Walls, Junction & Map

New drawings | 8 sheets | Retaining walls, boundary walls, flaring, WSS map

HELP THE
Engineer

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Note

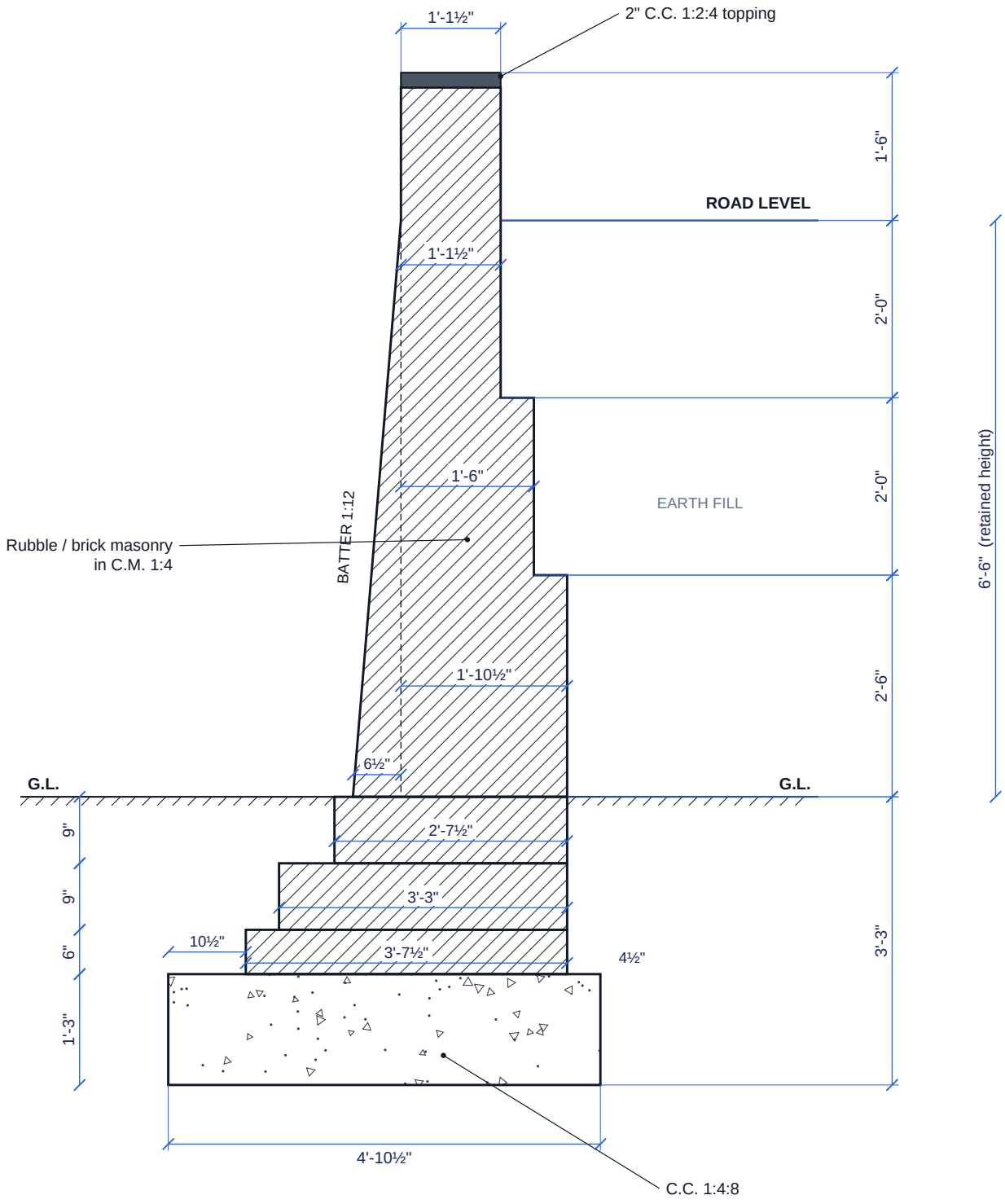
Typical drawings used on rural / district road works. For guidance and reference only.
Verify dimensions, design and current IRC / MoRD / PWD specifications before construction.

RETAINING WALL 6'-6" HIGH

All dimensions in feet & inches. Not to scale.

NOTES

1. Masonry: stone rubble or brick in cement mortar 1:4.
2. Top 2" thick C.C. 1:2:4 topping.
3. Front face battered 1:12; back face stepped as shown.
4. Foundation C.C. 1:4:8 on firm, levelled ground.
5. Provide weep holes (75 mm PVC) at 1.5 m c/c with filter media behind.
6. Section is typical for good soil; check stability for the actual site before use.

