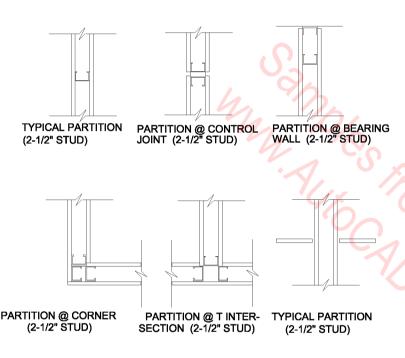
2-1/2" METAL FRAME PARTITION

2-1/2" METAL FRAME PARTITION

SAMPLE NOTES



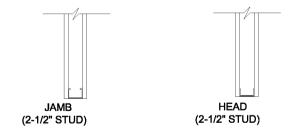
METAL STUDS (SIZE & SPACING)
METAL RUNNER/ANCHORS
METAL TRACK/HEADER
ADJACENT CEILING OR SLAB
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES/
WATERPROOFING
HOOKS/TRACKS
WALL MOUNTED FIXTURES
WALL MOUNTED FIXTURES
WALL ANCHORS/
MOUNTING BRACKETS
RAILINGS/WALL GUARDS
THRU-WALL SLEEVE
SEALANT/SOUND BARRIER/
LEAD LINING
JOINTS (CONTROL OR EXPANSION)
ADJACENT FINISHES
GYPSUM WALL BOARD
WATER-RESISTANT GYP.BD.
CORNER BEAD
CONTROL JOINT
SOUND ATTENUATION BLANKET

Jalls nox

RIGID INSULATION

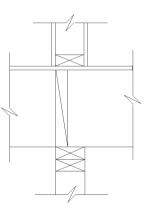
NOTATION CHECKLIST.

PLYWOOD
METAL WALL ANGLE @ CLG.
FURRING CHANNEL
METAL RUNNER
SUSP. METAL FURRING CHANNEL
METAL STUDS @ 24" O.C.
METAL STUDS @ 16" O.C.
STAGGER STUDS
BRACING TO STRUCTURE
STUD TO CLG. @ 48" O.C.
CHASE WALL
FLOOR TRACK
SEALANT EACH SIDE
RESILIENT BASE, 4"
CONT. SPONGE RUBBER GASKET, 1/2" X 3" (@ dg.)
SUSPENDED CEILING
FASTEN METAL STUDS TO CLG. 'T'

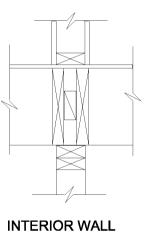


2X4 INTERIOR WALL FRAMING

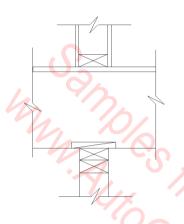
2X4 INTERIOR WALL FRAMING



INTERIOR WALL FRAMING (2x4)



FRAMING (2x4)

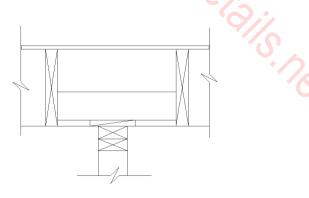


INTERIOR WALL FRAMING (2x4)

NOTATION CHECKLIST, SAMPLE NOTES

2 X STUDS @ "O.C. 2 X BOTTOM PLATE SUBFLOOR 2 X FLOOR JOISTS @ "O.C. 2 X SOLID BLOCKING 2 X DOUBLE TOP PLATE

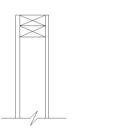
INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
SOUND INSULATION
PLYWOOD SHEATHING
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS



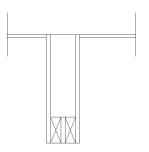
INTERIOR WALL FRAMING (2x4)

2X4 WOOD FRAME WALLS

WALL @ FLOOR (2x4)



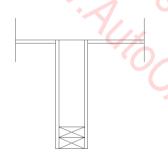
JAMB OR SILL (2x4)



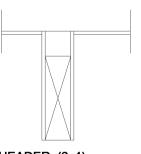
HEADER (2x4)



WALL @ CLG. (2x4)



HEAD (2x4)



HEADER (2x4)

2X4 WOOD FRAME WALLS

NOTATION CHECKLIST, SAMPLE NOTES

CEILING LINE @ 2 X STUDS @ "O.C. HEADER TRIM FOR CASED OPENING 2 X BOTTOM PLATE 2 X TOP PLATE BASE (FINISH BASE SIZE/MATERIAL) FINISH FLOOR

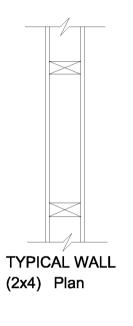
INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
MASONRY VENEER
RAILINGS/WALL GUARDS
HOOKS/TRACKS
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES
PASS-THRU
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS

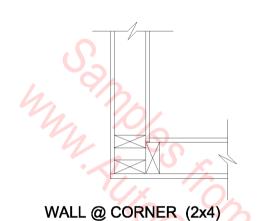
EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
FLASHING/WATER/PROOFING
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES

SAMPLE NOTES:
BATT INSULATION
INSULATION BOARD
WOOD SIDING
15# FELT
1/2" FOIL FACE INSULATION
AIR SPACE
1/2" X 6" BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2 X JOISTS @ "O.C.
2 X RAFTERS @ "O.C.
2 X RAFTERS @ "O.C.
BLOCKING
FLASHING
GYPSUM BOARD CEILING
HARDWOOD STOPS
HARDWOOD JAMB
2 X 4 CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1 X WOOD STOP

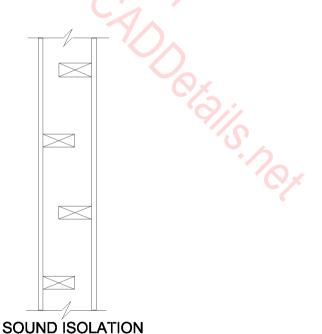
2x4 WOOD FRAMING

2X4 WOOD FRAMING





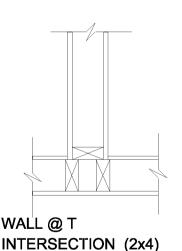
WALL (2x4)



NOTATION CHECKLIST, SAMPLE NOTES

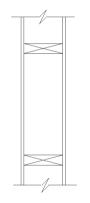
CEILING LINE @ 2 X STUDS @ "O.C. HEADER TRIM FOR CASED OPENING 2 X BOTTOM PLATE 2 X TOP PLATE BASE (FINISH BASE SIZE/MATERIAL) FINISH FLOOR

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
MASONRY VENEER
RAILINGS/WALL GUARDS
HOOKS/TRACKS
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES
PASS-THRU
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS

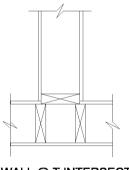


2X6 WOOD FRAME WALLS

2X6 WOOD FRAME WALLS



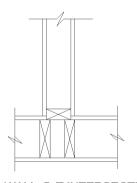
TYPICAL WALL (2x6) Plan



WALL @ T INTERSECTION (2x6)



WALL @ CORNER (2x6)



WALL @ T INTERSECTION (2X4 & 2x6)

NOTATION CHECKLIST, SAMPLE NOTES

CEILING LINE @ 2 X STUDS @ "O.C. HEADER TRIM FOR CASED OPENING 2 X BOTTOM PLATE 2 X TOP PLATE BASE (FINISH BASE SIZE/MATERIAL) FINISH FLOOR

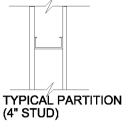
INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
MASONRY VENEER
RAILINGS/WALL GUARDS
HOOKS/TRACKS
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES
PASS-THRU
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS

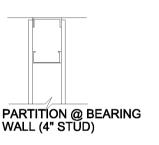
EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
FLASHING/WATER/PROOFING
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES

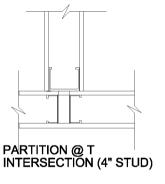
SAMPLE NOTES:
BATT INSULATION
INSULATION BOARD
WOOD SIDING
15# FELT
1/2" FOIL FACE INSULATION
AIR SPACE
1/2 X 6 BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2 X JOISTS @ "O.C.
2 X RAFTERS @ "O.C.
2 X RAFTERS @ "O.C.
BLOCKING
FLASHING
GYPSUM BOARD CEILING
HARDWOOD STOPS
HARDWOOD JAMB
2 X 4 CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1 X WOOD STOP

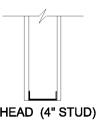
4" METAL FRAME PARTITIONS

4" METAL FRAME PARTITIONS







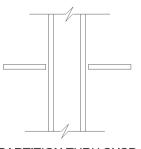




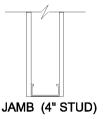
PARTITION @ CONTROL JOINT (4" STUD)



PARTITION @ CORNER (4" STUD)



PARTITION THRU SUSP. CEILING (4" STUD)



NOTATION CHECKLIST, SAMPLE NOTES

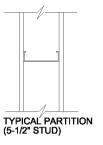
METAL STUDS (SIZE & SPACING)
METAL RUNNER/ANCHORS
METAL TRACK/HEADER
ADJACENT CEILING OR SLAB
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES/
WATERPROOFING
HOOKS/TRACKS
WALL MOUNTED FIXTURES
WALL ANCHORS/MOUNTING
BRACKETS
RAILINGS/WALL GUARDS
THRU-WALL SLEEVE
SEALANT/SOUND BARRIER/
LEAD LINING
JOINTS (CONTROL OR
EXPANSION)
ADJACENT FINISHES
GYPSUM WALL BOARD
WATER-RESISTANT GYP.BD.
CORNER BEAD
CONTROL JOINT

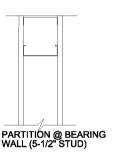
Dolais, nox

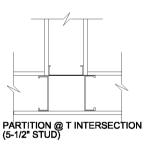
SOUND ATTENUATION BLANKET RIGID INSULATION PLYWOOD METAL WALL ANGLE @ CLG. FURRING CHANNEL METAL RUNNER SUSP. METAL FURRING CHANNEL METAL STUDS @ 24" O.C. METAL STUDS @ 16" O.C. STAGGER STUD 5 BRACING TO STRUCTURE STUD TO CLG. @ 48" O.C. CHASE WALL FLOOR TRACK SEALANT EACH SIDE RESILIENT BASE, 4" CONT. SPONGE RUBBER GASKET, 1/2" X 3" (@ clg.) SUSPENDED CEILING FASTEN METAL STUDS TO CLG. "T"

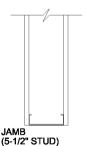
5-1/2" METAL FRAME PARTITION

5-1/2" METAL FRAME PARTITION

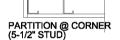


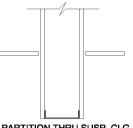




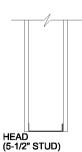








PARTITION THRU SUSP. CLG. (5-1/2" STUD)



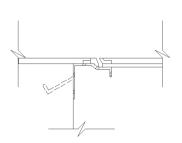
NOTATION CHECKLIST, SAMPLE NOTES

METAL STUDS (SIZE & SPACING)
METAL RUNNER/ANCHORS
METAL TRACK/HEADER
ADJACENT CEILING OR SLAB
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES/
WATERPROOFING
HOOKS/TRACKS
WALL MOUNTED FIXTURES
WALL ANCHORS/MOUNTING
BRACKETS
RAILINGS/WALL GUARDS
THRU-WALL SLEEVE
SEALANT/SOUND BARRIER/
LEAD LINING
JOINTS (CONTROL OR EXPANSION)
ADJACENT FINISHES
GYPSUM WALL BOARD
WATER-RESISTANT GYP.BD.
CORNER BEAD
CONTROL JOINT
SOUND ATTENUATION BLANKET
RIGID INSULATION

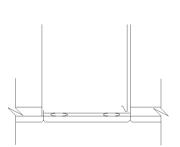
PLYWOOD
METAL WALL ANGLE @ CLG.
FURRING CHANNEL
METAL RUNNER
SUSP. METAL FURRING CHANNEL
METAL STUDS @ 24" O.C.
METAL STUDS © 16" O.C.
STAGGER STUDS
BRACING TO STRUCTURE
STUD TO CLG. @ 48" O.C.
CHASE WALL
FLOOR TRACK
SEALANT EACH SIDE
RESILIENT BASE, 4"
CONT. SPONGE RUBBER GASKET, 1/2" X 3" (@ clg.)
SUSPENDED CEILING
FASTEN MTL. STUDS TO CLG. 'T'

ACCESS PANELS

ACCESS PANEL Wall



ACCESS PANEL Floor



ACCESS PANEL Ceiling

ACCESS PANELS

DETAIL DATA CHECKLIST

ACCESS PANELS

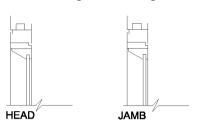
- __See manufacturers' catalogs for standard sizes, finishes, and materials. wood frame, metal frame, masonry, or concrete construction.
- __Detail drawings are included mainly to show special anchoring conditions--screws, anchor bolts, etc., in
- __See manufacturers' and suppliers' catalogs for detail design data and specifications.
- __See manufacturer's recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST

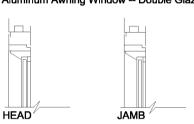
FINISH FLOOR SUBFLOOR/SLAB WALL CONSTRUCTION/FRAMING CEILING CONSTRUCTION CHANNEL/SUPPORT WIRES METAL FRAME/ANCHOR ACCESS PANEL HARDWARE

ALUMINUM AWNING & CASEMENT WINDOWS

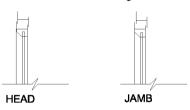
Aluminum Awning Window -- Single Glazed



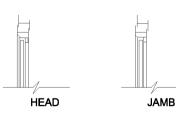


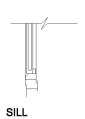


Aluminum Casement -- Single Glazed



Aluminum Casement -- Double Glazed





SILL

SILL

ALUMINUM AWNING & CASEMENT WINDOWS

DETAIL DATA CHECKLIST

ALUMINUM AWNING & CASEMENT WINDOWS

- __See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- __Detail drawings are required mainly to show the relationship of windows to wall construction such as
- connections to wood frame, masonry, or concrete wall construction.
 __Details or window schedules should show rough-opening sizes and shim tolerance allowances
 - (1/2" all around is a common allowance for shim space).
- __Details should show flashing and caulking at heads, jambs, and sills.
- __See manufacturers' recommendations for connections to varied wall construction.

Alls nox

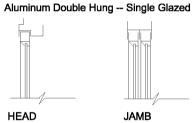
NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

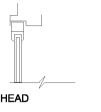
ANODIZED ALUM. TRIM

1/4" TEMP. GLASS
EXTRUDED ALUM. SILL TO MATCH WINDOW
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SINGLE PANE GLASS
ALUM. HEAD. SEALANT BOTH SIDES
ALUM. SILL W/SEALANT EACH SIDE
WOOD NAILER
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
GYPSUM WALLBOARD
FLASHING
SEALANT

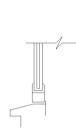
ALUMINUM DOUBLE HUNG WINDOWS



Aluminum Double Hung -- Double Glazed







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ALUMINUM DOUBLE HUNG WINDOWS

DETAIL DATA CHECKLIST

ALUMINUM DOUBLE HUNG WINDOWS

- __See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- __Detail drawings are required mainly to show the relationship of windows to wall construction such as
- connections to wood frame, masonry, or concrete wall construction.
- ____Details or window schedules should show rough-opening sizes and shim tolerance allowances
 - (1/2" all around is a common allowance for shim space).
- __Details should show flashing and caulking at heads, jambs, and sills.
- _See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST, SAMPLE NOTES

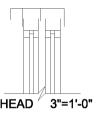
WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE
REMOVABLE SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

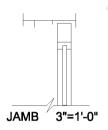
ANODIZED ALUM. TRIM
1/4" TEMP. GLASS
EXTRUDED ALUM. SILL TO MATCH WINDOW
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SINGLE PANE GLASS
SINGLE PANE GLASS
ALUM. HEAD, SEALANT BOTH SIDES
ALUM. SILL WISEALANT EACH SIDE
WOOD NAILER
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
GYPSUM WALLBOARD
FLASHING
SEALANT

ALUMINUM SLIDING GLASS DOORS

ALUMINUM SLIDING GLASS DOORS

Aluminum Sliding Glass Door -- Single Glazed







Aluminum Sliding Glass Door -- Double Glazed







DETAIL DATA CHECKLIST

ALUMINUM SLIDING GLASS DOORS

These are manufactured products provided in standard widths and heights.
__Detail drawings are included mainly to show special anchoring

conditions: Screws, anchor bolts, expansion bolts, etc., in wood frame, masonry, or concrete wall construction.

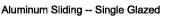
See manufacturers' and suppliers' catalogs for design data, details, and specifications.

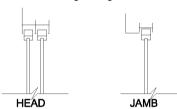
See manufacturer's recommendations for wall and header anchors.

NOTATION CHECKLIST, SAMPLE NOTES

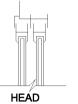
WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT/SEALANT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

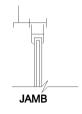
ALUMINUM SLIDING WINDOWS





Aluminum Sliding -- Double Glazed







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ALUMINUM SLIDING WINDOWS

DETAIL DATA CHECKLIST ALUMINUM SLIDING WINDOWS

- See manufacturers' and suppliers' catalogs for standard sizes, detail
- design data, materials, and finishes.
 connections to wood frame, masonry, or concrete wall construction.
 Detail drawings are required mainly to show the relationship of
- windows to wall construction such as
 ______Details or window schedules should show rough-opening sizes and shim tolerance allowances
 - (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills. See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST, SAMPLE NOTES

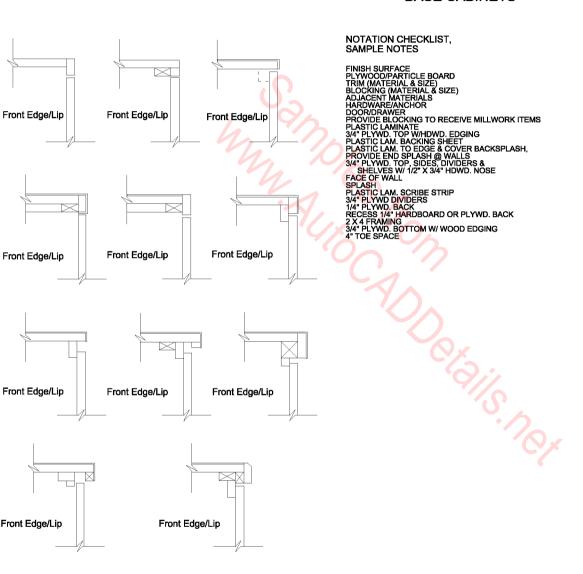
WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/MEEP HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

ANODIZED ALUM. TRIM

1/4" TEMP. GLASS
EXTRUDED ALUM. SILL TO MATCH WINDOW
METAL SILL BELOW
HERMOPANE INSULATING GLASS
SINGLE PANE GLASS
ALUM. HEAD, SEALANT BOTH SIDES
ALUM. SILL WISEALANT EACH SIDE
WOOD NAILER
TREATED BLOCKING
1 X WOOD TRIM
METAL EDGE BEAD
STUD
GYPSUM WALLBOARD
FLASHING
SEALANT

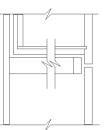
BASE CABINETS

BASE CABINETS



CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWD.
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS
FIXED SHELF
3/4" PLYWD. SHELF W/ 1X2 SUPPORT CLEAT &
1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX.
3/4" PLYWD. SHELVES W IDWD. EDGING
1 X 2 WD. SUPPORT @ WALL ANCHOR W/ 1/4" DIA.
TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL, ATTACHED TO END WALL,
W STUDS @ 1-0" O.C. @ LAV. PERIMETER
DRAWER
SOLID WOOD DRAWER SIDES, HDWD. DRAWER
FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS

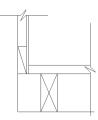
BASE CABINETS



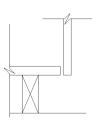
Door & Drawer



Back Base



Back Base



Front Base

BASE CABINETS

NOTATION CHECKLIST.

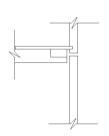
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
3/4" PLYWD. TOP W/HARDWOOD. EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER
BACKSPLASH,
PROVIDE END SPLASH, @ WALLS
3/4" PLYWOOD TOP, SIDES, DIVIDERS &
SHELVES W/1/2" X 3/4" HARDWOOD NOSE
FACE OF WALL
SPLASH. 3/4
SI
FACE
SPLASH
PLASTIC L
3/4* PLYWOO
1/4* PLYWOO
RECESS 1/4* HA
2 X 4 FRAMING

SAMPLE NOTES

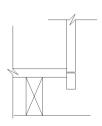
FINISH SURFACE
PLYWOOD/PARTICLE BOARD
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER
PROVIDE BLOCKING TO RECEIVE MILLWORK
ITEMS

Back Base

Door & Drawer



Drawer



Front Base

3/4" PLYWWOOD BOTTOM WWOOD EDGING
4" TOE SPACE
CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWOOD
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/BRACKETS
FIXED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/BRACKETS
FIXED SHELF W/1X2 SUPPORT CLEAT &
1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX.
3/4" PLYWOOD SHELVES W/HARDWOOD EDGING
1 X 2 WD. SUPPORT @ WALL ANCHOR W/1/4" DIA.
TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL, ATTACHED TO END WALL
W/ STUDS @ 1"-0" O.C. @ LAV. PERIMETER
DRAWER
SOLID WOOD DRAWER SIDES, HARDWOOD DRAWER
FRONTS
PRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS

BASE CABINETS

Wholes in the state of the stat Splash Splash Splash Splash Splash

BASE CABINETS

NOTATION CHECKLIST, SAMPLE DETAILS

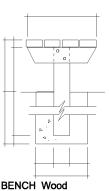
FINISH SURFACE
PLYWOOD/PARTICLE BOARD
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
3/4" PLYWOOD TOP W/ HDWD. EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER BACKSPLASH,
PROVIDE END SPLASH @ WALLS
3/4" PLYWOOD TOP, SIDES, DIVIDERS &
SHELVES W/1/2" X 3/4" HDWD. NOSE
FACE OF WALL
SPLASH
PLASTIC LAM. SCRIBE STRIP PLASTIC LAM. SCRIBE STRIP 3/4" PLYWOOD DIVIDERS 1/4" PLYWOOD BACK RECESS 1/4" HARDBOARD OR PLYWOOD BACK 2 X 4 FRAMING
3/4" PLYWOOD BOTTOM W/ WOOD EDGING
CHAMFERED TRIM PIECE
FLUSH DOORS, OAK VENEER ON PLYWOOD
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE-MOUNTED ADJ. SHELF STD'S.
W/ BRACKETS
FIXED SHELF
3/4" PLYWOOD SHELF W/1X2 SUPPORT CLEAT &
1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX.
3/4" PLYWD. SHELVES W/HARDWOOD EDGING
1 X 2 WOOD SUPPORT @ WALL ANCHOR W/1/4" DIA.
TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL, ATTACHED TO END WALL,
W/ STUDS @ 1'-0" O.C. @ LAV. PERIMETER
DRAWER 2 X 4 FRAMING SOLID WOOD DRAWER SIDES, HDWD, DRAWER FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS

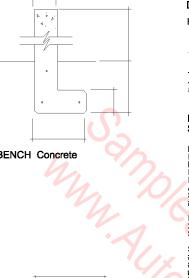
BENCHES

BENCH Concrete

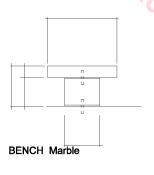


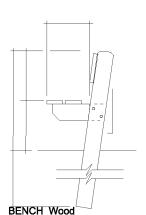
BENCH Masonry





BENCH Concrete





BENCHES

DETAIL DATA CHECKLIST

BENCHES

and specifications.

- Benches are often purchased ready-made, or fabricated as variations on common bench types and styles.
- Detail drawings are included mainly to show desired bench sizes and types, and to indicate anchoring to the ground or pavement.
- See manufacturers' recommendations for anchoring. See manufacturers' and suppliers' catalogs for design data, details,

NOTATION CHECKLIST, SAMPLE NOTES

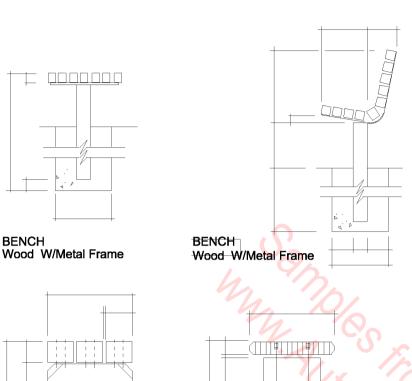
MATERIAL SURFACE/FINISH
FRAME/SUPPORT
BOLTS/ANCHORS
FINISH GRADE/PAVING
FOOTING
AGGREGATE BASE
SUBGRADE
#4 DOWEL IN 5/8" DIA. HOLE
(tie CMU bench to supports to slab)
PRECAST CONC. BENCH.
3/4" CAMFER TYP. ALL CORNERS
STEEL INBED PLATES @ 4-0" O.C. SHIM & WELD
(to connect precast bench to footing)
SEALANT @ 1/2" FIBER JOINT
#4 BARS CONT. (horiz. approx. 1" O.C.)
#4 BARS VERT @ 3'-0" O.C.
#4 BARS CONT. (Ø bottom)
REDWOOD SPACERS, GLUE TO SLAT
W/WATERPROOF ADHESIVE MAN.

ADDORANIS

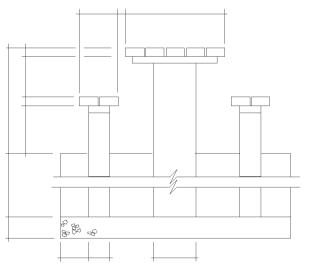
ORANIS

ORANI REDWOOD SLATS
1/2" X 2" X 3" STL CHANNEL, PAINT 2 COATS FLAT
ENAMEL
CAP CHANNEL ENDS W/1/8" STEEL, WELD & GRIND
SMOOTH
NAILER W/ GLUED SPACERS ABOVE
3/4" CONT. CHAMFERED TOP EDGE
3/8" DIA GAL. THREADED STEEL ROD, COUNTER SINK
NUT & WASHER, PLUG W/1" DIA. X 3/4" HRDWD.
DOWEL
SET WWATERPROOF ADHESIVE
3/8" GAL. LAG BOLT
1/4" DIA X 3" LAG BOLT
1/2" SOLID WD. SPACER @ 4 X 4 SUPPORT
1/2" SOLID WD. SPACER @ 4 X 4 SUPPORT
2 X 4 TOE NAILED TO 4 X 4 &
NAILED TO NEXT 2 X 4 THRU SPACER

BENCHES



BENCH Wood W/Concrete/ Masonry Base



PICNIC TABLE & BENCHES

BENCH Wood

W/Metal Frame

BENCHES

DETAIL DATA CHECKLIST

BENCHES

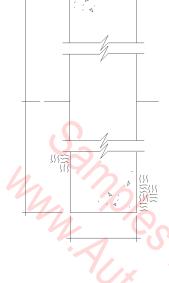
- Benches are often purchased ready-made, or fabricated as variations on common bench types and styles.
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- See manufacturers' recommendations for anchoring.
- See manufacturers' and suppliers' catalogs for design data, details, and specifications.

NOTATION CHECKLIST, SAMPLE NOTES

MATERIAL SURFACE/FINISH
FRAME/SUPPORT
BOLTS/ANCHORS
FINISH GRADE/PAVING
FOOTING
AGGREGATE BASE
SUBGRADE
#4 DOWEL IN 5/8" DIA. HOLE
(tie CMU bench to supports to slab)
PRECAST CONC. BENCH.
3/4" CAMFER TYP. ALL CORNERS
STEEL INBED PLATES @ 4'-0" O.C. SHIM & WELD
(to connect precast bench to footing)
SEALANT @ 1/2" FIBER JOINT
#4 BARS CONT. (horiz. approx. 1' O.C.)
#4 BARS VERT @ 3'-0" O.C.
#4 BARS VERT @ 3'-0" O.C.
#4 BARS CONT. (do bottom)
REDWOOD SPACERS, GLUE TO SLAT
W WATERPROOF ADHESIVE
REDWOOD SLATS
1/2" X 2" X 3" STL CHANNEL, PAINT 2 COATS FLAT
ENAMEL
CAP CHANNEL ENDS W/ 1/8" STEEL, WELD &
GRIND SMOOTH
NAILER W/ GLUED SPACERS ABOVE
3/4" CONT. CHAMFERED TOP EDGE
3/8" DIA GAL. THREADED STEEL ROD, COUNTER
SINK NUT
& WASHER, PLUG W/ 1" DIA. X 3/4" HRDWD.
DOWEL
SET W/ WATERPROOF ADHESIVE
3/8" GAL. LAG BOLT
1/4" DIA X 3" LAG BOLT @ 4 X 4 SUPPORT
1/2" SOLID WD. SPACER @ 4 X 4 SUPPORT 1/4" DIA X 3" LAG BOLT @ 4 X 4 SUPPORT 1/2" SOLID WD. SPACER @ 4 X 4 SUPPORT 2 X 4 TOE NAILED TO 4 X 4 & NAILED TO NEXT 2 X 4 THRU SPACER 2 X 8 4 X 4 4 X 4 6 X 8 X 16 CMU W/ SOLID GROUT #4 DOWL (tie CMU bench to supports to slab) IN 5/8" DIA. HOLE

BOLLARDS Conc.

CONCRETE BOLLARD



CONCRETE BOLLARD



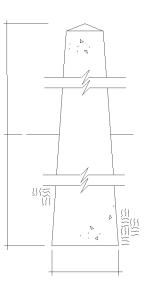
DETAIL DATA CHECKLIST

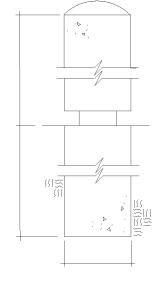
BOLLARDS

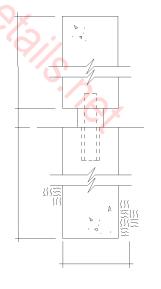
- __Chamfer or round edges
- __Add eye bolts or steel rings for chains
- Place rebar in the core of the bollard (vertically) for added strength

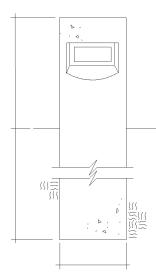
NOTATION CHECKLIST, SAMPLE NOTES

POLE/BOLLARD (SIZE & MATERIAL)
CAP/TOP SLOPE
FINISH GRADE/PAVING
BACKFILL/AGGREGATE/SAND
AGGREGATE BASE
SUBGRADE
TOP RAIL PIPE (MATERIAL & SIZE)
PIPE POST (SIZE & SPACING)
INTERMEDIATE PIPE RAILS (SIZE & SPACING)
PIPE SLEEVE/ANCHOR
PAVING/SLAB/CURB
6" DIA. STEEL PIPE FILLED W/ CONC. GROUT
(Typ. steel pipe dia.: 2" to 12")
SLOPE TOP OF FOOTING
(Typ. 1" min. above grade)
1'-6" DIA. CONC. FOOTING. (2'-3' ht. typ.)
EXPANSION JOINT (@ adjacent paving)
1/8" STEEL PLATE CAP,
WELD & GRIND SMOOTH
TREATED 6" DIA. WOOD POLE
COMPACTED SAND FILL
PRECAST CONC. FOUNDATION BLOCK
LIGHT FIXTURES (where occur)









CONCRETE BOLLARD

CONCRETE BOLLARD

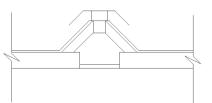
CONCRETE BOLLARD

CONCRETE BOLLARD

BREATHER VENTS



BREATHER VENT



BREATHER VENT

BREATHER VENTS

BREATHER VENT, ROOFING VENT, MEMBRANE VENT, RELIEF

DETAIL DATA CHECKLIST

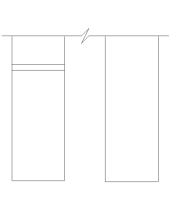
Breather vents allow entrapped moisture to escape from layers of built-up roofing membranes They are manufactured items and should be sized and installed as per manufacturers' instructions, and roofing manufacturers' recommendations Some manufactured units close under exterior air pressure to prevent evaporated moisture in the air from reversing flow and entering the membrane through the vent Sizes and installation: Units are 4 to 6" diameter, 12" high Install on wood blocks or nailer atop roof substrate and even with roof insulation Mount on blocks or nailers with 1/2" vent holes at 2" o.c. Mount 12" to top of vent with sheet metal peaked cap above Provide bird screen to prevent nesting under cap

NOTATION CHECKLIST, **SAMPLE NOTES**

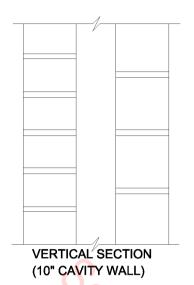
METAL HOOD & FASTENERS
FLANGED METAL VENT STACK
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
GALV. PIPE WITREADED END CAP
METAL PIPE
PREMOLDED PIPE SEAL
SFALANT SEALAN SEALAN I
FLASHING FELT
STAINLES STEEL CLAMPING RING
WATER CUTOFF MASTIC
CORE HOLE AS REQUIRED
OPENINGS FOR ROOF VENTS TO BE PREFORMED
ALLOW 1-1/2" MIN. CLEAR AIR PASSAGE TO VENT
BUILT-UP ROOF
RIGID INSULATION
METAL DECKING METAL DECKING

BRICK & BLOCK CAVITY WALLS

BRICK & BLOCK CAVITY WALLS

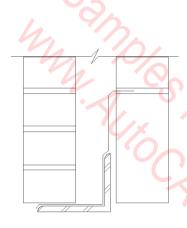


JAMB (10" CAVITY WALL)



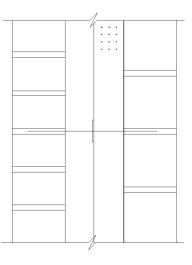


LINTEL (10" CAVITY WALL)



LINTEL (10" CAVITY WALL)

FULL-SCALE GENERIC DETAILS



VERTICAL SECTION (INSULATED CAV. WALL)

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related
construction such as door frames, window frames, furred walls,
wall mounted fixtures, and wall penetrations such as for
pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

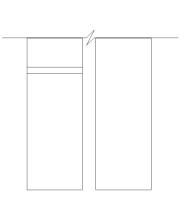
Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST, SAMPLE NOTES

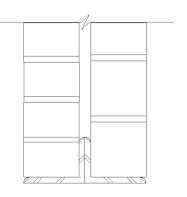
MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL-MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES
INTERIOR FURRING/FINISH
DOORWINDOW/LOUVER FRAME
LINTEL

CONCRETE BLOCK
4" LIGHTWEIGHT CONC. BLOCK
FACE BRICK
BRICK VENEER W/ METAL TIES TO STUD WALL
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET
GROUT
SHIM
5" X 3" X 1/4" CONT. SHELF ANGLE
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
WEEP HOLES @ 32" O.C.
METAL STRAP ANCHORS EVERY 6TH COURSE
BRICK ANCHORS
VERT. CONT. ANCHOR SLOTS SPACED 2'-O" O.C.
#4 @ 16" O.C., GROUT CORES
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAM INSULATION

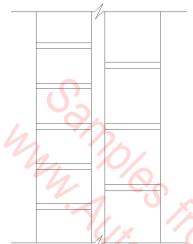
BRICK & BLOCK CAVITY WALLS



JAMB (8" CAVITY WALL)



LINTEL (8" CAVITY WALL)



VERTICAL SECTION (8" CAVITY WALL)

'ク う.

BRICK & BLOCK CAVITY WALLS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS These wall section details are to be combined with related construction such as door frames, window frames, furred walls, wall mounted fixtures, and wall penetrations such as for pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

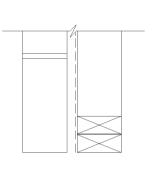
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NOTATION CHECKLIST, SAMPLE NOTES

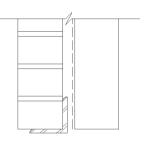
MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL-MOUNTED
FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

CONCRETE BLOCK
4" LIGHTWEIGHT CONC. BLOCK
FACE BRICK
BRICK VENEER W/ METAL TIES TO STUD WALL
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET
GROUT
SHIM
5" X 3" X 1/4" CONT. SHELF ANGLE
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
WEEP HOLES @ 32" O.C.
METAL STRAP ANCHORS EVERY 6TH COURSE
BRICK ANCHORS
VERT. CONT. ANCHOR SLOTS SPACED 2'-O" O.C.
#4 @ 16" O.C., GROUT CORES
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAM INSULATION

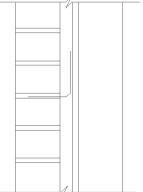
BRICK VENEER



JAMB (4" BRICK VENEER)



LINTEL (4" BRICK VENEER)



VERTICAL SECTION (4" BRICK VENEER)



VERTICAL SECTION

(4" BRICK VENEER)

JAMB (4" BRICK VENEER)

BRICK VENEER

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related
construction such as door frames, window frames, furred walls,
wall mounted fixtures, and wall penetrations such as for
pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

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NOTATION CHECKLIST. SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL MOUNTED
FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

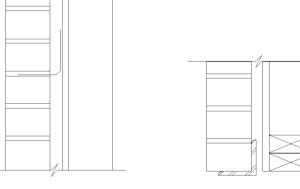
LINTEL

BATT INSULATION
INSULATION BOARD
WOOD SIDING

15# FELT
1/2" FOIL FACE INSULATION
AIR SPACE
1/2 X 6 BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2 X JOISTS @ "O.C.
2 X RAFTERS @ "O.C.
2 X RAFTERS @ "O.C.
BLOCKING
FLASHING
GYP. BD. CEILING
HARDWOOD JAMB
2 X 4 CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1 X WOOD STOP
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS

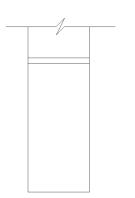
CONCRETE BLOCK
4" LIGHTWEIGHT CONC. BLOCK
FACE BRICK
BRICK VENEER W/ METAL TIES TO STUD WALL
WEEP HOLES
CONT. SEALANT
4" STARTER COURSE
CONT. FLASHING
FABRIC FLASHING SET IN REGLET
GROUT
SHIM

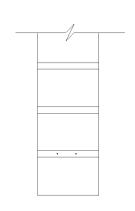
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
WEEP HOLES @ 32" O.C.
METAL STRAP ANCHORS EVERY 6TH COURSE
HORIZ.
BRICK ANCHORS
VERT. CONT. ANCHOR SLOTS SPACED 2'-0" O.C.
#4 @ 16" O.C. GROUT CORES
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAMED INSULATION



BRICK WALLS

BRICK WALLS





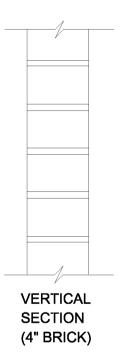
DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related
construction such as door frames, window frames, furred walls,
wall mounted fixtures, and wall penetrations such as for
pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

JAMB (4" BRICK)



LINTEL (4" BRICK)



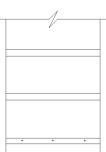
(6" SCR

BRICK)

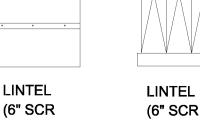
NOTATION CHECKLIST, SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL-MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

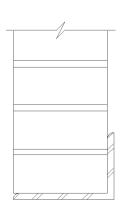
STARTER COURSE FLASHING CONT. FABRIC FLASHING SET IN REGLET GROUT CONT. SHELF ANGLE STEEL LINTEL ELEV. STEEL ANGLE LINTEL BRICK ANCHORS HORIZ. JOINT REINF.



