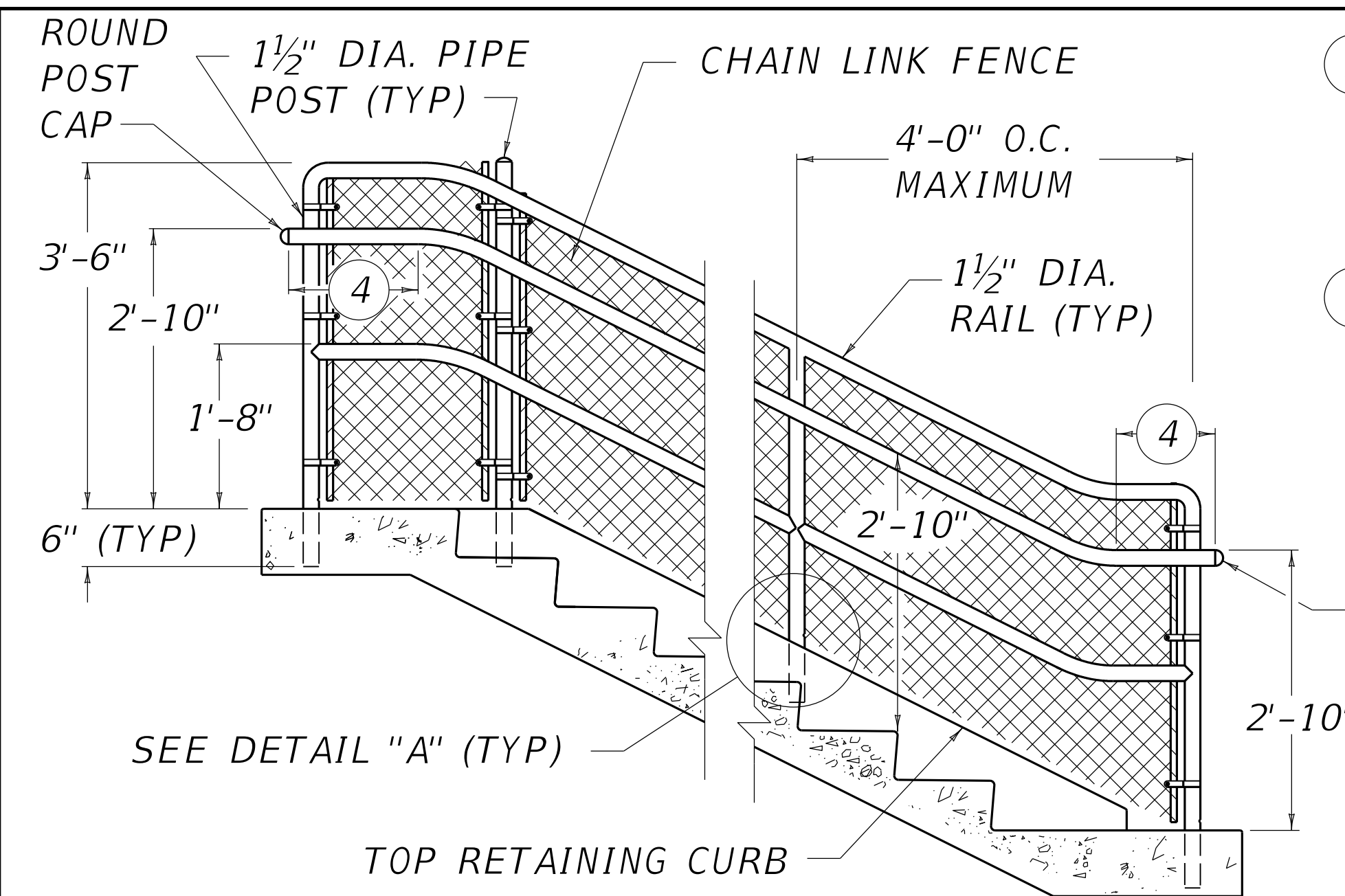
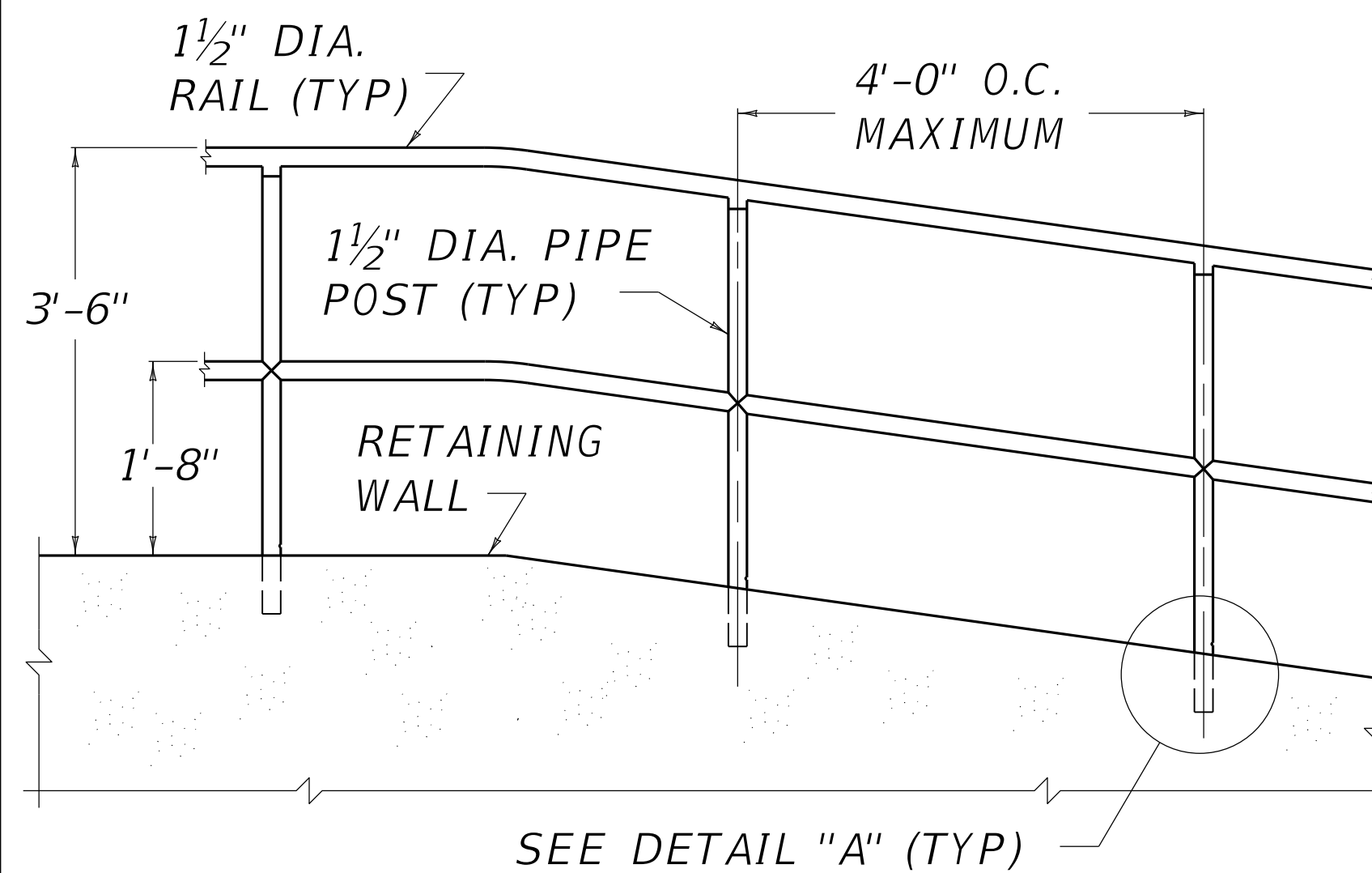
