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528424/2019 - 10 Pen/Sig

Director/Signal

Room No. 205, 2nd Floor, Annexe-I Building,
Government of India - Ministry of Railways
Research Designs & Standards Organisation
LUCKNOW - 226011

Ref: STS/E/Motor Operation of NI Points

7th February 2019

मुख्य संकेत एवं दूरसंचार अभियन्ता,	Chief Signal & Telecom Engineer,
मध्य रेलवे, मुंबई सी.एस.टी.- 400001	Central Rly, Mumbai CST- 400 001
पश्चिम रेलवे, चर्च गेट, मुंबई - 400020	Western Rly, Churchgate, Mumbai - 400 020
पूर्व रेलवे, फेयरली प्लेस, कोलकाता - 001	Eastern Rly, Fairlie Place, Kolkata - 700 001
दक्षिण पूर्व रेलवे, गार्डन रीच, कोलकाता - 43	South Eastern Rly., Garden Reach, Kolkata - 43
उत्तर रेलवे, बड़ौदा हाउस, नई दिल्ली - 01	Northern Rly., Baroda House, New Delhi- 01
पूर्वोत्तर रेलवे, गोरखपुर - 273012	Northeastern Rly., Gorakhpur - 273 012
पूर्वोत्तर सीमान्त रेलवे, मालीगांव, गुवाहाटी 11	North Frontier Rly., Maligaon, Guwahati- 011
दक्षिण रेलवे, पार्क टाउन, चेन्नई - 600 003	Southern Rly., Park Town, Chennai -600 003
दक्षिण मध्य रेलवे, सिकन्द्राबाद -500 371	South Central Rly, Rail Nilayam, Secunderabad-71
पूर्व मध्य रेलवे, हाजीपुर - 841 101	East Central Railway, Hazipur - 841 101
उत्तर पश्चिम रेलवे, जयपुर-300206	North Western Railway, Jaipur-300206
पूर्व तटीय रेलवे, ग्राउन्ड तल, उत्तरी ब्लाक, समन्त विहार, भुवनेश्वर-17	East Coast Railway, Rail Vihar, Ground floor, North Block, Samant Vihar, Bhubneshwar -17
उत्तर मध्य रेलवे, गंगा काम्पलेक्स, सूबेदारगंज, इलाहाबाद।	North Central Railway, Ganga Complex, Subedarganj, Allahabad.
दक्षिण पश्चिम रेलवे, क्लब रोड, केशवपुर, हुबली- 580023	South Western Railway, Club Road, Keshavpur, Hubli - 23
पश्चिम मध्य रेलवे, जबलपुर - 482 001	West Central Railway, 2 nd Floor, DRM Office, Jabalpur - 01
दक्षिण पूर्व मध्य रेलवे, आर0ई0 ऑफिस काम्पलेक्स, बिलासपुर- 495004	South East Central Railway, R. E. Office Complex, Bilaspur-495004

Sub: Motor operation of Non-interlocked points.

- Ref: 1. PED/Signal, Rly. Board's letter No. 2010/Sig/SGF/Point Machine dt. 25.09.18.
2. This office letter of even no. dt. 19.11.18.
3. Director/Signal, Rly. Board's letter No. 2010/Sig/SGM/Pt. Machine dt. 29.01.19 (Copy enclosed).

In reference to Railway Board letter (Ref. 1) instructing RDSO to develop a schematic with minimal circuitry for motorised operation of non-interlocked points protected with track circuits/axle counter and shunt signal. Please find attached the schematic wiring diagram for the same (in 05 sheets), duly approved by Railway Board (Ref. 2).

However, while implementing the same following needs to be taken care:-

- (i) Crank handle for the same has not been interlocked, as such instructions regarding its operation shall be duly covered in Station/Yard Working Rules, ensuring safety movement of train in yard.