BRICK)

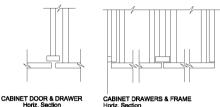


BRICK)

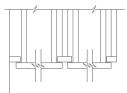


LINTEL (6" SCR BRICK)

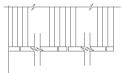
CABINET DRAWERS



CABINET DRAWERS & FRAME Horiz. Section



CABINET DRAWERS & FRAME Horiz. Section



CABINET DRAWERS & FRAME Horiz. Section

CABINET DRAWERS

NOTATION CHECKLIST, SAMPLE NOTES

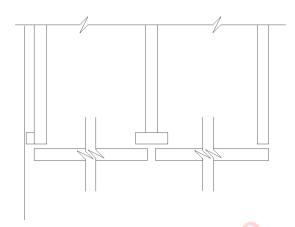
NOTATION CHECKLIST,
SAMPLE NOTES
PLYWOODPARTICLE BOARD
DRAWER FACE FINISH SURFACE
DRAWER SIDES (MATERNAL & SIZE)
FACE FRAME FRAME

Dolails nox

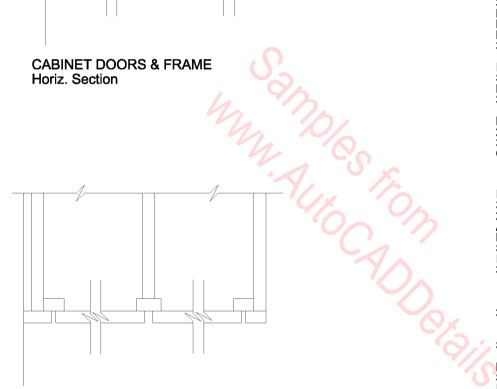


CABINET DOORS

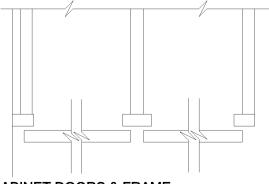
CABINET DOORS



CABINET DOORS & FRAME Horiz. Section



CABINET DOORS & FRAME Horiz. Section

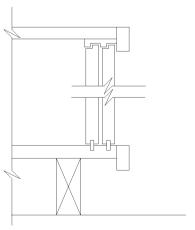


CABINET DOORS & FRAME Horiz. Section

NOTATION CHECKLIST, SAMPLE NOTES

PLYWOOD/PARTICLE BOARD
DRAWER FACE FINISH SURFACE
DRAWER SIDES (MATERIAL & SIZE)
FACE FRAME (MATERIAL & SIZE)
CABINET SIDE PANELS
(MATERIAL & THICKNESS)
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
3/4" PLYWD. TOP W/ HDWD. EDGING
PLASTIC LAM. BACKING SHEET
PLASTIC LAM. TO EDGE & COVER BACKSPLASH,
PROVIDE END SPLASH @ WALLS
3/4" PLYWD. TOP, SIDES, DIVIDERS &
SHELVES W/ 1/2" X 3/4" HDWD. NOSE
FACE OF WALL FACE OF WALL FACE OF WALL
SPLASH
PLASTIC LAM. SCRIBE STRIP
3/4" PLYWD DIVIDERS
1/4" PLYWD. BACK
RECESS 1/4" HARDBOARD OR PLYWD. BACK
2 X 4 FRAMING
3/4" PLYWD. BOTTOM W/ WOOD EDGING

FLUSH DOORS, OAK VENEER ON PLYWD.
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOOR
ADJUSTABLE SHELVES
RECESSED SHELF STANDARDS
SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS SURFACE MOUNTED ADJ. SHELF STD S. WI BRACK
FIXED SHELF
3/4" PLYWD. SHELF W/ 1X2 SUPPORT CLEAT &
1 X 3 EDGE STRIP
1 X 12 SHELVES & BACKING
1 X 12 DIVIDER @ 44" O.C. MAX.
3/4" PLYWD. SHELVES WI HDWD. EDGING
1 X 2 WD. SUPPORT @ WALL ANCHOR W/ 1/4" DIA.
TOGGLE BOLTS @ 24" O.C.
STEEL CHANNEL, ATTACHED TO END WALL,
W/ STUDS @ 1'-0" O.C. @ LAV. PERIMETER
DRAWER W/ STUDS @ 1'-0" O.C. @ LAV. PERIMETER
DRAWER
SOLID WOOD DRAWER SIDES, HDWD. DRAWER
FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS



CABINET SLIDING DOORS Vert. Section

CARPET FLOORING

CARPET W/PAD & TACK STRIP SNAP-ON CARPET EDGE CARPET @ VINYL **REDUCER**

CARPET BASE









CARPET FLOORING

DETAIL DATA CHECKLIST

CARPET

- __Typical thickness 1/2" to 1"
- __Be sure carpet notation in drawings corresponds to specifications
- Detailing is required only to show special flooring, base, or joint
- Carpet application is sometimes incomplete, with very serious consequences; strictly enforce
- compliance with drawings, specifications, and manufacturers'
- Carpet may have to be ordered before construction begins to assure delivery in time for
- occupancy, so carpet selection and specification may precede the rest of the documents

NOTATION CHECKLIST. SAMPLE NOTES

PAD TACK STRIP REDUCER SUBFLOOR/SLAB SUBFLOOR/SLAB
GLUE DOWN CARPET
CARPET & PAD W/TACK STRIPS
FINISH CONC.
BUILD UP CONC. FLOOR W/FLOORSTONE AS
REQ'D.
PLYWOOD SUBFLOOR
PLYWOOD UNDERLAYMENT
PARTICLE BOARD UNDERLAYMENT
MASTIC. MASTIC MASTIC
ADHESIVE
THRESHOLD
REDUCER STRIP
CARPET TILE JOINER
CARPET EDGE STRIP

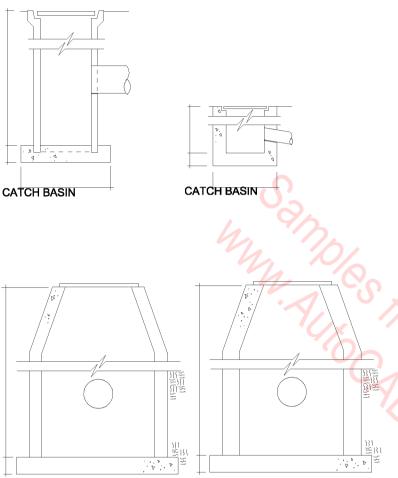


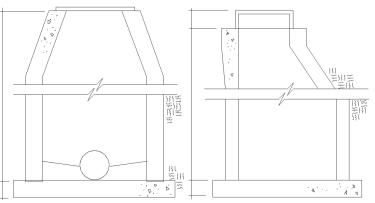






CATCH BASINS





STORM DRAIN & MANHOLE

CATCH BASIN 6" Wall

CATCH BASIN

CATCH BASIN 8" Wall

CATCH BASINS

DETAIL DATA CHECKLIST MANHOLES Spaced 300' to 600' apart for inspection and maintenance (Also depends on sewer size and local standards) Manhole walls for a combined or sanitary sewer may be: 8" brick 6" concrete 6" solid concrete manhole block or precast concrete units to depth of 12' Below 12' depth all brick and block walls shall be 12" thick Manholes over 12' deep shall also have a 12' thick base IINLETS AND CATCH BASINS _Choice of the unit is subject to local codes and practice __Choice of the unit is subject to local codes and practice _Spacing depends on the size and type of unit, and the slope of gutter or swale in relation to anticipated _walls may be: __8" brick __8" CMU _6" poured concrete _5" precast concrete DRAIN INLET COVERS Usually precast concrete or cast iron (also ductible iron) Frames and grates available for light and heavy loading conditions

GRATES _____In areas of foot or bike traffic, grates must not allow penetration by:
______Heels
_____Crutches
______Cane tips

Tires
Must still provide sufficient drainage

Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST, SAMPLE NOTES

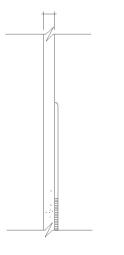
FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
METAL GRATING FRAME
PIPE (TYPE, SIZE, MATERIAL)
CONCRETE BASE
REINFORCING
AGGREGATE
BACKFILL
COMPACTED SUBGRADE
FLOW (show direction)
#4 BARS @12" O.C. EACH WAY
#3 BARS @10"O.C. EACH WAY

CERAMIC TILE BASE & WAINSCOT

CERAMIC TILE BASE & WAINSCOT



Thin-Set



CERAMIC TILE WAINSCOT Thin-Set



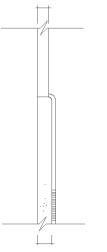


SAMPLE NOTES

NOTATION CHECKLIST,

FINISH FLOOR (MATERIAL & THICKNESS)
SETTING BED (MATERIAL & THICKNESS)
JOINT SIZE
FLOOR MEMBRANE/WATERPROOFING
SUBFLOOR/SLAB
REINFORCING
CERAMIC TILE
BOND COAT/MORTAR BED
SCRATCH COAT
MEMBRANE
WALL CONSTRUCTION

FINISH FLOOR (MATERIAL & THICKNESS)
THINSET QUARRY TILE
QUARRY TILE
WATERPROOF GYPSUM BOARD
ADHESIVE
WATERPROOF GYPSUM



CERAMIC TILE WAINSCOT Cement Mortar

CERAMIC TILE FLOOR

CERAMIC TILE FLOOR

CERAMIC TILE FLOOR Thin-Set

CERAMIC TILE FLOOR
Thin-Set On Wood

CERAMIC TILE FLOOR Glass Mesh/Mortar

CERAMIC TILE FLOOR
Cement Mortar On Wood

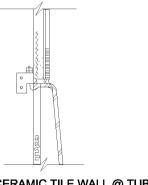
CERAMIC TILE FLOOR Cement Mortar

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & THICKNESS) SETTING BED (MATERIAL & THICKNESS) JOINT SIZE FLOOR MEMBRANE/ WATERPROOFING SUBFLOOR/SLAB REINFORCING CERAMIC TILE BOND COAT/MORTAR BED SCRATCH COAT **MEMBRANE** WALL CONSTRUCTION THINSET QUARRY TILE QUARRY TILE ROUND TOP COVE BASE WATERPROOF GYP. BD. **ADHESIVE** SETTING BED MORTAR BED W/REINFORCING ANGLE EDGER THRESHOLD HARDWOOD DIVIDER STRIP REDUCER STRIP DOOR SILICONE SEALER SLOPE FROM CURB TO DRAIN

CERAMIC TILE TUBS & RECEPTORS

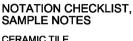
CERAMIC TILE TUBS & RECEPTORS



CERAMIC TILE WALL @ TUB Plaster Wall

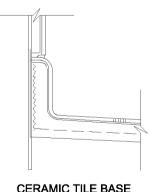


CERAMIC TILE WALL @ TUB Gypsum Board Wall

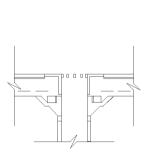


CERAMIC TILE
WALL CONSTRUCTION
WALL FRAMING
TUB HANGER
TUB
SETTING BED
LATH/REINFORCING
WATERPROOF MEMBRANE
DRAIN

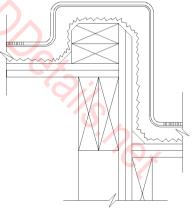
THINSET QUARRY TILE
QUARRY TILE
ROUND TOP COVE BASE
CERAMIC CAP
BUILLNOSE CAP
WATERPROOF GYPSUM BOARD
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
HARDWOOD DIVIDER STRIP
REDUCER STRIP
DOOR
SILICONE SEALER
SLOPE FROM CURB TO DRAIN



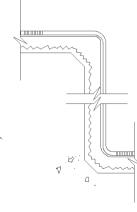
CERAMIC TILE BASE SHOWER RECEPTOR



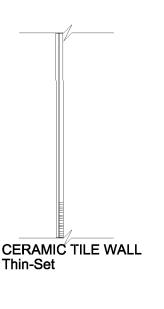
CERAMIC TILE BASE FLOOR @ DRAIN



CERAMIC TILE TUB



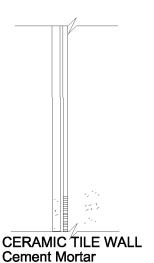
CERAMIC TILE TUB



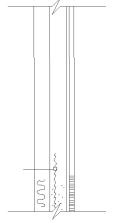




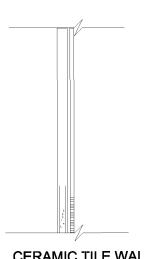
CERAMIC TILE
ADHESIVE/DRY-SET
BOND COAT/MORTAR BED
SCRATCH COAT
MEMBRANE
WALL CONSTRUCTION
THINSET QUARRY TILE
QUARRY TILE
ROUND TOP COVE BASE
WATERPROOF GYPSUM
BOARD
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
HARDWOOD DIVIDER STRIP
REDUCER STRIP
DOOR
SILICONE SEALER
SLOPE FROM CURB TO DRAIN







CERAMIC TILE WALL @ STEAM ROOM

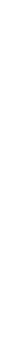


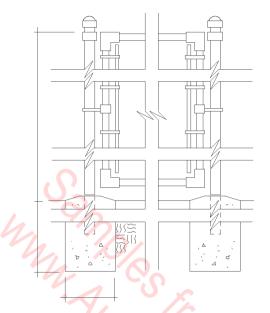
CERAMIC TILE WALL Thin-Set on Gypsum Board

CHAIN LINK FENCE

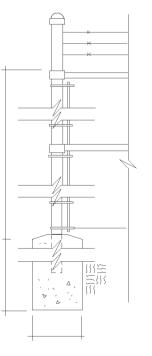
CHAIN LINK FENCE

CHAIN LINK FENCE

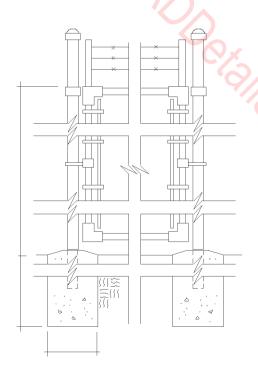




CHAIN LINK FENCE Gate



CHAIN LINK FENCE W/Barbed wire



CHAIN LINK FENCE Gate W/Barbed wire

DETAIL DATA CHECKLIST

CHAIN LINK FENCING
__See manufacturer's data for:

manufacturer's data for.
Size of pipe
Size of mesh
Depth of footing
Standard spacing of posts
Size and spacing of braces

_Special options:
___Gate size
___Barbed wire type
___Barbed wire extension arms

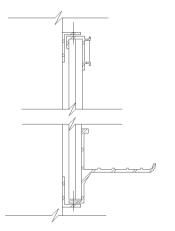
Number of wires

NOTATION CHECKLIST, SAMPLE NOTES

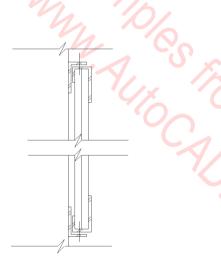
CHAIN LINK FENCE BARBED WIRE POST/POST CAP **TENSION WIRE BRACE RAIL** TIE ROD FINISH GRADE/PAVING **FOOTING** AGGREGATE BASE

VISE CONNECTORS (connect groundwire to fencing/barbed wire) DOWN CONDUCTOR COPPER CONDUCTOR CABLE MIN. #6 GROUND ROD MIN. 3/4" O.D. BY 8' LONG **BOTTOM SALVAGE WIRE**

CHALKBOARDS & TACKBOARDS







TACKBOARD

CHALKBOARDS & TACKBOARDS

DETAIL DATA CHECKLIST

CHALKBOARDS & TACKBOARDS

- See manufacturers' catalogs for standard sizes, finishes, and materials.
- wood frame, metal frame, masonry, or concrete wall construction.

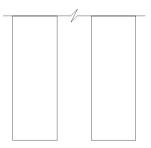
 Detail drawings are included mainly to show special anchoring
- conditions--screws, anchor bolts, etc., in
- See manufacturers' and suppliers' catalogs for detail design data and specifications.
- __See manufacturer's recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST, SAMPLE NOTES

CORK TACKBOARD CHALKBOARD HARDBOARD BACK PANEL CHALK TRAY ANGLE BRACKETS/FASTENERS WALL CONSTRUCTION/FRAMING

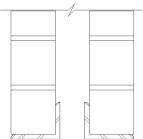
TACK SURFACE
WOOD GROUND
STEEL SURFACE, ON BACKER BOARD
WOOD BLOCKING @ STUD WALL
METAL FRAME
PERIMETER TRIM
SCREW ON TRIM OVER WOOD GROUNDS
CHALK TROUGH

CONCRETE BLOCK CAVITY WALLS



JAMB

(10" HMU CAVITY WALL)



LINTEL (10" HMU CAVITY WALL)



VERTICAL SECTION (10" HMU CAVITY WALL)

CONCRETE BLOCK CAVITY WALLS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related
construction such as door frames, window frames, furred walls,
wall mounted fixtures, and wall penetrations such as for
pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST, SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
METAL TIES
AIR SPACE/GROUT
RIGID INSULATION
WEEP HOLES

8" CONCRETE BLOCK, GROUT CORES FULL & BREAK OUT WEB AS REQ'D. FOR #4 BAR VERT. 8" LINTEL BLOCK CONC. BLOCK FLASHING SEALANT CAULK #4 @ 48" O.C. ALTERNATE - GROUT REINF. CELLS #4 VERT. REINFORCEMENT @ 2'-0" O.C. HORIZ. JOINT REINF. @ 16" O.C. 1/2" PREMOLDED JOINT FILLER EXTRUDED CONTROL JOINT FILLER FACE BRICK 1" PERIMETER INSULATION BOND BEAM W#5 CONT. @ 32" O.C. #4 CONT. IN BOND BEAM SASH BLOCK - EACH SIDE 16 GA. STEEL MESH EVERY OTHER COURSE (@ masony interior partition joint) INSULATION DISCONTINUE MASONRY REINF. @ CONTROL JOINT EXPANSION SHIELD

STARTER COURSE
FLASHING CONT.
FABRIC FLASHING SET IN REGLET
GROUT
CONT. SHELF ANGLE
STEEL LINTEL ELEV.
STEEL ANGLE LINTEL
BRICK ANCHORS
HORIZ. JOINT REINF.

8" CONCRETE BLOCK
CONC. SLAB
SEE FOUNDATION PLAN FOR SLAB THICKNESS
& FIN. FLOOR ELEV.
SEE FOUNDATION PLAN FOR TOP OF FTG. ELEV.
FLASHING
@ 48" O.C. ALTERNATE - GROUT REINF. CELLS
HORIZ. JOINT REINF. @ 16" O.C.
FINISH GRADE HEIGHT VARIES
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM
STEP FTG., SEE DETAIL

CONCRETE BLOCK FOUNDATION WALLS

CONCRETE BLOCK FOUNDATION WALLS

DETAIL DATA CHECKLIST

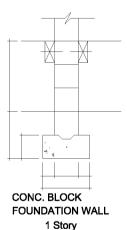
CONCRETE BLOCK FOUNDATION WALLS

Design limits of unit masonry wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

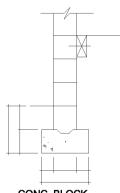
Unless specially engineered, concrete block foundation walls should be limited to small, one-story residential or utility buildings.



CONC. BLOCK FOUNDATION WALL 1 Story



CONC. BLOCK FOUNDATION WALL 1 Story



CONC. BLOCK FOUNDATION WALL 1 Story

NOTATION CHECKLIST, SAMPLE NOTES

MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
LEDGER
ANCHOR FOR LEDGER
GROUTED CONCRETE BLOCK
FOUNDATION WALL REINFORCING
CONCRETE FOOTING WIGROUT KEY
CONCRETE FOOTING REINFORCING BARS
INSULATION
TERMITE SHIELD
CRAWLSPACE
RODENT BARRIER
VAPOR BARRIER W/ SAND COVER
GRADE
DRAINAGE

8" CONCRETE BLOCK
CONC. SLAB
SEE FOUNDATION PLAN FOR SLAB THICKNESS
& FIN, FLOOR ELEV.
SEE FOUNDATION PLAN FOR TOP OF FTG. ELEV.
FLASHING
#4 @ 48" O.C. ALTERNATE - GROUT REINF. CELLS
HORIZ. JOINT REINF. @ 16" O.C.
FINISH GRADE HEIGHT VARIES
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM

CONCRETE BLOCK FOUNDATION WALLS

CONCRETE BLOCK FOUNDATION WALLS

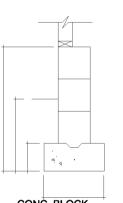
DETAIL DATA CHECKLIST

CONCRETE BLOCK FOUNDATION WALLS

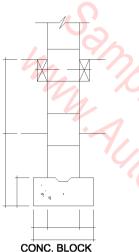
Design limits of unit masonry wall types, thickness and heights are strictly Design limits of unit masonly wall types, trickness and neights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Unless specially engineered, concrete block foundation walls should be limited to small, one-story residential or utility buildings.

CONC. BLOCK FOUNDATION WALL 2 Story



CONC. BLOCK **FOUNDATION WALL** 2 Story

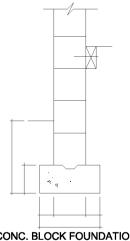


FOUNDATION WALL 2 Story

NOTATION CHECKLIST, SAMPLE NOTES

MUDSILL W/LEVELING GROUT
ANCHOR BOLTS
LEDGER
ANCHOR FOR LEDGER
GROUTED CONCRETE BLOCK
FOUNDATION WALL REINFORCING
CONCRETE FOOTING WIGROUT KEY
CONCRETE FOOTING REINFORCING BARS
INSULATION
TERMITE SHIELD
CRAWLSPACE
RODENT BARRIER
VAPOR BARRIER W/SAND COVER
GRADE ARA, DRAIN. GRADE DRAINAGE

8" CONCRETE BLOCK
12" CONCRETE BLOCK
12" CONCRETE BLOCK
CONC. SLAB
SEE FOUNDATION PLAN FOR SLAB THICKNESS
& FIN. FLOOR ELEV.
SEE FOUNDATION PLAN FOR TOP OF FTG. ELEV.
FLASHING
#4 @ 48" O.C. ALTERNATE - GROUT REINF. CELLS
HORIZ. JOINT REINF. @ 16" O.C.
FINISH GRADE HEIGHT VARIES
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM BOND BEAM



CONC. BLOCK FOUNDATION WALL 2 Story

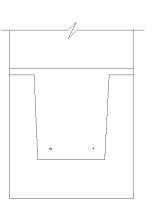
CONC. BLOCK FOUNDATION WALL

Basement

CONCRETE BLOCK WALLS

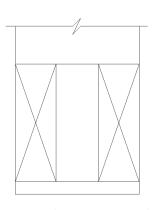
CONCRETE BLOCK WALLS

VERTICAL SECTION (8" HMU WALL)



LINTEL (8" HMU WALL)





HMU WALL)

LINTEL (8" HMU WALL)

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related
construction such as door frames, window frames, furred walls,
wall mounted fixtures, and wall penetrations such as for
pipe sleeves, access panels, etc.

Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

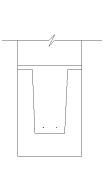
NOTATION CHECKLIST, SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
INTERIOR FURRING/FINISH
DOOR/WINDOW/LOUVER FRAME
LINTEL

8" CONCRETE BLOCK, GROUT CORES FULL & BREAK OUT WEB AS REQ'D. FOR #4 BAR VERT. 8" LINTEL BLOCK
CONC. BLOCK
FLASHING
SEALANT
CAULK
#4 @ 48" O.C. ALTERNATE - GROUT REINF. CELLS
#4 VERT. REINFORCEMENT @ 2'-0" O.C.
HORIZ. JOINT REINF. @ 16" O.C.
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM W/#5 CONT. @ 32" O.C.
#4 CONT. IN BOND BEAM
SASH BLOCK - EACH SIDE
16 GA. STEEL MESH EVERY OTHER COURSE
(@ masonry interior partition joint)
INSULATION
DISCONTINUE MASONRY REINF. @ CONTROL JOINT
EXPANSION SHIELD

CONCRETE BLOCK WALLS

CONCRETE BLOCK WALLS





DETAIL DATA CHECKLIST

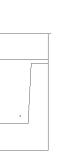
BRICK AND CONCRETE BLOCK WALLS
These wall section details are to be combined with related
construction such as door frames, window frames, furred walls,
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pipe sleeves, access panels, etc.

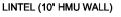
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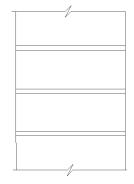
Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

LINTEL (6" HMU WALL)









VERTICAL SECTION (10" HMU WALL)

CONCRETE BLOCK WALLS

NOTATION CHECKLIST, SAMPLE NOTES

MASONRY UNIT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
MORTAR JOINT TYPE & SIZE
REINFORCING
HOOKS/TRACKS/WALL-MOUNTED FIXTURES
THRU-WALL SLEEVES
FLASHING/WATERPROOFING/CAULKING
INTERIOR FURRING/FINISH
DOORWINDOWLOUVER FRAME
LINTEL
8" CONCRETE BLOCK, GROUT CORES FULL &
BREAK OUT WEB AS REQ'D. FOR #4 BAR VERT.
8" LINTEL BLOCK
CONC. BLOCK
CONC. BLOCK
FLASHING
SEALANT
CAULK
#4 Ø 48" O.C. ALTERNATE - GROUT REINF. CELLS
#4 VERT. REINFORCEMENT @ 2"0" O.C.
1/2" PREMOLDED JOINT FILLER
EXTRUDED CONTROL JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM W/#S CONT. @ 32" O.C.
#4 CONT. IN BOND BEAM
SASH BLOCK - FACH SIDE
16 GA. STEEL MESH EVERY OTHER COURSE
(@ masonry interior partition joint)
INSULATION
DISCONTINUE MASONRY REINF. @ CONTROL JOINT
EXPANSION SHIELD

4" CMU
6" CMU
6" CMU
12" CMU
12" CMU
12" CMU
12" CMU
8" CMU, GROUT CORES FULL & BREAK OUT WEB
AS REQ'D. FOR #4 BAR VERT
8" LINTEL BLOCK
CONC. BLOCK
CONC. BLOCK
SEE FOUNDATION PLAN FOR SLAB THICKNESS
& FIN. FLOOR ELEV.
FLASHING
SEALANT
#4 @ 48" O.C. ALTERNATE - GROUT REINF. CELLS
HORIZ. JOINT REINF. @ 16" O.C.
1/2" PREMOLDED JOINT FILLER
FACE BRICK
1" PERIMETER INSULATION
BOND BEAM W/#5 CONT. @ 32" O.C.
#4 CONT. IN BOND BEAM
EXTRUDED CONTROL JOINT FILLER
SASH BLOCK - EACH SIDE
16 GA. STIEL MESH EVERY OTHER COURSE
(@ masonry interior partition joint)
CAULK
SEMI-RIGID INSULATION
DISCONTINUE MASONRY REINF. @ CONTROL

DISCONTINUE MASONRY REINF. @ CONTROL DISCONTINUE MASONRY REINF. @ CONTROL
JOINT
EXPANSION SHIELD
#4 VERT. @ 2-0" O.C., GROUT CELLS WHERE
REBAR OCCURS
#4 DOWEL @ 2-0" O.C. W/ 4" HOOK @ BOTTOM
#4 VERT. REINFORCEMENT @ 2'-0" O.C.
WETAL CLOSURE REQ'D. @ EXPOSED DECK ONLY
STUFF CAP W/ FIBERGLASS BLANKET INSUL.

CONCRETE CURB



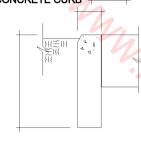


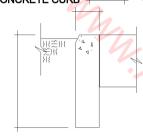




CONCRETE CURB

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CONCRETE CURB



CONCRETE CURB

CONCRETE CURBS

DETAIL DATA CHECKLIST

CONCRETE CURBS
_Street curbs must usually follow local road department design standards
_Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius __Precast concrete curbs may have dowel pins and holes at alternate ends _2-#4 bars, one top and one bottom (continuous is common) May have #3 ties or stirrups at 32" to 36" o.c. _may have #3 ties or surrups at 3.2 to 35 d.c.
2 bars at the bottom of the footing may be needed
_Bars should have 2" cover
When curb is continuous w/walk, woven wire mesh (WWM) may be turned down into curb
_Curb depth below grade varies from 12" to 24"
_Curb width varies from 5" to 7" _Compact the subgrade _Provide ample subgrade drainage Expansion Joints: _Two types needed: __Joints in the curb itself Joints between curb and adjacent sidewalk Curb joints should occur at approximately 15' intervals and at all corners Provide 1/4" radius at edge of joints

NOTATION CHECKLIST, SAMPLE NOTES

SAMPLE NOTES
CURB (TYPE & MATERIAL)
REINFORCING
FINISH GRADE/PAVEMENT
CURB SLOPE/RADII/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)
FINISH GRADE
TOP OF CURB
PAVEMENT
CONCRETE
3/4" RADIUS ON ALL EXPOSED EDGES
11/2" RADIUS EDGE
CONCRETE
REBARS, CONT. TOP & BOTTOM; 2" MIN. COVER 2 CADDORANIS. NOX

1/2" preformed expansion joint, held down 1" for sealant on top
Heartwood redwood filler strip pour joint

CONC. SIDEWALK
CRUSHED AGGREGATE BASE
6" X 6" - 10 GAGE WIRE MESH
CAULK
JOINT SEALER
EXPANSION JOINT
1/2" EXPANSION JOINT MATERIAL
BITUMINOUS EXP. JOINT FILLER
RADIUS
3-#4 BARS CONT.
2-#5 REBARS CONT.
BITUMINOUS PAVING
COMPACTED GRANULAR BASE COURSE
COMPACTED SUBGRADE OR STRUCTURAL
BACKFILL
2" DIA. DRAIN PIPE THRU CURB

CONCRETE CURB & WALK



CONCRETE CURB & WALK



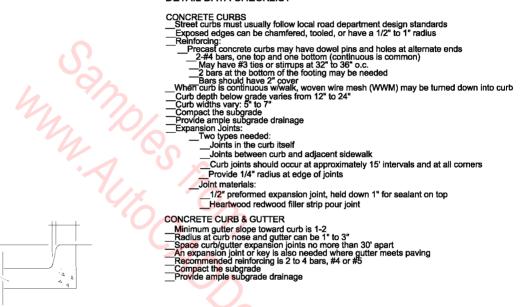
CONCRETE CURB & GUTTER

CONCRETE CURB & GUTTER

CONCRETE CURB & GUTTER

CONCRETE CURBS

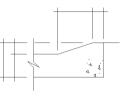
DETAIL DATA CHECKLIST



NOTATION CHECKLIST, SAMPLE NOTES

CURB (TYPE & MATERIAL)
REINFORCING
FINISH GRADE/PAVEMENT
CURB SLOPE/RADII/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)
FINISH GRADE
TOP OF CURB
PAVEMENT
CONCRETE
3/4" RADIUS ON ALL EXPOSED EDGES
1/2" RADIUS EDGE
CONCRETE
REBARS, CONT. TOP & BOTTOM, 2" MIN. COVER
CONC. SIDEWALK
CRUSHED AGGREGATE BASE CRUSHED AGGREGATE BASE 6" X 6" - #10 GAUGE WIRE MESH

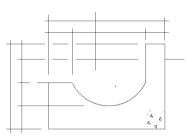
CAULK
JOINT SEALER
EXPANSION JOINT
1/2" EXPANSION JOINT MATERIAL
BITUMINOUS EXP. JOINT FILLER
RADIUS
3-#4 BARS CONT.
2-#5 REBARS CONT.
BITUMINOUS PAVING
COMPACTED GRANULAR BASE COURSE
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL





CONCRETE CURB & GUTTER lowa Curb

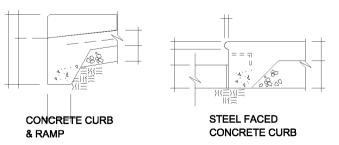
CONCRETE CURB & GUTTER Rolled Curb



CONCRETE CURB & GUTTER W/Swale



DROPPED CONCRETE CURB & RAMP



CONCRETE CURBS

DETAIL DATA CHECKLIST CONCRETE CURBS Street curbs must usually follow local road department design standards Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius Reinforcing: Precast concrete curbs may have dowel pins and holes at alternate ends _2-#4 bars, one top and one bottom (continuous is common) May have #3 ties or stirrups at 32" to 36" o.c. 2 bars at the bottom of the footing may be needed Bars should have 2" cover When curb is continuous w/walk, woven wire mesh (WWM) may be turned down into curb Curb depth below grade varies from 12" to 24" Curb width varies from 5" to 7" Compact the subgrade Provide ample subgrade drainage Expansion Joints: Two types needed: __Joints in the curb itself __Provide 1/4" radius at edge of joints Joints between curb and adjacent sidewalk ____Curb joints should occur at approximately 15' intervals and at all corners Joint materials: 1/2" preformed expansion joint, held down 1" for sealant on top Heartwood redwood filler strip pour joint CONCRETE CURB & GUTTER ONCRETE CURB & GUTTER Minimum gutter slope toward curb is 1-2 Radius at curb nose and gutter can be 1" to 3" Space curb/gutter expansion joints no more than 30' apart An expansion joint or key is also needed where gutter meets paving Recommended reinforcing is 2 to 4 bars, #4 or #5 Compact the subgrade Provide ample subgrade drainage CONCRETE PAVING Recommended thicknesses for concrete slabs are: _4" for walks, patios, and drives _5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic _Pour slab over a gravel base 4" to 8" thick, depending on thickness of concrete and nature of soil _Slope_surface of slab 2 or 1/4" per lin. foot minimum Surface treatments: __To reduce slipperiness: __Broom finish Spread abrasive grains on wet concrete _To achieve exposed aggregate surface: Sandblast Finish top slab with light water spray before curing and brushing Reinforce slab with 4x4x4/4 or 6x6x10/10 woven wire mesh (WWM) Provide 2" cover over the reinforcing Expansion Joints: __Placement varies with climate Average 30' o.c. in walks 15' to 20' squares in larger areas of concrete Dowelling1/2" to 1" diameter dowel in sleeve, graphite coated; 12" to 24" long, 12" to 36" o.c. Gap in slab filled with premolded or poured joint filler Control Joints: Can be tooled or saw cut _1/8" thick nonferrous strip, or poured joint filler Joint must be 1/4th of the depth of the slab to be effective

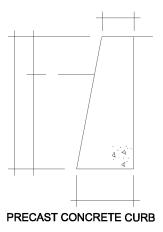
NOTATION CHECKLIST,
SAMPLE NOTES
CURB (TYPE & MATERIAL)
REINFORCING
FINISH GRADE/PAVEMENT
CURB SLOPE/RADII/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)
FINISH GRADE
TOP OF CURB
PAVEMENT
CONCRETE
3/4" RADIUS ON ALL EXPOSED EDGES
1/2" RADIUS EDGE
CONCRETE

REBARS, CONT. TOP & BOTTOM, @" MIN. COVER CONC. SIDEWALK CRUSHED AGGREGATE BASE 6" X 6" - #10 GAUGE WIRE MESH CAULK JOINT SEALER EXPANSION JOINT MATERIAL BITUMINOUS EXP. JOINT FILLER RADIUS 3-#4 BARS CONT. BITUMINOUS PAVING COMPACTED GRANULAR BASE COURSE COMPACTED SUBGRADE OR STRUCTURAL BACKFILL 2" DIA. DRAIN PIPE THRU CURB

PRECAST CONCRETE CURB

4.4

PRECAST CONCRETE CURB



CONCRETE CURBS

DETAIL DATA CHECKLIST

CONCRETE CURBS

- Street curbs must usually follow local road department design standards
- Exposed edges can be chamfered, tooled, or have a 1/2" to 1" radius

Reinforcing:

- Precast concrete curbs may have dowel pins and holes at alternate ends
- 2.#4 bars, one top and one bottom (continuous is common) May have #3 ties or stirrups at 32" to 36" o.c.
- 2 bars at the bottom of the footing may be needed

Bars should have 2" cover

- When curb is continuous w/walk, woven wire mesh (WWM) may be turned down into curb
 - _Curb depth below grade varies from 12" to 24" _Curb width varies from 5" to 7"
- Compact the subgrade
- Provide ample subgrade drainage
- Expansion Joints:
- Two types needed:
 ___Joints in the curb itself
- __Joints between curb and adjacent sidewalk
- Curb joints should occur at approximately 15' intervals and at all corners Provide 1/4" radius at edge of joints

Joint materials:

- 1/2" preformed expansion joint, held down 1" for sealant on top
 Heartwood redwood filler strip pour joint

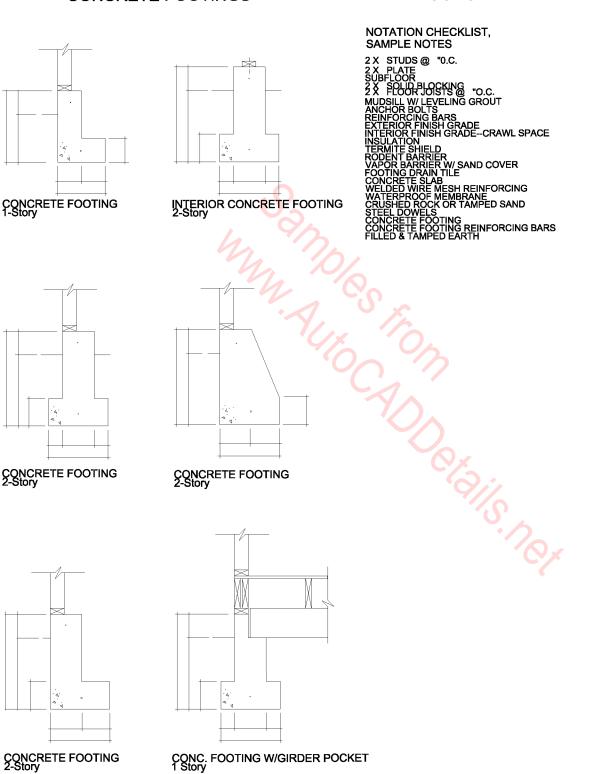
NOTATION CHECKLIST, SAMPLE NOTES

CURB (TYPE & MATERIAL)
REINFORCING
FINISH GRADE/PAVEMENT
CURB SLOPE/RADII/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)

FINISH GRADE
TOP OF CURB
PAVEMENT
CONCRETE
3/4" RADIUS ON ALL EXPOSED EDGES
1/2" RADIUS EDGE
CONCRETE
REBARS, CONT. TOP & BOTTOM, 2" MIN. COVER
CONC. SIDEWALK

CRUSHED AGGREGATE BASE
6" X 6" - 10 GAUGE WIRE MESH
CAULK
JOINT SEALER
EXPANSION JOINT
1/2" EXPANSION JOINT MATERIAL
BITUMINOUS EXP. JOINT FILLER
RADIUS
3 - #4 BARS CONT.
2 - #5 REBARS CONT.
BITUMINOUS PAVING
COMPACTED GRANULAR BASE COURSE
COMPACTED SUBGRADE OR STRUCTURAL
BACKFILL
2" DIA. DRAIN PIPE THRU CURB

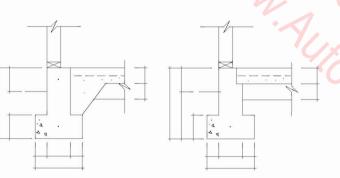
CONCRETE FOOTINGS



2" RIGID INSUL. (@foundation wall/grade beam)
DAMPROOFING (@foundation wall/grade beam)
#15 FELT (over fill surrounding drain title)
4" DRAIN TILE SLOPE1/8" PER 12"
POROUS GRANULAR FILL (typ. min.: 12" above, 6" below, & 6" on sides of drain title)
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
FINISH GRADE ELEV.
FINISH FLOOR ELEV.
GRADE BEAM
CONC. FIG. W/#4 REBARS @12"O.C. EA. WAY
1/4" LEVELING PLATE ON
3/4" NON-SHRINK GROUT
3/4" DIA. ANCHOR BOLTS 14" LONG
1/2" DIA. ANCHOR BOLTS 10" LONG
#3 TIES @ 10" O.C.
2 X 4 KEYWAY
PEDESTAL
BOTTOM OF FOOTING ELEV.
COLUMN CENTER LINE
CONCRETE PIER
4 X 4 POST OR 4 X 8 BEAM ON COL. BASE

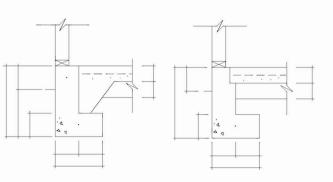
CONCRETE FOOTING W/ SLAB 1 Story

CONCRETE FOOTING W/SLAB 1 Story



CONCRETE FOOTING W/ SLAB 1 Story

CONCRETE FOOTING W/ SLAB 1 Story



CONCRETE FOOTING W/ SLAB 1 Story

CONCRETE FOOTING W/ SLAB 1 Story

CONCRETE FOOTINGS

DETAIL DATA CHECKLIST

FOOTINGS WITH SLAB FLOORS

I-shaped system
Two-pour system with foundation poured first and the slab afterward
Place joints at intersections between floor and wall plane
Interior bearing footings
Depth should match exterior footings
Avoid unbalanced, concentrated interior/exterior wall loads on soil
Interior nonbearing footings
Carry only the loads of walls above
Minimum thickness as required to accommodate anchor bolt--3" to 4"

cover each side

NOTATION CHECKLIST, SAMPLE NOTES

SAMPLE NOTES

2 X STUDS @ "0.C.

X PLATE
SUBFLOOR

X SOUD BLOCKING
X SOUD BLOCKING
AN FLOOK JOISTS @ "0.C.

MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE—CRAWL SPACE
INSUITATION

INTERIOR FINISH GROWN
INSULATION
TERMITE SHIELD
RODENT BARRIER
VAPOR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING
FILLED & TAMPED FARTH
CONC. SLAB, SEE PLAN FOR REINF. COMPACTED FILL
6" COMPACTED FILL
6" COMPACTED FILL
6" MIN. GRAVEL
REINFORCING BARS
CONT. ANGLES EMBEDDED IN SLAB

WANCHORS
VAPOR BARRIER
NEW COMPACTED FILL

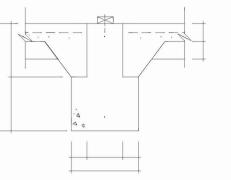
"CONC. SLAB WESSE #10/10 W.W.M.
FOR REINF.

