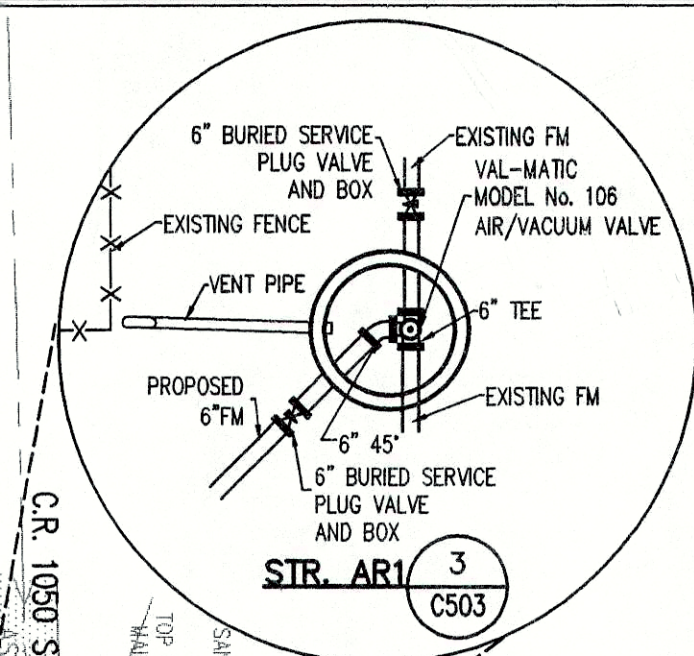


Contents To Be Handled	Carrier Pipe	Casing Pipe
Outside Diameter	6.625"	12"
Pipe Material	HDPE	Steel
Specification And Grade	Dr 9 - 200 Psi	35,000 Psi Yield Strength
Wall Thickness	0.736"	0.25"
Actual Working Pressure	45 psi	N/A
Type Of Joint	Bolted Flange Weld	Welded
Coating	N/A	Jack & Bore
Methods Of Installation	Pulled	Jack & Bore
Seals: Both Ends	Type: Brick & Mortar	
Bury: Base Of Rail To Top Of Casing	9 Ft. 0 In.	
Type, Size And Spacing Of Insulators Or Supports	N/A	
Distance C.L. Track To Face Of Jacking/receiving Pits	65 ft. 0 in.	
Bury: Base Of Rail To Bottom Jacking/receiving Pits	10 ft. 6 in.	
Cathodic Protection:	No	



BENCHMARK

BM - ABOUT 3.05 MILES NORTH ALONG STATE HIGHWAY 13 FROM ITS JUNCTION WITH STATE ROAD 336 AT FORTVILLE ABOUT 0.55 MILE NORTH OF A BRIDGE OVER FALL CREEK, AT THE JUNCTION OF A ROAD LEADING WEST 30 FEET WEST OF THE CENTERLINE OF THE HIGHWAY, 31 FEET SOUTH OF THE CENTERLINE OF THE SIDE ROAD, 14.5 FEET SOUTH OF A CONCRETE HIGHWAY RIGHT-OF-WAY MARKER POST, 1.5 FEET EAST OF THE FENCE LINE, 1.5 FEET SOUTH OF A WHITE WOODEN WINDS POST, ABOUT 10 FEET NORTH OF THE TOP OF A CONCRETE POST PROJECTING ABOUT 6 INCHES, BEING A STANDARD DISK STAMPED "1030 1947" ELEVATION = 850.48 (NGVD 29)

TM 1 - CUT "Y" ON THE NORTHERN MOST BURNED BOLT OF A FIRE HYDRANT ON THE EAST SIDE OF COUNTY ROAD 750 WEST, ABOUT 850 FEET NORTH OF COUNTY ROAD 1000 NORTH. ELEVATION = 850.975 (NGVD 29)

