



Farmers Rural Electric Cooperative Corporation

504 S. Broadway, Glasgow, KY 42141 • P.O. Box 1298, Glasgow, KY 42142 • (270) 651-2191 • Fax (270) 651-7332

Underground Facility Drawing Specifications

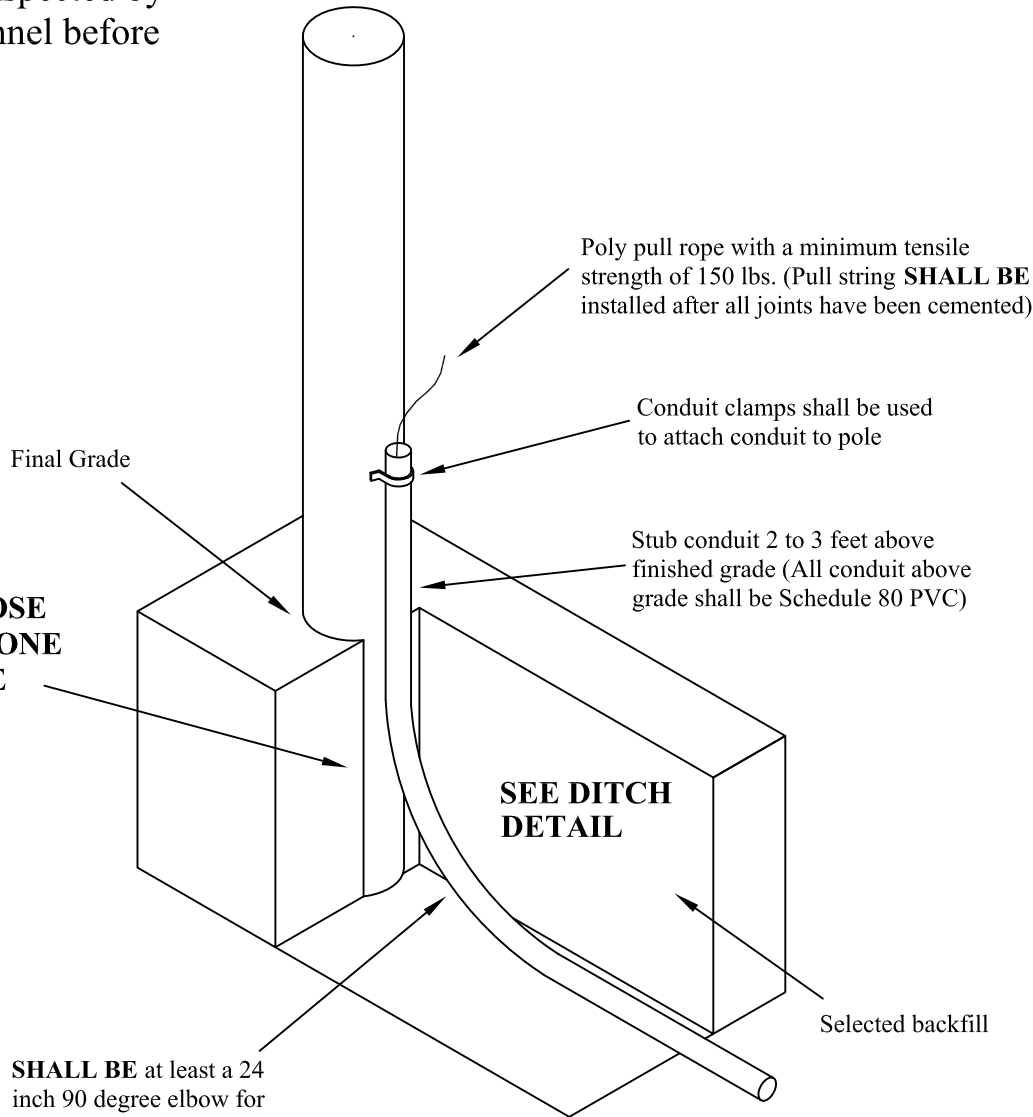
www.farmersrecc.com

A Touchstone Energy™ Cooperative 

The Touchstone Energy logo consists of a stylized human figure with arms raised, formed by three curved lines in red, blue, and yellow.