"A @ 16" O.C. EACH WAY
FORMED METAL KEYED JOINT
1X2 SLAB FO.C.
18" SAWED JOINT, FILL W/ JOINT FILLER
1/4" X 1/4" SAWED EXP. CONTRACTION JOINT
1/2" ISOLATION JOINT W/ SEALER
1/2" ISOLATION JOINT W/ SEALER
1/2" ISOLATION JOINT W/ SEALER
1/3" PREFORMED EXP. JOINT, FILLER
1/3" BOF SLAB KEINF. @ JOINT.
FINISH FLOOR

STOP SLAB REINF. @ JOINT. FINISH FLOOR 1/2" PREMOLDED FILLER & SEALANT SEALANT CONTROL JOINT OR CONSTRUCTION JOINT 2 X 4 SOLE ON 30# FELT

2" RIGID INSUL (@foundation wall/grade beam)
DAMPROOFING (@foundation wall/grade beam)
#15 FELT (over fill surrounding drain tile)
#18 FELT (over fill surrounding drain tile)
MIN #12 RAG ROOFING FELT (over fill @drain)
4" PERFERATED PIPE, 1/8" PER FOOT
4" DRAIN TILE SLOPE 1/8" PER 1/2"
4" DRAIN TILE SLOPE 1/8" PER 1/2"
4" DRAIN TILE SLOPE 1/8" PER 1/2"
POUROUS GRANULAR FILL (typ. min.: 12" above,
6" below, 8 6" on sides of drain tile)
6" COMPACTED EARTH FILL
BACKFIL
FINISH GRADE ELEV.
FINISH GRADE ELEV.
FINISH FLOOR ELEV.
GRADE BEAM
CON.: F1G. W/#4@12"O.C. EA. WAY
1/4" LEVELING PLATE ON
3/4" NONSHRINK GROUT
BASE PLATE & LEVELING PLATE, SEE SCHED.
3/4" DIA ANCHOR BOLTS 14" LONG
#3 TIES @ 10" O.C.
#4 CONT.
2 X 4 KEYWAY
PEDESTAL
BOTTOM OF FOOTING EL
FOOTING, SEE PLAN FOR MARK / SEE
SCHED FOR SIZE & REINF.
COLUMN CENTER LINE
CONCRETE PIER
4 X 4 POST OR 4 X 8 BEAM ON COL. BASE

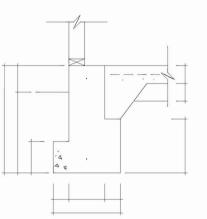
CONCRETE FOOTINGS



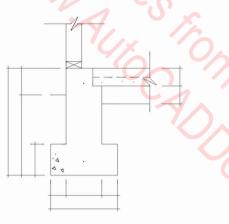
CONCRETE FOOTING W/ SLAB 2 Story



CONCRETE FOOTING W/ SLAB 2 Story

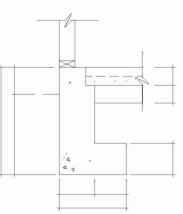


CONCRETE FOOTING W/ SLAB 2 Story



CONCRETE FOOTING W/ SLAB 2 Story





CONCRETE FOOTING W/ SLAB 2 Story

DETAIL DATA CHECKLIST

FOOTINGS WITH SLAB FLOORS

I-shaped system

Two-pour system with foundation poured first and the slab afterward
Place joints at intersections between floor and wall plane
Interior bearing footings
Depth should match exterior footings
Avoid unbalanced, concentrated interior/exterior wall loads on soil
Interior nonbearing footings
Carry only the loads of walls above
Minimum thickness as required to accommodate anchor bolt—3" to 4"

cover each side

NOTATION CHECKLIST

2 X STUDS @ "0.C.
2 X PLATE
SUBFLOOR
2 X PLOOR JOISTS @ "O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE—CRAWL SPACE
INSULATION
TERMITE SHIELD
RODENT BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
FILLED & TAMPED EARTH 2 X STUDS @ "0.C. Alls. nox

DETAIL DATA CHECKLIST

CONCRETE FOOTINGS

to 4" cover each side

) Otalls nor



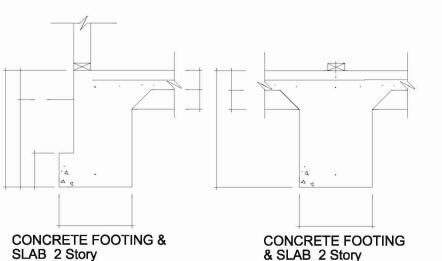
CONCRETE **FOOTING & SLAB** 1 Story

CONCRETE FOOTING & SLAB 2 Story

NOTATION CHECKLIST

2 X STUDS @ "0.C. 2 X FLOOR JOISTS @ "O.C. 2 X FLOOR JOISTS @ "O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE--CRAWL SPACE
INSULATION
TERMITE SHIELD
RODENT BARRIER
VAPOR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPED EARTH

CONCRETE FOOTING & SLAB 1 Story



CONCRETE FOOTINGS CONCRETE FOOTINGS NOTATION CHECKLIST 2 X STUDS @ "O.C. 2X PLATE SUBFLOOR 2X PLATE SUBFLOOR 2X FLOOR JOISTS @ "O.C. MUDSILL W/ LEVELING GROUT ANCHOR BOLTS REINFORCING BARS EXTERIOR FINISH GRADE INTERIOR FINISH GRADE—CRAWL SPACE INSUIT AT ION INSULATION TERMITE SHIELD RODENT BARRIER Ax form CONCRETE FOOTING CONCRETE FOOTING W/ SLAB 1 Story W/SLAB 1 Story CONCRETE FOOTING W/SLAB 1 Story CONCRETE FOOTING W/SLAB 2 Story

CONCRETE FOOTING W/SLAB 2 Story

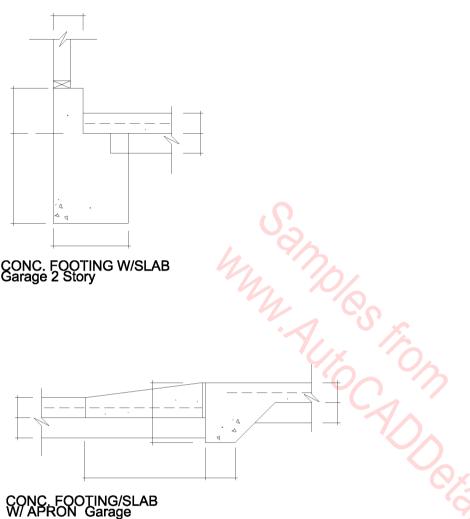
CONCRETE FOOTING W/SLAB 1 Story VAPOR BARRIER W/ SAND COVER FOOTING DRAIN TILE CONCRETE SLAB WELDED WIRE MESH REINFORCING WATERPROOF MEMBRANE CRUSHED ROCK OR TAMPED SAND STEEL DOWELS CONCRETE FOOTING CONCRETE FOOTING CONCRETE FOOTING REINFORCING BARS FILLED & TAMPED EARTH

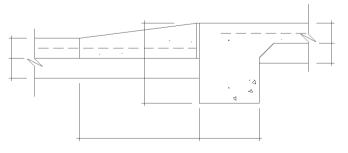
CONCRETE FOOTINGS **CONCRETE FOOTINGS** NOTATION CHECKLIST 2 X STUDS @ "O.C. 2 X PLATE SUBFLOOR 2 X PLOOR JOISIS @ "O.C. MUDSILL W/ LEVELING GROUT ANCHOR BOLTS REINFORCING BARS EXTERIOR FINISH GRADE INTERIOR FINISH GRADE INSULATION TERMITE SHIELD RODENT BARRIER CONCRETE FOOTING W/SLAB 2 Story CONCRETE FOOTING W/SLAB 2 Story STON ADDORATION CONC. FOOTING & SLAB Garage 1 Story CONC. FOOTING W/SLAB Garage 1 Story CONC. FOOTING & SLAB Garage 1 Story CONC. FOOTING & SLAB Garage 2 Story

VAPOR BARRIER W/ SAND COVER FOOTING DRAIN TILE CONCRETE SLAB WELDED WIRE MESH REINFORCING WATERPROOF MEMBRANE CRUSHED ROCK OR TAMPED SAND STEEL DOWELS CONCRETE FOOTING

CONCRETE FOOTING CONCRETE FOOTING REINFORCING BARS FILLED & TAMPED EARTH

CONCRETE FOOTINGS





CONC. FOOTING/SLAB W/APRON Garage

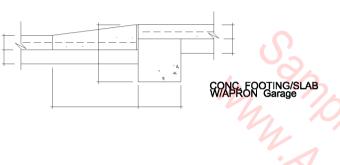
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DETAIL DATA CHECKLIST
                   GARAGE SLABS
5" or 6" thick instead of 4"
—Slope slab to garage door and apron or to floor drain
—Slope apron slab 1" to 3" to driveway
—Separate apron from driveway slab with 1/2" construction joint
            NOTATION CHECKLIST,
SAMPLE NOTES

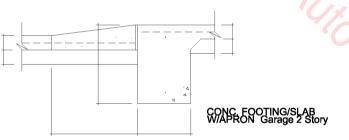
2 X STUDS @ "0.C.

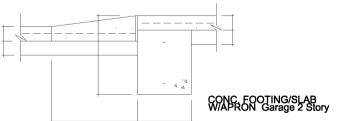
2 X PLATE
SUBFLOOR

2 X SOLID BLOCKING
2 X FLOOR JOISTS @ "0.C.

MUDSILL W LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE
INTERIOR FINISH GRADE
INTERIOR BARRIER
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
EILLED A TAMPED EARTH
2" RIGID INSUL (@foundation wall/grade beam)
DAMPROOFING (@foundation wall/grade beam)
#15 FELT (over fill surrounding drain tile)
4" DRAIN TILE SLOPE1/8" PER 12"
POROUS GRANULAR FILL (typ. min.: 12" above,
6" below, & 6" on sides of drain tile)
6" COMPACTED EARTH FILL
FINISH GRADE ELEV.
FINISH FLOOR ELEV.
GRADE BEAW
WHA REBARS @12"O.C. EA. WAY
114" LEVELING PLATE ON
34" NON-SHRINK GROUT
34" DIA. ANCHOR BOLTS 10" LONG
2 X 4 KEYWAY
PEDESTAL
BOTTOM OF FOOTING ELEV.
CONCRETE PIER
4 X 4 POST OR 4 X 8 BEAM ON COL BASE
CONC. SLAB, SEE PLANFOR REINF.
6" COMPACTED FILL
6" MIN, GRAVEL
4" CONC. SLAB WILL SEE PLANFOR REINF.
6" COMPACTED FILL
4" CONC. SLAB WILL SEE PLANFOR REINF.
6" COMPACTED FILL
4" CONC. SLAB, SEE PLONDATION PLANFOR REINF.
4" CONC. SLAB, SEE PLONDATION PLANFOR REINF.
4" OO.C. SLAB, SEE PLONDATION PLANFOR REINF.
4" OO.C. SLAB, SEE FOUNDATION PLANFOR REINF.
4" OO.C. SLAB, SEE FOUNDATION PLANFOR REINF.
4" OO.C. SLAB, SEE FOUNDATION PLANFOR REINF.
4" CONC. SLAB, SEE FOUNDATION PLANFOR REINF.
4" OO.C. SLAB, SEE FOUNDATION PLANFOR REINF.
4" OO.C. SLAB, SEE FOUNDATION PLANFOR REINF.
4" CONC. SLAB, SEE FOUNDATION PLANFOR REINF.
4" OO.C. SLABH, SEE FOUNDATION PLANFOR REINF.
          SAMPLE NOTES
          2 X STUDS @ "0.C.
      #4 @ 16" O.C. EACH WAY
FORMED METAL KEYED JOINT
1 X 2 SHEAR KEY
DOWELS X @ O.C.
1/8" SAWED JOINT, FILL W/ JOINT FILLER
1/4" X 1/4" SAWED EXP. CONTRACTION JOINT.
1/2" ISOLATION JOINT W/ SEALER
1/2" PREFORMED EXP. JOINT FILLER
CONTROL JOINT OR CONSTRUCTION JOINT
STOP SLAB REINF. @ JOINT.
FINISH FLOOR
SEALANT
2 X 4 SOLE ON 30
# FELT
SLOPE APRON TO DRAIN AT SIDE
```







CONCRETE FOOTINGS

DETAIL DATA CHECKLIST

GARACE SLABS
5" or 6" thick instead of 4"
Slope slab to garage door and apron or to floor drain
Slope apron slab 1" to 3" to driveway
Separate apron from driveway slab with 1/2" construction joint

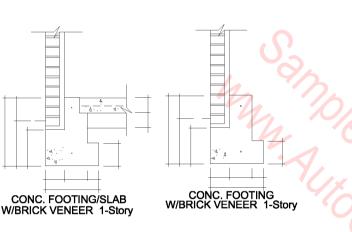
NOTATION CHECKLIST,
SAMPLE NOTES

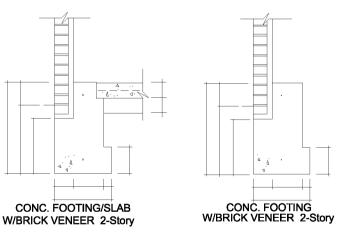
2 X STUDS @ "O.C.
2 X PLATE
SUBFLOOR
2 X SOLID BLOCKING
2 X SOLID BLOCKING
2 X SOLID BLOCKING
2 X FLOOR JOISS @ "O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR BARRIER
WADOR BARRIER
WATERPROOF MEMBRANE
CRUSHED COK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPED EARTH
2" RIGID INSUL. (@foundation wall/grade beam)
#15 FELT (over fill surrounding drain tile)
4" DRAIN TILE SLOPE!/8" PER 12"
POROUS GRANULAR FILL (typ. min.: 12" above,
6" below, & 6" on sides of drain tile)
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
GRADE BEAW
1/4" LEVELING PLATE ON
3/4" NON-SHRINK GROUT
3/4" DIA. ANCHOR BOLTS 14" LONG
1/3" DIA. ANCHOR BOLTS 10" LONG
1/4" TIES & 14" OR
2 X 4 KEYWAY
PEDESTAL

BOTTOM OF FOOTING EL.
COLLIAN CENTER LINE
CONCRETE PIER 4 X 8 BEAM ON COL BASE
CONC. SLAB. SEE PLAN FOR REINF.
6" COMPACTED FILL
8" MIN. GRAVE
REINFORCING BARS
CONT. ANGLES EMBEDDED IN SLAB W/ ANCHORS
VAPOR BARRIER
NEW COMPACTED FILL
4" CONC. SLAB W/6" 6" 10 W/W M.
6" CONCRETE SLAB W/6" 6" 10 W/W M.
6" CONCRETE SLAB W/6" 6" 10 W/W M.
6" CONTROL SLAB W/6" 6" 10 W/W M.
6" CONTROL SLAB REINF.
1/2" ISOLATION JOINT W/SEALER
CONTROL JOINT OR CONSTRUCTION JOINT
1/2" PREMOLDED FILLE & SEALANT
FINISH FLOOR
SEALANT
2 X 4 SOLE ON 30# FELT
SLOPE APRON TO DRAIN AT SIDE

CONCRETE FOOTINGS W/BRICK VENEER

CONCRETE FOOTINGS W/ BRICK VENEER





DETAIL DATA CHECKLIST FOOTINGS WITH MASONRY WALLS

- Considerations for developing a footing for a masonry wall:

 Weight being supported

 Soil condition
- NOTATION CHECKLIST.

SAMPLE NOTES

2 X STUDS (2)
2 X PLATE
SUBFLOOR
2 X SOUID BLOCKING
2 X STUDS (2)
2 X FLOOR SOLIS
2 X FLOOR SOLIS
3 MUDSILL W. LEVELING GROUT
ANCHOR BOLTS
REINFORCHING BARS
EINFORCHING BARS
EINFORCHING FINISH GRADE
EINFORCHING FINISH EINFORCHING FINISH EINFORCHING FINISH EINFORCHING FIN

TION E SHIELD T BARRIER BARRIER W/ SAND COVER IG DRAIN TILE

COTING DRAIN TILE
CONCRETE SLAB
VELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
RUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING
CONCRETE FOOTING BARS
FILLED & TAMPED EARTH

CONCRETE BLOCK. LIGHTWEIGHT CONC. BLOCK CE BRICK. BICK VENEER W/ METAL TIES TO STUD

BRIDA VELLES
WALL
WEEP HOLES
CONT, SEALANT
4" STARTER COURSE
CONT, FLASHING
FABRIC FLASHING SET IN REGLET

SHIM 5" X 3" X 1/4" CONT. SHELF ANGLE STEEL LINTEL ELEV. STEEL ANGLE LINTEL WEEP HOLES @ 32" O.C.

2" RIGID INSUL. (@foundation wall/grade beam)
DAMPROOFING (@foundation wall/grade beam)
#15 FELT (over fill surrounding drain tile)
#19 FELT (over fill surrounding drain tile)
#19 FELT (over fill surrounding drain tile)
#10 PAIN SLOPE TO OUT FOR DAYLIGHT
DRAIN THE SLOPE 18" PER 12"
POROUS GRANULAR FILL (typ. min.: 12" above,
6" below, & 6" on sides of drain tile)
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
FINISH FLOOR ELEV.
FOOTTOM OF FOOTING ELEV.
GRADE BEAM/WH4@12"O.C. EA. WAY
1/4" LEVELING PLATE ON
3/4" NON-SHRINK GROUT
BASE PLATE & LEVELING PLATE, SEE SCHED.
3/4" DIA ANCHOR BOLTS 14" LONG
#1 CONT. #3 TIES @ TO O.C.
#4 CONT.
2 X 4 KEYWAY
PEDESTAL
COLUMN CENTER LINE
CONCRETE PIER
4 X 4 POST OR 4 X 8 BEAM ON COL BASE
CONC. SLAB, SEE PLAN FOR REINF. 6" COMPACTED FILL 6" MIN. GRAVEL REINFORCING BARS REINFORCING BARS
CONT. ANGLES EMBEDDED IN SLAB W/ ANCHO
VAPOR BARRIER
NEW COMPACTED FILL

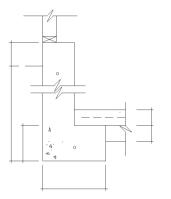
8" CONC. SLAB W. EXE #10 W.W.M.
8" CONC. SLAB W. EXE FOUNDATION PLAN FOR

83 PINFO.C.
#4 @ 16" O.C. EACH WAY
FORMED METAL KEYED JOINT
1X 2 STEAR KEY
DOWNELS X @ O.C.
1/8" SAWED JOINT, FILL W/ JOINT FILLER
1/4" X 1/4" SAWED EXP. CONTRACTION JOINT.
1/2" ISOLATION JOINT W/ SEALER
1/2" PREFORMED EXP. JOINT FILLER
1/2" PREFORMED EXP. JOINT FILLER
1/2" PREMOLDED FILLER & SEALANT
CONTROL JOINT OR CONTRACTION JOINT
STOP SLAB KEINF. @ JOINT.
FINISH FLOOR
SEALANT
2 X 4 SOLE ON 30# FELT EMBEDDED IN SLAB W/ ANCHORS

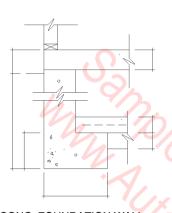
2" RIGID INSUL.(@foundation wall/grade beam)

CONCRETE FOUNDATION WALLS

CONCRETE FOUNDATION WALLS



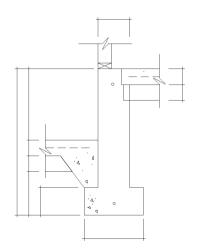
CONC. FOUNDATION WALL **Basement**



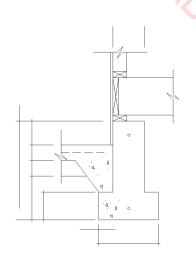
CONC. FOUNDATION WALL Basement/Slab 1st. Fl.

NOTATION CHECKLIST, SAMPLE NOTES SAMPLE NOTES
2X STUDS @ "O.C.
2X PLATE
SUBFLOOR
2X FLOOR JOISTS @ "O.C.
MUDSILL W. LEVELING GROUT
ANCHOR BOLTS
CONCRETE FOUNDATION WALL
NAII FR R TRUCTION JOINT RUC HON JOINT
DOWELS
DWELS
DWIRE MESH REINFORCING
PROOF MEMBRANE
IED ROCK OR TAMPED SAND
RETE FOOTING
RETE FOOTING
RETE FOOTING REINFORCING BARS
FILLED & TAMPED EARTH
VAPOR BARRIER W/SAND COVER
FOOTING DRAIN TILE

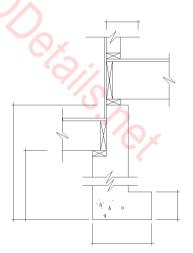
2" RIGID INSUL. (@ foundation wall)
DAMPROOFING (@ foundation wall)
#15 FELT (over fill surrounding drain tile)
4" PERFORATED PIPE, 1/8" PER FOOT MIN. SLOPE
4" DRAIN TILE, SLOPE1/8" PER 12"
POROUS GRANULAR FILL
6" COMPACTED EARTH FILL
BACKFILL
FINISH GRADE ELEV.
FINISH GRADE ELEV.
FINISH ELOGR #4 REBARS @ 12"O.C. EA. WAY.
2 X 4 KEYWAY
BOTTOM OF FOOTING ELEV.
FOOTING SEE PLAN FOR MARK / SEE
#5 @ 7" O.C. VERT. EXTEND THRU PIERS
PROVIDE CORNER BARS @ ALL EXT. & INT.
CORNERS CORNERS
CONCRETE FOUNDATION WALL
DBL 2 X 6 TOP PLATE
2 Y 6 WATERSTOP FRY BY CONSTRUCTION JOINT
SEE SPECS FOR WATERPROOFING



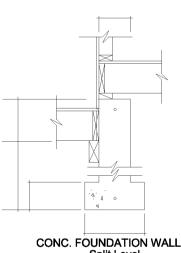
CONC. FOUNDATION WALL Split Level



CONC. FOUNDATION WALL Split Level



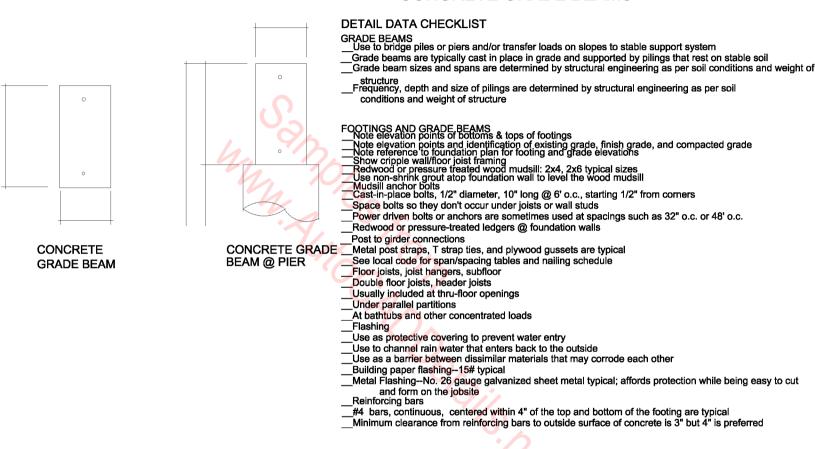
CONC. FOUNDATION WALL Split Level



Split Level

CONCRETE GRADE BEAMS

CONCRETE GRADE BEAMS

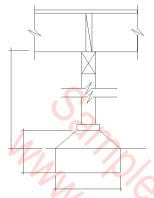


NOTATION CHECKLIST, SAMPLE NOTES

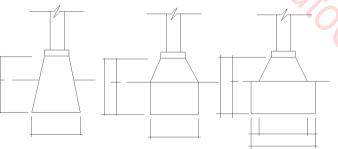
CRIPPLE WALL
2X STUDS @ "O.C.
2X MUD SILL W/ LEVELING GROUT
ANCHOR BOLTS
CONCRETE GRADE BEAM
REINFORCING BARS
INSULATION
FINISH GRADE
EXISTING GRADE
CONCRETE PIER W/ STEEL DOWEL
TERMITE SHIELD
CRAWL SPACE
RODENT BARRIER
VAPOR BARRIER
VAPOR BARRIER
DRAIN TILE

CONCRETE PIERS



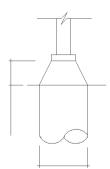


CONCRETE PIER W/FLOOR FRAMING

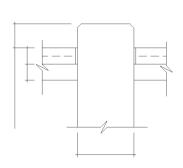


CONCRETE PIER W/POST CONCRETE **PIER** W/POST

CONCRETE PIER W/POST







CONCRETE PIER @ SLAB

CONCRETE PIERS

DETAIL DATA CHECKLIST

CONCRETE PIERS

- Pier sizes:

 14"x14" typical for single-story residential work

 16"X16" typical for two-story

 Pier typically with lower square base and upper truncated pyramid shape

 Truncated portion usually precast

 Base portion may be precast or poured on site below grade

 If wood post exceeds 2' in height, lateral bracing may be needed

- Redwood or pressure-treated wood cap atop pier:2x6x6 or 2x8x8 cap is typical as nailer
- Redwood or pressure-treated wood cap atop plet 2x0x of 2x0x dap is typical as fairlier size. Redwood or pressure-treated wood post girder support: 6x6 or 8x8 is typical as per girder size. If using non-rot resistant wood posts, add non-corrosive metal barrier to protect base of post. Steel dowel at pier and post recommended where building subject to lateral loads. Post to girder connection: Metal post straps, T strap ties, and plywood gussets are typical.

- Girders provide intermediate supports to reduce span of floor joists
- Girders typically supported by wood posts on concrete piers

 Codes typically require wood girders to be minimum 12" above grade
- Typical residential girder size is 4 x 6

NOTATION CHECKLIST,

SAMPLE NOTES

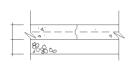
- 2 X FLOOR JOISTS @ "O.C. 2 X FLOOR JOIS X GIRDER X POST WOOD PIER CAP STEEL DOWNLD

- CONCRETE PIER
 TERMITE SHIELD
 CRAWL SPACE
 RODENT BARRIER
 VAPOR BARRIER W/ SAND

- GRADE STEEL COLUMN 1" GROUT BOTTOM/BASE PLATE ELEV. TOP CONC. ELEV. FINSH FLOOR ELEV. PIER, SEE SCHEDULE

- PIER, SEE SCHEDULE
 REBARS, FOR SIZE & NUMBER SEE SCHEDULE
 BOWLLS, SEE SCHEDULE
 BOTTOM/FOOTING ELEV., SEE SCHEDULE
 FOOTING SIZE VARIES: SEE PLAN
 SEE SCHEDULE FOR SIZE,
 ANCHOR BOLTS
 TOP OF PIER ELEV.

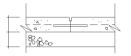
CONCRETE SLABS ON GRADE

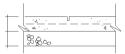




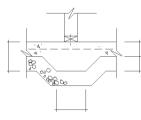
CONCRETE SLAB ON GRADE CONCRETE SLAB ON GRADE T & G Joint

Butt Jt.





CONCRETE SLAB ON GRADE Construction Joint



CONCRETE SLAB & FOOTING

CONCRETE SLAB ON GRADE **Control Joint**



CONCRETE SLAB ON GRADE

CONCRETE SLABS ON GRADE

DETAIL DATA CHECKLIST

CONCRETE SLASS & FOOTINGS
Slab on grade & reinforcing
Light frame buildings typically have a 4" thick slab w/ 6"x6" #10 welded wire mesh
Larger buildings slabs are 6" and thicker as required by floor loads and soil conditions

Typically 4" of crushed rock over undisturbed earth

- Typically 4" of crushed rock over undisturbed earth
 Tamp or otherwise compact loose soil as per engineer's recommendation
 Add a layer of polyethelene over the rock sub-base to prevent excessive loss of water from the slab concrete mix
 Slab control joints
 Typically tool-cut to 1/3rd slab depth every 20' both ways to direct and control cracks
 Provide control joints around piers and columns
 Slab construction joints
 Typically required at 20' to 30' max. both ways and at intersections with other construction
 Doweled joints
 For recomment joints, use graphite or other lubrication at one end for a bond break that facilitates free expansion.

- __For movement joints, use graphite or other lubrication at one end for a bond break that facilitates free expansion
- and contraction use dowels to connect two different pours of concrete
- Size and space dowels as per engineer's recommendations
 Put short rods into first slab and leave exposed for second adjacent pour

- Put snort rous into instead and issue and sast a

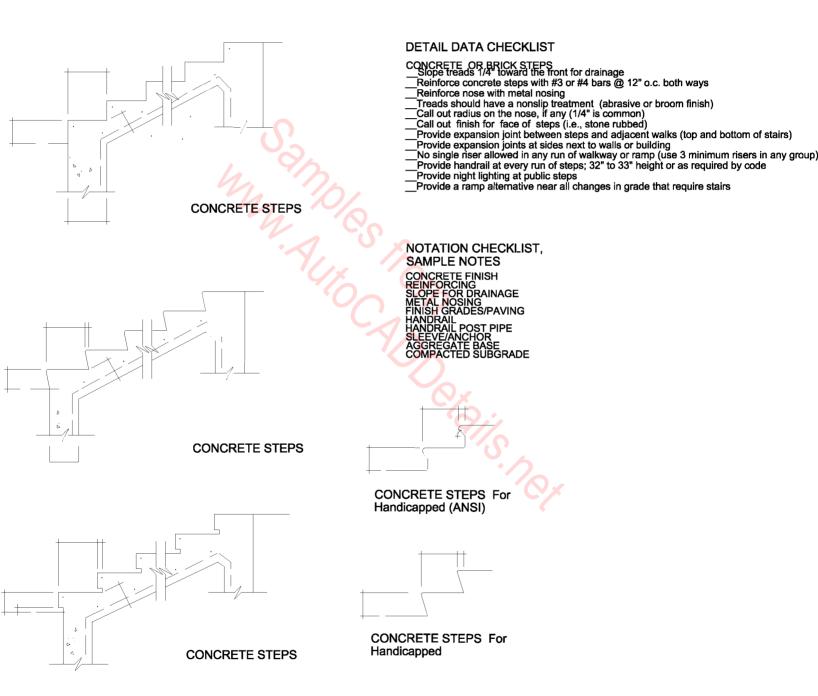
NOTATION CHECKLIST, SAMPLE NOTES

IOINT-CONTROL/CONSTRUCTION/EXPANSION CONCRETE SLAB WELDED WIRE MESH REINFORCING STREEL DOWEL CONNECTORS WATERPROOF MEMBRANE SRUSHED ROCK OR TAMPED SAND FILLED & TAMPED EARTH

CONC. SLAB, SEE PLAN FOR REINF. 6" COMPACTED FILL 6" MIN. GRAVEL BARS EMBEDDED IN SLAB W/ ANCHORS CONC: SLAB W 6X6-#10 W W M CONC: SLAB SEE FOUNDATION PLAN FOR 6" CONC. SLAB, SEE FOUNDATION PLAN FOR REINF, #3 @ 16" O.C. EACH WAY FORMED METAL KEYED JOINT 1X.2SHEAR KEY O.C. 1/8" SAWED JOINT, FILL W, JOINT FILLER 1/4" X 1/4" SAWED EXP. CONTRACTION JOINT. 1/2" ISOLATION JOINT W/ SEALER 1/2" PREFORMED EXP. JOINT FILLER CONTROL JOINT ON STOP SLAB REINF. @ JOINT. FINISH FLOOR SEALANT 2 X 4 SOLE ON 30# FELT

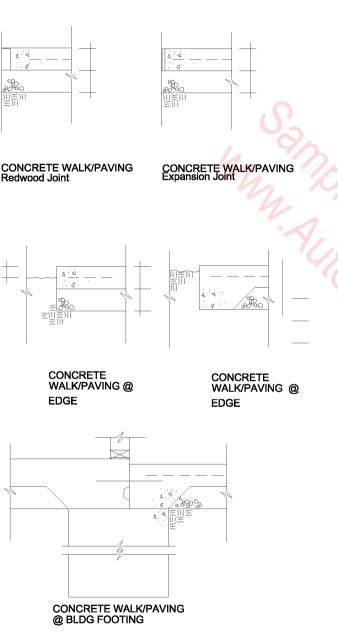
CONCRETE STEPS

CONCRETE STEPS



CONCRETE WALKS & PAVING

CONCRETE WALKS & PAVING



DETAIL DATA CHECKLIST CONCRETE PAVING
Recommended thicknesses for concrete slabs are:

4" for walks, patios, and drives
5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic Pour slab over a gravel base 4" to 8" thick, depending on thickness of concrete and nature of soil Slope surface of slab 2 or 1/4" per lin. foot minimum Surface treatments: . To reduce slipperiness: Broom finish Spread abrasive grains on wet concrete To achieve exposed aggregate surface: Finish top slab with light water spray before curing and brushing Reinforce slab with 4x4x4/4 or 6x6x10/10 woven wire mesh (WWM) Provide 2" cover over the reinforcing Expansion Joints:
Gap in slab filled with premolded or poured joint filler
Placement varies with climate Average 30' o.c. in walks

15' to 20' squares in larger areas of concrete

Dowelling 1/2" to 1" diameter dowel in sleeve, graphite coated; 12" to 24" long, 12" to 36" o.c..

Control Joints: Con be tooled or saw cut

1/8" thick nonferrous strip, or poured joint filler

Joint must be 1/4 of the depth of the slab to be effective

Edges of slab at joint should have1/8" radius Joints may be dowelled (as above), without sleeve **CONCRETE & GUTTERS** Minimum gutter slope toward curb is 1 to 2
Radius at curb nose and gutter can be 1" to 3"
Space curb/gutter expansion joints no more than 30' apart
An expansion joint or key is also needed where gutter meets paving
Recommended reinforcing is 2 to 4 bars; #4 or #5 Compact the subgrade Provide ample subgrade drainage NOTATION CHECKLIST, SAMPLE NOTES SEALANT & JOINT FILLER ROD FILLER BOARD 3/4" to 1" typ.) X 18" DOWEL BARS PAVING (TYPE, MATERIAL & FINISH)

MPLE NOTES

/ING (TYPE, MATERIAL & FINISH)

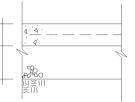
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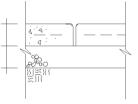
SH GRADE

SH GRA

CONCRETE WALKS & PAVING

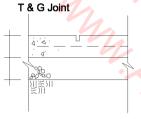


CONCRETE WALK/PAVING

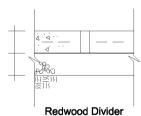


CONCRETE WALK/PAVING Butt Joint

CONCRETE WALK/PAVING



CONCRETE WALK/PAVING Control Joint



CONCRETE WALKS & PAVING

NOTATION CHECKLIST.

Compact th<mark>e subgrade</mark> Provide ample su<mark>bgrad</mark>e drainage

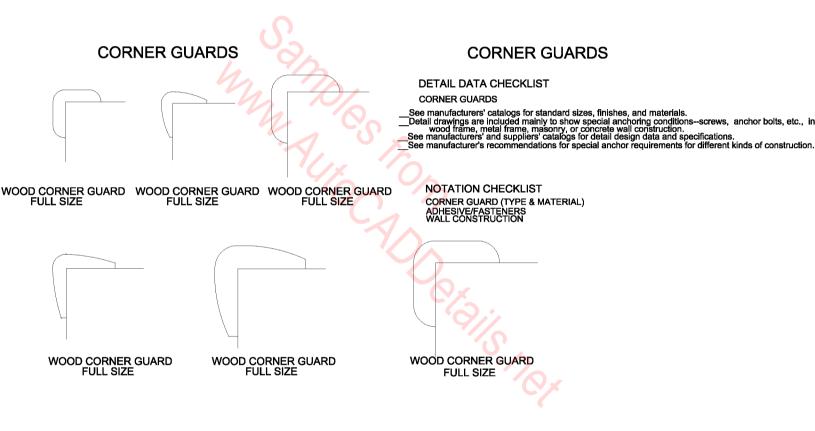
SAMPLE NOTES

PAVING (TYPE, MATERIAL & FINISH)
SLOPE
REINFORCING
EINSH GRAPANSION JOINTS (TYPE & SPACING)
AGGREGATE BASE
COMPACTED SUBGRADE
ORIGINAL GRADE
FINISH GRADE
FINISH GRADE
FINISH GRADE
FINISH GRADE
FOUNDE CROWN IN CENTER FOR DRAINAGE
SLOPE 14" PER FOOT TYP.
CONC. SLAB W. 8 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 8 X 6 - 10 GAUGE WIRE MESH
CONC. WALK W/ 6 X 6 10/10 W.W. M.
RED YOOD HEART WOOD, JOINT FILLER STRIP
TOOLED JOINT & @ 60 TO.C.
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD
JOINT FILLER POARD 18" DOWEL BARS
12" OC. ACROSS SLAB
12" OC. CACROSS SLAB

EXPANSION JOINT FILLER MATERIAL @ 16" O.C. MAX. GALV. METAL KEYWAY W/ EDGE EXPOSED GALV. O.C. TYP. PAVING BRICKS IN SETTING BED SLOPE TO DRAIN AS INDICATED ON PLANS BRICK ROW! OSC PAVER SLAB REINF. SEE YAPOR BARRIER COMPACTED GRANULAR FILL 4" PEA GRAVEL SAND CUSHION COMPACTED EARTH FILL AS REQ'D. COMPACTED EARTH FILL AS REQ'D. COMPACTED SUBGRADE OR STRUCTURAL BACKTISTED SUBGRADE OR STRUCTURAL BACKTISTED AGGRAGATE BASE (@ 6" conc. paving) 6" CRUSHED AGGRAGATE BASE (@ 6" conc. paving) 6" CRUSHED AGGRAGATE BASE (@ 6" conc. paving)

CORNER GUARDS CORNER GUARDS DETAIL DATA CHECKLIST **CORNER GUARDS** See manufacturers' catalogs for standard sizes, finishes, and materials. Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction. See manufacturers' and suppliers' catalogs for detail design data and specifications. See manufacturer's recommendations for special anchor requirements for different kinds of construction. NOTATION CHECKLIST CORNER GUARD (TYPE & MATERIAL) ADHESIVE/FASTENERS WALL CONSTRUCTION CORNER GUARD Flush Mounted WALL GUARD CORNER GUARD Flush Mounted CORNER GUARD Surface Mounted CORNER GUARD Flush Mounted WALL GUARD Flush Mounted

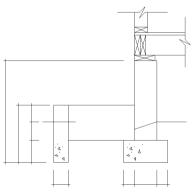
CORNER GUARD Surface Mounted



CRAWL SPACE ACCESS & CONC. FOOTINGS

CONCRE. FOOTING 1-Story INTERIOR CONCRETE **FOOTING 1-Story**





FOUNDATION CRAWL SPACE ACCESS/AREAWAY 1 Story

CRAWL SPACE ACCESS & CONC. FOOTINGS

DETAIL DATA CHECKLIST

CRAWL SPACE Crawl space & access

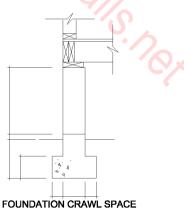
- 24"x18" access is typical with continuous footing below and double joists or header above
- In wet soil areas, provide vapor barrier with sand cover over soil to block ground water evaporation.

 In areas infested with rodents, apply a 1" to 2" layer of mesh-reinforced cement on ground.
- Typical crawl space ventilation
- Add termite shields and/or other insect barriers as required by local conditions
- _____16" x 8" screen or louver vents between joists Provide 2 sq. ft. of ventilation for each 25 sq. ft. of crawl space area
- Clearances to grade-typical minimum allowable distances:
- Provide one vent within 3' of each building corner Floor joists--minimum 18" to finish grade.
- Wood girders--minimum 12" to finish grade
- Exterior finish-minimum 8" to finish grade.
- Greater clearances are recommended to allow for soil build-ups during and after construction Provide greater clearances for special extra-moist conditions, regional insect infestation, etc.

NOTATION CHECKLIST, SAMPLE NOTES

SAMPLE NOTES

2 X STUDS @ "O.C.
2 X PLATE
SUBFLOOR
2 X SOLID BLOCKING
2 X FLOOR JOISTS @ "O.C.
MUDSILL W/ LEVELING GROUT
ANCHOR BOLTS
REINFORCING BARS
EXTERIOR FINISH GRADE
INTERIOR FINISH GRADE—CRAWL SPACE
INSULATION
TERMITE SHIELD
RODENT BARRIER
VAPOR BARRIER W/ SAND COVER
FOOTING DRAIN TILE
CONCRETE SLAB
WELDED WIRE MESH REINFORCING
WATERPROOF MEMBRANE
CRUSHED ROCK OR TAMPED SAND
STEEL DOWELS
CONCRETE FOOTING
CONCRETE FOOTING REINFORCING BARS
FILLED & TAMPED EARTH

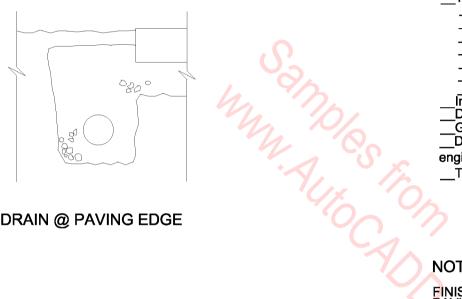


ACCESS

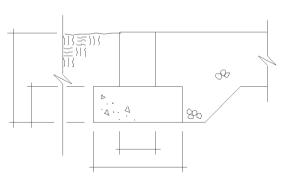
1 Story

2 X STUDS @ "O.C.
2 X BOTTOM PLATE
SUBFLOOR
DOUBLE 2X HEADER
2X FLOOR JOISTS @ "O.C.
MUD SILL @ FOUNDATION WALL
CRAWL SPACE ACCESS OPENING
GRADE
AREAWAY
AREAWAY
AREAWAY CONCRETE RETAINING WALL
2" RIGID INSULATION (@ foundation wall or grade beam)
DAMPROOFING (@ foundation wall or grade beam)
#15 FELT (over fill surrounding drain tile)
4" DRAIN TILE, SLOPE 1/8" PER 12"
POROUS GRANULAR FILL (minimum: 12" above,
6" below, & 6" on either side of drain tile)
BACKFILL

DRAINAGE Paving Edge



DRAIN @ PAVING EDGE



DRAIN @ PAVING EDGE

DRAINAGE Paving Edge

DETAIL DATA CHECKLIST

DRAINAGE
__Types of pipe for subsurface drains are:
__Corrugated metal
__Flexible plastic

Concrete

Clay tile

PAVEMENT

Asbestos cement

Rigid plastic

Porous and unperforated

Install perforated drain with holes facing down
Drainpipe should be sloped to a sump or outfall

Grade filter material above and around drainpipe

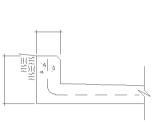
Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)

Trench drains should slope to a drainpipe

NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
METAL GRATING FRAME
PIPE (TYPE, SIZE, MATERIAL)
CONCRETE BASE
REINFORCING
AGGREGATE
PACKELL BACKFILL COMPACTED SUBGRADE ADE PERFORATED PIPE, 1/8" PER FOOT MIN. SLOPE TO OUTLET OR DAYLIGHT

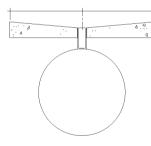
DRAINAGE Flumes & Inlets



DRAINAGE FLUME/SPILLWAY



DRAINAGE FLUME/SPILLWAY



SLOTTED DRAINPIPE & GRATE

DRAINAGE Flumes & Inlets

DETAIL DATA CHECKLIST

```
CONCRETE FLUMES
Depth and slope of flume depend on drainage load (see civil engineering handbook tables)
Exposed edges can be chamfered, tooled, or have a 1/2* to 1" radius
Reinforcing:
Precast concrete curbs may have dowel pins and holes at alternate ends
Two 44 bars, one top and one bottom, continuous is common.
May have #3 ties or stirrups at 32* to 36* o.c.
Two bars at the bottom of the footing may be needed
Bars should have 2" cover
When curb is continuous wipaving, woven wire mesh (WWM) may be turned down into curb
Compact the subgrade
Provide ample subgrade drainage
Expansion Joints
Two types needed:
Joints in the curb itself
Joints between curb and adjacent paving

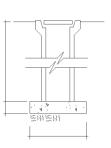
-Curb joints should occur at approximately 15' intervals, and at all corners
Provide 1/4" radius at edge of joints

Materials
1/2" preformed expansion joint, held down 1" for sealant on top
Heartwood redwood filler strip pour joint, 1/2" flexcell

