



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) National Highways Authority of India

(Ministry of Road Transport & Highways, Govt. of India)

परियोजना निदेशक का कार्यालय, परियोजना कार्यान्वयन इकाई
Office of the Project Director, Project Implementation Unit

53, बसंत विहार, नौबस्ता, कानपुर - 208021 • 53, Basant Vihar, Naubasta, Kanpur - 208021
दूरभाष / Phone: (0512) 2630154 / 2630214 • ई-मेल / e-mail: knp@nhai.org



NHAI/13028/PIU/KNP/NH-27/NOC/2023/251

Date: 28 April, 2023

Invitation of Public Comments

Sub: Right of Way permission to lay HDPE Pipeline along with Highway from Km. 77.300 to Km. 77.360 (160mm dia) & crossing at Km. 77.300 (200mm Dia) and Km. 77.850 (710mm dia) on NH-27 Total section length which ROW applied 0.060 Km. in the State of U.P. -

The Authorized Signatory M/s Jajmau Tannery Effluent Treatment Association, Kanpur has submitted the proposal for grant of Right of Way permission to lay HDPE Pipeline along with Highway from Km. 77.300 to Km. 77.360 (160mm dia) & crossing at Km. 77.300 (200mm Dia) and Km. 77.850 (710mm dia) on NH-27 Total section length which ROW applied 0.060 Km. in the State of U.P.

2. From the submitted proposal, it is seen that the crossing length is proposed 60m from Ch. 77.300 to Km. 77.360 (160 mm dia) & crossing at Km. 77.300 (200mm dia) and Km. 77.850 (710mm dia) Outer Dia of the Pipeline. Execution work will be carried out through HDD with a depth of 1.5m - 3.0m from the existing ground level. Width of available ROW in LHS & RHS is 30m-30m from center of NH. The existing NH is 4-lane divide carriageway.

3. As per the guidelines, issued by the Ministry vide OM No.RW/NH-33044/29/ 2015/ S&R(R) dated 22.11.2016, the application shall be put out in the public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

4. In view of the above, comments of the public on the above application is invited to the below mentioned address, which should reach by this office within 30 days from the date of publication beyond which no comments shall be entertained.

The Dy. General Manager (T)/ Project Director,
National Highways Authority of India,
Project Implementation Unit,
53, Basant Vihar,
Kanpur -208021

This issues with the direction of RO-West (UP).

Encl: As above.

Aman Rohilla
(Aman Rohilla)
Project Director

Copy to:

1. Regional Officer (West)-UP, NHAI, 3/248, Vishal Khand, Gomati Nagar, Lucknow.
2. Web Admin, NHAI-HQ- with a request for uploading on the NHAI website.
3. The Technical Director, NIC, Transport Bhawan, New Delhi- with request for uploading on the Ministry's website.
4. Authorized Signatory, M/s Jajmau Tannery Effluent Treatment Association, 20 MLD CETP Premises, Jajmau, Kanpur for information.



CHECK-LIST

Guidelines for Project Directors for processing the proposal of laying Pipe Line by private parties in the land along National Highways vested with NHAI.

Relevant circulars

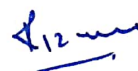
1. Ministry Circular No. RW/NH-33044/29/2015/S&R(R) Dated-22/11/2016.

Check list for getting approval for laying of Pipe Lines on NH land

S. No.	Item	Information/Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant	M/s Jajmau Tannery Effluent Treatment Association (JTETA) KLC Complex, Ground Floor, KNP-LKO Highways, Banthar, Unnao U.P.	
1.2	National Highway Number	NH-27	
1.3	State	UTTAR PRADESH	
1.4	Location	New Chungi Jajmau, Underpass at Nasir Hospital & Rasulabad Road to Underpass NHAI	
1.5	(Chain age in km)	from Km 77.300 to Km 77.360 (160mm Dia) & Crossing at Km 77.300 (200mm Dia) and Km 77.850 (710mm Dia)	
1.6	Length in Meters	60	
1.7	Width of available ROW		
	(a) Left side from center line towards increasing chain age /km direction	25	
	(b) Right side from center line towards increasing chain age/km direction	25	
1.8	Proposal to lay the Pipe Line		
	(a) Left side from center line towards increasing chain	Extreme Edge Of Road	

1

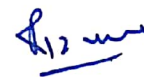
For JAJMAU TANNERY EFFLUENT TREATMENT ASSOCIATION



