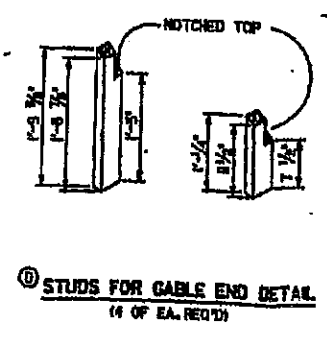
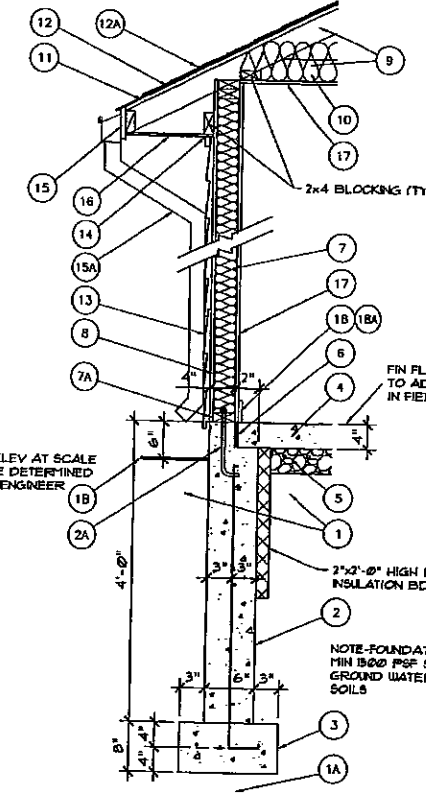
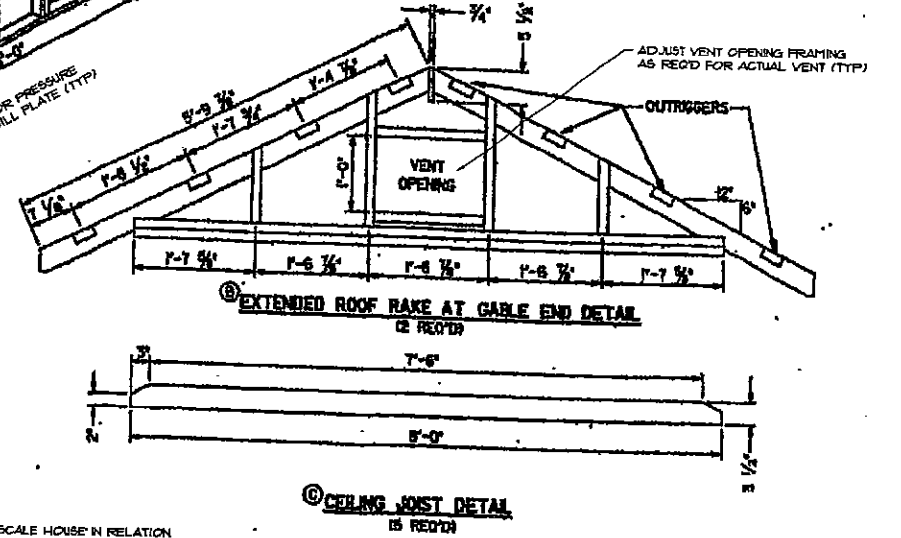
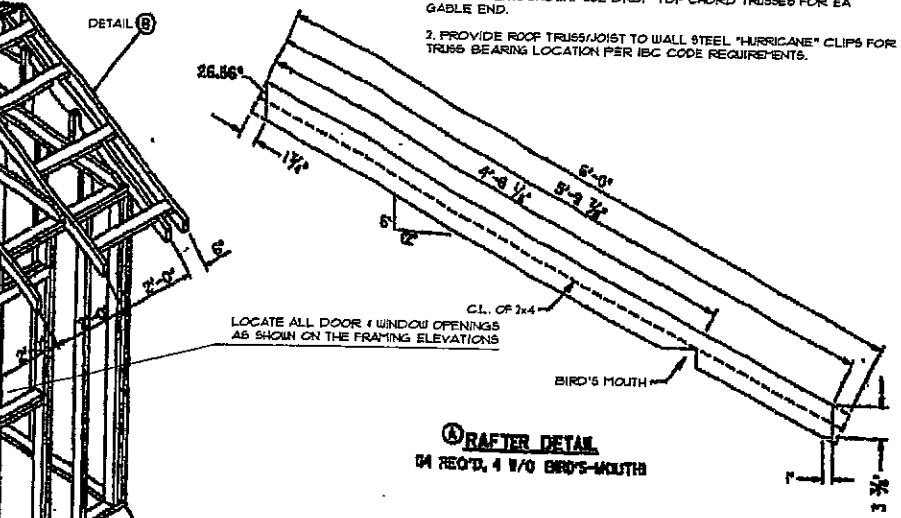
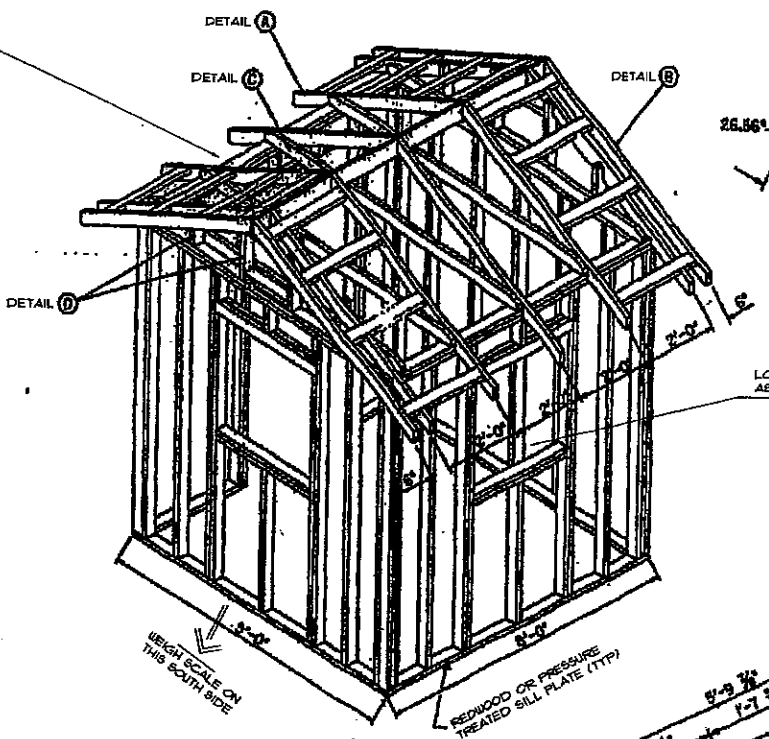
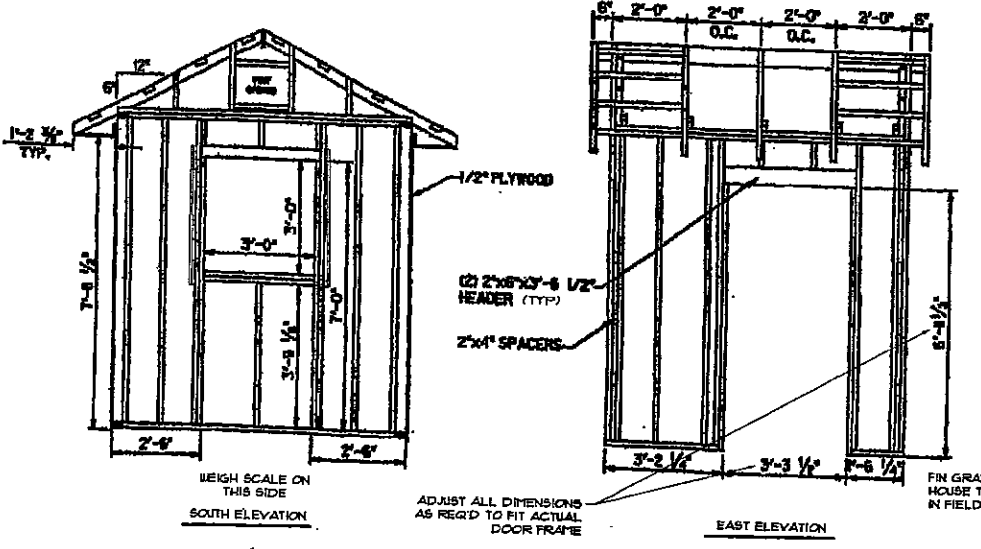
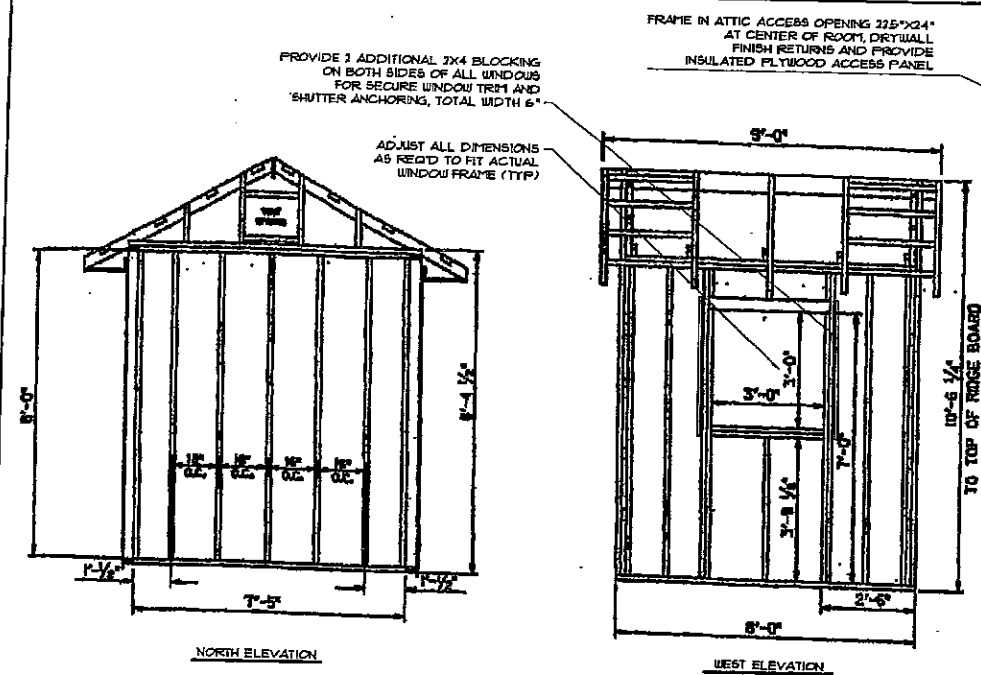


STATE OF WYOMING	PROJ. NO. 1801174	SHEET NO. A1	TOTAL SHEETS A5
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**ROOF FRAMING NOTES:**

1. AT CONTRACTOR'S OPTION, PROVIDE PRE-ENGINEERED AND PRE-MANUFACTURED ROOF TRUSSES AT 24" OC TO MATCH LAYOUT REQUIREMENTS SHOWN. USE DROP TOP CHORD TRUSSES FOR EA GABLE END.
2. PROVIDE ROOF TRUSS/JOIST TO WALL STEEL "HURRICANE" CLIPS FOR EACH TRUSS BEARING LOCATION PER IBC CODE REQUIREMENTS.



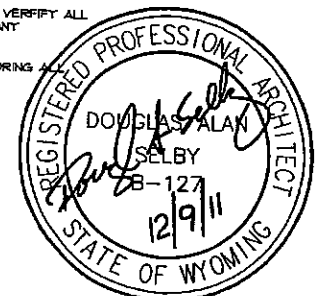
**NOTES: (SHTS A1 - A2)**

1. ALL CONCRETE SHALL BE WYDOT CLASS "B".
2. ALL BUILDING MATERIALS TO BE INSTALLED IN STRICT CONFORMANCE TO MANUFACTURERS WRITTEN INSTALLATION REQUIREMENTS & LITERATURE.
3. ALL MATERIALS AND INSTALLATION SHALL MEET ALL CURRENT BUILDING CODES, INCLUDING THE INTERNATIONAL BUILDING CODES (IBC) FOR STATE OF WYOMING AND OTHER APPLICABLE CODES FOR JURISDICTION OF THE WORK.
4. CONFIRM ORIENTATION OF BUILDING AND EACH WINDOW / DOOR BEFORE STARTING CONSTRUCTION.
5. CONFIRM CLEARANCE OF SCALE BUILDING TO SCALE PLATFORM PRIOR TO STARTING CONSTRUCTION.
6. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE ALL WORK SHOWN ON ARCHIT/TECH/ELECT PLANS, CALLED FOR IN THE SPECIAL PROVISIONS, OR REASONABLY IMPLIED FOR A COMPLETE INSTALLATION.
7. THROUGHOUT THE WORK CALLK AND SEAL ALL JOINTS AS REQUIRED TO PROVIDE A POSITIVE BARRIER AGAINST PASSAGE OF AIR AND MOISTURE.
8. ALL DIMENSIONS/LAYOUTS SHOWN ARE APPROXIMATE, FIELD VERIFY ALL WORK PRIOR TO ORDERING MATERIALS OR INSTALLING WORK. ANY VARIATIONS SHALL BE AS APPROVED BY ENGINEER.
9. PROVIDE SOLID WOOD BLOCKING AND BACKING FOR ANCHORING ALL MISC. WORK, FRAMING, MECH/ELEC EQUIPMENT, ETC.