GRATES
In areas of foot or bike traffic, grates must not allow penetration by:
Heels
Crutches
Cane tips
Tires
Must still provide sufficient drainage
Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST,
SAMPLE NOTATION
FINSH CRADE/PAVING
PAVING BASE
METAL GRATING
```

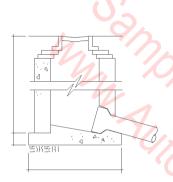
DRAINAGE Inlets



DRAIN INLET



DRAIN INLET



DRAIN INLET



DRAINAGE Inlets

DETAIL DATA CHECKLIST

MANHOLES
Spaced 300' to 600' apart for inspection and maintenance
(Also depends on sewer size and local standards)
Manhole walls for a combined or sanitary sewer may be:

8" brick
6" concrete
6" solid concrete manhole block or precast concrete units to depth of 12'
Below 12' depth all brick and block walls shall be 12" thick
Manholes over 12' deep shall also have a 12' thick base

IINLETS AND CATCH BASINS
Choice of the unit is subject to local codes and practice
Spacing depends on the size and type of unit, and the slope of gutter or swale in relation to anticipated

Jack Process of the Control of the C

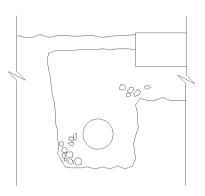
DRAIN INLET COVERS
Usually precast concrete or cast iron (also ductible iron)
Frames and grates available for light and heavy loading conditions

GRATES
In areas of foot or bike traffic, grates must not allow penetration by:
Heels
Crutches
Cane tips
Tires
Must still provide sufficient drainage
Slotted grating may be used if slots run transverse to traffic direction

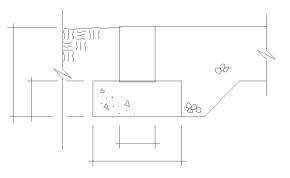
NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
MATERIAL)
CONCRETE BASE
REINFORCING
AGGREGATE
BACKFILL
COMPACTED SUBGRADE BROOM FINISH CONCRETE TOOLED EDGE CONCRETE GRADE
INLET FRAME & GRATE
PAVEMENT
SLOPE FLOOR TO
OUTLET

DRAINAGE Paving Edge



DRAIN @ PAVING EDGE



DRAIN @ PAVING EDGE

DRAINAGE Paving Edge

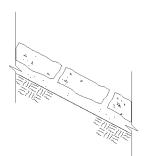
DETAIL DATA CHECKLIST

DRAINAGE
____Types of pipe for subsurface drains are:
____Corrugated metal
___Flexible plastic Man Poles Ton Concrete Clay tile Asbestos cement Aspestos cement
Rigid plastic
Porous and unperforated
Install perforated drain with holes facing down
Drainpipe should be sloped to a sump or outfall
Grade filter material above and around drainpipe
Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)
Trench drains should slope to a drainpipe

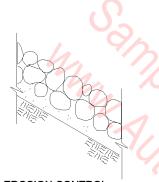
NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING
PAVING BASE
METAL GRATING
METAL GRATING FRAME
PIPE (TYPE, SIZE, MATERIAL)
CONCRETE BASE
REINFORCING
AGGREGATE
BACKFILL
COMPACTED SUBGRADE
GRADE GRADE 4" PERFORATED PIPE, 1/8" PER FOOT MIN. SLOPE TO OUTLET OR DAYLIGHT PAVEMENT

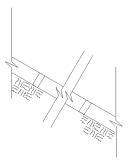
EROSION CONTROL Concrete, Stone, Wood Grid



EROSION CONTROL Concrete



EROSION CONTROL Stone



EROSION CONTROL Wood Grid

EROSION CONTROL Concrete, Stone, Wood Grid

DETAIL DATA CHECKLIST

EROSION CONTROL
Slopes up to 2:1, use stone, broken concrete, or wood grid
Slopes up to 1:1, use stone or broken concrete set on mortar and with
mortar between joints

O R
Use precast unit (concrete with voids for soil)
Steep slopes, use retaining walls (see later section)

STONE EROSION CONTROL
Use 4" to 8" diameter round stone
Hand place on a 3" sand bed

BROKEN CONCRETE EROSION CONTROL
Each piece should be a minimum of 1' square and 4" thick
Joints should be tight sand or mortar at least 1" wide
Set peices on a 2" sand bed

WOOD GRID EROSION CONTROL Lay 2x4s across the slope at 3' spacing; lay 1x4 ties at 8' o.c. —Fill grid spaces with topsoil and sod or seed, wood chips, gravel, or ground cover

PRECAST UNITS EROSION CONTROL
Set on a 2" sand bed; fill voids with topsoil

NOTATION CHECKLIST, SAMPLE NOTATION PAVER UNITS
SETTING BED
SLOPE
COMPACTED SUBGRADE

FINISH: METAL FRAME PARTITIONS

DETAIL DATA CHECKLIST

METAL STUD WALLS

--Louvers or vents

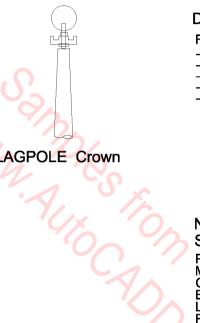
Studs shown in this series are steel members in the sizes indicated in the detail titles Metal wall manufacturers' instructions and details for these products are very comprehensive; use the data here as a preliminary design guide Partition notation mainly consists of naming the various components such as:	
Metal studs: Channel.	
C" Open web	
Nailable Floor and ceiling tracks Tracks connecting to other wall construction	
Jamb anchor clips Bolt or toggle bolt connection to ceiling Movement sleeve at ceiling Sealant at top and bottom tracks	
Horizontal 3/4" channel stiffeners: At door iambs	
Above door heads Usually within 12" of other wall openings	
FINISH WALL CONSTRUCTION	
 Gypsum wallboard and other finish material manufacturers provide comprehensive instructions and details for their products; use the data here as a preliminary guide. Building codes provide extensive instructions on fireproofing requirements; those requirements have evolved from many years of fire experience and should be followed with extreme care. 	
Common wall finishes combined with metal frame partitions include:3/8" plywood paneling	
3/8" plywood paneling 3/8" gypsum wallboard Interior Single Layer:	
1/2" gypsum wallboard 5/8" gypsum wallboard 3/4" 7/8" 1" metal lath and plaster	
Interior Double Layer: 2 - 3/8" gypsum wallboard	
2 - 1/2" gypsum wallboard 2 - 5/8" gypsum wallboard	
1/2" gypsum wallboard plus 3/8" plywood pa <mark>neling</mark> 3/8" gypsum lath plus 1/2" plaster (7/8")	
3/8" gypsum lath plus 5/8" plaster (1") 3/8" gypsum lath plus 3/4" plaster (1-1/8")	
Gypsum Wallboard Walls & Ceilings. Special types of gypsum wallboard that might be	
noted in details include:Type X for fire resistance	
Water resistantWaterproofSound deadeningInsulative foil backed	
Gypsum wallboard assembly components commonly identified in detail drawing notes include:	
Corner beads Edge trim	
Corner guardsEdge trim sealant @ floor and ceiling	
Resilient channelsAngle clip reinforcement @ ceilings	
Lath & Plaster Walls & Ceilings. Plaster coats sometimes identified in large scale details are:Scratch coat	
Brown coatFinish coat	
Lath and plaster components commonly identified in detail notation include:Expanded metal lathWire lath	
Wire lath Gypsum lath Base screeds	
Corner beads Edge casing beads	
Grounds Picture mouldings	
Window stools Corner lath reinforcement Control joints	
Other wall and ceiling finishes that might be noted include veneer plaster, sprayed acoustical surface, fabric or carp vinyl, laminated plastic, etc. Such applied finishes may be named in details but are commonly referenced to the finischedule and specifications.	
OTHER DETAIL AND NOTATION DATA THAT MAY BE USED WITH THESE DETAILSWall-related detail items:	
Snelving Tack and chalk boards Ornamental trim, casings, and special moldings	
Casework at end walls and jambs	
Coves and valancesSigns and support backingRecessed compartmentsPass-thru openingsAccess panels	
voces hariera	

FLAGPOLES

FULL-SCALE GENERIC DETAILS



FLAGPOLE Crown



FLAGPOLE Crown

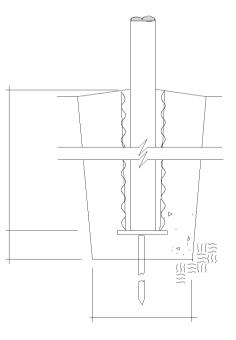
FLAGPOLES

DETAIL DATA CHECKLIST

FLAGPOLE BASE
Footing dimensions are determined by the height of the pole
See manufacturer's recommendations on footing/height ratio
Place pole in corrugated tube, and pack with dry sand
Ground the flagpole for lightning protection
Pole anchorage as per manufacturer's requirements

NOTATION CHECKLIST, SAMPLE NOTES **POLE**

METAL COLLAR/BASE CAP CORRUGATED STEEL SLEEVE/GROUT TUBE **BASE PLATE** LIGHTNING ARRESTOR/GROUND SPIKE FOOTING BACKFILL SUBGRADE SATIN BRUSHED ALUM. BALL WATERPROOF CEMENT LEVELING WOOD WEDGES TAMPED, DRY FORESAND 16 GA GALV CORRUGATED STEEL TUBE @ FOOTING METAL PIPE SLEEVE
CONCRETE BASE
PLATE SUPPORT WELDED TO SPIKE
3/4" DIA. STEEL LIGHTNING GROUND
SPIKE; WELD TO PLATE CONCRETE FOOTING



FLAGPOLE Base

FLASH: FLASHING AT PARAPETS

Commonly used flashing materials:

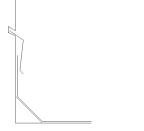
The primary cost of flashing is labor, so the best materials add little to the cost of this crucially important part of construction.

(Copper
	Lead L. State of the control of the
	Zinc Zinc
	Aluminum
	Galvanized steel
	Plastic
	Copper-backed paper ()
	Building paper felt and impregnated fabric
	Parapet flashing typically consists of two overlapping L sections:
(One L section is attached to the roof
-	The other is counterflashing, an inverted L that fits into a
p	arapet reglet and slips down over the top of the lower base flashing
	26 gauge flashing is commonly used because it affords good
É	protection while still being thin enough to bend, form, and work with comfortable Base flashing is bent upwards at 45 degrees to avoid sharp corners
	hat might split the metal or roofing
	Minimum flashing width for most flashing situations is 8"
	Any extended lengths of flashing requires expansion joints
	Refer to the Manual of standards of the Sheet Metal and Air
	Conditioning Contractors National Association for varied detail conditions and
I	nstallation standards

FLASHING @ PARAPETS

FLASHING @ PARAPETS

FLASHING @ CONCRETE **PARAPET**



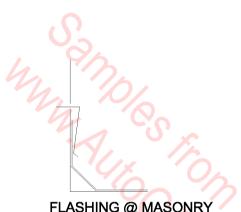
FLASHING @ CONCRETE **PARAPET**



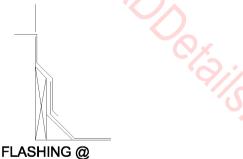
FLASHING @ **MASONRY PARAPET**



FLASHING @ MASONRY PARAPET



FLASHING @ MASONRY **PARAPET**



MASONRY PARAPET



FLASHING @ **PARAPET**

NOTATION CHECKLIST, SAMPLE NOTES

PARAPET WALL CONSTRUCTION PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
CANT/NAILER
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAUFENS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
COPING

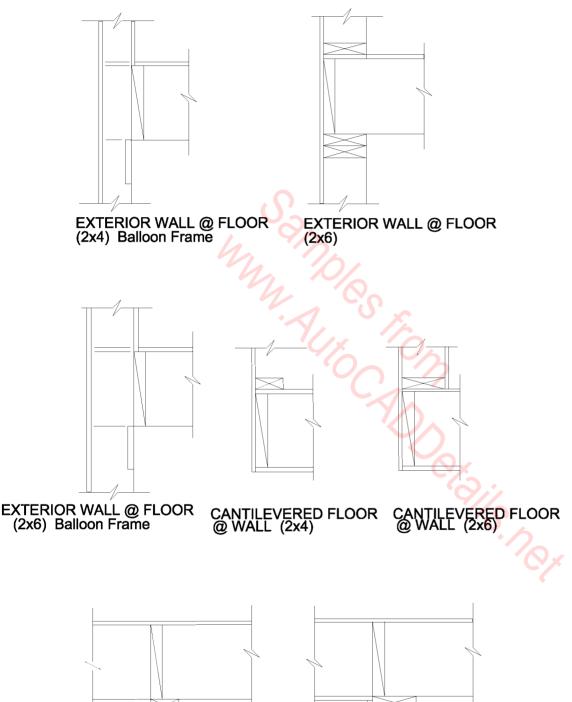
SAMPLE NOTES: 24 GA. CLIP-ON FLASHING, ATTACH @ 24 GA. CLIP-ON FLASHING, AT ACITY CTR. OF FA PIECE
2 X TREATED PLATE, 1/2" EXP. BOLTS
@ 24" O.C.
2 X 10 WOOD BLKG., SECURE TO MTL.
STUD & BRICK W/1/2" DIA. ANCHOR
BOLT 8" LONG @ 48" O.C.
MANUFACTURED REGLET & FLASHING IEM ASHING OMERIC FLASHING FLASHING OVER PLATE HING APPLIED W/ ADHESIVE OR ALUMINUM FLASHING CLEAT (to slope) FLASHING NAILS @ 8" O.C. DGE & SEAL SHING JOINT SET IN ROOFING CEMENT TAL CAP FLASHING METAL CAP FLASHING
S.S. FLASHING INTO PRESET REGLET
S.S. FLASHING INTO PRESET REGLET
FLASHING THE AGAINST WALL
METAL FLASHING SET IN MORTAR BED
METAL FLASHING
BUILT-UP ROOFING
BASE SHEET INSULATION
EFLT YAPOR BARRIER
FILL, PITCH TO BRAIN
WOOD BLOCKING
NAILABLE CANT
CONT. 4" HIGH CANT

FLOOR @ WALL

CANTILEVERED FLOOR @

EXT. WALL (2x4)

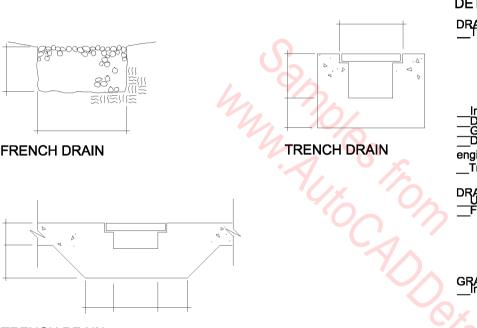
FLOOR @ WALL



CANTILEVERED FLOOR @ EXT. WALL (2x6)

NOTATION CHECKLIST, SAMPLE NOTES CEILING LINE @ 2 X STUDS @ " O.C. HEADER
TRIM FOR CASED OPENING
2 X BOTTOM PLATE
2 X TOP PLATE
BASE (FINISH BASE SIZE/MATERIAL) FINISH FLOOR INTERIOR: GYPSUM WALLBOARD LATH & PLASTER WOOD PANELING WOOD PANELING
TILE
MASONRY VENEER
RAILINGS/WALL GUARDS
HOOKS/TRACKS
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES
PASS-THRU
SOUND ISOLATION PLATE
SOUND ISOLATION CLIPS SOUND ISOLATION CLIPS
EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
FLASHING/WATERPROOFING
ANCHORS/MOUNTING BRACKETS
THRU-WALL SLEEVES BATT INSULATION
INSULATION BOARD
WOOD SIDING
15# FELT
1/2" FOIL FACE INSULATION
AIR SPACE
1/2" X 6"BEVELED LAP SIDING
1/2" PLYWOOD SHEATH
PLYWOOD SIDING
VAPOR BARRIER
WOOD TRIM
2 X JOISTS @ "O.C.
2 X RAFTERS @ "O.C.
BI OCKING 2 X RAFTERS @ "O.C.
BLOCKING
FLASHING
GYPSUM BOARD CEILING
HARDWOOD STOPS
HARDWOOD JAMB
2 X 4 CONT. WOOD BLOCKING
SOUND INSULATION
PREFINISHED PANELING
DOOR FRAME
DOOR SIZE
WOOD DRIP
1 X WOOD STOP

FRENCH & TRENCH DRAINS



TRENCH DRAIN

FRENCH & TRENCH DRAINS

DETAIL DATA CHECKLIST

DRAINAGE Types of pipe for subsurface drains are: Corrugated metal Flexible plastic Concrete Clay tile Asbestos cement
Rigid plastic Porous and unperforated Install perforated drain with holes facing down Drainpipe should be sloped to a sump or outfall Grade filter material above and around drainpipe Depth and spacing of subdrains depends on soil type (see civil
engineering handbook tables)Trench drains should slope to a drainpipe
DRAIN INLET COVERS Usually precast concrete or cast iron (also ductible iron) Frames and grates available for light and heavy loading conditions Shapes available: Round Rectangular Square Linear
GRATES In areas of foot or bike traffic, grates must not allow penetration by: Heels Crutches Cane tips Tires
Must still provide sufficient drainage Slotted grating may be used if slots run transverse to traffic direction

NOTATION CHECKLIST, SAMPLE NOTATION

FINISH GRADE/PAVING PAVING BASE METAL GRATING METAL GRATING FRAME CONCRETE BASE REINFORCING AGGREGATE BACKFILL COMPACTED SUBGRADE

FURRING: METAL FURRING -- WALLS & CEILINGS

DETAIL DATA CHECKLIST

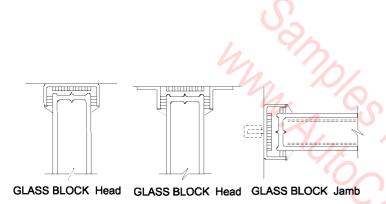
 METAL FURRING Typically consists of metal furring strips added to rough wall or ceiling construction for attachment of lath or gypsum wall board A typical gypsum board support system: Hanger wires are typically spaced 48" o.c. and within 6" of the end of carrying channel Hanger wires support 1-1/2" carrying channels set at 48" o.c. and within 6" of walls 7/8" metal furring channels are supported at right angles to the carrying channels Furred spaces may be used for chases and soffits and are constructed of combinations of wood or metal
studs and furring strips See manufacturers' recommendations regarding attachment of hanger wire and furring strips to various
types of substructure
Common wall finishes combined with metal framed partitions and furring include:
3/8" plywood paneling
3/8" gypsum wallboard
1/2" gypsum wallboard
5/8" gypsum wallboard 3/4" 7/8" 1" metal lath and plaster
2 - 3/8" gypsum wallboard
2 - 1/2" gypsum wallboard
2 - 5/8" gypsum wallboard
1/2" gypsum wallboard plus 3/8" plywood paneling
3/8" gypsum lath plus 1/2" plaster (7/8")
3/8" gypsum lath plus 5/8" plaster (1")
3/8" gypsum lath plus 3/4" plaster (1 1/8")
Sypsum Wallboard Walls & Ceilings special types of gypsum wallboard that might be required:
Sound deadening
Type X for fire resistance
Insulative foil backed
Water resistant Waterproof
Bypsum wallboard assembly components commonly identified in detail drawing notes include:
Corner beads
Edge trim
Corner quards

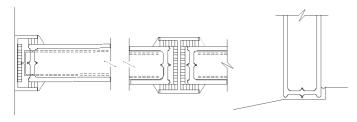
- Corner guards
- --Edge trim sealant @ floor and ceiling
- --Resilient channels --Angle clip reinforcement @ ceilings

Lath and plaster components commonly identified in detail notation include:

- -- Expanded metal lath
- --Wire lath --Gypsum lath
- --Control joints
- --Base screeds
- --Corner beads
- --Edge casing beads
- --Grounds --Picture mouldings
- --Window stools
- --Corner lath reinforcement

GLASS BLOCK





GLASS BLOCK Jamb GLASS BLOCK Stiffener GLASS BLOCK Sill

GLASS BLOCK

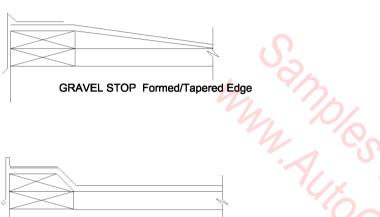
```
DETAIL DATA CHECKLIST
GLASS BLOCK
Basic use and characteristics:
Use as panels or wall inserts as light diffusers for exterior screens and interior partitions
Typical block sizes
3-7/8" thick x:
5-3/4" square
7-3/4" square
11-3/4" square
11-3/4" square
11-3/4" square
Porible inside joint typically 1/4" thick, exterior joint 5/8" max.
For non-bearing partitions or infill
Laid only in stackbond
Provide movement joints and anchors as per manufacturers' instructions
Maximum panel sizes
Let into wall frame: 24' long, 20' high without intermediate mullions (or max. area of 144 sq. ft.)
Anchored to wall: 10' x 10' without intermediate mullions (or max. area of 100 sq. ft.)
Wall anchors
Metal strips to fasten glass block panels to adjacent walls
Typically 1-3/4" wide x 24" x 20 gauge galvanized steel strips
Wall ties
Galvanized wire reinforcing lattice laid through horizontal mortar joints
Typically spaced at 24"
Not to extend across vertical movement joints
Provide wall expansion strips at heads and jambs
Details vary with manufacturer; see manufacturers' data on:
Special molded patterns
Diffusion characteristics (directed light such as exterior light directed to celling)
Modular patterning for integration with brick and concrete block
Anchors and wall ties
Expansion joints and strips
Mullions and stiffeners
```

NOTATION CHECKLIST, SAMPLE NOTES

METAL CHANNEL/ANGLE ANCHOR FLASHING EXPANSION STRIP CAULKING JOINT REINFORCING

OAKUM
EXPANSION STRIP
ASPHALT EMULSION
PANEL REINFORCING
PANEL ANCHOR
HOOKED WIRE ANCHOR
ROOFERS FELT
GALY TOVETALL ANCHOR
DOVETALL ANCHOR
O.C.

GRAVEL STOPS









GRAVEL STOPS

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DETAIL DATA CHECKLIST
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GRAVEL STOPS

Materials: Sheet metal such as coated galvanized steel or copper nailed to roof substrate, wide variety of materials and finishes available. Gauges and sizes:

_4" to 8" high lip at fascia _ 24 gauge for 4" to 5" lip _ 22 gauge for 6" to 8" lip _ 16 oz. copper 4" to 6" lip _ 20 oz. copper 7" to 8" lip.

Provide expansion joints to allow for: _ 1/2" thermal movement in a 40' length of galvanized steel _ 1/2" movement for 40' copper _ 3/4" movement for 40' aluminum

Set one side of overlapping joint fasteners in mastic so that one half adheres and the other half is free to allow thermal movement.

allow thermal movement _If fascia lip of gravel stop is 4" or higher, apply continuous interlocking cleat at bottom of stop at vertical ^I

edge to secure against wind uplift
_Use neoprene or similar watertight washer where cleats are nailed to wall

Install on raised curb with 1" minimum top lip

Gravel stops that are not above ponding line are subject to water infiltration

Concealed gravel stops that stop at the top of a wall rather than over-hanging are subject to leaks Direct nailing or attachment of coping to wall surface doesn't allow for differential movement

NOTATION CHECKLIST. SAMPLE NOTES

METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
ROOFING SURFAS COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
ROOF FASCIA
EXTRUDED ALUM. FASCIA
TREATED CANT
TREATED 2X 6 MIN. BOLTED TO STRUCTURE
TREATED WOOD BLOCKING
ELASTOMERIC SEALANT ALONG ENTIRE LENGTH
OF FLASH. TYPICAL
COMPRESSIBLE FILLER RD.

COMPRESSIBLE FILLER RD STEEL ANGLE, SEE STRUCTURAL

MEMBRANE BASE FLASHING CONT. TO COVER CANT & WOOD BLKG. 6" MIN. BASE FLASHING NT & WOOD BLKG. IN. BASE FLASHING OND PLY TO LAP OTHER PLY'S FULL LENGTH OF CANT FLASHING APPLIED W/ADHESIVE LEAD OR ALUMINUM FLASHING CONT. CLEAT SEALANT SEALANT BASE FLASHING NAILS @ 8" O.C. BASE FLASHING NAILS @ SEALANT COMPOSITION FLASHING BUILT-UP ROOFING BASE SHEET INSULATION VAPOR BARRIER FILL, PITCH TO DRAIN NAIL AND COANT NAILABLE CANT CONT. 4" HIGH CANT

GRAVEL STOPS

hun soles **GRAVEL STOP 4x6 Cant GRAVEL STOP Extruded** GRAVEL STOP W/Fascia Plate **GRAVEL STOP Formed**

GRAVEL STOPS

DETAIL DATA CHECKLIST

DETAIL DATA CRECKLIST
GRAVEL STOPS
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Set one side of overlapping joint fasteners in mastic so that one half adheres and the other half is free to allow thermal movement

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If tascia lip of gravel stop is 4" or higher, apply continuous interlocking cleat at bottom of stop at vertical
edge to secure against wind uplift
Use neoprene or similar watertight washer where cleats are nailed to wall
Install on raised curb with 1" minimum top lip

Install on raised corp with the following state of the following sta

NOTATION CHECKLIST. SAMPLE NOTES

METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
ROOFING SUPERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
ROOF FASCIA
EXTRUDED ALUM. FASCIA
TREATED CANT
TREATED CANT
TREATED WOOD BLOCKING
ELASTOMERIC SEALANT ALONG ENTIRE LENGTH
OF FLASH. TYPICAL
COMPRESSIBLE FILLER RO
STEEL ANGLE, SEE STRUCTURAL

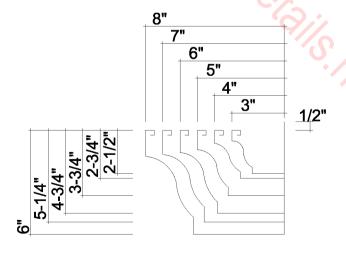
MEMBRANE BASE FLASHING CONT. TO COVER CANT & WOOD BLKG.

"MIN. BASE FLASHING
SECOND PLY TO LAP OTHER PLY'S FULL LENGTH OF CANT
FLASHING APPLIED W/ADHESIVE
LEAD OR ALUMINUM FLASHING
CONT. CLEAT
SEAL ANT
COMPOSITION FLASHING
BUILT-UP ROOFING
BASE SHEET INSULATION
VAPOR BARRIER
FILL, PITCH TO DRAIN
NAILABLE CANT
CONT. 4" HIGH CANT

GUTTERS

METAL GUTTER Ogee

METAL GUTTER Ogee



GUTTERS

NOTATION CHECKLIST, SAMPLE DETAILS

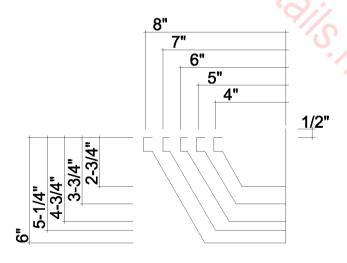
GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/16" SHACE @ 6-7" METAL GUTTER
SPACER @ 6-7" METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8" X 1" SHT MIT GUTTER
BRACKET @ 3'-0" O.C.
DOWNSPOUT
SPLASH BLOCK

GUTTERS GUTTERS

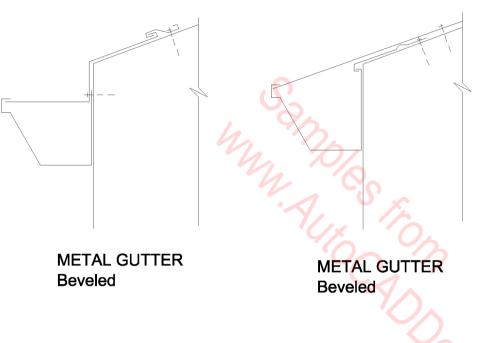


NOTATION CHECKLIST, SAMPLE NOTES

GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/16"x 1" SHEET METAL GUTTER
SPACER @ 6-0" O.C.
SHEET METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8"X 1" SHT MTL GUTTER
BRACKET @ 3'-0" O.C.
DOWNSPOUT
SPLASH BLOCK

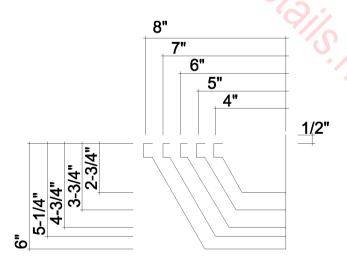


GUTTERS GUTTERS

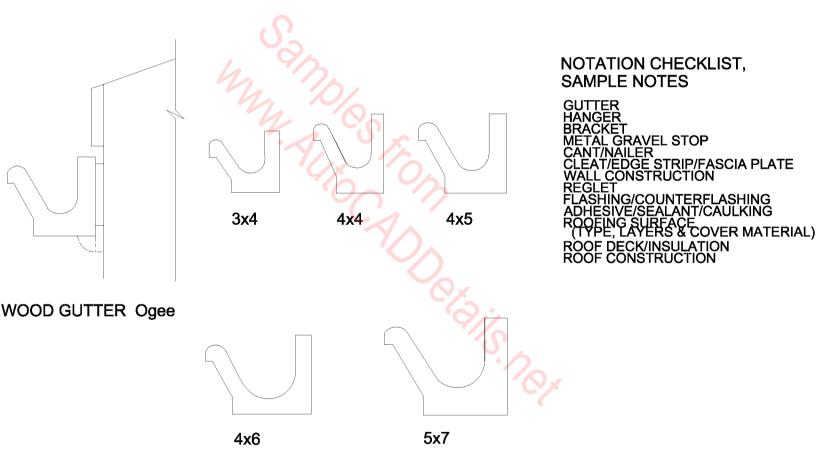


NOTATION CHECKLIST, SAMPLE NOTES

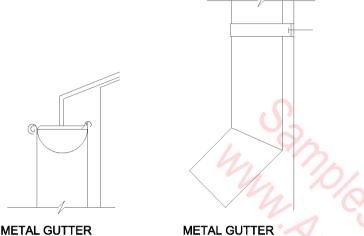
GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/16"x 1" SHEET METAL GUTTER
SPACER @ 6-0" O.C.
SHEET METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8"X 1" SHT MTL GUTTER
BRACKET @ 3'-0" O.C.
DOWNSPOUT
SPLASH BLOCK



GUTTERS (Wood Gutters Included)



GUTTERS GUTTERS

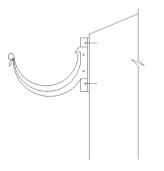


NOTATION CHECKLIST, SAMPLE NOTES

RAVEL STOP REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION Illo ton Calon California. Not

AMPLE NOTES: 16" x 1" SHEET METAL GUTTER SPACER 6 5 0" OTC.

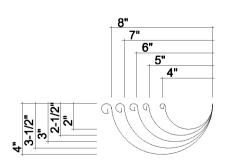
METAL GUTTER



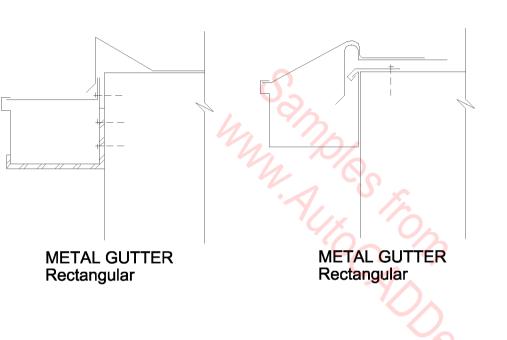
METAL GUTTER Half Round



METAL GUTTER Half Round

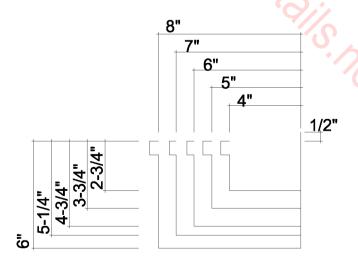


GUTTERS GUTTERS



NOTATION CHECKLIST, SAMPLE NOTES

GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
1/16" x 1" SHEET METAL GUTTER
SPACER @ 6"-0" O.C.
SHEET METAL GUTTER
CONT. SHEET METAL CLEAT
BLOCKING
RIVETS
OPTIONAL GUTTER PROFILE
1/8" X 1" SHT MTL
BRACKET @ 3"-0" O.C.
DOWNSPOUT
SPLASH BLOCK





GUY WIRE CONNECTION

GUY WIRE CONNECTION

DETAIL DATA CHECKLIST

GUY WIRE

Guy wire connections are usually an afterthought; a way of securing add-on equipment on a rooftop after it's built. It's not good construction practice to penetrate the roof with connectors of any sort and especially connectors that will be subject to stress and possible movement.

If they must be included, they're handled as pitch pockets: enclosed, caulk-filled holes around the penetrating guy-wire eyebolt. Hot- or cold-applied caulk such as bitumin with fiber filler is poured and/or packed around the penetration.

Coordinate the detailing for such work closely with the structural engineers and make sure the operation is covered in the roofing preconstruction meeting. This work should be part of the roofing contract and included in the roofing warranty.

NOTATION CHECKLIST, SAMPLE NOTES

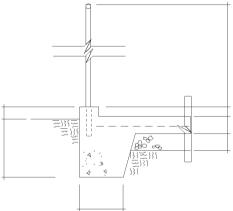
EYE BOLT (MATERIAL & SIZE)
MOLDED FLASHING/METAL DAM
SEALER/PITCH
ROOFING SURFACE
(TYPE: LAYERS & COVER MATERIAL)
ROOFING DECK/INSULATION
ROOF CONSTRUCTION

3/4" STAINLESS STEEL EYEBOLT
W/1" DIA. EYE
POURABLE SEALER
MOLDED FLASHING
GALV. METAL DAM
MEMBRANE IN CONTACT W/POURABLE SEALER
ROOFING MEMBRANE
TREATED WOOD BLOCKING
METAL DECK
FILLER

HANDICAP RAMPS

*ALIX FOR N £1%

HANDICAP RAMP



HANDICAP RAMP

HANDICAP RAMPS

DETAIL DATA CHECKLIST

RAMPS
See building code and handicap design regulations for slope and
handrail requirements
8 slope is typically maximum for wheelchairs for up to 30'
Provide curbs 4" to 6" high at each side of ramps to prevent side
runaways or tipping of wheelchairs
Provide nonslip treatment (abrasive surface or broom finish applied
across width of ramp)

HANDICAP RAMPS

Handicap ramps must usually be as per the governing agency's design standards and specifications.

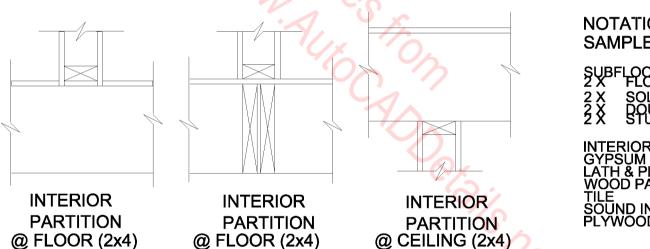
Design standards, specifications and detail drawings are usually provided referenced by the governing agency.

NOTATION CHECKLIST, SAMPLE NOTES

CONCRETE WALLS/RAMP REINFORCING HANDRAILS/BRACKETS CAMFER AGGREGATE BASE COMPACTED SUBGRADE SEALANT FOOTINGS

1/4" GROOVES, 3/4" O.C.
STIFF BROOM FINISH ON RAMP SURFACE
TEXTURED CONCRETE
COURSE BROOM FINISH
CONC. GUTTER
CURB TAPER BEYOND
1/2" EXP. JOINT
1/2" JOINT FILLER MATERIAL
TOP OF CURB
REINFORCING
RAMP DOWN

INTERIOR PARTITION @ FLOOR /CEILING



NOTATION CHECKLIST, SAMPLE NOTES

SUBFLOOR 2 X FLOOR JOISTS @ "O.C. 2 X SOLID BLOCKING 2 X DOUBLE TOP PLATE 2 X STUDS @ "O.C.

INTERIOR:
GYPSUM WALLBOARD
LATH & PLASTER
WOOD PANELING
TILE
SOUND INSULATION
PLYWOOD SHEATHING

MARBLE TILE FLOORS

THIN MARBLE FLOOR Thin-Set

MARBLE TILE FLOOR Mortar Bed

THIN MARBLE FLOOR Mortar Bed

MARBLE TILE FLOOR Thin-Set

MARBLE TILE FLOORS

whole All **DETAIL DATA CHECKLIST**

MARBLE FLOORING
Typical thicknesses are 7/8" and 1-1/4"
Joints are typically 1/16" thick
Typical marble tile size ranges are 8" x 16", 12" x 12", and 10" x 20"
Marble comes in hundreds of varieties, in five classes and four grades:
__Classes are Travertine, Dolomite, Calcite, Onyx, and Serpentine, see supplier's catalogs for flooring

characteristics and recommendations Grading is according to uniformity of appearance: A, B, C, and D; A being best

__crading is according to uniformly of appearance: A, b, c, and b, A being best
Provide a stable substrate; movement of substrate will cause cracks
Provide complete, compact bedding beneath marble tile slabs to avoid bending stresses and cracking
Don't use marble floors in restrooms or other areas where it would be exposed to acids or alkaline substances
Don't use polished marble near exterior doors, restrooms or other areas where floors may be wet and slippery

_____Don't use polished marble near extenor doors, resulton to the latest marble can be dangerously slippery and shouldn't be used on stairs or ramps

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)
SETTING BED (MATERIAL & SIZE)
JOINT SIZE
FLOOR
MEMBRANE/WATERPROOFING
SUBFLOOR/SLAB
REINFORCING

RBLE TILE ISH CONC. WOOD UNDERLAYMENT WOOD SUBFLOOR RTICLE BOARD UNDERLAYMENT AUHESIVE SETTING BED MORTAR BED W/REINFORCING ANGLE EDGER THRESHOLD DIVIDER STRIP REDUCER STRIP

MASONRY COPING (12" Parapet) MASONRY COPING (12" Parapet) MASONRY COPING (8" Parapet) MASONRY COPING (8" Parapet) MASONRY COPING (8" Parapet) MASONRY COPING (10" Parapet) MASONRY COPING (12" Parapet) Pe. May

MASONRY COPING (10" Parapet)

MASONRY COPINGS

MASONRY COPING (10" Parapet)

MASONRY COPINGS

NOTATION CHECKLIST, SAMPLE NOTES COPING (TYPE, MATERIAL & SIZE) SETTING BED ANCHORDOWELS ORID EDGE

COPING STONE JOINT COVER TIE BACK ANCHOR CANT ROOFING

MASONRY PARAPETS

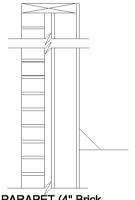
MASONRY PARAPETS

BRICK AND CONCRETE BLOCK WALLS Design limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

PARAPET (8" Cav.

Wall--3" Brick)

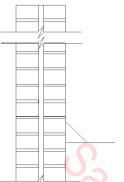


PARAPÉT (4" Brick & Metal Frame)





Wood Frame)





PARAPET (4" Brick &



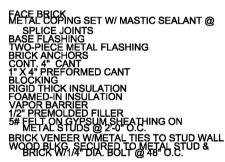
NOTATION CHECKLIST, SAMPLE NOTES

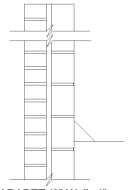
DETAIL DATA CHECKLIST

COPING/CAP FLASHING
PARAPET WALL CONSTRUCTION
FLASHING/COUNTERFLASHING
WEEP
ANCHORS/TIES
SEALANT/CAULKING

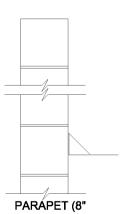
CANT ROOFING SURFACE (TYPE, LAYERS & COVER MATERIAL) ROOF DECK INSULATION ROOF CONSTRUCTION/FRAMING

Appelais, nox





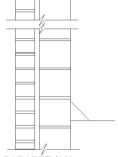
PARAPET (8" Wall--4" Brick & 4" HMU)



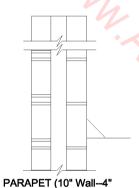
HMU Wall)

MASONRY PARAPETS

PARAPET (10" Cav. Wall--4" Brick)



PARAPÉT (10" Wall--4" HMU)

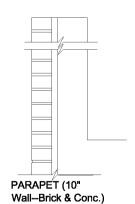


Brick & 6" HMU)

PARAPET (10" Cav.

Wall--4" Brick &

PARAPET (10" HMU Wall)



MASONRY PARAPETS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS besign limits of wall types, thickness and heights are strictly limited by most building codes, so consult your local code for the last word on preliminary design assumptions and final design.

Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application information.

NOTATION CHECKLIST, SAMPLE NOTES

COPING/CAP FLASHING
PARAPET WALL CONSTRUCTION
FLASHING/COUNTERFLASHING
WEEP
ANCHORS/TIES
SEALANT/CAULKING

SEALANT/CAULKING
CANT
ROOF DECK INSULATION
ROOF DECK INSULATION
ROOF CONSTRUCTION/FRAMING
FACE BRICK
METAL COPING SET W/ MASTIC
SEALANT (2)
SPLICE JOINTS
BASE FLASHING
BRICK ANCHORS
CONT. 4" CANT
1" X4" PREFORMED CANT
BLOCKING
RIGID THICK INSULATION
VAPOR BARRIER
1/2" PREMOLDED FILLER

OKAIIS. NOX

CONCRETE BLOCK 4" LIGHTWEIGHT CONC. BLOCK FACE BRICK BRICK VENEER W/METAL TIES TO STUD WALL WEEP HOLES CONT. SEALANT 4" STARTER COURSE CONT. FLASHING FABRIC FLASHING SET IN REGLET GRO LIT HIM "X 3" X 1/4" CONT. SHELF ANGLE TEEL LINTEL ELEV. WEEP ANGLE WITE WEEP ANGLES WITE. WETAL STRAP ANCHORS EVERY 6TH COURSE

HORIZ.
BRICK ANCHORS
BRICK ANCHORS LOTS SPACED 2'-0" O.C.
16" 10" O.C. TYP.
REINF. @ 16" O.C. TYP.
1" RIGID INSULATION
FOAMED INSULATION

MASONRY PARAPETS

MASONRY PARAPETS

DETAIL DATA CHECKLIST

BRICK AND CONCRETE BLOCK WALLS
Design limits of wall types, thickness and heights are strictly
limited by most building codes, so consult your local code for
the last word on preliminary design assumptions and final design.

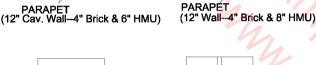
Also, see literature from the National Concrete Masonry Association, the Brick Institute of America, and the Construction Specifications Institute for complete engineering, specification, and construction application inf

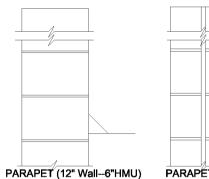
NOTATION CHECKLIST,

COPING/CAP FLASHING PARAPET WALL CONSTRUCTION FLASHING/COUNTERFLASHING WEEP

SEN.
ROOF DE.
ROOF CON. WEEP
ANCHORS/TIES
SEALANT/CAULKING
CANT
ROOFING SURFACE
ROOF DECK INSULATION
ROOF CONSTRUCTION/FRAMING







PARAPÉT (12" HMU Wall)

METAL COPING SET W/ MASTIC SEALANT @ SPLICE JOINTS ONLY 2 X BRICKO JAL DIS SECURED TO METAL STUD &

*** "BRICK WITH A ""DIA. "BOLT B" LONG" (6) "AB" O.C."

BASE FLASHING

FACE BRICK
FOAMED IN INSULATION

BRICK ANCHORS
CONT. 4" H. CANT

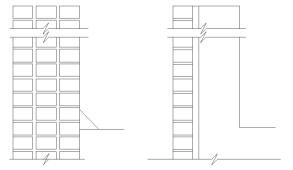
1" X 4" PREFORMED CANT

BLOCKING
2-1/4" THICK INSULATION

VAPOR BARRIER

5" FEMOLDED FILLER

5" FEMOLDED FILLE



PARAPET (12" Wall--4" Brick)

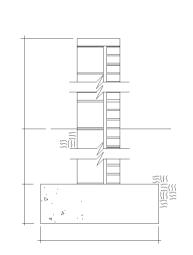
PARAPET (12" Wall--Brick & Conc.)

MASONRY YARD WALLS

MASONRY YARD WALLS

≡∭

YARD WALL 6" HMU



YARD WALL 4" Brick/8" HMU

DETAIL DATA CHECKLIST

DETAIL DATA CHECKLIST

CONCRETE MASONRY UNIT YARD WALLS
Concrete footings
Top of footing below the frost line
Minimum footing:
10" deep
16" wide
2#3 continuous rebars
Provide cap or coping
Use Type S mortar for resistance to hor izontal forces
Joints—tooled S or V mortar joints for maximum weatherproofing
Expansion joints—vertical joints at 50' minimum
For an 8" CMU wall, use a 12" CMU pilaster
Place horizontal reinforcing at 24" o.c., continuous through the pilaster
Dowel wall to concrete footing with #4 dowels at 24" o.c.
Fill block cells with grout at each dowel
OR

OR Bond beams at top of wall with #5 continuous, at 32" o.c.

NOTATION CHECKLIST.

Delails. Nex

HORIZ CONT. REINF.
FOOTING (Reinf.-typ for a 1' x 3' ftg.3 #3 cont. & #3 bars x 2'-6" @ 12" O.C.)

MASONRY UNITS (TYPE & SIZE)

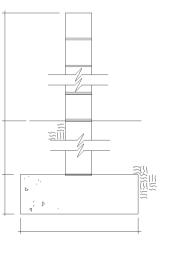
MASONRY UNITS (TYPE & SPACING)

EXPANSION JOINTS (TYPE & SPACING)
FOOTING
AGGREGATE BASE
SUBGRADE
FOOTING DRAIN

HORIZ CONT. REINF.
FOOTING (Reinf.-typ for a 1' x 3' ftg.3 #3 cont. & #3 bars x 2'-6" @ 12" O.C.)

#4 DOWEL @ 24" O.C. (Typ. tie from block wall to ftg.-)
horiz, into ftg.)
FILL CELL W/ GROUT @ EACH DOWEL (block walls)
WEEP HOLES @ 48" O.C.

EXPANSION JOINTS



YARD WALL 4" HMU

YARD WALL 8" HMU

MASONRY YARD WALLS

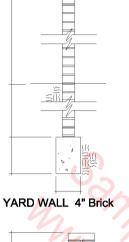
MASONRY YARD WALLS

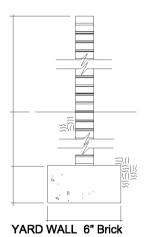
DETAIL DATA CHECKLIST

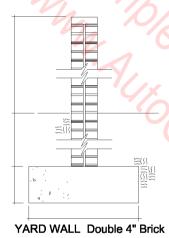
BRICK YARD WALLS

Use SW grade brick for weather resistance
Concrete footings
Top of footing below the frost line
Minimum footing:
10" deep
16" wide
2-#3 continuous rebars
Provide cap or coping:
Concrete
Stone
Rowlock brick
Use Type S mortar for resistance to horizontal forces
Joints--tooled S or V mortar joints for maximum
weatherproofing
Expansion joints--vertical joints at 50' minimum
Reinforcing--horizontal truss-type wire reinforcing
every 6th course
In areas of heavy wind (10 psf or greater):
Straight brick walls no higher than 3/4 of the wall
thickness squared (4' for an 8" wall)
Use buttresses, offsets, piers for added support
Add vertical reinforcing as per Brick Institute
handbook

handbook







NOTATION CHECKLIST, SAMPLE NOTES

TOP OF WALL ELEVATION
EWISH GRADE/PAVING
WALL CAP TYPE & SIZE)
MASONRY UNITS (TYPE & SIZE)
EXPANSION JOINTS (TYPE & SPACING)

FOOTING DRAIN

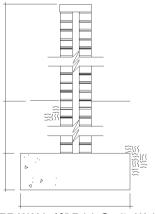
) Oldisonox

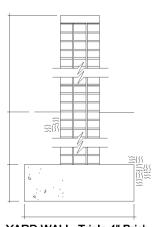
walls)
WEEP HOLES @ 48" O.C.
EXPANSION JOINTS
CONC. BLK. PILASTER

HORIZ CONT REINF.
FOOTING (reinf.-Typ for a 1' x 3' ftg.3 #3 cont. & #3 bars x 2'-6" @ 12" O.C.)
#4 DOWEL @ 24" O.C. (Typ. tie from block
wall to ftg.-90' angle 30" vertical & 12"
horiz. into ftg.)
FILL CELL W/ GROUT @ EACH DOWEL (block
walls)

MASONRY YARD WALLS

FULL-SCALE GENERIC DETAILS continued

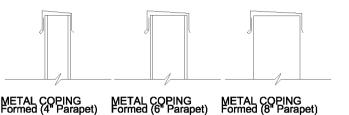


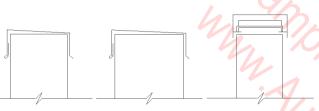


YARD WALL 10" Brick Cavity Wall

YARD WALL Triple 4" Brick

METAL COPINGS

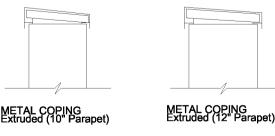




METAL COPING METAL COPING METAL COPING Formed (10" Parapet) Formed (12" Parapet) Extruded (8" Parapet)



METAL COPING METAL COPING METAL COPING Extruded (10" Parapet) Extruded (12" Parapet) Extruded (8" Parapet)



METAL COPINGS

DETAIL DATA CHECKLIST

- METAL COPINGS Materials, sizes and gauges:
 4" to 12" coping width: 24-ga. galvanized steel, 16-oz. copper, 26-ga. stainless steel, .232 alum.
 13" to 18" coping width: 22-ga. galvanized steel, 20-oz. copper, 24-ga. stainless steel, .040 alum.
 Provide expansion joints to allow for:
 1/2" thermal movement in a 40' length of galvanized steel
 1/2" movement for 40' copper
 3/4" movement for 40' aluminum

Dolails. nox

- Apply continuous interlocking cleats at bottom of coping at vertical edge to secure against wind uplift Use neoprene or similar watertight washer where cleats are nailed to wall

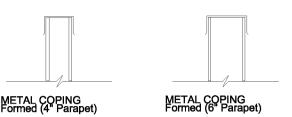
- Trouble spots:
 Corrosion from use of dissimilar metals, especially incompatible connectors
 Direct nailing or attachment of coping to wall surface that doesn't allow for differential expansion and contraction

NOTATION CHECKLIST, SAMPLE NOTES

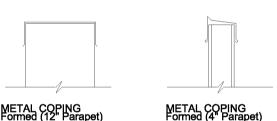
FORMED METAL COPING

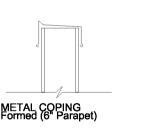
AP FLASHING, ATTACH @ CTR. OF EA. PIECE PING, SET W/MASTIC SEALANT @ SPLICE URED COPING & FLASHING SYSTEM LEAD OR ALUM CONT. CLEAT SEALANT SHIM (to slope)

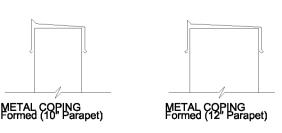
METAL COPINGS



METAL COPING Formed (8" Parapet) METAL COPING Formed (10" Parapet)







METAL COPING Formed (8" Parapet)

METAL COPINGS

DETAIL DATA CHECKLIST

METAL COPINGS^KMaterials, sizes and gauges: ____4" to 12" coping width: 24-ga. galvanized steel, 16-oz. copper, 26-ga. stainless steel, .232 alum. ____13" to 18" coping width: 22-ga. galvanized steel, 20-oz. copper, 24-ga. stainless steel, .040 alum. ____Provide expansion joints to allow for: 1/2" thermal movement in a 40' length of galvanized steel 1/2" movement for 40' copper 3/4" movement for 40' aluminum Apply continuous interlocking cleats at bottom of coping at vertical edge to secure against wind uplift Use neoprene or similar watertight washer where cleats are nailed to wall

Trouble spots:
 Corrosion from use of dissimilar metals, especially incompatible connectors
 Direct nailing or attachment of coping to wall surface that doesn't allow for differential expansion and ^lcontraction

NOTATION CHECKLIST, SAMPLE NOTES

FORMED METAL COPING ANCI-COVER-GUTTER COPING PREFIN. ALL FLASHING OV.

METAL CAPASHING, ATTACH @ CTR. OF EA. PIECE MTL. COPING, SET WIMASTIC SEALANT @ SPLICE JTS. ONLY MANUFACTURED COPING & FLASHING SYSTEM GI. FLASHING FLASHING ELASTOMERIC FLASHING OVER PLATE FLASHING APPLIED WIADHESIVE LEAD OR ALUMINUM FLASHING CONT. CLEAT SEMM (& slope)

METAL DECKS

METAL DECKS	METAL DECKS
METAL DECK Steel Deck W/Insul. & Slab	DETAIL DATA CHECKLIST METAL DECKS FOR FLORIS AND ROOFS
METAL DECK Steel Deck W/Insul. & Slab	NOTATION CHECKLIST, SAMPLE NOTES ROOFING SLAYERS & COVER MATERIAL) ROOF SLAB METAL DECK ROOF DECK INSULATION ROOF CONSTRUCTION/FRAMING CLOSURE BOLT WM SHEELLMI
METAL DECK Steel Deck W/Insul. Conc.	SHEET REOPE EXP. Both
METAL DECK Steel Deck W/Rigid Insul.	Olalis Dox

METAL DECK Steel Deck W/3" Insul.

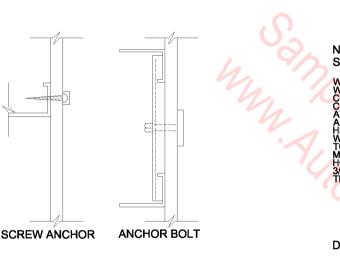
- Painted or galvanized to prevent corrosion
 Welded wire steel mesh for temperature reinforcement if using lightweight insulating concrete
- __weided wire steel mesh for temperature reinforcement if using lightweight insulating concrete Component sizes:
 __Centering* metal, 22, 24, 26 gauge with 2-1/2" to 4" wide corrugation, 1" deep, spans 2' to 10'
 __Narrow rib deck: 6" rib centers, 1-1/2" deep, 30" wide panels, spans 4' 8'
 __Intermediate rib deck: 6" rib centers, 1-1/2" deep, 30" wide panels), spans 5' 10'

ICRETE TWEIGHT CONCRETE V. CORRUGATED METAL DECKING R. METAL TE STIFFENER

FÜLER CLOSURE STRIP BOLT WINEOPRENE WASHER SHEFILMES A. FLASHING YMEGERENFRE ÖKKE NEOPRENE WASHERS EXP. BOLTS @ 24" O.C.

METAL FASTENINGS

METAL FASTENINGS



MOLLY BOLT **TOGGLE BOLT** NOTATION CHECKLIST, SAMPLE NOTES

WALL FRAMING
WALL FINISH
CONNECTOR
CONNECTOR REINFORCING
ATTACHED FIXTURE
ANCHOR TO BLOCK WALL W/EXPANSION ANCHORS

AT I AUT IN ANCHOR TO BLOCK WAS ANCHOR TO BLOCK WAS HER WAS HER TOP PAD MALE/FEMALE FASTENER THRU PRE-DRILLED HOLES 3/4" DIA. BOLT & LEAD PLUG THRU BOLT

DETAIL DATA CHECKLIST

METAL FASTENINGS
Wall-mounted fixtures and equipment are often packaged with the required anchors and fastenings so, in general, details only show generic dash- or dot-line indications of screw or bolt attachments.

Adequate backing, framing, blocking, or other mount supports are the most crucial aspect of detailing and constructing wall-hung fixtures, and the most common point of failure. The best rule is to over-design the attachment system as long as it isn't oversized for the item to be attached or for the support framing and backing

Lengths of boits range from 1 to 12"

Lengths of wood screws range from 1/4" to 6"

Toggle boits and Molly boits are for connections through the surfaces of hollow walls

(a spring or tumbler activated expansion device opens when the bolt is turned to grip the fastener to the wall)

Lag boits and expansion shields are for insertion in masonry walls

locked in)

(a lead or fiber casing in a pre-drilled hole will expand to grip the masonry wall when a lag bolt or machine bolt is

METAL FENCES

METAL FENCES

DETAIL DATA CHECKLIST

METAL FENCES

Metal fences are usually purchased ready-made, or fabricated as variations on

common metal fence types and styles.

Detail drawings are included mainly to show desired sizes and types and to indicate anchoring to the ground or pavement.

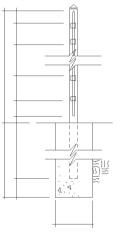
See manufacturers' and suppliers' catalogs for design data, details, and specifications.

See manufacturers' recommendations for anchoring.

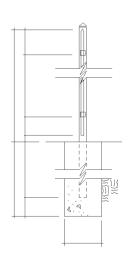
12" DIA. CONC. FOOTING COMPACTED FILL (below footing) COMPACTED EARTH FILL METAL POSTS (extend. 6" typ. thru conc. footing, max. spacing typ. 6'-7')

METAL FENCE

METAL FENCE



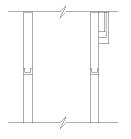
METAL FENCE



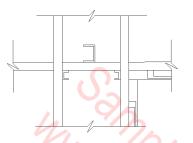
METAL FENCE

METAL FRAME CHASE WALLS

METAL FRAME CHASE WALLS



5" CHASE WALL Plan



CHASE WALL @ THRU SUSP. CLG.

DETAIL DATA CHECKLIST METAL FRAME CHASE WALLS

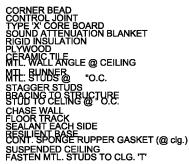
NOTATION CHECKLIST, SAMPLE NOTES

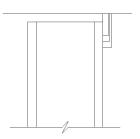
BLANNEL FLOOR BUNDER
BASE (FINISH BASE SIZEMATERIAL)
FINISH FLOOR/SUBFLOOR/SLAB
ADJACENT SLAB OR CEILING
CEILING RUNNER
CHANNEL STUDS
CROSS TIESWIRE TIES
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES/WATERPROOFING
HOOKSTRACKS/WALL-MOUNTED

FIXTURES
WALL ANCHORS/MOUNTING BRACKETS
RAILINGS/WALL GUARDS
THRU-WALL SLEEVES

GYPSUM BOARD
FIRE CODE GYP.BD.
WATER-RESISTANT GYPSUM BOARD
GYP.BD, TYPE 'X'.

Obelais, nex

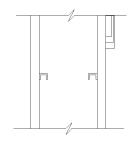




CHASE WALL @ CLG. OR SLAB



CHASE WALL @ FLOOR



CHASE WALL @ BRACING Sect.

\Box TO CORING TO THE PARTY OF THE P FURRED WALL @ CEILING FURRED WALL @ FLOOR FURRED WALL @ FURRED CEILING

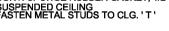
FURRED CEILING

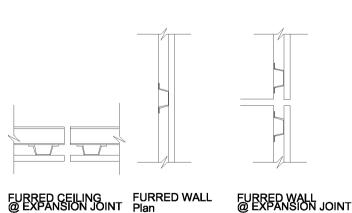
METAL FURRING -- WALLS & CEILINGS

METAL FURRING -- WALLS & CEILINGS

NOTATION CHECKLIST, SAMPLE NOTES NGER WIRE
1/2" CARRYING CHANNEL
1" FURRING CHANNEL
1" FURRING CHANNEL
1)JACENT WALL CONSTRUCTION
14NNEL STUDS
1RRING STUDS/BRACKET/TIE
1/25UM WALLBOARD CORNER BEAD

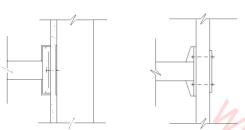
CONTROL JOINT SOUND ATTENUATION BLANKET RIGID INSULATION PLYWOOD METAL WALL ANNEL @ CLG. METAL WALL ANGLE @ CLG.
FURRING CHANNEL
METAL RUNNER
SUSP, MTL. FURRING CHANNEL
METAL STUDS @ 16" O.C.
STAGGER STUDS
BRACING TO STRUCTURE
STUD TO CLG. @ 48" O.C. STUD TO CLC. @ 48" O.C.
CHASE WALL
FLOOR TRACK
SEALANT FACH SIDE
REALANT FACH SIDE
CONT. SPONGE RUBBER GASKET, 1/2" X 3" (@ clg.)
SUSPENDED CEILING
FASTEN METAL STUDS TO CLG. 'T'



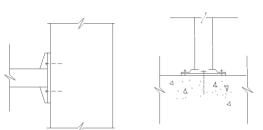


FURRED WALL @ FLOOR

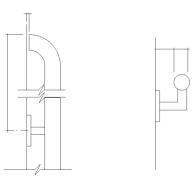
METAL HANDRAILS



RAILING @ WOOD FRAME WALLRAILING @ METAL PARTITION



RAILING @ MASONRY OR CONCRAIL POST @ SLAB



STAIR HANDRAIL Wall-Mounted STAIR HANDRAIL Wall-Mounted

METAL HANDRAILS

DETAIL DATA CHECKLIST

- HANDRAILS, BRACKETS, AND ANCHORS
 Wall connection systems include:

 __Horizontal steel stud fastened to vertical metal wall studs; anchor handrail through wall with expansion

- Metal spacer set in plaster wall with space for expansion bolt insert

 Expansion bolts in concrete or masonry walls threaded end connection for handrail support

 Cast in place brackets, such as for newels and handrail posts supported at the edge of landings and floor
- slabs
 Wall-mounted handrails must be at least 1-1/2" from the wall and not intrude on the legally required stair width
- All railings must be able to sustain a load of 200 pounds applied in any way at any point
- Ends of handrails must be turned into newel posts, floors, to walls
- See manufacturers' catalogs and building code requirements for additional detailing instructions, references, and sample notation

NOTATION CHECKLIST, SAMPLE NOTES

HANDRAIL (MATERIAL & SIZE)

ANCHBALTS WEAR (Type & SIZE)

YIAL TARING, WEILD & GRAND 136 INTS SMOOTH,

PIPE HANDER L. WELD & GRIND JOINTS SM PIPE HANDER L. WELDED CONNECTION, GRIND SMOOTH, PAINTED SITE WELT SEPPORTS 124-845.C.

PIPE VERT. SUPPORTS @ 4'-0" O.C.

MAX. SPACING
INTERMEDIATING HORIZ. & VERT. ALL
JOINTS TO BE WELDED, GRIND SMOOTH
STEEL PIPE SLEEVE
WELD ALL AROUND, TYP.
STEEL PIPE SLEEVE, FILL WMOLTEN LEAD

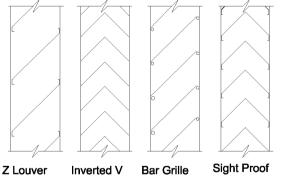
Als nox

COUNTERSUNK HOLE FOR POURING LEAD;
INSERT 1/4" FLAT HEAD METAL SCREW INTO LEADSEAL JOINT WITH NON-PREFORMED JOINT SEALANT
BEFORE PAINTING
GROUT FILL BEHIND BRACKET
STAINLERS STEEL BLATE
METAL BRACKETS @ 48" O.C. MAX. & WITHIN
12" OF ENDS METAL BRACKETS @ 48" O.C. MAX. & WITHIN SUPPORTS ENDS 4.0" O.C. MAX. SPACING ANCHOR BOLTS. MAX. SPACING ANCHOR BOLTS. WELD TO PLATE, GROUT IN PLACE BED PLATE IN SEALANT FOR EXTERIOR USE CAST WALL BRACKET @ 4"NGO.C., SECURE TO CONC. SMALL WANGED BE STERNED STELLS TO CONST. WALL BRACKET. WALL BRACKET METAL SPACER METAL BACKING EXPANSION BOLTS

METAL LOUVERS

Metal Louvers -- 2" Wide Sight Proof Bar Grille Z Louver Inverted V

Metal Louvers -- 4" Wide



METAL LOUVERS

DETAIL DATA CHECKLIST

METAL LOUVERS

- See manufacturers' catalogs for standard sizes, finishes, and materials.

 Detail drawings are included mainly to show special anchoring conditions--screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction.

 See manufacturers' and suppliers' catalogs for detail design data and specifications.

 See manufacturer's recommendations for special anchor requirements for different kinds of construction.

NOTATION CHECKLIST

L FRAME ANCHOR INSECT SCREEN/BIRD SCREEN WEEP HOLES

Dolails. nox

METAL STAIRS

METAL STAIR Pan Type, Cement Treads METAL STAIR Pan Type, **Cement Treads** 0 METAL STAIR Open Riser, Steel Tread METAL STAIR Open Riser, Grate Type

METAL STAIRS

DETAIL DATA CHECKLIST

STEEL STAIRS
Steel stairs are required for incombustible fire exits, often fabricated to order in specialty shops and shipped to the site for installation. See your building code for design requirements.

- Component sizes:
 __Typical stringer is C12 (12" channel) or C10, 15.3 steel
 __Steel channel at edge of reinforced concrete landings to match stringer size

- 1/4" thick steel plate angle connectors

 5/8" diameter bolt connections to structure or welded to steel framing

 Two 1/2" or 5/8" anchor bolts through plate at base of each stringer for floor connection
- Treads:
- reads:
 Pan type with cement and non-slip surface
 Provide landings at every 15 risers maximum
 Non-slip steel -- ribbed, perforated, checkered, or grate -- with open riser
 Precast concrete on brackets atop stringer or on angles welded to channel stringer
- Design rules of thumb:

- Design rules of thumb:

 An overall stair angle of 30 to 35 degrees is most comfortable to use

 Treads and risers must not vary in size over 1/8" at any point in the run

 Optimum riser size is 7 to 7-1/2" with optimal tread of 9-1/2" to 10-1/2"

 Provide dirt-blocking angle "sanitary cove" at bottom edges of closed
- risers

NOTATION CHECKLIST. SAMPLE NOTES

CONCRETE TREAD/REINFORCING
STEEL PAN
STEEL CARRIER ANGLE
CHANNEL STRINGER
OPEN GRATE TREAD
STEEL CHANNEL STRINGER
ANCHORSTREAD SUPPORT
FIN. FLOOR ELEV.
PRECAST TERRAZZO
CEMENT
MESH REINFORCING
POURED IN PLACE TREADS
STEEL STAIR TREAD
SAFETY ABRASIVE NOSING
CHECKERD PLATE NOSING
CHECKERD PLATE NOSING
CHECKERD PLATE NOSING
TSETTING BED. TREADS & RISERS
REINF. MESH, ATTACH WTACK WELDS
TO MIT. CUIT MORTAR BED & REINF.
@ JUNCTURE OF TREAD & RISER
CHAÑNEL, SEE STRUCTURAL DWGS.

STEEL GRATING WITH BEARING BARS & CROSS BARS
CHANNEL STRINGER
1/4* BOLTS
EXPANSION BOLTS
STEEL PLATE AND & 2" O.C. RISER WORK
POINT
PLUG WELDS
STEEL ANGLE
COUNTERSUNK BOLT
COUNT. 3" X 3" X 1/4" ANCHOR TO
WELD'S ANGLE
COUNTERSUNK BOLT
COUNT. 3" X 3" X 1/4" ANCHOR TO
WELD'S ANGLE
CHANNEL HEADER BY STAIR MFR.
CARRIER ANGLE
CHANNEL HEADER BY STAIR MFR.
CARRIER ANGLE
A

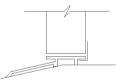
METAL THRESHOLDS



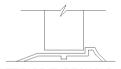
Interlocking



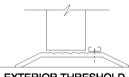
EXTERIOR THRESHOLD Interlocking



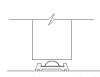
EXTERIOR THRESHOLD Interlocking



EXTERIOR THRESHOLD Flat Saddle



EXTERIOR THRESHOLD Flat W/Latch Track



EXTERIOR THRESHOLD Vinyl Insert

METAL THRESHOLDS

DETAIL DATA CHECKLIST

THRESHOLDS

Note: You can combine these threshold details with varied flooring details in this book to create many special

combinations.

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Thresholds are primarily to hide the joint-line at changes in flooring and block weather, air infiltration and sound Detail drawings are mainly to show:

The profile of thresholds

Floor construction

Change in floor materials at joint lines
Connection to the floor

Exterior caulking, flashing, weatherstripping
 Required special sound or light insulation
 See manufacturers' recommendations for connections to varied floor construction.

NOTATION CHECKLIST. SAMPLE NOTES

DOOR TYPE HOOK STRIP BUMPER STRIP CAULKING OR PAN W/WEEP

DOOR, SEE DOOR SCHEDULE SHOLD

SHOLD

L THRESHOLD SET IN CAULK

LE & PLATE SIZE VARY W/HINGE SIZE

ORS

BUMPER STRIP FLOORING, SEE FINISH SCHEDULE

METAL TOILET PARTITIONS

METAL TOILET PARTITIONS

DETAIL DATA CHECKLIST

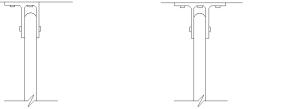
METAL TOILET PARTITIONS

- See manufacturers' catalogs for standard sizes, finishes, and materials.

 Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete wall construction.

 See manufacturers' and suppliers' catalogs for detail design data and specifications.

 See manufacturer's recommendations for special anchor requirements for different kinds of construction.



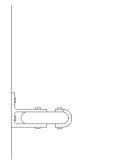
METAL TOILET PARTITION



METAL TOILET PARTITION

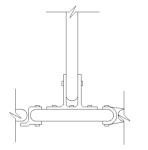


STEEL CHANNEL CONT. @ PARTITIONS, DRILL BOTTOM FOR SUPPORT BOLTS BY PARTITION MFR. CEILING LINE.
PROVIDE DRILLED HOLE, SLEEVE & INSERT @ CLG. TO SUPPORT BOLT PENETRATION AS REQ'D. TOILET PARTITION & CLG.-MOUNTED ASSEMBLY BY PARTITION MFR.
TOILET PARTITION BOLT ASSEMBLY BRACE TO STRUCTURE ABOVE CEILING-HUNG UNITS

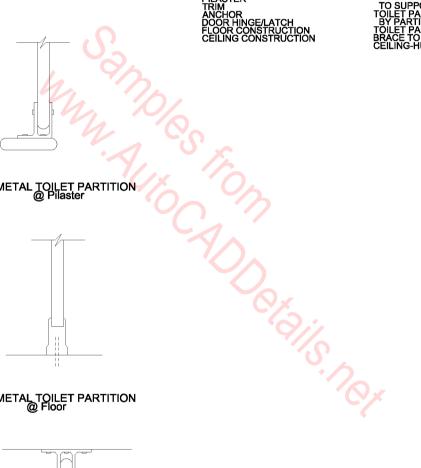


METAL TOILET PARTITION @ Wall

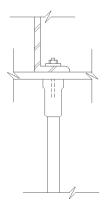




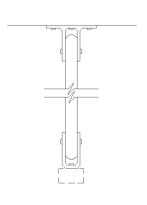
METAL TOILET PARTITION @ Door



METAL TOILET PARTITION @ Floor



METAL TOILET PARTITION
@ Ceiling



METAL TOILET PARTITION @ Wall & Post

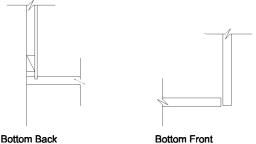
OVERHEAD CABINETS

OVERHEAD CABINETS



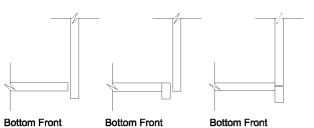
NOTATION CHECKLIST, SAMPLE NOTES

INISH SURFACE LYWOOD/PARTICLE BOARD RIM (MATERIAL & SIZE) LOCKING (MATERIAL & SIZE) DRAWER DE BLOCKING TO RECEIVE MILLWORK BACK <u>H</u>ARDBOARD OR PLYWD. BACK A 4 FRAMING 4" PLYWD. BOTTOM W/ WOOD EDGING HAMFERED TRIM PIECE LUSH DOORS, OAK VENEER ON PLYWD. 3/4" X 3-1/18" HARDWOOD EDGE, EASE EDGES 2 X 4 FRAME @ FLOOR ADJUSTABLE SHELVES RECESSED SHELF STANDARDS SURFACE MOUNTED ADJ. SHELF STD'S. W/ BRACKETS EIVEN SUFI E SHELF W/ 1X2 SUPPORT CLEAT & E STRIP 1 X 3 EDGE STRIP 1 X 12 BYRDER & PARKUNMAX. 34" PWAY SUBJEKE & WALPWRCFOR W 1/4" DIA. TOGGLE BOLTS @ 24" O.C. STEEL CHANNEL 1-0" O.C. & LAV. PERIMETER W/ STUDS @ T-U O.C. @ LAV. PERIMETER
DRAWER
SOLID WOOD DRAWER SIDES, HDWD. DRAWER
FRONTS
DRAWERS ON EXTENSION SLIDES
1/4" DRAWER BOLTOM
3/4" X 1.3/4" RAILS & STILES
SLIDING GLASS DOORS IN K-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS



Bottom Back

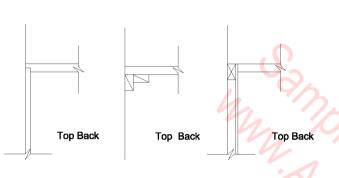




OVERHEAD CABINETS

OVERHEAD CABINETS

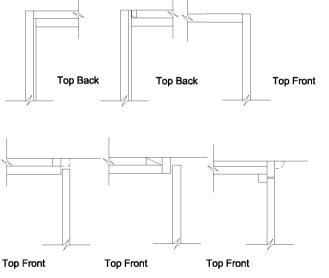
Dolais, nox



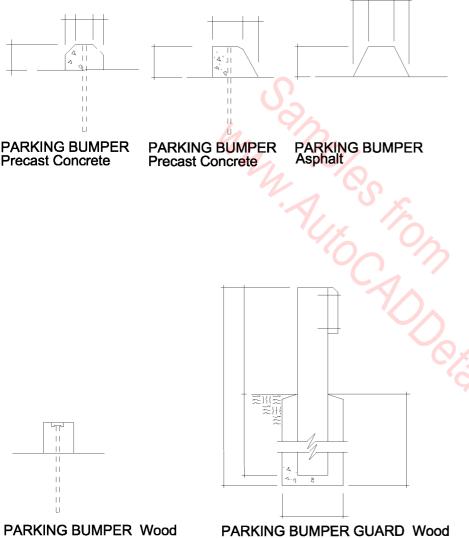
NOTATION CHECKLIST,
SAMPLE NOTES
FINISH SURFACE
LYWOOD PARTICLE BOARD
TRIM MATERIAL & SIZE)
ADJACENT MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWAREJANCHOR
DOOR/DRAWER
PROVIDE BLOCKING TO RECEIVE MILLWORK ITEMS
PLASTIC LAMINATE
34" PLYWOOD TOP WHARDWOOD EDGING
PLASTIC LAMINATE
PLASTIC LAM BACKING SHEET
PLASTIC LAM SORIBE STRIP
BLASTIC LAM SCRIBE STRIP
BLASTIC LA

SPLASH
PLASTIC LAM. SCRIBE STRIP
3/4" PLYWOOD DIVIDERS
1/4" PLYWOOD BACK
1/4" PLYWOOD BACK
2 X 4 FRAMING
3/4" PLYWOOD BOTTOM WWOOD EDGING
CHAMFERED TRIM PIECE

FLUSH DOORS, OAK VENEER ON PLYWOOD
3/4" X 3-1/16" HARDWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOWOOD EDGE, EASE EDGES
2 X 4 FRAME @ FLOWOOD SHELF STO'S. W/ BRACKETS
FIXED SHELF
3/4" PLYWD. SHELF W/1X2 SUPPORT CLEAT &
1 X 3 EDGE STRIP
1 X 12 DIVIDER @ 44" OC. MAX.
3/4" PLYWOOD SHELF W/1X2 SUPPORT CLEAT &
1 X 12 DIVIDER @ 44" OC. MAX.
3/4" PLYWOOD SHELF W/1X4" OC. STEEL CHANNEL AT ACHED TO END WALL
W/ STUDS @ 1-0" O.C. @ LAV. PERIMETER
DRAWER SON EXTENSION SLIDES
1/4" DRAWER BOTTOM
3/4" X 1-3/4" RASS DOSTIES V-V TRACK,
PROVIDE FINGER PULLS & LOCK, SAFETY GLASS



PARKING BUMPER



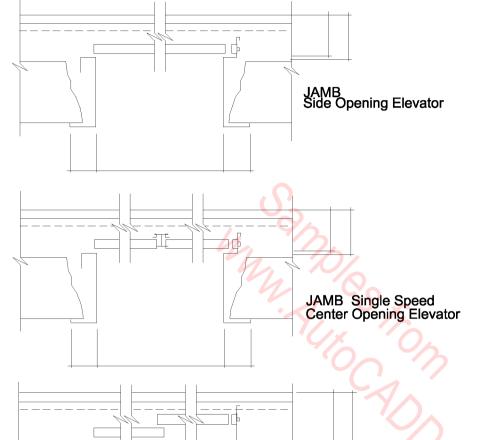
PARKING BUMPER