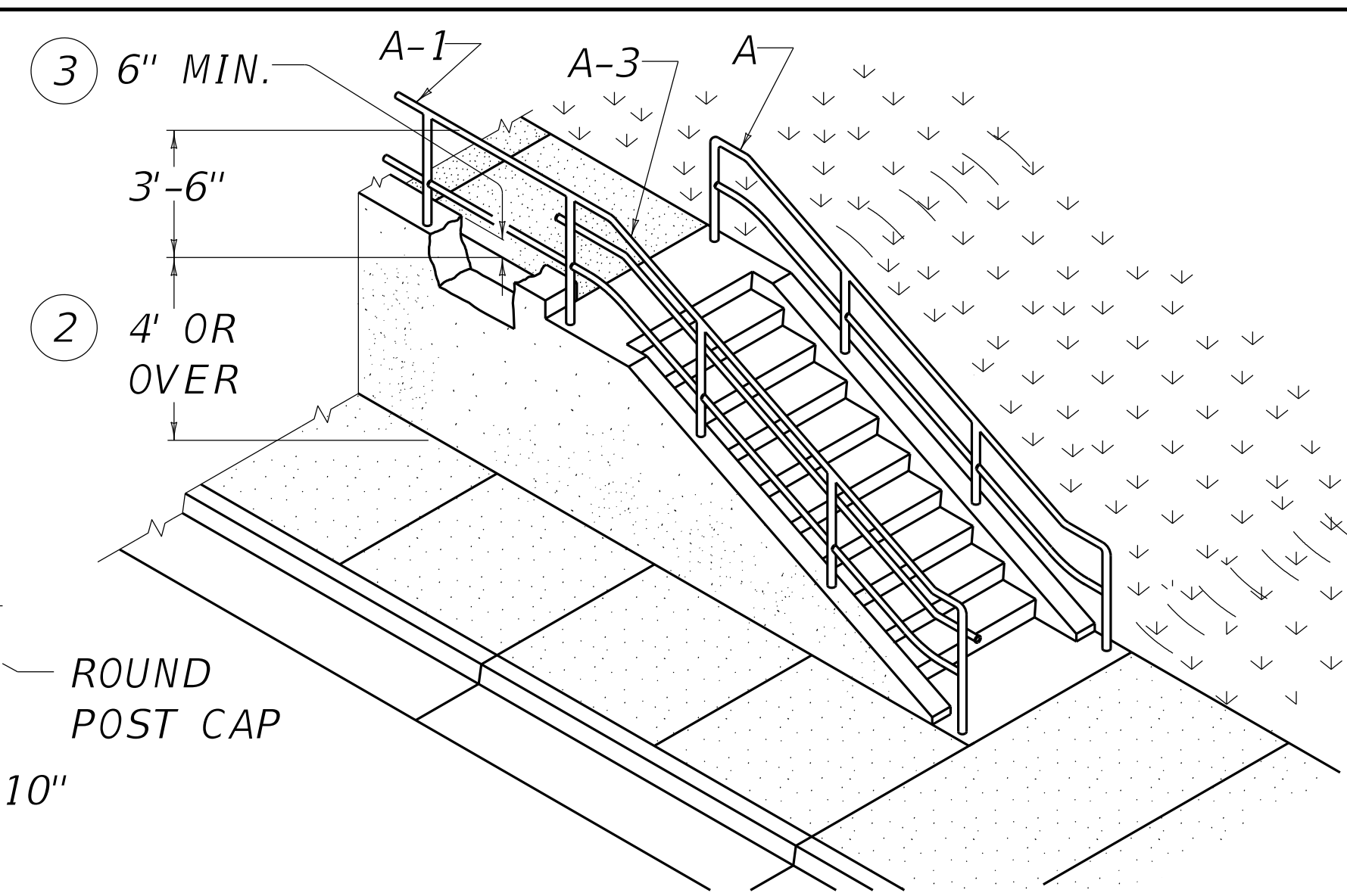
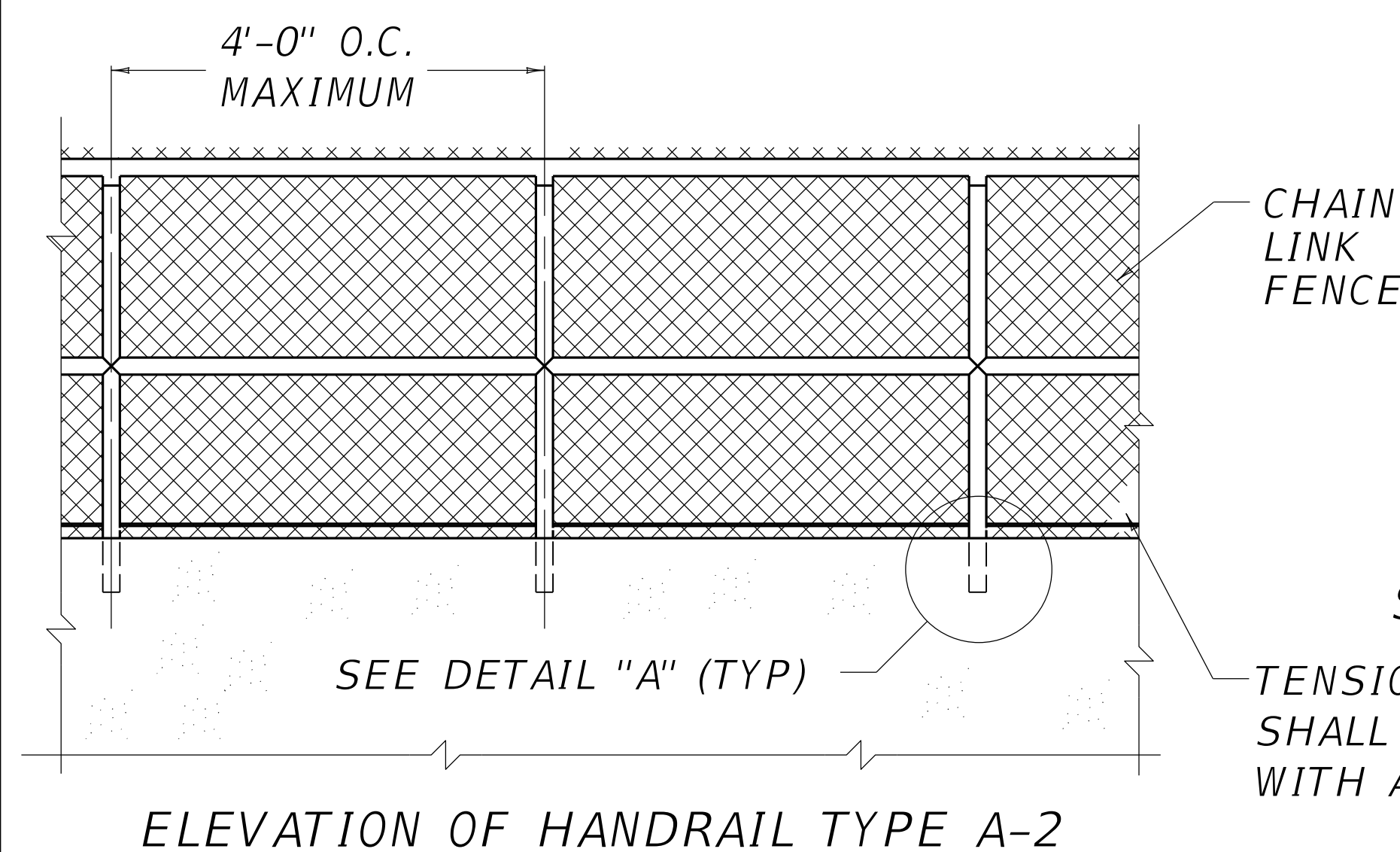