मंत्रालय (रेलवे)
Ministry of Railways (Railway Board)
Contd. 2/-
14 FEB 2019

- (ii) With provision of Track Circuit/Axle Counter on the point zone, necessary corrections required may be made in the CSR and accordingly SWR/SWRD should be corrected.
- (iii) Manpower for maintenance may be ensured.
- (iv) This is only an indicative scheme.

This has the approval of competent authority.

DA: As above

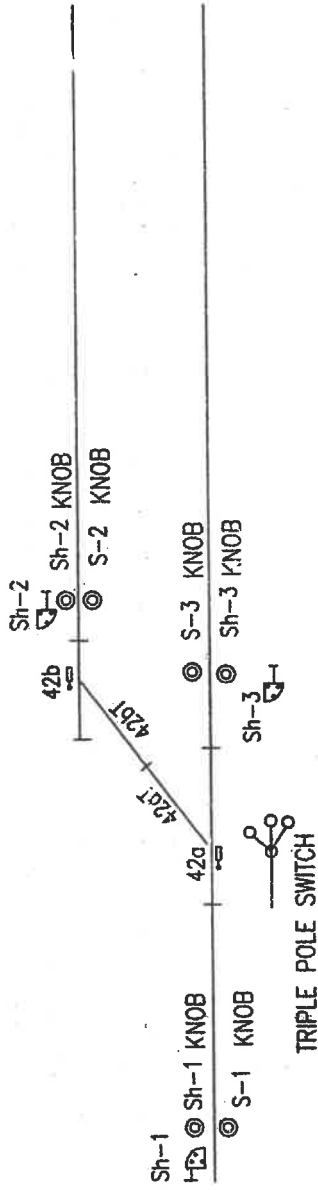
AK
7.2.19
(A. K. Singh)
Director/Signal
for Director General/ Signal

✓ Copy to: The Principal Ex. Director/Signal, Railway Board, Rail Bhawan, New Delhi – for kind information please.