```
DETAIL DATA CHECKLIST
  PARKING BUMPERS
Precast concrete
3/4" chamfer is typical
Available in 4' to 5' lengths
Anchor with 3/4" round, 24" long pipe anchor, 2 per bumper
        OR
Use 2 #5 bars, 18" long
Water drains may also be provided in longer bumpers
(3-1/2"x 1-1/2" holes at bottom of bumper)
Doweled Curb
Form on paving surface
               Form on paving surface
Reinforce with #4 bars vertically @ 4' o.c.
         Extruded Curb
                Epoxy to paved surface
               Typical size is 8"x8"
 NOTATION CHECKLIST,
 SAMPLE NOTES
 BUMBER CURB(TYPE & MATERIAL)
DOWEL/ANCHOR
MASTIC
PAVING/BASE/SUBGRADE
(A typ. width of wheelstop 6' to 7', typ. ht. 6" to 7-1/2", typ. depth 8" to 10" w/ angled or chamfered sides) (typ. rebar location 12" to18" from each end)
(typ. rebar location 12" to18" from each end)
3/4" CHAMFER
PRECAST CONC. WHEELSTOP W/ #5 DIA. DIAGONAL
REBAR REINF., SECURE W/
2 - 5/8" X 1'-0" REBAR DOWELS
2 - 3/4" HOLES THRU CURB
W/ 2 - #5 BARS 18" LONG
3000 PSI CONC. W/ 3 - #3 BARS
PAINTED STRIPES
PARKING STALL
2 - 1/2" (ht.) X 3-1/2" WATER DRAINS
20" FROM EACH END
ASPHALTIC CURB CONT
PRECAST BUMPER W. ANCHOR, 5/8" X 16" STL
PIN @ EACH END
 (for wood)
(10r wood)

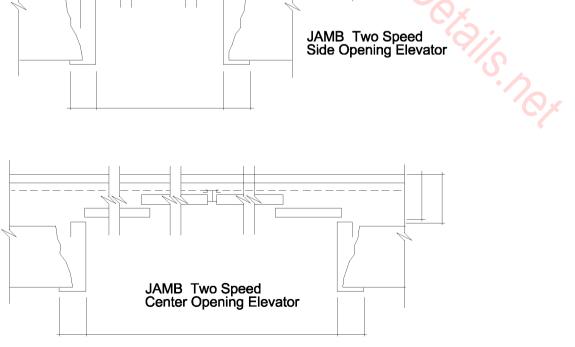
1/2" CARRAGE BOLTS
3" X 10", BEVEL TOP EDGE(rail)
6 " X 6" H 20.0 (posts: ht / ftg. varies, for example -21" ht. above fin. grade, in 24 " conc. fill in form below grade)

PAINTING NOTE: BUMPER GUARD - WHITE, POSTS - BLACK, NAMEPLATES - BLACK ON WHITE,
        UPPER CASE LETTERS 1-1/2" HIGH
```

PASSENGER ELEVATORS



JAMB Two Speed Side Opening Elevator



PASSENGER ELEVATORS

NOTATION CHECKLIST:

FINISHED SILL PROJECTION
PLATFORM
RUNNING CLEARANCE
STRUCTURAL SILL
FASCIA
FINISHED HEADER/JAMB/THRESHOLD

PASSENGER ELEVATORS

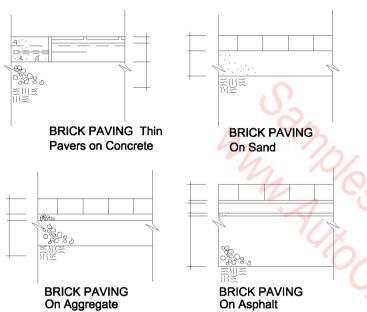
Center & HEAD & SILL Single Speed Center & Side Opening **HEAD & SILL** Two Speed Center & Side Opening

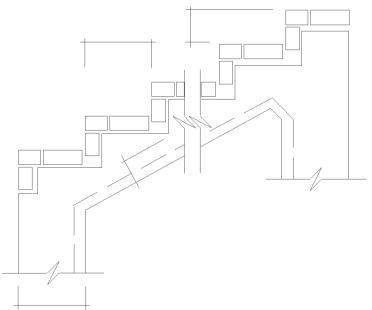
PASSENGER ELEVATORS

NOTATION CHECKLIST

FINISHED SILL PROJECTION
PLATFORM
RUNNING CLEARANCE
STRUCTURAL SILL
FASCIA
FINISHED HEADER/JAMB/THRESHOLD

BRICK PAVING EDGE On ConcreteRICK PAVING EDGE On Concrete





PAVING & PAVERS

```
ızes:
_4x4, 4x8, 4x12, 6x6, 8x8, 12x12
_Hexagons: 5-3/4, 8, and 12 inches
_Depth 1-1/8" to 2-1/4"
Waterproof by placing brick over:
__15 lb. roofing felt, over 1/2" to 1" stone screenings, over 4" gravel
Over 2 neoprene tack coat over 3/4" bituminous setting bed, over cutback asphalt primer,
__Mortari pints
_Require careful tooling to block moisture
__Sand poured into the joints
    Nothing in the joints
Lay over:
3" or thicker concrete slab
     Over 3/4" mortar setting bed
     4" asphaltic concrete
  Over 3/4" bituminous setting bed
     _2" to 4" sand base
__Over 15 lb. felt
        Over firm soil Brush dry sand into joints
        Tamp and level sand
        Add mix of cement with sand for tighter joints
Provide solid border board support or joints will open and pavers will dislodge
```

NOTATION CHECKLIST, SAMPLE NOTES

PAVER UNITS SETTING BED CONCRETE REINFORCING CONTROL/EXPANSION JOINTS (TYPE & SPACING) AGGREGATE BASE COMPACTED SUBGRADE

BRICK PAVING

AGREGATE BASE
COMPACTED SUBGRADE

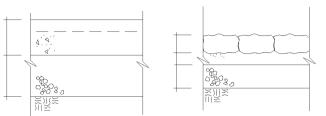
ORIGINAL GRADE
FINISH GRADE
PROVIDE CROWN IN CENTER FOR DRAINAGE
SLOPE 1/4" PER FOOT, TYP.
CONCRETE W. 6 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 X #10/#10
CONC. WALK W. 6 X 6 10/10 W.W.M.
BEDWOOD HEART WOOD JOINT FILLER STRIP
TOOLED JOINT S. 6 - 0" JO.

1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD
JOINT SILLER BOARD
1 DIA (3/4" to 1" typ.) X 18" DOWEL BARS
1/" O. C. ACROSS T. 4" OIL ONE END OF DOWEL
EXPANSION JOINT FILLER MATERIAL @ 16" O.C. MAX.
GALV. METAL KEYWAY W/ EDGE EXPOSED
COMMY JOINTS & 5-0" O.
PRE-MOLDED EXPANSION JOINT @ 20'-0" O.C. TYP.
PAVING BRICKS IN SETTING BED
SLOPE TO DRAIN AS INDICATED ON PLANS
BRICK ROWLOCK PAVER
SLAB REINF., SEE
VAPOR BARRIER
COMPACTED GRANULAR FILL
4" PEA GRAVEL
SAND CUSHION
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
4" PEA GRAVEL
SAND CUSHION
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
GENERAL STRUCTURAL BACKFILL
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
GENERAL STRUCTURAL BACKFILL
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
GENERAL STRUCTURAL BACKFILL
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
COMPACTED SUBGR

IRON ORE BASE

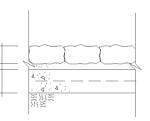
BRICK STEPS On Concrete

FULL-SCALE GENERIC DETAILS



CONCRETE PAVING 6" Driveway

ASPHALT BLOCK NG d/Gravel PAVING On



ASPHALT BLOCK PAVING On Concrete

PAVING & PAVERS

DETAIL DATA CHECKLIST

```
CONCRETE PAVING
Recommended thicknesses for concrete slabs are:
      4" for walks, patios, and drives
   5" to 6" for roads, public sidewalks, and areas with heavy vehicular traffic
   Pour slab over a gravel base 4" to 8" thick, depending on thickness of concrete and nature of soil
   Slope surface of slab 2 or 1/4" per lin. foot minimum
   Surface treatments:
   To reduce slipperiness:
      Broom finish
     Spread abrasive grains on wet concrete
     To achieve exposed aggregate surface:
     Sandblast
     Finish top slab with light water spray before curing and brushing
     Reinforce slab with 4x4x4/4 or 6x6x10/10 woven wire mesh (WWM)
     Provide 2" cover over the reinforcing
   Expansion Joints:
     Placement varies with climate
     Average 30' o.c. in walks
     15' to 20' squares in larger areas of concrete
   Dowelling:
     1/2" to 1" diameter dowel in sleeve, coated with graphite; 12" to 24" long.
  12" to 36" o.c.
Gap in slab filled with premolded or poured joint filler
      Control Joints:
      Can be tooled or saw cut
      Can be tooled or saw cut

1/8" thick nonferrous strip, or poured joint filler, or no filling

Joint must be 1/4 of the depth of the slab to be effective

Edges of slab at joint should have1/8" radius

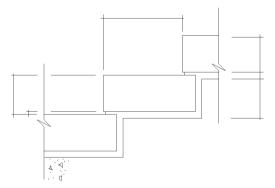
Joints may be dowelled (as above), without sleeve
   ASPHALT CONCRETE PAVERS
   Sizes for concrete:
     4x8, 8x8, 6x12, 12x18, 12x24, 18x18, 24x24 square; 24x30, 24x36, and 24" hexagon
      Depth: 2" to 4"
     OR
Lay pavers over 2" of sand, over 2" to 5" of gravel
Over 3/4" bituminous setting bed, over a concrete slab
     Lay interlocking concrete pavers with sand-filled joints over 1-1/2" of sand, over 2 courses of gravel (8")