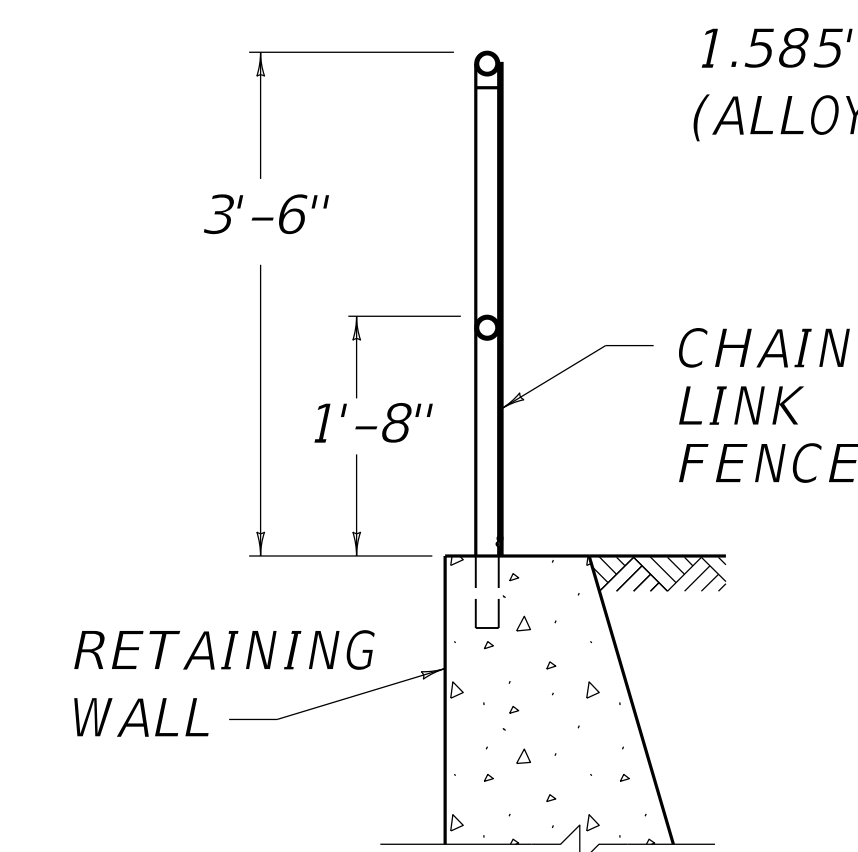