**KEY NOTES: (SHTS A11 - A12)**

- 1 - BACKFILL COMPACTED TO 95% STD PROCTOR DENSITY.
- 1A - PLACE FOOTING ON NATURAL SOIL BASE.
- 1B - FINISH GRADE VARIES, MINIMUM OF 6" FROM TOP OF FOUNDATION.
- 2 - 4" THICK CONC FOUNDATION W/ 3 #4 HORIZ REBAR AND #4 CORNER BARS, AND #4 VERTICAL HOOKS AT 36" OC.
- 2A - 1/2" DIAM #5 STL ANCHOR BOLT AT 33" O.C. MAXIMUM W/ NUT AND SQUARE WASHER AND PROVIDE ANCHOR BOLTS ON ALL WALLS WITHIN 4" OF EACH CORNER AND DOOR OPENING.
- 3 - 8x10" THICK CONC FOOTING W/ 2 #4 HORIZ REBAR AND #4 CORNER BARS.
- 4 - 4" CONCRETE SLAB, SEAL W/ 2 COATS CLEAR CONCRETE SEALER.
- 5 - 4" FREE DRAINING GRANULAR FILL.
- 6 - 1/2" PREMOULDED BITUMINOUS JOINT MATERIAL.
- 7 - 2x4 STD FRAMING AT 16" OC W/ 3 1/2" THICK KRAFT FACED FIBERGLASS BATT INSULATION (R-13).
- 7A - 2x4 REDWOOD OR PRESSURE TREATED SILL PLATE ON 1/2" SILL SEALER.
- 8 - 1/2" EXTERIOR PLYWOOD SHEATHING OVER AIR BARRIER FABRIC WRAP (TYVEK OR EQUAL).
- 9 - 2x4 ROOF RAFTER AND CEILING JOISTS AT 24" OC.
- 10 - 6" KRAFT FACED FIBERGLASS BATT INSULATION (R-19) HOLD DOWN 1" AT EAVES.
- 11 - 5/8" PLYWOOD EXTERIOR SHEATHING.
- 12 - ICE & WATERSHIELD MEMBRANE "UNDERLAYMENT" (W/ GRACE OR EQUAL).
- 12A - ROOF SHINGLES, TO BE NAILED (NOT STAPLED), HEAVY WEIGHT HEAVYWEIGHT COMPOSITION SHINGLES TO MEET IBC WIND RATING FOR PROJECT LOCATION (NOT LESS THAN 100 MPH), MALARKY OR EQUAL.
- 13 - PRE-FINISHED STEEL (STL) LAP SIDING, 20 GAGE, ABC SEAMLESS OR EQUAL.
- 14 - PRE-FINISHED STL TRIM CLOSURE AND SEALANT.
- 15 - PRE-FINISHED ALUMINUM (ALUM) FACIA COVER (ABC SEAMLESS OR EQUAL) OVER 1x6 REDWOOD FACIA OVER 2x4 SOLID BLOCKING.
- 15A - PRE-FINISHED ALUM GUTTERS & DOWNSPOUTS (TYP OF 2), ABC SEAMLESS OR EQUAL.
- 16 - PRE-FINISHED ALUM 1/2" SOFFIT PANELS (ABC SEAMLESS OR EQUAL) OVER 3/8" SOFFIT PLYWOOD.
- 17 - 5/8" TYPE "X" FIRECODE GYP BD, TAPED AND FINISHED, MEDIUM ORANGE PEEL TEXTURE, PAINTED.
- 18 - 3 1/2"x5/8" WOOD FLOOR PERIMETER BASE, PAINTED.
- 18A - 3 1/2"x5/8" WOOD WINDOW PERIMETER CASING W/ WOOD JAMB PERIMETER INFILL BACK TO WINDOW FRAME, PAINTED.

**1 FRAMING DETAILS AND ELEVATIONS**  
NOT TO SCALE



Not valid unless signed and dated.

CAD DATE - 10/10/11

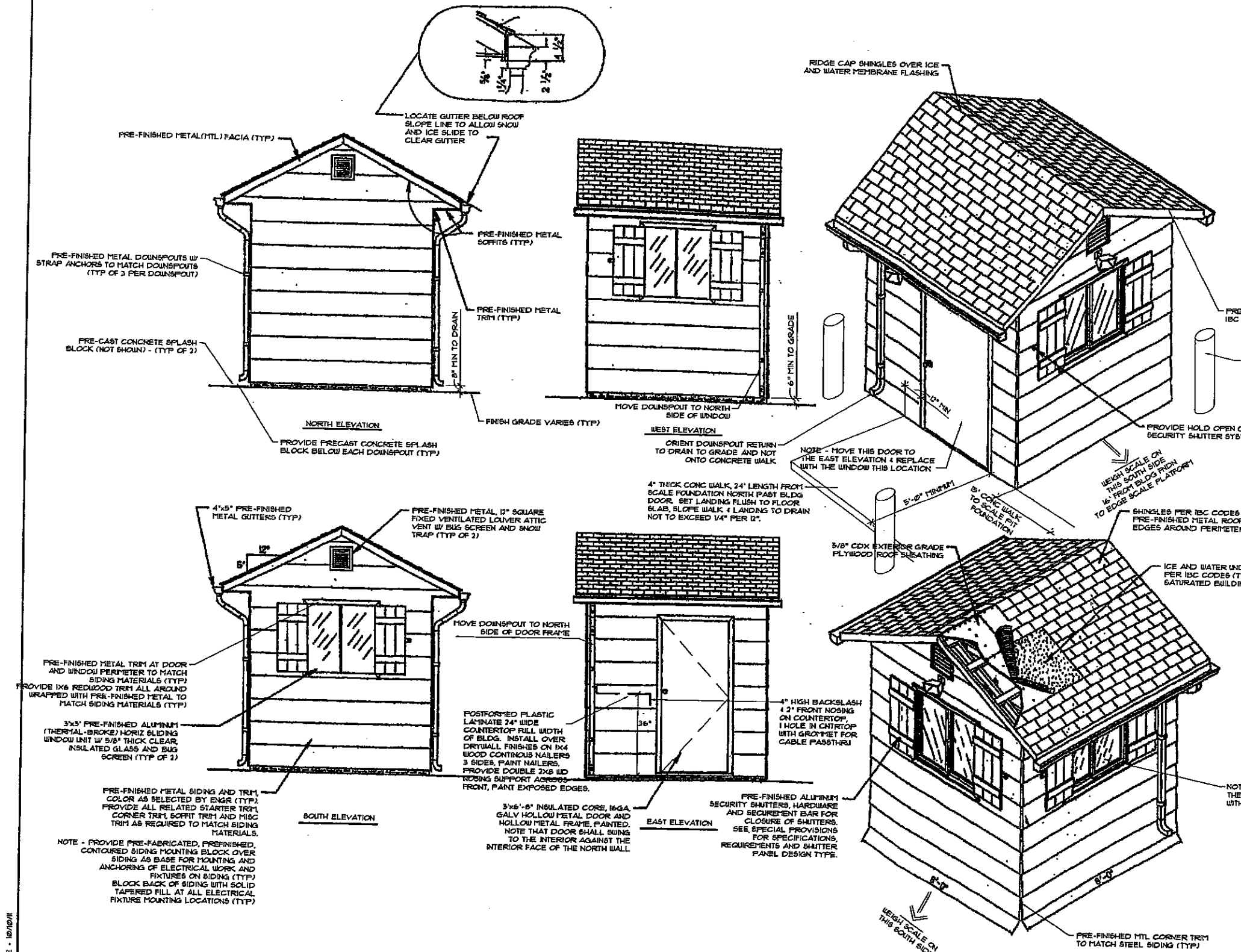
STATE OF WYOMING	PROJ. NO. 1801174	SHEET NO. A2	TOTAL SHEETS A5
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**COLOR/FINISH NOTES:**

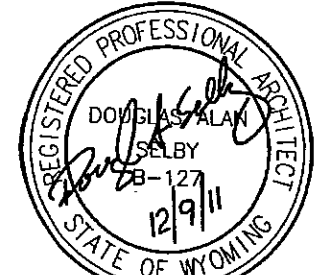
- PRE-FINISHED STEEL SIDING & SIDING TRIM - COLOR AS SELECTED BY ENGR
- PRE-FINISHED ALUMINUM FACIA, SOFFITS, GUTTERS, DOWNSPOUTS, TRIM - WHITE
- PAINTED GYPSUM BOARD - OFF WHITE OR AS SELECTED BY ENGR
- PAINTED INTERIOR WOOD TRIM - MATCH GYPSUM BOARD
- PAINTED HOLLOW METAL DOOR & FRAME - COLOR TO MATCH STEEL SIDING
- PRE-FINISHED WINDOW & VENT LOUVER - WHITE
- FIELD PAINTED WOOD SHUTTERS - WHITE
- ROOF SHINGLES - COLOR AS SELECTED BY ENGR
- HARDWARE - DULL OR SATIN CHROME
- CONCRETE FLOOR - CLEAR SEALER
- STEEL BOLLARDS - SAFETY YELLOW
- FIELD PAINTED STEEL PRODUCTS - PROVIDE INDUSTRIAL GRADE ALKYL ENAMEL PAINT, 2 COATS OVER APPLICABLE PRIMER, 1 COAT, FOR FULL COVERAGE, PITTSBURGH OR SHERWIN WILLIAMS PAINT, OR EQUAL.
- FIELD PAINTED BLDG. INTERIOR FINISHES - PROVIDE SEMI-GLOSS LATEX ENAMEL, 2 COATS OVER APPLICABLE PRIMER, 1 COAT, FOR FULL COVERAGE, PITTSBURGH OR SHERWIN WILLIAMS PAINT, OR EQUAL.

**DOOR HARDWARE NOTES:**

- LOCKSET - MORTISE LOCKSET, CYLINDER KEYING TO MATCH WYDOT STANDARDS (BEST, NO SUBSTITUTIONS) CORES TO BE PROVIDED BY WYDOT, SATIN CHROME
- DEADLOCK - LOCK CYLINDER, KEYING TO MATCH WYDOT STANDARDS (BEST, NO SUBSTITUTIONS) CORES TO BE PROVIDED BY WYDOT, SATIN CHROME
- HINGES - 15 PAIR SATIN CHROME
- WEATHERSTRIPPING - COMPRESSION SEAL TYPE PERIMETER SEAL AND BRUSH TYPE SWEEP SEAL
- THRESHOLD - MILL FINISH ALUMINUM, HC ACCESSIBLE, SET IN BED OF SEALANT.
- SEE SPECIAL PROVISIONS FOR EXTERIOR SECURITY SHUTTER HARDWARE.

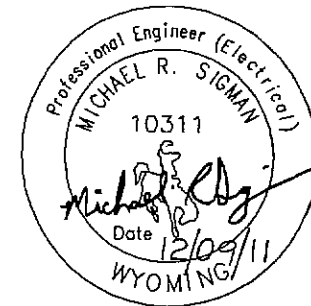
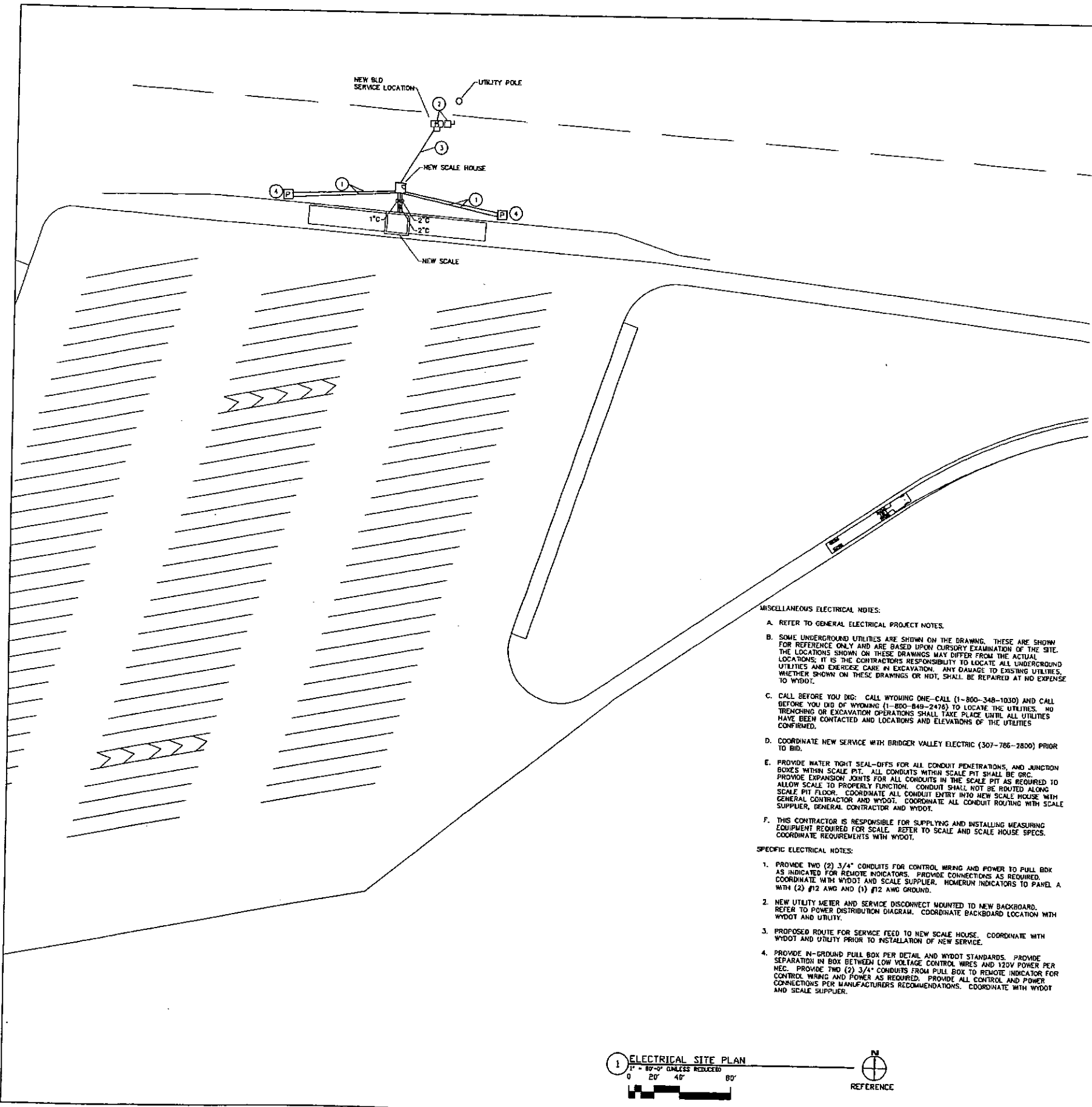


1 ELEVATION DETAILS  
NOT TO SCALE



Not valid unless signed and dated.