The ditch and conduit system **SHALL BE** inspected by FRECC personnel before backfilling

DO NOT EXPOSE MORE THAN ONE SIDE OF POLE



SHALL BE at least a 24 inch 90 degree elbow for secondary
SHALL BE at least a 36 inch 90 degree elbow for primary

NOTES:

See appropriate "Ditch Detail" specification for dimensions and requirements

Member/Developer **SHALL** coordinate with FRECC personnel about the location of the conduit riser before installation

All conduit **SHALL BE** furnished and installed by the member/developer


All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit above grade **SHALL BE** Schedule 80 Electrical Grade PVC

All conduit joints **SHALL BE** cemented

All selected backfill **SHALL BE** free from stones, rock, or other material which may damage the conduit system

All conduit **SHALL BE** temporarily capped to prevent water or debris from entering the system

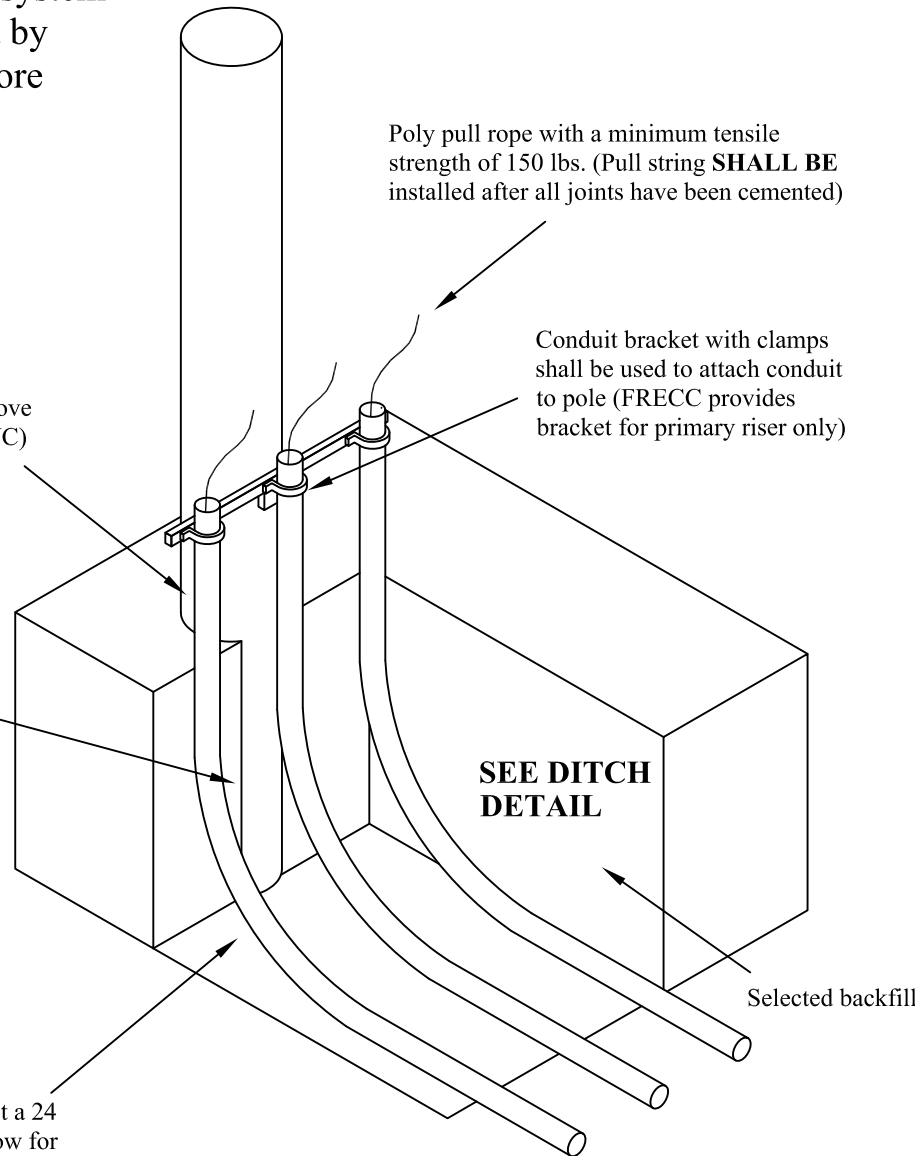
	Farmers Rural Electric Cooperative Corp. 504 S. Broadway, Glasgow, KY 42141 P.O. Box 1298, Glasgow, KY 42142 (270) 651-2191 Office (270) 651-7332 Fax	
	SPECIFICATION: Riser Detail - Single Conduit (Prim or Sec)	
DRAWN BY: Chuck Bishop	DATE: 12/1/2008	
APPROVED BY: Chuck Bishop	DATE: 12/1/2008	
SCALE: None	NOTES:	