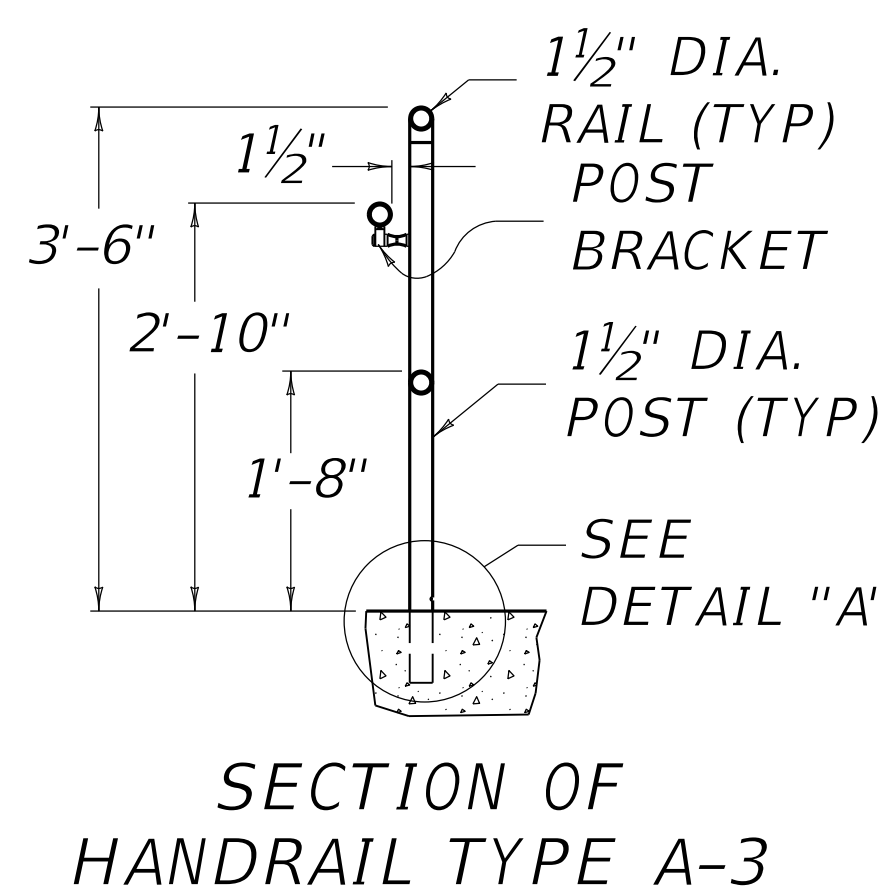
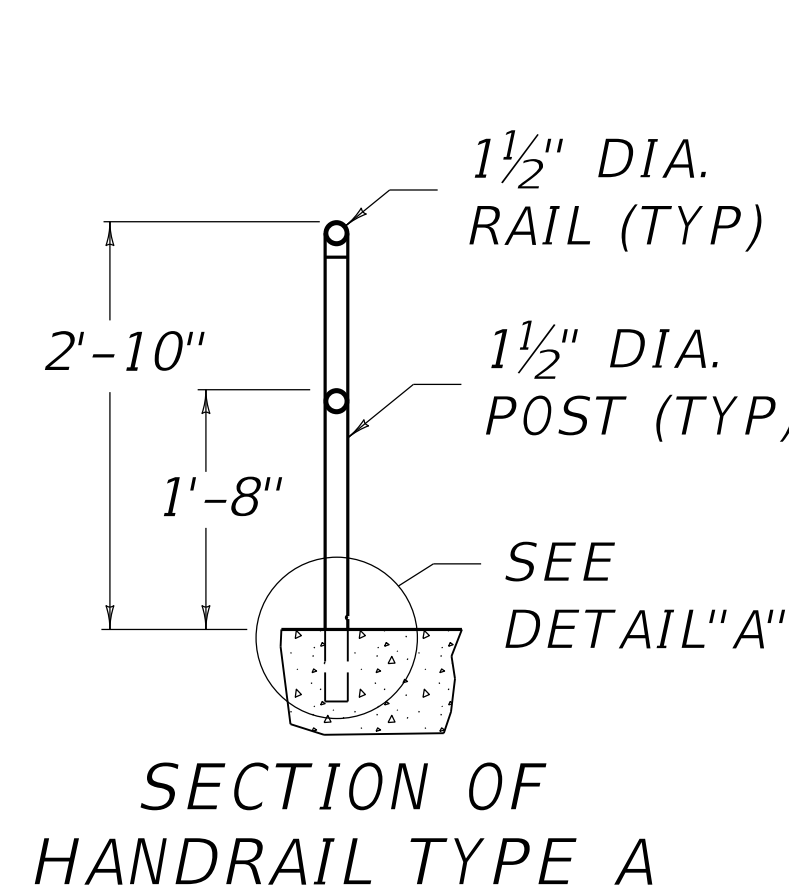