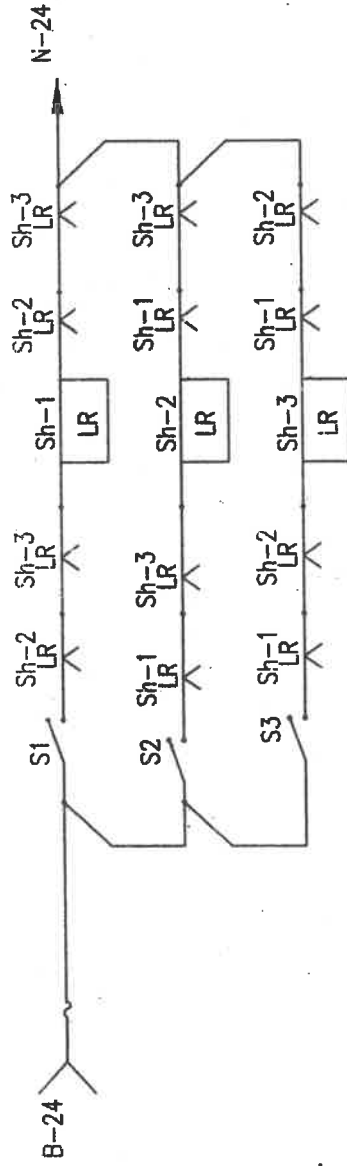
DA: As above

AK
7.2.19
(A. K. Singh)
Director/Signal
for Director General/ Signal

YARD DIAGRAM

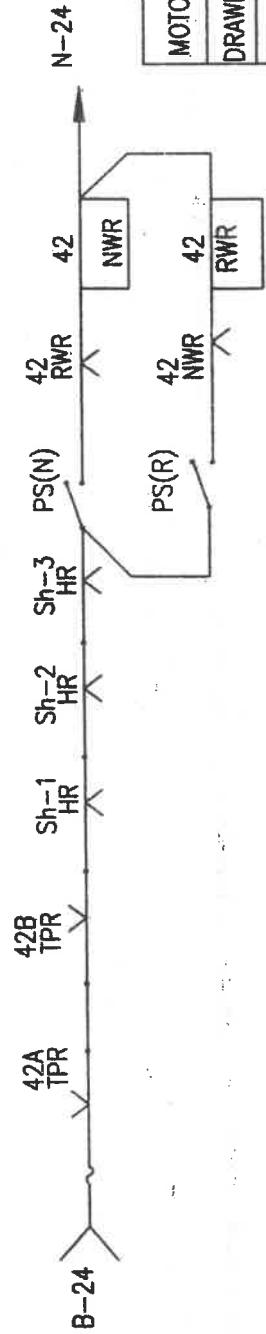


LR Circuit



S1, S2, S3 → 15 Amp Switch (Two Position Switch)

POINT OPERATION CIRCUIT



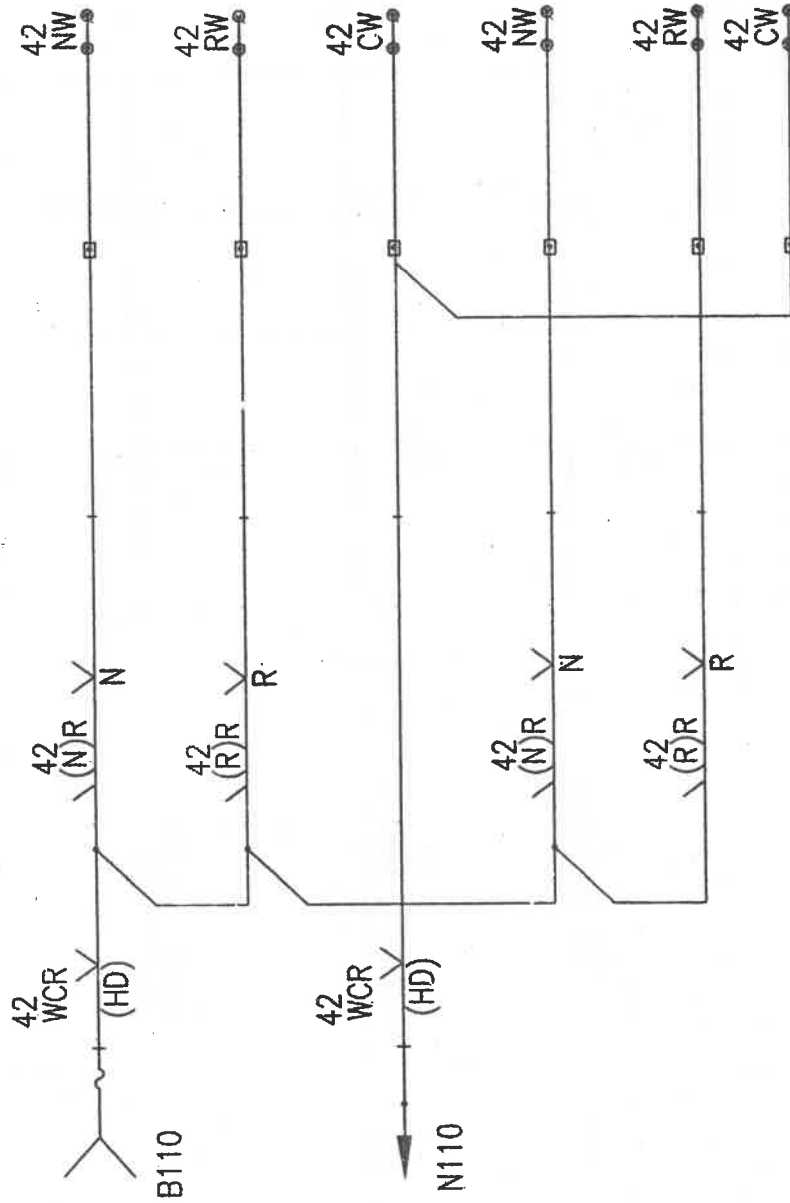
PS(N), PS(R) → 15 Amp Switch (Three Position Switch)