The ditch and conduit system **SHALL BE** inspected by FRECC personnel before backfilling

Stub conduit 2 to 3 feet above finished grade (All conduit above grade shall be Schedule 80 PVC)

DO NOT EXPOSE MORE THAN ONE SIDE OF POLE

SHALL BE at least a 24 inch 90 degree elbow for secondary
SHALL BE at least a 36 inch 90 degree elbow for primary



Poly pull rope with a minimum tensile strength of 150 lbs. (Pull string **SHALL BE** installed after all joints have been cemented)

Conduit bracket with clamps shall be used to attach conduit to pole (FRECC provides bracket for primary riser only)

SEE DITCH DETAIL

Selected backfill

NOTES:

See appropriate "Ditch Detail" specification for dimensions and requirements

Member/Developer **SHALL** coordinate with FRECC personnel about the location of the conduit riser before installation

All conduit **SHALL BE** furnished and installed by the member/developer


All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit above grade **SHALL BE** Schedule 80 Electrical Grade PVC

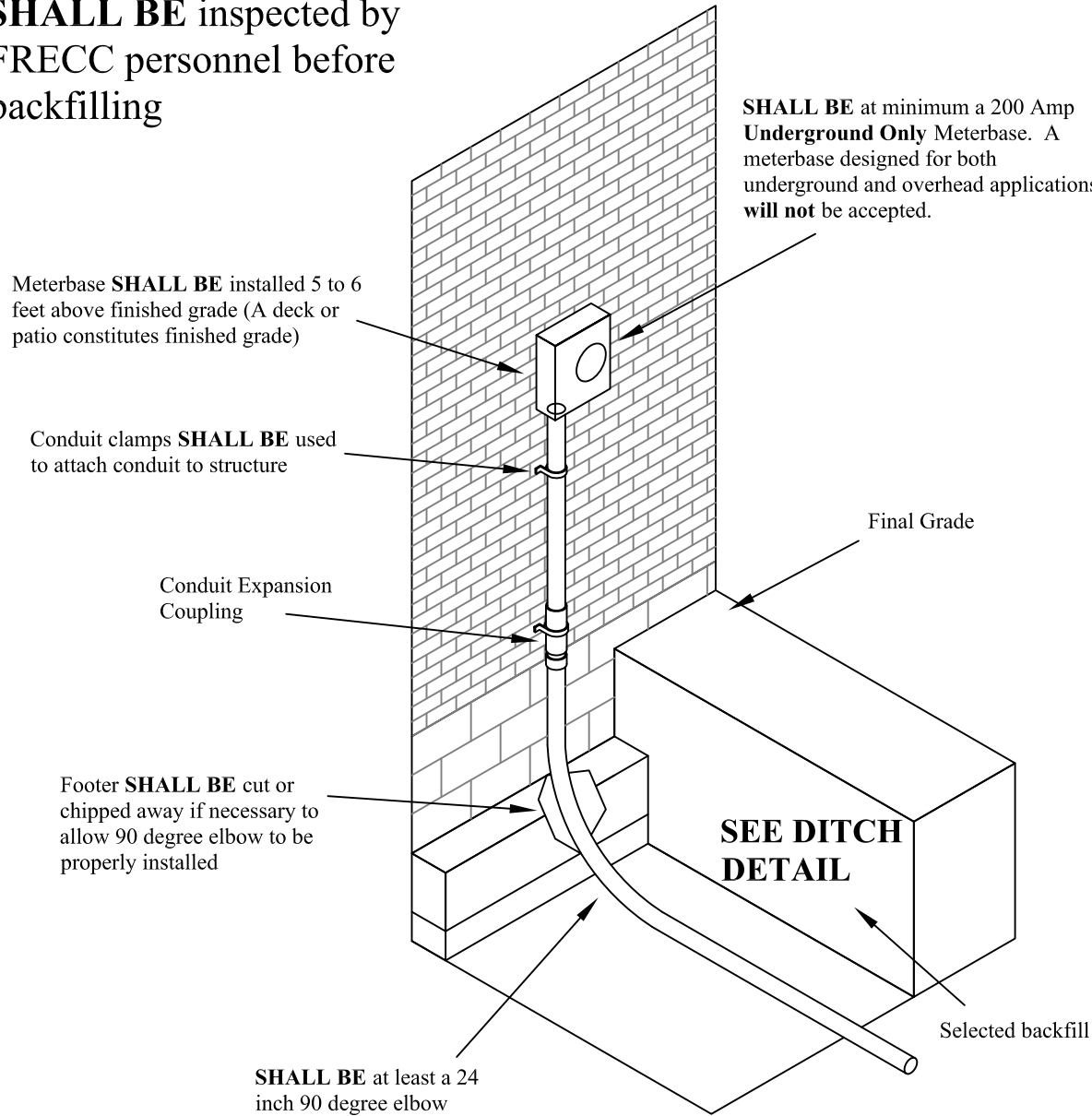
All conduit joints **SHALL BE** cemented

