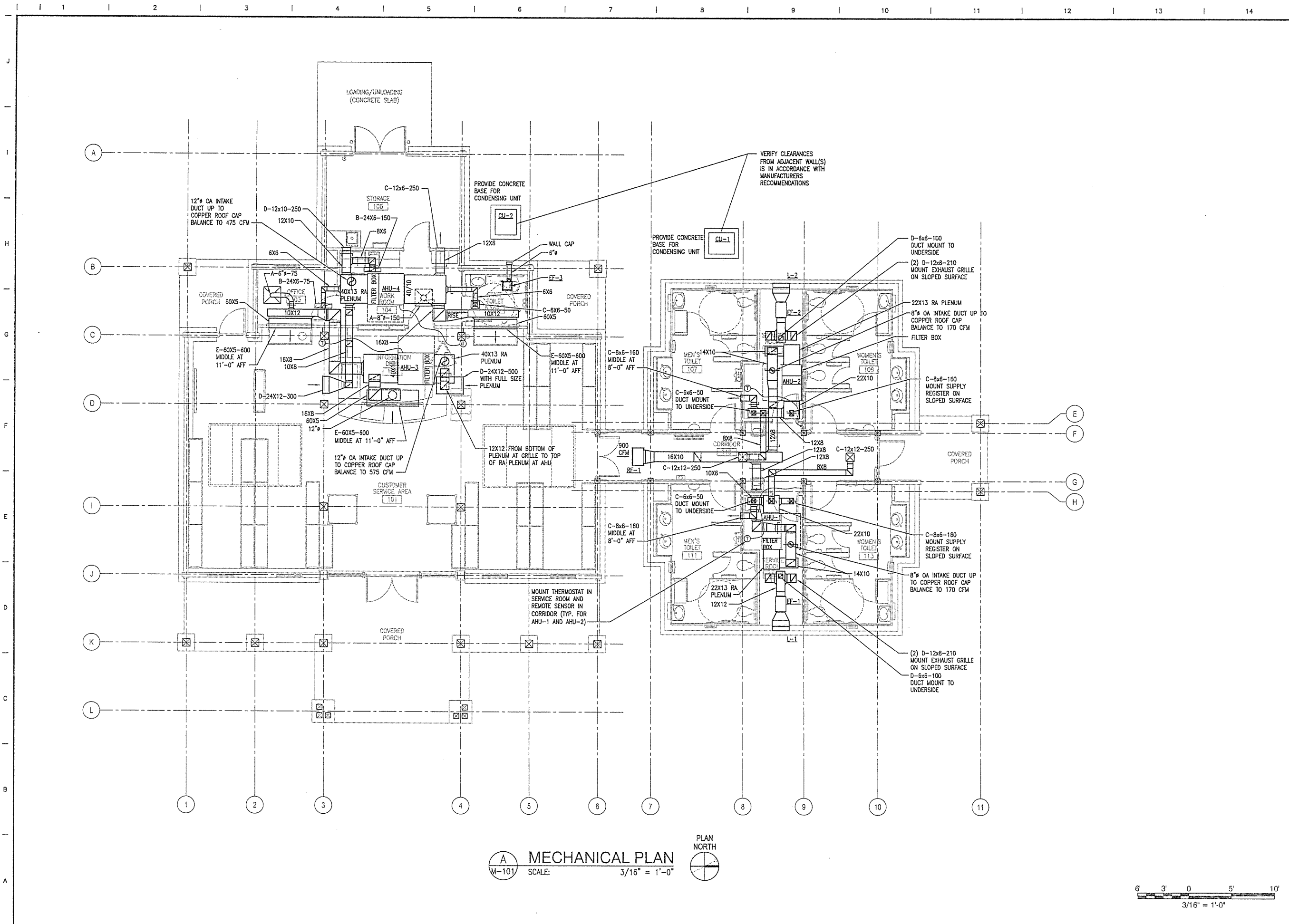
ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 PLUMBING RISERS

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

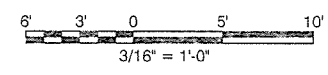
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SHEET	P-602
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 User: zshelton



M-101 MECHANICAL PLAN
 SCALE: 3/16" = 1'-0"
 PLAN NORTH



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MECHANICAL PLAN

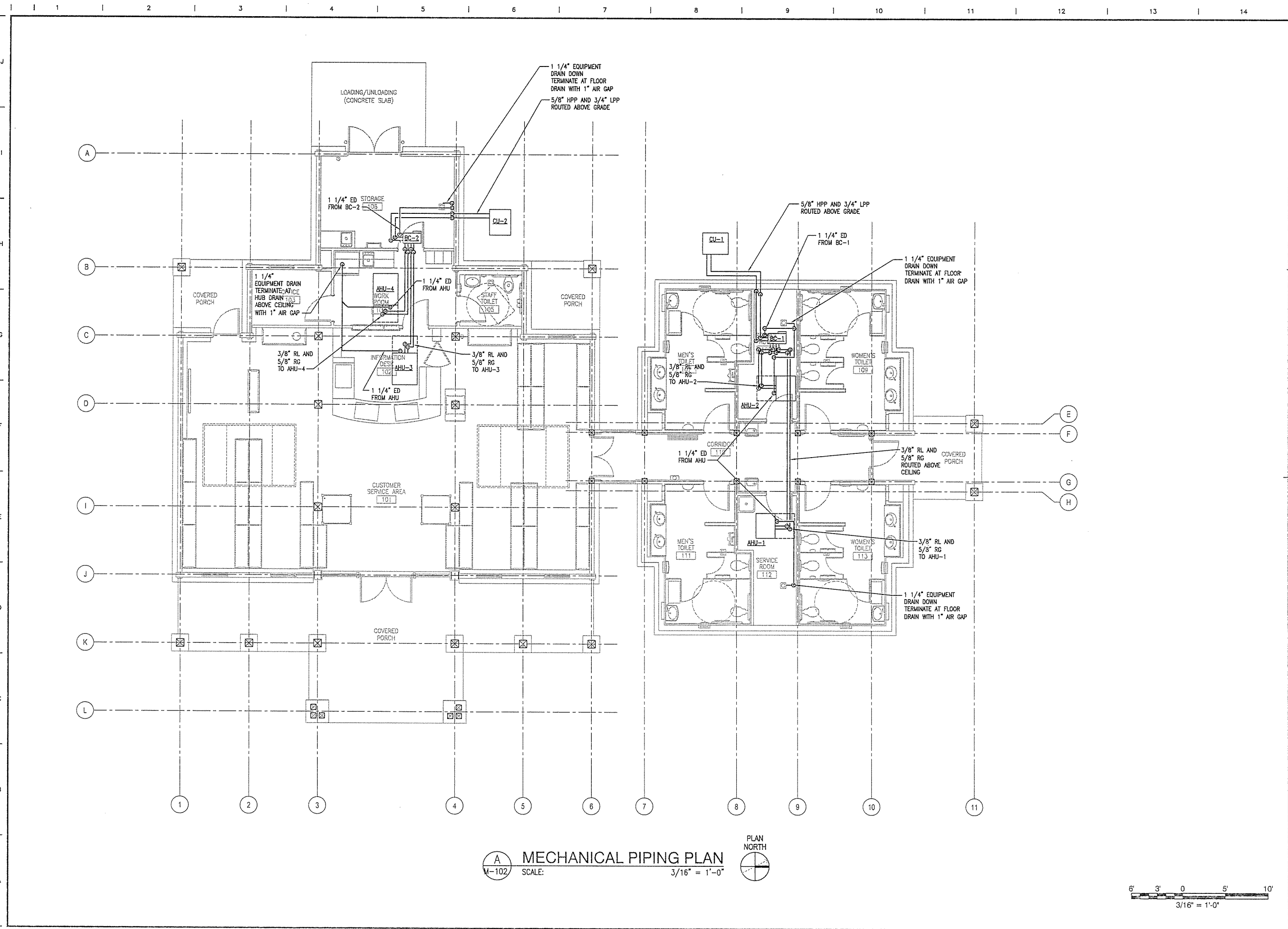
STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 J. Ashby Rife
 No. 15880
 9/25/15

STATE OF ARKANSAS
 CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 573

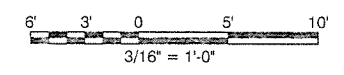
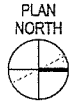
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APPROVED BY	JAR

DATE	9/25/2015
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LEIDOS PROJECT NUMBER	313841
SHEET	M-101
	102 OF 114

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 Date: September 23, 2015, 10:00am
 User: zshidom



M-102 MECHANICAL PIPING PLAN
 SCALE: 3/16" = 1'-0"



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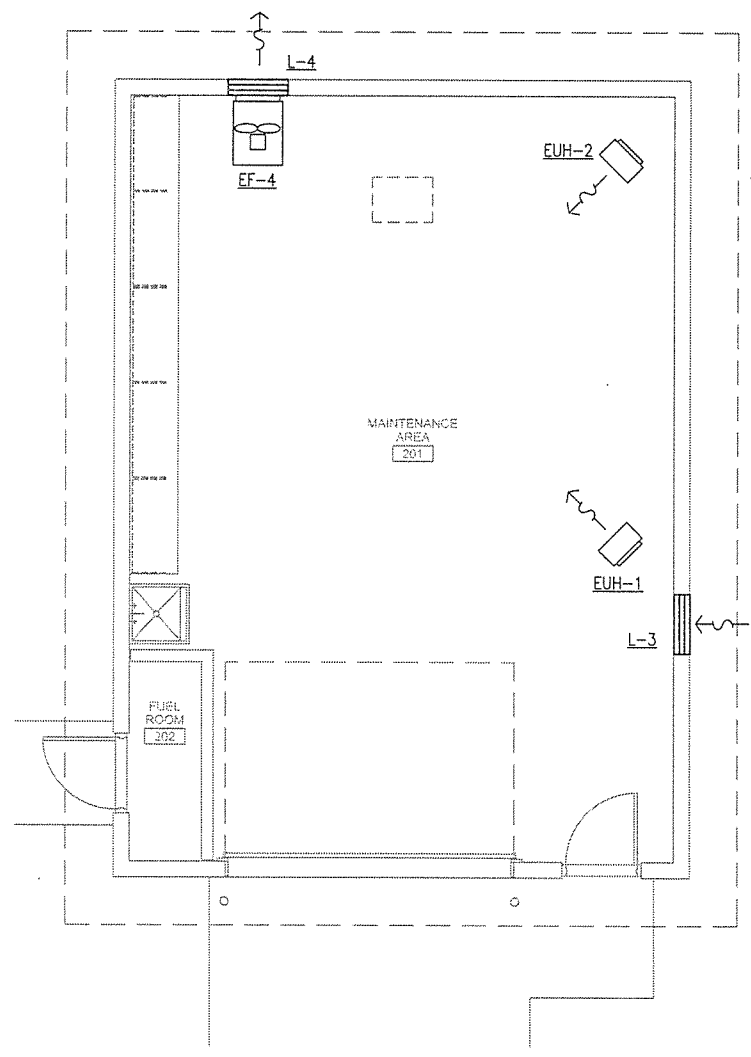
STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 15880
 Ashley R. Pleas
 LEIDOS ENGINEERING, LLC
 No. 813
 ARKANSAS

