Chain link detail


CHAIN LINK FENCE


| CHAIN LINK FENCE |  |  |  |
| :---: | :---: | :---: | :---: |
| POST SIZE AND WEIGHT TABLE |  |  |  |
| DESCRIPTION | FENCE | ROUND PIPE |  |
|  |  | Yield strength 172 Mpo (min.) |  |
|  |  | dio. mm | kg/m (min.) |
| Brace | 1500 mm or less | 33.40 | 1.10 |
| \& top rail | 1800 mm | 33.40 | 1.10 |
| Line post | 1500 mm or less | 42.16 | 1.65 |
|  | 1800 mm | 48.26 | 1.89 |
| End, corner | 1500 mm or less | 35.56 | 1.89 |
| \& pull post | 1800 mm | 60.32 | 2.38 |

## NOTE:

1. Dimensions not lobeled are in millimeters.
2. Metal post and rails shall conform to
3. Set all posts in concrete. Set corner, The minimum depth of concrete for line The minimum depth of concrete for line
posts is 600 mm . Increase depth 75 mm for each additional 300 mm of fence height over 1200 mm .
4. Adjust the post top elevations to provide a smooth visual fence profile. Install corner posts ot horizontal breaks in the
fence of $15^{\circ}$ or more
5. Prowis fence fobrio
6. Provide fence fobric with o 50 mm mesh, 1200 mm or less and 3.76 mm wise of fabric heights greater thon 1200 mm . Provide o closs D cooting when zinc cooted steel fence fobric is provide
7. See Detail wM6/9-21 for hordwore and

wire selvage detall


TRUSS ROD TIGHTENER DETAIL

chain link fence tie detail
U.S. DEPAATMENT OF TRASSPORTATION
FEDERAL MICHWAY ADMINSTRATION

SEEDRAL HIIHWAY AOMINITTRATION
METRIC DETAIL
RESIDENTIAL
CHAIN LINK FENCE

| HARDWARE ITEM DESCRIPTION | STANDARD REQUIREMENTS |
| :--- | :--- | :--- |
| Broce rail and top roil | See table on Detail wh6lg-20 |

NOTE:
Dimensions not labeled are in milumeters.
2. Reinforce the gote frome corners with a malleable iron or pressed steel fitting designed for the purpose or shop weld the
corners. Grind smooth all welds and paint with on approved zinc rich point. Furnish each gote with the necessary hinges, latch and drop rod locking device designed for he type of gote posts ond gote used on
the project, Provide positive type lotching devices with provisions for pad locking at Ill gotes. Provide keepers to retain the gate in the open position.
3. Approved alternote gote frames constructed used.
4. The design of the chain link hardware may vary from the details shown, however, all hardware and materials used in a single
5. Furnlsh hardware in the metric sizes shown. metric sizes ore not available.


NARROW SINGLE LEAF GATE

FEDERAL HIGHMAY ADMNISTTATTON
METRIC DETAIL
RESIDENTIAL CHAIN LINK HARDWARE AND GATE


## NOTE:

Dimensions not labeled are in millimeters
2. Metal post and roils shall conform to ASTM F 669.
3. Use Type I requirements from the chain link fence tobe unless otherwiss specified in the specia contract requirements.
4. Set all posts in concrete. Set corner, end, pull posts to the dimensions shown. The minimum
depth of concrete for line posts is 600 mm depth of concrete for ine posts is 600 mm .
Increase depth 75 mm for each odditional 300
mm of fence height over 1200 mm .
5. Install braces on all terminals on fences without a top roil. No broces ore required on fobric 1800 m in height or less where o top rail is specified. Instoll broces where fobric is over 1800 mm in
height. Where o top rail is used, attoch the bro ot the halfway point of the terminal post obove
grode and, where the rail is omitted, at the twograde ond, where the rail is omitted, of the twounless so specified in the special contract requirements.
6. Adjust the post top elevations to provide a smooth visual fence profile. Install corner posts解 15 or more.
7. If alternate steel posts are used, provide fastening bonds, caps, brace roil, rail ends, and truss rod attaching hardware compal
8. Provide fence fobric with o 50 mm mesh, Use 3.05 mm wire in fabric heights of 1200 mm or less and 3.76 mm wire in lobric heights greater zinc-cooted steel fence fabric is provided. Knuckle both selvages on fabric less than 1800 mm high. For fobic 1800 mm high or higher
. See Detail wmb19-23 for hardwore and gate requirements.