CAD DWG DATE - 10/10/11



STATE OF WYOMING	PROJ. NO. 1801174	SHEET NO. A3	TOTAL SHEETS A5
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WPE PROJECT NO: BC11018

**WPE WEST PLAINS ENGINEERING, INC.**  
 545 SOUTH DURBIN BLVD. SUITE 200 • CAMPER, WY 82601  
 PHONE: (307) 234-0484 • FAX: (307) 234-5484  
 WWW.WESTPLAINSENGINEERING.COM  
 WFO: CDT, ID • WCP: PUA, ID • CAMP: WY • CEM: MPA, ID

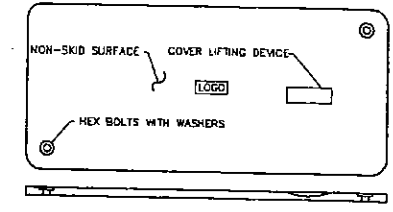
Cone Box Culvert

**MISCELLANEOUS ELECTRICAL NOTES:**

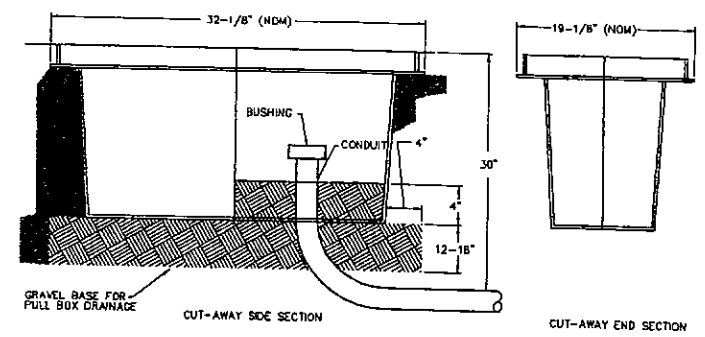
- REFER TO GENERAL ELECTRICAL PROJECT NOTES.
- SOME UNDERGROUND UTILITIES ARE SHOWN ON THE DRAWING. THESE ARE SHOWN FOR REFERENCE ONLY AND ARE BASED UPON CURSORY EXAMINATION OF THE SITE. THE LOCATIONS SHOWN ON THESE DRAWINGS MAY DIFFER FROM THE ACTUAL LOCATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES AND EXERCISE CARE IN EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THESE DRAWINGS OR NOT, SHALL BE REPAIRED AT NO EXPENSE TO WYDOT.
- CALL BEFORE YOU DIG: CALL WYOMING ONE-CALL (1-800-348-1030) AND CALL BEFORE YOU DIG OF WYOMING (1-800-849-2476) TO LOCATE THE UTILITIES. NO TRENCHING OR EXCAVATION OPERATIONS SHALL TAKE PLACE UNTIL ALL UTILITIES HAVE BEEN CONTACTED AND LOCATIONS AND ELEVATIONS OF THE UTILITIES CONFIRMED.
- COORDINATE NEW SERVICE WITH BRIDGER VALLEY ELECTRIC (307-766-2800) PRIOR TO BID.
- PROVIDE WATER TIGHT SEAL-OFFS FOR ALL CONDUIT PENETRATIONS, AND JUNCTION BOXES WITHIN SCALE PIT. ALL CONDUITS WITHIN SCALE PIT SHALL BE GRC. PROVIDE EXPANSION JOINTS FOR ALL CONDUITS IN THE SCALE PIT AS REQUIRED TO ALLOW SCALE TO PROPERLY FUNCTION. CONDUIT SHALL NOT BE ROUTED ALONG SCALE PIT FLOOR. COORDINATE ALL CONDUIT ENTRY INTO NEW SCALE HOUSE WITH GENERAL CONTRACTOR AND WYDOT. COORDINATE ALL CONDUIT ROUTING WITH SCALE SUPPLIER, GENERAL CONTRACTOR AND WYDOT.
- THIS CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING MEASURING EQUIPMENT REQUIRED FOR SCALE. REFER TO SCALE AND SCALE HOUSE SPECS. COORDINATE REQUIREMENTS WITH WYDOT.

**SPECIFIC ELECTRICAL NOTES:**

- PROVIDE TWO (2) 3/4" CONDUITS FOR CONTROL WIRING AND POWER TO PULL BOX AS INDICATED FOR REMOTE INDICATORS. PROVIDE CONNECTIONS AS REQUIRED. COORDINATE WITH WYDOT AND SCALE SUPPLIER. HOMERUN INDICATORS TO PANEL A WITH (2) #12 AWG AND (1) #12 AWG GROUND.
- NEW UTILITY METER AND SERVICE DISCONNECT MOUNTED TO NEW BACKBOARD. REFER TO POWER DISTRIBUTION DIAGRAM. COORDINATE BACKBOARD LOCATION WITH WYDOT AND UTILITY.
- PROPOSED ROUTE FOR SERVICE FEED TO NEW SCALE HOUSE. COORDINATE WITH WYDOT AND UTILITY PRIOR TO INSTALLATION OF NEW SERVICE.
- PROVIDE IN-GROUND PULL BOX PER DETAIL AND WYDOT STANDARDS. PROVIDE SEPARATION IN BOX BETWEEN LOW VOLTAGE CONTROL WIRES AND 120V POWER PER NEC. PROVIDE TWO (2) 3/4" CONDUITS FROM PULL BOX TO REMOTE INDICATOR FOR CONTROL WIRING AND POWER AS REQUIRED. PROVIDE ALL CONTROL AND POWER CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH WYDOT AND SCALE SUPPLIER.



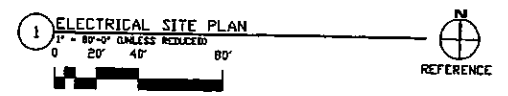
**COVER DETAIL**  
NO SCALE



**BOX DETAIL**  
NO SCALE

**GENERAL BOX DETAIL NOTES:**

- COORDINATE THE NUMBER AND SIZE OF CONDUITS ENTERING OR LEAVING EACH PULL BOX IN THE FIELD AND WITH OTHER DRAWINGS. BENDING RADIUS OF CONDUITS SHALL CONFORM TO NEC REQUIREMENTS.
- THE EXACT LOCATION AND ELEVATION OF EACH NEW PULL BOX SHALL BE DETERMINED ON THE JOB SITE WITH THE APPROVAL OF THE OWNER AND WITH THE FOLLOWING ASPECTS TO BE TAKEN INTO CONSIDERATION:
  - SHALL BE EASILY AND SAFELY ACCESSIBLE.
  - SHALL CONSTITUTE NO HAZARD OR OBSTACLE TO PEDESTRIANS. INSTALL FLUSH WITH WALK AREA OR INSTALL COMPLETELY OUTSIDE OF WALK AREA.
  - SHALL BE LOCATED OUTSIDE OF DRAINAGE OR WATER COLLECTION AREAS.
- ALLOW A MINIMUM OF 36" (914mm) LEAD-IN CONDUCTORS. ALL SPLICES TO BE MADE WITH WATERTIGHT SPLICING KITS.
- ALL PULL BOXES AND COVERS SHALL HAVE AN ANSI TIER 15 LOADING. BOXES SHALL BE OPEN BOTTOM, QUARTZITE #PT17508118 OR EQUAL BY AWORCAST OR ASSOCIATED. COVERS SHALL BE HEAVY DUTY WITH TWO BOLTS, QUARTZITE #PT17508000 OR EQUAL BY AWORCAST OR ASSOCIATED. COORDINATE LOGO WORKING WITH WYDOT.

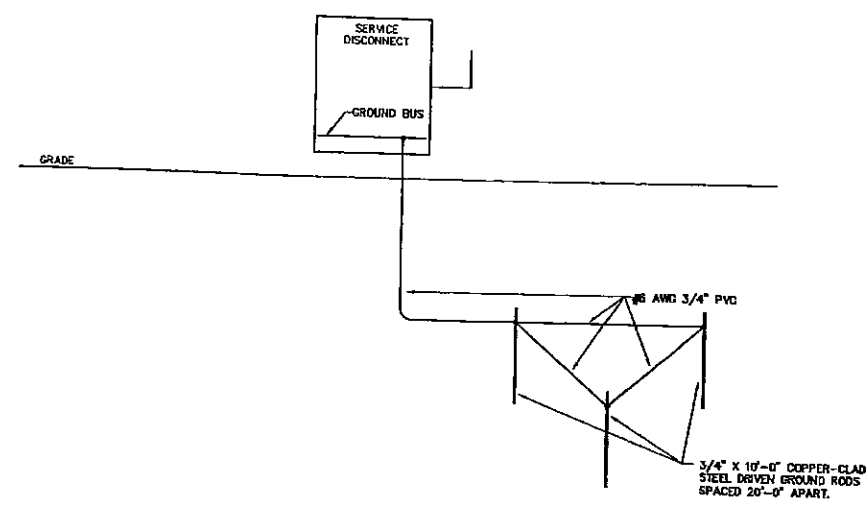
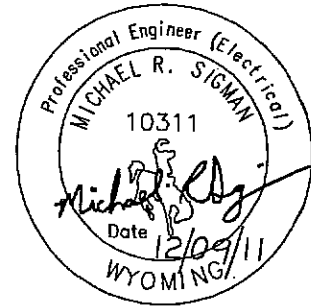


STATE OF WYOMING	PROJ. NO. 1801174	SHEET NO. A4	TOTAL SHEETS A5
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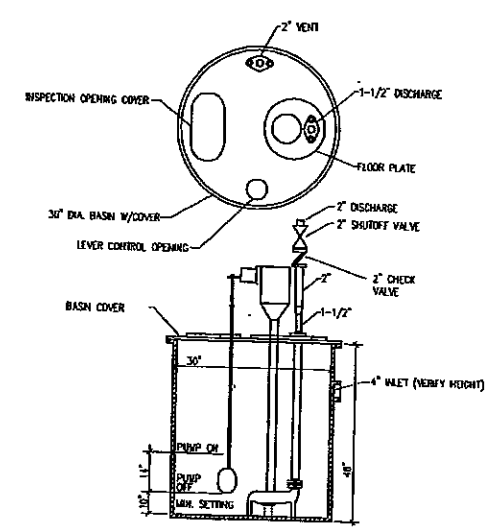
WPE PROJECT NO. BC11018

**WPE** WEST PLAINS ENGINEERING, INC.

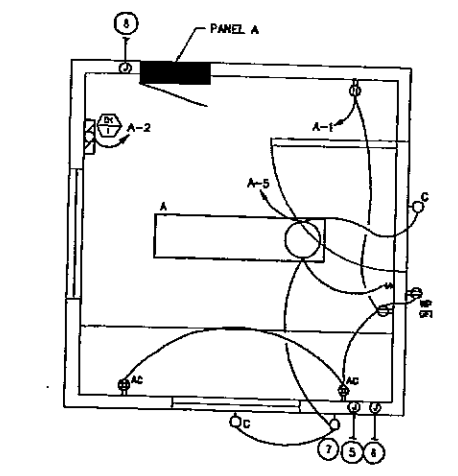
145 SOUTH DURAND, SUITE 200 • CASPER, WY 82201  
 PHONE: (307) 234-6464 • FAX: (307) 234-6494  
 www.westplainsengineering.com  
 WPE OFF. 80 • 8000 PULLMAN • CASPER, WY • 82204, WY, U.S.A.