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER
 MECHANICAL PIPING PLAN

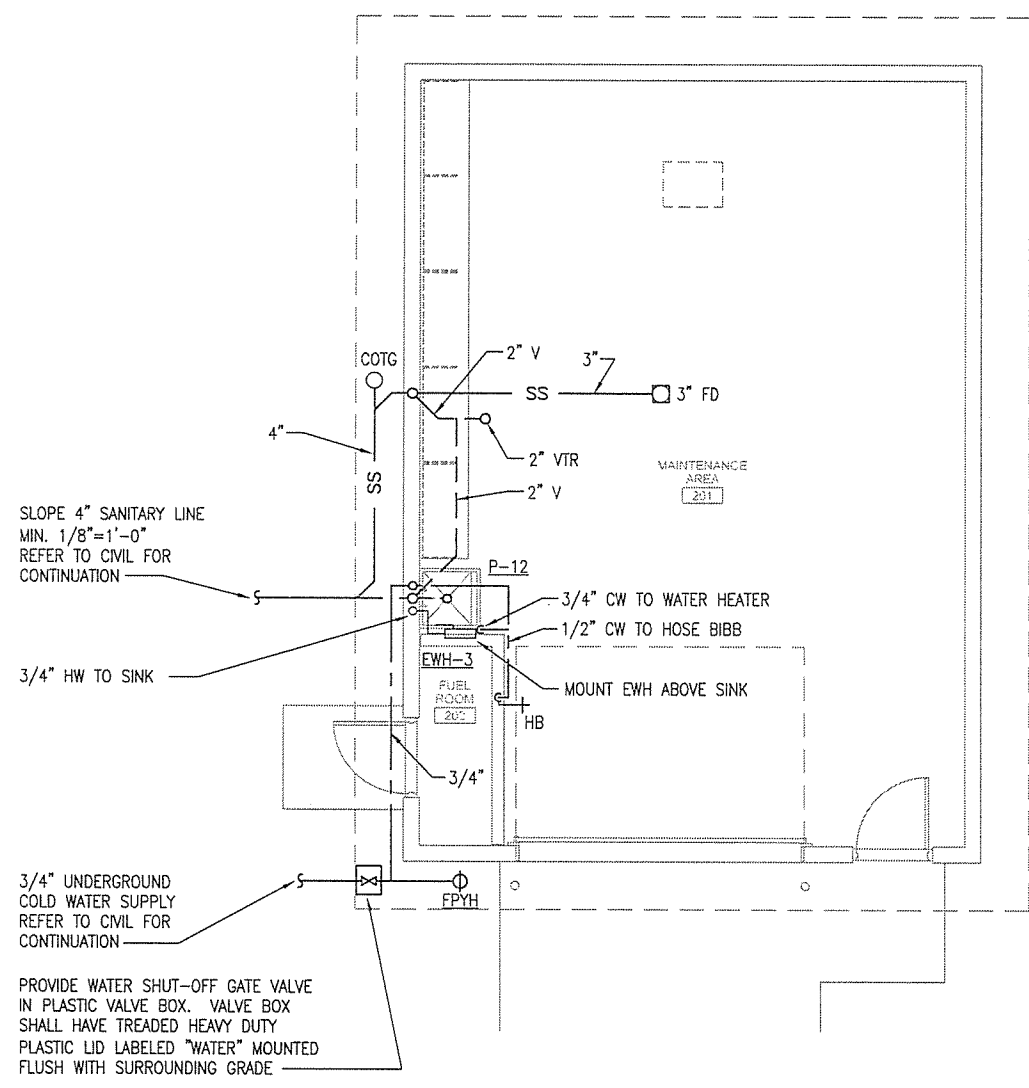
DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	M-102
REV	103 OF 114

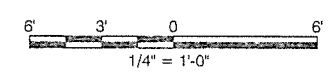
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 Date: September 23, 2015 - 8:48am
 User: zahnern



A MECHANICAL PLAN
 M-103 SCALE: 1/4" = 1'-0"



B PLUMBING PLAN
 M-103 SCALE: 1/4" = 1'-0"



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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 MAINTENANCE BUILDING
 MECHANICAL PLANS

REGISTERED PROFESSIONAL ENGINEER
 LEIDOS
 No. 15880
 Ashley Blanks

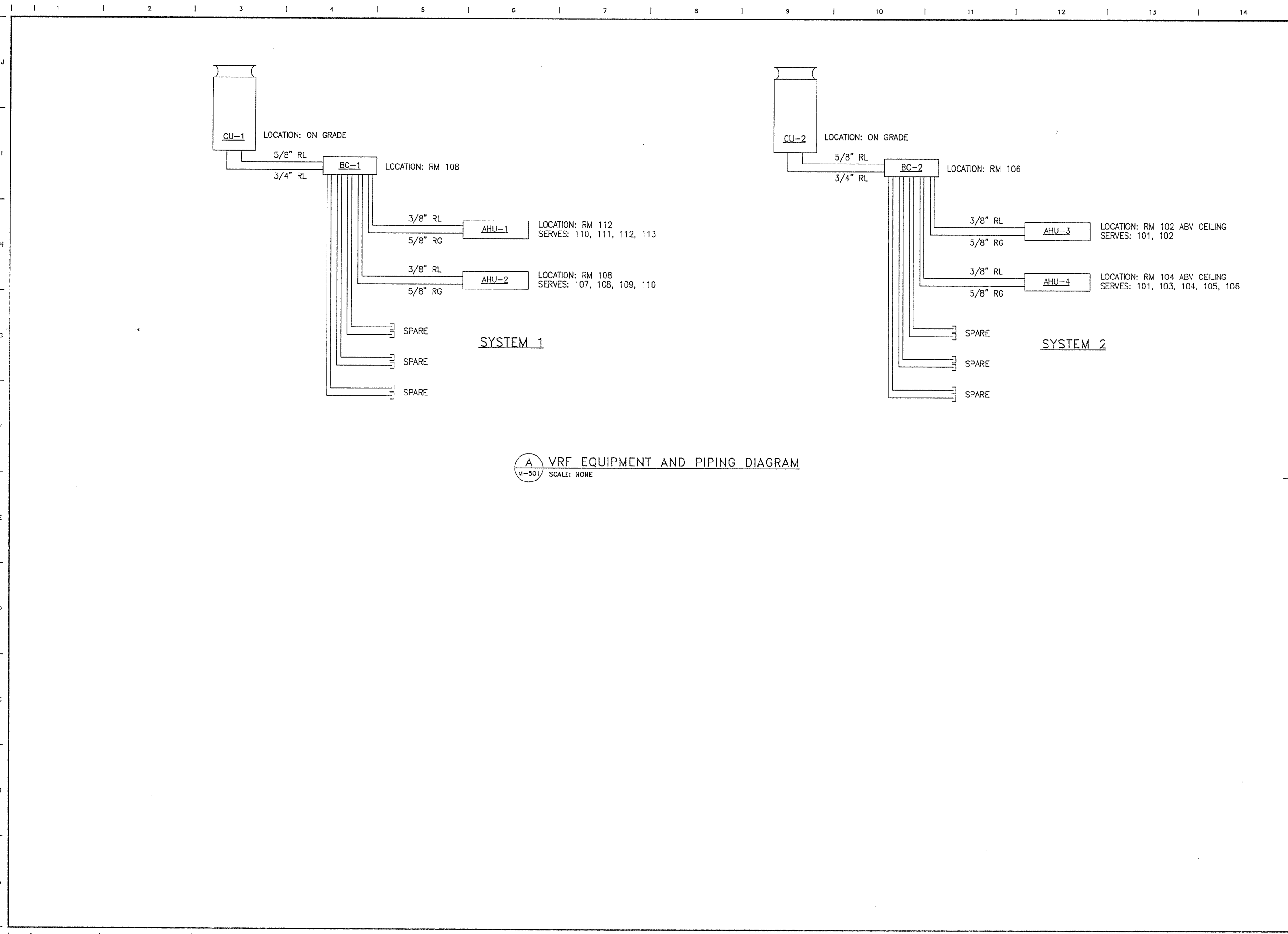
CERTIFICATE OF AUTHORIZATION
 LEIDOS ENGINEERING, LLC
 No. 210
 Arkansas

9/25/15

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	M-103
REV	104 OF 114

File name: Y:\FCD\AA\Highway\Draw\313841 - AHU\Welcome Center\30_DESIGN\40_CAD\AWC_Red River.dwg
 Date: September 22, 2015 - 4:25pm
 User: zahnborn



A VRF EQUIPMENT AND PIPING DIAGRAM
 M-501 SCALE: NONE

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STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 J. Ashley Riley
 No. 15880