WIRE SELVAGE DETAIL


Chain link fence tie detail


TRUSS ROD TIGHTNER DETAIL


END OR CORNER POST
$2.08 \mathrm{~kg} / \mathrm{m} \mathrm{incl}$.
.06 kg golvonized

$\xrightarrow{32}$
TOP \& ALTERNATE STEEL POST
RAIL
\& BRACE SECTIONS


LINE POST


 METRIC DETAIL

CHAIN LINK FENCE

| HARDWARE ITEM DESCRIPTION | STANDARD REQUIREMENTS |
| :--- | :--- | :--- |
| Brace roil ond top rail | See table on Detail wM6I9-22 |



WIDE SIngle leaf gate

## CHAIN LINK GATE

POST AND FRAME SIZE AND WEIGHT TABLE

| gate leaf widths |  | ROUND PIPE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Steel |  | Alum | inum | Steel |  |
|  |  | Minimum yield strength Mpa. |  |  |  |  |  |
|  |  | 172 |  | 172 |  | 345 |  |
|  |  | Size and mas |  |  |  |  |  |
|  |  | $\begin{aligned} & \text { dio. } \\ & m m \end{aligned}$ | $\left\lvert\, \begin{array}{\|c\|c\|} \hline \mathrm{kg} / \mathrm{m} . \\ \text { (min. } \end{array}\right.$ | dio. | $\begin{array}{\|l\|l} \mathrm{kg} / \mathrm{m} \\ \text { (min. } \end{array}$ | $\begin{aligned} & \text { dia. } \\ & m m \end{aligned}$ | $\left\|\begin{array}{\|c\|c\|} \mathrm{kg} / \mathrm{m} \\ \text { (min. } \end{array}\right\|$ |
| 1800 mm or less | Gote | 7.30 | 6.91 | 7.30 | 2.89 | 7.30 | 6.91 |
| Over 1800 to 3600 mm | post | 10.16 | 12.87 | 10.16 | 4.45 | 10.16 | 9.76 |
| Over 3600 to 5400 mm | size | 16.83 | 26.82 | --- | --- |  |  |
| Outside frame member | frame | 4.83 | 3.39 | 4.83 | 1.35 | 4.83 | 3.3 |
| Interior bracing member | size | 4.22 | 2.72 | 4.83 | 1.3 | 4.22 |  |

NOTE:
All dimensions on this drawing are in millimeters.
2. Reinforce the gate frome corners with a malleable iron or pressed steel fitting corners. Grind smooth all welds and point with on approved zinc rich paint. Furnish each gote with the necessory hinges, lotch, and drop rod locking device designed for
the type of gate posts ond gote used on the project, Provide positive type latching devices with provisions for pod locking of
all tates. Provide keepers to retain the all gotes. Provide keepers
gote in the open position.
3. Approved alternate gote frames constructed
of steel sections, other than pipe, may be used
4. The design of the chain link hordwore all hardware and mails shown, however, installations shall be uniform and compatible.
5. Furnlsh hardware in the metric sizes shown. Equivalent imperial sizes may be used when


NARROW SINGLE LEAF GATE





##  <br> Rock or concrete anchor

TYPICAL SAG SECTION - BARBED WIRE FENCES

block. Where verttical alignmer
changes over $20^{\circ}$ use corner
changes over $20^{\circ}$ use corner
bracing in addition to concrete brace
TYPICAL SAG SECTION FOR WOVEN WIRE, MESH OR COMBINATION FENCES


