



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport & Highways, Government of India)

क्षेत्रीय कार्यालय - हैदराबाद

प्रथम तल, नया भवन, भारतीय प्रशासनिक स्टाफ कॉलेज, रोड नंबर 3, बंजारा हिल्स, हैदराबाद - 500034, तेलंगाना

REGIONAL OFFICE - HYDERABAD

First Floor, New Building, Administrative Staff College of India (ASCI), College Park Campus, Road No. 3, Banjara Hills, Hyderabad - 500034, Telangana

टेली / Tele: 040-29562147 / 48 ई-मेल / Email: rohyderabad@nhai.org / nhairohyd@gmail.com

Notice Inviting Public Comments

NHAI/RO-HYD/25011/1/64/2023/Utility/1717

Dt. 26.10.2023

विषय: भा.रा.रा.प्रा- क्षेत्रीय कार्यालय, हैदराबाद - प.का.इ हैदराबाद -Proposal for laying of 10.75 inch/ 4.5 inch OD Steel Pipeline and OFC cable for Public Utility -City Gas Distribution Pipeline along & across Hyderabad to Bangalore section of NH-44- (i) 10.75 inch Steel Pipeline Along the road on LHS from Km.202+100 to Km.202+300, from Km.202+400 to Km.202+800, from Km.203+000 to Km.203+900, from Km.204+200 to Km.204+300, from Km.204+500 to Km.204+600, from Km.205+700 to Km.205+750, from Km.206+200 to Km.206+800, from Km.207+100 to Km.207+150, from Km.207+600 to Km.207+800, from Km.208+300 to Km.209+200, from Km.209+400 to Km.210+300, by HDD methodology, (ii) 10.75 inch Steel Pipeline along the road on LHS from Km.202+300 to Km.202+400, from Km.202+800 to Km.203+000, from Km.203+900 to Km.204+200, Km.204+300 to Km.204+500, from Km.204+700 to Km.205+700, from Km.205+750 to Km.206+200, from Km.206+800 to Km.207+100, Km.207+100 to Km.207+120, from Km.207+150 to Km.207+600, from Km.207+800 to Km.208+300, from Km.209+200 to Km.209+400 by Open trench method and (iii) 4.5 inch Steel Pipeline across the National Highway at Km.207+100, Km.208+500, & Km.209+700 by HDD methodology for a total length of 8.2 Kms on Hyderabad to Bangalore in the State of Andhra Pradesh- के संबंध में।

Ref: 1. PD Lr.no. Lr.no.NHAI/PIU-HYD/NH-44/AP-5/IOCL/Km.202-211/2023/864, dated 29.08.2023 (received on 01.09.2023)
2. PD Lr.no. Lr.no.NHAI/PIU-HYD/NH-44/AP-5/IOCL/Km.202-211/2023/950, dated 11.10.2023 (received on 16.10.2023)

The Project Director, NHAI vide letter cited above has recommended the Proposal of M/s IOCL, for laying of City Gas Distribution Pipeline between Km. 202/000 to Km. 211/000 along and across Hyderabad to Bangalore section of NH- 44 in the State of Andhra Pradesh.

2. As per para 4 of the Ministry's guidelines no. RW/NH-33044/29/2015/S&R(R) dated 22.11.2016, public comments is hereby invited on the above proposal seeking claims and objections (on grounds of public inconvenience, safety and general public interest) within 30 days on public portal i.e. website of Ministry of Road Transport and Highways (www.morth.nic.in) in Form-A (copy enclosed) for "Accommodation of Public and Industrial Utility Services along and across National Highways".

Comment Inviting Authority

The Regional Officer,
National Highways Authority of India,
Regional Office: Hyderabad,
First Floor, New Building,
Administrative Staff College of India(ASCI),
College Park Campus, Road No.3,
Banjara Hills, Hyderabad - 500 034,
Telangana State,
Phone: 040-29562147, 040-29562148,
Email: rohyderabad@nhai.org, nhairohyd@gmail.com

Encls: Above Proposal

Yours faithfully,

वि. नागमणि
(वि.नागमणि)

उप महाप्रबंधक (तक.)

कृते क्षेत्रीय अधिकारी - एवं -
राजमार्ग प्रशासक, हैदराबाद

To:1. Senior Technical Director, NIC, Transport Bhawan, New Delhi- 110001 for uploading on Ministry's website.

2. Shri S.Manivasagam, Dy. GM (IT), NHAI HQs, New Delhi for uploading on NHAI website.

Copy to:- The PD, PIU Hyderabad: for information

FORM-A

Form for seeking claims and objections (on grounds of public inconvenience, safety and general public interest) on the application for Accommodation of Public and Industrial Utility Services along and across National Highways

विषय:भा.रा.रा.प्रा- क्षेत्रीय कार्यालय, हैदराबाद – प.का.इ हैदराबाद -Proposal for laying of 10.75 inch/ 4.5 inch OD Steel Pipeline and OFC cable for Public Utility -City Gas Distribution Pipeline along & across Hyderabad to Bangalore section of NH-44- (i) 10.75 inch Steel Pipeline Along the road on LHS from Km.202+100 to Km.202+300, from Km.202+400 to Km.202+800, from Km.203+000 to Km.203+900, from Km.204+200 to Km.204+300, from Km.204+500 to Km.204+600, from Km.205+700 to Km.205+750, from Km.206+200 to Km.206+800, from Km.207+100 to Km.207+150, from Km.207+600 to Km.207+800, from Km.208+300 to Km.209+200, from Km.209+400 to Km.210+300, by HDD methodology, (ii) 10.75 inch Steel Pipeline along the road on LHS from Km.202+300 to Km.202+400, from Km.202+800 to Km.203+000, from Km.203+900 to Km.204+200, Km.204+300 to Km.204+500, from Km.204+700 to Km.205+700, from Km.205+750 to Km.206+200, from Km.206+800 to Km.207+100, Km.207+100 to Km.207+120, from Km.207+150 to Km.207+600, from Km.207+800 to Km.208+300, from Km.209+200 to Km.209+400 by Open trench method and (iii) 4.5 inch Steel Pipeline across the National Highway at Km.207+100, Km.208+500, & Km.209+700 by HDD methodology for a total length of 8.2 Kms on Hyderabad to Bangalore in the State of Andhra Pradesh- Reg..

The claims and objections (on grounds of public inconvenience, safety and general public interest) by the general public needs to be given within 30 days of uploading the online application for comments

Sl. No	Item	Details
1	Name of the person who is desiring to give claims and objections (on grounds of public inconvenience, safety and general public interest)	
2	Address of the person	
3	Details of the application for Accommodation of Public and Industrial Utility Services along and across National Highways against which claims and objections are being given (name of applicant and other details like site address etc.)	
	a) Application No.	
	b) Name of applicant (who applied to Accommodation of Public and Industrial Utility Services along and across National Highways)	
	c) Details of Application	
4	The claims and objections (on grounds of public inconvenience, safety and general public interest)	



सत्यमेव जयते

भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार) NATIONAL HIGHWAYS AUTHORITY OF INDIA

(Ministry of Road Transport & Highways, Government of India)

परियोजना कार्यान्वयन इकाई - हैदराबाद

आवास सं : 25A & 28A, भारत का प्रशासनिक स्टाफ कॉलेज, कॉलेज पार्क कैम्पस, सड़क सं : 3, बंजारा हिल्स, हैदराबाद - 500 034, तेलंगाना

PROJECT IMPLEMENTATION UNIT - HYDERABAD

Qtr No.25A & 28A, Administrative Staff College of India (ASCI), College Park Campus, Road No. 3, Banjara Hills, Hyderabad - 500 034, Telangana.

Land Mark : Near Tv9 Bus Stop

टेली Tel : 040 - 29550558 ई-मेल Email : hyd@nhai.org , nhaihyd@gmail.com

NHAI/PIU-HYD/NH-44/AP-5/IOCL/Km. 202-211/2023

11.10.2023

To

The Regional Officer

National Highways Authority of India

Regional Office, First Floor, New Building,

Administrative Staff College of India (ASCI),

College Park Campus, Road No.3

Banjara Hills, Hyderabad-500034, Telangana.

Sub: NHAI, PIU-Hyderabad - Design, Construction, Development, Finance, Operation and Maintenance of Km.135.469 (end of Kothakota Bypass) to Km.211.000 (Kurnool) on NH-44 (old NH-7) in the State of Andhra Pradesh on BOT (Annuity) basis - Contract Package No. NS-2/BOT/AP-5 - Grant of NOC for laying of 10" OD Steel Pipe and OFC for public utility - "City Gas Distribution along the NH44 in Kurnool District by Open cut method and HDD method - Necessary compliance requested - Reg.

- Ref:**
- MoRTH Circular no.RW/NH-33044/29/2015/S&R (R) dated 22.11.2016
 - M/s. IOCL Ir. no. SERPL/KNL/STAT/602 dated: 20.01.2023 (file received on 28.03.2023 in this office)
 - M/s. IOCL Ir. no. SERPL/KNL/STAT/602 dated: 09.03.2023
 - PIU-Hyd Ir. No. NHAI/PIU-HYD/NH-44/AP-5/IOCL/Km. 202-211/2023/378 dated: 10.04.2023
 - I.E Ir. No. AA/TL/AP-05/NH-44/NHAI/2349/23-24/1870 dated: 29.04.2023
 - PIU-Hyd Ir. No. NHAI/PIU-HYD/NH-44/AP-5/IOCL/Km. 202-211/2023/624 dated: 12.06.2023
 - M/s. IOCL Ir. no. SERPL/KNL/STAT/602 dated: 04.08.2023 (mail dated: 26.08.2023)
 - PIU-Hyd Ir. No. NHAI/PIU-HYD/NH-44/AP-5/IOCL/Km. 202-211/2023/864 dated: 29.08.2023
 - RO-Hyderabad mail dated: 06.09.2023

Sir,

In continuation of this office letter dated: 29.08.2023 wherein this office had requested to put out in the IOCL proposal in public domain for 30 days for seeking claims and objections (on grounds of public inconvenience, safety and general public interest), as per the request from M/s IOCL the application No. SERPL/KNL/STAT/602 dated 20.01.2023.

2. In response, Regional Office vide mail dated: 06.09.2023 wherein necessary documents were sought to host the proposal in public domain for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

3. Further, M/s IOCL vide letter dated: 13.09.2023 has submitted BG as per the demand note and same has been sent for Bank Confirmation vide this office letter dated: 14.09.2023, however same is awaited.

4. In view of the above, necessary documents such as checklist and drawings are enclosed for hosting the proposal in public domain for seeking claims and objections (on grounds of public inconvenience, safety and general public interest).

Yours faithfully,

(Signature)
11/10/23

(P. Nageswara Rao)

GM (T) & Project Director

CHECK – LIST

Guidelines for Project Directors for processing the proposal of laying 10.75" carbon steel Pipes & 125 MM MDPE pipes by IOCL Pipelines division in the land along National Highway 44 vested with NH.