STATE OF ARKANSAS
 ENGINEERING LLC
 No. 819

9/25/15

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER

MECHANICAL DETAILS

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	M-501
REV	
105 OF 114	

File name: W:\FD\ARH Highway Data\313841 - ARHTD Welcome Center\20_DESIGN\40_CADD\WC_Red\Rev\MM 601.dwg
 Date: September 22, 2015 - 4:35pm
 User: zahnborn

FAN SCHEDULE					
	EXHAUST				RETURN
MARK	EF-1	EF-2	EF-3	EF-4	RF-1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	SQ-99-VG	SQ-99-VG	SP-110-VG	SE-14-432-VG	SP-A1410
TYPE	INLINE CENTRIFUGAL	INLINE CENTRIFUGAL	CEILING	SIDEWALL	CEILING
LOCATION	SERVICE ROOM	SERVICE ROOM	STAFF TOILET	MAINTENANCE BLD	CORRIDOR
AIRFLOW (CFM)	520	520	110	1500	900
ESP (IN.)	0.5	0.5	0.25	0.25	0.30
FAN RPM	1466	1466	940	1407	1094
HORSEPOWER (HP)	1/4	1/4	8.4 WATTS	1/4	6.3 AMPS
ELECTRICAL (V/PH/HZ)	115/1/60	115/1/60	115/1/60	115/1/60	115/1/60
NOTES	1,2	1,2	3,4	5	2,6

1. INTEGRAL DISCONNECT.
 2. BACK DRAFT DAMPER AND SPRING ISOLATORS.
 3. INTERLOCK WITH TOILET LIGHT SWITCH.
 4. INTEGRAL DISCONNECT SWITCH, ROUND OUTLET COLLAR WITH INTEGRAL BACK DRAFT DAMPER, ALUMINUM GRILLE, CEILING MOUNTED, ROUND HOODED WALL CAP.
 5. WALL MOUNTED SWITCH, LONG WALL HOUSING W/ OSHA GUARD, MOTORIZED DAMPER.
 6. INSULATED HOUSING, ALUMINUM GRILLE

GRILLE AND REGISTER SCHEDULE					
MARK	A	B	C	D	E
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL	OMNI	50F	272FS	3FL	CT-541
APPLICATION	SUPPLY	RETURN	SUPPLY	RETURN/EXHAUST	SUPPLY
FACE SIZE	24X24	24X12	SEE PLANS	SEE PLANS	SEE PLANS
CONSTRUCTION	STEEL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
MOUNTING	LAY-IN	LAY-IN	SURFACE/LAY-IN	SURFACE/LAY-IN	SURFACE
NOTES	1,2	1	3,5	3,5	4

1. MANUFACTURER'S STANDARD OFF-WHITE FINISH.
 2. DUCT RUNOUT SIZE SHALL MATCH DIFFUSER NECK SIZE. SEE PLANS FOR NECK SIZES.
 3. AT TOILET ROOMS PAINT TO MATCH SURFACE, COORDINATE WITH ARCHITECT.
 4. ALUMINUM FINISH, 15° DEFLECTION UP, NOMINAL 5" DUCT WIDTH.
 5. OPPOSED BLADE DAMPER.

LOUVER SCHEDULE				
MARK	L-1	L-2	L-3	L-4
MANUFACTURER	RUSKIN	RUSKIN	RUSKIN	RUSKIN
MODEL	ELF375	ELF375	ELF375	ELF375
SERVICE	TOILET EXHAUST	TOILET EXHAUST	MAINTENANCE INTAKE	MAINTENANCE EXHAUST
SIZE (IN.)	24X18	24X18	30X24	30X24
FLOW RATE (CFM)	965	965	1500	1500
FREE AREA (SQ. FT.)	1.03	1.03	1.99	1.99
PRESSURE DROP (IN. W.G.)	0.13	0.13	0.09	0.09
DAMPER TYPE	GRAVITY	GRAVITY	GRAVITY	GRAVITY
NOTES	1	1	1	1

1. EXTRUDED ALUMINUM LOUVER, 4" DEEP WITH BIRD SCREEN. BAKED ENAMEL FINISH, COLOR SELECTION BY ARCHITECT.

ELECTRIC UNIT HEATER SCHEDULE		
MARK	EUH-1	EUH-2
MANUFACTURER	MARKEL	MARKEL
MODEL	H1HUH5	H1HUH5
LOCATION	MAINTENANCE AREA	MAINTENANCE AREA
HEAT OUTPUT (KW)	5	5
POWER (V/PH/HZ)	230/1/60	230/1/60
TOTAL AMP LOAD	21	21
AIRFLOW (CFM)	400	400
MOUNTING HEIGHT (FT. AFF)	8'-0"	8'-0"
NOTES	1	1

1. UNIT MOUNTED DISCONNECT AND THERMOSTAT WITH WALL MOUNTING BRACKET.

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER

MECHANICAL SCHEDULES

STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 15880
 J. Ashby Rife

CERTIFICATE OF AUTHORIZATION
 LEIDOS ENGINEERING, LLC
 No. 819

9/25/15

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	M-601
REV	
106 OF 114	

MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE

Tag Reference	Model Number	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/SEER	Heating COP @ 47°F [HSPF]	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Max Pipe Length from BC or 1st Joint (feet)	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Sound Pressure (dBA)	Inverter Driven Compressor Type / Quantity	Voltage / Phase	Electrical-Per Module		Notes / Options
																MCA 208/230	MCCP	
CU-1	PURY-P72TLMU-A	72,000.0	80,000.0	28.1 / 14.8	4.3	66.7%	99.0	13.6	0.0	5/8 / 3/4	48,000.0	51,300.0	58	SCROLL/1	208/230V / 3-phase 3-wire	24/22	35/35	1, 2, 3, 4, 5
CU-2	PURY-P72TLMU-A	72,000.0	80,000.0	28.1 / 14.8	4.3	116.7%	99.0	13.6	0.0	5/8 / 3/4	73,628.2	55,029.2	58	SCROLL/1	208/230V / 3-phase 3-wire	24/22	35/35	1, 2, 3, 4, 5

Notes & Options:

- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
- For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
- Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

MITSUBISHI CITY MULTI VRF INDOOR UNIT SCHEDULE

Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity				Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Refrig Pipe Dim Liquid/Suction (inch)	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	Electrical MCA/MFS	Notes / Options	
							Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)												Heating Capacity (BTU/h)
AHU-1	PEFY-P24NMHU-E2	Ceiling concealed type (ducted)	24,000.0	27,000.0	80.0/67.0	70.0	FULL DEMAND	24,000.0	16,549.8	FULL DEMAND	25,650.0	56.7	105.4	3/8 / 5/8	671	1.0/1.0	40-46	208/230V/1-phase	0.330/0.320	0.310/0.300	2.11(208V)/1.83(230V)	1, 2, 3, 4, 5, 6
AHU-2	PEFY-P24NMHU-E2	Ceiling concealed type (ducted)	24,000.0	27,000.0	80.0/67.0	70.0	FULL DEMAND	24,000.0	16,549.8	FULL DEMAND	25,650.0	56.7	105.4	3/8 / 5/8	671	1.0/1.0	40-46	208/230V/1-phase	0.330/0.320	0.310/0.300	2.11(208V)/1.83(230V)	1, 2, 3, 4, 5, 6
AHU-3	PEFY-P48NMHU-E2	Ceiling concealed type (ducted)	48,000.0	54,000.0	80.0/67.0	70.0	FULL DEMAND	42,073.2	30,242.0	FULL DEMAND	31,612.5	58.7	91.8	3/8 / 5/8	1342	1.0/1.0	40-46	208/230V/1-phase	0.620/0.610	0.600/0.590	4.16(208V)/3.67(230V)	1, 2, 3, 4, 5, 6
AHU-4	PEFY-P36NMHU-E2	Ceiling concealed type (ducted)	36,000.0	40,000.0	80.0/67.0	70.0	FULL DEMAND	31,554.9	26,068.7	FULL DEMAND	23,416.7	61.7	86.2	3/8 / 5/8	1342	1.0/1.0	40-46	208/230V/1-phase	0.620/0.610	0.600/0.590	4.16(208V)/3.67(230V)	1, 2, 3, 4, 5, 6

Notes & Options:

- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
- See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
- Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
- Base heating corrected capacity on full demand.

VRF HEAT RECOVERY BRANCH CIRCUIT CONTROLLER

Tag Reference	Model Number	Type (double / Main / Sub)	Number of Ports	Connected Capacity to BC	Voltage / Phase	MCA 208/230	Notes / Options
BC-1	CMB-P105NU-G	Single	5	48,000.0	208/230V/1-phase	0.44 / 0.40	1, 2
BC-2	CMB-P105NU-G	Single	5	84,000.0	208/230V/1-phase	0.44 / 0.40	1, 2

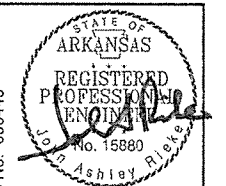
Notes & Options:

- Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.
- Connected Capacity to BC should not exceed 189,000 BTU/h for double BCs and 126,000 BTU/h for Sub BCs.