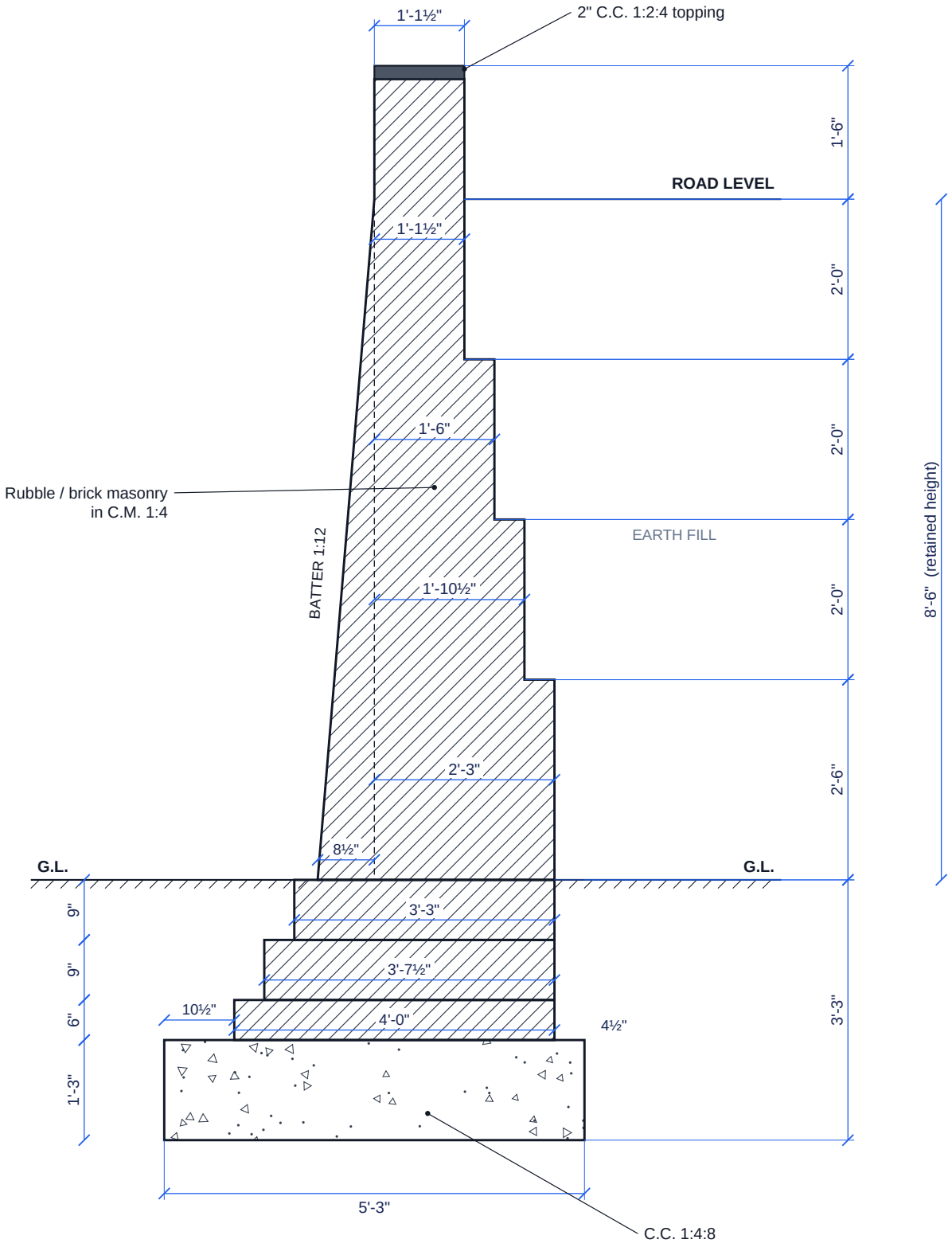


RETAINING WALL 8'-6" HIGH

All dimensions in feet & inches. Not to scale.