All selected backfill **SHALL BE** free from stones, rock, or other material which may damage the conduit system

All conduit **SHALL BE** temporarily capped to prevent water or debris from entering the system

		Farmers Rural Electric Cooperative Corp. 504 S. Broadway, Glasgow, KY 42141 P.O. Box 1298, Glasgow, KY 42142 (270) 651-2191 Office (270) 651-7332 Fax	
		SPECIFICATION: Riser Detail - Multiple Conduits (Prim or Sec)	
DRAWN BY:		DATE:	
Chuck Bishop		12/1/2008	
APPROVED BY:		DATE:	
Chuck Bishop		12/1/2008	
SCALE:	NOTES:		
None			

The ditch and conduit system
SHALL BE inspected by
 FRECC personnel before
 backfilling



NOTES:

See appropriate "Ditch Detail" specification for ditch dimensions and requirements

Member/Developer **SHALL** coordinate with FRECC personnel about the location of the meterbase before installation

All conduit **SHALL BE** furnished and installed by the member/developer


All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit above grade **SHALL BE** Schedule 80 Electrical Grade PVC

All conduit joints **SHALL BE** cemented

A poly pull rope with a minimum 150 lb tensile strength **SHALL BE** used (Pull rope **SHALL BE** installed after all joints have been cemented)

All selected backfill **SHALL BE** free from stones, rock, or other material which may damage the conduit system

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		SPECIFICATION: Riser Detail - UG Meterbase on Structure	
DRAWN BY:		DATE:	
Chuck Bishop		12/1/2008	
APPROVED BY:		DATE:	
Chuck Bishop		12/1/2008	
SCALE:	NOTES:		
None			

The ditch and conduit system
SHALL BE inspected by
FRECC personnel before
backfilling

SHALL BE at minimum a 200 Amp
Underground Only Meterbase. A
meterbase designed for both
underground and overhead applications
will not be accepted.