- **Relevant circulars**

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

Check list for getting approval for laying of 10.75" Carbon steel Pipes on NH land

Sl. No.	Item	Information/ Status	Remarks
1	General Information		
1.1	Name and Address of the Applicant	Mr. M. Chaitanya Kumar Manager (CGD) Indian Oil Corporation Limited Southern Eastern Region Pipelines City Gas Distribution project 3 rd Floor, Vishnu Sai Enclave Kurnool-518003	
1.2	National Highway Number	NH-44	
1.3	State	Andhra Pradesh	
1.4	Location	Panchalingala to Kallur along NH 44	
1.5	(Chainage in km)	KM 202 (Survey No.281/3) to KM 211 (Survey No.493/A)	LHS
1.6	Length in Meters	10000	
1.7	Width of available ROW	60 M	
	(a) Left side from center line towards increasing Chainage/ km direction	30 M	
	(b) Right side from center line towards increasing chainage/ km direction	30 M	
1.8	Proposal to lay underground Gas Pipeline along with OFC		
	(a) Left side from center line tow	KM 202 to 211	
	(b) Right side from center line towards increasing chainage/ km direction	NA	
1.9	Proposal to acquire land		
	(a) Left side from 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	Yes	
	If not then where to lay the Pipeline	NA	

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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	2/4 lanes	
1.13	Proposed Number of lanes (2 lane with paved shoulders/4 / 6/8 lanes)	NA	
1.14	Service road existing or not		
	If yes then which side	NA	
	(a) Left side from center line	NA	
	(b) Right side from center line	NA	
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 is after the service road or between the service road and main carriageway	At the edge of NH RoW & at a clear distance as per T4S guidelines of PNGRB from other hydrocarbon Pipelines & utilities	LHS
1.17	Whether carrying of sewage/gas pipeline has be proposed on highway bridge If "Yes", then mention the methodology proposed for the same.	NA	
1.18	Whether carrying of sewage/gas pipeline has been proposed on the parapet/any part of the bridge. If "Yes", then the methodology proposed for the same.	NA	
1.19	If crossing of the road involved If "Yes", then it shall be encased in pipes or through the structure or conduit specially built for that purpose at the expenses of agency owning the line.	KM 206/960 (Survey No. 384), KM 208/260 (Survey No.310), KM 209/420 (Survey No. 443)	
	a)whether existing structure allowed to carry sewage/gas pipeline	NA	
	b) It is in the line normal to NH	Yes	
	c) What is the distance of crossing the sewage/gas pipeline from the existing structure Crossing should not be too near to existing structure on National Highway, the minimum distance should be 15 meters	NA	
	d) The casing pipe(or conduit pipe in the case of electric cable) carrying the utility line shall steel, cast iron or reinforce cement concrete and having adequate strength and be large enough to permit ready withdrawal of carrier pipe/cable. Mention type of casing	NA	
	e) End of the casing/conduit shall be sealed from the outside, so that it does not act as drainage path	NA	
	f) The casing/conduit should, as	NA	

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	minimum extended minimum drain to drain curs and toes of slope in the fills		
	g) The top of the casing/conduit should be at least 1.2 meters below the surface of the road subject to being at least 0.3meter below the drain invert. Mention the proposed details	NA	
	h) Mention the methodology for crossing of road for the proposed sewage/gas pipeline. Crossing shall be by boring machine (HDD) [TRENCHLESS TECHNOLOGY], specially, where the existing road pavement is of cement concrete or dense bitumen concrete type.	HDD	
	i) the casing/conduit pipe shall be installed with an even bearing throughout its length and in such a manner as to prevent the formation of waterway along it	NA	
2	Document / Drawings enclosed with the proposal	Enclosed	
2.1	Cross section showing the size of trench for open trenching method (Is it normal size of 1.2m deep X 0.3m wide) a) Should not be greater than 60cm wider than the outer diameter of pipe b) Located as close to the extreme edge of the ROW as possible but not less than 15 meter from the Centre lines of the nearest carriage way c) Shall not be permitted to run along the national highway when the road formation is situated in double cutting, nor shall be laid over existing culverts and bridge d) It should be laid so that their top is at least 0.6 meter below the ground level so as the obstruct of the road land.	Yes	
2.2	Cross section showing the size of pit and location of cable for HDD method	Enclosed	
2.3	Strip plan/ Route Plan showing the natural gas pipeline, Chainage, width of ROW, distance of proposed, cable from the edge of ROW, important mile stone, intersections, cross drainage works etc.	Enclosed	
2.4	Methodology for laying of pipe		
2.4.1	Open trenching method. (May be allowed in utility corridor only where	Excavate the area 2.0 m (D) x 1.0m(W), place the pipe inside and	

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	pavement is neither cement concrete nor dense bituminous concrete type.) If Yes, what is the methodology of refilling of trench.	refill the trench with the soft / excavated soil in layers not exceeding 150mm and compaction will be done	
	a) The trench width should be at least 30cm, but not more than 60cm wider than outer diameter of the pipe.	Yes	
	b) For the filling of the trench, Bedding shall be to a depth of not less than 60cm. It shall consist of granular material, free of lumps, clods and cobbles and graded to yield a firm surface without sudden change in the bearing value. Unsuitable soil and rock edged should be excavated and replace by selected material	Yes	
	c) The backfill shall be completed in two stages 1.sidefill to the level of the top of the pipe and overall to the bottom of the road crust.	Yes	
	d) The side fill shall consist of granular material laid in 15cm layer each consolidated by mechanical tampering and controlled addition to moisture to 95% of the proctor's density. Overfill shall be compacted to the same density as material has been removed. Consolidation by saturation or pounding will not be permitted.	Yes	
	e) The road crust shall be built to the same strength as existing crunch of either side of the trench. Care shall be take to avoid formation of dip at trench.	Yes	
	f) The excavation shall be protected by flagman, signs and barricades, and red light during night hours.	Yes	
	g) If required, diversion shall be constructed at the expenses of agency owing utility line.	Yes	
2.4.2	Horizontal Directional Drilling (HDD) Method	As per Site condition	
2.4.3	Laying Natural gas pipeline through CD works and method of laying. In case where the carrying of natural gas	NA	



	pipeline on bridge becomes inescapable.		
3	Draft License Agreement signed by two witnesses	Enclosed	
4	Performance Bank guarantee in favor of NH has to be obtained at Rs.100/- per running meter (parallel to NH) and Rs. 1, 00,000/-per crossing of NH, for period of one year initially (extendable if require till satisfactory completion of work) as a security for ensuring/making good excavated trench for laying gas pipeline/duct filling and compaction, clearing debris/loose earth produced due to execution of trenching at least 50m away from the edge of ROW. No payment shall be payable by NH to the licensee for clearing debris/loose earth. Performance BG as per above is to be obtained.	Shall be submitted on receipt of demand note from NH	
4.1	Confirmation of BG has been obtained as per NH guidelines	Applicable at Later stage	
5	Affidavit / Undertaking from the Applicant for		
5.1	Not to Damage to other utility, if damaged then to pay the losses either to NH or to the concerned agency	Enclosed	
5.2	Renewal of Bank Guarantee	NA	
5.3	Confirming all standard condition of NH's guideline and ministry circular	Yes	
5.4	Shifting of Natural gas pipeline as and when required by NH	Undertaking enclosed	
5.5	Shifting of Natural gas pipeline due to 6 laning / widening of NH	Undertaking enclosed	
5.6	Indemnity against all damages and claims clause (xxiv)	Undertaking enclosed	
5.7	Traffic movement during laying of Natural gas pipeline to be managed by the applicant.	Undertaking enclosed	
5.8	If any claim is raised by the Concessionaire then the same has to be paid by the applicant	Undertaking enclosed	
5.9	Prior approval of NH shall be obtain before taking any work of installation, shifting or repair or alternative to Natural gas pipeline/any other utility located in national Highway ROW	Undertaking enclosed	
5.10	Expenditure, If any, incurred by NH for repairing any damage cause to NH by the laying, maintenance or shifting of Natural gas pipeline borne by applicant agency owning the line.	Yes	
5.11	If NH consider it necessary in future to move the utility line for any work of	Yes	



	improvement or repairs to the road, it will be carried out as desired by the NH at the cost of agency owning utility line.		
5.12	<p>Certificate from applicant in following format</p> <ol style="list-style-type: none"> 1. Laying of Natural gas pipeline will not having any deleterious effect on any of the bridge component and roadway safety of traffic. 2. "We do undertake that I/we will relocate service road/approach road/utility at my own cost notwithstanding the permission granted within such time as will be stipulated by "NH" for future six laning or any other development work 	Enclosed	
6	Who will sign the agreement on behalf of Natural gas pipeline agency	M(CGD), Kurnool	
	Power of Attorney to sign the agreement is available or not.	Yes	
7.1	Certificate of conforming all standard condition issued vide Ministry of Road Transport and Highway, Circular no. NH-III/P/66/76 DATED 18/19.11.1976, RW/NH-III/P/66/76 DATED 11.05.1982, RW/NH-11037/1/86 DOI (ii) DATED 28.07.1993, RW/NH/34066/2/95/S&R DATED 25.10.1999 and Circular no. RW/NH-34066/7/2003/S&R(B) DATED 17.09.2003	Enclosed	
7.2	<p>Certificate from PD in following format</p> <ol style="list-style-type: none"> a) "It is certified that any other location of the Natural gas pipeline would be extremely difficult and unreasonably costly and installation of Natural gas pipeline within ROW will not adversely affect the design, stability & traffic safety of the highway nor the likely future improvement such as widening the carriage way, easing the curve etc. b) For 6-laning <ol style="list-style-type: none"> i. Where feasibility is available "I do certify that there will be no hindrance to proposed 6-laning based of feasibility report considering proposed structures at the said location". ii. In case of feasibility not available 	Yes	



	" I do certify that sufficient ROW is available at site for accommodating proposed 6-laning"		
8	If NH section proposed to be taken up by NH 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 ROW to the concessionaire under the concession agreement for up-gradation of (.....Section from Km...to Km.....of NMH No....On Build, Operate and Transfer Basis) and therefore, the licensee shall honor the same."</i>	Yes	
9	Who will supervise work of laying Natural gas pipeline? a) On behalf of applicant b) On behalf of NH	M(CGD), Kurnool DE, NH	
10	Who will ensure that the defects in road portion after laying of Natural gas pipeline are corrected and if not corrected then what action will be taken. a) On behalf of applicant b) On behalf of NH	Yes M(CGD), Kurnool DE, NH	
11	Who will pay the claims for damages done/disruption in working of Concessionaire if asked by the Concessionaire? On behalf of applicant	IOCL, Pipeline Division	
12	A certificate from PD that he will enter the proposed permission in the register of records of the permissions in the prescribed proforma (copy enclosed)	Enclosed	
13	If any previous approval is accorded for laying of Natural gas pipeline then Photocopy of register of records of permissions accorded as maintained by PD (copy enclosed).	NA	

M (CGD), Kurnool
IOCL, Southern Eastern Region Pipelines

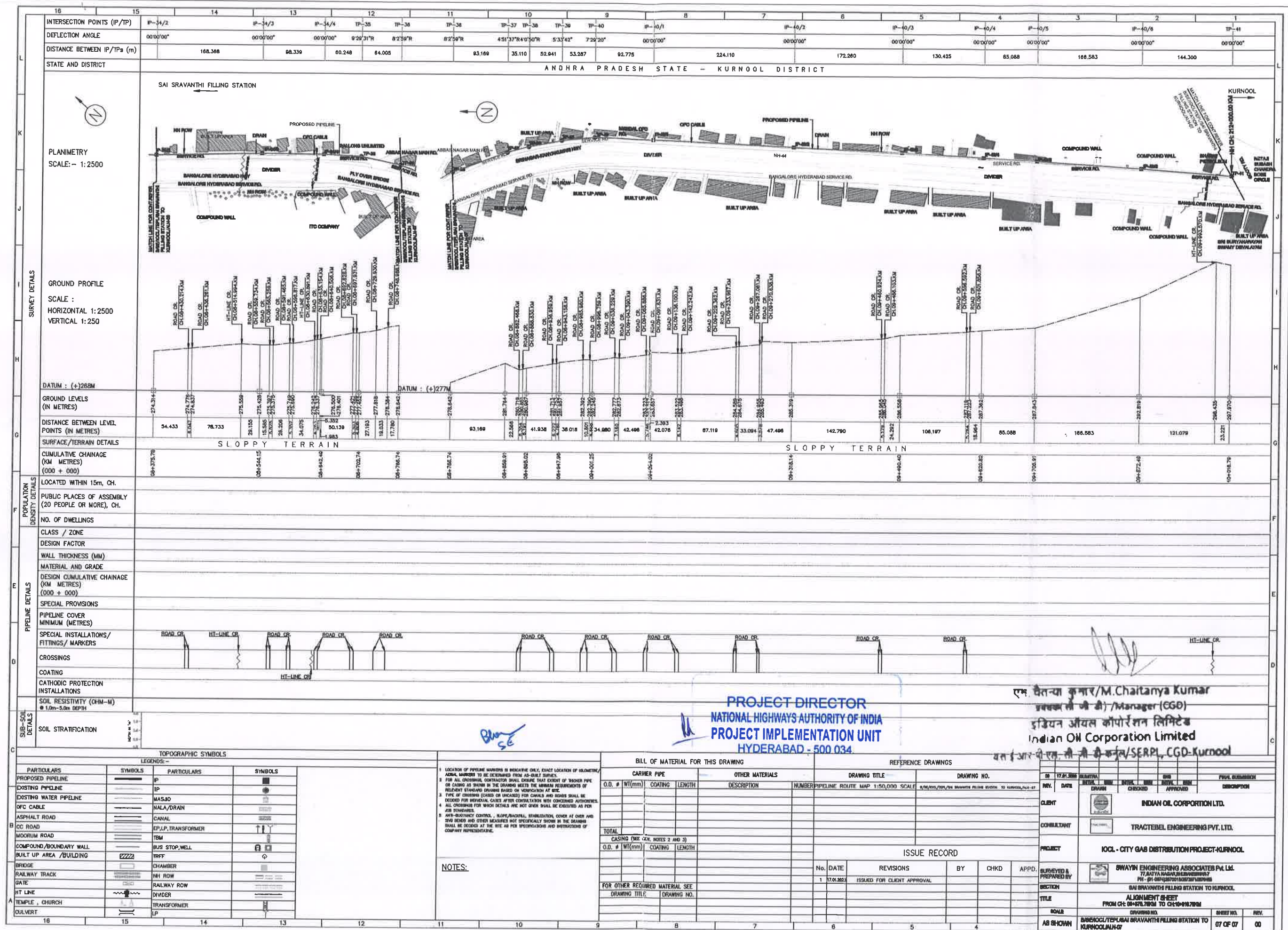
एम. चैतन्या कुमार/M.Chaitanya Kumar
प्रबंधक (सी जी डी) /Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
एस ई आर पी एल, सी जी डी-कूर्नूल/SERPL, CGD-Kurnool