MOTOR OPERATION OF NON INTERLOCKED POINTS

DRAWN BY- *[Signature]* 2-19-58 SHEET 1 OF 5

CHD & ISSUED BY- *[Signature]*
7.2.10

POINT OPERATION CIRCUIT



MOTOR OPERATION OF NON INTERLOCKED POINTS

DRAWN BY - *cor* / 19/19

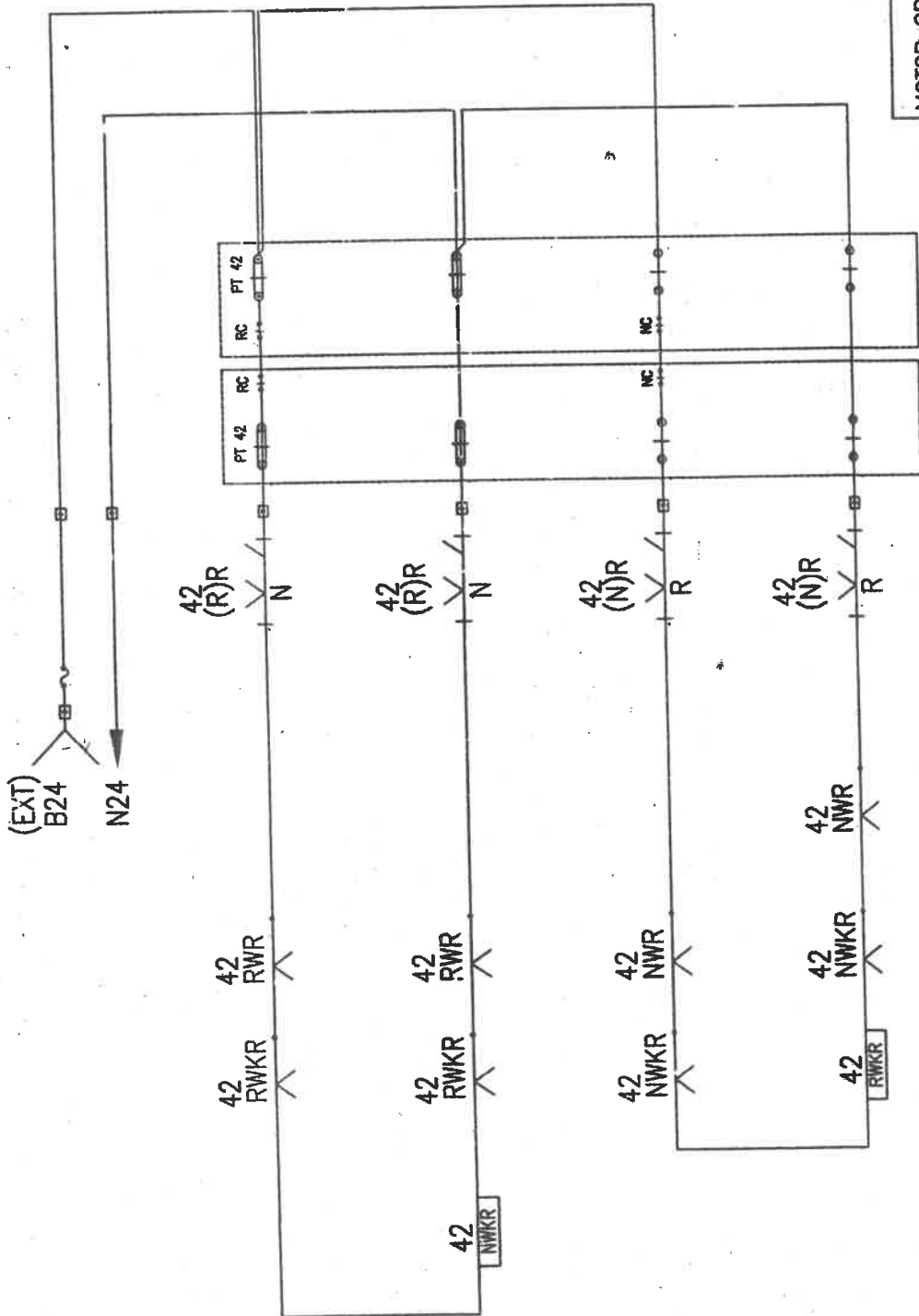
SHEET

3 OF 5

CHD & ISSUED BY - *me*

7.2.19

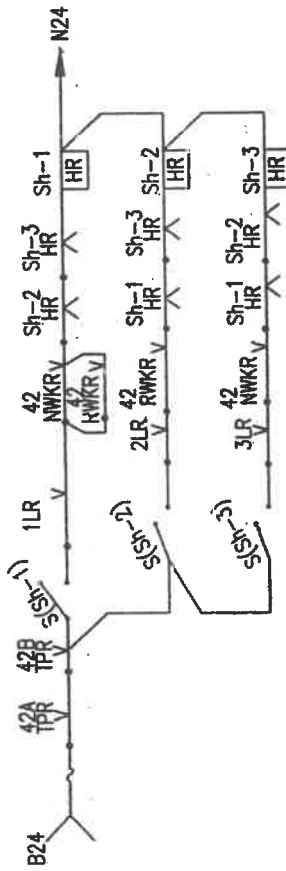
POINT DETECTION CIRCUIT