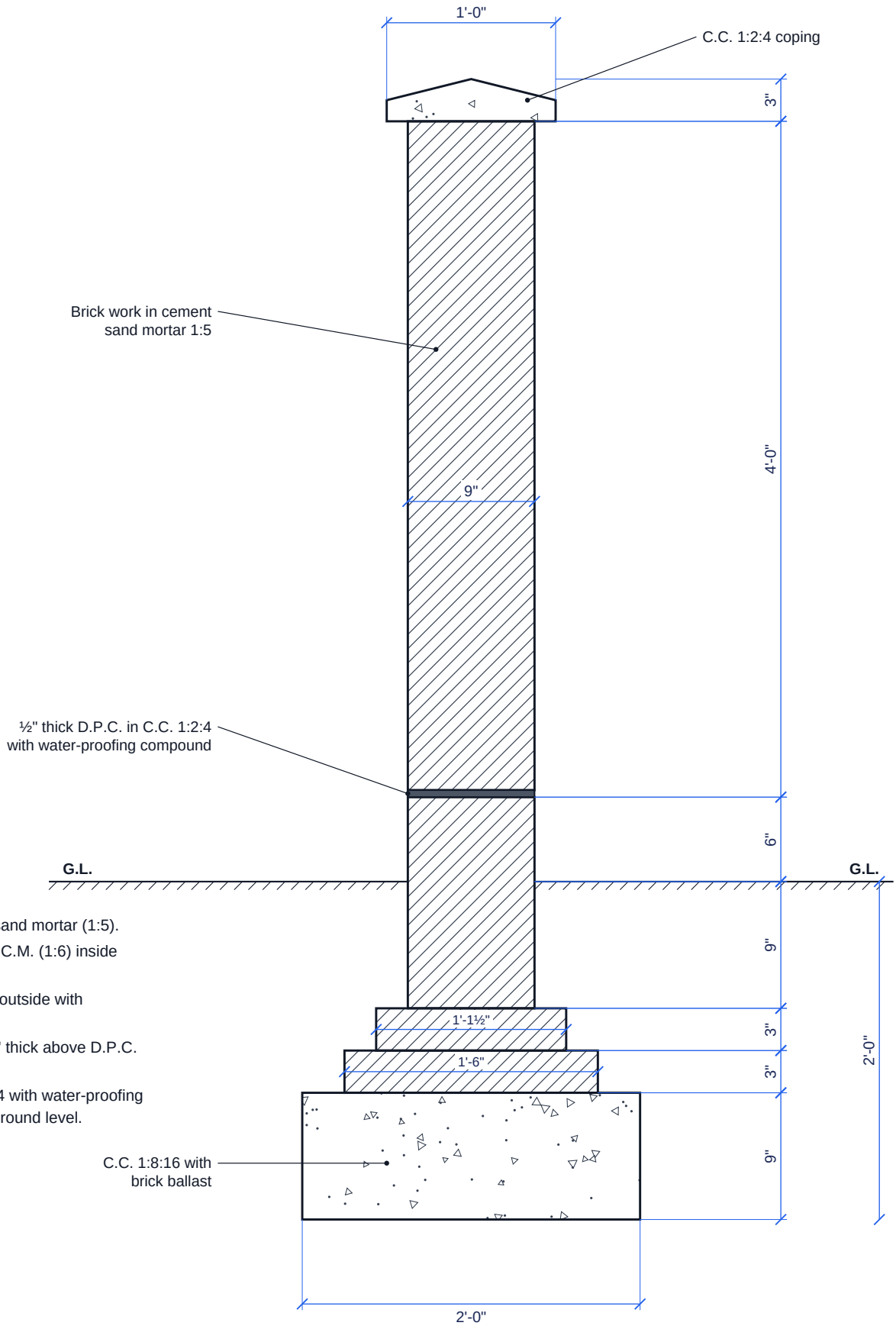
NOTES

1. Masonry: stone rubble or brick in cement mortar 1:4.
2. Top 2" thick C.C. 1:2:4 topping.
3. Front face battered 1:12; back face stepped as shown.
4. Foundation C.C. 1:4:8 on firm, levelled ground.
5. Provide weep holes (75 mm PVC) at 1.5 m c/c with filter media behind.
6. Section is typical for good soil; check stability for the actual site before use.



BOUNDARY WALL 9" THICK, 4'-9" HIGH

All dimensions in feet & inches. Not to scale.