1 GROUNDING ELECTRODE DIAGRAM  
NO SCALE

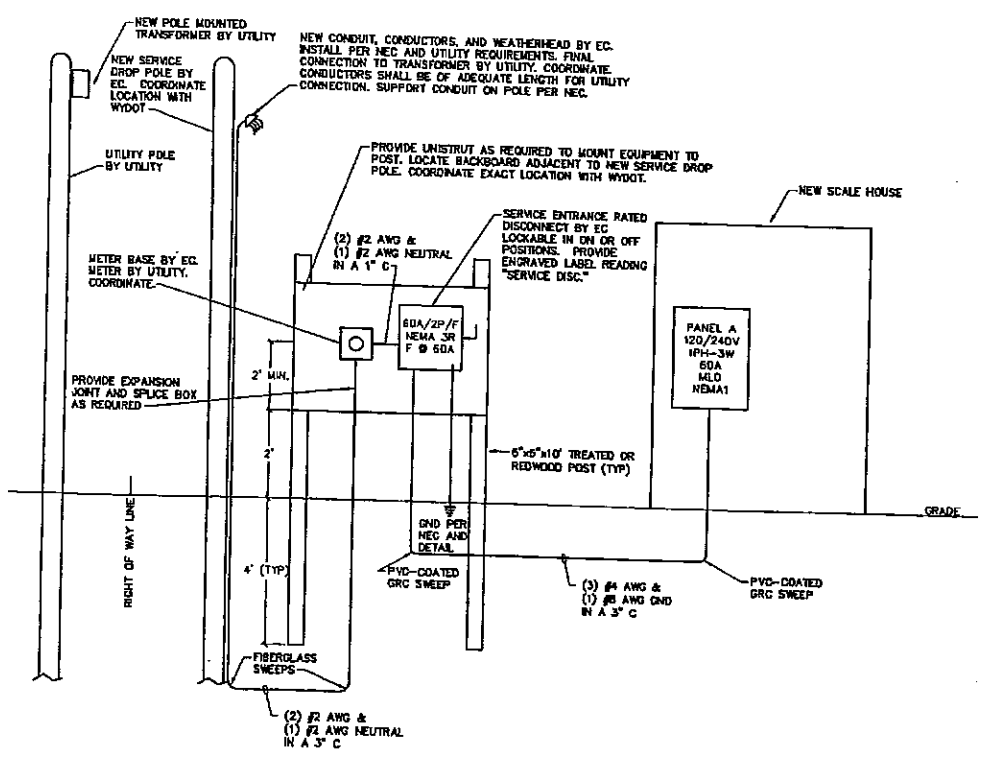


2 SIMPLEX SUMP PUMP DETAIL  
NO SCALE

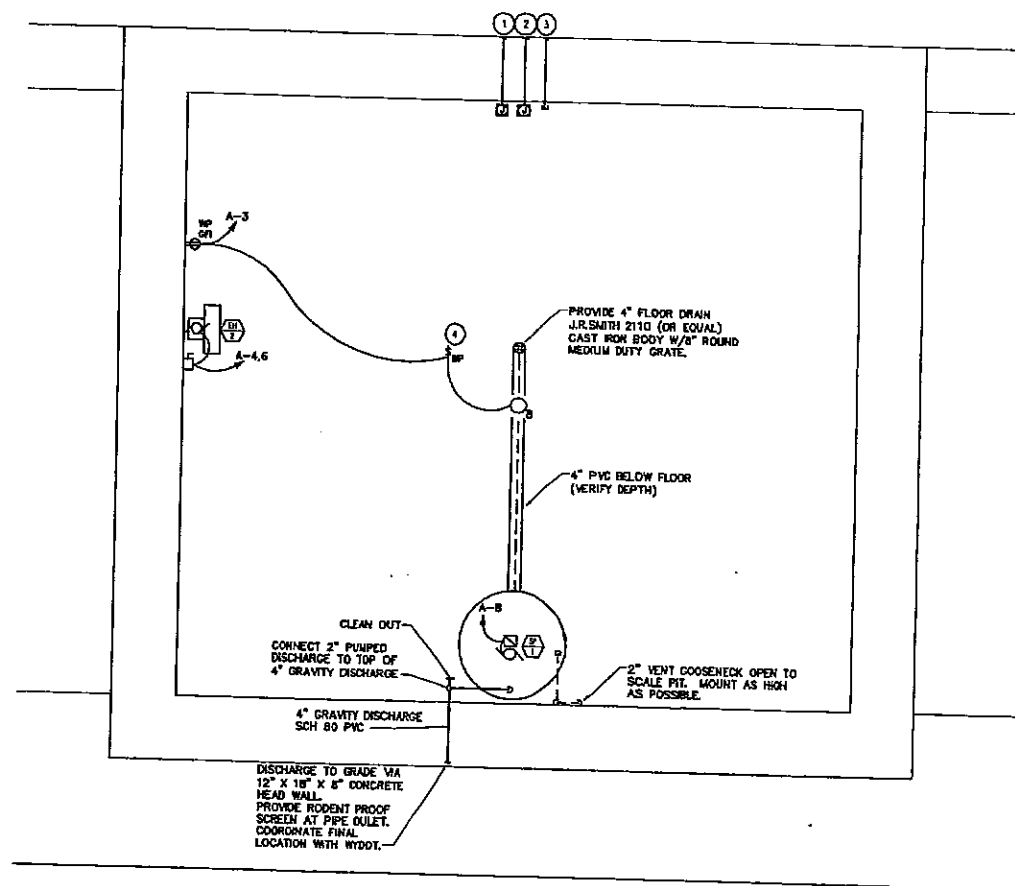


3 SCALE HOUSE  
NO SCALE

NOTE: ALL CONDUIT EXPOSED ABOVE GRADE SHALL BE RIGID STEEL OR M.C. PVC CONDUIT SHALL NOT BE USED ABOVE GRADE. CONDUIT BELOW GRADE MAY BE PVC; ALL CONDUIT THROUGH FOUNDATION WALLS, EITHER SIDE, COMING UP FROM BELOW GRADE, AND ALL SWEEPS TURNING UP FROM BELOW GRADE, AND ALL SWEEPS SIZE 2\"/>



4 POWER DISTRIBUTION DIAGRAM  
NO SCALE



5 SCALE  
NO SCALE

- MISCELLANEOUS ELECTRICAL NOTES:
- REFER TO GENERAL ELECTRICAL PROJECT NOTES.
  - PROVIDE WATER TIGHT SEAL-OFFS FOR ALL CONDUIT PENETRATIONS AND JUNCTION BOXES WITHIN SCALE PIT. ALL CONDUITS WITHIN SCALE PIT SHALL BE GRC. PROVIDE EXPANSION JOINTS FOR ALL CONDUITS IN THE SCALE PIT AS REQUIRED TO ALLOW SCALE TO PROPERLY FUNCTION. CONDUIT SHALL NOT BE ROUTED ALONG SCALE PIT FLOOR. COORDINATE ALL CONDUIT ENTRY INTO NEW SCALE HOUSE WITH GENERAL CONTRACTOR AND WYDOT. COORDINATE ALL CONDUIT ROUTING WITH SCALE SUPPLIER, GENERAL CONTRACTOR AND WYDOT.
  - THIS CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING MEASURING EQUIPMENT REQUIRED FOR SCALE. REFER TO SCALE AND SCALE HOUSE SPECS. COORDINATE REQUIREMENTS WITH WYDOT.
- SPECIFIC ELECTRICAL NOTES:
- PROVIDE A 1\"/>
  - PROVIDE A 2\"/>
  - PROVIDE A SPARE 2\"/>
  - LIGHT SWITCH SHALL BE MOUNTED TO THE UNDERNEATH SIDE OF THE SCALE PLATFORM ADJACENT TO MANHOLE ENTRANCE. PROVIDE WEATHERPROOF COVER.
  - PROVIDE A 6\"/>
  - PROVIDE A 6\"/>
  - DIGITAL INDICATOR. PROVIDE CONNECTIONS AS REQUIRED. COORDINATE WITH WYDOT AND SCALE SUPPLIER.
  - PROVIDE A SPARE 3\"/>



# SINGLE BARREL 12'-0" X 12'-0" CONCRETE BOX CULVERT EXTENSION CHAIN-UP AREAS EVANSTON - GREEN RIVER

1801174

UINTA COUNTY



**DESIGN DATA**

**SPECIFICATIONS:** AASHTO LRFD Bridge Design Specifications, 4th Edition with 2008 Interims

ADT: 9407 (Year 2029)

**LOADING:**

- Live Load: HL93
- Lateral live load surcharge: 4 ft of earth or 144 psf
- Dead Load: Design fill: 3.7 ft
  - (1) Vertical earth pressure: 120 pcf
  - Lateral earth pressure: 36 pcf
  - (2) Vertical earth pressure: 120 pcf
  - Lateral earth pressure: 72 pcf

**REINFORCED CONCRETE:** Load and Resistance Factor Design -  
 Class B Concrete  $f'_c = 3250$  psi  
 Reinforcing Steel  $f_y = 60,000$  psi (Grade 60)  
 $f_y = 40,000$  psi (Grade 40)

**APPROACH ROADWAY WIDTH:** 38'-0"

ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	TOTAL QUANTITY	ESTIMATE
202.03460	REMOVAL OF CONCRETE	LS	LUMP SUM	93 CY
206.03300	CULVERT SUBEXCAVATION	CY	100	
212.03900	PERVIOUS BACKFILL MATERIAL	CY	30	
217.01069	BIAXIAL GEOGRID (STIFF)	SY	296	
301.01080	CRUSHED BASE	TON	190	
513.00015	CLASS B CONCRETE	LS	LUMP SUM	178.2 CY
514.00015	REINFORCING STEEL	LS	LUMP SUM	24160 LB
900.60000	CONTRACTOR QUALITY CONTROL (CONCRETE)	LS	LUMP SUM	

**STRUCTURE NO. IYE**  
 ML80, RM 8.31

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM		
REVISIONS		
APPROVED <i>Jeffrey R. Bocher</i> DATE 10.25.2011	DESIGN DETAIL DER ✓ BC ✓ D'S. ✓ ✓	Design Section J R Bocher Drwg. No. 7472 Sheet 1 of 6

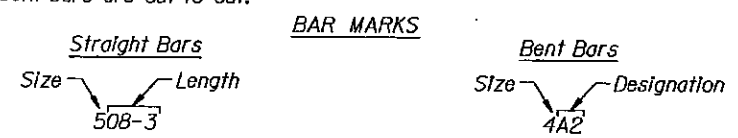
**GENERAL NOTES**

**SPECIFICATIONS:** WYDOT Standard Specifications for Road and Bridge Construction, 2010 Edition

**DIMENSIONS:** Longitudinal dimensions are along flow line. Slopes are vertical : horizontal.

**LINE STYLE DESIGNATION:** Phantom lines indicate existing structure, solid lines indicate new construction, hatched areas indicate removal.

**REINFORCING STEEL:** Concrete cover to face of reinforcing steel is 2" unless noted. Dimensions for bent bars are out to out.



**CULVERT EXCAVATION:** The estimated quantity of culvert excavation is 50 CY and is incidental to the contract pay item Class B Concrete.

**CULVERT SUBEXCAVATION:** The bottom limits of culvert subexcavation is 2'-0" below the bottom of the culvert. Line the bottom of the culvert subexcavation with biaxial geogrid (stiff). Backfill with 1'-0" crushed base. Place a second layer of biaxial geogrid (stiff) and backfill to bottom of the bottom slab with crushed base. The estimated quantity of culvert subexcavation is calculated in accordance with Standard Plan 206-1A, Culvert and Trench Excavation.

**REMOVAL OF CONCRETE:** Remove the existing wingwalls. Cut reinforcing steel flush with concrete remaining in place. Paint exposed reinforcing steel in the existing culvert with two coats of zinc rich paint conforming to the requirements of ASTM A 780.

**ADHESIVE ANCHORAGE SYSTEM:** Use one of the following anchorage systems:  
 Epoxy Anchoring Systems as manufactured by Cover Operations  
 Epcon System as manufactured by ITW Ramset/Red Head  
 Sure Anchor I (J-51) as manufactured by Dayton Superior  
 HIT-RE 500 System as manufactured by Hiitl, Inc.  
 Drill and prepare holes for the anchorage system as recommended by the manufacturer. Install in accordance with the manufacturer's recommendations to provide pullout strength of equal or greater capacity to the corresponding reinforcing steel. Work necessary for the adhesive anchorage system is incidental to the contract pay item Class B Concrete.

**EPOXY RESIN BONDING COMPOUND:** Clean the exposed ends of the existing culvert and coat with epoxy resin bonding compound. Place new concrete immediately after applying the bonding compound. If the bonding compound gels before concrete placement, remove by sandblasting and reapply. Use bonding compound conforming to Subsection 810.6, Epoxy Resin. Mix and apply in accordance with the manufacturer's recommendations. Work necessary for the epoxy resin bonding compound is incidental to the contract pay item Class B Concrete.