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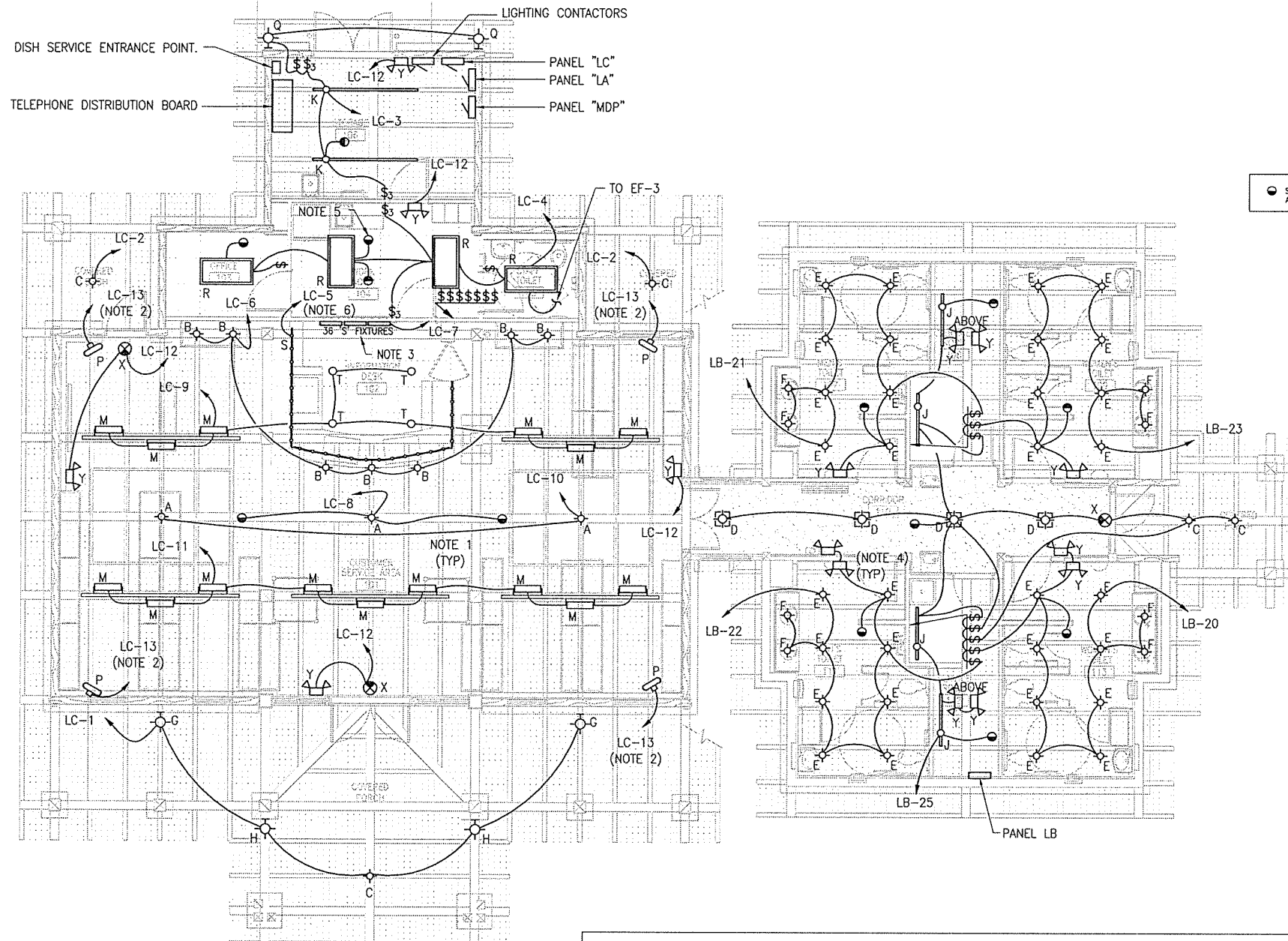
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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
 ARKANSAS WELCOME CENTER
 RED RIVER

DESIGNED BY	MJZ
DRAWN BY	MJZ
CHECKED BY	JAR
APPROVED BY	JAR

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	M-602
REV	
107 OF 114	



A LIGHTING PLAN
E-101 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

- ALL MOUNTING HEIGHTS MEASURE TO BOTTOM OF FIXTURE.
- DO NOT ROUTE MORE THAN THREE (3) BRANCH CIRCUITS IN ANY SINGLE CONDUIT.
- PROVIDE EQUIPMENT GROUND CONDUCTOR IN ALL RACEWAYS INCLUDING THOSE CONTAINING SWITCH CONDUCTORS.

LIGHTING NOTES:

- ALL FIXTURES IN THE CUSTOMER SERVICE AREA AND COVERED PORCH ARE CONTROLLED BY SWITCHES LOCATED IN THE WORK ROOM.
- WALL MOUNTED FANS ARE TO BE POWERED FROM THE SAME CIRCUIT. FURNISH AND INSTALL OPTIONAL REMOTE CONTROL FOR FANS TO ALLOW FOR INDEPENDENT OPERATION OF EACH FAN.
- LIGHT BOX CONTAINS 36 TYPE "S" FIXTURES AND IS CONTROLLED BY A SWITCH LOCATED IN THE WORK ROOM. USE FLEXIBLE CORD OR CONDUIT WHERE REQ'D. REFERENCE DETAILS ON A-410.
- RUN UNSWITCHED HOT CONDUCTOR TO BATTERY-OPERATED EMERGENCY FIXTURES, EXIT SIGNS, AND SMOKE DETECTORS. TYPICAL THROUGHOUT.
- MOUNT (1) SMOKE DETECTOR UNDER BUILDING ROOF ON RAFTER AND (1) SMOKE DETECTOR BELOW CEILING OF WORK ROOM.
- TYPE "S" FIXTURES ARE MOUNTED IN THE KICK COVE OF RECEPTION DESK. PROVIDE JUMPER CABLES AS REQUIRED. REFERENCE DETAILS ON A-406.

LIGHTING FIXTURE SCHEDULE											
TYPE	MFG.	MODEL	DESCRIPTION	MOUNTING		LAMPS		VOLTS	FINISH	NOTES	
				TYPE	HEIGHT	NO.	WATTS				
A	AVALANCHE RANCH LIGHT CO.	A41305FC-27	WISLEY CHANDELIER OVAL - MAPLE LEAF	CHAIN	11'-6"	12	6	LED CANDLE	120	WALNUT BROWN	
B	AVALANCHE RANCH LIGHT CO.	A20105-02-ST	MINI-PENDANT MAPLE	PENDANT	8'-0"	1	10	LED 2700K	120	RUST PATINA	NOTE 1
C	CRAFTSMAN OUTDOOR LIGHTING	11F	HANGING 30"X18" BRONZE W/ HONEY GLASS	CHAIN	9'-0"	1	16	LED 2700K	120	OLD BRONZE W/ HONEY GLASS	
D	CRAFTSMAN OUTDOOR LIGHTING	11D	HANGING 20"X12" BRONZE W/ HONEY GLASS	CHAIN	9'-0"	1	16	LED 2700K	120	OLD BRONZE W/ HONEY GLASS	NOTE 7
E	KICHLER LIGHTING	27130B	16" SEASIDE PENDANT	PENDANT	10'-0"	1	16	LED 2700K	120	OLDE BRICK	NOTE 3
F	LITHONIA	DOM6 LED 900L 35K 120 D06	6" DOWNLIGHT	RECESSED	CLG / SOFFIT	1	25	LED 3500K	120	-	NOTE 3
G	CRAFTSMAN OUTDOOR LIGHTING	6C	17"X14" BRONZE W/ HONEY GLASS	WALL	8'-6"	1	16	LED 2700K	120	OLD BRONZE W/ HONEY GLASS	NOTE 2
H	CRAFTSMAN OUTDOOR LIGHTING	6A	8"X8" BRONZE W/ HONEY GLASS	WALL	8'-0"	1	10	LED 2700K	120	OLD BRONZE W/ HONEY GLASS	NOTE 2
J	LITHONIA	ZL1N L48 5000LM L/LENS MVOLT 40K 80 CRI WH	4' LED STRIP W/ WIRE GUARD	SUSPENDED	SEE NOTES	1	42	LED 4000K	120	-	NOTE 5
K	LITHONIA	TZL1N L96 10000LM L/LENS MVOLT 40K 80 CRI WH	8' TANDEM LED STRIP W/ WIRE GUARD	SURFACE	SEE NOTES	1	84	LED 4000K	120	-	NOTE 4
M	CREE	FLO-OL-40-02-14-D-UL-BK-700-35K-DIM	ROTATABLE, 2' LED, 40 DEGREE FLOOD LIGHT	TOP OF BEAM	~14'-3"	1	66	LED 3500K	120	BLACK	
P	FANIMATION	FPH210RS	3 SPEED FAN	WALL	11'-6"	-	-	-	120	RUST FINISH	NOTES 2,6
Q	KIM LIGHTING	SW3/36LSKUV/DB	EXTERIOR WALL MOUNT	WALL	10'-0"	1	36	LED 5100K	120	-	
R	LITHONIA	2GTL 4 30L EZ1 LP835	2'X4' LENSED LED LAY-IN	LAY-IN CLG	-	1	32	LED 3500K	120	-	
S	PHILIPS LIGHTOLIER	CWL271212	LED COVE LIGHT	N/A	VARIABLE	1	3	LED 2700K	120	-	NOTE 8
X	LITHONIA	LRP W 1 RC 120/277	EDGE LIT LED EXT SIGN	WALL	8'-0"	1	2.3	LED	120	WHITE MOUNT, RED LETTERS	
Y	PHILIPS CHLORIDE	SEM B IC T	SPLENDORE LED EMER. WALL LIGHT	WALL	8'-0"	1	4	LED	120	BLACK	

NOTES:

- 8'-0" AT COFFEE BAR AND DATA DESK, 8'-0" AT CUSTOMER SERVICE DESK.
- MOUNTING HEIGHT IS TO CENTER LINE OF J-BOX OR MOUNTING BRACKET.
- UL LISTED FOR DAMP LOCATIONS.
- PROVIDE SUPPLEMENTAL UNISTRUT SUPPORT FOR EACH FIXTURE. PROVIDE TWO 48" WIREGUARDS (#WG248).
- MOUNT AT BOTTOM EDGE OF MECHANICAL EQUIPMENT. PROVIDE 10' AIRCRAFT CABLE (#2ACVH) & 48" WIREGUARD (#WG248).
- PROVIDE FPH51RS WALL MOUNT BRACKET
- HANG TIGHT TO CEILING
- COORDINATE MOUNTING WITH INFO DESK DETAILS AND PHOTO DISPLAY DETAILS. PROVIDE JUMPER CABLES AS REQUIRED.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 15988
M. B. LOCHHEAD
LEIDOS ENGINEERING, LLC
No. 519
CERTIFICATE OF AUTHORIZATION
AR 030449

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT
Job No. 030449
9/25/15
ARKANSAS WELCOME CENTER
RED RIVER
LIGHTING PLAN