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PROJECT DIRECTOR
NATIONAL HIGHWAYS AUTHORITY OF INDIA
PROJECT IMPLEMENTATION UNIT
HYDERABAD - 500 034

एम. चैतन्या कुमार/M. Chaitanya Kumar
इन्फ्रस्ट्रक्चर डी.जी./Manager (CGO)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
यस ई-आर-वी-एल-सी-सी-डी-कनूल/SERPL, CGO-Kurnool

INDIAN OIL CORPORATION LTD.

TRACTEBEL ENGINEERING PVT. LTD.

IOCL - CITY GAS DISTRIBUTION PROJECT-KURNOOL

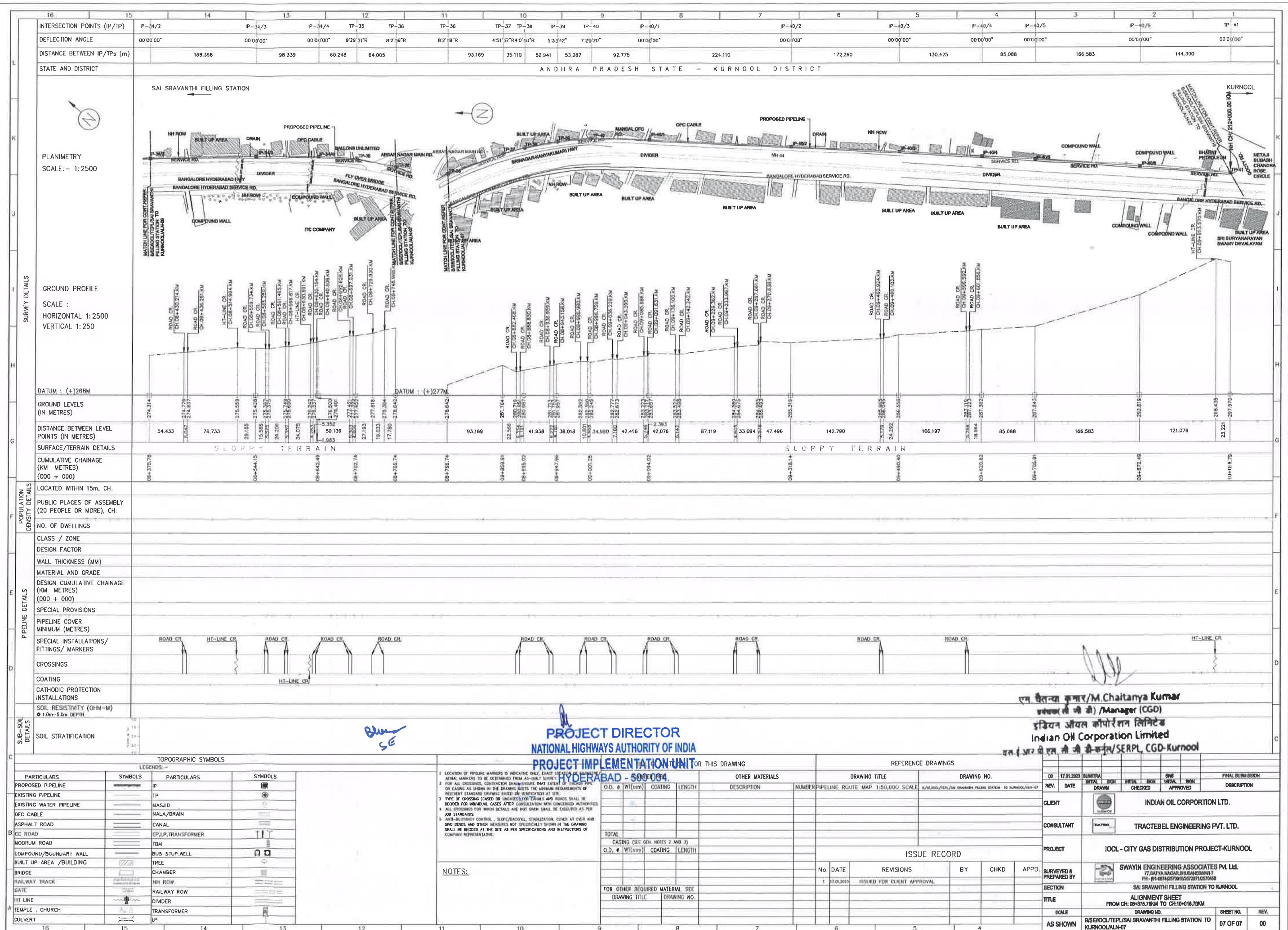
SWAYIN ENGINEERING ASSOCIATES P. L.