DOUBLE BRACE PANELS

| FENCE BRACE TABLE |  |  |  |
| :---: | :---: | :---: | :---: |
| FENCE TYPE | RUN | $\begin{gathered} \text { WOOD } \\ \text { PANELS } \\ \text { REQUIRED } \end{gathered}$ | METAL BRACES |
| $\begin{aligned} & 1,5 y_{1} \\ & 6 \& 11 \end{aligned}$ | < 66' | NONE | NONE |
|  | 66' - 660' | SINGLE | SINGLE |
|  | 660' - 990' | DOUBLE | NOT ALLOWED |
| 8 | $\leq 400^{\prime}$ | DOUBLE | NOT ALLOWED |
| $\begin{array}{r} 2,3, \\ 7 \& 33 \end{array}$ | < $33{ }^{\prime}$ | NONE | NONE |
|  | 33' - 330' | SINGLE | SINGLE |
|  | 330' - $660^{\prime}$ | DOUBLE | NOT ALLOWED |

NOTE:

1. When a fence line approaches a ditch, gully, or depression, place the last post on level ground close enough to the edge
of the drop-off that the wire may be strung to a post in the depression without touching the ground.
2. When the depth of a depression on a Type 1,5, or 11 fence exceeds the total vertical wire spacing over a maximum horizontal run of 2 spaces, construct an extra fence through
the depression. Include extra line braces and a deadman in this application as shown.
3. When a Type 1 gate is used in a special application as shown, include extra line braces and the attached under timber, wire,
and wire stays. Wrap the horizontal wires on the under timber around the brace post (not stapled), then twice around the wire itself.
4. When approved by the CO, the special applications for barbed wire fences may also be used for Types 2, 3, 7, and 33 woven may be used through the special areas, however the wires may be used through the special areas, however the wire
must match the woven wire spacing as nearly as possible. Do not attach the under timber directly to a Type 2 gate.
5. When wood braces are used and the fence corner angle exceeds $30^{\circ}$ in the exterior angle of the fence, use double
panels on the corner brace. Install double panels for line panels on the corner brace. Install double panels for line
6. Where a fence ties into a bridge parpaet or railing, do not allow the top of fence to project above the top of the parapet or railing.

Special sag section, extra
line fence with line braces
and deadman (See Note 2)
Total vertical wire
spacing dimension

Depth of depressio
0
Set an extra line post, appoximately centered, when space between
deadman and brace post is deadman and brace post is greater
than normal fence type spacing

Extra line post with w
Only one brace required
$1 \begin{gathered}\text { Typical } \\ \text { sag post }\end{gathered}$ grade exceeds $20^{\circ}$

Place intermediate line post, centered
between brace post and line post when betwe in grace
space

Resume normal spacing

-






TYPICAL SAG SECTION - BARBED WIRE FENCES


TYPICAL SAG SECTION FOR WOVEN WIRE, MESH OR COMBINATION FENCES

## NOTE:

1. When a fence line approaches a ditch, gully, or depression, place the last post on level ground close enough to the edge
of the drop-off that the wire may be strung to a post in the depression without touching the ground.
2. When the depth of a depression on a Type 1, 5, or 11 fence exceeds the total vertical wire spacing over a maximum horizontal run of 2 spaces, construct an extra fence through the depression. Include extra line braces and a deadman in this application as shown
3. When a Type 1 gate is used in a special application as shown, include extra line braces and the attached under timber, wire, around the brace post (not stapled), then twice around the wire itself.
4. When approved by the CO, the special applications for barbed wire fences may also be used for Types $2,3,7$, and 33 woven wire fence. Use a Type 2 gate with these fences. Barbed wire
may be used through the special areas, however the wires may be used through the special areas, however the wires
must match the woven wire spacing as nearly as possible. Do not attach the under timber directly to a Type 2 gate.
5. When wood braces are used and the fence corner angle exceeds $30^{\circ}$ in the exterior angle of the fence, use double panels on the corner brace. Install double panels for line and terminal braces according to the fence brace table
6. Where a fence ties into a bridge parpaet or railing, do not allow the top of fence to project above the top of the parapet or railing.
7. Dimensions without units are millimeters.