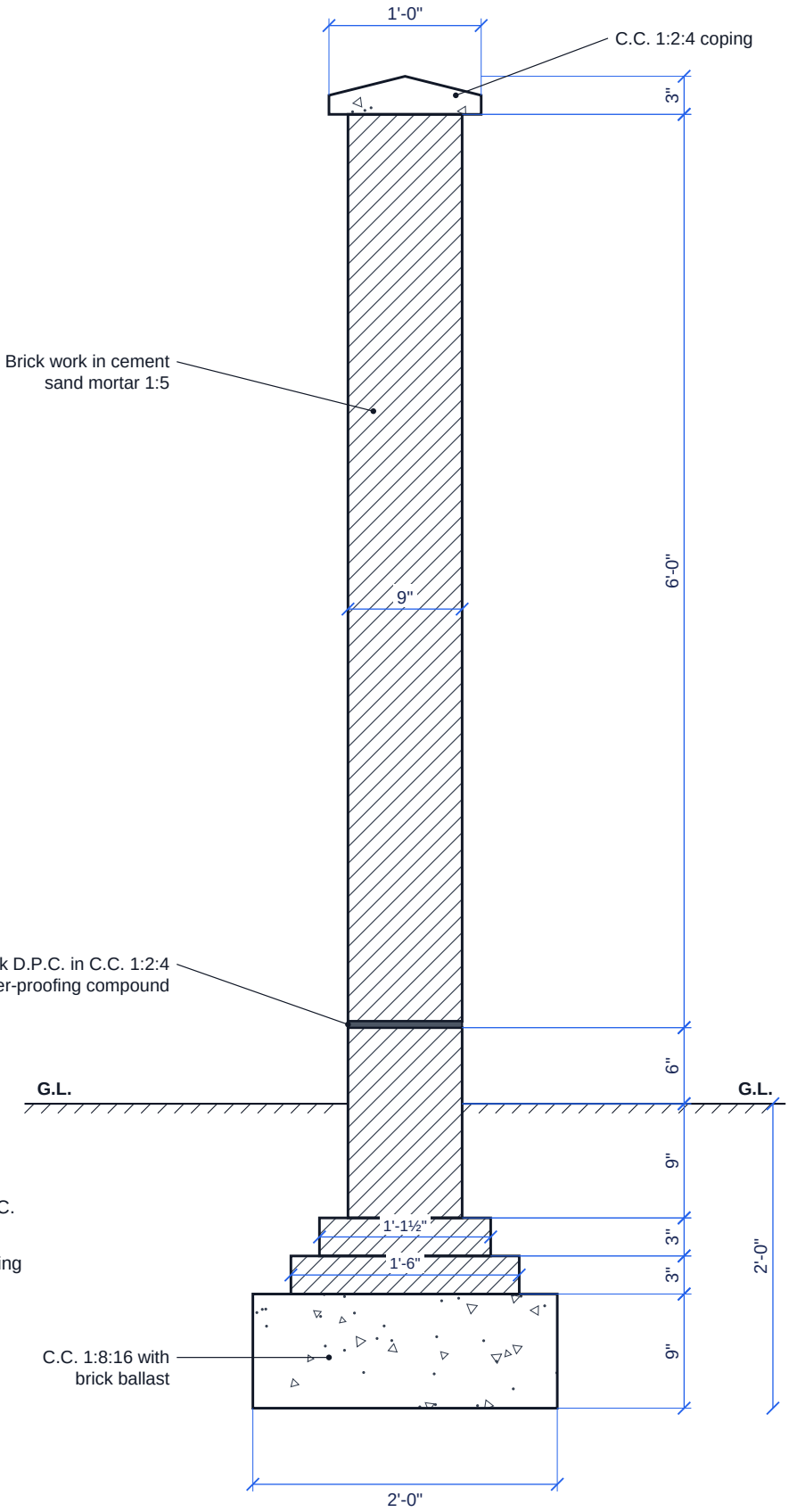


NOTES

1. Brick work in cement sand mortar (1:5).
2. 20 mm thick plaster in C.M. (1:6) inside with white wash.
3. Cement pointing (1:2) outside with colour wash.
4. Separation joints of ¾" thick above D.P.C. at an interval of 60'-0".
5. ½" D.P.C. in C.C. 1:2:4 with water-proofing compound, 6" above ground level.

BOUNDARY WALL 9" THICK, 6'-0" HIGH

All dimensions in feet & inches. Not to scale.