AUTHORISED SIGNATORY



	age/km direction		
	(b) Right side from center line towards increasing chain age/km direction	Extreme Edge Of Road	
1.9	Proposal to acquire land		
	(a) Left side form center line	NA	
	(b) Right side from center line	NA	
1.10	Whether proposal is in the same side where land is not to be acquired	NA	
	If not then where to lay the Pipe Line		
1.11	Details of already laid services, if any, along the proposed route	NA	
1.12	Number of lanes (2/4 / 6/8 lanes) existing	4 lane	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4/6/8 lanes)	4 lane	
1.14	Service road existing or not	YES	
	If yes then which side		
	(a) Left side from center line	YES	
	(b) Right side from center line	YES	
1.15	Proposed Service Road	NA	
	(a) Left side from center Line	NA	
	(b) Right side from center line	NA	
1.16	Whether proposal to lay Pipe Line is after the service road or between the service road and main carriageway	At the edge of ROW	
1.17	The permission for laying PIPE LINE shall be considered for approval/rejection	For Approval	
	(i) Where the ROW is more than 45 m then the duct Pipe Line shall be laid at the edge of right of way within the utility corridor of 2m width, duly keeping in	NA	



	view the future widening.		
	(ii) where land is yet to be acquired for 4 lane and the position of new carriageway has been decided then the Pipe Line shall be laid at the edge of right of way within the utility corridor of 2m width, on that side of existing carriageway where extra land is not proposed to be acquired for 4-laning.	NA	
	(iii) Where the widening plan for 4-laning is not yet decided and available ROW is around 30m or less, a judicious decision would need to be taken for permitting the laying of Pipe Line/duct. This could be within 1.5m to 2m of utility corridor at the edge of existing ROW, duly keeping in view the possible widening plans.	NA	
	(iv) Where ROW is restricted and adequate only to accommodate the carriageway, central verge, shoulders and drains (e.g. highways in cutting through hilly/rolling terrain), the Pipe Line shall be laid clear of the drain.	ROW Available	
	(v) Where land strip for utility corridor cannot be conveniently earmarked (available ROW restricted to the toe of the embankment) for laying of Pipe Line/ducts, the permission may be refused.	NA	
1.18	No. of applicants on the same stretch	1	
1.19	Whether the case of multiple licenses	NA	
1.20	If so furnish a joint implementation programmer to lay their respective ducts within stipulated time frame.	NA	
1.21	If crossings of the road involved If Yes it shall only be through trench-less technology	Yes through trenchless technology	
2.	Document/Drawings enclosed with the proposal	Yes	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.65m deep x 0.5m wide)	Yes	

	Should not be greater than 1.2m in width in multiple ducts.		
2.2	Cross section showing the size of pit and location of Pipe Line for HDD method	Yes	
2.3	Strip plan/Route Plan showing the PIPE LINE, Chain age, width of ROW, distance of proposed, Pipe Line from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Yes	
2.4	Methodology for laying of PIPE LINE		
2.4.1	Open trenching method. If yes, Methodology of refilling of trench	No	
2.4.2	Horizontal Directional Drilling (HDD) Method	Yes	
2.4.3	Laying PIPE LINE Through CD Works And Method Of Laying (Whether to be hung outside parapet)	Yes if required	
3.	Draft license Agreement signed by two witnesses	Yes	
4.	Performance Bank Guarantee		
4.2	Confirmation of BG has been obtained as per NHAI guidelines	BG shall be submitted as per NHAI Guidelines	
5	Affidavit/ Undertaking from the Applicant for		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NHAI or to the concerned agency.	Yes	
5.2	Renewal of Bank Guarantee	Yes	
5.3	Confirming all standard condition of NHAI's guideline	Yes	
5.4	Shifting of PIPE LINE as and when required by NHAI	Yes	
5.5	Shifting due to 6 lanning / widening of NH	Yes	
5.6	Indemnity against all damages and claims clause (xxiv)	Yes	
5.7	Traffic movement during laying of PIPE LINE to be managed by the applicant	Yes	
5.8	If any claim is raised by the Concessionaries then the	Yes	