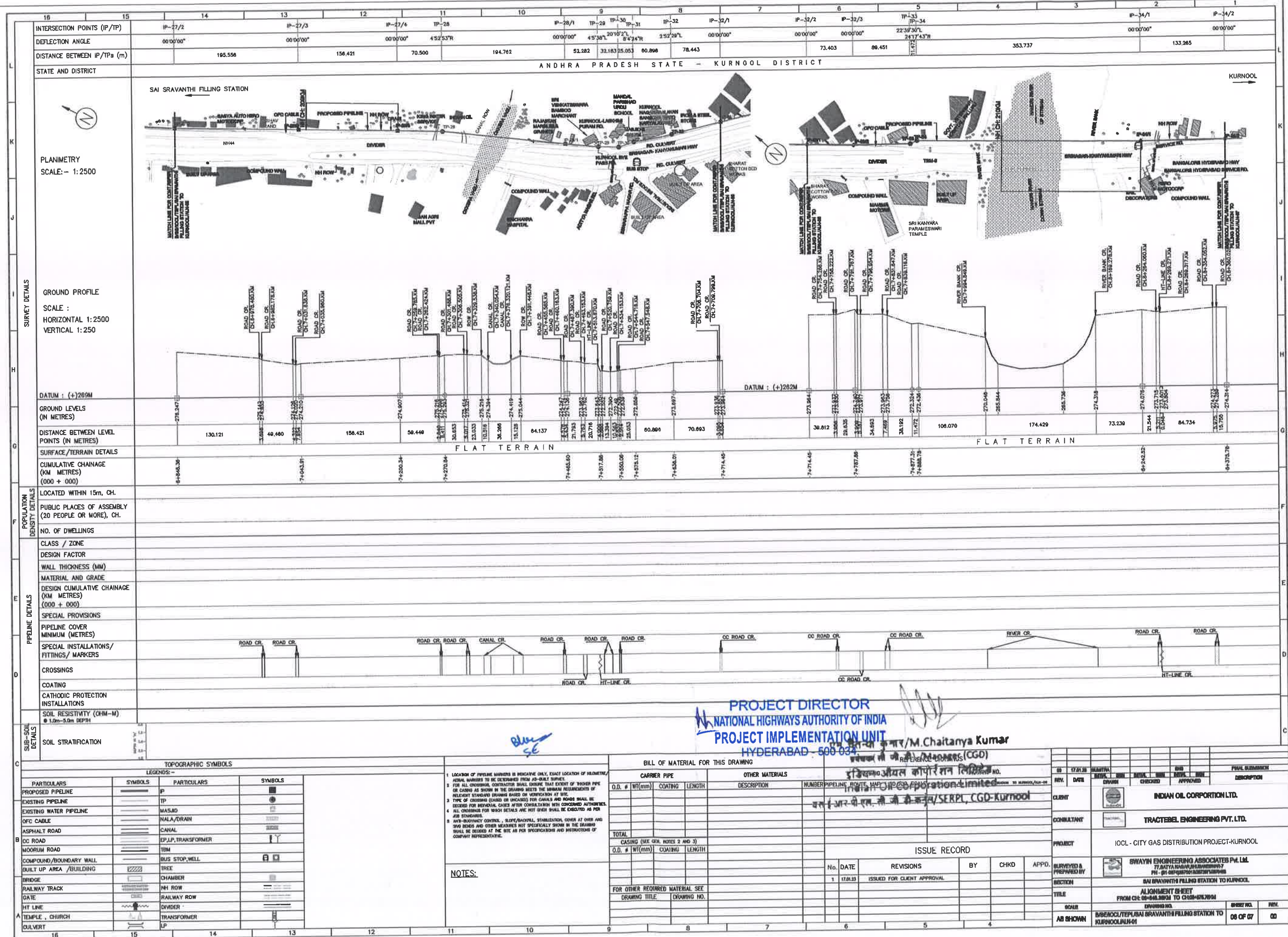
ALIGNMENT SHEET

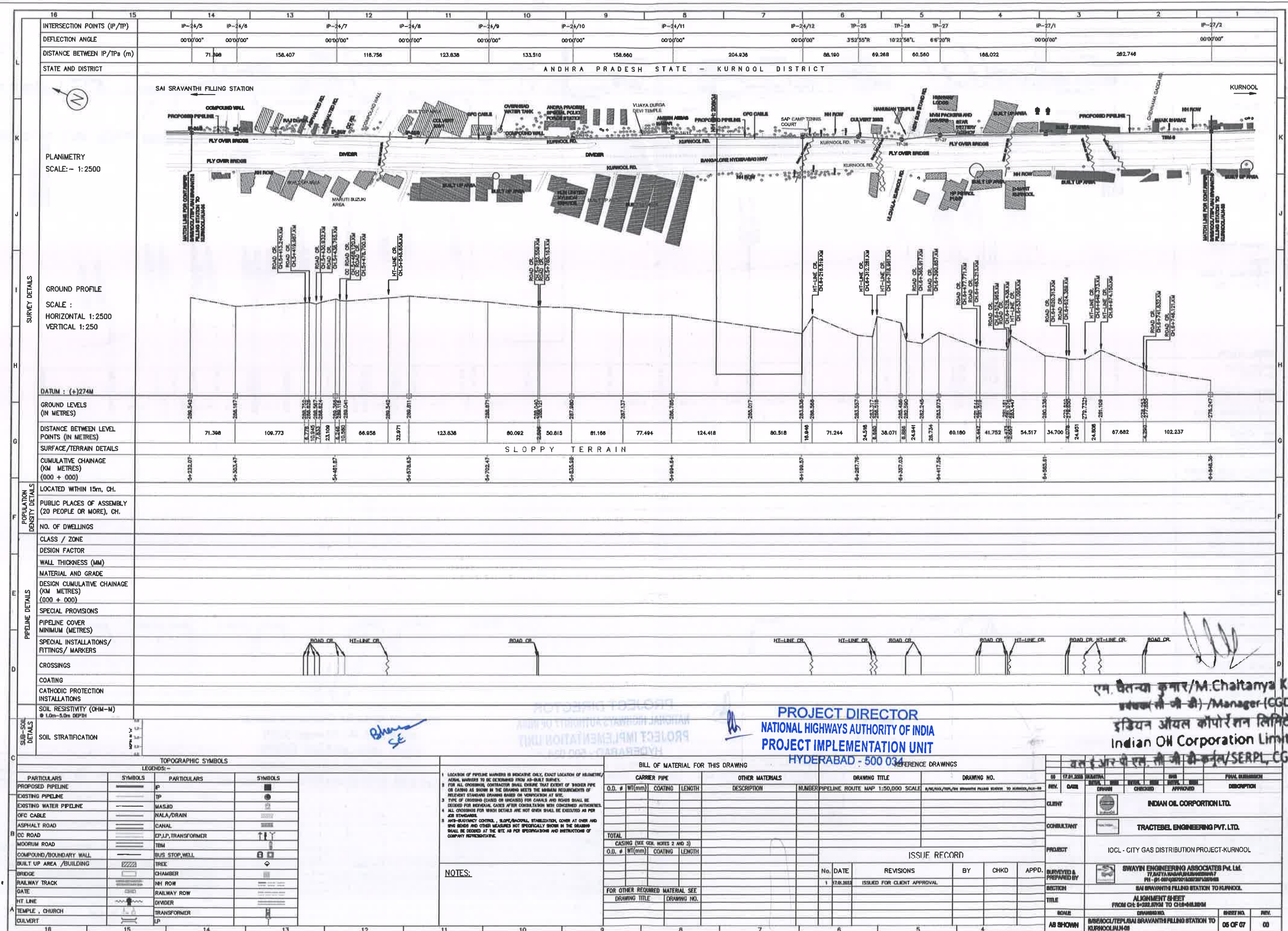
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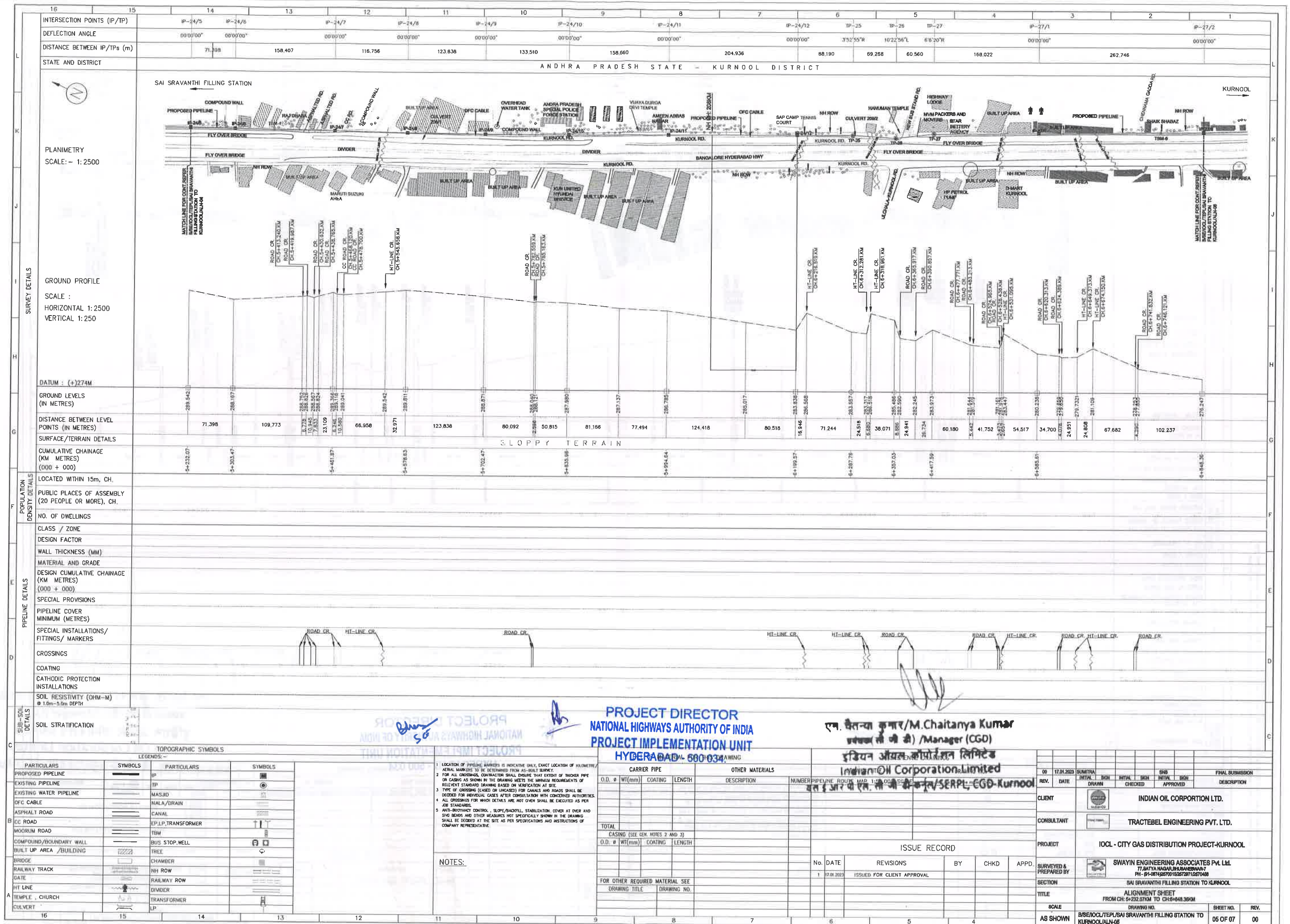
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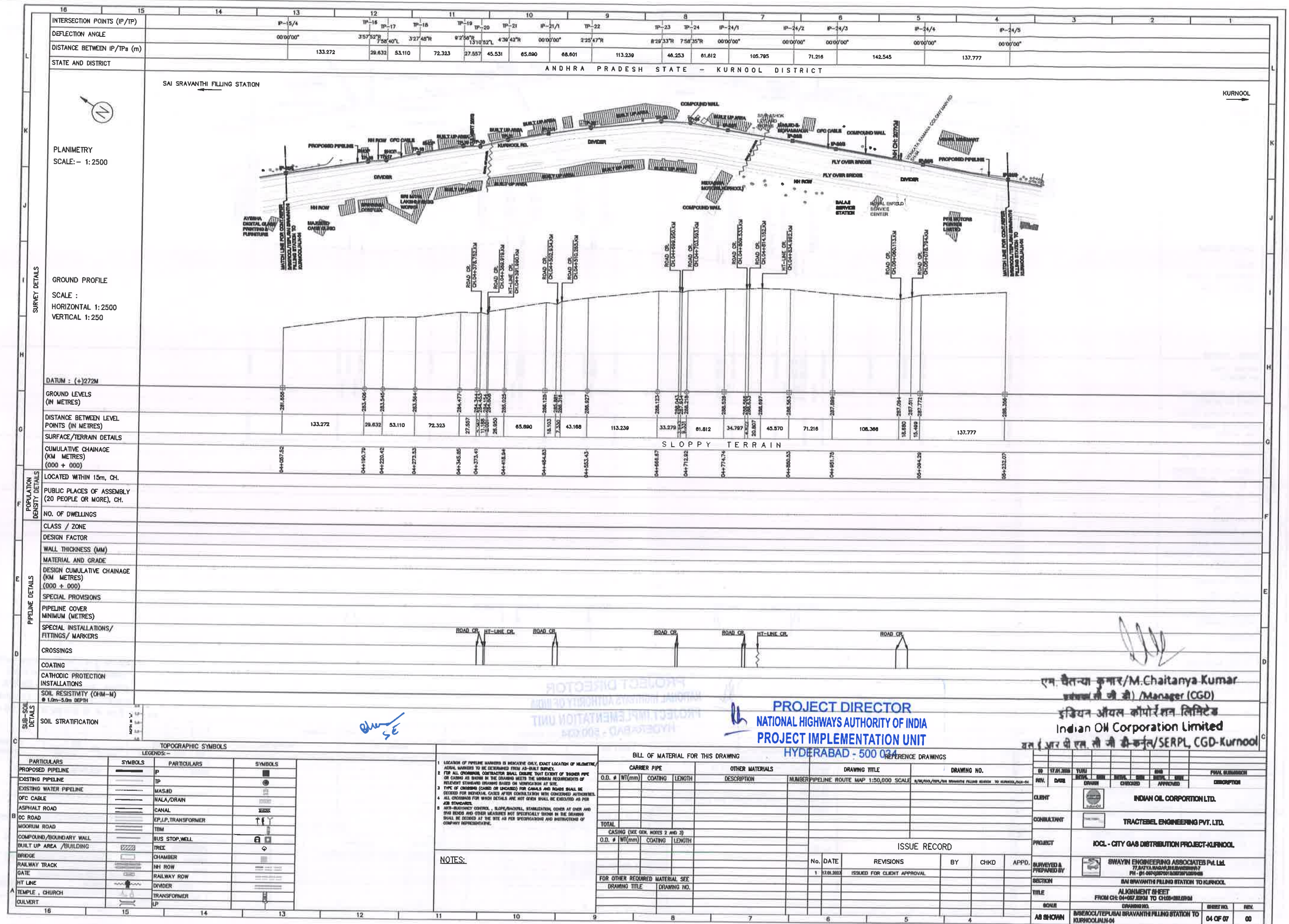