DESIGNED BY DBL
DRAWN BY KAL
CHECKED BY BRC
APPROVED BY DBL

DATE 9/25/2015
SCALE AS SHOWN
LEIDOS PROJECT NUMBER
313841
SHEET E-101 | REV 0
108 OF 114

SECURITY CAMERA SYSTEM NOTES

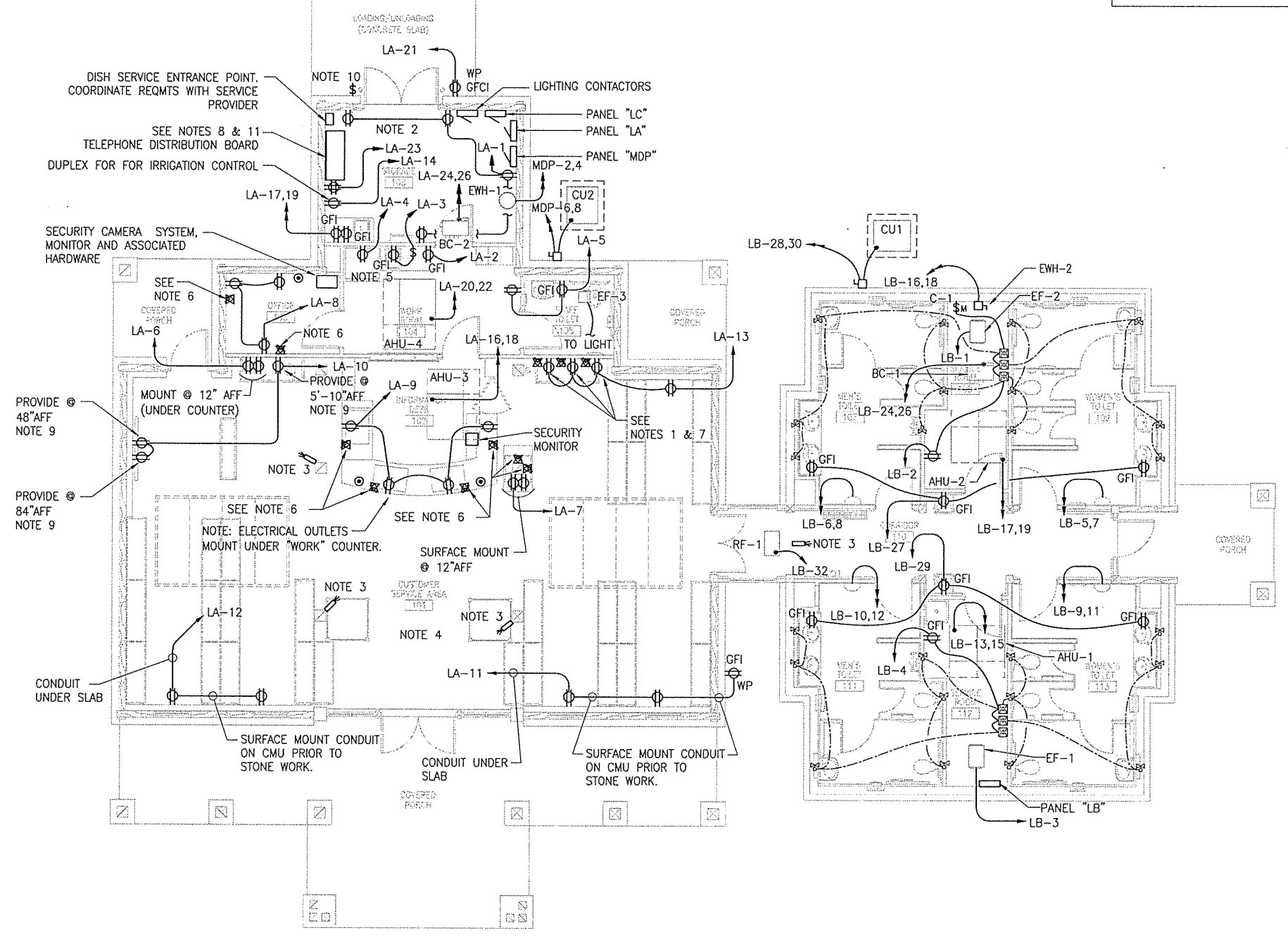
1. SYSTEM SHALL HAVE MINIMUM ONE WEEK RECORDING CAPABILITY.
2. SYSTEM SHALL HAVE CAPABILITY OF BEING MONITORED REMOTELY OVER THE INTERNET.
3. REF. SPECIFICATIONS FOR ALLOWANCE FOR SECURITY CAMERA SYSTEM EQUIPMENT AND INSTALLATION.

POWER PLAN LEGEND

- WP WEATHER PROOF
- W WALL MOUNT 44" AFF EXCEPT AS NOTED.
- FM FLOOR MOUNT
- ⊕ DUPLEX CONVENIENCE OUTLET (5-20R)
- GFI ⊕ GROUND FAULT INTERRUPT RECEPT.
- ⊕ QUADPLEX RECEPTACLE OUTLET
- ⊕ JUNCTION BOX
- ⊕ SINGLE POLE TOGGLE SW, 20A, 120/277V
- ⊕ 3 WAY TOGGLE SW, 20A, 120/277V
- △ TELEPHONE OUTLET
- ⊕ COMBINATION DATA/PHONE OUTLET
- ⊕ CLOSED CIRCUIT TV (CCTV)
- ⊕ THERMOSTAT
- ⊕ DISCONNECT SWITCH, NON-FUSED
- ⊕ SECURITY CAMERA
- ⊕ TRANSFORMER - FURN BY MECH.
- ⊕ SOLENOID VALVE - FURN BY MECH.

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GENERAL NOTES:

1. TO ILLUSTRATE A TYPICAL CASE, CERTAIN CONDUIT HAS BEEN IDENTIFIED ON THE DRAWING AS "CONDUIT UNDER SLAB". NOT EVERY SECTION OF SUCH CONDUIT HAS BEEN EXPLICITLY REFERENCED. THE GENERAL RULE IS, IF THE CONDUIT CANNOT BE COMPLETELY HIDDEN FROM VIEW, RUN IT UNDER SLAB. EXCEPTIONS ARE IN THE STORAGE ROOM 106 AND SERVICE ROOMS 108 AND 112, WHERE EXPOSED CONDUIT IS ACCEPTABLE.
2. REFER TO EQUIPMENT SCHEDULE ON E-601 FOR SPECIFIC CIRCUIT AND DISCONNECT INFORMATION. NOT ALL DISCONNECTS / MSW'S ARE SHOWN ON THIS SHEET.

REFERENCED NOTES:

1. THREE (3) CONVENIENCE OUTLETS ABOVE TABLE TOP. MOUNT BOTTOM OF OUTLET @ 3'-2" AFF. THREE (3) DATA OUTLETS SHALL BE MOUNTED AT SAME ELEVATION ALONGSIDE POWER OUTLETS. SEE NOTE 7 BELOW.
2. EXPOSED CONDUIT PERMITTED SERVICE ROOMS AND STORAGE ROOM.
3. PROVIDE SECURITY CAMERA AT LOCATIONS SHOWN TO COVER MAIN BUILDING ENTRANCE AND TOILET BLOCK ENTRANCE. PROVIDE 1" CONDUIT WITH PULLWIRE FROM CAMERA BACK TO OFFICE 103 WHERE MONITORING EQUIPMENT IS LOCATED.
4. OUTLETS LOCATED THROUGHOUT THE CUSTOMER SERVICE AREA, SHALL HAVE COVER PLATES WITH BRUSHED BRASS FINISH.
5. REFER TO ARCHITECTURAL DRAWING A-405 FOR KITCHEN ELEVATION AND EQUIPMENT IDENTIFICATION. ONE (1) RECEPTACLE SHOWN MOUNTED ABOVE COUNTER SHALL BE INSTALLED IN APPROXIMATE AREA SHOWN. RECEPTACLE FOR DISPOSAL SHALL BE MOUNTED BELOW SINK. ONE (1) ADDITIONAL RECEPTACLE - FOR MICROWAVE, SHALL BE INSTALLED 3" ABOVE BACKSPLASH.
6. IN LOCATIONS SHOWN (TYPICAL OF 8), FURNISH AND INSTALL DEVICES SPECIFIED WITH (1) RJ45 JACK (DATA) IN UPPER POSITION AND (1) RJ11 JACK (PHONE) IN LOWER POSITION OF COVER PLATE. FURNISH AND INSTALL CAT 5e CABLES FROM EACH JACK BACK TO TELEPHONE DISTRIBUTION BOARD. USE 1-1/2" CONDUIT ROUTED UNDERFLOOR. USE 568-B WIRING STANDARD.
7. IN LOCATIONS SHOWN (TYPICAL OF 3), FURNISH AND INSTALL DEVICES SPECIFIED WITH (1) RJ45 JACK (DATA) IN CENTER OF COVER PLATE. FURNISH AND INSTALL CAT 5e CABLE FROM EACH JACK BACK TO TELEPHONE DISTRIBUTION BOARD. USE 1" CONDUIT ROUTED UNDERFLOOR. USE 568-B WIRING STANDARD.
8. FURNISH AND INSTALL AN 18" D x 48" W SHELF FOR MOUNTING OF TELECOM EQUIPMENT (DONE BY OTHERS). MOUNT SHELF ABOVE TELEPHONE DISTRIBUTION BOARD.
9. FURNISH AND INSTALL COAX CONNECTIONS FOR TV INSTALLATIONS ALONGSIDE RECEPTACLES IN AREA NOTED. PROVIDE 1-1/2" CONDUIT ROUTED BELOW FLOOR TO COUNTER WHERE DISH RECEIVERS ARE MOUNTED. ALSO PROVIDE 1-1/2" CONDUIT FROM THE RECEIVER LOCATION BACK TO THE DISH SERVICE ENTRANCE POINT. THIS CONDUIT SHALL ALSO BE ROUTED BELOW FLOOR. FURNISH AND INSTALL COAX CABLE COMPATIBLE WITH SERVICE PROVIDER'S EQUIPMENT.
10. FURNISH AND INSTALL BROAN (OR EQUAL) RC533 PILOT LONG RANGE WIRELESS DOORBELL. MOUNT PUSH-BUTTON AT 48" ABOVE FLOOR AT REAR DOOR AND DOORBELL AT 78" A.F.F. AT DOOR ACROSS FROM KITCHEN EQUIPMENT.
11. AT TELECOM SHELF, CONTRACTOR TO PROVIDE MINIMUM 16 PORT PATCH PANEL FOR CABLE CONNECTIONS. TEN (10) PORTS SHALL BE LABELED FOR 'STATE' AND SIX (6) FOR 'PUBLIC'.