Asphalt sizes: 5x12, 6x12, 8x8, and 8" hexagon
      Depth: 1-1/4" to 3"
     Provide solid border edge support, or joints will open and pavers will dislodge
     NOTATION CHECKLIST.
     SAMPLE NOTES
     PAVER UNITS
SETTING BED
CONCRETE
REINFORCING
```

SLOPE CONTROL/EXPANSION JOINTS (TYPE & SPACING) AGGREGATE BASE COMPACTED SUBGRADE COMPACTED SUBGRADE

ORIGINAL GRADE
FINISH GRADE
FINISH GRADE
STORY OF THE FOR DRAINAGE
SLOPE 14" PER FOOT TYP.
CONCRETE W. 6 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 X #10#10
CONC. SLAB W. 6 X 6 10/10 W.W.M.
BEDWOOD HEARTWOOD JOINT FILLER STRIP
TOOLED JOINTS @ 6-10 C.
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD
JOINT SO.C. ACCOSS SLAB
12" O.C. ACCOSS SLAB
12" O.C. ACCOSS SLAB
EXPANSION JOINT FILLER MATERIAL @ 16" O.C. MAX.
GALV. METAL KEYWAY W/ EDGE EXPOSED
DOMMY JOINTS @ 5-0" O.C.
PRE-MOLDED EXPANSION JOINT @ 20'-0" O.C. TYP.
PAVING BRICKS IN SENTING BED
SLADET OF SRAIN AS INTOGRATED PŘE-MOLDED EXPÁNSION JOINT @ 20'-O" O.C. TYP.
PAVING BRICKS IN SETTING BED
SLOPE TO DRAIN AS INDICATED ON PLANS
BRICK ROWLOCK PAVER
SLAB REIM: SEE
VAPOR BARRIER
COMPACTED GRANULAR FILL
4" PEA GRAVEL
SAND CUSHION
COMPACTED EARTH FILL AS REQ'D.
COMPACTED EARTH FILL AS REQ'D.
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL
"CRUSHED AGGRAGATE BASE (@ 6" conc. paving)
6" CRUSHED AGGRAGATE BASE (@ 2" asphalt paving)
IRON ORE BASE

a. STONE PAVING STONE PAVING On Concrete On Concrete STONE PAVING STONE PAVING On Sand On Sand/Gravel CONCRETE BLOCK **GRID PAVERS**



STONE STEPS On Concrete

PAVING & PAVERS

DETAIL DATA CHECKLIST STONE PAVING

Granite paver sizes:

4x4, 4x8, 5x8, 8x8, 12x12

Depths: 2", 3", 4", and 10"

Install granite on rigid base and mortar for stability and/or if there will be heavy traffic

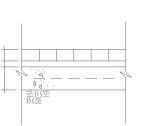
Install on flexible base for light traffic Slate sizes: __4" min. widths x random lengths Depths: 3/4" to 2-1/2" Install slate on flexible base with no mortar; keep well drained Stone thickness in general: _3/4" thick if laid on mortar setting bed _1-1/2" minimum thickness if laid on sand Provide solid border edge support, or joints will open and pavers will dislodge NOTATION CHECKLIST, SAMPLE NOTES PAVER UNITS
SETTING BED
CONCRETE
REINFORCING
SLOPE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)

AGGREGATE BASE COMPACTED SUBGRADE

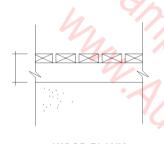
ORIGINAL GRADE
FINISH GRADE
FINISH GRADE
PROVIDE CROWN IN CENTER FOR DRAINAGE
SLOPE 1/4" PER FOOT, TYP.
CONCRETE W. 6 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 X #10/#10
CONC. WALK W. 6 X 6 10/10 W.W.M.
REDWOOD HEARTWOOD JOINT FILLER STRIP
TOOLED JOINTS @ 6-0" O.C.
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD

POINT FILLER BOARD
1"DIA (3/4" to 1" typ.) X 18" DOWEL BARS
12" O.C. ACROSS SLAB
12" O.C. MAX.
14" O.C. MAX.
15" O.C. TYP.
15" O.C. TYP.
15" O.C. TYP.
15" O.C. TYP. PRE-MOLDED EXPANSION JOINT @ 20-0" O STONE PAVERS PAVING BRICKS IN SETTING BED SLOPE TO DRAIN AS INDICATED ON PLANS BRICK ROWLOCK PAVER SLAB REINF., SEE VAPOR BARRIER COMPACTED GRANULAR FILL 4" PEA GRAVEL 4" PEA GRAVEL SAND CUSHION COMPACTED EARTH FILL AS REQ'D. COMPACTED EARTH FILL AS REQ'D. COMPACTED SUBGRADE OR STRUCTURAL BACKFILL 8" CRUSHED AGGRAGATE BASE (@ 6" conc. paving) 6" CRUSHED AGGREGATE BASE (@ 2" asphalt paving) IRON ORE BASE

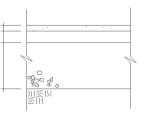
PAVING & PAVERS



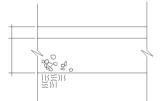
WOOD BLOCK PAVING On Concrete



WOOD PLANK WALKWAY



ASPHALTIC CONCRETE PAVING



ASPHALT PAVING

DETAIL DATA CHECKLIST

WOOD BLOCK OR TIMBER SECTIONS PAVERS
Preservative treated
2" minimum depth crosscut, 3" minimum rip cut
Timber sections 4" to 6" thick are common
Lay in 4" sand bed

NOTATION CHECKLIST, SAMPLE NOTES

PAVER UNITS
SETTING BED
CONCRETE
REINFORCING
SCOPEROLEXPANSION JOINTS (TYPE & SPACING)
AGGREGATE BASE
COMPACTED SUBGRADE

ORIGINAL GRADE
FINISH GRADE
FINISH GRADE
FINISH GRADE
PROVIDE CREEFOR IN CENTER FOR DRAINAGE
SLOPE 1/4* PER FOOT, TYP.
CONC. SLAB W. 6 X 6 - 10 GAUGE WIRE MESH
CONC. SLAB W. 6 X 6 10/10 W.W.M.
BEDWOOD HEART WOOD, JOINT FILLER STRIP
TOOLED JOINTS @ 5-0* C.C.
1/2" EXPANSION JOINT
JOINT SEALANT & JOINT FILLER ROD
JOINT FILLER BOARD

1"DIA (3/4" to 1" typ.) X 18" DOWEL BARS

12" O.C. ACROSS SLAB
(2" exp. its:] PAINT & OIL ONE END OF DOWEL

EXPANSION JOINT FILLER MATERIAL @ 16" O.C. MAX.

GALV. METAL KEYWAY W/ EDGE EXPOSED

CALV. METAL KEYWAY W/ EDGE EXPOSED

CHAWAY JOINT & 5" O'. O.C.

PRE-MOLDED EXPANSION JOINT @ 20'-0" O.C. TYP.

PAVING BRICKS IN SETTING BED

SLOPE TO DRAIN AS INDICATED ON PLANS

BRICK ROWLOCK PAVER

VAPOR BARRIER

COMPACTED GRANULAR FILL

4" PEA GRAVEL

SAND CUSHION

COMPACTED EARTH FILL AS REQ'D.

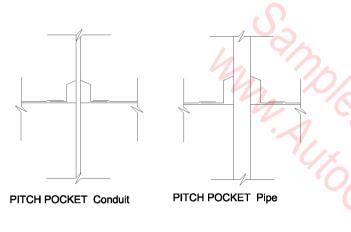
COMPACTED EARTH FILL AS REQ'D.

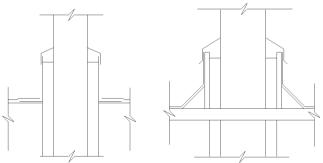
COMPACTED SUBGRADE OR STRUCTURAL BACKFILL

8" CRUSHED AGGRAGATE BASE (@ 6" conc. paving)

6" CRUSHED AGGREGATE BASE (@ 2" asphalt paving)

PITCH POCKETS





PITCH POCKET Pipe or Structural PITCH POCKET Pipe or Structural

PITCH POCKETS

DETAIL DATA CHECKLIST

PITCH POCKETS

Pitch pockets are enclosed caulk-filled holes or pans around a pipe, conduit, or structural support that penetrates

a roof. Ideally, pipes, conduit, or structural supports should not penetrate a roof surface. Such penetrations require extra maintenance and are likely to be a source of leaks. In general, the best rule is to avoid roof-mounted equipment as much as possible.

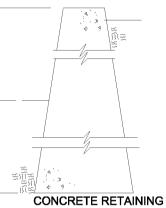
If such work has to be done, the connections should be in the form of well-caulked and sealed pockets. Hot-or cold-applied bitumin with fiber filler is poured or packed around the penetration, sometimes in a galvanized steel pitch pan. Then it's covered with flashing and a cap or counterflashing and integrated with the roofing seal. Coordinate the detailing for such work with the structural engineers and make sure it's reviewed during the roofing preconstruction meeting.

This work should be part of the roofing contract and included in the roofing warranty.

NOTATION CHECKLIST, SAMPLE NOTES

PIPE/STRUCTURAL SUPPORT (MATERIAL & SIZE) CAP FLASHING PITCH PAN/PITCH WELL PITCH/FLASHING COMPOUND PITCH/FLASHING COMPOUND
CANT/NAILER
RODEING SIREACE
(1YPE, LAYERS & COVER MATERIAL)
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
PITCH POCKET FILLED BY ROOFER
SEALY.
METAL UMBRELLA, ROUND,
WIDRAW BAND
GALV. METAL PITCH POCKET FILLED
WIFLASHING, CEMENT
AGA GALV. STEEL CAP FLASHING,
WELD OR SEAM ALL SEAMS & JOINTS
24 GA. GALV. STEEL PITCH PAN,
EXTEND FLANGE 4" ONTO ROOF
NAILERS
BASE FLASHING
INSULATION

RETAINING WALLS

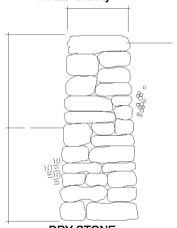


WALL Gravity

MASONRY

Brick & HMU

RETAINING WALL



DRY STONE RETAINING WALL

RETAINING WALLS

DETAIL DATA CHECKLIST

RETAINING WALLS
__Ground slope of 45 degrees or greater requires cribbing or retaining walls
__Walls to 3' high--simple concrete, wood, or planter walls OK
__Walls over 3' --L, T retaining walls or gravity wall
__Waterproof the earth fill side of wall

Backfill with gravel, with drainpipe above the footing
Pipe should drain to storm sewer (may be connected to building footing drains)

Place filter cloth between gravel and soil backfill

Place filter cloth between gravel and soil backfill

Use Type S mortar for resistance to hor izontal forces

BRICK AND BLOCK MASONRY RETAINING WALLS (For walls with minimum horizontal loads only)

Use SW grade brick for weather resistance

Top of footing below the frost line

Provide cap or coping

Joints—tooled S or V mortar joints for maximum weatherproofing

Expansion joints—vertical joints at 50' minimum

Horizontal and vertical reinforcing as per Brick Institute handbook

DRY STONE GRAVITY RETAINING WALLS
Tilt stones into the hill
Batter the wall 2" high

Base typically 16" wide

Backfill with gravel, with drainpipe along base of wall at bottom of gravel

NOTATION CHECKLIST. SAMPLE NOTES

TOP OF WALL ELEVATION
EINISH GRADES
EINISH GRADE (DASHED)
EXPANSION JOINTS (TYPE & SPACING)
MASONRY UNIT (TYPE & SIZE)

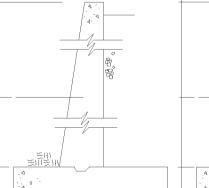
MASONRY UNIT (TYPE & SIZE)
REINFORCING
WEEP HOLES (SIZE & SPACING)
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL BACKFILL
FOOTING
DAMPPROOFING
POROUS BACKFILL
AGGREGATE BASE

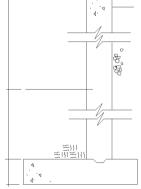
RETAINING WALLS

CONCRETE RETAINING WALL L Type



CONCRETE RETAINING WALL L Type





CONCRETE RETAINING WALL T Type

CONCRETE **RETAINING WALL T** Type

RETAINING WALLS

DETAIL DATA CHECKLIST

- CONCRETE RETAINING WALLS

 Ground slope of 45 degrees or greater requires cribbing or retaining walls

 Walls to 3' high--simple concrete, wood, or planter walls OK

 Walls over 3' --L, T retaining walls or gravity wall

 Place bottom of footing at frost line

 Provide 3" minimum cover for rebar

 Provide 3" diameter weep holes at 4' o.c. (maximum 10' apart)

 Anchor wall segments to each other at movement joints with:

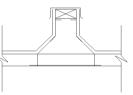
 Install 1/2" vertical expansion joints every 50' Install 1/2" vertical expansion joints every 55
 OR
 Install contraction joints every 25' (1" wide tapered to 1/2" depth)
 Seal expansion and contraction joints with waterstops
 Tapered 2x4 formed vertical key in first pour
 1/2" horizontal steel rods, 12" long min. @ 12" spacings with movement sleeves on one side
 Waterproof the earth fill side of wall
 Backfill with gravel, with drainpipe above the footing
 Pipe should drain to storm sewer (may be connected to building footing drains)
 Place filter cloth between gravel and soil backfill

NOTATION CHECKLIST, **SAMPLE NOTES**

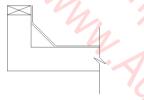
SAMPLE NOTES
TOP OF WALL ELEVATION
EINISH GRADE (DASHED)
EXPANSION JOINTS (TYPE & SPACING)
MASONRY UNIT (TYPE & SIZE)
WEEP HOLES (SIZE & SPACING)
AGGREGATE DRAIN BED
DRAIN PIPE/JORAIN TILE
COMPACTED SUBGRADE/STRUCTURAL BACKFILL
FOOTING
POROUS BACKFILL
AGGREGATE BASE Jalls nox

ROOF CURBS

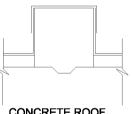
PREFAB ROOF PREFAB ROOF **PREFAB WIRS**ulation CURB ROOF CURB



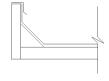
PREFAB ROOF CURB W/Insulation



CONCRETE ROOF CURB



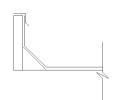
CONCRETE ROOF **CURB**



WOOD OR PREFAB ROOF CURB W/Insulation



CURB



WOOD OR PREFAB ROOF CURB

ROOF CURBS

DETAIL DATA CHECKLIST

ROOF CURBS

__Curbs are to prevent water entry to roof expansion joints, skylights, roof hatches, etc.
__Curb materials:

Wood sleepers nailed or bolted to roof substrate

Concrete sections

Prefabricated metal

Installation:

NOTATION CHECKLIST, SAMPLE NOTES

CURB (TYPE, MATERIAL & SIZE)

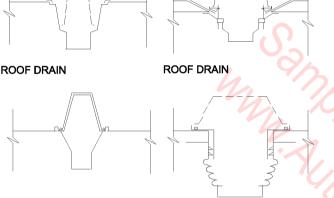
CURB (TYPE, MATERIAL & SIZE)
METAL CAP/FLASHING
CANT/NAILER
ROOFING SURFACE
(TYPE, LAYERS & COVER MATERIAL)
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
2X WOOD FRAME
ROOF CURB
PREFABRICATED ROOF CURB W/2 X 2 WOOD
NAILER & INSUL. TREATED WOOD NAILER

Dolais, nox

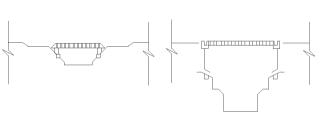
ERS T TO ANGLE

SEALANT
EXTEND ROOFING FELTS TO TOP OF CURB
26 GA. FLASHING
ELASTOMERIC FLASHING
CAP FLASHING
ROOFING MEMBRANE & FLASHING
CANT

ROOF DRAINS

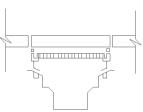


ROOF DRAIN **ROOF DRAIN**



ROOF DRAIN





ROOF DRAIN

ROOF DRAINS

DETAIL DATA CHECKLIST

ROOF DRAINS

Recommend 1/2" slope per linear foot as minimum slope for built-up roof construction. Roof drains at columns, midspan of long-span roof trusses, and perimeter of roof may end up at high points due to framing deflection, wood frame shrinkage, concrete frame shrinkage or creep, or building settlement. Include more and larger roof drains to help compensate for these common circumstances. Drains will be selected and sized by your plumbing consultant and may be installed as part of the plumbing contract or the roofing contract. In any case the work has to be coordinated with roofing and be reviewed during the roofing preconstruction meeting.

- Drain types:

 __High strainer, narrow and wide, to block debris from entering the drains
 __Bellows connection, allows differential movement
 __Flat drain for flat roof areas or roof paving where there will be foot traffic

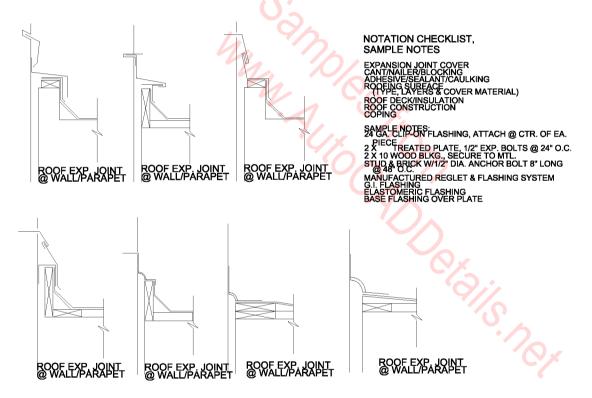
NOTATION CHECKLIST, SAMPLE NOTES

DRAIN STRAINER
FLASHING CLAMP/GRAVEL STOP
FLASHING
ROJEING SURFACE
(OPEN LAYERS & COVER MATERIAL)
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
ROOF DRAIN AS SPECIFIED, OPENINGS FOR
ROOF DRAINS TO BE PREFORMED
STRAINER BASKET DRAIN GUARD
STRAINER BASKET DRAIN GUARD
CLAMPING RING
WATER CUTOFF MASTIC
DECK FLANGE
NEOPRENE FLEXIBLE BELLOWS BODY
SCREW TYPE CLAMP
NO-HUB CONNECTION
MEMBRANE ROOFING
BUILT-UP ROOF
RIGID INSULATION
PRECAST CONC. SLAB ON STEEL DECKING

Pils nox

ROOF EXPANSION JOINTS @ WALLS/PARAPETS

ROOF EXPANSION JOINTS @ WALLS/PARAPETS



FLASHING APPLIED W/ADHESIVE
LEAD OR ALUMINUM FLASHING
CONT (CLEAT)
BASE FLASHING NAILS @ 8" O.C.
WEDGE & SEAL
FLASHING JOINT SET IN ROOFING CEMENT
METAL CAP FLASHING
SS, FLASHING INTO PRESET REGIET
FLASH REGILET, BEND DOWN AFTER INSTALLING
FLUSH TIGHT AGAINST WALL
METAL FLASHING STON MORTAR BED
COMPOSITION FLASHING
BUILT-UP ROOFING
BUILT-UP ROOFING
FLUSH TROOFING
BUILT-UP ROOFING
FLUSH TROOFING
FLUSH TROOFING
FLUSH TROOFING
BUILT-UP ROOFING
AND THE PROFING
FLUSH TROOFING
ROOFING TO THE PARTIER
FLUSH TROOFING
MOOD BLOCKING
NAILABLE CANT
CONT. 4" HIGH CANT

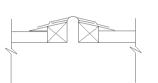
ROOF EXPANSION JOINTS

ROOF EXPANSION

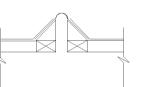
ROOF EXPANSION

JOINT Flexible Cover

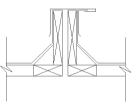
JOINT Flexible Cover



ROOF EXPANSION JOINT Flexible Cover



ROOF EXPANSION JOINT Flexible Cover



ROOF EXPANSION JOINT Metal Cover

ROOF EXPANSION JOINTS

DETAIL DATA CHECKLIST

- ROOE EXPANSION JOINT COVERS Expansion Joints consist of:

 _An opening or separation across a building to allow for movement, typically 1/2" to 1" wide _A waterstop between the separated structures

 - A premoided expansion joint filler

 A block or curb to keep the joint above the roof surface and block water from entering the joint

 An expansion joint cover

 - __An expansion joint cover
 __Type A are best quality covers for most roofing conditions
 __Expansion joint cover types:
 __Type A: aluminum, stainless steel, or copper
 __Type B: elastomeric such as neoprene, with metal flanges

 - For intersection of roof slab and parapets or walls
- __Type C: plastic low profile cover Not recommended except for minimal joints such as intermediate expansion joints for membrane

NOTATION CHECKLIST, SAMPLE NOTES

EXPANSION JOINT COVER
FLASHING/FLEXIBLE FLASHING
CANT/NAIL ER/BLOCKING
ADHESIVE/SEALANT/CAULKING
ROOFING SURFROE
COVER MATERIAL)
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
WIDTH-OF-JOINT
BASE FLASHING, EXTEND. OVER TOP OF
NAILER
EXP. JT. COVER, SET FLANGES IN PLASTIC
CEMENT
FLEXIBLE JT. COVER.
24 GA. STAINLESS STEEL COPING
ALUM. COPING
ALUM. COPING
ALUM. COPING
ALUM. COPING
ALUM. COPINERFLASHING
COMPRESSIBLE INSULATION
BATT INSULATION
FIBER GLASS EXPANSION
TREATED NAILERS

ONT. FIRE RETARD. WOOD BLOCKING PIECES TREATED WOOD BLOCKING CONT. W/3/8" BOLTS @ 24" O.C. , FILL VOID WILCOSE BOLTS @ 24* O.C., FILL VOID W/LOUSE
INSULATION
BASE FLASH IN FULL BED OF PLASTIC CEMENT
FIBER GLASS CLOTH EMBEDDED IN & COVERED
W/PLASTIC CEMENT
FIBER CANT
FIBER CANT
4* CANT STRIP CONTINUOUS
FLASHING FELTS
STEEL ANGLE

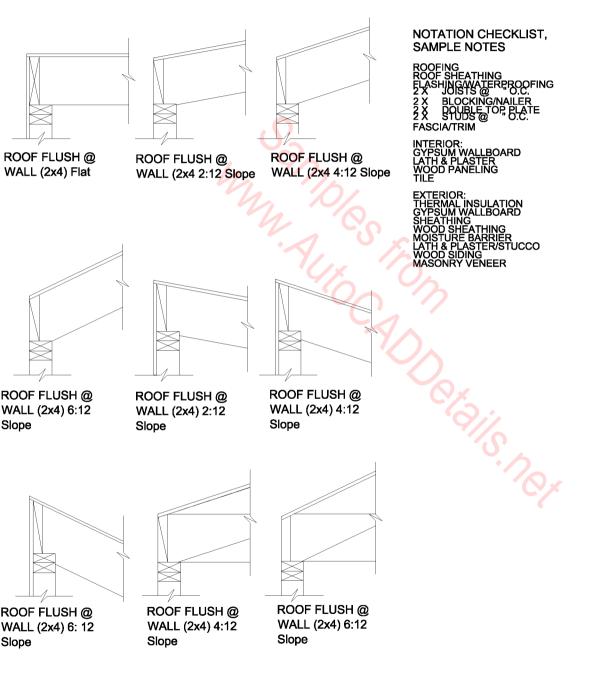
ROOF FLUSH @ WALL (2 X 4 FRAMING)

ROOF FLUSH @ WALL (2 X 4 FRAMING)

XTERIOR continued:
OOF PITCH
UILT-UP ROOFING
OOFING SHINGLE
OOF SHEATHING
OOF PLANKS
IDGE BOARD
ETAL STRAP
ETAL PLANTE

RAFTER
BEVELED RAFTER
NOTCHED RAFTER
RAFTER TIE
RAFTER DE ACH RAFTER
CEILING JOISTS
ATTIC FLOOR
TOP PLATE
TYING

TYING SCREEN VENT INSULATION SOFFIT GUTTER CEILING



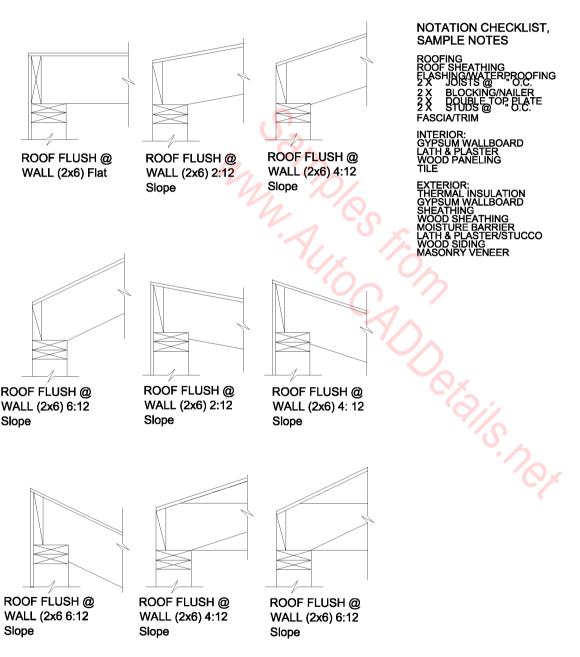
ROOF FLUSH @ WALL (2 X 6 FRAMING)

ROOF FLUSH @ WALL (2 X 6 FRAMING)

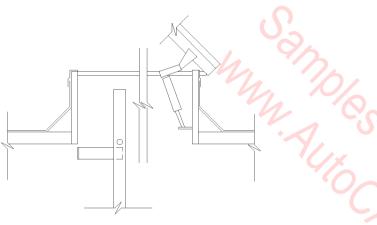
ERIOR continued:

RAFTER TIE STRAP @ EACH RAFTER

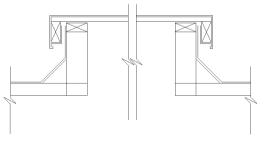
CEILING JOISTS ATTIC FLOOR TOP PLATE



ROOF HATCHES



ROOF HATCH & SCUTTLE



ROOF HATCH

ROOF HATCHES

DETAIL DATA CHECKLIST

- ROOF HATCHES AND SCUTTLES

 See manufacturers' catalogs for choices of sizes, fittings, and special detail conditions

 Check building code fire and smoke control restrictions regarding hatches

 Check whether curb roof supports are built-in to the manufactured units or whether curbs have to be
- detailed and installed separately

 A framed opening should be provided to receive roof hatch unit, coordinate with the structural drawings

 Check whether the manufactured unit includes all required flashing, counter flashing, and blocking for flashing

- Common trouble spots:
 __Insufficient height above roof to block water entry, particularly from ice-dam water ponding in freezing
- weather
 Location in low or ponding area of roof
 Insufficient flashing and counter flashing

NOTATION CHECKLIST, SAMPLE NOTES

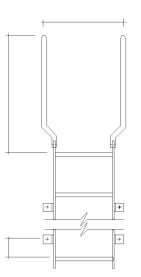
ROOF HATCH & HARDWARE
SCUTTLE SIZE
FLASHING
CANT/NAILER
METAL LADDER
ROOFING DECK/INSULATION
ROOFING DECK/INSULATION
ROOF CONSTRUCTION
CEILING CONSTRUCTION

TÉD HATCH DOOR IATCH 2'-6" X 4'-6" ACTURED ROOF HATCH OOF MEMBRANE

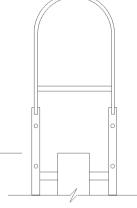
ID INSULATION ID INSULATION BASE FLASHING D-DOWN STAIR LING JOISTS

ROOF LADDERS

ROOF LADDERS



ROOF LADDER



ROOF LADDER ROOF LADDER





DETAIL DATA CHECKLIST

VERTICAL LADDER OR ROOF LADDER

Roof ladders are usually selected prefabricated from a stock catalog or fabricated to order at a specialist metal shop.

__Treads: 1" steel pipe or 3/4" steel bars
__Width: 18" minimum, 24" preferred
__Top handrail, or grab bars, spaced 24" apart
__Top of handrail or grab bars 3'-6" high minimum
__Mount vertical stringer 7" from wall
__Roof ladder at parapet must include a metal grid stepping platform

above the parapet supported by the handrail or grab bars

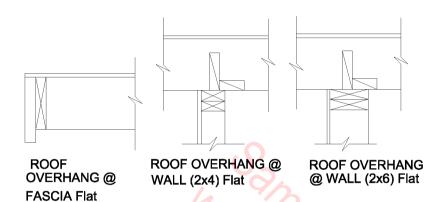
NOTATION CHECKLIST, SAMPLE NOTES

TOP RAIL PARAPET COPING/CAP PARAPET CONSTRUCTION LADDER RUNGS (SIZE & SPACING) BENT BAR BRACKET ANCHORS TO WALL ADDORANS. NOX

TOP OF COPING
PLUG WELD
EXP_BOLT
BENT BAR BRACKET; WELD TO
LADDER
1-1/4" PIPE
WELD ALL AROUND CLOSED END
3/4" DIA. RUNGS 1'-0" O.C.
2-1/2" X 3/8" FLAT BAR
2-1/2" X 3/8" BENT BAR BRACKET

ROOF OVERHANG

ROOF OVERHANG



NOTATION CHECKLIST, SAMPLE NOTES

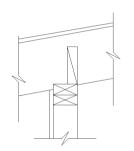
ROOFING ROOF SHEATHING ELASHING WATER PROOFING 2 X BLOCKING /NAILER 2 X DOUBLE TOP PLATE 2 X STUDS @ O.C.

INTERIOR: GYPSUM WALLBOARD LATH & PLASTER WOOD PANELING TILE

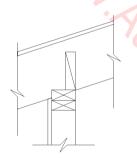
EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD
SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
VENTILATION

15. Day

EXTERIOR continued:
ROOF PITCH
BUILT-UP ROOFING
ROOF SHINGLE
ROOF SHEATHING
ROOF PLANKS
RIDGE BOARD
METAL STRAP
METAL PLATE METAL STRAP
METAL PLATE
ROOF BEAM
RAFTER
BEVELED RAFTER
NOTCHED RAFTER
RAFTER TIE
STRAP @ EACH RAFTER
CEILING JOISTS
ATTIC FLOOR
TOP PLATE
TYING TYING SCREEN VENT INSULATION SOFFIT CEILING



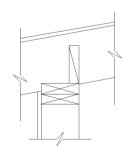
ROOF OVERHANG @ WALL (2x4) 2:12 Slope



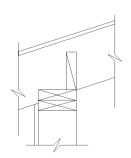
ROOF OVERHANG @ WALL (2x4) 4:12 Slope



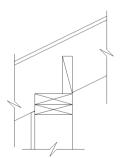
ROOF OVERHANG @ WALL (2x4) 6:12 Slope



ROOF OVERHANG @ WALL (2x6) 2:12 Slope



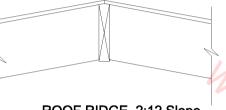
ROOF OVERHANG @ WALL (2x6) 4:12 Slope @ WALL (2x6) 6:12 Slope



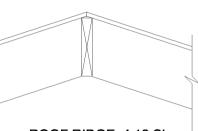
ROOF OVERHANG

ROOF RIDGE

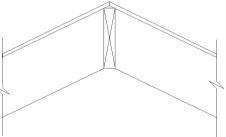
ROOF RIDGE



ROOF RIDGE 2:12 Slope



ROOF RIDGE 4:12 Slope

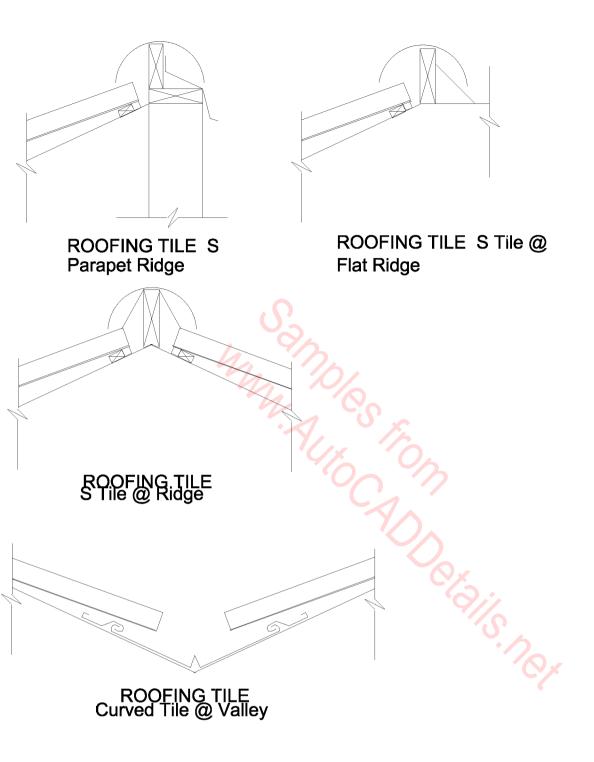


ROOF RIDGE 6:12 Slope

NOTATION CHECKLIST,

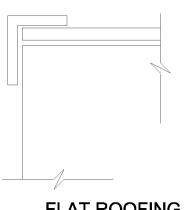
Mannoles from holdisher

ROOFING TILE



NOTATION CHECKLIST, SAMPLE NOTES

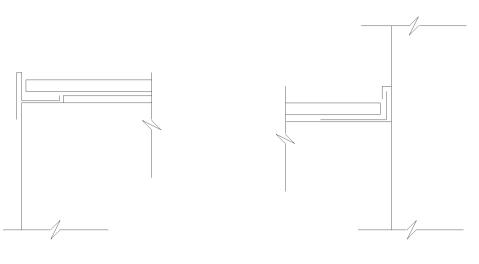
RIDGE TILE NAILER CEMENT FIELD TILE GRAVEL STOP FLASHING FASCIA
BUILDING FELT
ROOF DECK/INSULATION
ROOF CONSTRUCTION
SLOPE
ELASTIC CEMENT
TOP FIXTURE
EAVE CLOSURE
WOOD DECKING
CONCRETE ROOF
PLASTER LATH
RAKE
END BAND
DECK MOULD
STARTER
CLEATS
ROOF EDGE
CAP FLASHING
VALLEY FLASHING
CANT STRIP





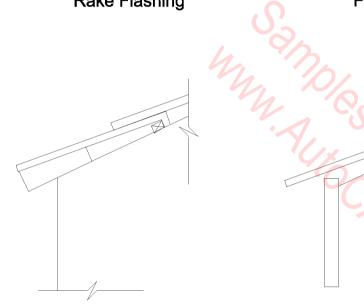
FLAT ROOFING TILE Rake

ROOFING TILE



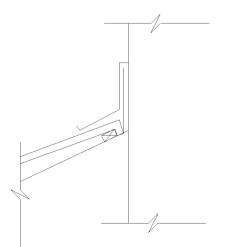
FLAT ROOFING TILE Rake Flashing

FLAT ROOFING TILE Flashing @ Wall

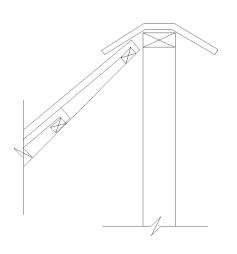


FLAT ROOFING TILE Eave





FLAT ROOFING TILE Flashing @ Wall



FLAT ROOFING TILE Parapet Ridge

NOTATION CHECKLIST, SAMPLE NOTES

RIDGE TILE
NAILER
CEMENT
FIELD TILE
GRAVEL STOP
FLASHING
NAILER
FASCIA
BUILDING FELT
ROOF DECK/INSULATION
ROOF CONSTRUCTION
SLOPE
ELASTIC CEMENT
TOP FIXTURE
EAVE CLOSURE
WOOD DECKING
CONCRETE ROOF
PLASTER LATH
RAKE
END BAND
DECK MOULD
STARTER
CLEATS
ROOF EDGE
CAP FLASHING
VALLEY FLASHING
CANT STRIP

FL. Ridge. FLAT ROOFING TILE Flat Roof Ridge FLAT ROOFING TILE Ridge Piece

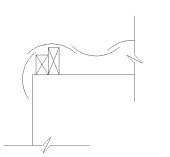
ROOFING TILE

NOTATION CHECKLIST, SAMPLE NOTES

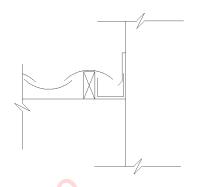
RIDGE TILE
NAILER
CEMENT
FIELD TILE
GRAVEL STOP
FLASHING
NAILER
FASCIA
BUILDING FELT
ROOF DECK/INSULATION
ROOF CONSTRUCTION
SLOPE
ELASTIC CEMENT
TOP FIXTURE
EAVE CLOSURE
WOOD DECKING
CONCRETE ROOF
PLASTER LATH
RAKE
END BAND
DECK MOULD
STARTER
CLEATS
ROOF EDGE
CAP FLASHING
VALLEY FLASHING
CANT STRIP

FLAT ROOFING TILE Valley

ROOFING TILE



ROOFING TILE Curved S Tile @ Rake

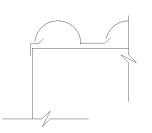


ROOFING TILE Curved S Tile @ Wall

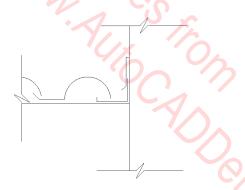


RIDGE TILE
NAILER
CEMENT
FIELD TILE
GRAVEL STOP
FLASHING
NAILER
FASCIA
BUILDING FELT
ROOF DECK/INSULATION
ROOP CONSTRUCTION
SLOPE
ELASTIC CEMENT

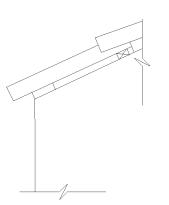




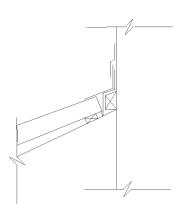
ROOFING TILE Curved Tile @ Rake



ROOFING TILE Curved Tile @ Wall

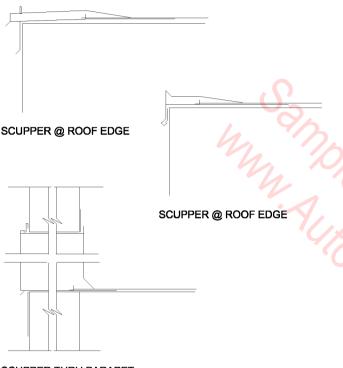


ROOFING TILE Curved Tile @ Eave

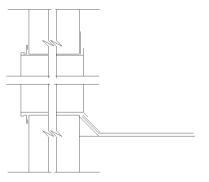


ROOFING TILE Curved Tile @ Wall

SCUPPERS



SCUPPER THRU PARAPET



OVERFLOW SCUPPER THRU PARAPET

SCUPPERS

DETAIL DATA CHECKLIST

SCUPPERS

Scuppers are non-corrosive sheet-metal channels or box tubes to direct water off a roof or through a parapet. Overflow scuppers are a must in parapet roofs. Position these to drain away rain water that may be backed up and blocked by clogged roof drains.

Provide at least one, preferably two, to drain rain water out to an area that won't be harmed by intermittent

Provide at least one, preferably two, to drain rain water out to an area that won't be harmed by intermittent spillover.

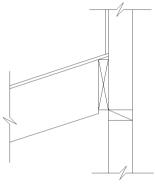
Well-flashed and caulked 26 gauge galvanized steel or comparable copper construction is typical.

NOTATION CHECKLIST, SAMPLE NOTES

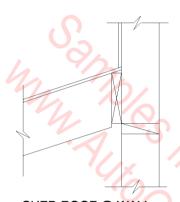
GUTTER
HANGER
BRACKET
METAL GRAVEL STOP
CANT/NAILER
CLEAT/EDGE STRIP/FASCIA PLATE
PARAPET WALL CONSTRUCTION
REGLET
FLASHING/COUNTERFLASHING
ADHESIVE/SEALANT/CAULKING
CYPEL AVERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION

SHED ROOF @ WALL/ROOF @ PARAPET

SHED ROOF @ WALL/ROOF @ PARAPET



SHED ROOF @ WALL (2 X 4) 4:12 Slope



SHED ROOF @ WALL (2 X 6) 4:12 Slope

NOTATION CHECKLIST, SAMPLE NOTES

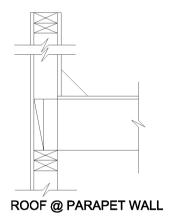
2 X STUDS @ "O.C. 2 X SOLID BLOCKING/NAILER ROOFING ROOF SHEATHING ELASHING/WATERPROOFING ELASHING/WATERPROOFING CX OLISTS/RAFTERS @ "O.C. LEDGER

INTERIOR: GYPSUM WALLBOARD LATH & PLASTER WOOD PANELING TILE

Jalls nox

EXTERIOR:
THERMAL INSULATION
GYPSUM WALLBOARD SHEATHING
WOOD SHEATHING
MOISTURE BARRIER
LATH & PLASTER/STUCCO
WOOD SIDING
MASONRY VENEER
ROOF PITCH

EXTERIOR continued:
BUILT-UP ROOFING
ROOFING SHINGLE
ROOF SHEATHING
ROOF PLANKS
RIDGE BOARD
METAL STRAP
METAL PLATE
ROOF BEAM
RAFTER
BEVELED RAFTER
NOTCHED RAFTER
RAFTER BEACH RAFTER
CEILING JOISTS
ATTIC FLOOR
TOP PLATE
TYING
SCREEN VENT
INSULATION
SOFFIT
GUTTER
CEILING



SHEET METAL ROOFING

SHEET METAL ROOF SHEET METAL ROOF EAVE PITCH BREAK

NOTATION CHECKLIST, SAMPLE NOTES

FLAT SEAM
BATTEN
FLASHING
FLASHING SEAM
SNAP CAP ANCHOR CLIP
CLEAT
METAL ROOFING
ROOF DECK/INSULATION
ROOF CONSTRUCTION
PREFAB RIDGE PIECE

Appolais, nox

MTL. ROOFING, 1-1/2" W. X 2" H. BATTEN @ 24" O.C. METAL ROOFING HIP COVER PLYWOOD SHEATHING TYPE "W" VALLEY CONT. FLASH. BY MTL. ROOFING MFR. CLOSURE BY MTL. ROOFING MFR. PEAX LAP BY MTL. ROOFING MFR. 26 GA. GALV. MTL. ROOFING, CLIP & SEAM

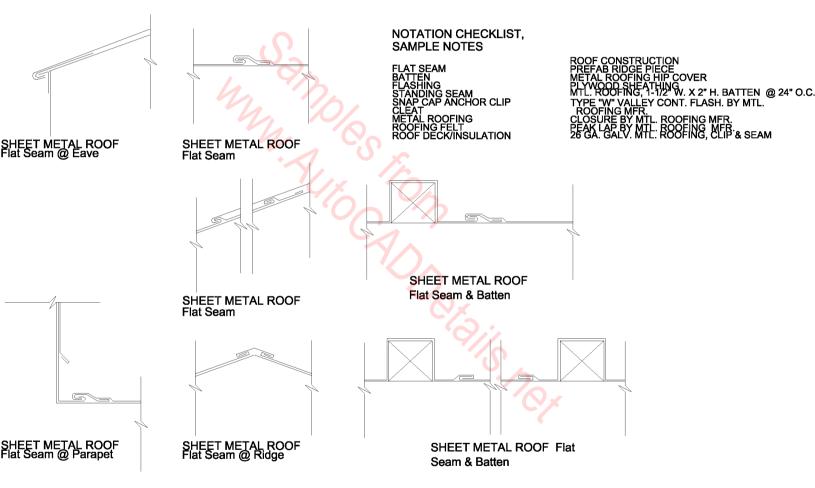


SHEET METAL ROOF EAVE

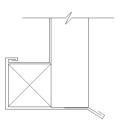


SHEET METAL ROOF @ RIDGE

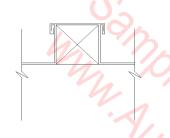
SHEET METAL ROOFING



SHEET METAL ROOFING



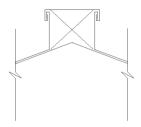
SHEET METAL ROOF Batten @ Eave



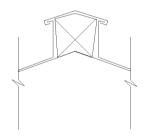
SHEET METAL ROOF Batten Seam



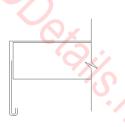
BATTEN FLASHING STANDING SEAM SNAP CAP ANCHOR CLIP CLEAT METAL ROOFING ROOFING FELT ROOF DECKINSULATION ROOF CONSTRUCTION
PREFAB RIDGE PIECE
METAL ROOFING HIP COVER