Meterbase **SHALL BE** installed 5 to 6
feet above finished grade (A deck or
patio constitutes finished grade)

6"x6" treated post

Conduit clamps **SHALL BE** used
to attach conduit to structure

Conduit Expansion
Coupling

Final Grade

**SEE DITCH
DETAIL**

SHALL BE at least a 24
inch 90 degree elbow

Selected backfill

NOTES:

See appropriate "Ditch Detail" specification for ditch
dimensions and requirements

Member/Developer **SHALL** coordinate with FRECC
personnel about the location of the meterbase before
installation

All conduit **SHALL BE** furnished and installed by the
member/developer


All conduit **SHALL BE** 3 inch Schedule 40 Electrical
Grade PVC unless otherwise specified

All conduit above grade **SHALL BE** Schedule 80
Electrical Grade PVC

All conduit joints **SHALL BE** cemented

A poly pull rope with a minimum 150 lb tensile strength
SHALL BE used (Pull rope **SHALL BE** installed after all
joints have been cemented)

All selected backfill **SHALL BE** free from stones, rock, or
other material which may damage the conduit system

	Farmers Rural Electric Cooperative Corp. 504 S. Broadway, Glasgow, KY 42141 P.O. Box 1298, Glasgow, KY 42142 (270) 651-2191 Office (270) 651-7332 Fax	
	SPECIFICATION: Riser Detail - UG Meterbase on Pedestal (Opt 1)	
DRAWN BY: Chuck Bishop	DATE: 12/1/2008	
APPROVED BY: Chuck Bishop	DATE: 12/1/2008	
SCALE: None	NOTES:	

The ditch and conduit system
SHALL BE inspected by
 FRECC personnel before
 backfilling

Meterbase **SHALL BE** installed 5 to 6 feet above finished grade (A deck or patio constitutes finished grade)

6"x6" treated post

Conduit clamps **SHALL BE** used to attach conduit to structure

Conduit Expansion Coupling

SHALL BE at minimum a 200 Amp **Underground Only** Meterbase. A meterbase designed for both underground and overhead applications **will not** be accepted.

Final Grade

**SEE DITCH
 DETAIL**

SHALL BE at least a 24 inch 90 degree elbow

Selected backfill

NOTES:

See appropriate "Ditch Detail" specification for ditch dimensions and requirements

Member/Developer **SHALL** coordinate with FRECC personnel about the location of the meterbase before installation

All conduit **SHALL BE** furnished and installed by the member/developer


All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit above grade **SHALL BE** Schedule 80 Electrical Grade PVC

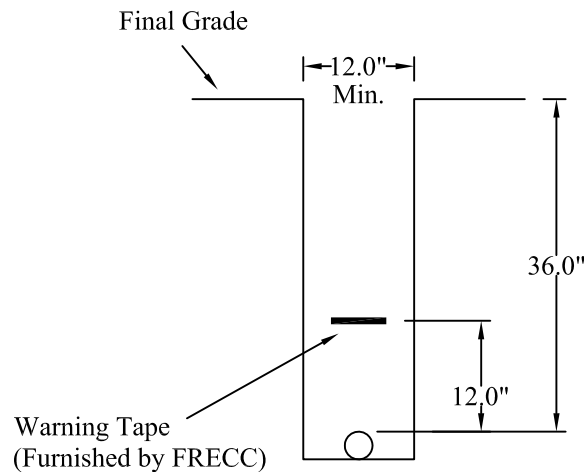
All conduit joints **SHALL BE** cemented

A poly pull rope with a minimum 150 lb tensile strength **SHALL BE** used (Pull rope **SHALL BE** installed after all joints have been cemented)

All selected backfill **SHALL BE** free from stones, rock, or other material which may damage the conduit system

	Farmers Rural Electric Cooperative Corp. 504 S. Broadway, Glasgow, KY 42141 P.O. Box 1298, Glasgow, KY 42142 (270) 651-2191 Office (270) 651-7332 Fax	
	SPECIFICATION: Riser Detail - UG Meterbase on Pedestal (Opt 2)	
DRAWN BY: Chuck Bishop	DATE: 12/1/2008	
APPROVED BY: Chuck Bishop	DATE: 12/1/2008	
SCALE: None	NOTES:	

The ditch and conduit system **SHALL BE** inspected by FRECC personnel before backfilling



NOTES:

Precautions **SHALL BE** made to prevent excavated material from falling into the ditch