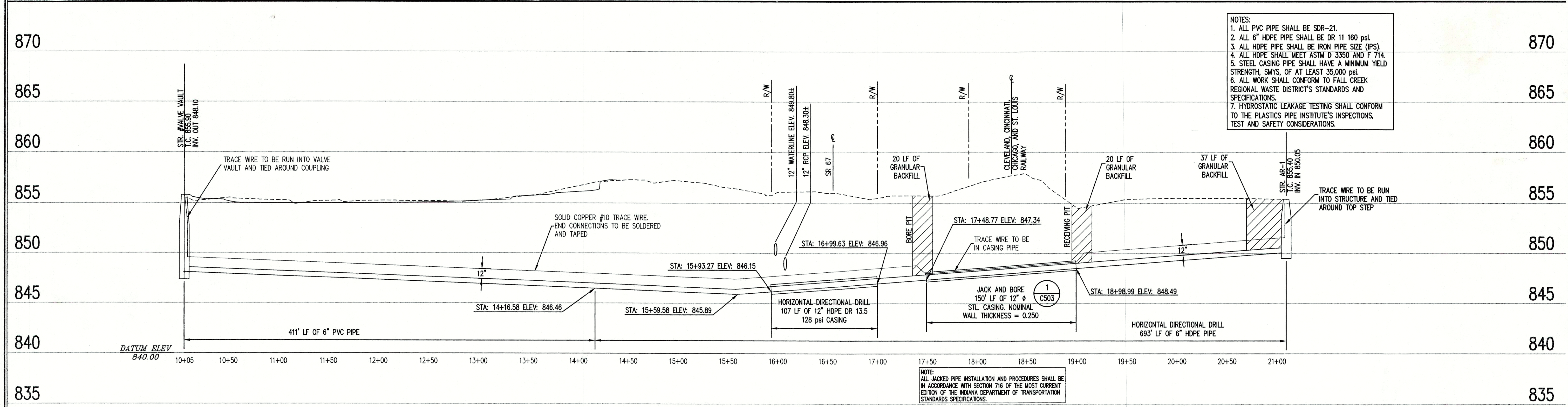
TM 2 - MAG NAIL 1.0 FEET UP ON THE EAST SIDE OF POWER POLE #47-300 ON THE SOUTH SIDE OF STATE ROAD 67, ABOUT 1300 FEET SOUTH OF STATE ROAD 67. ELEVATION = 858.075 (NGVD 29)

TM 3 - MAG NAIL 1.0 FEET UP ON THE NORTH SIDE OF POWER POLE #47-300 ON THE SOUTH SIDE OF STATE ROAD 67, ABOUT 1300 FEET SOUTHWESTERLY OF COUNTY ROAD 750 WEST. ELEVATION = 854.48 (NGVD 29)

TM 4 - MAG NAIL 1.0 FEET UP ON THE EAST SIDE OF A 60 INCH OAK TREE IN THE NORTHWEST CORNER OF THE SUBJECT TRACT. ELEVATION = 858.12 (NGVD 29)

FORCE MAIN PLAN

SCALE: 1"=50'



- NOTES:
1. ALL PVC PIPE SHALL BE SDR-21.
 2. ALL 6" HDPE PIPE SHALL BE DR 11 160 psi.
 3. ALL HDPE PIPE SHALL BE IRON PIPE SIZE (IPS).
 4. ALL HDPE SHALL MEET ASTM D 3350 AND F 714.
 5. STEEL CASING PIPE SHALL HAVE A MINIMUM YIELD STRENGTH, SMYS, OF AT LEAST 35,000 psi.
 6. ALL WORK SHALL CONFORM TO FALL CREEK REGIONAL WASTE DISTRICT'S STANDARDS AND SPECIFICATIONS.
 7. HYDROSTATIC LEAKAGE TESTING SHALL CONFORM TO THE PLASTICS PIPE INSTITUTE'S INSPECTIONS, TEST AND SAFETY CONSIDERATIONS.

NOTE:
ALL JACKED PIPE INSTALLATION AND PROCEDURES SHALL BE IN ACCORDANCE WITH SECTION 710 OF THE MOST CURRENT EDITION OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS.

FORCE MAIN PROFILE

LEGEND		
	Existing Grade	
	New Grade	
	Granular Backfill	

SCALE: HORZ.: 1"=50'
VERT.: 1"=5'

REVISED NOTES 4 AND 7. MONITOR STR. AR-1 MANHOLE DETAIL. BUB 8-18-03 REUSED PER FALL CREEK REGIONAL WASTE DISTRICT REVIEW COMMENTS. BUB

ANDREW C. COCHRANE
REGISTERED
No. 19900094
STATE OF INDIANA
PROFESSIONAL ENGINEER

DATE: 8/19/03

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Schneider

THE SCHNEIDER CORPORATION
Historic Fort Harrison
8901 Otis Avenue
Indianapolis, IN 46216-1037
Telephone: 317.826.7100
Fax: 317.826.7300
www.schneidercorp.com

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PRAIRIE HOLLOW
SECTION 1
INGALLS, INDIANA

C. P. MORGAN COMMUNITIES, L.P.
4670 HAVEN POINT BLVD., INDIANAPOLIS, IN 46280

DATE: 7/1/03 PROJECT NO.: 4496.001
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SHEET TITLE: FORCE MAIN PLAN AND PROFILE
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