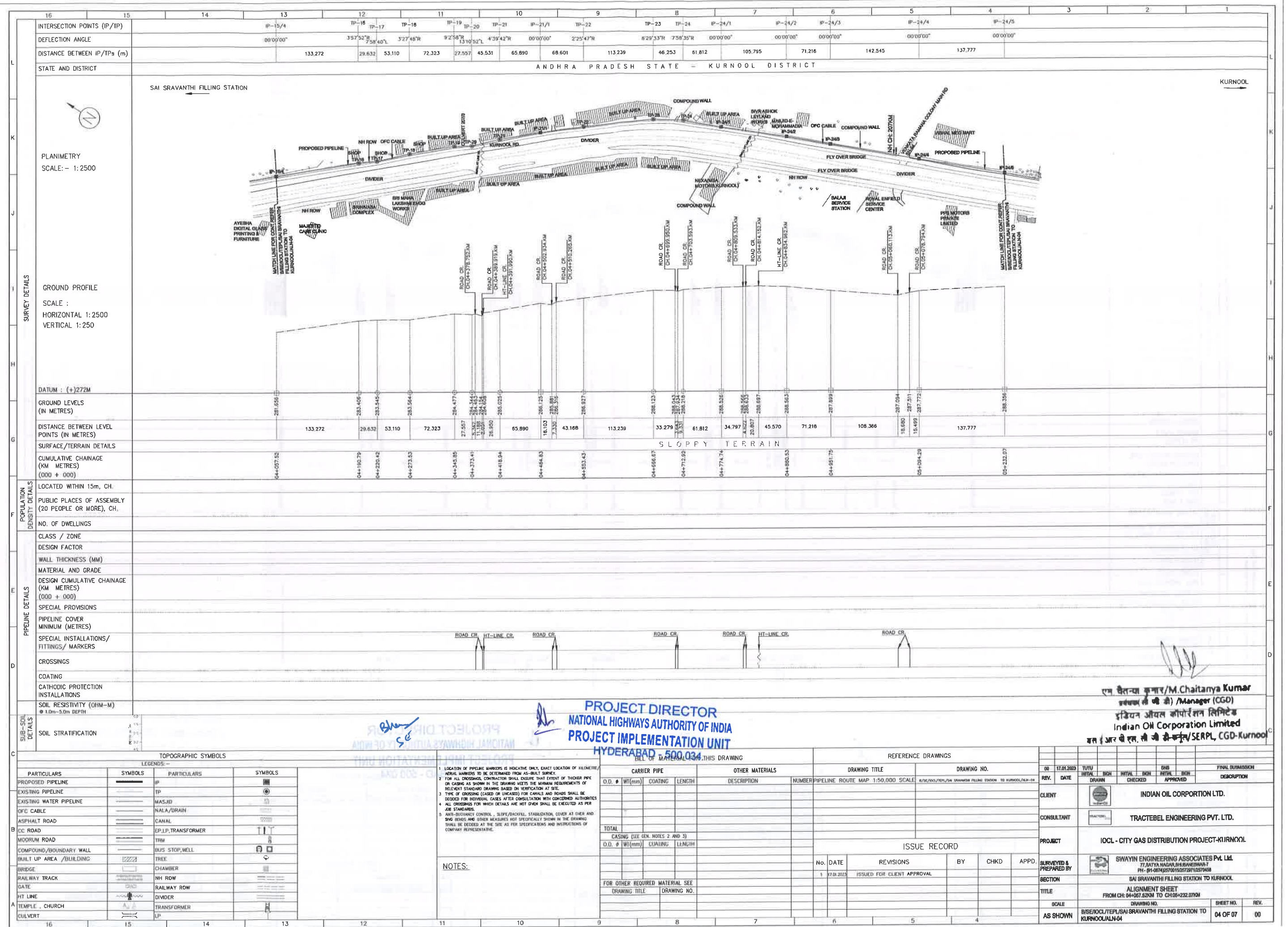
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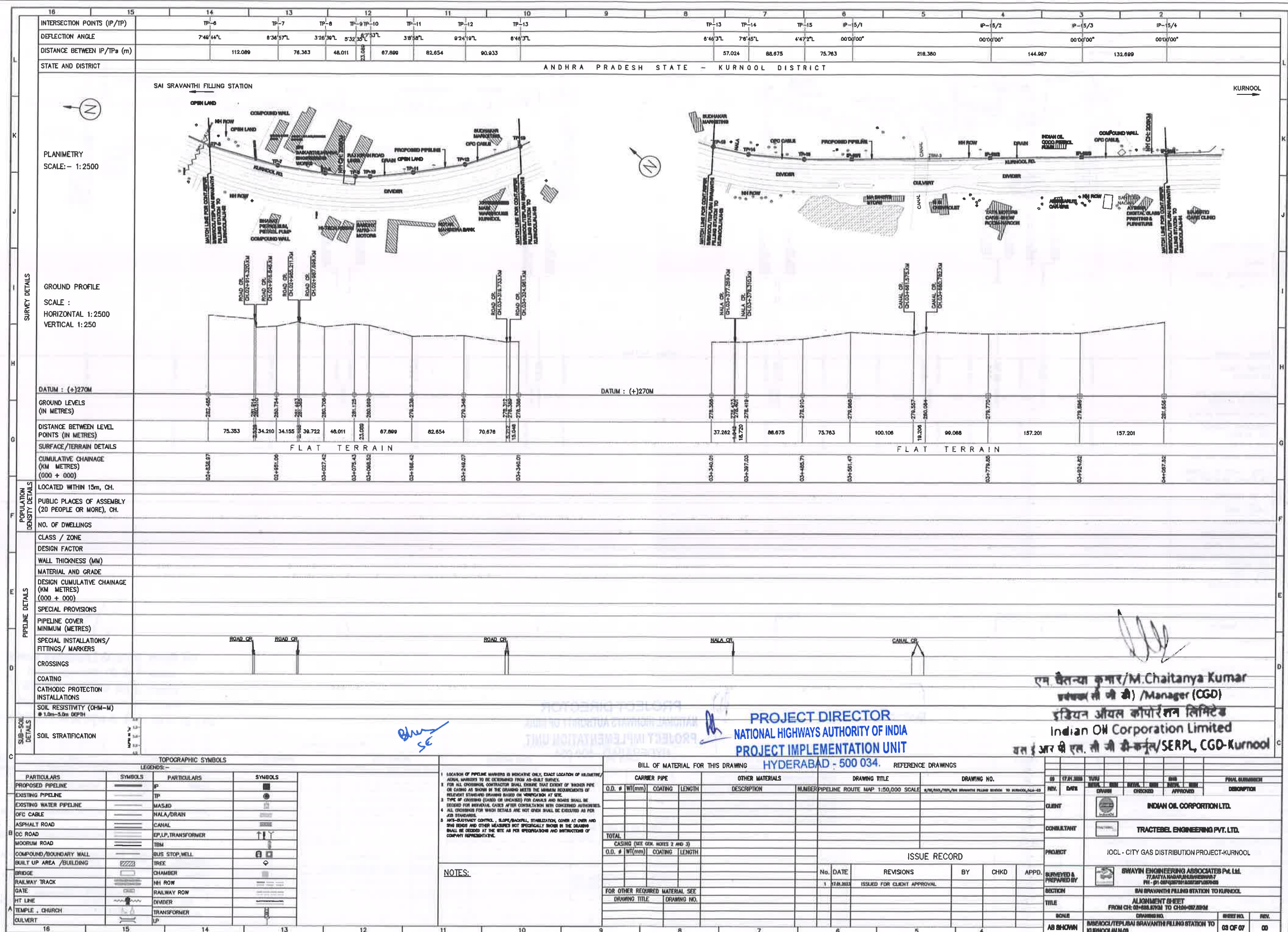
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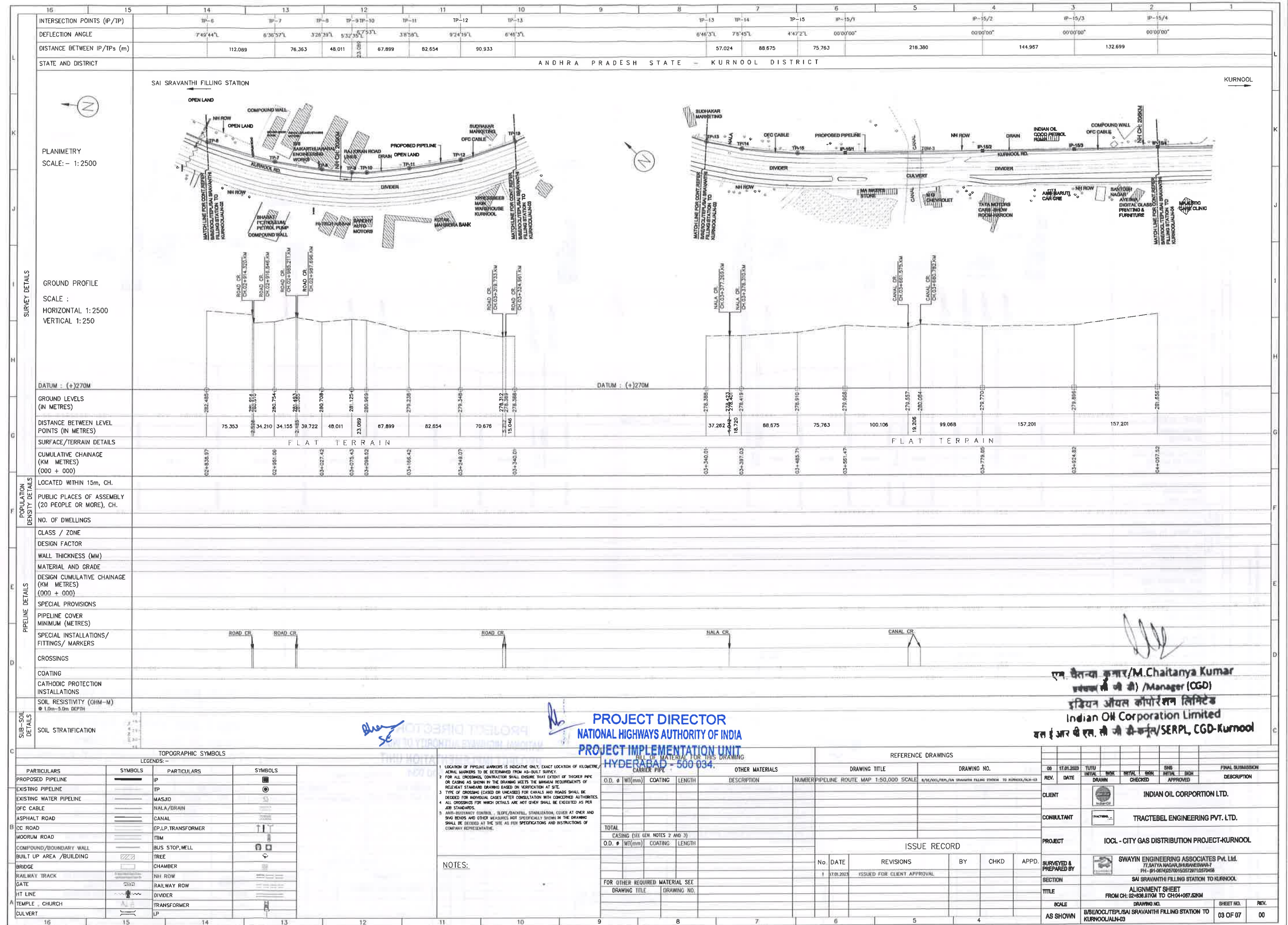
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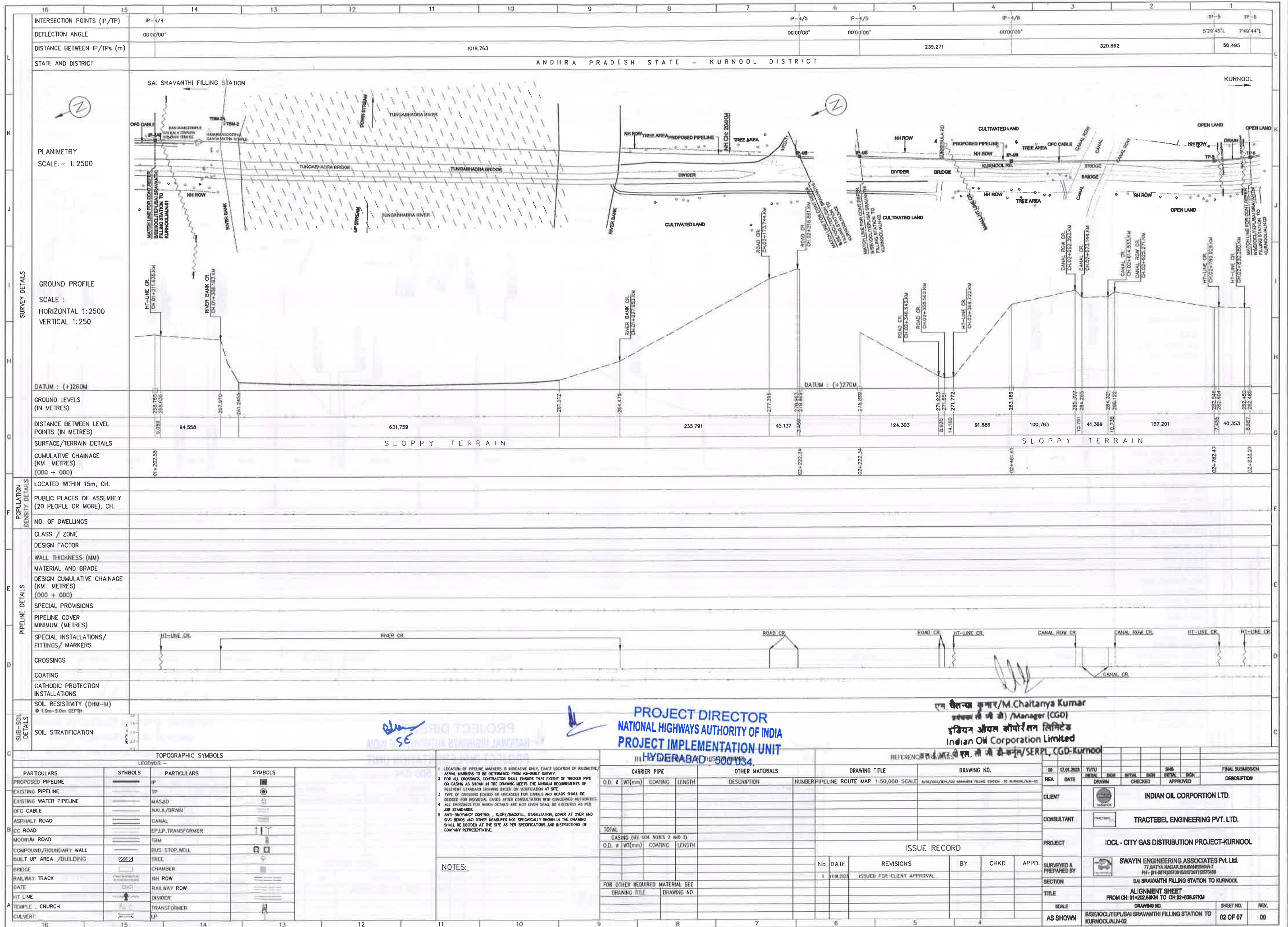