NOTES

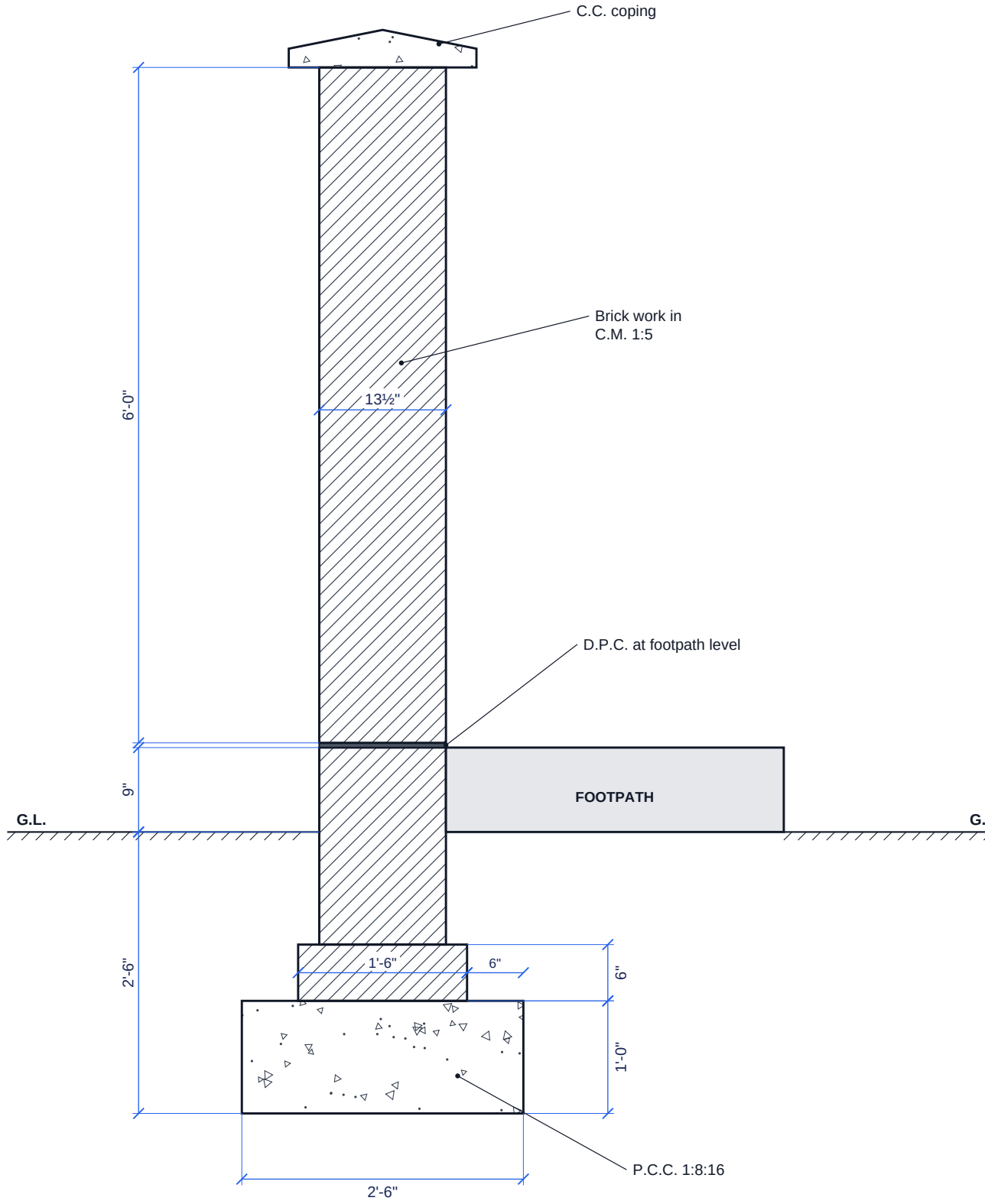
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2. 20 mm thick plaster in C.M. (1:6) inside with white wash.
3. Cement pointing (1:2) outside with colour wash.
4. Separation joints of ¾" thick above D.P.C. at an interval of 60'-0".
5. ½" D.P.C. in C.C. 1:2:4 with water-proofing compound, 6" above ground level.

BOUNDARY WALL 13½" THICK, 6' HIGH (WITH FOOTPATH)

All dimensions in feet & inches. Not to scale.

NOTES

1. Brick work in cement mortar 1:5.
2. D.P.C. at footpath level.
3. Foundation P.C.C. 1:8:16, 1'-0" thick, 2'-6" wide.
4. Plaster / pointing and coping as per site requirement.
5. Provide expansion joints at about 60'-0" c/c.