A POWER PLAN
 E-102 SCALE: 3/16" = 1'-0"

ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

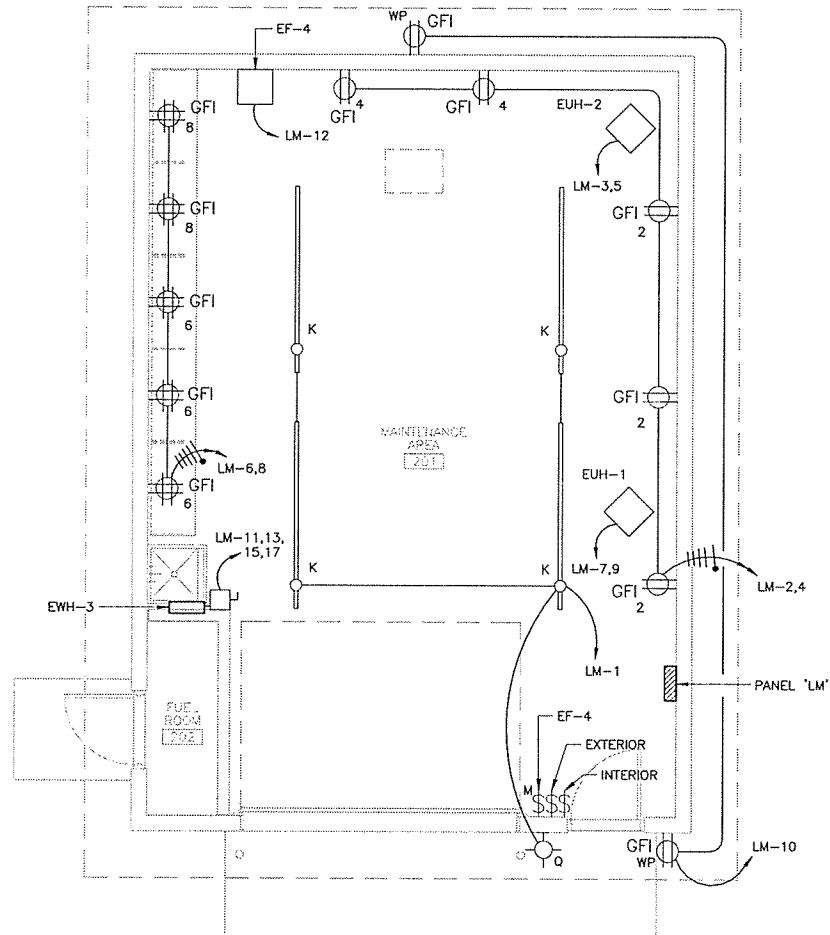
REGISTERED PROFESSIONAL ENGINEER
 DIANA B. LOCHAKE
 No. 15958
 9/25/15
 LEIDOS ENGINEERING, LLC
 No. 519
 ARKANSAS

POWER PLAN

DESIGNED BY	DBL
DRAWN BY	KAL
CHECKED BY	BRC
APPROVED BY	DBL

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	E-102
REV	0
109 OF 114	

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A MAINTENANCE LIGHTING & POWER
 E-103 SCALE: 1/4" = 1'-0" NORTH

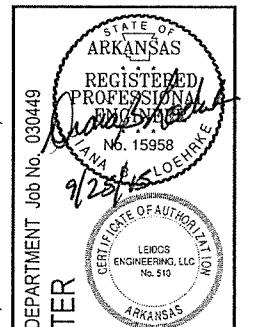
GENERAL NOTES

- A. REFER TO SHEET E-102 FOR GENERAL NOTES AND POWER LEGENDS.
- B. REFER TO SHEET E-101 FOR LIGHTING FIXTURE SCHEDULE AND E-601 FOR PANEL SCHEDULES.
- C. REFER TO EQUIPMENT SCHEDULE ON E-601 FOR SPECIFIC CIRCUIT AND DISCONNECT INFORMATION. NOT ALL DISCONNECTS ARE SHOWN ON THIS SHEET.
- D. REFER TO MECHANICAL FOR EXHAUST FAN CONTROL.



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0	9/25/2015				



ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER

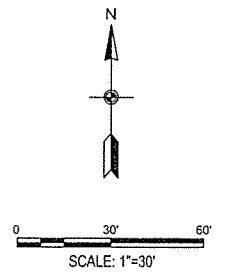
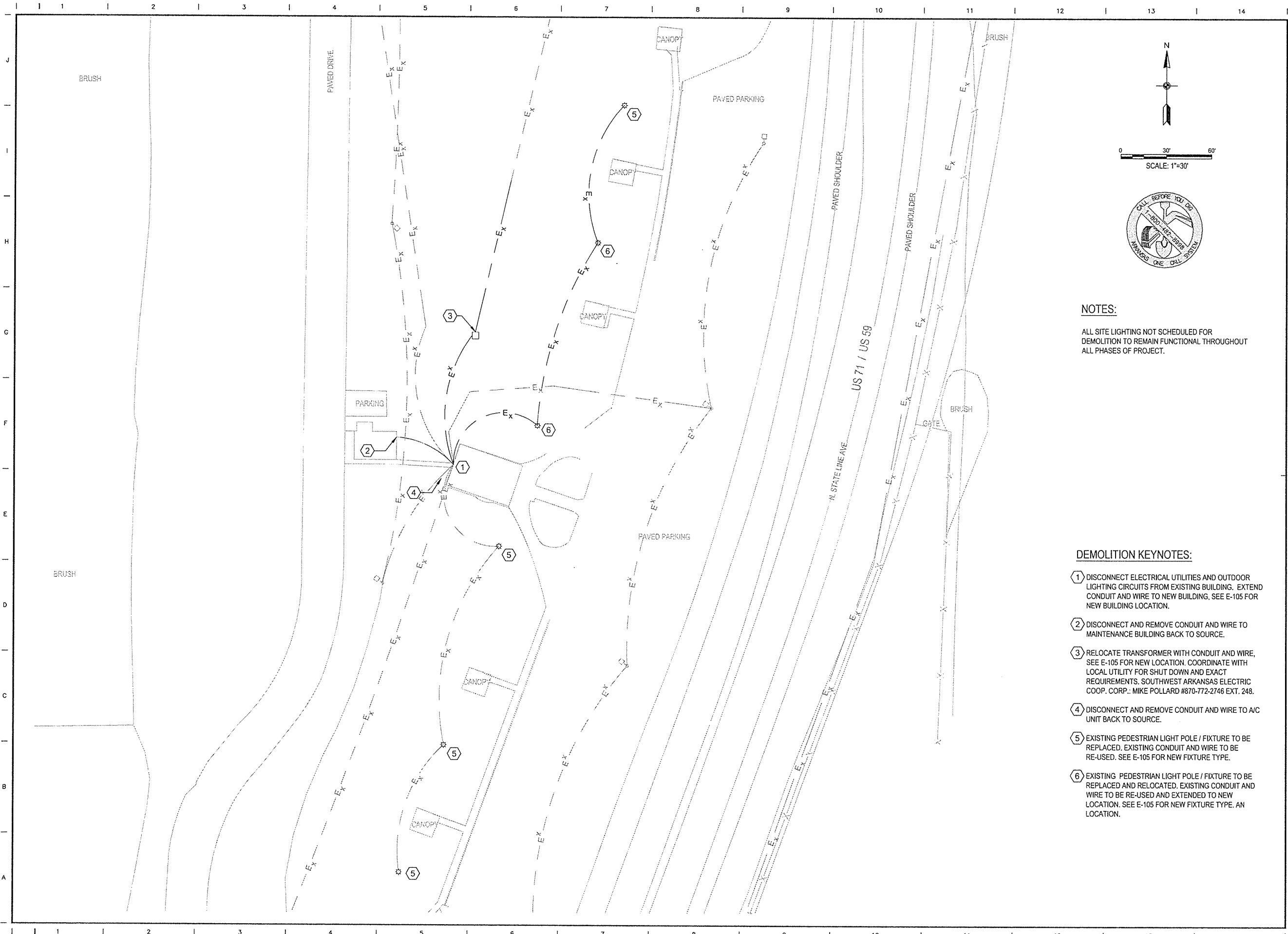
**MAINTENANCE BUILDING
 POWER & LIGHTING PLAN**

DESIGNED BY	DBL
DRAWN BY	KAL
CHECKED BY	BRC
APPROVED BY	DBL

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841

SHEET	E-103	REV	0
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 Date: September 23, 2015 - 8:55am
 User: lbaek



NOTES:
 ALL SITE LIGHTING NOT SCHEDULED FOR DEMOLITION TO REMAIN FUNCTIONAL THROUGHOUT ALL PHASES OF PROJECT.