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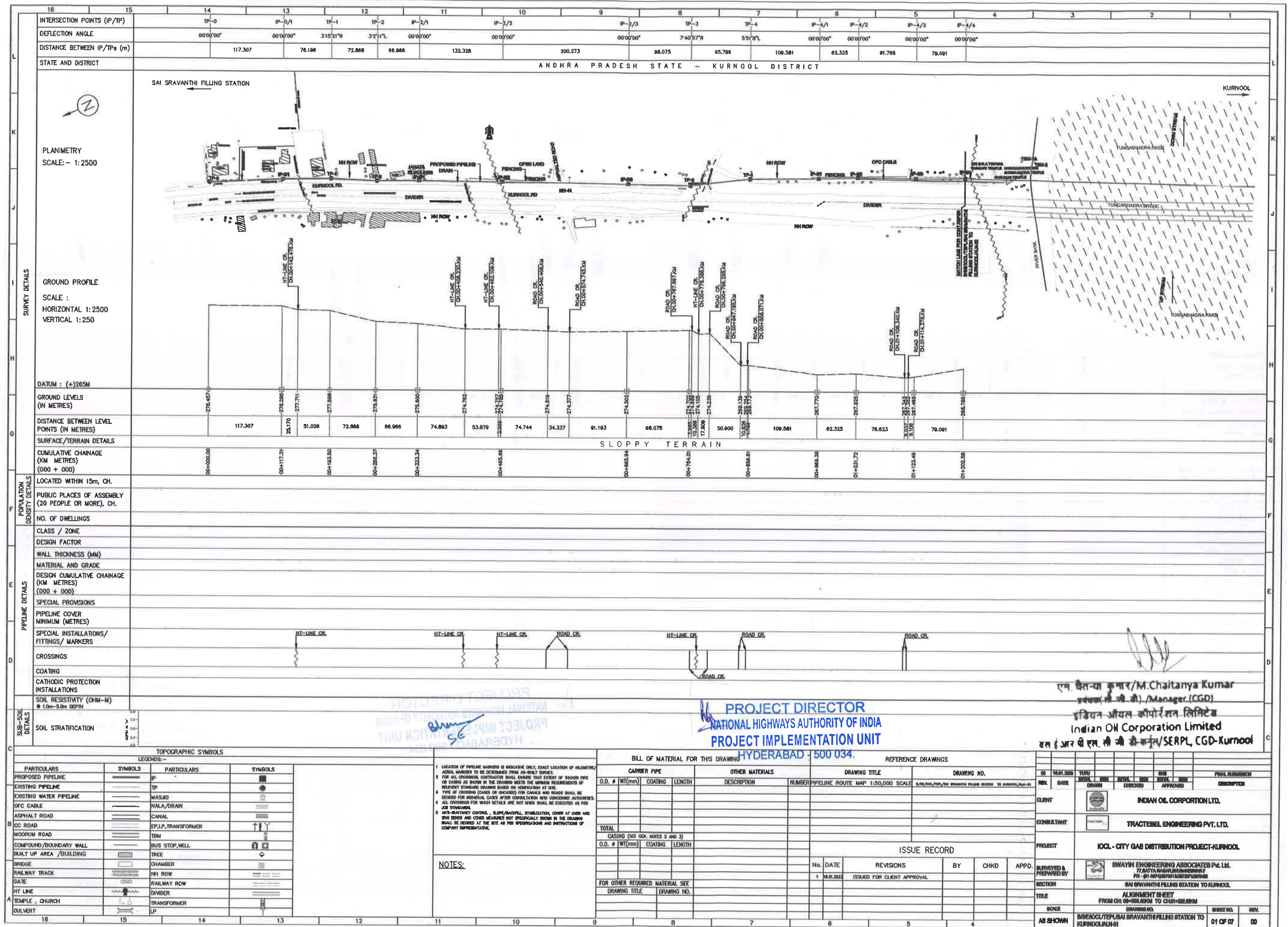


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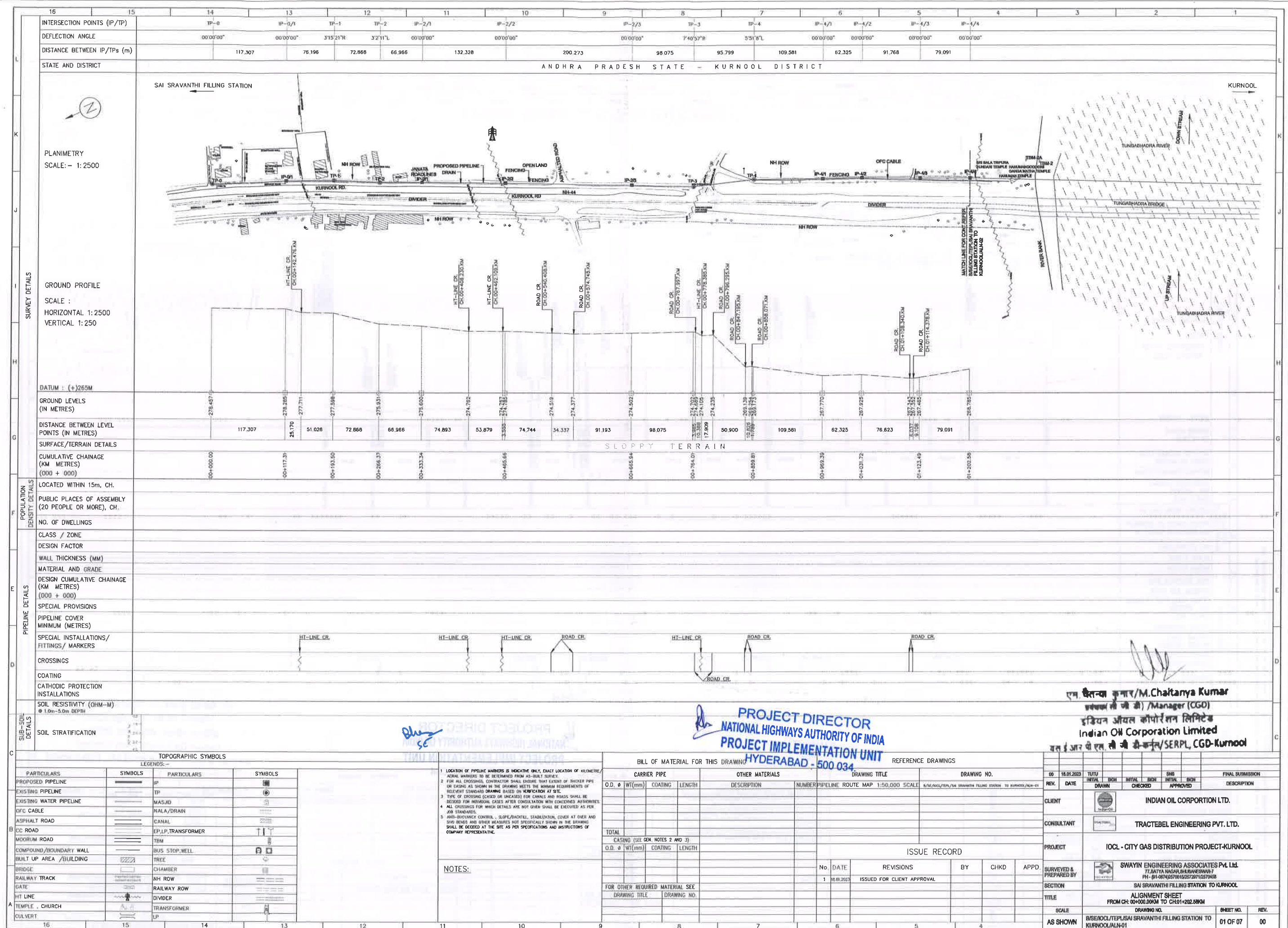
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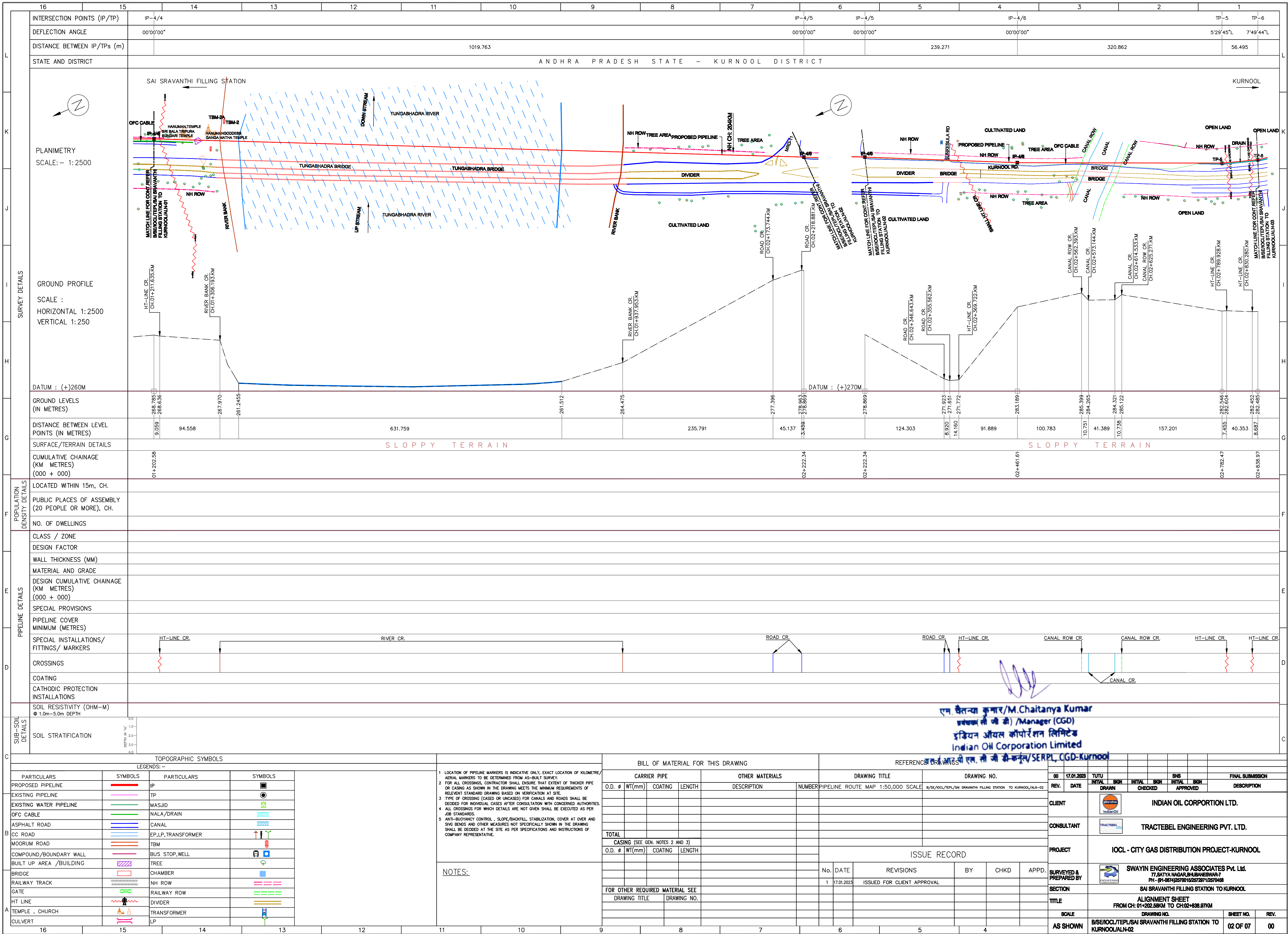
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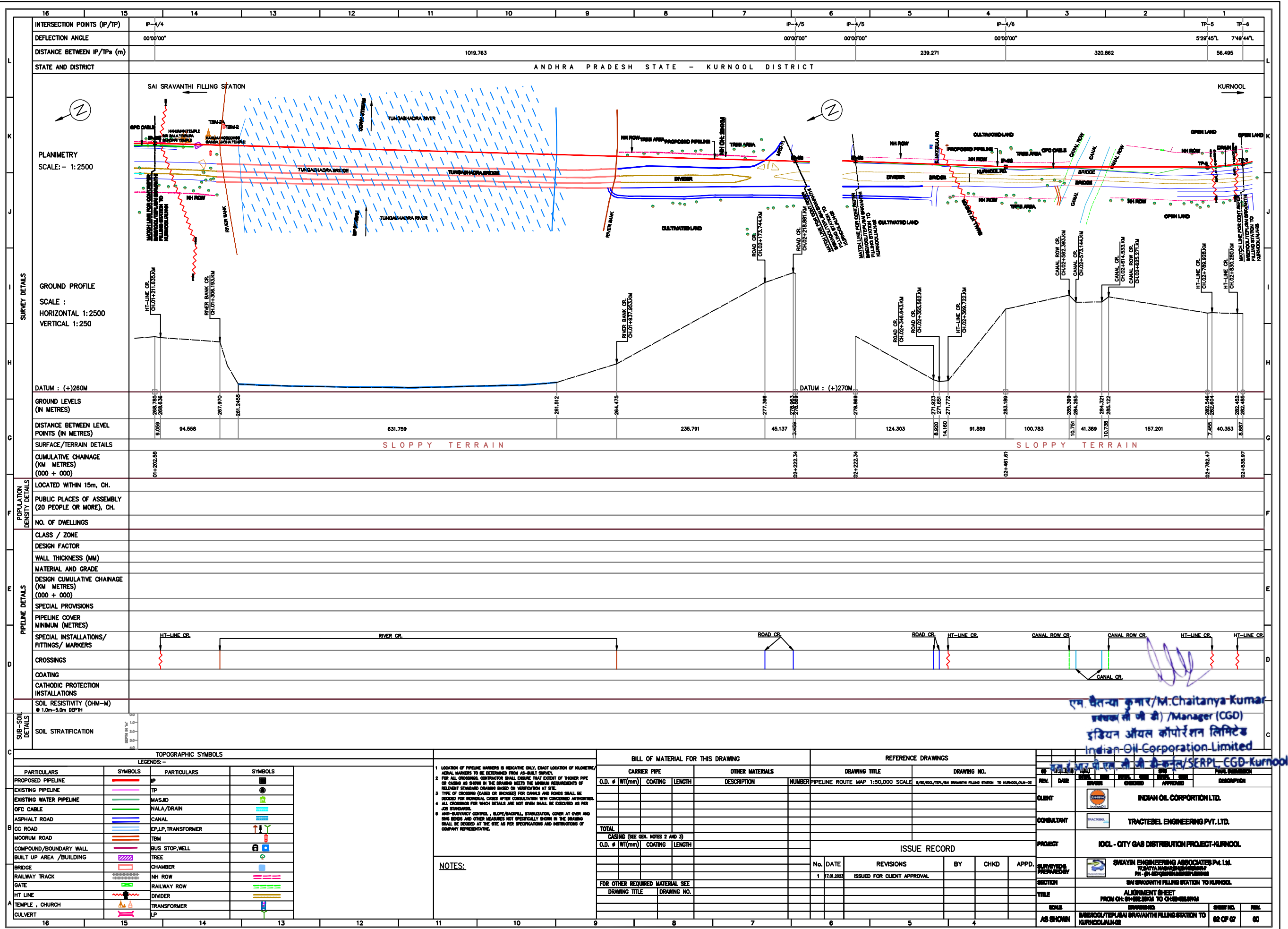
L	INTERSECTION POINTS (IP/TP)															
	TP-0	IP-0/1	TP-1	TP-2	IP-2/1	11	IP-2/2	9	IP-2/3	TP-3	7	TP-4	IP-4/1	IP-4/2	IP-4/3	IP-4/4
	DEFLECTION ANGLE															
	DISTANCE BETWEEN IP/TPs (m)															
	STATE AND DISTRICT															
K	PLANIMETRY SCALE: - 1:2500															
J	GROUND PROFILE SCALE : HORIZONTAL 1:2500 VERTICAL 1:250															
I	DATUM : (+)285M															
H	GROUND LEVELS (IN METRES)															
G	DISTANCE BETWEEN LEVEL POINTS (IN METRES)															
	SURFACE/TERRAIN DETAILS															
	CUMULATIVE CHAINAGE (KM METRES) (000 + 000)															
F	POPULATION DENSITY DETAILS															
E	PIPELINE DETAILS															
D	CROSSINGS															
C	SUB-SOIL DETAILS															
	TOPOGRAPHIC SYMBOLS															
	LEGENDS:-															
	BILL OF MATERIAL FOR THIS DRAWING															
	REFERENCE DRAWINGS															
	ISSUE RECORD															
	NOTES:															