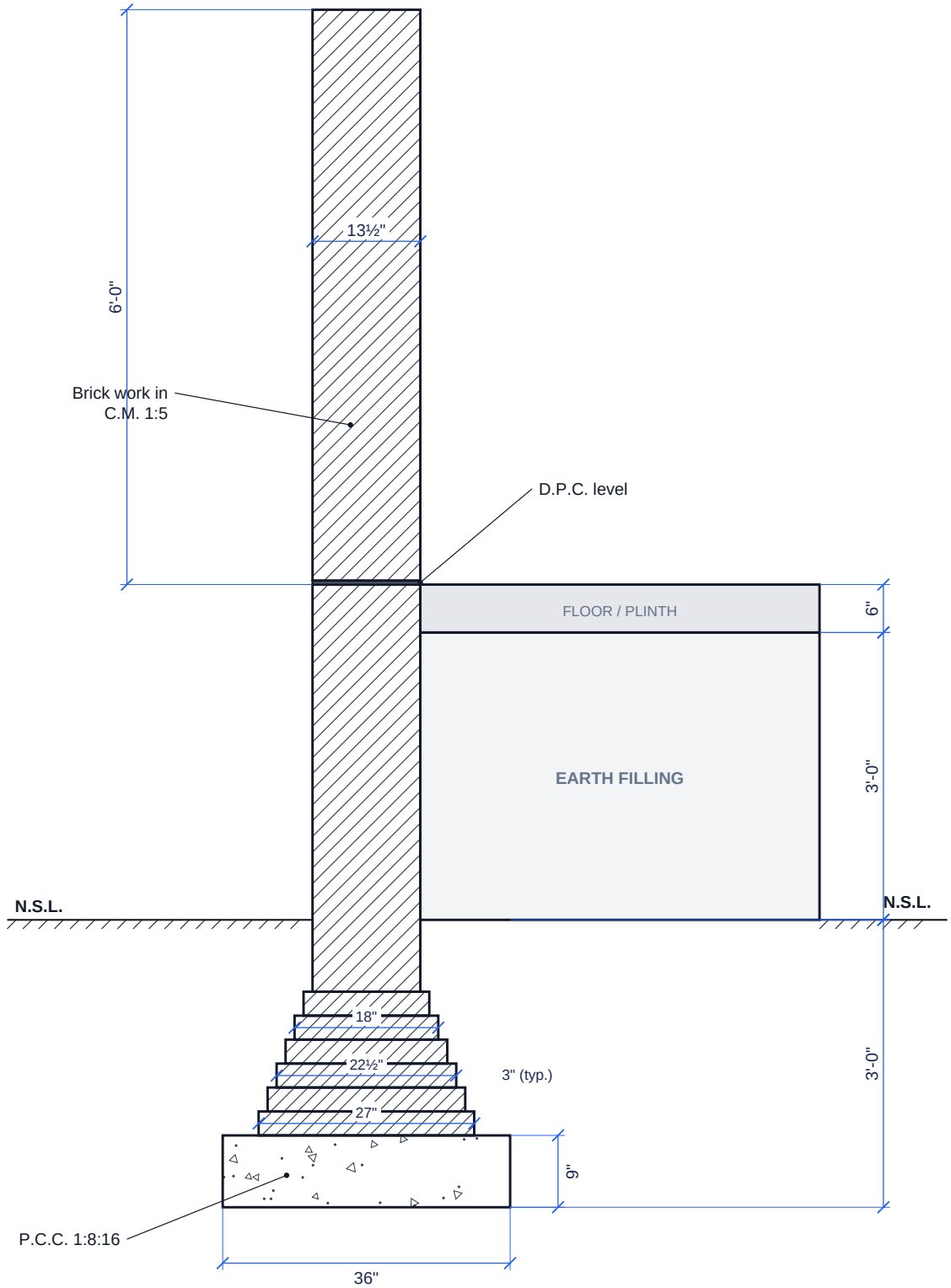


BOUNDARY WALL 13½" THICK, 6' HIGH (TYPICAL SECTION)

All dimensions in feet & inches. Not to scale.