DOUBLE BRACE PANELS


Special sag section, extra line fence with line braces
and deadman (See Note 2)

Attached under
Attached under
timber (See Note


Total vertical wire



TYPE I GATE

type 2 gate

NOTE:

1. Dimensions not labeled are in millimeters.
2. Match Type I gates with the adjacent fence.
3. Hang gates on standard metal or wood brace osid corresponet line fenc. posts

Construct end post for Type I gote with o
section of metal fence post or a round woul section of metol fence post or o round wood
post 65 mm to 75 mm diameter. Provide 0 600 mm length of hardwood tool hondle for the pry stick. Use 3.76 mm wire for 100 p wire
and pry stick wire or a suitable chain ond and pry stick wire or a suitable chain and
adjust for length so thot the gote will be adjust for length so that the gote will be
neat ond tout when closed. Ploce two wood
stays, stoys, equally spaced, on each gate. Provide
50 mm minimum diameter or 40 mm square 50 mm minimum diameter or 40 mm square
stays. Staple or tie wires to the stays and stoys. Stap
end posts.
5. Form Type 2 gote fromes with 33.40 mm OD cold rolled or drown golvonized steel tubing
with a woll thickness of 2.41 mm or with 25 mm golvanized stondard steel pipe. Equip each gate with one standard adjustable diagonal
truss rod from corner to corner. Provide truss rod from corner to corner. Provide
galvanized mallable iron or steel hinges and two way self closing latch.
6. Form metal walk gate frames with 26.67 mm OD cold rolled or drown galvanized steeltubing
with a wall thickness of 2.41 mm or with 19.05 with a wall thickness of 2.41 mm or with 19.05
mm galvanized standard stel mm galvanized stondard steel pipe. Construct metal walk gotes similar to Ty
omit vertical brace and trus.
7. Approved alternate gates may be used.
8. Where a single opening requires two gotes, provide on approved drop bar, latch, chain and snap between the gates.
9. $51 \times 51 \times 6.4 \mathrm{~mm}$ angle or 31.75 mm standard steel pipe brace.
10. $64 \times 64 \times 6.4 \mathrm{~mm}$ angle or 64 mm standard steel pipe post.




DOUBLE END PANEL

## FENCE PANEL TYPES

Tie 3 strands of 9 gage wire
around all wires and around
the junction of the metal posts

NOTE:

1. Attach barbed wires to tie-off posts by wrapping around the post at least two times, then wrapping the wires around itself five times.
2. To attach woven wire to end post, remove two or three vertical stay wires from the end of the fence. Place the first complete vertical stay wires from the end of the fence. Place the first complete vertical stay
wire against post. Start at the middle of the horizontal line wires, wrapping around the end post at least two times and then wrapping around itself five times.
3. A deadman may be a precast concrete block, a cast-in-place block or a rock or other approved object weighing at least 150 pounds.
Bury the deadman in the ground with at least 24 " cover. Attach Bury the deadman in the ground with at least 24" cover. Attach
the deadman to the fence with 3 strands of 9 gage wire or 6 strands the deadman to the fence with 3 strands of 9 gage wire or 6 strand
of 12.5 gage wire. The Alternate Deadman shown on this sheet may be used when approved by the CO.
4. Offset "Interstate" fence 1 foot inside right-of-way. Increase length of metal "Interstate" posts and braces to $7^{-1} 8$ ". Increase embedment depth to $3^{\prime}-2$ ". Increase length of metal "Interstate" line posts to $6^{\prime}-6$ ". Increase embedment depth to 2 feet.