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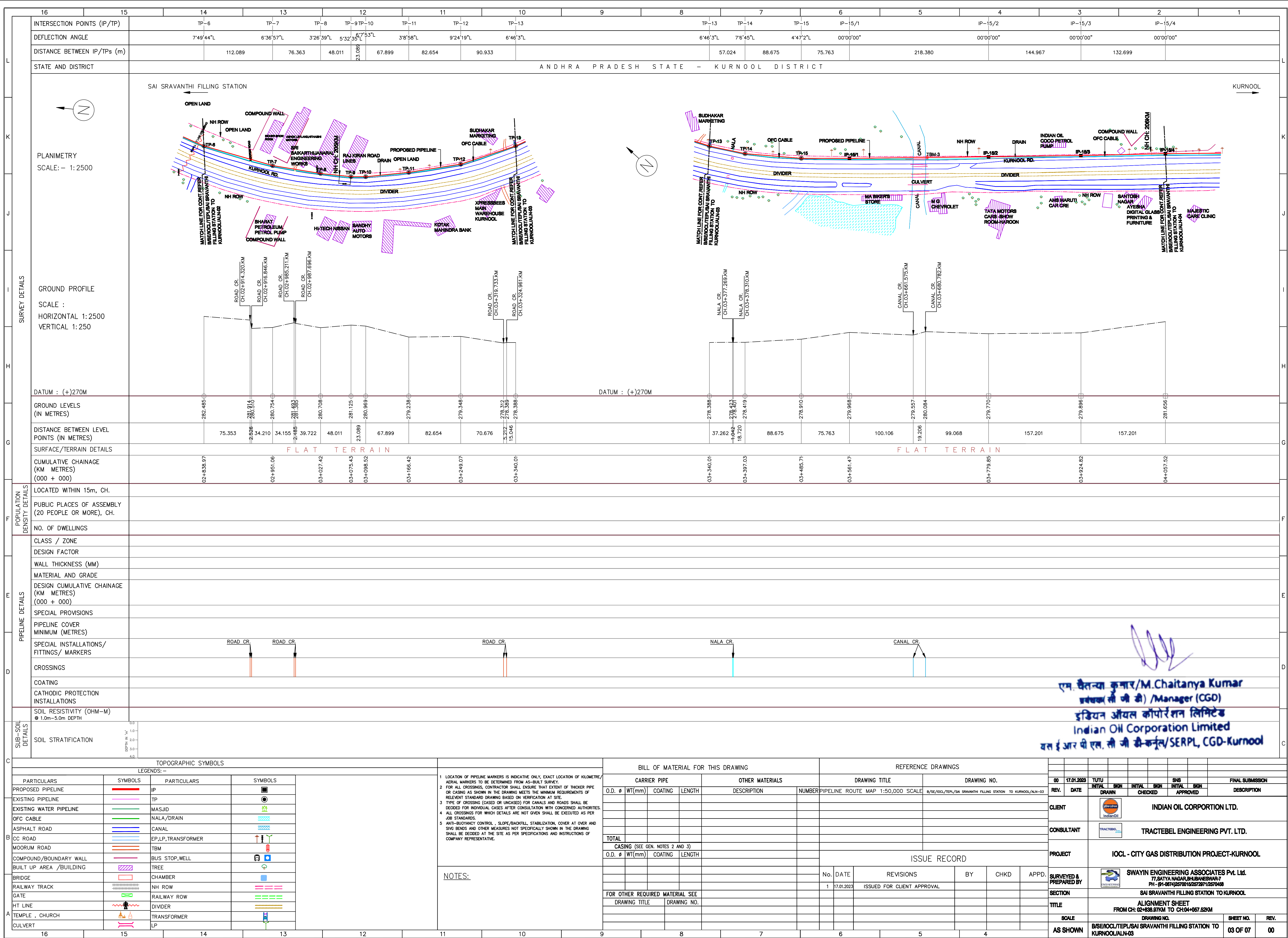


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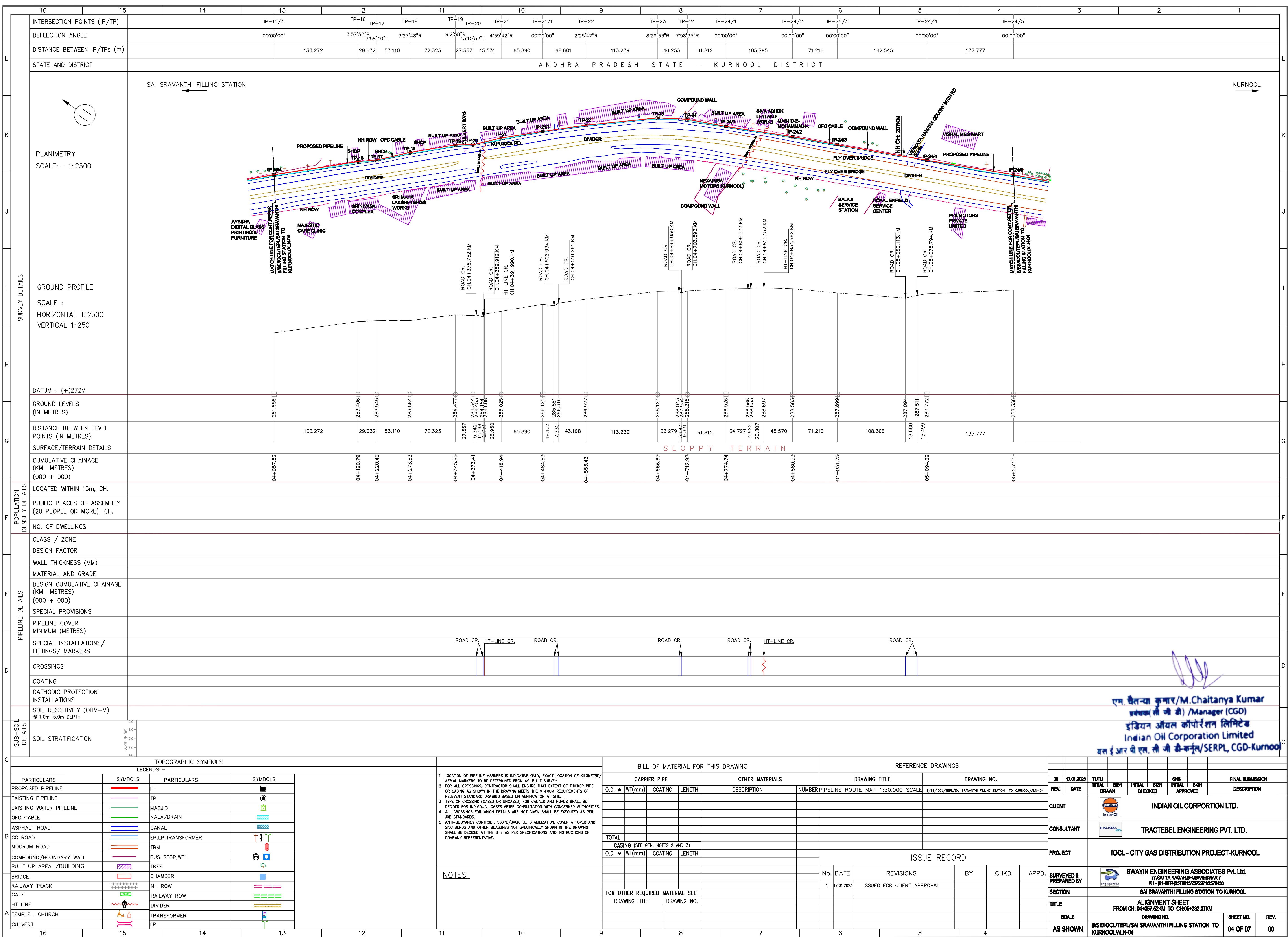
एन. चैतन्य कुमार/म. Chaitanya Kumar
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
KURNOOL/CL-01-01-01-01