	same has to be paid by the applicant		
5.9	Certificate for 6-lanning from the applicant in following format "We do undertake that I will relocate service road/approach road/utilities at my own cost notwithstanding the permission granted within such time as will be stipulated by NHAI" for future six-lane or any other development."	Yes	
6.	Power of Attorney in favor of authorized signatory	Yes	
7.	Copy of Conract	Yes	
8.	Certificate from the Project Director	NA	
8.1	Certificate for confirming of all standard condition issued vide Ministry Circular No. RW/NH-33044/17/2000-S&R dated 29.9.2000 and NHAI's guidelines issued vide No. NHAI/OEC/2k/Vol II dated 7.11.2000 and Ministry's Circular No. RW/NH-33044/27/2000-S&R dated 21.3.2006.	NA	
8.2	Certificate for 4-lanning from PD in the following format.	NA	
	(a) Where feasibility is available "I do certify that there will be no hindrance to proposed six-lane based on the feasibility report considering proposed structures at the said location. (b) In case feasibility report is not available "I do certify that sufficient ROW is available at site for accommodating proposed six-lane".	NA	
9.	The agreement fee of Rs. 1 shall be charged	Yes	
10.	If NH section proposed to be taken up by NHAI on BOT basis - a clause in para 17 to be inserted in the agreement. <i>"The permitted Highway on which Licensee has been granted the right to lay Pipe Line/duct has also Ben granted as a right of way to the concessionaire under the concession agreement for</i>	NA	

5

For JAJMAU TANNERY EFFLUENT TREATMENT ASSOCIATION



AUTHORISED SIGNATORY



	up=gradation of [..... section from Km ----- to km --- --- of NMH No.- ----- on Build, Operate and Transfer Basis] and therefore, the licensee shall honour the same."		
11.	Who will supervise the work of laying of PIPE LINE	M/s Jajmau Tannery Effluent Treatment Association (JTETA)	
12.	Who will ensure that the defects in road portion after laying of PIPE LINE are corrected and if not corrected then what action will be taken.	NHAI	
13.	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire	M/s Jajmau Tannery Effluent Treatment Association (JTETA)	
14.	A Certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed Performa (copy enclosed) issued vide Ministry Circular No. RW/NH/33044/29/2015/S&R (R) dated 22.11.2016.	Yes	
15.	If any previous approval is accorded for laying of Pipe Line then Photocopy of register of records of permissions accorded as maintained by PD (as per Ministry Circular No. RW/NH/33044/29/2015/S&R (R) dated 22.11.2016) as referred in para 13 above is enclosed or not.	Yes	

For JTETA
For JAJMAU TANNERY EFFLUENT TREATMENT ASSOCIATION

AUTHORISED SIGNATORY
Authorised Signatory

Testimony of GEORGE THOMAS, JR., 1401 17th Avenue
 AUSTIN, TEXAS 78704
 I AM A MEMBER OF THE TEXAS BOARD OF
 EDUCATION AND AM CURRENTLY SERVING AS CHAIRMAN.
 I AM CURRENTLY SERVING AS CHAIRMAN OF THE TEXAS
 BOARD OF EDUCATION AND AM CURRENTLY SERVING AS
 CHAIRMAN OF THE TEXAS BOARD OF EDUCATION.

Year	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

DETERMINED AS AN EVIDENCE OF THE FACT THAT THE INDIVIDUALS WHOSE NAMES ARE LISTED IN THE ATTACHED LIST OF NAMES ARE THE SAME AS THE INDIVIDUALS WHOSE NAMES ARE LISTED IN THE ATTACHED LIST OF NAMES.

1. Existing plans shall be adjusted to provide maximum return from each acre owned or joint owned installation of each type log.