- DEMOLITION KEYNOTES:**
- ① DISCONNECT ELECTRICAL UTILITIES AND OUTDOOR LIGHTING CIRCUITS FROM EXISTING BUILDING. EXTEND CONDUIT AND WIRE TO NEW BUILDING. SEE E-105 FOR NEW BUILDING LOCATION.
 - ② DISCONNECT AND REMOVE CONDUIT AND WIRE TO MAINTENANCE BUILDING BACK TO SOURCE.
 - ③ RELOCATE TRANSFORMER WITH CONDUIT AND WIRE, SEE E-105 FOR NEW LOCATION. COORDINATE WITH LOCAL UTILITY FOR SHUT DOWN AND EXACT REQUIREMENTS. SOUTHWEST ARKANSAS ELECTRIC COOP. CORP.: MIKE POLLARD #870-772-2746 EXT. 248.
 - ④ DISCONNECT AND REMOVE CONDUIT AND WIRE TO A/C UNIT BACK TO SOURCE.
 - ⑤ EXISTING PEDESTRIAN LIGHT POLE / FIXTURE TO BE REPLACED. EXISTING CONDUIT AND WIRE TO BE RE-USED. SEE E-105 FOR NEW FIXTURE TYPE.
 - ⑥ EXISTING PEDESTRIAN LIGHT POLE / FIXTURE TO BE REPLACED AND RELOCATED. EXISTING CONDUIT AND WIRE TO BE RE-USED AND EXTENDED TO NEW LOCATION. SEE E-105 FOR NEW FIXTURE TYPE. AN LOCATION.

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ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
 RED RIVER
 ELECTRICAL SITE DEMOLITION PLAN

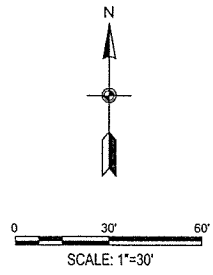
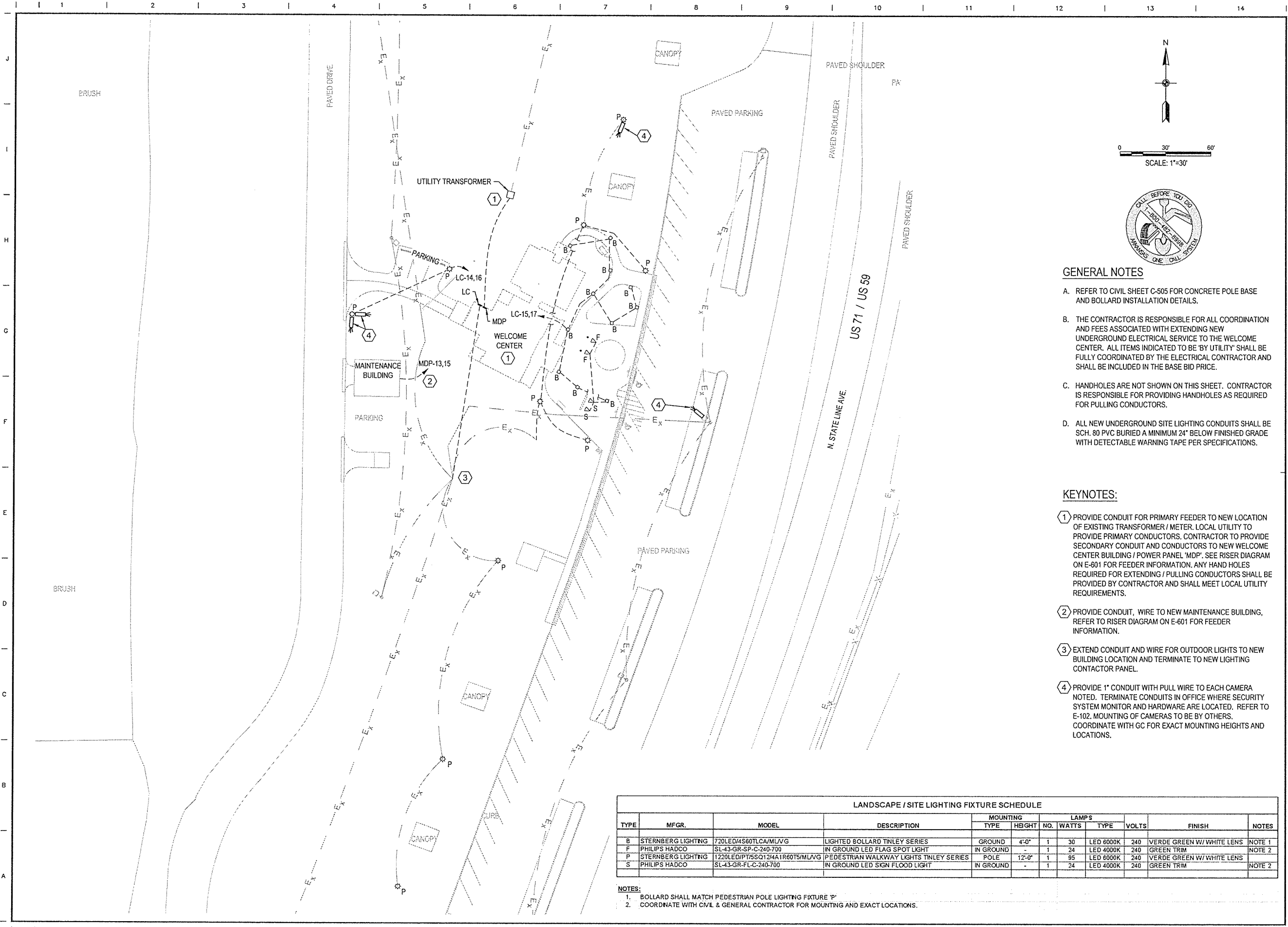
STATE OF ARKANSAS
 REGISTERED PROFESSIONAL ENGINEER
 No. 15998
 9/25/2015

STATE OF ARKANSAS
 CERTIFICATE OF AUTHORITY
 LEIDOS ENGINEERING, LLC
 No. 510
 ARKANSAS

DESIGNED BY	DBL
DRAWN BY	KAL
CHECKED BY	BRC
APPROVED BY	DBL

DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	E-104
REV	0
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GENERAL NOTES

- A. REFER TO CIVIL SHEET C-505 FOR CONCRETE POLE BASE AND BOLLARD INSTALLATION DETAILS.
- B. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION AND FEES ASSOCIATED WITH EXTENDING NEW UNDERGROUND ELECTRICAL SERVICE TO THE WELCOME CENTER. ALL ITEMS INDICATED TO BE 'BY UTILITY' SHALL BE FULLY COORDINATED BY THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE BASE BID PRICE.
- C. HANDHOLES ARE NOT SHOWN ON THIS SHEET. CONTRACTOR IS RESPONSIBLE FOR PROVIDING HANDHOLES AS REQUIRED FOR PULLING CONDUCTORS.
- D. ALL NEW UNDERGROUND SITE LIGHTING CONDUITS SHALL BE SCH. 80 PVC BURIED A MINIMUM 24" BELOW FINISHED GRADE WITH DETECTABLE WARNING TAPE PER SPECIFICATIONS.

KEYNOTES:

- 1 PROVIDE CONDUIT FOR PRIMARY FEEDER TO NEW LOCATION OF EXISTING TRANSFORMER / METER. LOCAL UTILITY TO PROVIDE PRIMARY CONDUCTORS. CONTRACTOR TO PROVIDE SECONDARY CONDUIT AND CONDUCTORS TO NEW WELCOME CENTER BUILDING / POWER PANEL 'MDP'. SEE RISER DIAGRAM ON E-801 FOR FEEDER INFORMATION. ANY HAND HOLES REQUIRED FOR EXTENDING / PULLING CONDUCTORS SHALL BE PROVIDED BY CONTRACTOR AND SHALL MEET LOCAL UTILITY REQUIREMENTS.
- 2 PROVIDE CONDUIT, WIRE TO NEW MAINTENANCE BUILDING. REFER TO RISER DIAGRAM ON E-601 FOR FEEDER INFORMATION.
- 3 EXTEND CONDUIT AND WIRE FOR OUTDOOR LIGHTS TO NEW BUILDING LOCATION AND TERMINATE TO NEW LIGHTING CONTACTOR PANEL.
- 4 PROVIDE 1" CONDUIT WITH PULL WIRE TO EACH CAMERA NOTED. TERMINATE CONDUITS IN OFFICE WHERE SECURITY SYSTEM MONITOR AND HARDWARE ARE LOCATED. REFER TO E-102. MOUNTING OF CAMERAS TO BE BY OTHERS. COORDINATE WITH GC FOR EXACT MOUNTING HEIGHTS AND LOCATIONS.

LANDSCAPE / SITE LIGHTING FIXTURE SCHEDULE											
TYPE	MFR.	MODEL	DESCRIPTION	MOUNTING			LAMPS		FINISH	NOTES	
				TYPE	HEIGHT	NO.	WATTS	TYPE			VOLTS
B	STERNBERG LIGHTING	720LED/MS60TLCA/MLVG	LIGHTED BOLLARD TINLEY SERIES	GROUND	4'-0"	1	30	LED 6000K	240	VERDE GREEN W/ WHITE LENS	NOTE 1
F	PHILIPS HADCO	SL-43-GR-SP-C-240-700	IN GROUND LED FLAG SPOT LIGHT	IN GROUND	-	1	24	LED 4000K	240	GREEN TRIM	NOTE 2
P	STERNBERG LIGHTING	1220LED/PT75SQ124A1R60T5/MLVG	PEDESTRIAN WALKWAY LIGHTS TINLEY SERIES	POLE	12'-0"	1	95	LED 6000K	240	VERDE GREEN W/ WHITE LENS	NOTE 2
S	PHILIPS HADCO	SL-43-GR-FL-C-240-700	IN GROUND LED SIGN FLOOD LIGHT	IN GROUND	-	1	24	LED 4000K	240	GREEN TRIM	NOTE 2

- NOTES:**
- 1. BOLLARD SHALL MATCH PEDESTRIAN POLE LIGHTING FIXTURE 'P'
 - 2. COORDINATE WITH CIVIL & GENERAL CONTRACTOR FOR MOUNTING AND EXACT LOCATIONS.