ALTERNATE DEADMAN
See Note 3 for normal deadman


FENCE LAYOUT AT
STOCKPASS

$\qquad$

## FENCE LAYOUT AT CHANGE

IN R/W WIDTH


FENCE LAYOUT AT CROSS FENCE CONNECTION

fence layout on sharp vertical curves


fence connection to cattle guard

USS. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMIIITTRAATON
WESTERN FEDERAL LANDS HIGHWAY DIVISION
USS. CUSTOMARY DETAIL
MONTANA FENCE
Sheet 2 of 2



FENCE WITH STEEL POSTS


## NOTE:

1. Place all fence wire on pasture side of post, except on curves place the wire on the outside of the curve. In areas subject to high winds
and moving debris wires may be placed on windward side of posts (except on curves).
2. Measure post spacing parallel to ground
3. In each 150 m run of wood post fence, place one metal post in place
of a wood line post for lightning protection.
4. Use wood panels on all metal fences instead of the steel panels unless otherwise specified.
5. Attach all barbed wires to posts. Attach bottom, top, center, and alternate wires of woven wire to line posts. Attach all wires of woven wire to corner posts or post used to tie-off wire. Attach wires using
staples for wood posts and using ties for steel posts.
6. Use wire stays on all fences unless wood stays are specified. When wood stays are specified use either 50 mm round, a rough dimension
$50 \times 50$, or a $37.5 \times 87.5$ (nominal $50 \times 100$ ). Provide stay of sufficient length to be placed on the ground with the top of stay extending 50 mm above the top wire. Attach each wire to the wood stays usin $44 \mathrm{~mm} \times 9$ gage staples. Wood stays do not need to be treated.
7. Dimensions without units are millimeters.

| POST DIMENSIONS |  |  |  |
| :---: | :---: | :---: | :---: |
| MEMBER | WOOD |  | STEEL |
|  | ROUND | SQUARE |  |
| Line post | 100 | $100 \times 100$ | $2 \mathrm{~kg} / \mathrm{m}$ |
| Brace | 100 | $100 \times 100$ | $51 \times 51 \times 6.4$ |
| Other posts | 125 | $125 \times 125$ | $64 \times 64 \times 6.4$ |



NOTE:

1. Attach barbed wires to tie-off posts by wrapping around the post at mes, then wrapping the wires around itself five times.
2. To attach woven wire to end post, remove two or three vertical stay
wires from the end of the fence. Place the first complete vertical stay Wires from the end of the fence. Place the first complete vertical sta wrapping around the end post at least two times and then wrapping around itself five times.
3. A deadman may be a precast concrete block, a cast-in-place block or a rock or other approved object weighing at least 70 kg . Bury the deadman in the ground with at least 600 mm cover. Attach the deadman to the fence with 3 strands of 9 gage wire or 6 strands of 12.5 gage wire. The Alternate Deadm.
may be used when approved by the co.
4. Offset "Interstate" fence 300 mm inside right-of-way. Increase length of metal "Interstate" posts and braces to 2.3 m . Increase embedment depth to 950 mm . Increase length of metal "Interstate" line posts to
2 m . Increase embedment depth to 650 mm .
5. Dimensions without units are millimeters.

DOUBLE END PANEL

## FENCE PANEL TYPES

Tie 3 strands of 9 gage wire
around all wires and around
around all wires and around
the junction of the metal posts


ALTERNATE DEADMAN
ALTERNATE DEADMAN


FENCE LAYOUT AT STOCKPASS


FENCE LAYOUT AT CHANGE IN R/W WIDTH


FENCE LAYOUT AT CROSS FENCE CONNECTION



FENCE CONNECTION TO CATTLE GUARD
U.S. DEPARTMENT OF TRANSPRTRATION
FEDERAL HIGHWAY ADMINISTRATION FEDERAL HIGHAYY ARMNTISTRTRATITON
WESTERN FEDERAL LANDS HIGHWAY DIVISION

## MONTANA FENCE

Sheet 2 of 2


WOOD ENTRANCE GATE (TYPE G-1)


WIRE ENTRANCE GATE (TYPE G-2)


METAL ENTRANCE GATE (TYPE G-3)


NOTE:

1. Adjacent wood or metal post fence panels shown for illustrative purposes only. Match adjoining fence post type. Place either the single panel shown or a double panel at each fence end adjacent
2. Use 10d nail and clinch for wood entrance gate (Type G-1) construction.
3. Match wire scheme on wire entrance gate (Type G-2) with that of adjacent fence unless otherwise indicated.
4. Furnish an approved commerical product for metal entrance gate (Type G-3). Galvanize all metal parts.
5. Provide a centered steel upight brace for Interstate Gates with
openings of less than 14 feet two uprig steal braces at third points for gates for openings of 14 feet or greater.
6. Where a single opening requires two metal entrance gates, provide an approved drop bar and fastener between the gates
7. Alternate gates may be used when approved by the CO.


WOOD ENTRANCE GATE (TYPE G-1)


WIRE ENTRANCE GATE (TYPE G-2)


METAL ENTRANCE GATE (TYPE G-3)


## NOTE:

1. Adjacent wood or metal post fence panels shown for illustrative purposes only. Match adjoining fence post type. Place either the
single panel shown or a double panel at each fence end adjacent to gate. See Detail WM619-60 for more information.
2. Use 10d nail and clinch for wood entrance gate (Type G-1)
construction.
3. Match wire scheme on wire entrance gate (Type G-2) with that of adjacent fence unless otherwise indicated.
4. Furnish an approved commerical product for metal entrance gate
5. Provide a centered steel upright brace for Interstate Gates with openings of less than 4.3 meters, two upright steel braces at
6. Where a single opening requires two metal entrance gates, provide an approved drop bar and fastener between the gates,
7. Alternate gates may be used when approved by the CO.
8. Furnish hardware in the metric sizes shown. Equivalent us Customary sizes may be used when metric sizes are unavailable.
9. Dimensions without units are millimeters.

| APPROXIMATE FRAME WEIGHTS <br> FOR INTERSTATE GATE |  |
| :---: | :---: |
| WIDTH OF OPENING | APPROXIMATE WEIGHT |
| 2.4 m | 22 kg |
| 3.0 m | 25 kg |
| 3.7 m | 28 kg |
| 4.3 m | 33 kg |
| 4.9 m | 36 kg |

INTERSTATE GATE




$$
\begin{array}{llll}
\text { End bor } 1350 \text { mm length } \\
\text { steel line post material }
\end{array} \quad \text { TYPE 1 TYPE 1-5W } \quad \text { TYPE 2 } \begin{gathered}
\text { woven wire design } \\
\text { no. } 832-6-121 / 2 \\
\text { AASHTO M 279 }
\end{gathered}
$$



HINGE


| GATE COMPONENTS |  |  |  |  |  | GATE POSTS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| gate opening IN METERS |  | tubular frame |  | BRACES |  | WOOD |  |  | $\frac{\text { GALVANIZED STEEL }}{\text { TUBULAR }}$ |  |
|  |  | ROUND | SQuare |  |  |  |  |
| SINGLE | DOUBLE |  |  | METER | kg/m | NUMBER | DIA | DIA. OF | MALL END |  | DIAMETER | $\mathrm{kg} / \mathrm{m}$ |
|  | GATE | omina |  |  |  | min.-mox. | min.-ovg. |  |  |  |
| UP thru 1.8 | UP thru 3.1 | 25.40 | 2.50 | none | --- | 125-175 | 150 | $150 \times 150$ | 6.40 | 8.62 |
| 2.1 thru 3.4 | 4.0 thru 6.7 | 31.75 | 3.38 | 1 | 25.40 | 125-175 | 150 | $150 \times 150$ | 88.90 | 13.56 |
| 3.1 thru 4.9 | 7.0 thru 9.8 | 38.10 | 4.05 | 2 | 31.75 | 175-225 | 200 | $200 \times 200$ | 152.40 | 28.23 |
| 5.2 thru 6.0 | 10.0 thru 12.0 | 50.80 | 5.43 | 2 | 31.75 | 225-275 | 250 | $250 \times 250$ | 152.40 | 28.23 |