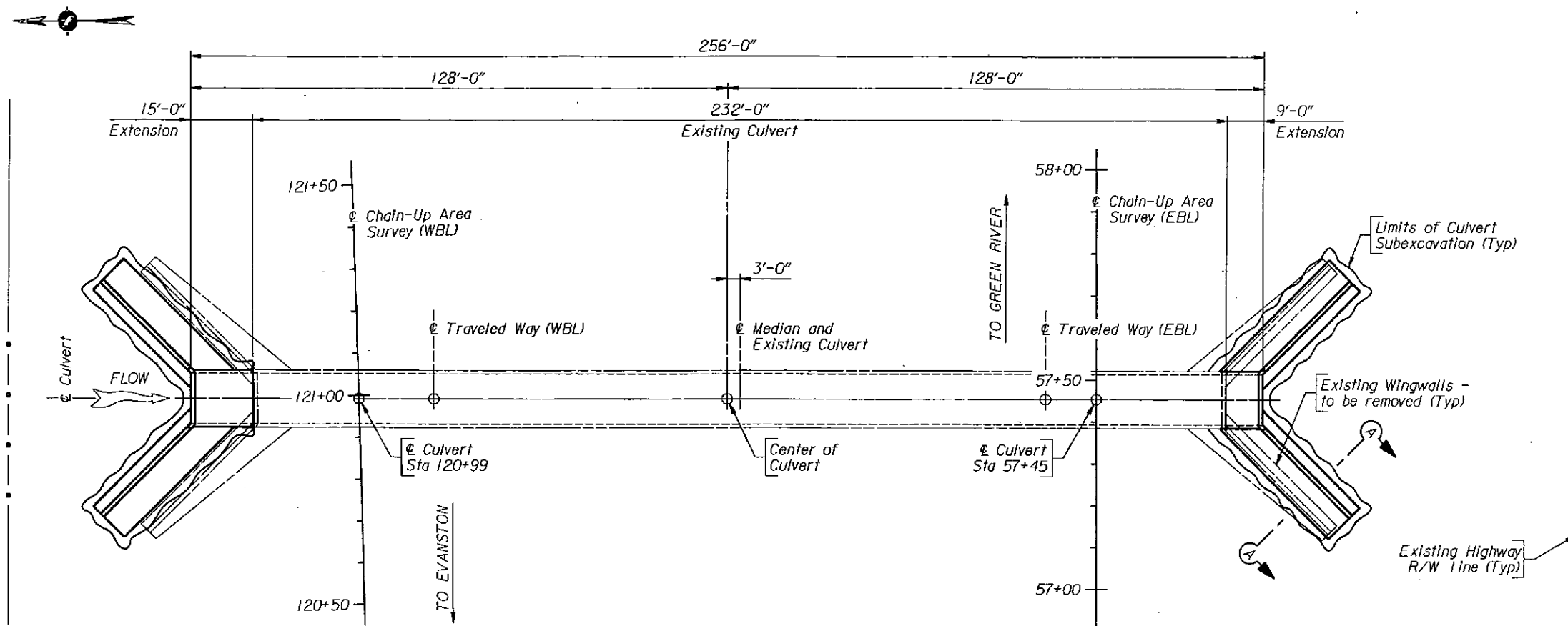
**EYEBOLTS:** Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay item Class B Concrete.

**WEEP HOLE ASSEMBLIES:** Work necessary for the weep hole assemblies is incidental to the contract pay item Class B Concrete.

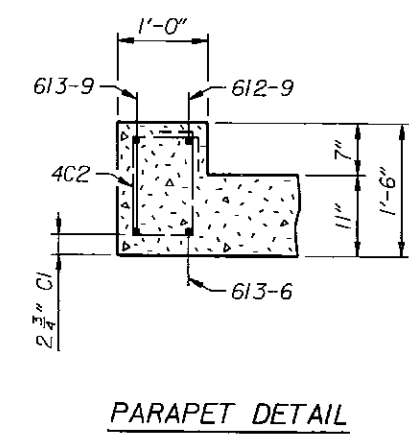
**REFERENCES**

- WYDOT Plans: Bridge Drwg No. 6061 ----- Sheet No. 2 and 3 of 3
- Standard Plans: 206-1A Culvert and Trench Excavation
- Supplementary Specifications: Dated
- SS-100K Adjustment for Structural Steel ----- 10-1-10
  - SS-200B Biaxial Geogrid (Stiff) ----- 10-1-10
  - SS-500G Structural Concrete with Quality Control and Quality Acceptance ----- 10-1-10

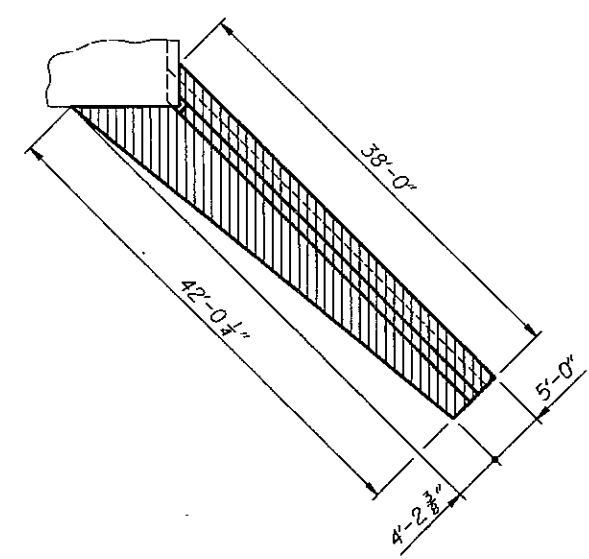
WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM			
REVISIONS	<b>GENERAL NOTES</b>		
	<p><b>SINGLE BARREL 12'-0" X 12'-0"</b></p> <p><b>CONCRETE BOX CULVERT EXTENSION</b></p> <p style="text-align: center;">Chain-Up Areas</p> <p style="text-align: center;">Evanston - Green River</p>		
	1801174	UI	
APPROVED <i>Kid R. Baker</i>	DESIGN DER ✓	DETAIL BC ✓	Design Section J R Boohar
DATE 10-25-2011	D'S.	O'S.	Drwg. No. 7472 Sheet 2 of 6



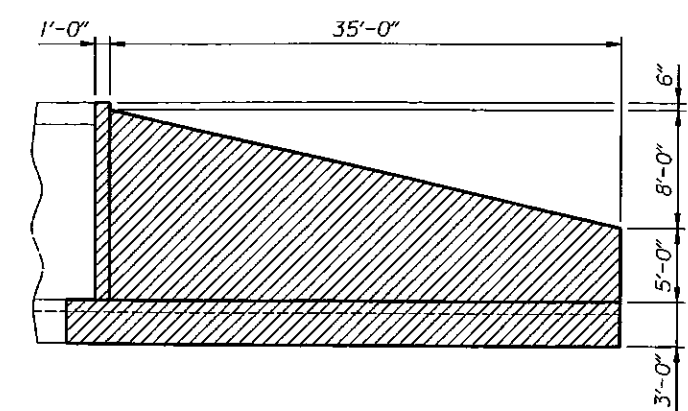
LOCATION PLAN



PARAPET DETAIL

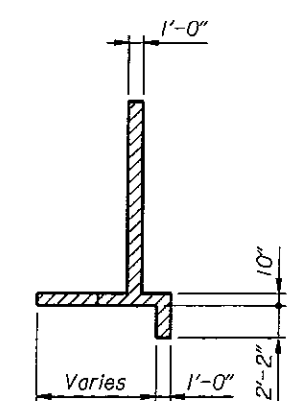


PLAN

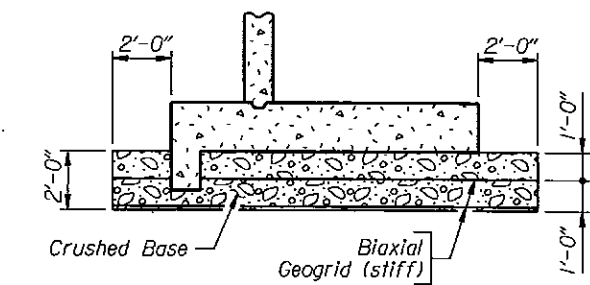


ELEVATION

WINGWALL REMOVAL DETAILS



SECTION

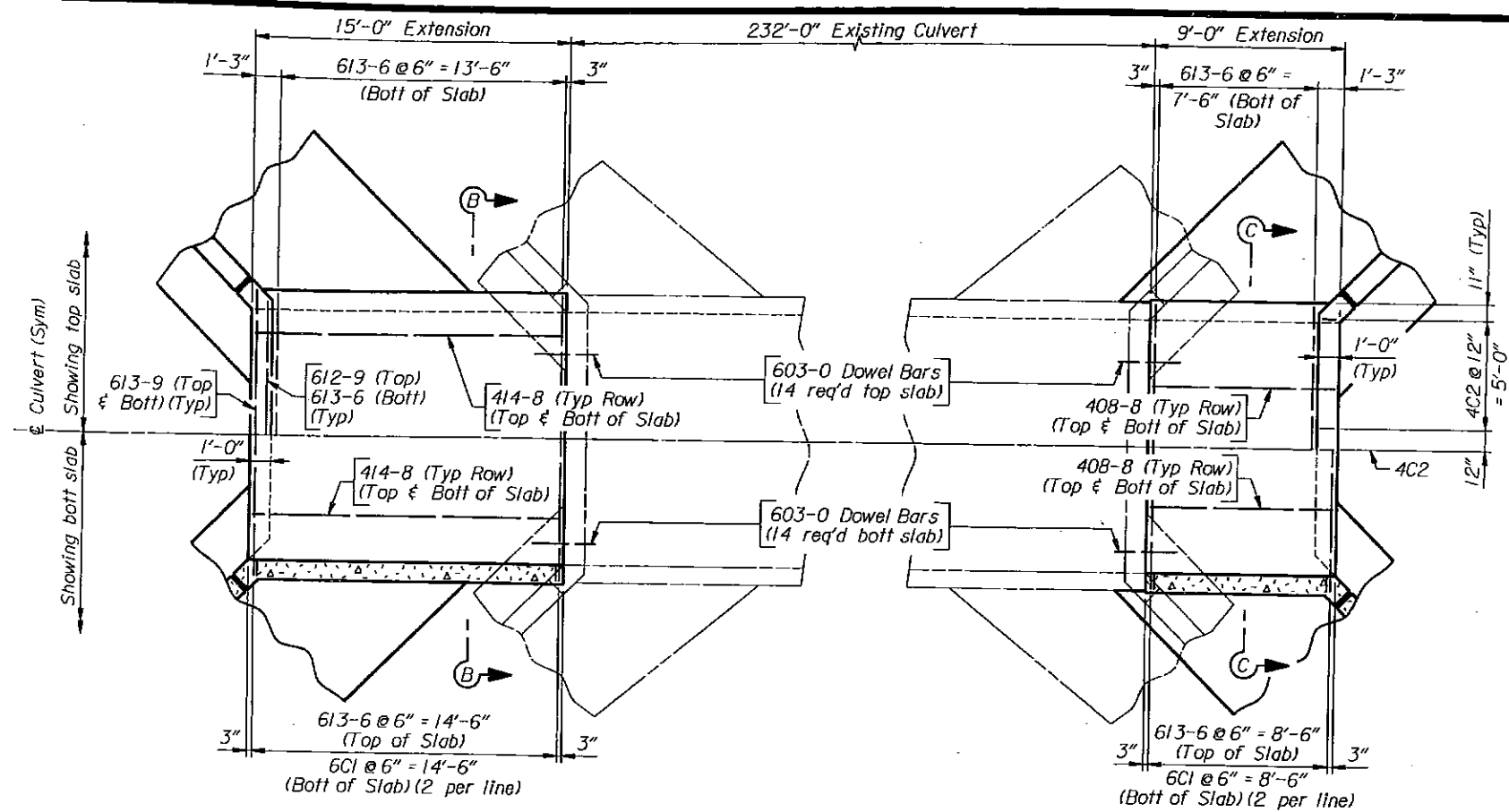


SECTION A-A

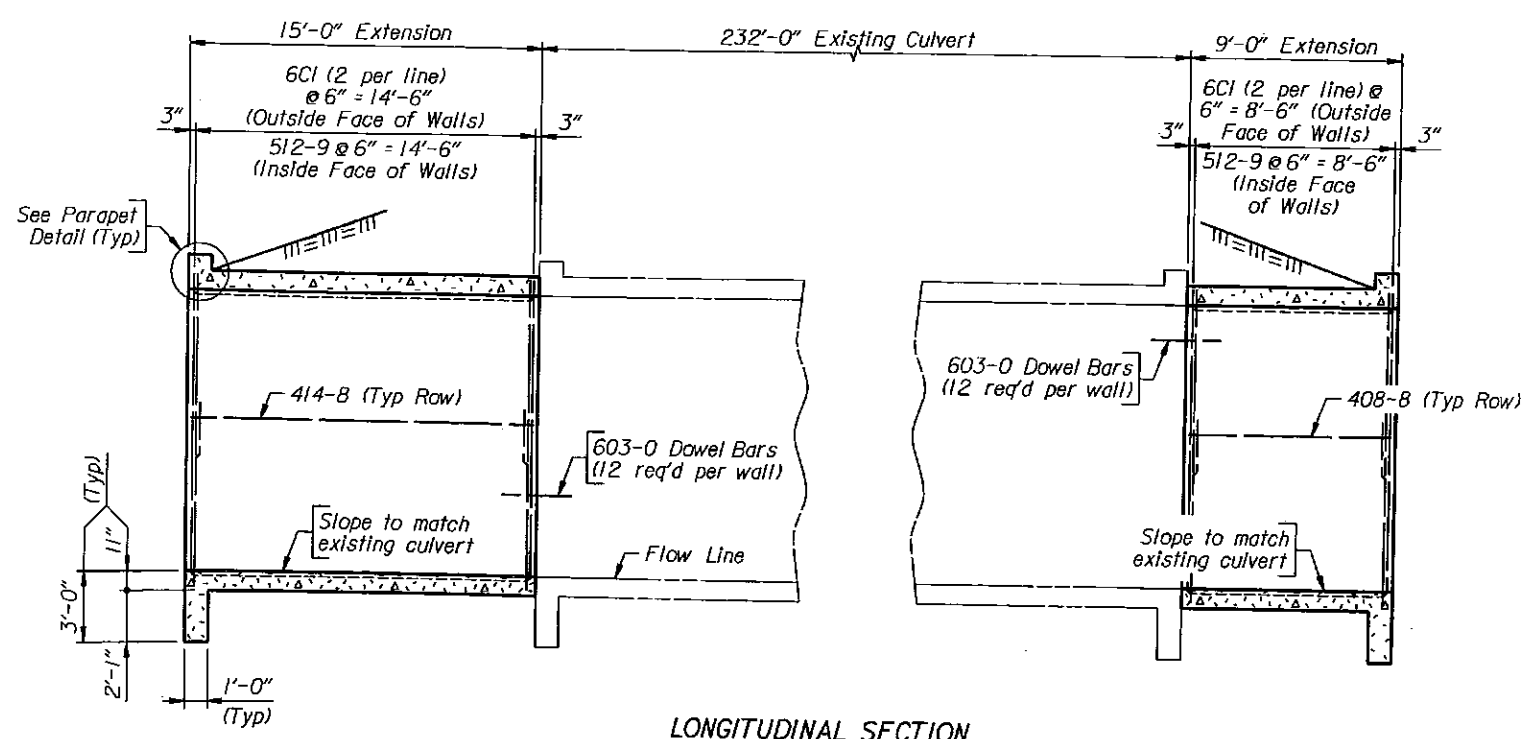
Note: After removing wingwalls, paint exposed reinforcing steel in the existing culvert with two coats of zinc rich paint conforming to the requirements of ASTM A 780.