All conduit **SHALL BE** furnished and installed by the member/developer

All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit below driveways or other area subject to vehicle traffic **SHALL BE** Schedule 80 Electrical Grade PVC

Elbows **SHALL NOT BE** used except at locations specified in "Riser Detail" drawings

All conduit joints **SHALL BE** cemented

Foreign utilities **SHALL NOT** use the same ditch as the FRECC conduit system (See Communication Exception)


All foreign utility crossings **SHALL BE** made at 90 degrees and **SHALL** maintain a minimum 12 inches of vertical separation from the FRECC conduit system

All selected backfill **SHALL BE** free from stones, rock, or other material which might damage conduit system

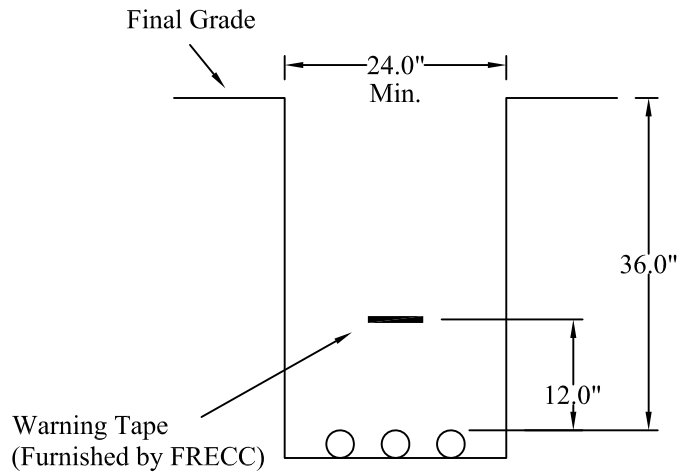
Communication Utilities Exceptions:

Communication cables maintaining 12 inches of vertical separation from the FRECC conduit system may be installed in the same ditch

Communication cables installed in Electrical Grade PVC may be adjacent to the FRECC conduit system in the same ditch

		Farmers Rural Electric Cooperative Corp. 504 S. Broadway, Glasgow, KY 42141 P.O. Box 1298, Glasgow, KY 42142 (270) 651-2191 Office (270) 651-7332 Fax	
SPECIFICATION: Ditch Detail - Single Primary Conduit			
DRAWN BY:		DATE:	
Chuck Bishop		12/1/2008	
APPROVED BY:		DATE:	
Chuck Bishop		12/1/2008	
SCALE:	NOTES:		
None			

The ditch and conduit system **SHALL BE** inspected by FRECC personnel before backfilling



NOTES:

Precautions **SHALL BE** made to prevent excavated material from falling into the ditch

All conduit **SHALL BE** furnished and installed by the member/developer

All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit below driveways or other area subject to vehicle traffic **SHALL BE** Schedule 80 Electrical Grade PVC

Elbows **SHALL NOT BE** used except at locations specified in "Riser Detail" drawings

All conduit joints **SHALL BE** cemented

Foreign utilities **SHALL NOT** use the same ditch as the FRECC conduit system (See Communication Exception)


All foreign utility crossings **SHALL BE** made at 90 degrees and **SHALL** maintain a minimum 12 inches of vertical separation from the FRECC conduit system

All selected backfill **SHALL BE** free from stones, rock, or other material which might damage conduit system

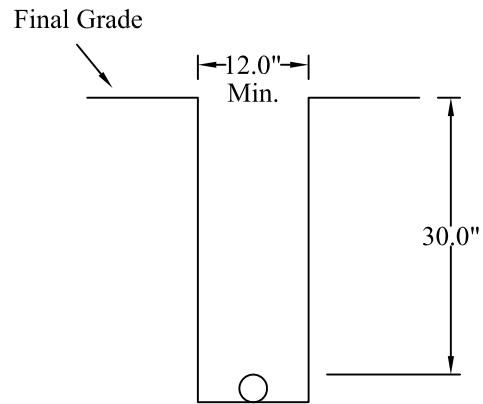
Communication Utilities Exceptions:

Communication cables maintaining 12 inches of vertical separation from the FRECC conduit system may be installed in the same ditch