For JAJMAU TANNERY EFFLUENT TREATMENT ASSOCIATION

22.11.20

AUTHORISED SIGNATORY

AFCU 001 MONTH END									
Customer Name	Account Number	Balance	Interest	Rate	Term	Start Date	End Date	Next Payment Due	Next Payment Amount
John Doe	123456789	\$1,000.00	\$10.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$100.00
Jane Smith	987654321	\$2,500.00	\$25.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$250.00
Bob Johnson	567890123	\$500.00	\$5.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$50.00
Alice Brown	345678901	\$750.00	\$7.50	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$75.00
Charlie Davis	234567890	\$1,200.00	\$12.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$120.00
Diana Evans	012345678	\$300.00	\$3.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$30.00
Frank Green	890123456	\$400.00	\$4.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$40.00
Grace Hill	678901234	\$600.00	\$6.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$60.00
Henry Ives	456789012	\$800.00	\$8.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$80.00
Ivy King	210987654	\$900.00	\$9.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$90.00
Jack Lee	098765432	\$1,100.00	\$11.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$110.00
Karen Miller	876543210	\$1,300.00	\$13.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$130.00
Leo Nelson	654321098	\$1,500.00	\$15.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$150.00
Mia Olsen	432109876	\$1,700.00	\$17.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$170.00
Noah Parker	210987654	\$1,900.00	\$19.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$190.00
Olivia Quinn	098765432	\$2,100.00	\$21.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$210.00
Peter Reed	876543210	\$2,300.00	\$23.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$230.00
Quinn Scott	654321098	\$2,500.00	\$25.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$250.00
Sam Taylor	432109876	\$2,700.00	\$27.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$270.00
Tina Vance	210987654	\$2,900.00	\$29.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$290.00
Uma Ward	098765432	\$3,100.00	\$31.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$310.00
Victor Xander	876543210	\$3,300.00	\$33.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$330.00
Wendy Yarnall	654321098	\$3,500.00	\$35.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$350.00
Xavier Zander	432109876	\$3,700.00	\$37.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$370.00
Yara Zander	210987654	\$3,900.00	\$39.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$390.00
Zoe Zander	098765432	\$4,100.00	\$41.00	10.00%	36	01/01/2023	12/31/2023	02/01/2024	\$410.00

IMPLEMENTATION OF ZEROED TANNERY COMMON EFFLUENT TREATMENT PLANT (CETP) TO TERTIARY TREATMENT ALONG WITH TREATED SEWAGE DILUTION FACILITY FOR JAMAL LEATHER CENTER.

MODEL AGENCY
UTR PRADISE

CLIENT
NATIONAL MISSION FOR CLEAN GANDGA (NMCG) - NEW DELHI

PROJECT ENGINEER
JAJMAU TANNERY EFFLUENT TREATMENT ASSOCIATION (JTETA) KANPUR, U.P.

TAMILNADU WATER INVESTMENT COMPANY LIMITED (TWIC)

QUINDY, CHENNAI 600032, INDIA

CONTRACTOR

WABAG

VA TECH WABAG LIMITED, INDIA
WABAG HONOLULU

017 250 PEST THORAPAKKAM-PALLAVARAM MAIN ROAD,
CHENNAI-600117 INDIA

TITLE

SKETCH DRAWING FOR C&C NETWORK

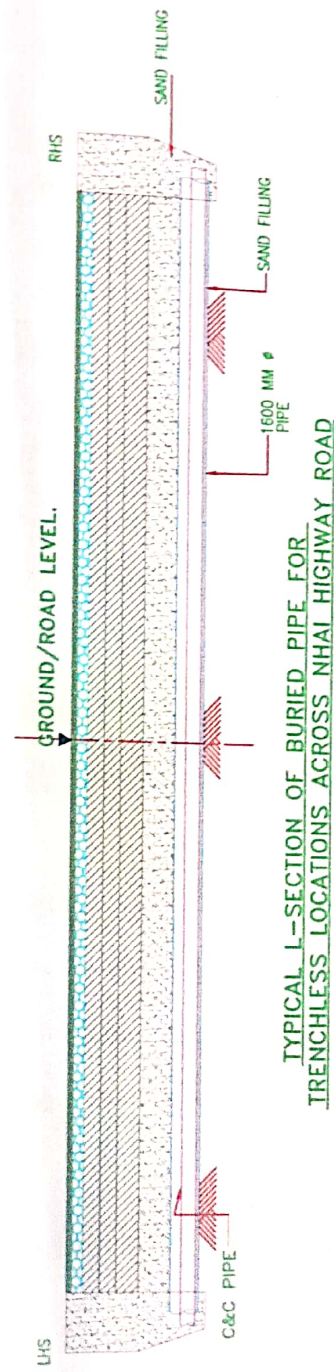
DOCUMENT REFERENCE	10P152-X0003-201	SN 01 OF 01
--------------------	------------------	-------------