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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARKANSAS WELCOME CENTER
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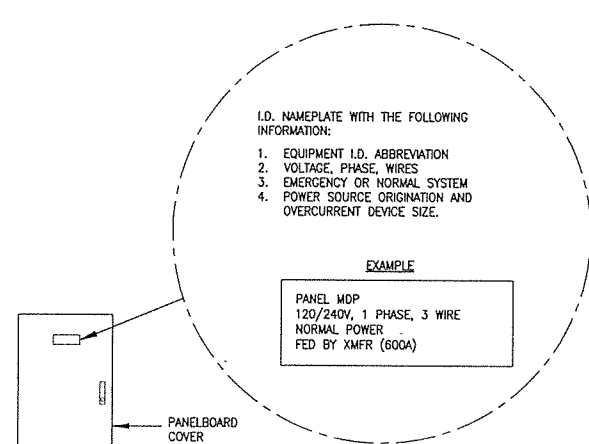
REGISTERED PROFESSIONAL ENGINEER
 No. 15958
 9/25/15

CERTIFICATE OF AUTHORITY
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 No. 510
 ARKANSAS

ELECTRICAL SITE PLAN

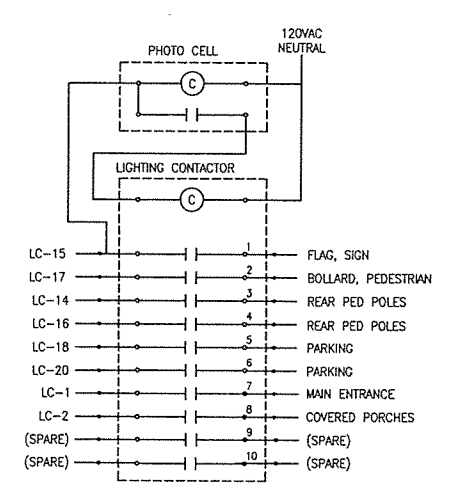
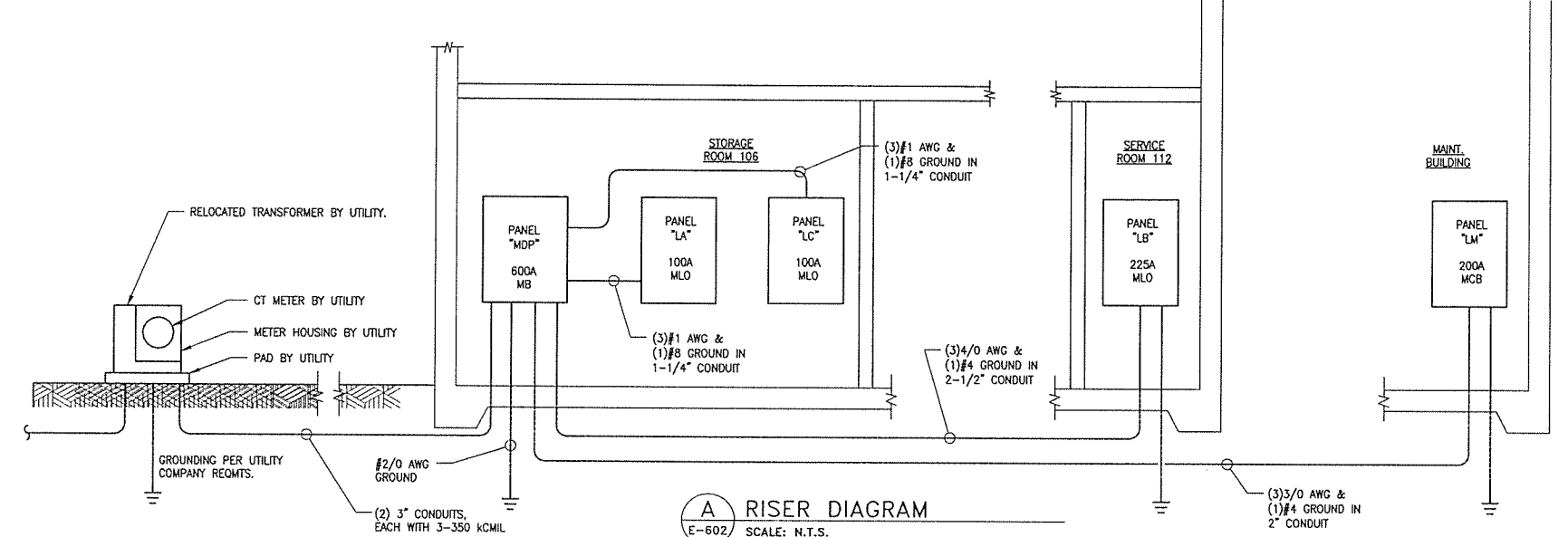
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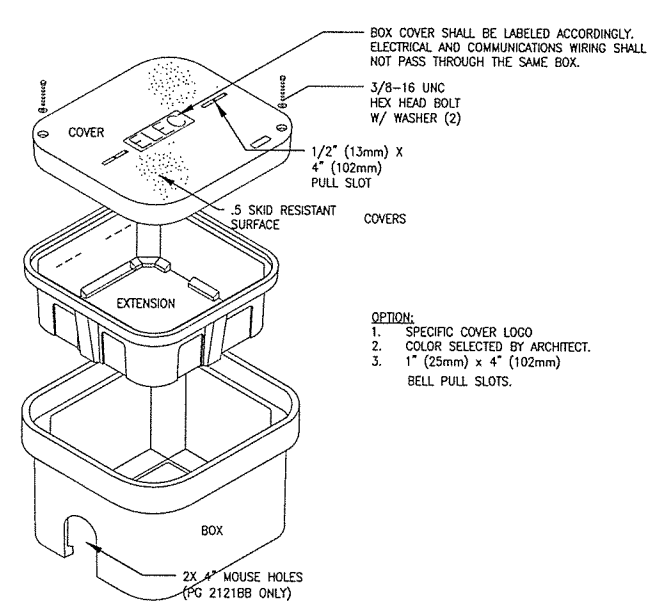
PANEL IDENTIFICATION NOTES:
 1. SIMILAR FOR DISCONNECTS, MOTOR CONTROLLERS, TRANSFORMERS, LIGHTING CONTROL PANEL, AUTOMATIC TRANSFER SWITCHES, ETC.

F PANELBOARD IDENTIFICATION DETAIL
 E-602 SCALE: N.T.S.

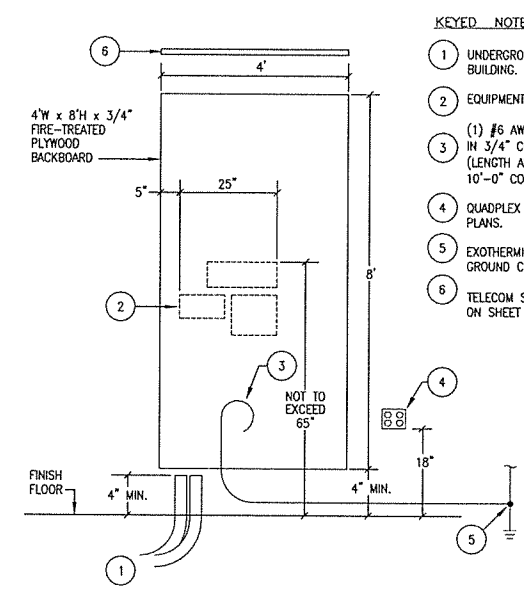


NOTES:
 1. PHOTOELECTRIC CELL SHALL BE INTERMATIC #K4221C WITH ADJUSTABLE SENSITIVITY, OR EQUAL. THE CONTRACTOR SHALL ADJUST DURING NIGHT HOURS TO INSURE PROPER OPERATION.
 2. LIGHTING CONTACTOR SHALL BE 30 AMP, 120V COIL, WITH THE REQUIRED NUMBER OF POLES SHOWN. PROVIDE NEMA 1 ENCLOSURE.

B OUTDOOR LIGHTING CONTACTORS
 E-602 SCALE: N.T.S.

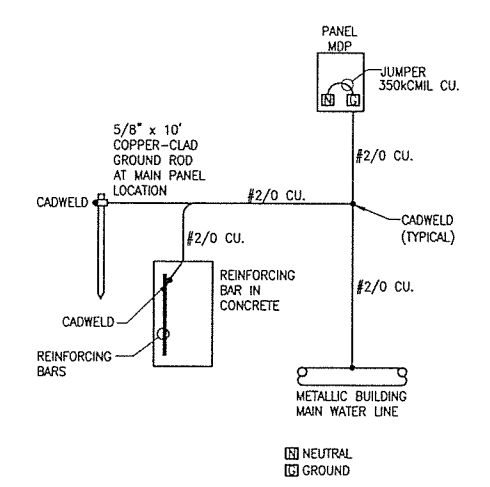


OPTION:
 1. SPECIFIC COVER LOGO
 2. COLOR SELECTED BY ARCHITECT.
 3. 1" (25mm) x 4" (102mm) BELL PULL SLOTS.



KEYED NOTES:

- UNDERGROUND TELEPHONE SERVICE CONDUIT TO FIVE FEET OUTSIDE BUILDING.
- EQUIPMENT FURNISHED & INSTALLED BY TELEPHONE UTILITY.
- (1) #6 AWG INSULATED SOLID COPPER GROUND WIRE CONDUCTOR IN 3/4" CONDUIT TO BUILDING ELECTRICAL SERVICE GROUND CONDUCTOR. (LENGTH AS REQUIRED - FIELD-VERIFY). LEAVE A MINIMUM OF 10'-0" COILED UP AT BASE OF TELEPHONE BOARD.
- QUADPLEX OUTLET ON DEDICATED 20A, 120V CIRCUIT. REFER TO PLANS.
- EXOTHERMIC WELD CONNECTION AT BUILDING ELECTRICAL SERVICE GROUND CONDUCTOR.
- TELECOM SHELF ABOVE TELEPHONE BOARD. REFER TO KEYED NOTE #11 ON SHEET E-102.



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ARIZONA HIGHWAY & TRANSPORTATION DEPARTMENT Job No. 030449
ARIZONA WELCOME CENTER
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REGISTERED PROFESSIONAL ENGINEER
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 No. 16959
 ANNA M. DEBEVERE

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 ARIZONA

RISER DIAGRAMS & DETAILS

DESIGNED BY	DBL
DRAWN BY	KAL
CHECKED BY	BRC
APPROVED BY	DBL
DATE	9/25/2015
SCALE	AS SHOWN
LEIDOS PROJECT NUMBER	313841
SHEET	E-602
REV	0
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