Communication cables installed in Electrical Grade PVC may be adjacent to the FRECC conduit system in the same ditch

 FARMERS RECC <small>A Sustainable Energy Cooperative</small>		Farmers Rural Electric Cooperative Corp. 504 S. Broadway, Glasgow, KY 42141 P.O. Box 1298, Glasgow, KY 42142 (270) 651-2191 Office (270) 651-7332 Fax	
		SPECIFICATION: Ditch Detail - Multiple Primary Conduits	
DRAWN BY: Chuck Bishop	DATE: 12/1/2008	APPROVED BY: Chuck Bishop	DATE: 12/1/2008
SCALE: None	NOTES:		

The ditch and conduit system **SHALL BE** inspected by FRECC personnel before backfilling



NOTES:

Precautions **SHALL BE** made to prevent excavated material from falling into the ditch

All conduit **SHALL BE** furnished and installed by the member/developer

All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

All conduit below driveways or other area subject to vehicle traffic **SHALL BE** Schedule 80 Electrical Grade PVC

Elbows **SHALL NOT BE** used except at locations specified in "Riser Detail" drawings

All conduit joints **SHALL BE** cemented

Foreign utilities **SHALL NOT** use the same ditch as the FRECC conduit system (See Communication Exception)


All foreign utility crossings **SHALL BE** made at 90 degrees and **SHALL** maintain a minimum 12 inches of vertical separation from the FRECC conduit system

All selected backfill **SHALL BE** free from stones, rock, or other material which might damage conduit system

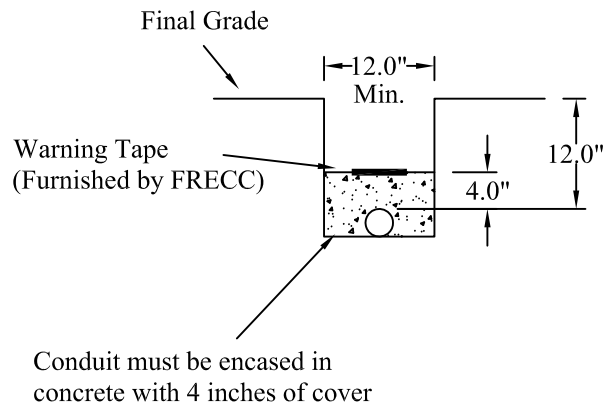
Communication Utilities Exceptions:

Communication cables maintaining 12 inches of vertical separation from the FRECC conduit system may be installed in the same ditch

Communication cables installed in Electrical Grade PVC may be adjacent to the FRECC conduit system in the same ditch

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		SPECIFICATION: Ditch Detail - Secondary Conduit	
DRAWN BY:		DATE:	
Chuck Bishop		12/1/2008	
APPROVED BY:		DATE:	
Chuck Bishop		12/1/2008	
SCALE:	NOTES:		
None			

The ditch and conduit system **SHALL BE** inspected by FRECC personnel before backfilling



NOTES:

Precautions **SHALL BE** made to prevent excavated material from falling into the ditch

All conduit **SHALL BE** furnished and installed by the member/developer

All conduit **SHALL BE** 3 inch Schedule 40 Electrical Grade PVC unless otherwise specified

Elbows **SHALL NOT BE** used except at locations specified in "Riser Detail" drawings

All conduit joints **SHALL BE** cemented

All concrete **SHALL BE** completed by member/developer


Foreign utilities **SHALL NOT** use the same ditch as the FRECC conduit system (See Communication Exception)

All selected backfill **SHALL BE** free from stones, rock, or other material which might damage conduit system

Communication Utilities Exceptions:

Communication cables installed in Electrical Grade PVC may be adjacent to the FRECC conduit system in the same ditch

Communication cables not installed in Electrical Grade PVC may be installed in the same ditch as the FRECC conduit system above the concrete encasement

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		SPECIFICATION: Ditch Detail - Reduced Depth	
DRAWN BY:		DATE:	
Chuck Bishop		12/1/2008	
APPROVED BY:		DATE:	
Chuck Bishop		12/1/2008	
SCALE:	NOTES:		
None			