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM			
CULVERT DETAILS			
SINGLE BARREL 12'-0" X 12'-0"			
CONCRETE BOX CULVERT EXTENSION			
Chain-Up Areas			
Evanston - Green River			
1801174		U1	
APPROVED <i>Kidder</i>	DESIGN JWR BC	Design Section J R Booher	
DATE 10-25-2011	DETAL DER BC	Drwg. No. 7472 Sheet 3 of 6	
	D.S. DER BC		





PLAN

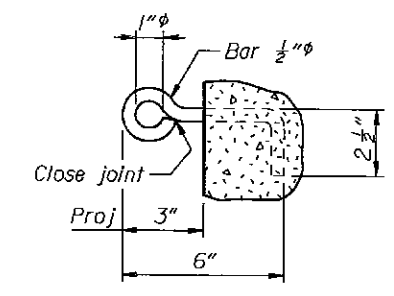
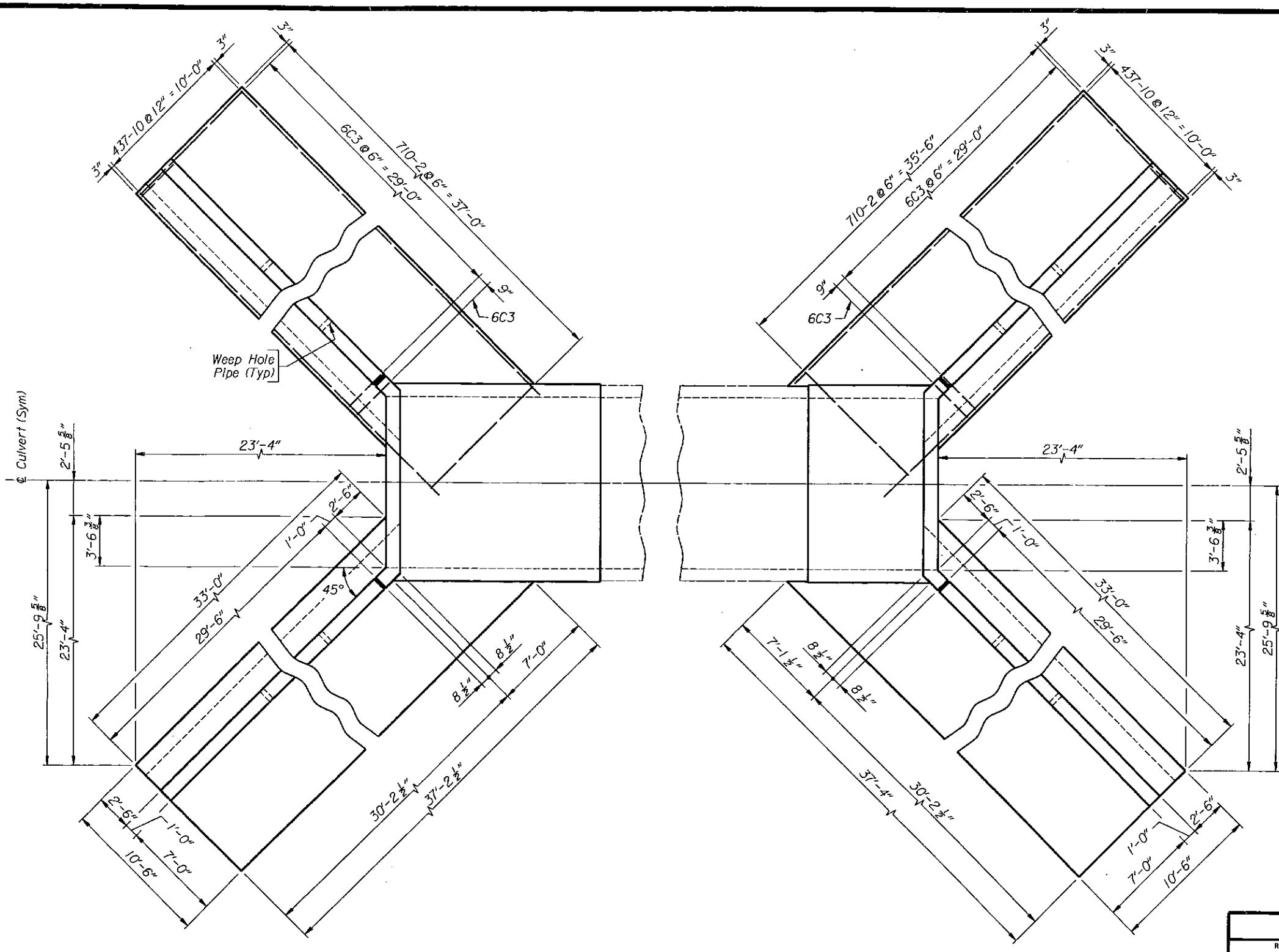


LONGITUDINAL SECTION  
 (Showing reinforcing steel placed in walls)

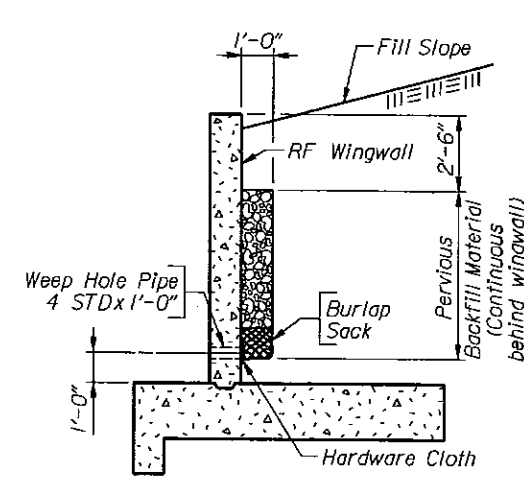
BILL OF REINFORCEMENT			
Location	Mark	Number Required	Bending Diagrams
Bottom Slabs & Footings	408-8	30	
	414-8	30	
	437-10	44	
	6C1	96	
	6C3	240	
	603-0	28	
	613-6	48	
	710-2	294	
	Weight	13481 LB	
	Walls	408-8	
414-8		48	
512-9		96	
6C1		96	
603-0		48	
613-4		4	
Weight		4581 LB	
4C2		26	
Top Slabs & Parapets	408-8	30	
	414-8	30	
	603-0	28	
	612-9	2	
	613-6	46	
	613-9	4	
	Weight	1723 LB	
	4C2	26	
Wingwalls	405-0	4	
	409-3	4	
	413-5	4	
	417-8	4	
	421-10	4	
	426-1	4	
	429-1	24	
	629-11	8	
	Set Bars	4	
	Weight	4369 LB	

Note: 1) Center 603-0 dowel bars in existing slabs and walls, embed 1'-6" into existing culvert, and set with an adhesive anchorage system.  
 2) For Sections B-B and C-C, see Sheet No. 6.  
 3) For Parapet Detail, see Sheet No. 3.

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM			
CULVERT DETAILS			
SINGLE BARREL 12'-0" X 12'-0"			
CONCRETE BOX CULVERT EXTENSION			
Chain-Up Areas			
Evanston - Green River			
IBO1174		UI	
DESIGN JWR / BC	DETAIL DER / BC	Design Section J R Booher	
DATE 10.25.20K	D.S. DER / BC	Drwg. No. 7472	Sheet 4 of 6