MOTOR OPERATION OF NON INTERLOCKED POINTS
 DRAWN BY - *combs* 7.1.19/5.3.19/47
 CHD & ISSUED BY - *Dr* 7.1.19

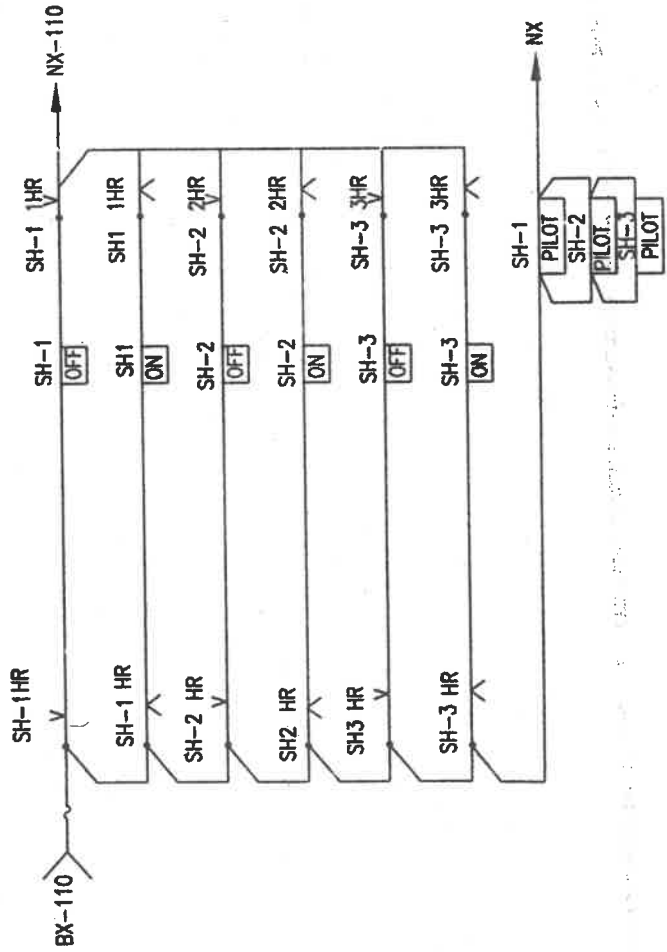
SHEET 4 OF 5

SIGNAL RELAY CIRCUIT



SH - 1, SH- 2, SH - 3 - (Two Position Switches)

SIGNAL LIGHTING CIRCUIT



MOTOR OPERATION OF NON INTERLOCKED POINTS
 DRAWN BY- *corbett* 2/2/19
 CHD & ISSUED BY- *DX* 7.2.19
 SHEET 5 OF 5