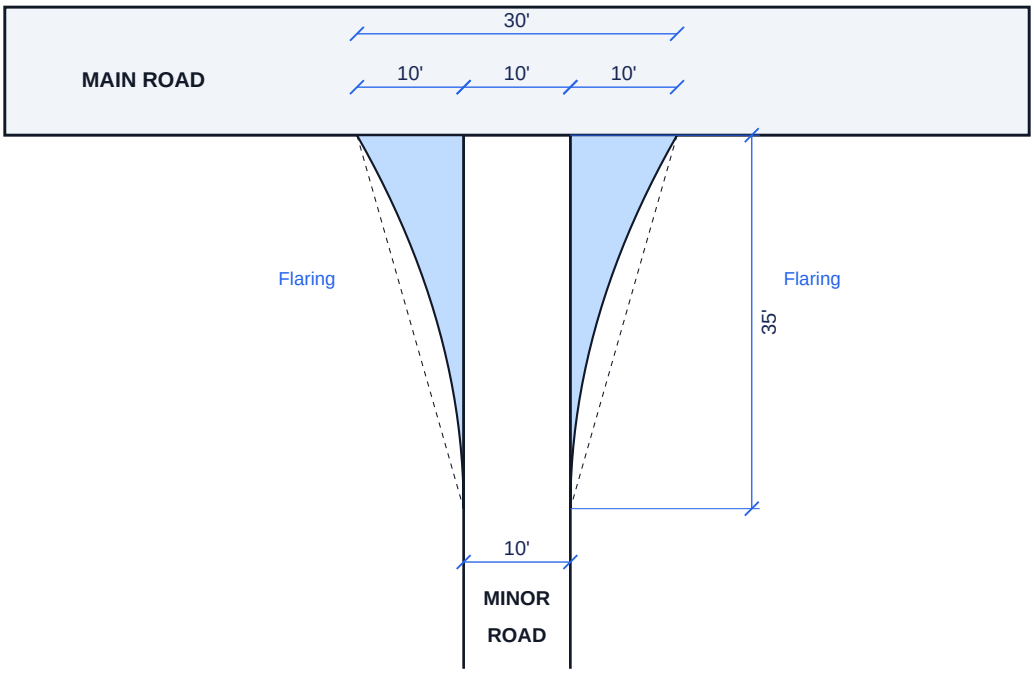
NOTES

1. Brick work in cement mortar 1:5.
2. Stepped footing: six courses of 3" each, widening 2¼" per course (1-1/8" on each side).
3. Foundation P.C.C. 1:8:16, 9" thick, 36" wide.
4. D.P.C. at plinth level (3'-6" above N.S.L. as shown).
5. Wall height 6'-0" above D.P.C. level.

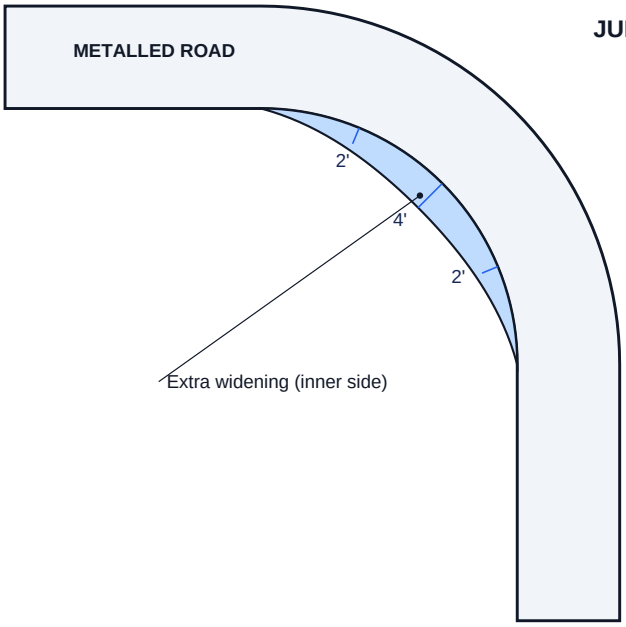


EXTRA FLARING AT JUNCTION & CURVE

All dimensions in feet & inches. Not to scale.



JUNCTION



Widening ordinates 0', 2', 4', 2', 0' over 50' (25' + 25')

CURVE

ANALYSIS OF EXTRA FLARING

Junction (both sides)

2 x [1/2 x 10 x 35 - 2/3 x 37 x 3]
= 202 sft (18.77 sqm)

Curve (one curve)

50 x (0+2+4+2+0) / 5
= 80 sft (7.43 sqm)

2/3 x 37 x 3 = curved (parabolic) part not paved;
37' = flare length along the curve, 3' = rise.

NOTES

1. Junction: flaring of 10' on each side of the minor road, tapering to the road edge over 35'.
2. Curve: extra widening on the inner side, max 4' at the middle, over a 50' length.
3. Quantities are per junction / per curve.
4. Adopt actual widths and lengths as per site and IRC / PMGSY guidelines.