SIZE	SCALE	DATE	REV	PREPARED	CHECKED	APPROVED
------	-------	------	-----	----------	---------	----------

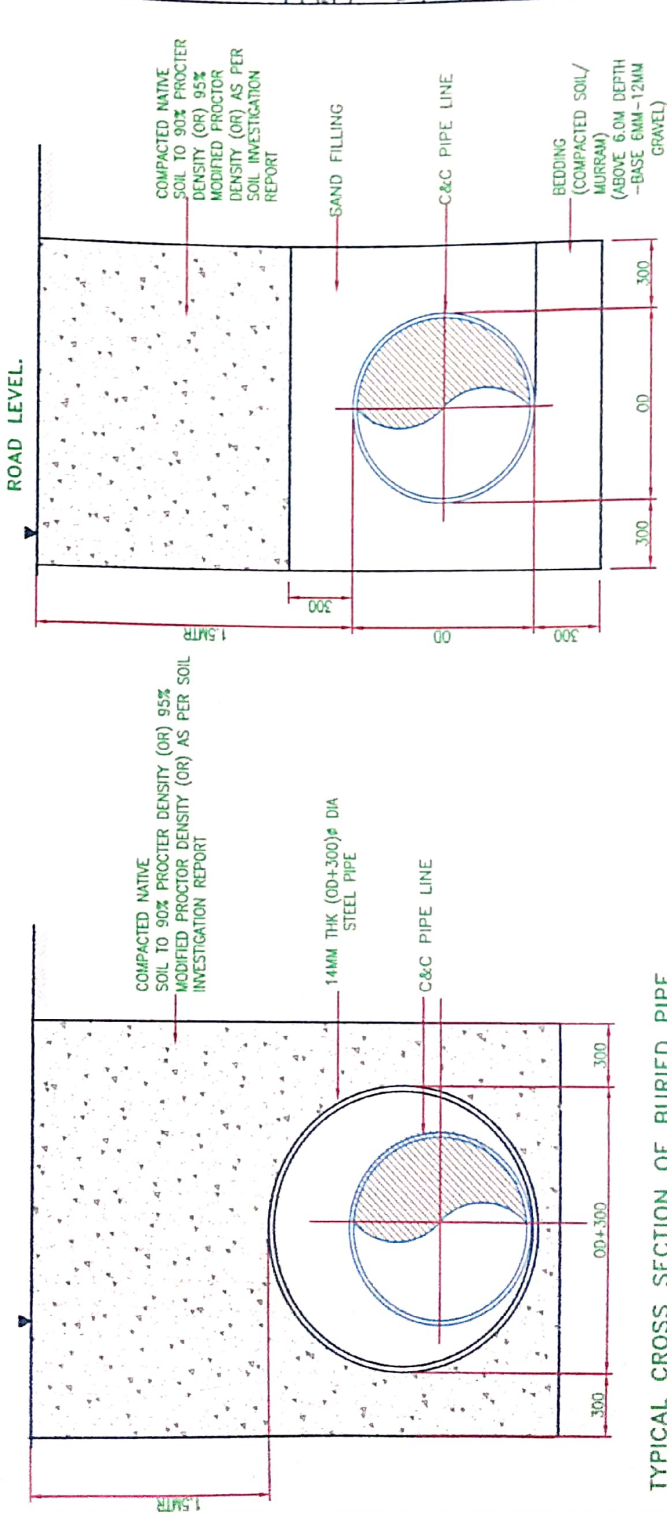
AJ	1:15	07.01.2024	0	SEN	AS	TCS
----	------	------------	---	-----	----	-----