$\frac{75 \mathrm{~mm}}{(\text { min. })}$ SINGLE METAL FRAME GATE
WOOD GATE BRACE




TyPICAL SAG SECTION - TYPE 1 \& 2 FENCES


FENCES

| POST DIMENSIONS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| member | WOOD |  | STEEL |  |  |
|  | ROUND | Square | SHAPE | $\begin{gathered} \mathrm{kg} / \mathrm{m} \\ \text { (min.) } \\ \text { nominal } \end{gathered}$ | SIZE nominal |
|  | Dia. of small end (min.) | $\underset{\substack{\text { Sominal } \\ \text { SILE }}}{ }$ |  |  |  |
| Line post | 75 | $75 \times 75$ | Tee, channel or U-bar | 1.98 | U.S. Comm. Stondord |
| Brace | 150 | 150×150 | Round pipe | 3.38 | approx. 40 mm OD |
|  |  |  | Angle | 3.63 | $51 \times 51 \times 6.4 \mathrm{~mm}$ |
| Other posts | 150 | $150 \times 150$ | Round pipe | 5.43 | 60.3 mm OD |
|  |  |  | Angle | 6.10 | $64 \times 64 \times 6.4 \mathrm{~mm}$ |

NOTE.
. Dimensions not labeled are in millimeters.
2. Furnish either zinc coated (galvanized) or aluminum cooted steel borbed wire.
Fobricate zinc cooted barbed wire fro twricate zinc cooted borbed wire from 0 Class 3 zinc coating and 2 point or 4
point borbs of 2.03 mm zinc cooted wire.
Fabricate Fobricate aluminum coated barbed wire
from two stronds of 2.51 mm aluminum coated steel wire with 4 mm oluminum 2.03 mm aluminum coated or aluminum alloy wire.
3. Furnish either zinc cooted (galvonized) or aluminum coated steel wire fence fobric. If zinc cooted fobric is furnished, use Grade 60 fobric with a Class 3
coating.
4. Furnish 3.05 mm tie wire or wire clomps fm by 40 ra m metal posts and 3.76 wood posts. Galvanize wire stoys, tis wire, wire loops, and wire clamps with a Closs I zinc cooting occording to
5. Furnish either painted or galvanized steel fence posts for tee, channel or
4 bar shapes. Furnish galvanized steal round pipe or steel angle for posts steel and braces. Fit round pipe posts with snug-fitting galvanized metal caps. Fabricate steel line posts and angles
from Type A steel occording to AASHTO from Type A steel occording to AASHTO
$M$ 281. Fabricate steel pipe posts and braces occording to AASHTO M 160.
6. Furnish Douglos fir, Western red cedor, Hemlock or Lorch for fence posts, broce
rails, and wood stoys. Treat the posts roils, ond wood stoys. Treot the posts chlorophenol, ACZA, or CCA, Type Chlorophenal, A.


DETAIL A
u.s. Department of transportation


METRIC DETAIL
WASHINGTON FENCE

| detal Approve for use 3 /1996 |  |
| :---: | :---: |

2. Manufacture gates of galvanized steel pipe not less than 25 mm nominal diameter (nominal mass 0.76 kg per linear meter) for frame and vertica braces. For each gate, provide two
upright broces of the same material a the frome, spoced ot some moints in os gote. Ploce steel wire fence fobric
conforming to desion no. $1047-6-121 / 2$ conforming to design no. $1047-6-121 / 2$ in
AASHTO M 279 on the foce of the gate. Equip each gate with adjustoble 9.5 mm diometer diagonol truss rods from corner to corner. Provide hinges and 2 -way self
closing lotch of an approved rust proof mallable iron or steel.
3. Where a single opening requires two gates, provide on approved drop bor and fostener between the gotes. Where two metal gates ore installed in a single opening both gotes
4. Approved alternate gates may be used.

METAL GATE BRACE
single metal entrance gate


| detal appovele for use 3/996 |  |
| :---: | :---: |
|  | WM619-8I |