PROPOSED ALIGNMENT OF NEW LINK FROM CHANDIGARH TO ANANDPUR SAHIB
(SECTON KURALI - SISWAN ROAD TO GHANAULI)

N

Scale = 1:50,000

LENGTH OF PROPOSED SECTION (KURALI-SISWAN ROAD TO GHANAULI) = 22.9 KM
LENGTH OF SECTION FROM CHANDIGARH TO KURALI SISWAN ROAD = 11.8 KM
(INCLUDING 0.75 KM IN U.T. AREA)

LEGEND

- PROPOSED ALIGNMENT 1
- PROPOSED ALIGNMENT 2
- MAJOR/LINK ROADS
- ROUTE TRAVELLED BY GPS
- WATER BODIES/RIVER (AS PER SOI)
- CREEK/WATER COURSE (EXISTING)
- RAILWAY TRACK
- FOREST AREA (AS PER SOI)
- PROTECTED FOREST (AS PER PWD)
- BRICK KILN
- BUILT_UP

Scale = 1:20,000

PROPOSED ALIGNMENT
(SECTON KURALI - SISWAN ROAD TO GHANAULI)

PROPOSED ALIGNMENT
(SECTON CHANDIGARH TO KURALI - SISWAN ROAD)

ALIGNMENT

NAHAN
TO NANGAL >>
SAINI MAJRA
BIKON
ROAD TO BADDI
GHANAULI
LAUDI MAJRA
RAWAT MAJRA
ALIPUR
SINGHPURA
BARI MAKAURI
CHHOTI MAKAURI
TELIWALA
BAIRAMPUR
MAINSA TIBBA
GARJEWALI
AHMEDPUR
DUGRI
DANGAULI
CHAK KARAIAN
HILLY AREA
MANSALI
GHIHAR
TARANWALA
FOREST AREA
ROPAR
CHAURANGIANI
SANANA
NAURANGPUR
JHANJIANA
DABURAN
FATEHPUR
BHUGALAN
CHHOTI MAJRI
BARI
BARI MAJRI
KALEWAI
BAGHWALI
BHOLO
KAKAT
KHANPUR
<< TO RANGILPUR
MARIAPUR
PURKHALI
SIASATPUR BHADAL
RAMGARH
RANIPUR
KHERI
SANTOKHGARH
BARDAR KALAN
BAMANWALA
HARIPUR
HARNAMPUR
TARAPUR
CHHOTI BABIANI
BARI BABIAN
PANJALA
BINDRAKH
SULTANPUR
FATEHPUR
MIANPUR
MIRZAPUR
GOCHAR
ABHIPUR
SAINI MAJRA
LABANGARH
KHIZRABAD
KUBAHERI
BURANA
BARSALPUR
THANA GOVINDGARH
DULWAN
SANGATPUR
PHALLANPUR
MARAULI
JHANDE MAJRA
GUNUN MAJRA
MANDHO SANGTIA
MANAKPUR SHARIF
TO BADDI >>
SISWAN
BARI NAGAL
CHHOTI NAGAL
SULTANPUR
KASAULI
NAGAL
BARODI
KURALI
KURALI - SISWAN - BADDI ROAD
SATI
BOOTH GARH
HOSHIARPUR
PAROL
ANDHERI
CHANDPUR
BAZIDPUR
KARTARPUR
TAOJPUR
SHEKHPURA
KANSALA
DHAKORAN KALAN
BARONTIAN
FIROZPUR
PHANTWAN
CHHOTA DHAKORAN
SALAMATPUR
DHODE MAJRA
<< TO MORINDA
NH - 21
SAHALI
BAHALPUR
RANI MAJRA
SHIAMPUR
SAMI MAJRA
MALAKPUR TAPARIAN
BHAGAT MAJRA
KANDAULI
PAINTPUR
BATWARA
MULLANPUR
EXISTING CHANDIGARH KURALI ROAD
PROPOSED ALIGNMENT FOR MOHALI EXPRESSWAY
(LALRU TO BADDI)
PROPOSED ALIGNMENT FOR MOHALI - PHAGWARA EXPRESSWAY
PALHERI
RURKI KHAM
YASEPUR
GHAHAL MAJRA
SANGALAN
MASTGARH
DHANAURAN
SARANGPUR
KHUDA LAHORA
KHUDA JASSU
TIRA
MANANA
TOGAN
DHANAS
JHAMPUR
TARAULI
BAHLOLPUR
DADU MAJRA
JN. 16
PEC
PGI
PANJAB UNIVERSITY
PUNJAB / CHANDIGARH BOUNDARY
KHARAR
CHANDIGARH
JN. 30
TO ZIRAKPUR / AMBALA >>
NH - 21
NANGAL - UNA RAILWAY LINK

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MP-01
Source: Water Supply & Sanitation Department, Punjab. Data as on 31.03.2008 - older reference; check current WSS / CGWB data. BIS limits shown are from IS:10500-1991 (now IS:10500-2012).
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