Fig. 4. (a) 1100°C; (b) 1200°C; (c) 1300°C; (d) 1400°C; (e) 1500°C; (f) 1600°C; (g) 1700°C; (h) 1800°C; (i) 1900°C; (j) 2000°C; (k) 2100°C; (l) 2200°C; (m) 2300°C; (n) 2400°C; (o) 2500°C; (p) 2600°C; (q) 2700°C; (r) 2800°C; (s) 2900°C; (t) 3000°C; (u) 3100°C; (v) 3200°C; (w) 3300°C; (x) 3400°C; (y) 3500°C; (z) 3600°C; (aa) 3700°C; (ab) 3800°C; (ac) 3900°C; (ad) 4000°C; (ae) 4100°C; (af) 4200°C; (ag) 4300°C; (ah) 4400°C; (ai) 4500°C; (aj) 4600°C; (ak) 4700°C; (al) 4800°C; (am) 4900°C; (an) 5000°C; (ao) 5100°C; (ap) 5200°C; (aq) 5300°C; (ar) 5400°C; (as) 5500°C; (at) 5600°C; (au) 5700°C; (av) 5800°C; (aw) 5900°C; (ax) 6000°C; (ay) 6100°C; (az) 6200°C; (ba) 6300°C; (bb) 6400°C; (bc) 6500°C; (bd) 6600°C; (be) 6700°C; (bf) 6800°C; (bg) 6900°C; (bh) 7000°C; (bi) 7100°C; (bj) 7200°C; (bk) 7300°C; (bl) 7400°C; (bm) 7500°C; (bn) 7600°C; (bo) 7700°C; (bp) 7800°C; (bq) 7900°C; (br) 8000°C; (bs) 8100°C; (bt) 8200°C; (bu) 8300°C; (bv) 8400°C; (bw) 8500°C; (bx) 8600°C; (by) 8700°C; (bz) 8800°C; (ca) 8900°C; (cb) 9000°C; (cc) 9100°C; (cd) 9200°C; (ce) 9300°C; (cf) 9400°C; (cg) 9500°C; (ch) 9600°C; (ci) 9700°C; (cj) 9800°C; (ck) 9900°C; (cl) 10000°C; (cm) 10100°C; (cn) 10200°C; (co) 10300°C; (cp) 10400°C; (cq) 10500°C; (cr) 10600°C; (cs) 10700°C; (ct) 10800°C; (cu) 10900°C; (cv) 11000°C; (cw) 11100°C; (cx) 11200°C; (cy) 11300°C; (cz) 11400°C; (da) 11500°C; (db) 11600°C; (dc) 11700°C; (dd) 11800°C; (de) 11900°C; (df) 12000°C; (dg) 12100°C; (dh) 12200°C; (di) 12300°C; (dj) 12400°C; (dk) 12500°C; (dl) 12600°C; (dm) 12700°C; (dn) 12800°C; (do) 12900°C; (dp) 13000°C; (dq) 13100°C; (dr) 13200°C; (ds) 13300°C; (dt) 13400°C; (du) 13500°C; (dv) 13600°C; (dw) 13700°C; (dx) 13800°C; (dy) 13900°C; (dz) 14000°C; (ea) 14100°C; (eb) 14200°C; (ec) 14300°C; (ed) 14400°C; (ee) 14500°C; (ef) 14600°C; (eg) 14700°C; (eh) 14800°C; (ei) 14900°C; (ej) 15000°C; (ek) 15100°C; (el) 15200°C; (em) 15300°C; (en) 15400°C; (eo) 15500°C; (ep) 15600°C; (eq) 15700°C; (er) 15800°C; (es) 15900°C; (et) 16000°C; (eu) 16100°C; (ev) 16200°C; (ew) 16300°C; (ex) 16400°C; (ey) 16500°C; (ez) 16600°C; (fa) 16700°C; (fb) 16800°C; (fc) 16900°C; (fd) 17000°C; (fe) 17100°C; (ff) 17200°C; (fg) 17300°C; (fh) 17400°C; (fi) 17500°C; (fj) 17600°C; (fk) 17700°C; (fl) 17800°C; (fm) 17900°C; (fn) 18000°C; (fo) 18100°C; (fp) 18200°C; (fq) 18300°C; (fr) 18400°C; (fs) 18500°C; (ft) 18600°C; (fu) 18700°C; (fv) 18800°C; (fw) 18900°C; (fx) 19000°C; (fy) 19100°C; (fz) 19200°C; (ga) 19300°C; (gb) 19400°C; (gc) 19500°C; (gd) 19600°C; (ge) 19700°C; (gf) 19800°C; (gg) 19900°C; (gh) 20000°C; (gi) 20100°C; (gj) 20200°C; (gk) 20300°C; (gl) 20400°C; (gm) 20500°C; (gn) 20600°C; (go) 20700°C; (gp) 20800°C; (gq) 20900°C; (gr) 