**EYEBOLT DETAIL**  
 (16 req'd for securing fence)

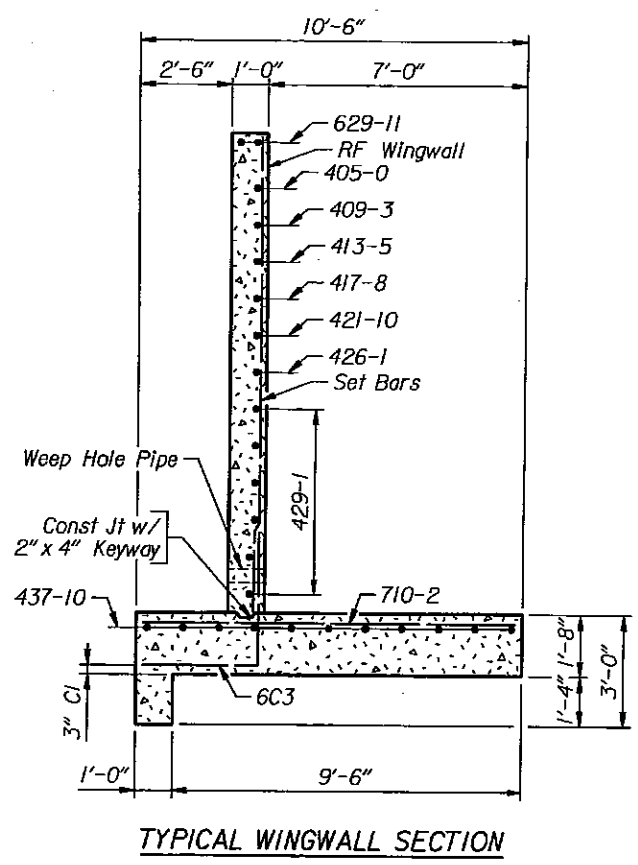
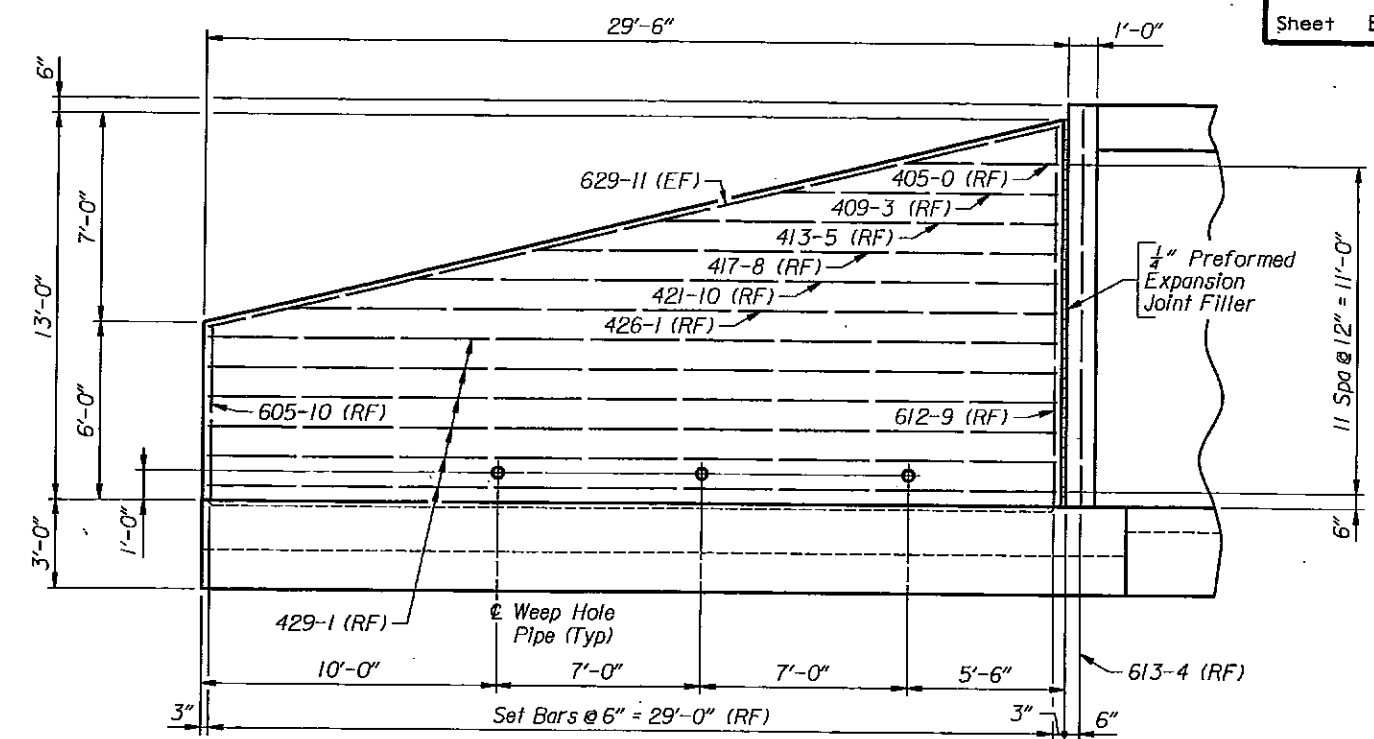
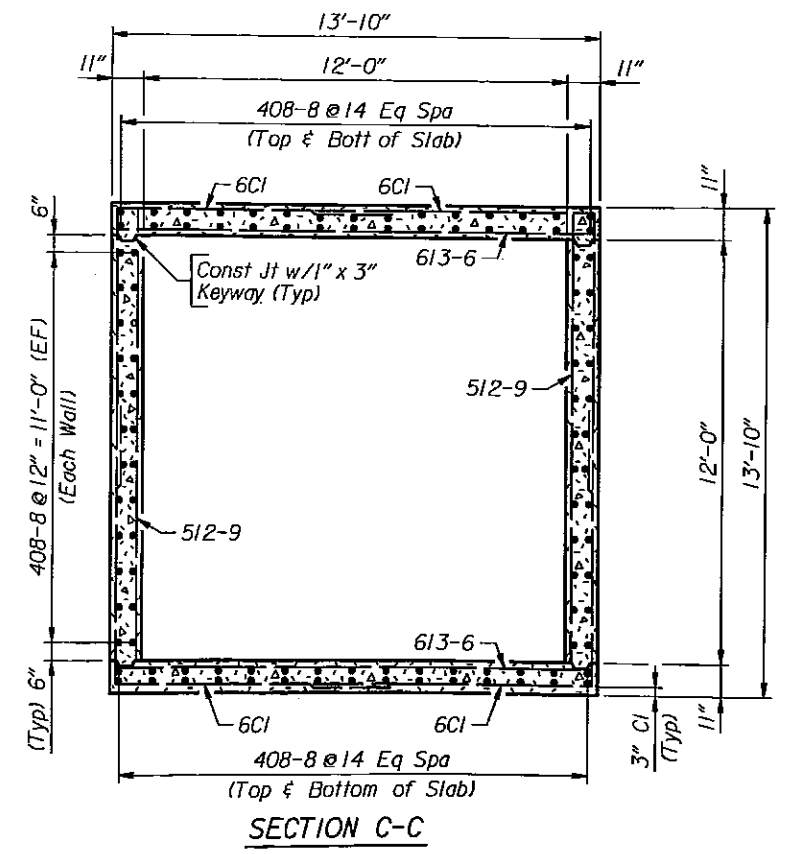
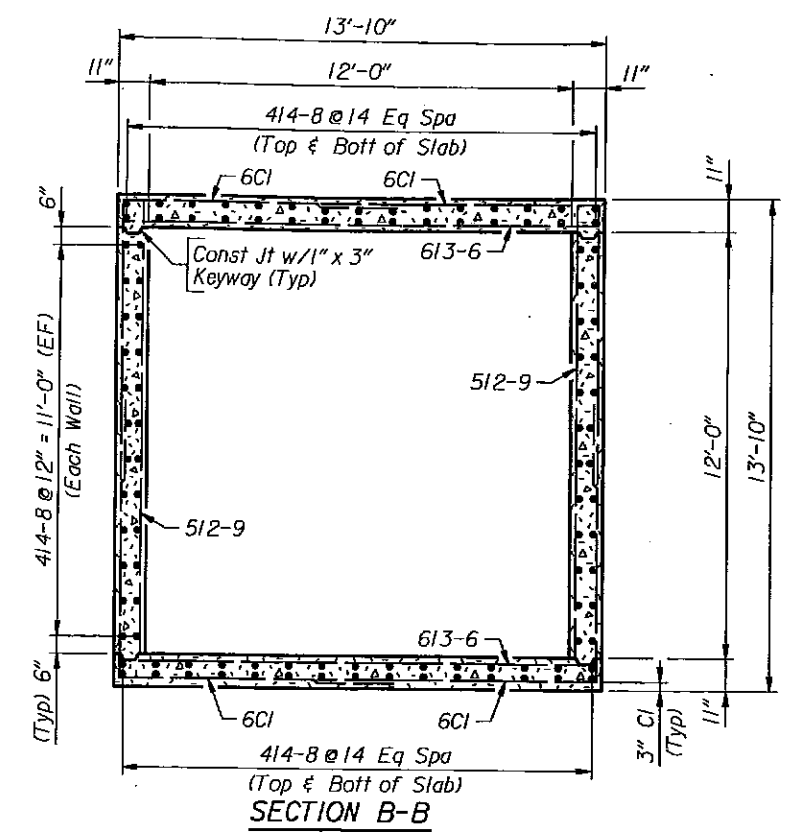


**WEEP HOLE ASSEMBLY DETAIL**

- Note: 1) Field cut 437-10 Bars to maintain 2" clearance from existing culvert at outlet end.  
 2) Each weep hole assembly consists of a pipe 4 STD through the wingwall, one 6" x 6" piece of aluminum or galvanized steel wire 4 mesh hardware cloth (Minimum wire diameter 0.03") centered over pipe end and firmly anchored to rear face of wingwall, and one cubic foot of coarse aggregate in a securely tied burlap sack.

WINGWALL PLAN

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM			
REVISIONS	CULVERT DETAILS		
	SINGLE BARREL 12'-0" X 12'-0"		
	CONCRETE BOX CULVERT EXTENSION Chain-Up Areas Evanston - Green River		
	1801174		UI
APPROVED <i>J.R. Booher</i> DATE 10-25-2011	DESIGN JWR ✓ BC DETAIL DER ✓ BC D.S. DER ✓ BC	Design Section J R Booher Drwg. No. 7472 Sheet 5 of 6	



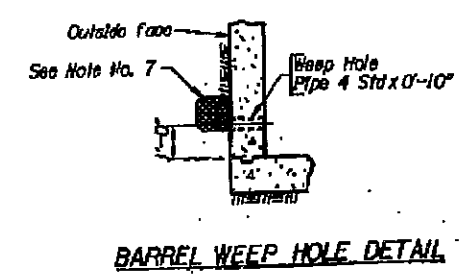
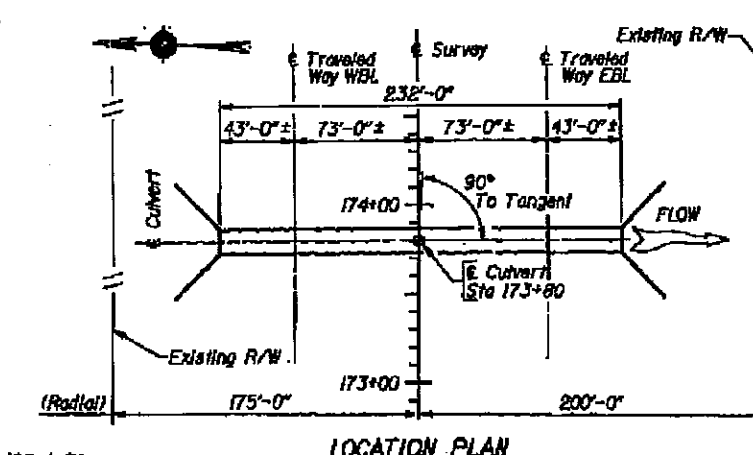
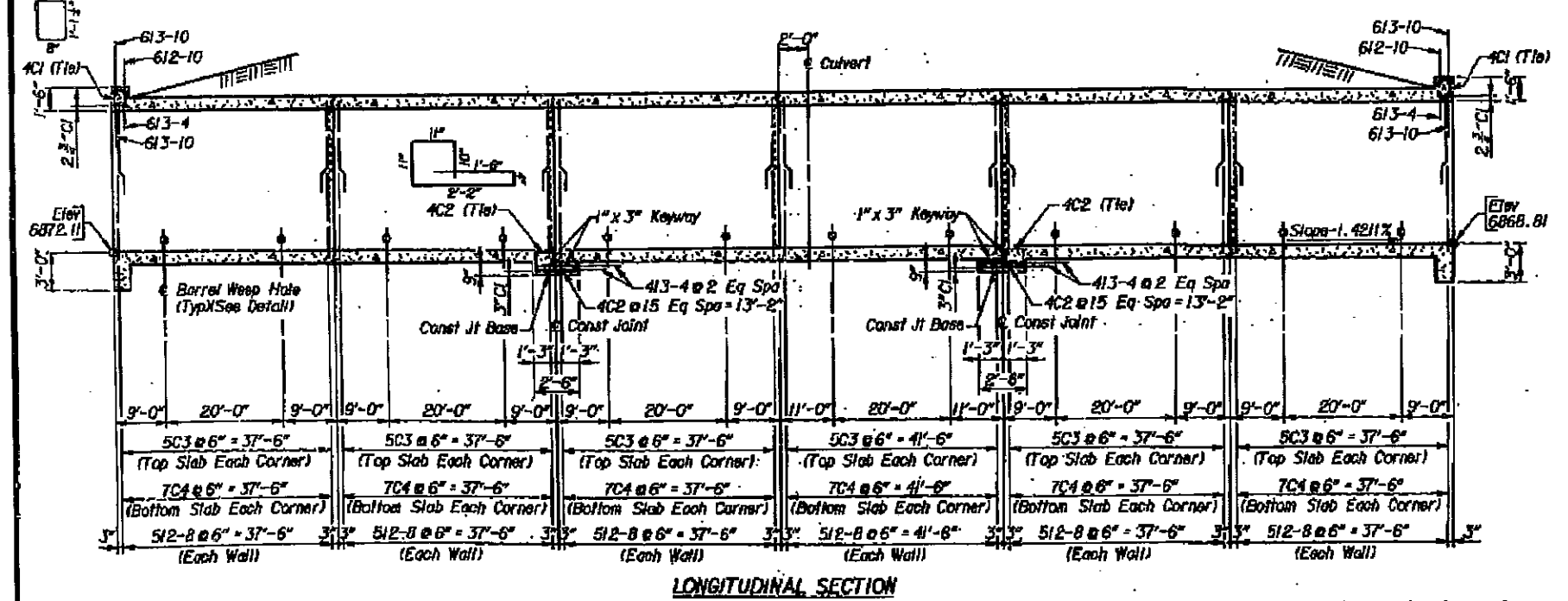
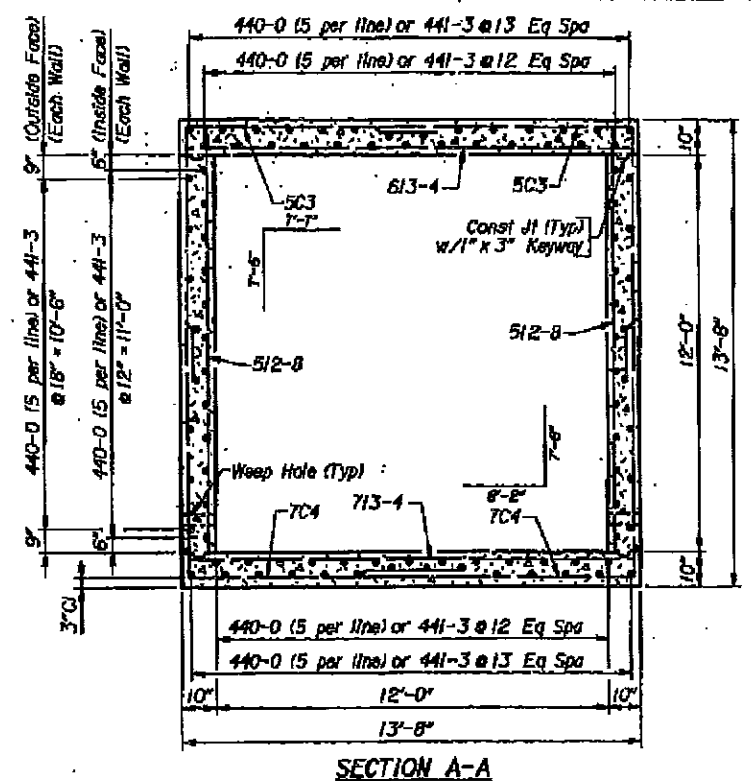
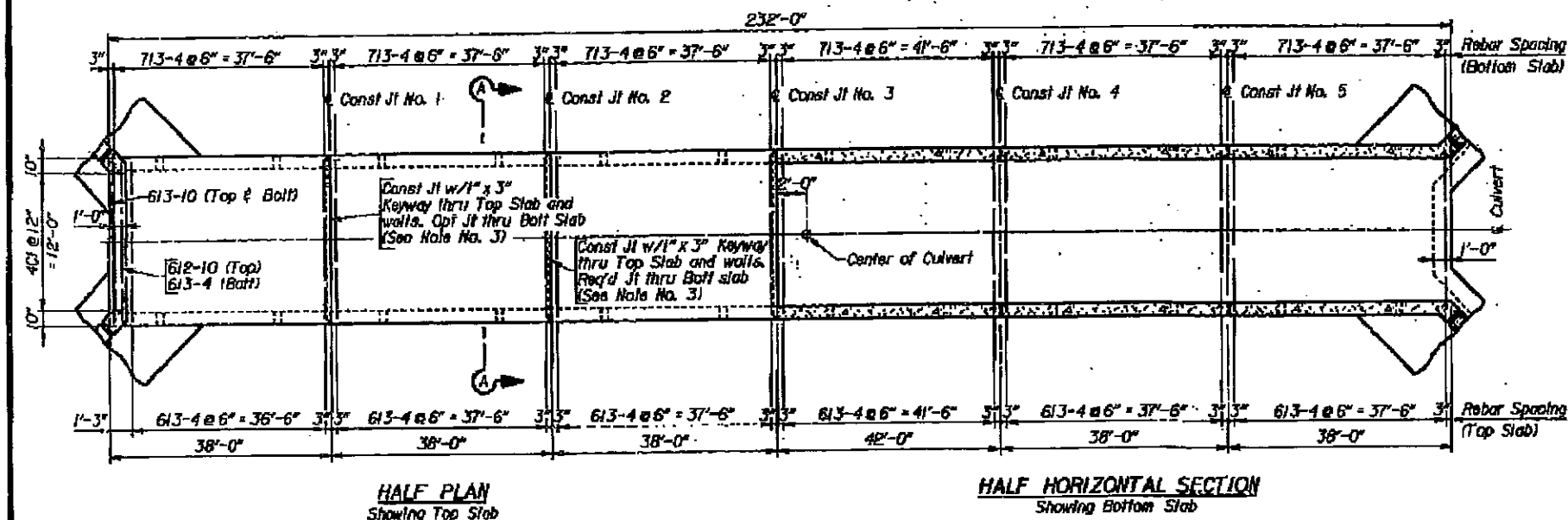
Note: 1) For location of Sections B-B and C-C, see Sheet No. 4.  
 2) Place short leg of 6C3 bars in footing.  
 3) Place Set Bars and 613-4 bars with 6C3 bars.

WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM			
<b>CULVERT DETAILS</b>			
<b>SINGLE BARREL 12'-0" X 12'-0"</b>			
<b>CONCRETE BOX CULVERT EXTENSION</b>			
Chain-Up Areas			
Evanston - Green River			
1801174		UI	
DESIGN	JWR ✓ BC	Design Section J R Booher	
DETAIL	DER ✓ BC		
D.S.	DER ✓ BC	Drwg. No. 7472 Sheet 6 of 6	
APPROVED	<i>Handwritten Signature</i>		
DATE	10-25-2011		

# FOR REFERENCE ONLY

Wyo. Proj. 180174  
Sheet B7 of B8 Sheets

Wyo. Proj. 80-103717  
Sheet 62 of 65 Sheets

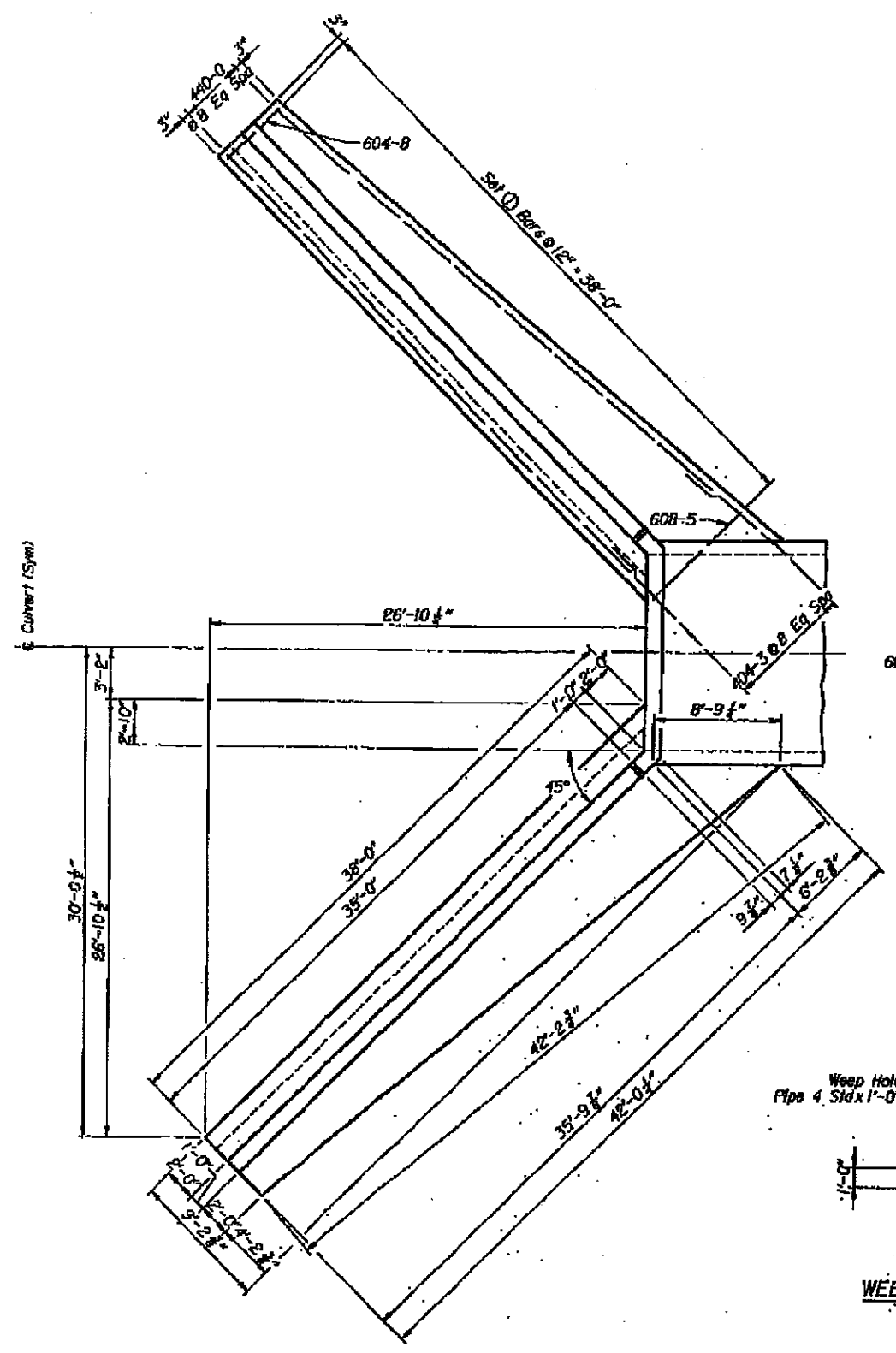


- Notes:**
- 1) The estimated quantity of Class B Concrete is 462.4 Cy.
  - 2) The reinforcing steel fabricator shall prefix all bar marks this station with numeral 1.
  - 3) Construction joints in top slab and walls are required at all 5 locations. Construction joints in bottom slab are required at locations 2 and 4 and are optional at locations 1, 3 and 5. If the contractor elects to use the optional construction joints, the dimensions and reinforcing steel shall be identical to the required joints.
  - 4) Place short end of 5C3 and 7C4 bars in culvert walls.
  - 5) Lap 440-0 bars with 441-3 bars 1'-11" (min).
  - 6) Spacing of vertical reinforcing steel in walls may be adjusted at location of weep holes.
  - 7) One cu ft of coarse aggregate in a burlap sack, securely tied, 6" aluminum or galvanized steel wire 4 mesh hardware cloth anchored firmly to outside face. (Min wire diameter 0.03")

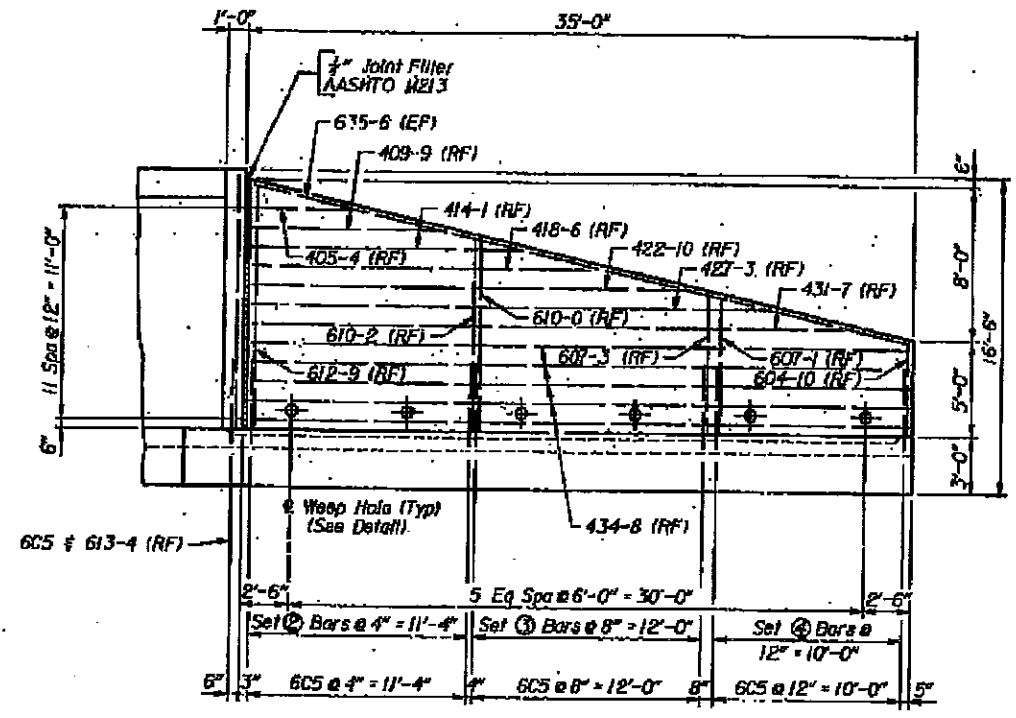
WYOMING DEPARTMENT OF TRANSPORTATION	
PROJECT NUMBER	
CULVERT DETAILS	
SINGLE BARREL 12'-0" x 12'-0"	
RC BOX CULVERT	
STA 173+80	
Evanston - Granger Jct Road	
80-103717	
DESIGNED BY	U1
DRWN BY	J. L. Ellerman
CHECKED BY	6061
DATE	2 of 3

# FOR REFERENCE ONLY

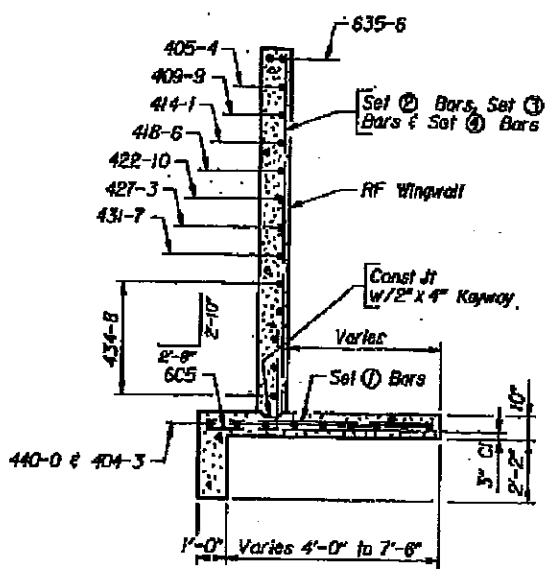
Wyo. Proj. 1801174  
 Sheet B8 of B8 Sheets  
 Wyo. Proj. 80-113717  
 Sheet B3 of B22 Sheets



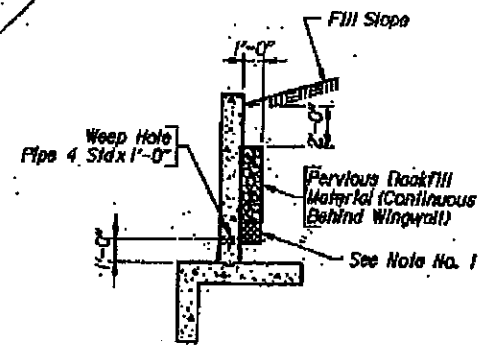
WINGWALL PLAN



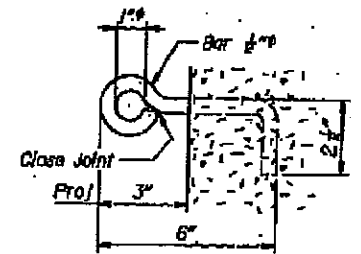
TYPICAL WINGWALL ELEVATION



TYPICAL WINGWALL SECTION



WEEP HOLE DETAIL



EYEBOLT DETAIL  
 (16 Req'd for securing fence)

- Notes:
- 1) One cu ft of coarse aggregate in a burlap sack, securely tied. 6"x aluminum or galvanized steel wire 4 mesh hardware cloth anchored firmly to rear face. (Min wire diameter 0.03")
  - 2) Lap 404-3 bars with 440-0 bars 1'-5" min.
  - 3) The reinforcing steel fabricator shall prefix all bar marks this station with numeral 1.
  - 4) Spacing of vertical reinforcing steel in wingwall may be adjusted at location of weep holes.

WYOMING DEPARTMENT OF TRANSPORTATION	
CULVERT DETAILS	
SINGLE BARREL 12'-0" x 12'-0"	
RC BOX CULVERT	
STA 173+80	
Evanston - Granger Jet Road	
80-113717	
DATE: 5-24-71	DESIGN: J.L. Ellerman
BY: R.V.G. G.C.	PROJECT: 6061
	SHEET: 3 OF 3