PLYWOOD SHEATHING.
MTL. ROOFING. 1-1/2 W. X 2" H. BATTEN @ 24" O.C.
TYPE "W" VALLEY CONT. FLASH. BY MTL.
ROOFING MFR.
CLOSURE BY MTL. ROOFING MFR.
26 GA. GALV. MTL. ROOFING, CLIP & SEAM



SHEET METAL ROOF Batten Seam @ Ridge



SHEET METAL ROOF Batten Seam @ Ridge



SHEET METAL ROOF Standing Seam @ Eave



SHEET METAL ROOF Standing Seam @ Eave

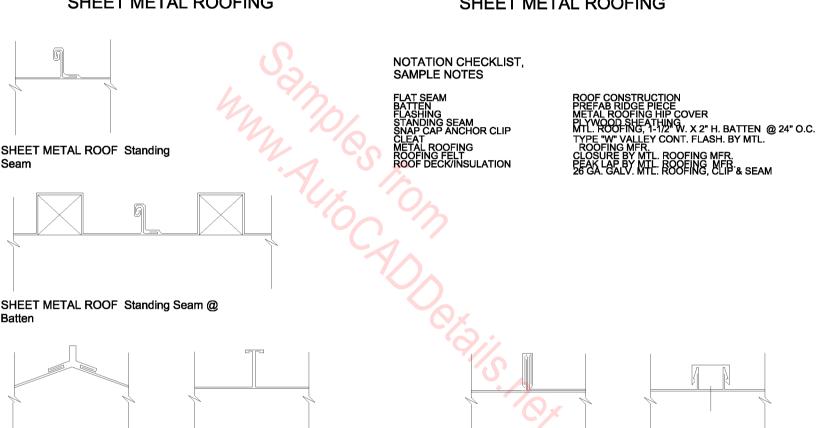
SHEET METAL ROOF

Ridge Piece

SHEET METAL ROOFING

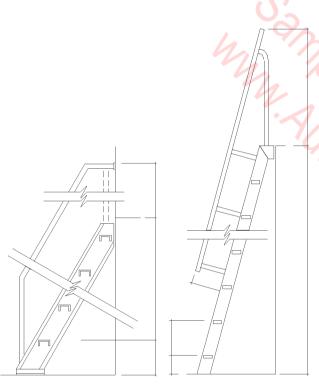
SHEET METAL ROOF Prefab Standing Seam

SHEET METAL ROOF Prefab Batten



SHEET METAL ROOF Prefab Standing Seam

SHIPS LADDER



SHIPS LADDER

SHIPS LADDER

SHIPS LADDER

DETAIL DATA CHECKLIST

SHIPS LADDER Metal ships ladders are typically used in tight spaces in mechanical rooms or industrial spaces. They're usually Metal ships ladders are typically used in tight spaces in mechanical rooms or industrial spaces. They're usually selected prefabricated from a stock catalog or fabricated to order at a specialist metal shop.

60 degree mounting angle is typical
Width: 18" minimum, 24" preferred

Treads of checkered plate or open grating steel to ensure non-slip surface and prevent accumulation of slippery substances such as water and grease

Tread-to-tread height is 12" maximum, 10" preferred

Stringers are from stock steel channels

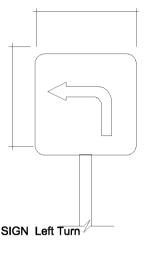
Anchor the stringers to floor and wall construction with minimum 3/4" diameter expansion bolts, pre-^lset bolts, or through-holts

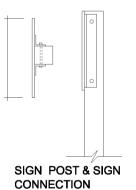
or through-bolts
1" or larger diameter pipe rail at one or both sides

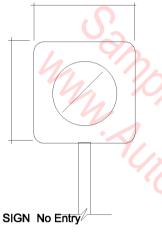
NOTATION CHECKLIST

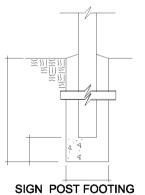
PIPE RAIL METAL TREADS STRINGER TREAD BRACKETS ANGLE ANGLE ANCHOR/FLOOR ANCHOR

SIGNS









SIGNS

DETAIL DATA CHECKLIST

- SIGNS
 Street and directional signs are usually purchased ready-made or
 fabricated as variations on common sign types and styles.
 Local highway and street jurisdictions usually provide exact design standards and specifications.
 and to indicate anchoring to the ground or pavement.

 Detail drawings are included mainly to show desired sizes and types
 Besides data provided by governing agencies, see manufacturers' and
 suppliers' catalogs for additional design data, details, and specifications.

 See manufacturers' recommendations for anchoring.

NOTATION CHECKLIST, SAMPLE NOTES

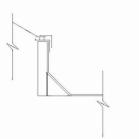
SIGN (MATERIAL & FINISH) SIGN POST (MATERIAL, SIZE & SHAPE) BOLTS/ANCHOR FINISH GRADE/PAVING/SLAB/ CURB SUBGRADE SUBGRADE

1-3/4" X 3" BRONZE ANODIZED
ALUM STANDARD

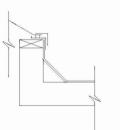
4 X 4 CEDAR POST
BLUE LETTERS, SYMBOLS, &
BORDER ON WHITE
BACKGROUND
CONCRETE FOOTING
FOOTING/PIPE SLEEVE
BACKELL //AGGREEVE

BACKFILL/AGGREGATE/SAND

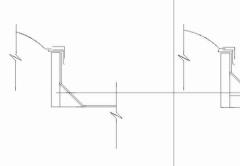
SKYLIGHTS



SKYLIGHT Pyramid--Wood or Prefab Curb



SKYLIGHT Pyramid--Concrete Curb



SKYLIGHT Single Dome--Wood or Prefab Curb

SKYLIGHT Single Dome--Insulated Deck

SKYLIGHT Pyramid--

SKYLIGHT Pyramid--Integral Curb

Insulated Deck

SKYLIGHTS

DETAIL DATA CHECKLIST

SKYLIGHTS

Skylights are usually installed as ready-made manufactured units so most detailing and installation will be as per manufacturers' recommendations. The catalogs provide numerous options of glazing types, fixed or operable, single or double glazing, etc. Skylight design is highly regulated, so consult all applicable building code standards.

- Extruded aluminum frame with integral base and acrylic dome is typical
 Square and rectangular units are typically sized at from 2' to 8' in each direction
 Curbs are required to block penetration of water, ice and snow at roof level
 Curbs may be integral or designed as part of roof construction

- Materials and sizes:
 Double glazing helps mitigate condensation
 Exposed gaskets will fail due to solar and weather exposure
- Provide sloping gutters between adjacent skylights to drain condensation

41/10/es NOTATION CHECKLIST, SAMPLE NOTES

FRAME CONDENSATE GUTTERWEEP HOLES CURB ...rvWEEP

TOFING SUPFACE

TOFING DECKINSULATION

OF CONSTRUCTION

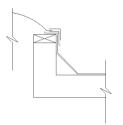
ASTIC SKYLIGHT

) SQUARE POHT

STIC SKYLIGHT SQUARE PYRAMID DOUBLE GLAZED YLIGHT SYSTEM VER METAL FRAME TO AVOID CONDENSATION RYLIC PLASTIC SKYLIGHT WEXTRUDED ALUM. JRB FRAME & CONDENSATE GUTTER

ALUM. FRAME BY SKYLIGHT MFR., INSTALL
AS PER MFR'S. INSTRUCTIONS
ALUM. INNER LINER
CONT. APRON FLASHING
MEMBRANE FLASHING
MOD LINE OF CURB
MULLION
WOOD CURB
ALUM. CURB
4 X 4 CANT
WOOD BUCKING
STEEL ANGLE
PERIMETER OPENING CHANNEL
MEMBRANE ROOFING
BUILT-UP ROOF
RIGID INSULATION
ROOF JOISTS
CEILING

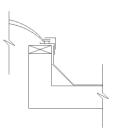
SKYLIGHTS



SKYLIGHT Sngl. Dome--Concrete Curb



SKYLIGHT Dbl. Dome--Wood or Prefab Curb



SKYLIGHT Double Dome--Concrete Curb



SKYLIGHT Sngl. Dome-Integral Curb



SKYLIGHT Dbl. Dome--Insulated Deck



SKYLIGHT Double Dome--Integral Curb

SKYLIGHTS

DETAIL DATA CHECKLIST SKYLIGHTS

Skylights are usually installed as ready-made manufactured units so most detailing and installation will be as per manufacturers' recommendations. The catalogs provide numerous options of glazing types, fixed or operable, single or double glazing, etc. Skylight design is highly regulated, so consult all applicable building code standards.

- Materials and sizes:
 Extruded aluminum frame with integral base and acrylic dome is typical
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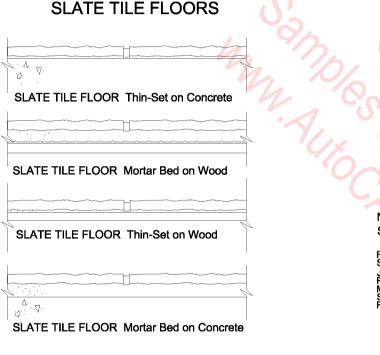
NOTATION CHECKLIST, SAMPLE NOTES

FRAME CONDENSATE GUTTER/WEEP HOLES CURB CANTI/ALLER SEALANT/CAULKING ROOFING SUBPACE (17PE, LAYERS & COVER MATERIAL) ROOFING DECK/INSULATION ROOF CONSTRUCTION PLASTIC SKYLIGHT 45D SQUARE PYRAMID DOUBLE GLAZED SKYLIGHT SYSTEM COVER METAL FRAME TO AVOID CONDENSATION CONDENSATION CURB FRAME & CONDENSATE GUTTER

OKA IS DOK

ALUM. FRAME BY SKYLIGHT MFR., INSTALL AS PER MFR'S. INSTRUCTIONS ALUM. INNER LINER CONT. APRON FLASHING MEMBRANE FLASHING MOULLON WOOD CURB ALUM. CURB 4X 4 CANT WOOD BLOCKING STEEL ANGLE PERIMETER OPENING CHANNEL MEMBRANE ROOFING BUILT-UP ROOF RIGID INSULATION ROOF JOISTS CEILING

SLATE TILE FLOORS



SLATE TILE FLOORS

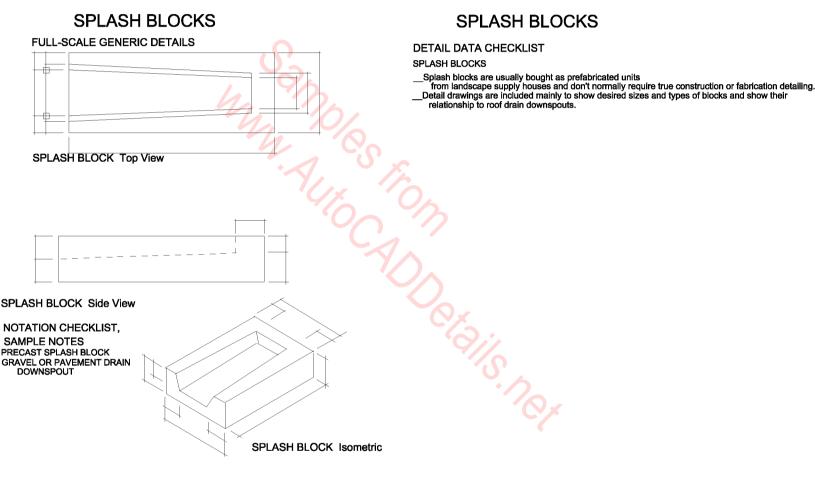
DETAIL DATA CHECKLIST

- Slate flagstone comes in three types:
 Square, four edges sawn
 Irregular, two edges sawn
 Irregular, no edges sawn
 Slate floor tile thicknesses are typically 1/2" to 1-1/4"
 Thicker floors are for the heavier traffic areas
 Follow supplier's recommendations for thickness in different floor traffic conditions
 Typical slate floor tile sizes are 6", 10" and 12", widths are 6" to 9", thicker panels are up to 24" square
 Provide complete, compact bedding beneath stone tile slabs to avoid bending stresses and cracking
 Slate is brittle and subject to damage from impact or bending stress
 Provide a stable substrate; movement of substrate will cause cracks in stone at mortar joints

NOTATION CHECKLIST, SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE SETTING BED (MATERIAL & SIZE) SETTING BED (MATERIAL & SIZI JOINT SIZE FLOOR MEMBRANE/WATERPROOFING SUBFLOOR/SLAB REINFORCING

ATE TILE
ISH TILE
ISH CONC.
ISH CONC.
ILD UP CONC. FLOOR W/FLOORSTONE AS REQ'D.
/WOOD UNDERLAYMENT
/WOOD SUBFLOOR
RTICLE BOARD UNDERLAYMENT AR BED W/REINFORCING



SPORTS PAVING

SYNTHETIC SPORTS PAVING

TENNIS COURT PAVING SYNTHETIC TRACK PAVING

CINDER TRACK

SPORTS PAVING

DETAIL DATA CHECKLIST

- SPORTS PAVING
 Sports paving must be specified with considerable precision;
 details are mainly to show thicknesses and layering of materials.
 Consult CSI master specifications and athletic facilities handbooks for
- design standards required for specific sports and specific site and weather conditions.

 Also, see manufacturers' and suppliers' catalogs for design data, details, and specifications.

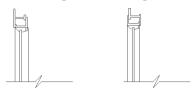
NOTATION CHECKLIST, SAMPLE NOTES

TENNIS COURT:
COLOR COAT
LEVELING COURSE
BINDER
AGGRETATE
GRAVEL
COMPACTED SUBGRADE

CINDER TRACK: FINE CINDERS MEDIUM CINDER COURSE BASE COURSE SYNTHETIC SPORTS PAVING:
RESILIENT SURFACE
CONCRETE SLAB
REINFORCING
AGGREGRATE BASE
COMPACTED SUBGRADE
SYNTHETIC TRACK:
RESILIENT SURFACE
WEARING COURSE
LEVELING COURSE
BASE COURSE
COMPACTED SUBGRADE

STEEL AWNING WINDOW

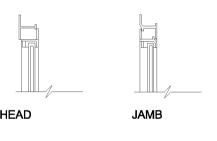
Steel Awning Window -- Single Glazed



HEAD JAMB SILL

SILL

Steel Awning Window -- Double Glazed



STEEL AWNING WINDOWS

DETAIL DATA CHECKLIST

STEEL AWNING WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations.

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).

- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

 See the Detail Data Checklist for Windows and Glazing at the beginning of this chapter for more information.

NOTATION CHECKLIST, SAMPLE NOTES

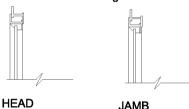
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAU KING/GROUT

TEEL WINDOW SYSTEM METAL SILL BELOW HERMOPANE INSULATING GLASS INGLE PANE GLASS EAD, SEALANT BOTH SIDES

STEEL CASEMENT WINDOWS

STEEL CASEMENT WINDOWS

Steel Casement -- Single Glazed



JAMB



SILL

DETAIL DATA CHECKLIST

STEEL CASEMENT WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations.

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- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

Steel Casement -- Double Glazed





NOTATION CHECKLIST. SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT WINDOW THE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

STEEL WINDOW SYSTEM
METAL SILL BELOW
THERMOPANE INSULATING GLASS
SINGLE PANE GLASS
HEAD, SEALANT BOTH SIDES
SILL W/SEALANT EACH SIDE
WOOD NAILER
TREATED BLOCKING
1X WOOD TRIM
METAL EDGE BEAD
STUD
FLASHING
SEALANT

STEEL PIVOTED WINDOWS

Steel Pivoted -- Single Glazed

HEAD

HEAD SILL **JAMB** Steel Pivoted -- Double Glazed

JAMB

SILL

STEEL PIVOTED WINDOWS

DETAIL DATA CHECKLIST

STEEL PIVOTED WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations.

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances

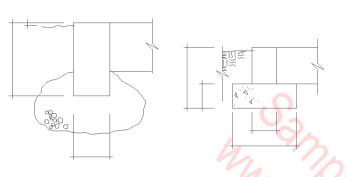
- (1/2" all around is a common allowance for shim space).
 - Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
DRIP CAP/WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH
HARDWARE/OPERATOR
VENT/WEEP HOLE/WIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/AD/JACENT FINISH
ROUGH OPENING/FINISH OPENING

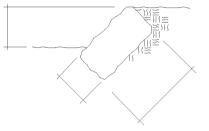
EL WINDOW SYSTEM
AL SILL BELOW
RMOPANE INSULATING GLASS
GLE PANE GLASS
D, SEALANT BOTH SIDES
WISEALANT EACH SIDE
OD NALER
ATED BLOCKING
WOOD TRIM
AL EDGE BEAD
D

STONE CURBS, PAVING EDGES

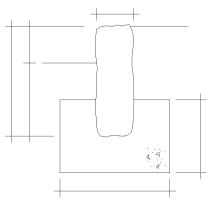


STONE CURB

STONE CURB



STONE CURB



STONE CURB

STONE CURBS, PAVING EDGES

DETAIL DATA CHECKLIST

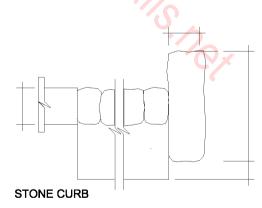
STONE CURBS & GUTTER CURBS

- TONE CURBS & GUTTER CURBS
 Stone curb sections come in precut lengths, such as 12' long, straight and curved
 Set stones without mortar in tamped gravel
 Granite is often used in extreme climate areas
 Use expansion joint material such as mastic board at each joint

- ___ose expansion joint material such as mastic board at each joint to help prevent overturning __Crompact the subgrade __Provide ample subgrade drainage

NOTATION CHECKLIST, SAMPLE NOTES SAMPLE NOTES
CURB FINISH (TYPE & MATERIAL)
FINISH GRADE/PAVEMENT
CURB SLOPE/RADII/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS
(TYPE & SPACING)

SEE SITE PLAN FOR MATERIAL & FINISH GRADE @ PAVING SLOPE GRANITE CURBING 45D VERTICAL GRANITE CURBING COMPACTED BANK RUN GRAVEL BASE

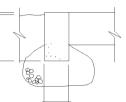


STONE CURBS, PAVING EDGES

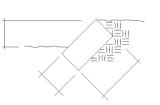
STONE CURB

STONE CURB

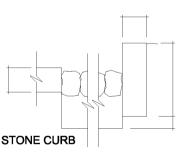
STONE CURBS, PAVING EDGES



STONE CURB



STONE CURB



DETAIL DATA CHECKLIST

STONE CURB & GUTTER CURBS

TONE CURB'S GUITER CURBS
Stone curb sections come in precut lengths, such as 12' long, straight and curved
Set stones without mortar in tamped gravel
Granite is often used in extreme climate areas
Use expansion joint material such as mastic board at each joint
Provide backup support such as poured concrete as backing at each joint to help prevent overturning

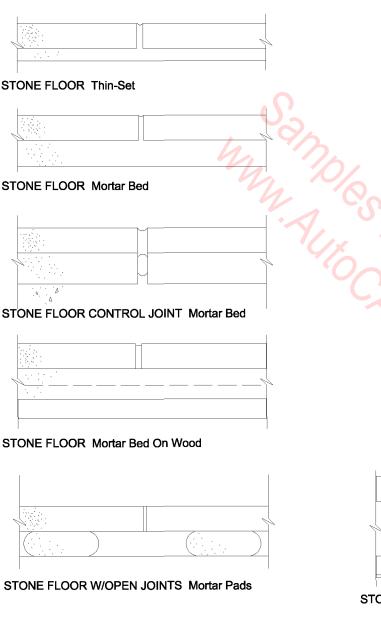
Compact the subgrade
Provide ample subgrade drainage

NOTATION CHECKLIST, SAMPLE NOTES

SAMPLE NOTES
CURB FINISH (TYPE & MATERIAL)
FINISH GRADE/PAVEMENT
CURB SLOPE/RADII/CAMFER
PAVEMENT SLOPE
AGGREGATE BASE
COMPACTED SUBGRADE
CONTROL/EXPANSION JOINTS (TYPE & SPACING)
SEE SITE PLAN FOR MATERIAL & FINISH GRADE
WENTICAL GRANITE CURBING 45D
VERTICAL GRANITE CURBING
COMPACTED BANK RUN GRAVEL BASE

Dolalls. nox

STONE FLOORS



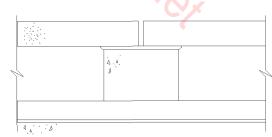
STONE FLOORS

DETAIL DATA CHECKLIST

- STONE FLOORS
 __Thick stone flooring is mainly used for exterior paving and finished roof decks
 __Granite paver thicknesses are typically 2" to 3", typical sizes are 4" x 4", 4" x 8", 5" x 8", 8" x 8",
- and 12" x 12" See stone suppliers' catalogs for variations in thicknesses and stone sizes, bedding support, and application
- and application
 Follow suppliers' details, specifications, and application instructions carefully
 Open-joint paving is used to allow drainage of rain water to the slab or roofing beneath the finish stone surface

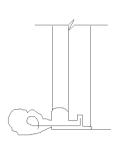
NOTATION CHECKLIST, SAMPLE NOTES FINISH FLOOR (MATERIAL & SIZE) JOINT SIZE BOND COAT/MORTAR BED FLOOR MEMBRANE/WATERPROOFING SUBFLOOR/SLAB REINFORCING SEALANT/FILLER STRIP STONE MARBLE TILE GRANITE FLOORING FINISH CONC. BUILD UP CONC. FLOOR W/FLOORSTONE AS REQ'D.

PLYWOOD UNDERLAYMENT
PLYWOOD SUBFLOOR
PARTICLE BOARD UNDERLAYMENT
MASTIC
BOND COAT
ADHESIVE
SETTING BED
MORTER BED W/REINFORCING
ANGLE EDGER
THRESHOLD
DIVIDER STRIP
REDUCER STRIP

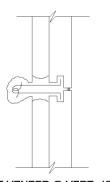


STONE FLOOR W/OPEN JOINTS Pedestal

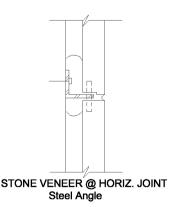
STONE VENEER

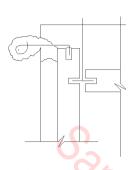


STONE VENEER @ BASE Wire Anchor

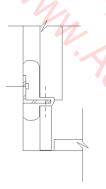


STONE VENEER @ VERT. JOINT Wire Anchor

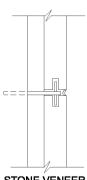




STONE VENEER @ CEILING Wire Anchor



STONE VENEER @ BASE Steel Angle



STONE VENEER Dovetail Joint



STONE MASONRY VENEER
Facing panels or unit stone typical sizes
Limestone -- 7/8", 2-1/4", 3", thick; 5' x 14' typical maximum panel
Marble -- 1/2" to 2" thick; 3", thick; 5' x 14' typical maximum panel
Granite -- 1-1/4" and thicker, 4' x 10' typical maximum panel
Slate -- 1", 1-1/2" thick; 4' x 8' typical maximum panel
Water resistance
Limestone -- Low water resistance
(middle grade absorption by weight max. = 7.5)
Marble -- High water resistance
(absorption by weight max. = 7.5)
Granite -- Very high water resistance
(absorption by weight max. = 0.4)
Slate -- High water resistance
(absorption by weight max. = 2.5 exterior)
Contact suppliers and trade associations for data and consultation on anchoring systems

NOTATION CHECKLIST. NOTATION CHECKLIST,
SAMPLE NOTES
STONE (TYPE & THICKNESS)
ANCHORTHE (TYPE, MATERIAL & SIZE)
MORTAR BED
ADJACENT WALL MATERIAL
WALL CONSTRUCTION/FRAMING
04450 STONE VENEER TIE WIRE, CEMENTED INTO HOLES

TIE WIRE, CEMENTED INTO HOLES
PIN ANCHOR
DOVETAIL INSERT
DOVETAIL ANCHOR
THREADED INSERT & EYE BOLT & STRIP LINER
LOOP TIE THRY DRILLED HOLE
STRIP LINER WITH DOWELS
STRIP HANGER
THREADED ROSETTE
RELIEF ANGLE & ANCHOR
WELD TO CLIP

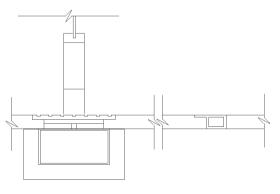


STONE VENEER Wire Tie to Wood Stud

STOREFRONT AUTOMATIC DOORS

Mundoles NC Dr.

HEAD @ AUTOMATIC DOOR CLOSER



SILL Double Acting

STOREFRONT AUTOMATIC DOORS

DETAIL DATA CHECKLIST

AUTOMATIC DOORS

- See manufacturer's catalogs for standard sizes, finishes, and materials.
- Detail drawings are included mainly to show special anchoring conditions—screws, anchor bolts, etc., in wood frame, metal frame, masonry, or concrete construction.

 See manufacturers' and suppliers' catalogs for detail design data and specifications.
- See manufacturer's recommendations for special anchor requirements for different kinds of construction.

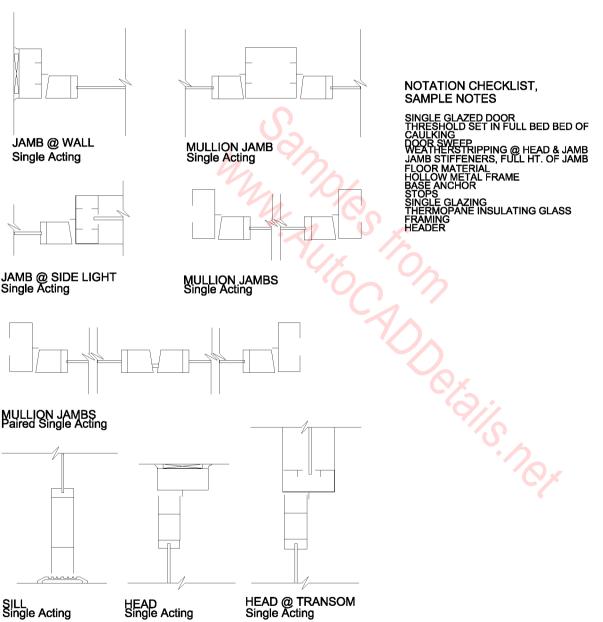
NOTATION CHECKLIST

CADDOR'S TOX

STOREFRONT DOORS

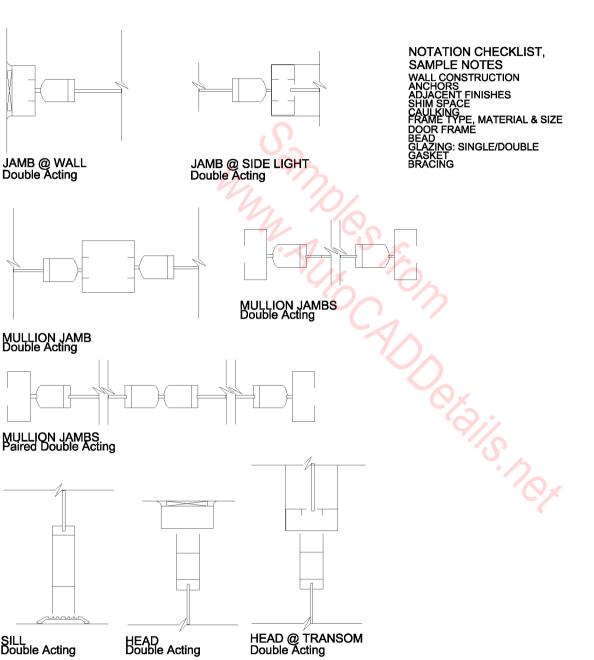
STOREFRONT DOORS

WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES
SHIM SPACE
CAULKING
FRAME TYPE, MATERIAL & SIZE
DOOR FRAME
BEAD
GLAZING: SINGLE/DOUBLE
GASKET
BRACING



STOREFRONT DOORS

STOREFRONT DOORS



SINGLE GLAZED DOOR
THRESHOLD SET IN FULL BED OF CAULKING
DOOR SWEEP
WEATHERSTRIPPING @ HEAD & JAMB
JAMB STIFFENERS, FULL HT. OF JAMB
FLOOR MATERIAL
HOLLOW METAL FRAME
BASE ANCHOR
STOPS
SINGLE GLAZING
THERMOPANE INSULATING GLASS
FRAMING
HEADER



JAMB @ WALL (Narrow) Double Acting

STOREFRONT DOORS

NOTATION CHECKLIST, SAMPLE NOTES

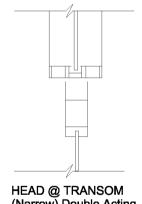
WALL CONSTRUCTION
ANCHORS
ADJACENT FINISHES
SHIM SPACE
CAULKING
FRAME TYPE, MATERIAL & SIZE
DOOR FRAME
BEAD
GLAZING: SINGLE/DOUBLE
GASKET
BRACING

SINGLE GLAZED DOOR
THRESHOLD SET IN FULL BED OF CAULKING
DOOR SWEEP
WEATHERSTRIPPING @ HEAD & JAMB
JAMB STIFFENERS, FULL HT. OF JAMB
FLOOR MATERIAL
HOLLOW METAL FRAME
BASE ANCHOR
STOPS
SINGLE GLAZING
THERMOPANE INSULATING GLASS
FRAMING
HEADER



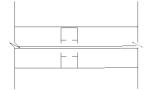
JAMB @ WALL (Narrow) Double Acting

HEAD (Narrow) Double Acting

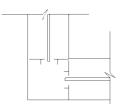


(Narrow) Double Acting

STOREFRONT WINDOWS



VERTICAL GLAZING BAR Single Glazed



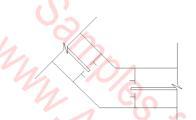
CORNER MULLION Single Glazed



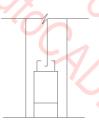
MULLION BASE Single Glazed



MULLION Single Glazed

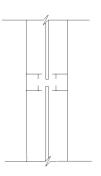


ANGLE CORNER MULLION Single Glazed



BASE @ SIDE LIGHT Single Glazed

Otalls. Nex



HORIZONTAL GLAZING BAR Single Glazed

STOREFRONT WINDOWS

NOTATION CHECKLIST:

FRAME TYPE, MATERIAL & SIZE GLAZING: SINGLE/DOUBLE GASKET BEAD SHIM SPACE CAULKING WALL CONSTRUCTION ANCHORS ADJACENT FINISHES

SAMPLE NOTATION:

FLOOR MATERIAL HOLLOW METAL FRAME BASE ANCHOR STOPS SINGLE GLAZING THERMOPANE INSULATING GLASS FRAMING HEADER

VERTICAL GLAZING BAR Double Glazed MULLION Double Glazed MULLION @ WALL MULLION HEAD Double Glazed BASE @ SIDE LIGHT Double Glazed CORNER MULLION Double Glazed CORNER MULLION Double Glazed MULLION BASE Double Glazed HORIZONTAL GLAZING BAR Double Glazed

STOREFRONT WINDOWS

STOREFRONT WINDOWS

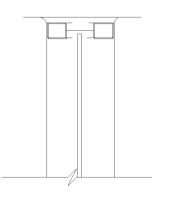
NOTATION CHECKLIST, SAMPLE NOTES

FRAME TYPE, MATERIAL & SIZE GLAZING: SINGLE/DOUBLE GASKET BEAD SHIM SPACE CAULKING WALL CONSTRUCTION ANCHORS ADJACENT FINISHES

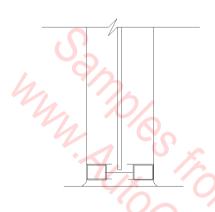


STOREFRONT WINDOWS

STOREFRONT WINDOWS

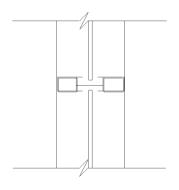


MULLION @ WALL MULLION HEAD Single Glazed



MULLION BASE Single Glazed NOTATION CHECKLIST, SAMPLE NOTES

FRAME TYPE, MATERIAL & SIZE GLAZING: SINGLE/DOUBLE GASKET BEAD SHIM SPACE CAULKING WALL CONSTRUCTION ANCHORS ADJACENT FINISHES FLOOR MATERIAL HOLLOW METAL FRAME BASE ANCHOR STOPS SINGLE GLAZING THERMOPANE INSULATING GLASS FRAMING HEADER

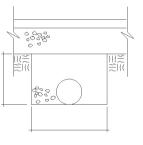


HORIZONTAL GLAZING BAR Single Glazed

SUBDRAINS & UNDERDRAINS



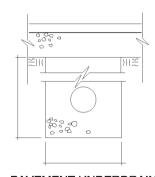
SUBDRAIN



PAVEMENT UNDERDRAIN



SUBDRAIN



PAVEMENT UNDERDRAIN

SUBDRAINS & UNDERDRAINS

DETAIL DATA CHECKLIST

DRAINAGE

Types of pipe for subsurface drains are:

Corrugated metal

Flexible plastic

Concrete

_Clay tile _Asbestos cement

Asbestos cement
Rigid plastic
Porous and unperforated
Install perforated drain with holes facing down
Drainpipe should be sloped to a sump or outfall
Grade filter material above and around drainpipe
Depth and spacing of subdrains depends on soil type (see civil engineering handbook tables)
Trench drains should slope to a drainpipe

DRAIN INLET COVERS

Usually precast concrete or cast iron (also ductible iron)
_Frames and grates available for light and heavy loading conditions

Shapes available:

Round Rectangular

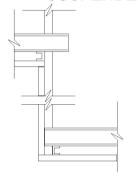
Square

Linear

NOTATION CHECKLIST, SAMPLE NOTES

PAVING BASE FINISH GRADE/PAVING AGGREGATE BACKFILL COMPACTED SUBGRADE DRAINPIPE/DRAIN TILE

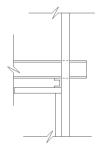
SUSPENDED CEILINGS



SUSPENDED CEILING @ SOFFIT



SUSPENDED CEILING @ SOFFIT



SUSPENDED CEILING @ **FURRED WALL**

SUSPENDED CEILINGS

DETAIL DATA CHECKLIST

SUSPENDED CEILINGS

- There are many varied suspended ceiling systems and products; see manufacturers' catalogs for recommendations for specifications, detailing, and application.

- recommendations for specifications, detailing, and application.

 A typical gypsum board support system:
 Hanger wires are typically spaced 48" o.c. and within 6" of the end of carrying channel
 Hanger wires support 1-1/2" carrying channels set at 48" o.c. and within 6" of walls

 7/8" metal furring channels are supported at right angles to the carrying channels
 Integrated lighting and acoustical tile systems come complete with all hardware and accessories.

 Use manufacturers' shop drawings as guides for any special customized detailing of a selected product.
- See manufacturers' recommendations regarding attachment of hanger wire to various types of overhead construction.

NOTATION CHECKLIST, SAMPLE NOTES

HANGER WIRE
1-1/2" CARRYING CHANNEL
MAIN RUNNER
CROSS TEE
CEILING TILE
3/4" FURMING CHANNEL
GYPSURMWALLBOARD

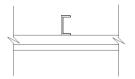
KNEK BEAU ACKS/MCHORS/FIXTURES NGER WIRES, 3 TURNS AROUND ITSELF IN BEAM, SUPPORT W/HANGER WIRE OUSTICAL TILE CLG. ULK GYPSUM BOARD AROUND CLG. ENETRATIONS

SUSPENDED CEILINGS

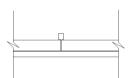
SUSPENDED CEILING @ EXPANSION JOINT

SUSPENDED GYPSUM WALLBOARD CEILING @ WALL

CONCEALED GRID FOR CEILING TILE



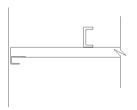
SUSPENDED CEILING @ CARRYING CHANNEL



SUSPENDED GYPSUM WALLBOARD CEILING



EXPOSED GRID FOR CEILING TILE



SUSPENDED PLASTER CEILING @ WALL

SUSPENDED CEILINGS

DETAIL DATA CHECKLIST

SUSPENDED CEILINGS

- USPENDED CEILINGS
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 7/8" metal furning and acquisited tile systems complete with all partners and accessories.

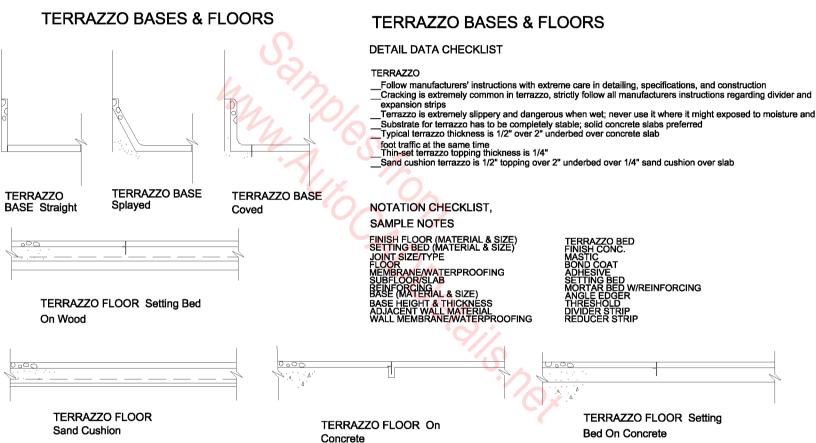
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 Use manufacturers' shop drawings as guides for any special customized detailing of a selected product.
 See manufacturers' recommendations regarding attachment of hanger wire to various types of overhead construction.

NOTATION CHECKLIST. SAMPLE NOTES

HANGER WIRE
1-1/2" CARRYING CHANNEL
MAIN RUNNER
CROSS TEE
CEILING TILE
3/4" FURRING CHANNEL
GYPSUM WALLBOARD
LATH & PLASTER
SPECIAL FINISHES
CORNER BEAD
TRACKS WICES, FLYTURES
HANGER WIRES
MAIN BEAM, SUPPORT WHANGER WIRE

OKO/S. NOX

ACOUSTICAL TILE CLG.
CAULK GYPSUM BOARD AROUND CLG.
PENETRATIONS
'S' SCREW
METAL WALL ANGLE
SECURE METAL WALL TRIM TO CLG.
SUPENSION SYSTEM (not wall)
LINE @ WALL
BATT INSULATION
PROVIDE FIRE DAMPERS WHERE DUCTS
PENETRATE ENVELOPE
LIGHT FIXTURES



TERRAZZO FLOORS

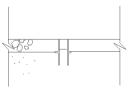


Heavy Top Divider Strip

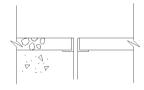


Thin Top Divider Strip

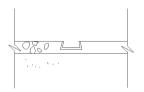
"L" Divider Strip



Expansion Strip



Double Angle Divider Strip



Abrasive Channel Strip

TERRAZZO FLOORS

DETAIL DATA CHECKLIST

- Follow suppliers' instructions with extreme care in detailing, specifications, and construction Cracking is extremely common in terrazzo, strictly follow all manufacturer's instructions regarding
- divider and expansion strips
- divider and expansion strips
 Substrate for terrazzo has to be completely stable; solid concrete slabs preferred
 Terrazzo is extremely slippery and dangerous when wet; never use it where it might exposed to
 moisture and foot traffic at the same time
 Thin-set terrazzo topping thickness is 1/4"
 Typical terrazzo thickness is 1/2" over 2" underbed over concrete slab
 Sand cushion terrazzo is 1/2" topping over 2" underbed over 1/4" sand cushion over slab

NOTATION CHECKLIST, SAMPLE NOTES

SAMPLE NOTES

FINISH FLOOR (MATERIAL & SIZE)

SETTING BED (MATERIAL & SIZE)

JOINT SIZE/TYPE

FLOOR

MEMBRANE/WATERPROOFING

SUBFLOOR/SLAB

BEINFORCING

BASE (MATERIAL & SIZE)

BASE HEIGHT & THICKNESS

ADJACENT WALL MATERIAL

WALL MEMBRANE/WATERPROOFING

TERRAZZO BED

FINISH CONC.



"L" Divider Strip

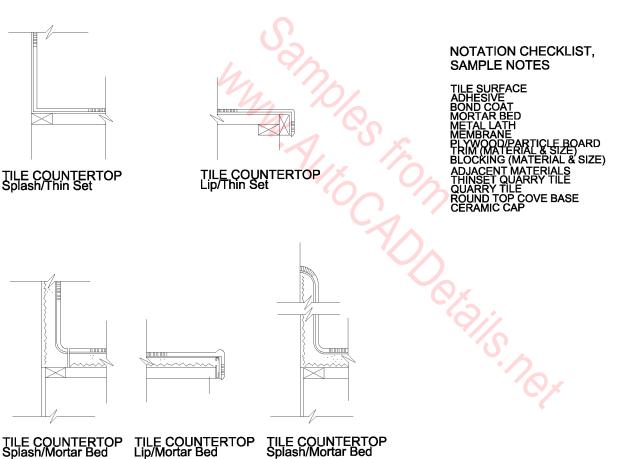
WOOD UNDERLAYMENT WOOD SUBFLOOR TICLE BOARD UNDERLAYMENT

BED W/REINFORCING

TILE COUNTERTOPS

TILE COUNTERTOPS

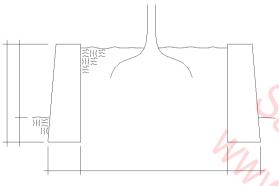
BULLNOSE CAP
WATERPROOF GYPSUM BOARD
ADHESIVE
SETTING BED
MORTAR BED W/REINFORCING
ANGLE EDGER
THRESHOLD
HARDWOOD DIVIDER STRIP
REDUCER STRIP
DOOR
SILICONE SEALER
SLOPE FROM CURB TO DRAIN



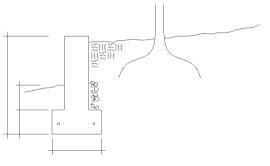
TILE: CERAMIC TILE FLOOR

DETAIL DATA CHECKLIST CERAMIC TILE

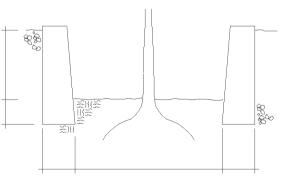
TREE PLANTERS



TREE PLANTER ABOVE GRADE



TREE PLANTER ABOVE GRADE



TREE PLANTER BELOW GRADE

TREE PLANTERS

DETAIL DATA CHECKLIST