21000°C; (gs) 21100°C; (gt) 21200°C; (gu) 21300°C; (gv) 21400°C; (gw) 21500°C; (gx) 21600°C; (gy) 21700°C; (gz) 21800°C; (ha) 21900°C; (hb) 22000°C; (hc) 22100°C; (hd) 22200°C; (he) 22300°C; (hf) 22400°C; (hg) 22500°C; (hh) 22600°C; (hi) 22700°C; (hj) 22800°C; (hk) 22900°C; (hl) 23000°C; (hm) 23100°C; (hn) 23200°C; (ho) 23300°C; (hp) 23400°C; (hq) 23500°C; (hr) 23600°C; (hs) 23700°C; (ht) 23800°C; (hu) 23900°C; (hv) 24000°C; (hw) 24100°C; (hx) 24200°C; (hy) 24300°C; (hz) 24400°C; (ia) 24500°C; (ib) 24600°C; (ic) 24700°C; (id) 24800°C; (ie) 24900°C; (if) 25000°C; (ig) 25100°C; (ih) 25200°C; (ii) 25300°C; (ij) 25400°C; (ik) 25500°C; (il) 25600°C; (im) 25700°C; (in) 25800°C; (io) 25900°C; (ip) 26000°C; (iq) 26100°C; (ir) 26200°C; (is) 26300°C; (it) 26400°C; (iu) 26500°C; (iv) 26600°C; (iw) 26700°C; (ix) 26800°C; (iy) 26900°C; (iz) 27000°C; (ja) 27100°C; (jb) 27200°C; (jc) 27300°C; (jd) 27400°C; (je) 27500°C; (jf) 27600°C; (jg) 27700°C; (jh) 27800°C; (ji) 27900°C; (jj) 28000°C; (jk) 28100°C; (jl) 28200°C; (jm) 28300°C; (jn) 28400°C; (jo) 28500°C; (jp) 28600°C; (jq) 28700°C; (jr) 28800°C; (js) 28900°C; (jt) 29000°C; (ju) 29100°C; (jv) 29200°C; (jw) 29300°C; (jx) 29400°C; (jy) 29500°C; (jz) 29600°C; (ka) 29700°C; (kb) 29800°C; (kc) 29900°C; (kd) 30000°C; (ke) 30100°C; (kf) 30200°C; (kg) 30300°C; (kh) 30400°C; (ki) 30500°C; (kj) 30600°C; (kk) 30700°C; (kl) 30800°C; (km) 30900°C; (kn) 31000°C; (ko) 31100°C; (kp) 31200°C; (kq) 31300°C; (kr) 31400°C; (ks) 31500°C; (kt) 31600°C; (ku) 31700°C; (kv) 31800°C; (kw) 31900°C; (kx) 32000°C; (ky) 32100°C; (kz) 32200°C; (la) 32300°C; (lb) 32400°C; (lc) 32500°C; (ld) 32600°C; (le) 32700°C; (lf) 32800°C; (lg) 32900°C; (lh) 33000°C; (li) 33100°C; (lj) 33200°C; (lk) 33300°C; (ll) 33400°C; (lm) 33500°C; (ln) 33600°C; (lo) 33700°C; (lp) 33800°C; (lq) 33900°C; (lr) 34000°C; (ls) 34100°C; (lt) 34200°C; (lu) 34300°C; (lv) 34400°C; (lw) 34500°C; (lx) 34600°C; (ly) 34700°C; (lz) 34800°C; (ma) 34900°C; (mb) 35000°C; (mc) 35100°C; (md) 35200°C; (me) 35300°C; (mf) 35400°C; (mg) 35500°C; (mh) 35600°C; (mi) 35700°C; (mj) 35800°C; (mk) 35900°C; (ml) 36000°C; (mm) 36100°C; (mn) 36200°C; (mo) 36300°C; (mp) 36400°C; (mq) 36500°C; (mr) 36600°C; (ms) 36700°C; (mt) 36800°C; (mu) 36900°C; (mv) 37000°C; (mw) 37100°C; (mx) 37200°C; (my) 37300°C; (mz) 37400°C; (na) 37500°C; (nb) 37600°C; (nc) 37700°C; (nd) 37800°C; (ne) 37900°C; (nf) 38000°C; (ng) 38100°C; (nh) 38200°C; (ni) 38300°C; (nj) 38400°C; (nk) 38500°C; (nl) 38600°C; (nm) 38700°C; (nn) 38800°C; (no)

© 2006 Blackwell Publishing Ltd, *Journal of Internal Medicine* 260: 103–112



TYPICAL L-SECTION OF BURIED PIPE FOR
TRENCHLESS LOCATIONS ACROSS NHAI HIGHWAY ROAD
(N/S)

[illegible]