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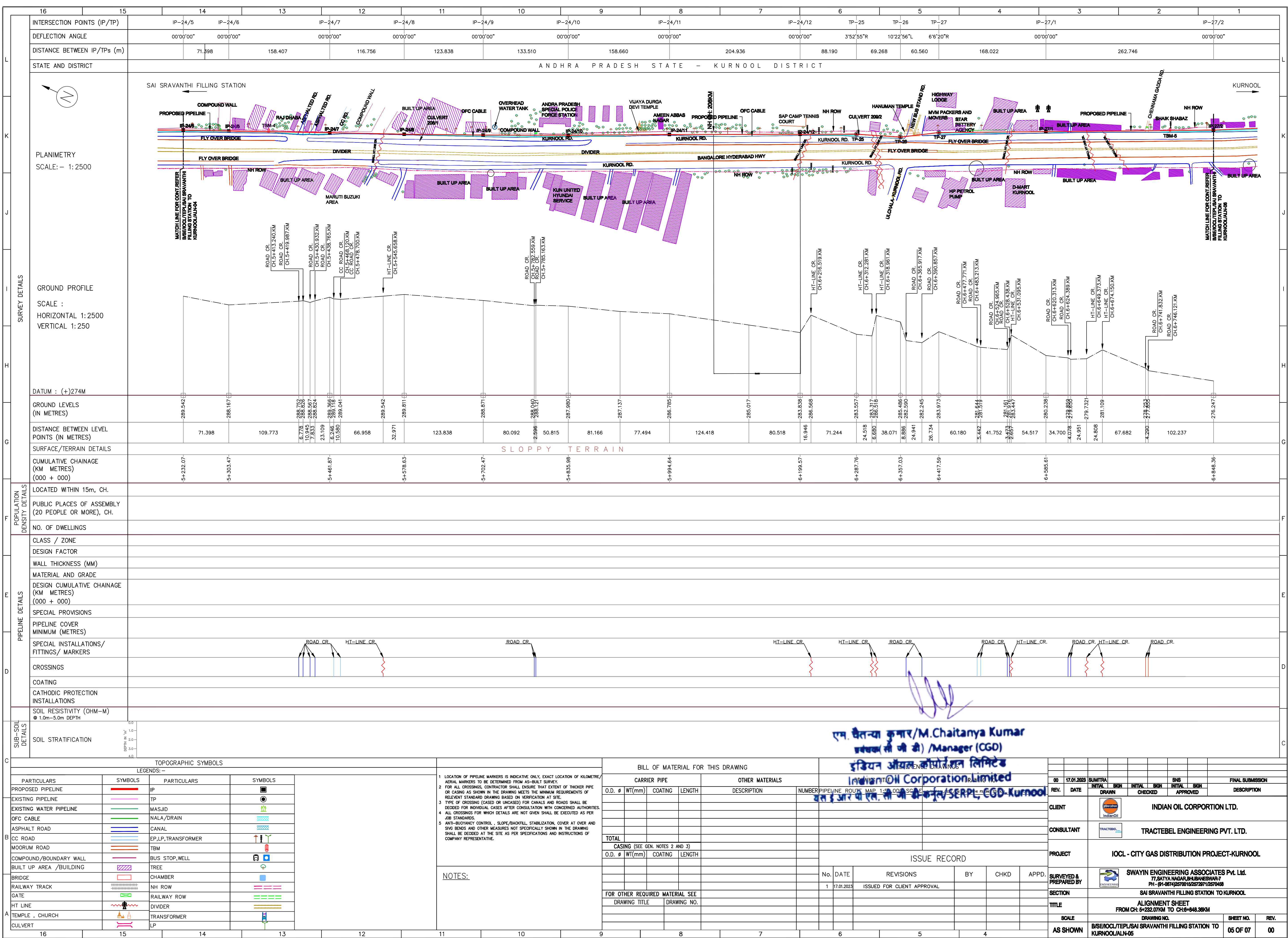
एम. चैतन्य कुमार/M. Chaitanya Kumar
इन्चार्ज (सी जी डी) /Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
वत ई आर वी एल. सी जी डी-कूर्नूल/SERPL, CGD-Kurnool

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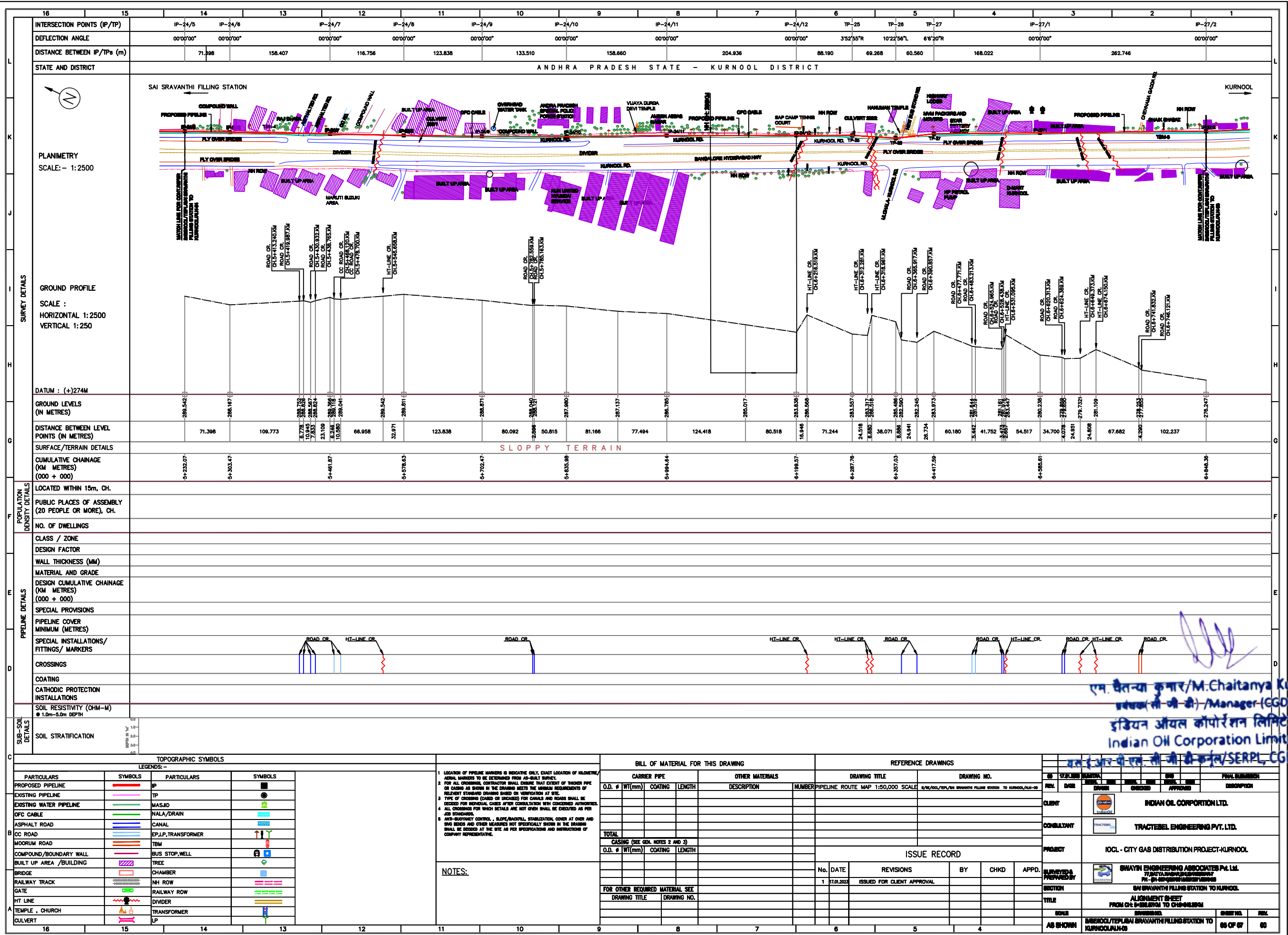


एम. चैतन्या कुमार/M.Chaitanya Kumar
प्रबंधक (सी जी सी) /Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
बल ई आर पी एल सी जी सी-कुर्नूल/SERPL, CGD-Kurnool

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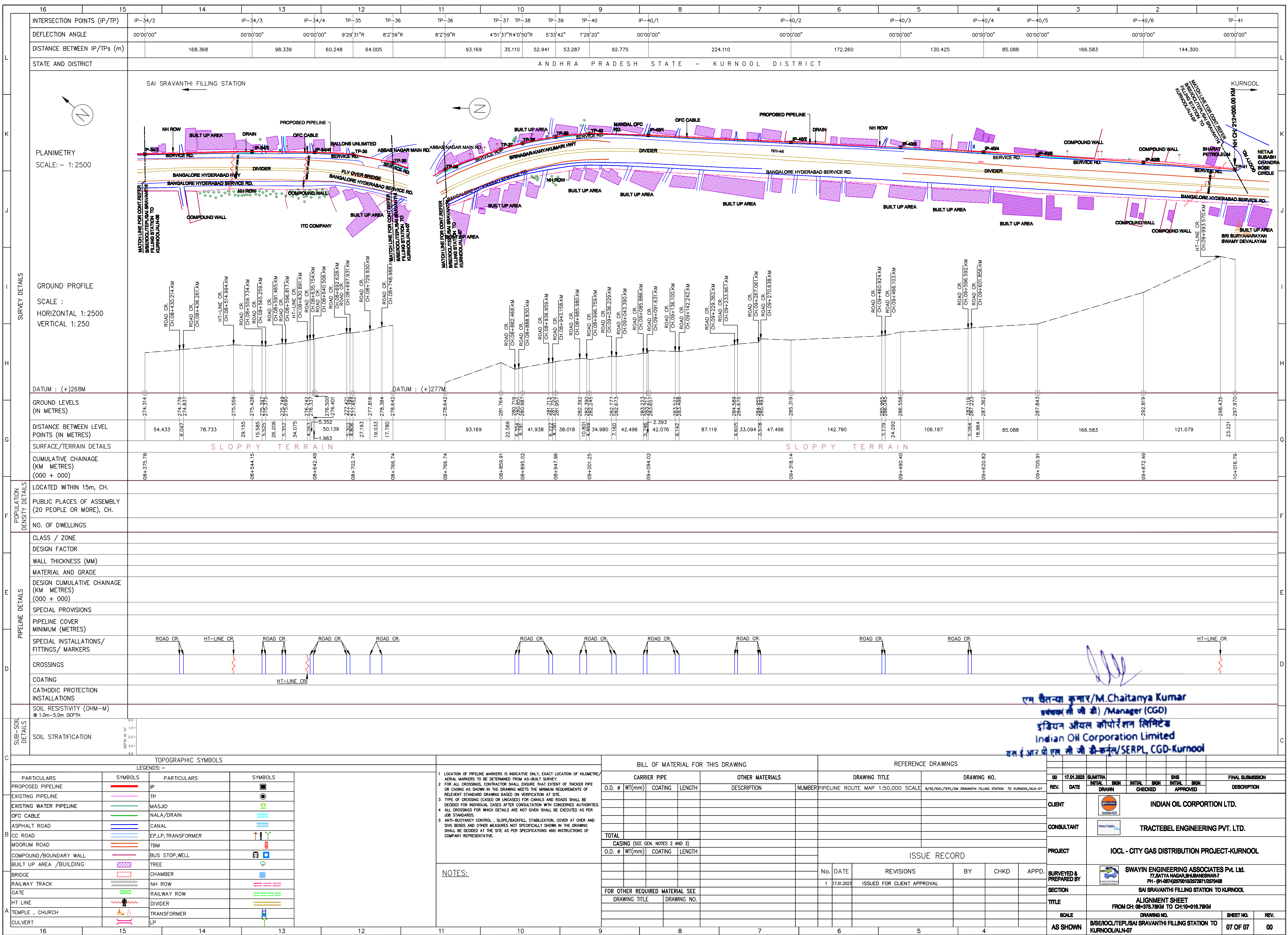


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प्रबंधक (सी.जी.डी.)/Manager (CGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
यम-1-अरवी-एल.सी.जी.डी.कूर्नूल/SERPL, CGD-Kurnool

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एन. चैतन्या कुमार/M. Chaitanya Kumar
इन्चार्ज (सी जी डी) /Manager (EGD)
इंडियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
यस ई आर पी एल सी जी डी कर्नूल/SERPL, CGD-Kurnool