```
TREE PLANTING
Hole should be twice the diameter of the container
Break subsoil with a pick or otherwise scar the walls of the hole to aid poor penetration
Soil ball should rest on firm soil to avoid settling
Remove burlap from the top of the ball (not necessary to remove from all around root ball)
Backfill hole with original soil

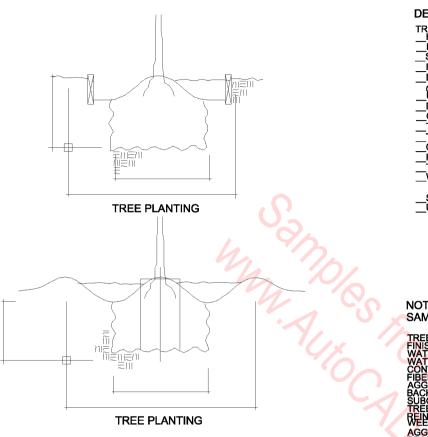
OR
Use topsoil, peat moss and cow manure in 9" layers, watering each level until settled
Do not tamp
Ground line should be the same as, or slightly lower on the tree, than it was at the nursery
The water levee around the tree should be 2' to 4' in diameter
The berm around levee should be 4" high
Cover levee and berm with 2" of mulch
Remove any shoots on the trunk within 6" of the soil
Trunk may be wrapped with tree wrap
Where tree is planted in a hollow, provide a
"land drain" if necessary to dispose of surplus water
(clean rubble acts as a soakaway)
Securely stake each tree
Use 10 ga. twisted wire with a garden hose to
wrap around the trunk
```

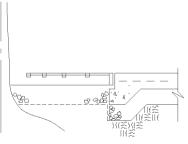
NOTATION CHECKLIST, SAMPLE NOTES

TREE/TREEBALL
FINISH GRADE
WATER BASIN
WATER LEVEE
CONTAINER OUTLINE
FIBER MAT
AGGREGATE BASE
BACKFILL
SUBGRADE
TREE GUY/STAKE
REINE/OBCLING
WELPHOLES (SIZE & SPACING)
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL
BACKFILL
BACKFILL
BACKFILL
ST MULCH LAYER (where applicable)

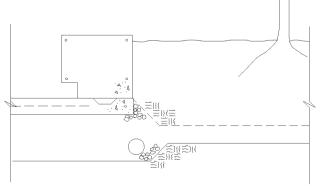
SPECIFIED SOIL MIX
DRIP EMITTER
MICRO TUBING
DRIP LINE
GRAVEL SUMP
PLANT ROOT BALL AT GRADE AS IN NURSERY
REMOVE CONTAINER FROM ROOT BALL
RIGID INSULATION
PLANTER WALL
DRAINAGE LAYER
2 STRANDS #12 GAUGE GALV. WIRE
FLASTIC RIBBON: 2 PER WIRE
CUT WIRES FOR VISIBILITY W. YELLOW
PLASTIC RIBBON: 2 PER WIRE
CUT WIRE BELOW: 2 PER WIRE
CUT WIRE BELOW: 3 PER TREE, DRIVE
STAKES FLUSH WITH FINAL GRADE
NEW 3/4" RUBBER GARDEN HOSE AROUND TREE
3" GALV. TURNBUCKLE
WRAP ENTIRE TRUNKW/ APPPROVED MATERIAL
TO SECURE @
2' INTERVALS W/ GRAFTING CORD

TREE PLANTERS





TREE PLANTING GRATE



TREE PLANTER BENCH WALL

TRFF PLANTERS

DETAIL DATA CHECKLIST

TREE PLANTING
Hole should be twice the diameter of the container
Break subsoil with a pick or otherwise scar the walls of the hole to aid penetration
Soil ball should rest on firm soil to avoid settling
Remove burlap from the top of the ball (not necessary to remove from all around root ball)
Backfill hole with original soil
OR
Use topsoil, peat moss and cow manure in 9" layers, watering each level until settled
Do not tamp
Ground line should be the same as, or slightly lower on the tree, than it was at the nursery
The water levee around the tree should be 2" to 4" in diameter
The berm around levee should be 4" high
Cover levee and berm with 2" of mulch
Remove any shoots on the trunk within 6" of the soil
Trunk may be wrapped with tree wrap
Where tree is planted in a hollow, provide a "land drain" if necessary to dispose of surplus water
(clean rubble acts as a soakaway)
Securely stake each tree
Use 10 ca. twisted wire with a garden hose to wrap around the trunk

NOTATION CHECKLIST, SAMPLE NOTATION

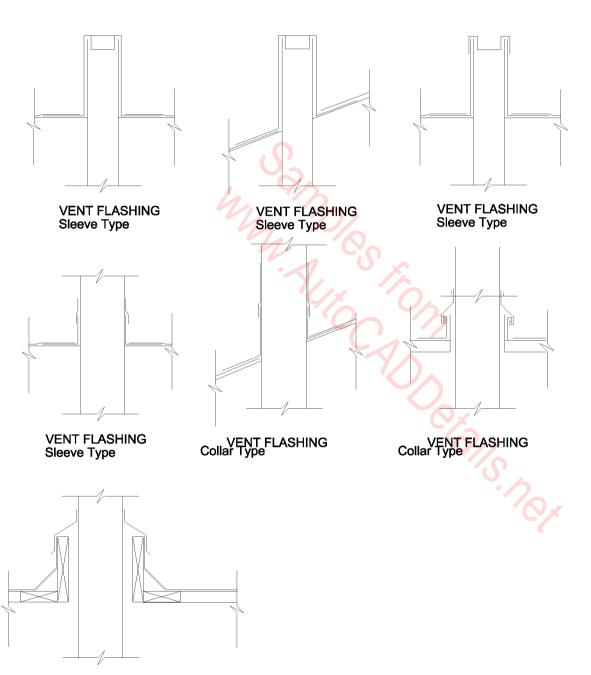
TREE/TREEBALL
FINISH GRADE
WATER BASIN
WATER LEVEE
CONTAINER OUTLINE
FIBER MAT
AGGREGATE BASE
BACKFILL
SUBGRADE
TREE GUY/STAKE
REINFORCING (SIZE & SPACING)
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/
STRUCTURAL BACKFILL
ORIGINAL GRADE (Shown dashed)
POROUS BACKFILL
3" MULCH LAYER (where applicable)
SPECIFIED SOIL MIX

DRIP EMITTER
MICRO TUBING
DRIP LINE
GRAVEL SUMP
PLANT ROOT BALL AT GRADE AS IN NURSERY
REMOVE CONTAINER FROM ROOT BALL
RIGID INSULATION
PLANTER WALL
DRAINAGE LAYER
2 STRANDS #12 GUAGE GALV. WIRE
FLAG GLY WIRES FOR VISIBILITY W. YELLOW
PLASTIC RIBBON - 2 PER WIRE
CUT WIRE BELOW SON
STAKES FLUSH WITH FINAL GRADE
NEW 3/4" RUBBER GARDEN HOSE AROUND TREE
3" GALV. TURNBUCKLE
WRAP ENTIRE TRUNK W/ APPPROVED MATERIAL
TO SECOND BRANCH. SECURE
2 'INTERVALS W/ GRAFTING CORD

VENT FLASHING

VENT FLASHING Collar Type

VENT FLASHING



NOTATION CHECKLIST,
SAMPLE NOTES

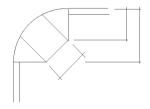
VENT_PIPE/STACK
(IYPE, SIZE & MINIMUM HEIGHT)
SLEEVE FLASHING
COLLAR FLASHING
INNER FLANGE
ADHESIVE/SEALANT/CAULKING
ROOFING SUBFACE
(IYPE, LAYERS & COVER MATERIAL)
ROOF DECK/INSULATION
ROOF CONSTRUCTION
METAL VENT
PREMOLDED PIPE SEAL
SEALANT
FLASHING FELT
STAINLES STEEL CLAMPING RING
WATER CUTOFF MASTIC
CORE HOLE AS REQUIRED
OPENINGS FOR VENTS TO BE
PREFORMED
BUILT-UP ROOF
ROOF PLIES UNDER CAP
FACTORY CURB
RIGID INSULATION
METAL DECKING
DUCT

WHEELCHAIR RAMPS

FULL-SCALE GENERIC DETAILS



WHEELCHAIR RAMP/CURB CUT WHEELCHAIR RAMP/CURB CUT



WHEELCHAIR RAMP/CURB CUT Corner

WHEELCHAIR RAMPS

DETAIL DATA CHECKLIST

RAMPS

- See building code and handicap design regulations for slope and handrail requirements
 Solope is typically maximum for wheelchairs for up to 30'
 Provide curbs 4" to 6" high at each side of ramps to prevent side runaways or tipping of wheelchairs
 Provide nonslip treatment (abrasive surface or broom finish applied across width of ramp)

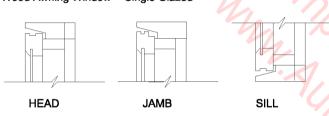
WHEELCHAIR RAMPS

NOTATION CHECKLIST, SAMPLE NOTES

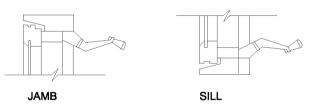
CURB TYPE
CONCRETE RAMP FINISH
CONCRETE RAMP SI OPE
1/4" GROOVES, 3/4" O.C.
STIFF BROOM FINISH ON RAMP SURFACE
TEXTURED CONCRETE
COURSE BROOM FINISH
WARP AS REQD.
CONC GUTTER
CURB TAPER BEYOND
1/2" EXP. JOINT
1/2" JOINT FILLER MATERIAL
TOP OF CURB
REINFORCING
SEE FOR HEIGHT & WIDTH OF CURB CUT
RAMP DOWN

WOOD AWNING WINDOWS

Wood Awning Window -- Single Glazed



Wood Awning Window W/Operator -- Single Glazed



WOOD AWNING WINDOWS

DETAIL DATA CHECKLIST

WOOD AWNING WINDOWS

Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.

See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

Detail drawings are required mainly to show the relationship of windows to wall construction such as

connections to wood frame, masonry, or concrete wall construction.

Details or window schedules should show rough-opening sizes and shim tolerance allowances

(1/2" all around is a common allowance for shim space).

Details should show flashing and caulking at heads, jambs, and sills.

See manufacturers' recommendations for connections to varied wall construction.

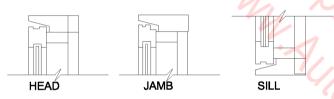
NOTATION CHECKLIST, SAMPLE NOTES

ALL CONSTRUCTION
I'M SPACE
I'P CAPWEATHERSTRIPPING/FLASHING
ULKING/GROUT
NISH HEAD'SILU/JAMB
NDOW TYPE, MATERIAL & FINISH

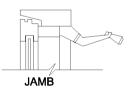
WOOD NAILER

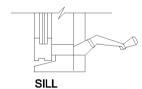
WOOD AWNING WINDOWS

FULL-SCALE GENERIC DETAILS Wood Awning Window -- Double Glazed



Wood Awning Window W/Operator -- Double Glazed





WOOD AWNING WINDOWS

DETAIL DATA CHECKLIST

- WOOD AWNING WINDOWS
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 See manufacturers' recommendations for connections to varied wall construction.

WOOD AWNING WINDOWS

NOTATION CHECKLIST, SAMPLE NOTES WALL CONSTRUCTION
SHIM SPACE
DRIP CAPWEATHERSTRIPPING/FLASHING
CAULKING/GROUT GUARD E/REMOVABLE

WOOD NAILER

DETAIL DATA CHECKLIST BASEBOARDS Baseboards are manufactured in a large variety of standard sizes and profiles; see suppliers' catalogs for all the options available When choosing a baseboard design or material, consider maintenance needs Provide hardness and surface finish resistance to damage from: __Cleaning equipment __Furniture legs ___rufmane legs __Floor cleaning chemicals. __Some contractors will attempt to use up scrap baseboard material by piecing together short lengths of baseboard Specify or note that all baseboards be installed full length and continuous without joints in any run NOTATION CHECKLIST. SAMPLE NOTES WOOD BASEBOARD WOOD BASEBOARD 1/2 FULL SIZE 1/2 FULL SIZE 1/2 FULL SIZE BASE (MATERIAL & TYPE) HEIGHT & THICKNESS CENT WALL MATERIAL MEMBRANE WATER PROOFING CENT FLOOR MATERIAL OR IBRANE/WATERPROOFING FLOOR/SLAB LANT/ADHESIVE TENERS TENERS WOOD BASEBOARD WOOD BASEBOARD 1/2 FULL SIZE 1/2 FULL SIZE 1/2 FULL SIZE WOOD BASEBOARD Flush WOOD BASEBOARD Flush WOOD BASEBOARD Flush WOOD BASEBOARD Flush

WOOD BASEBOARDS

WOOD BASEBOARDS

WOOD BEAM SPLICE & WOOD BEAM @ GLUE LAM BEAM

WOOD BEAM @ SPLICE

WOOD BEAM SPLICE & WOOD BEAM @ GLUE LAM BEAM

DETAIL DATA CHECKLIST

POST AND BEAM CONSTRUCTION

WOOD POST AND BEAM CONNECTORS

Connector types:

Nailed metal side plates

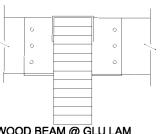
For light framing with minimal lateral forces
Bolted metal side plates

Sizes and spaces of bolts as per code or engineering calculations
U plate connector, nailed or bolted as required by engineering calculations or manufacturer's tables
Sheet metal connector, sized and nailed as required by engineering calculations or manufacturer's tables

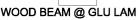
NOTATION CHECKLIST, SAMPLE NOTES

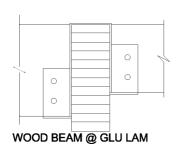
X WOOD BEAM X WOOD BEAM STEEL HINGE CONNECTOR BOLT CONNECTORS STEEL SADDLE HANGER

Alls. nox



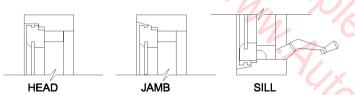
WOOD BEAM SPLICE





WOOD CASEMENT WINDOWS

Wood Casement -- Single Glazed



WOOD CASEMENT WINDOWS

DETAIL DATA CHECKLIST

- WOOD CASEMENT WINDOWS

 Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.
- See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes. Detail drawings are required mainly to show the relationship of windows to wall construction such as
- connections to wood frame, masonry, or concrete wall construction.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.

 See manufacturers' recommendations for connections to varied wall construction.

Wood Casement -- Double Glazed

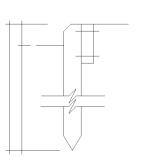


NOTATION CHECKLIST, SAMPLE NOTES WALL CONSTRUCTION
SHIM SPACE
DRIP CAPWEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FINISH HEADSILU/JAMB
HARDWARE/OPERATOR
VENTWEEP HOLEWIND GUARD
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING
CASEMENT WOOD WINDOW
WOOD WINDOW
WOOD STOP, 1/2" X 1"

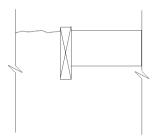
WOOD NAILER

WOOD CURBS & EDGE STRIPS

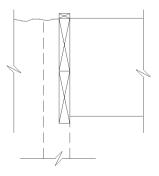
WOOD CURBS & EDGE STRIPS



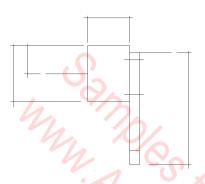
WOOD CURB



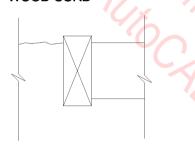
WOOD EDGE STRIP



WOOD EDGE STRIP



WOOD CURB



WOOD EDGE STRIP

DETAIL DATA CHECKLIST

- WOOD CURBS Use redwood, cedar, cypress or treated wood Sizes:
 - 2x6, 2x8, 6x6, 6x8, and railroad ties
- Hold wood curbs in place with wood stakes, rebar
- or bolts Stakes may be 1x2, 2x2, 2x3, or 2x4, 16" to 24"
- 24" to 48" o.c., and/or at ends of timbers
 __Use 2 20d ga. nails per stake
- For rebar, use a #4 bar,18" long at each end of
- timber Form a pocket around the bar and fill it with
- concrete
 WOOD BORDER BOARDS AND EDGE STRIPS
 __Use redwood, cedar, cypress or treated wood

- Use 2X4s for straight runs
 Use laminated 1/2" x 4" redwood strips for curves
 Use heavier timber wood curbs to restrain larger
- planter or paver areas and for mowing curbs

WOOD CURBS & EDGE STRIPS

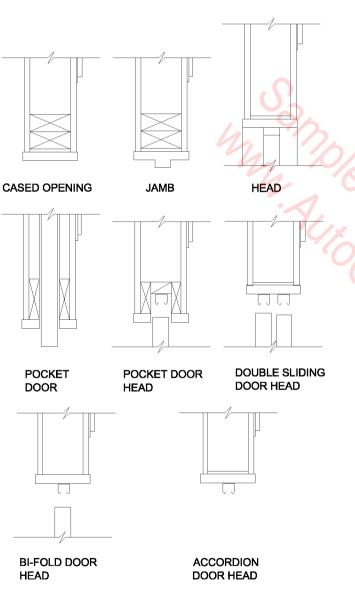
NOTATION CHECKLIST. SAMPLE NOTES

FINISH GRADE/PAVING/PLANTING BED WOOD CURB/PAVING EDGE PAVING BASE SUBGRADE STAKES (MATERIAL, SIZE & SPACING)

- FINISH GRADE
 ASPHALT SEE SITE PLAN FOR THICKNESS & BASE
 2 X EDGING, TREATED
 2 X CONST. HEART REDWOOD HEADER
 2 X 2 X 18" LONG CONST. HEART REDWOOD STAKES
 2 X 2 X 14KES @ 3-0" O.C. TREATED
 ALL JOINTS TO OCCUR @ STAKES, NAIL HEADER
 TO STAKE W/2 8 d GALV. NAILS

WOOD DOORS AND DOOR FRAMES

WOOD DOORS AND DOOR FRAMES



DETAIL DATA CHECKLIST

Pocket and Sliding Doors

- _Usually made of standard hollow or solid core doors with top-mounted hanging slider hardware
 _3/16" to 1/4" clearance is normally provided between the face of the door and the pocket recess framing and trim
 _Floor tracks and door pull hardware are referenced in specifications, general notes, or door hardware schedule than for a regular interior door.
- Trim at the header is usually designed to hide the hanging hardware so rough opening to header may be higher
- Bifold Door _Sometimes includes bottom pivot and special hardware
- Trim may be required as in preceding note
- Magnetic or other surface-mounted catch may be used and so noted

- Accordion door
 These are bought as manufactured units, either in standard sizes or custom sizes
- Usually a vinyl covered metal frame door surface-mounted in a cased opening

11/5. DOX

Magnetic or other surface-mounted catch may be used and so noted

NOTATION CHECKLIST, SAMPLE NOTES

WALL CONSTRUCTION
SHIM SPACE
FINISH HEADJAMB
ADJACENT FINISHES
CASING/TRIM
DOOR TYPE: MATERIAL & FINISH
FIXTURES/ATTACHMENTS/HARDWARE
ROUGH OPENING/FINISH OPENING

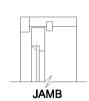
X 4 HEADER OOD CASING

WOOD DOUBLE HUNG WINDOWS

WOOD DOUBLE HUNG WINDOWS

Wood Double Hung -- Single Glazed

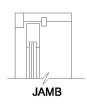






Wood Double Hung -- Double Glazed







DETAIL DATA CHECKLIST DOUBLE HUNG WINDOWS

- Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.

 See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.

 Details or window schedules should show rough-opening sizes and shim tolerance allowances

 (1/2" all around is a common allowance for shim space).

 Detail drawings are required mainly to show the relationship of windows to wall construction such as
- connections to wood frame, masonry, or concrete wall construction.

 Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

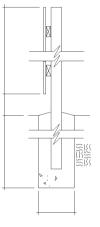
NOTATION CHECKLIST, SAMPLE NOTES

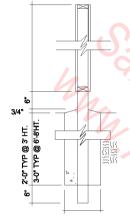
WALL CONSTRUCTION
SHIM SPACE
DRIP CAPWEATHERSTRIPPING/FLASHING
CAULKING/ROUT
EINISH HEAD/SILL/JAMB
WINDOW TYPE, MATERIAL & FINISH

GUARD E/REMOVABLE

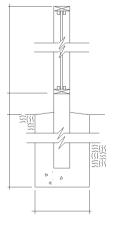
WOOD NAILER

WOOD FENCING



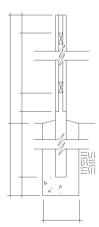


WOOD FENCE





WOOD FENCE



WOOD FENCE

WOOD FENCING

DETAIL DATA CHECKLIST

WOOD FENCING

- Footings for posts should be below frost line
- Below grade, wrap posts with a layer of building paper
- AND Set in a 12" diameter concrete collar on compacted fill
- OR Set on concrete footing or concrete piers with angles or straps to anchor and support posts
- OR Rest the post on gravel (cleats optional)
- AND Fill in the hole with compacted fill

- r-iii in the hole with compacted fill
 Add a stone layer on top of fill if needed for stability
 Common materials sizes:
 4x4 posts 8' long for 5' to 6' height
 Supports for 2x4 rails laid flat for clear spans at 4' maximum
 2x4 rails on edge can span 6' without sagging
 Use dados, lap joints, bolting, and galvanized connectors in detailing
 Avoid butt joints and toenalling

- Use offsets and buttees supports in long lengths subject to wind pressure

 Fence gates are subject to heavy loads and abuse, so use extra-heavy post supports, cross bracing, ^I and heavy-duty hardware
- Slope tops of posts to drain water
 Slope rails or add drain holes to avoid accumulation of water at joints

NOTATION CHECKLIST, SAMPLE NOTES WOOD POST (SIZE & SPACING) WOOD FRAMING/NAILERS BOARDS/PANELS (TYPE, SIZE, FINISH & SPACING) TRIM BOLTS/ANCHORS

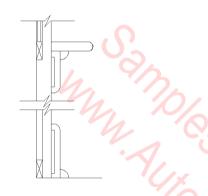
FINISH GRADE/PAVING FOOTING BACKFILL/AGGREGATE/SAND 2 X 4 CONTINUOUS RAIL (cedar/redwood/treated)
1 X 8 BOARDS (cedar/redwood/treated)
BOARDS - OVERLAP EDGES 1/2" @
ALTERNATE SIDES
4 X 4 POSTS @ 8"O.C.
12" DIA. CONC. FOOTING
WRAP POSTS BELOW GRADE W/BUILDING PAPER
COMPACTED FILL (below footing)
COMPACTED EARTH FILL (sometimes in lieu of conc.
footing. @ wood posts min. 3'-0" below grade)
WOOD POSTS (treated/extend. 6" typ. thru conc.
footing, max. spacing typ. 6'-7')
45D CUT (@ top of wood posts)

WOOD FLOORS

WOOD FLOORS

		DETAIL DATA CHECKLIST	
WOOD STRIP FLOOR Wood Underlayment	y Polo	WOOD FLOORING Hardwood thickness typically 3/8" to 2 Industrial wood block or strip is typica Plank or strip flooring on concrete ma Wood sleepers or nailers Rubber-base adhesive Asphalt mastic	ally 2-1/2" to 4" thick
		ventilation and prevent moisture swel	lling and/or decay procrete with power fasteners or mounted in an adhesive bed
4		and the flooring	grade requires a vapor barrier under the slab and between slab
RESILIENT WOOD FLOOR	(C/x		grade requires a vapor barrier under the stab and between stab ad sizes, species, colors, finishes, and applications of wood floori
	10	NOTATION CHECKLIST, SAMPLE NOTES	
		FINISH FLOOR (MATERIAL & SIZE)	HARDWOOD FLOORING HARDWOOD PARQUET FLOORING
(4)		SLEEPER MORTAR BED ADHESIVE SETTING BED UNDERLAYMENT/MEMBRANE SUBFLOOR/SLAB	CONCRETE PLYWOOD UNDERLAYMENT PARTICLE BOARD UNDERLAYMENT PLYWOOD SUBFLOOR MASTIC ADHESIVE SAND & POLISH
WOOD STRIP BLOCK FLOOR On Concrete Slab		SUBFLOOR/SLAB	PARTICLE BOARD UNDERLAYMENT PLYWOOD SUBFLOOR MASTIC
			ADHESIVE SAND & POLISH
\(\alpha\)\(\alpha\)\(\alpha\)\(\alpha\)			
WOOD PARQUET FLOOR	WOOD STRIP INDU	STRIAL FLOOR	
		*/	
18 18 18 18 18 18 18 18 18 18 18 18 18 1	[A] A		, A
WOOD STRIP FLOOR On Cement Topping	RESILIENT WOOD I	FLOOR On Slab On Grade	WOOD BLOCK INDUSTRIAL FLOOR

WOOD PANELING



WOOD PANELING @ BASE





WOOD PANELING @ CEILING WOOD PANELING @ CEILING

WOOD PANELING

DETAIL DATA CHECKLIST PANELING

Paneling can be applied to wood or metal framing with or without furring. Use furring strips or channels for

Paneling can be applied to wood or metal framing with or without furring. Use furring strips or channels fo thermal or acoustic isolation, or to compensate for uneven wall construction.

Use wood or metal furring when installing panels over masonry walls. 1 x 2 wood furring over masonry is typical spaced at 16" vertically and horizontally.

Grades of hardwood plywood paneling:

__Premium and Good: Minimum flaws, for stain finish
__Sound: For paint finish

Sound: For paint tinish
Lutility: Some visible defects, unmatched, for paint finish
Backing: Many flaws, not for visible use
Thicknesses: 1/8" to 1", in 1/16" or 1/8" layers
Textures and finishes come in wide variety; see the suppliers' catalogs

NOTATION CHECKLIST, SAMPLE NOTES

PANEL (MATERIAL & THICKNESS) FURRING/BLOCKING (TYPE & SIZE) FURRING/BLOCKING (TYP AR SPACE AR SPACE AR SPACE ADJACENT MATERIALS LINE OF CEILING WALL CONSTRUCTION CEILING CONSTRUCTION

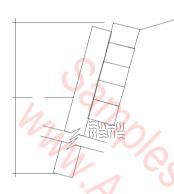
CH VENEER
OM MATCH VENEER
NG STRIPS XLĽ ÜŇSÚPPORTED EDGES FILL SPLICES BETWEEN FURRING RECESSED JOINT V' JOINT BUTT JOINT OUTSIDE MITERED CORNER



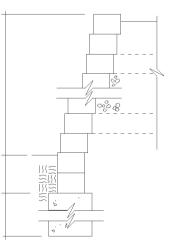
WOOD PANELING @ CEILING WOOD PANELING @ CEILING

WOOD PLANTERS/RETAINING WALL

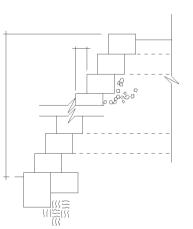
WOOD RETAINING WALL Battered/Low



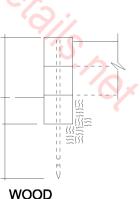
WOOD RETAINING WAL Sloped/Low



WOOD RETAINING WALL Battered/High



WOOD RETAINING WALL Battered/High



PLANTER/RETAINING **WALL**

WOOD PLANTERS/RETAINING WALL

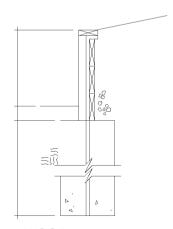
DETAIL DATA CHECKLIST

WOOD RETAINING WALLS
Stack timbers horizontally
Support and anchor timbers with:
Vertical timbers
Concrete piers
Vertical steel I-beams
Tie timbers vertically with min. 2 #4 bars per tie, in 1/2" drilled hole
Tie back into slope with10' o.c. deadman ties
Where necessary, use vertical rods at 4' o.c.
Provide gravel backfill behind filter cloth
Vertical wood members may be OK for walls up to 4' high, without

surcharge, if planted 4' deep

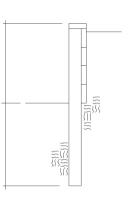
NOTATION CHECKLIST, **SAMPLE NOTES**

TOP OF WALL ELEVATION
EINISH GRADE (DASHED)
TIMBER UNITS (TYPE & SIZE)
BOLTS/ANCHORS/DOWELS
STEEL ROD/WOOD TIE BACKS ('DEADMAN')
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL
BACKFILL
FOOTING
AGGREGATE BASE
POROUS BACKFILL

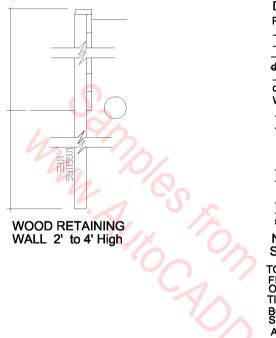


WOOD PLANTER/RETAINING **WALL**

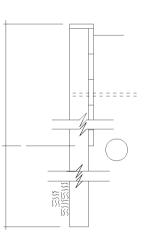
WOOD PLANTERS/RETAINING WALLS



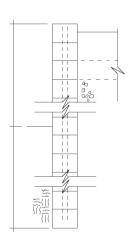
WOOD RETAINING WALL To 2' High



WOOD RETAINING WALL 2' to 4' High



WOOD RETAINING WALL 4' + High



WOOD RETAINING WALL 6x8 TIMBER/LOW

WOOD PLANTERS/RETAINING WALLS

DETAIL DATA CHECKLIST

POST AND BOARD RETAINING WALLS
_Set posts as deep as the wall is high

Walls under 2' high don't require weep holes or drains
For low walls, weep holes drilled into wall may be used instead of
drawgere drain is needed, run a 6" pipe along back of wall at base
Walls over 4' high may have their posts tied back to a concrete

deadhapaets a horizontal rods bolted ^Ithrough

WOOD RETAINING WALLS

Stack timbers horizontally

__Stack timbers norizontally
_Support and anchor timbers with:
___Vertical timbers
__Concrete piers
___Vertical steel I-beams
_Tie timbers vertically with min. 2 #4 bars per tie, in 1/2" drilled hole
_Tie back into slope with10' o.c. deadman ties

Where necessary, use vertical rods at 4' o.c. Provide gravel backfill behind filter cloth Vertical wood members may be OK for walls up to 4' high, without

surcharge, if planted 4' deep

NOTATION CHECKLIST, SAMPLE NOTES

TOP OF WALL ELEVATION

TOP OF WALL ELEVATION
FINISH GRADES
ORIGINAL GRADE (DASHED)
TIMBER UNITS (TYPE & SIZE)
BOLTS/ANCHORS/ DOWELS
STEEL RODWOOD TIE BACKS ('DEADMAN')
AGGREGATE DRAIN BED
DRAIN PIPE/DRAIN TILE
COMPACTED SUBGRADE/STRUCTURAL
BACKFILL
FOOTING
AGGREGATE BASE

AGGREGATE BASE POROUS BACKFILL

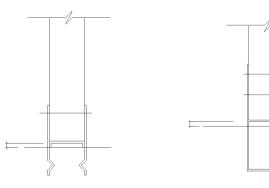


WOOD **RETAINING** WALL 6x8 Timber/Low

WOOD POST @ BASE

WOOD POST @ BASE

WOOD POST @ BASE



WOOD POST @ BASE

WOOD POST @ BASE

WOOD POST @ BASE

DETAIL DATA CHECKLIST

POST AND BEAM CONSTRUCTION

BASE CONNECTORS FOR WOOD POSTS
Wood post nominal and actual sizes

4 x 4 = 3-1/2" x 3-1/2"

6 x 6 = 5-1/2" x 5-1/2"

8 x 8 = 7-1/2" x 7-1/2"

Base types:
Base plate with side plates
Precast metal shoe plate
U plate embedded in concrete

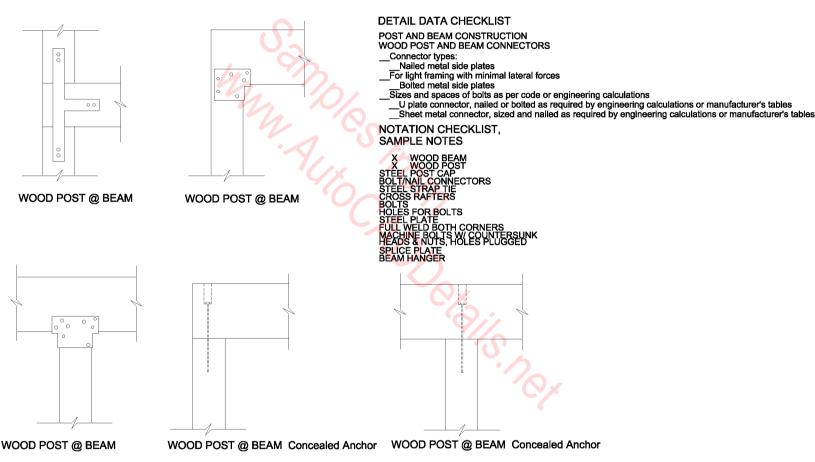
U plate embedded in concrete
H plate embedded in concrete
Provide approx. 3/4" leveling grout under base plate on concrete slabs or footings
Embed 1/2" anchor bolts with hook ends into concrete slab or footing
Use galvanized steel connectors
Size and number of bolts, nails, and other connectors as required by engineering calculations
Match the fitted base support size to wood post size
Don't use oversized base connectors and try to compensate with wood wedges or shims

NOTATION CHECKLIST, SAMPLE NOTES

WOOD POST BASE HOLES ETE FOOTING ETE PEDESTAL TOP OF FOOTING TO STEEL BASE

WOOD POST @ BEAM

WOOD POST @ BEAM



WOOD POST @ BEAM WOOD POST @ BEAM WOOD POST @ BEAM 0 0 0 WOOD POST @ BEAM WOOD POST @ BEAM

WOOD POST @ BEAM

DETAIL DATA CHECKLIST

POST AND BEAM CONSTRUCTION

- WOOD POST AND BEAM CONNECTORS

 Connector types:

 Nalled metal side plates
 For light framing with minimal lateral forces

 Bolted metal side plates
 Sizes and spaces of bolts as per code or engineering calculations

 U plate connector, nalled or bolted as required by engineering calculations or manufacturer's tables

 Sheet metal connector, sized and nailed as required by engineering calculations or manufacturer's tables

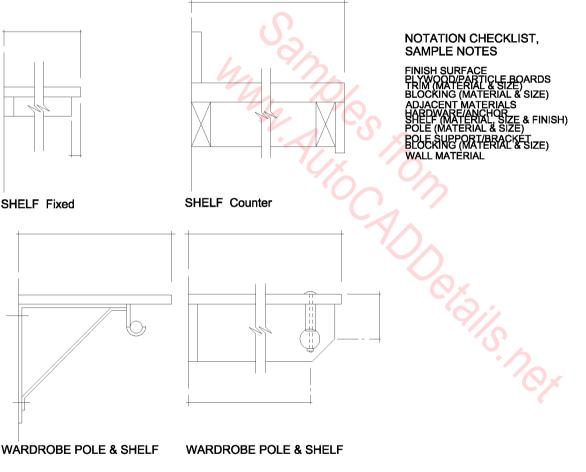
NOTATION CHECKLIST, SAMPLE NOTES

WOOD BEAM WOOD POST IL POST CAP 'INAIL CONNECTORS IL STRAP TIE SS RAFTERS SS RAFTERS Mails nox

STEEL PLATE FULL WELD BOTH CORNERS MACHINE BOLTS W/COUNTERSUNK HEADS & NUTS, HOLES PLUGGED SPLICE PLATE BEAM HANGER

WOOD SHELVING

WOOD SHELVING



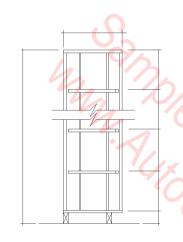
2 X 4 CONT., FRAME INTO SIDE WALLS 3/4" CORE MATERIAL, TOP & FRONT SOLID BLOCKING BEHIND SHELF PLASTIC LAMINATE TOP, EDGES, FRONT, SELF EDGE FACE OF WALL CHROME ROD SHELF & ROD BRACKET MAX. SPACING @ 4'-0" 5-0" ABOVE FINISHED FLOOR

WOOD SHELVING, BASE CABINET

WOOD SHELVING, BASE CABINET







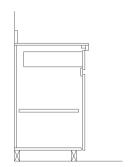
STANDING SHELVES Adjustable



FINISH SURFACE
PLYWOOD/PARTICLE BOARDS
TRIM (MATERIAL & SIZE)
BLOCKING (MATERIAL & SIZE)
ADJACENT MATERIAL & SIZE)
ADJACENT MATERIALS
HARDWARE/ANCHOR
DOOR/DRAWER
BLOCKING (MATERIAL & SIZE & FINISH)
BLOCKING (MATERIAL & SIZE)
WALL MATERIAL

Dolais, nox

2 X 4 CONT., FRAME INTO SIDE WALLS 3/4" CORE MATERIAL, TOP & FRONT SOLID BLOCKING BEHIND SHELF PLASTIC LAMINATE TOP, EDGES, FRONT, SELF PLASTIC LAWINATE TOP, EDGES, FROM, SEE. EDGE FACE OF WALL CHROME ROD SHELF & ROD BRACKET MAX. SPACING @ 4'-0" 5'-0" ABOVE FINISHED FLOOR



TYPICAL BASE CABINET & DRAWER

WOOD SLIDING GLASS DOORS AND WINDOWS

WOOD SLIDING GLASS DOORS AND WINDOWS

Wood Sliding. Glass Door -- Single Glazed







HEAD 3"=1'-0"

JAMB 3"=1'-0"

SILL 3"=1'-0"

Wood Sliding. Glass Door -- Double Glazed









DETAIL DATA CHECKLIST

WOOD SLIDING GLASS DOORS & WINDOWS
Note: You can combine these generic window details with varied exterior wall construction details
to create many hundreds of possible special combinations.

- Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.

 See manufacturers' and suppliers' catalogs for standard sizes, detail design data, materials, and finishes.
- Detail drawings are required mainly to show the relationship of windows to wall construction such as
- connections to wood frame, masonry, or concrete wall construction.
- Details or window schedules should show rough-opening sizes and shim tolerance allowances (1/2" all around is a common allowance for shim space).
- Details should show flashing and caulking at heads, jambs, and sills.
- See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST WALL CONSTRUCTION
SHIM SPACE
DRIP CAP WEATHERSTRIPPING/FLASHING
CAULKING/GROUT
FAISH WATERIAL & FINISH HARDWARE/OPERATOR VENT/WEEP HOLE/WIND GUARD

SAMPLE NOTES
GLAZING: SINGLE/DOUBLE/REMOVABLE
SCREEN/SCREEN FRAME
CASING/TRIM/ADJACENT FINISH
ROUGH OPENING/FINISH OPENING

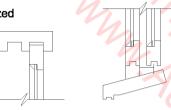
WOOD SLIDING WINDOWS

Wood Sliding -- Single Glazed



HEAD





3"=1'-0" **JAMB**

3"=1'-0" SILL

Wood Sliding -- Double Glazed

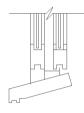
3"=1'-0"







3"=1'-0" **JAMB**



3"=1'-0" SILL

WOOD SLIDING WINDOWS

DETAIL DATA CHECKLIST

WOOD SLIDING WINDOWS

Note: You can combine these generic window details with varied exterior wall construction details in this book to create many hundreds of possible special combinations.

Wood windows are especially subject to moisture damage and warping; they require extra care throughout design, detailing, and specification, and extra protection during construction.

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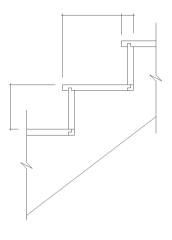
See manufacturers' recommendations for connections to varied wall construction.

NOTATION CHECKLIST. SAMPLE NOTES

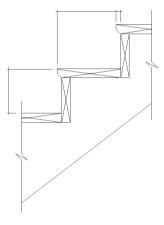
WALL CONSTRUCTION
SHIM SPACE
SHIM SPACE
DRIP CAPWEATHERSTRIPPING/FLASHING
CAULKING/GROUT
EINISH HEAD/SILL/AMB
WINDOW TYPE, MATERIAL & FINISH WIND GUARD DOUBLE/REMOVABLE CASING/TRIMADJACENT FINISH ROUGH OPENING/FINISH OPENING SLIDING WOOD WINDOW WOOD WINDOW WOOD STOP, 1/2" X 1"

WOOD NAILER UP 8" MIN.

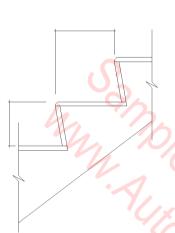
WOOD STAIRS



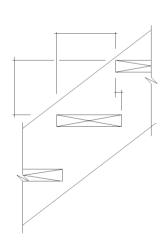
WOOD STAIR TREAD & RISER Closed



WOOD STAIR TREAD & RISER Closed



WOOD STAIR TREAD & RISER Closed



WOOD STAIR TREAD & RISER Open

WOOD STAIRS

DETAIL DATA CHECKLIST

WOOD STAIRS
Stairs may be shop built and installed as a unit. Use the design and construction standards of Architectural Woodwork Institute.
Rules of thumb:
Provide landing at every 15 risers maximum
Stair angle of 30 to 35 degrees is most comfortable
Treads and risers must not vary in size over 1/8" or they'll cause accidents
Optimum riser size is 7 to 7-1/2" with optimal tread of 9-1/2" to 10-1/2"
Minimum residential stair width is 36", 44" to 48" preferred

Minimum residential Statis

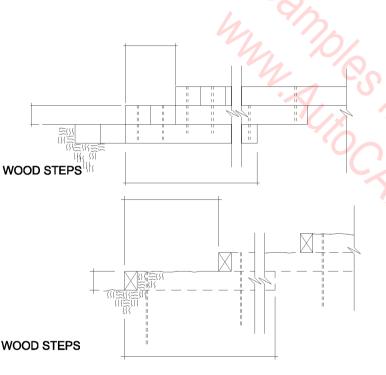
Handrails:
Height: 30" to 34"
Balcony or landing guardrail: 42"
Handrail or guardrail stiles: 9" minimum spacing.
Turn end of handrail into newel post, to floor or to wall
Wood tread and risers, use minimum 3/4" actual thickness
Attach wood treads and risers with screw connections and glue to prevent movement and squeaks
Wood stringers are usually cut from 2 x 12
Two side stringers are mandatory and one center stringer recommended
Provide fire blocking across stringer in closed riser with exposed soffit

NOTATION CHECKLIST, SAMPLE NOTES

TREADS & RISERS
STRINGER (TYPE & SIZE)
BLOCKING
FURRING/SOFFIT
3/4" PLYWD. TREADS & RISERS
2 X 12 TREAD
1 X 8 RISER
1 X 2 NOSE
RESILIENT SQUARE SAFETY NOSE
3/4" X 2 YOUR SAFETY NOSE
3/4" Y 2 STRINGERS 1 @ CENTERLINE & 2 @ EA. SIDE
5 TRINGERS FROM 2 X 12'S @ 16" O.C.
OAK BASE, OAK TREAD

WOOD STEPS (LANDSCAPING)

WOOD STEPS (LANDSCAPING)



DETAIL DATA CHECKLIST

WOOD STEPS

- Treated lumber or redwood^I
 Nail wood treads and risers together with galvanized nails
 Anchor heavy timbers or railroad ties into compacted grade with steel rods
- 3/4" to 1" round, 24" to 36" long steel rods set 12" from each end No single riser allowed in any run of walkway or ramp (use 3 minimum risers in any group)

- WOOD CURBS
 __Use redwood, cedar, cypress or treated wood

- Sizes:
 2x6, 2x8, 6x6, 6x8, and railroad ties
 Hold wood curbs in place with wood stakes, rebar or bolts
 Stakes may be 1x2, 2x2, 2x3, or 2x4, 16" to 24" long, 24" to 48" o.c., and/or at ends of timbers
 Use 2 20d ga. nails per stake
 For rebar, use a #4 bar, 18" long at each end of timber
 Form a pocket around the bar and fill it with concrete

NOTATION CHECKLIST, SAMPLE NOTES

FINISH GRADE/PAVING/PLANTING BED WOOD CURB/PAVING EDGE PAVING BASE SUBGRADE STAKES (MATERIAL, SIZE & SPACING)