ELEVATION OF HANDRAIL TYPE A-4



ELEVATION OF HANDRAIL TYPE A-1

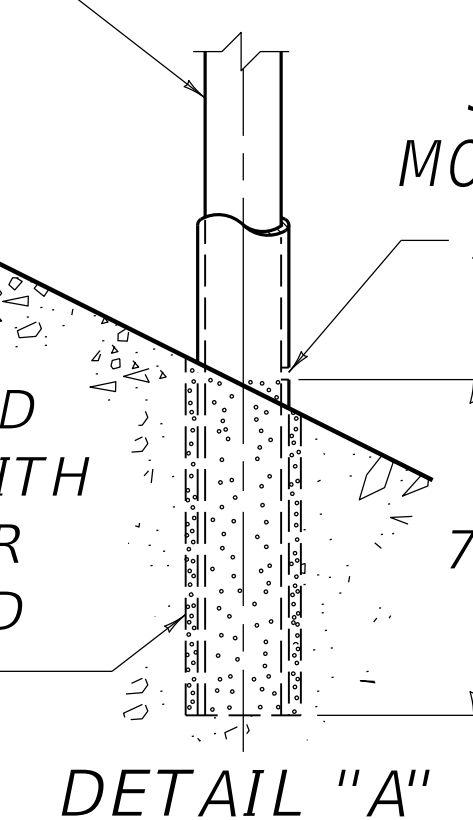


ISOMETRIC OF HANDRAIL TYPE A, A-1 AND A-2

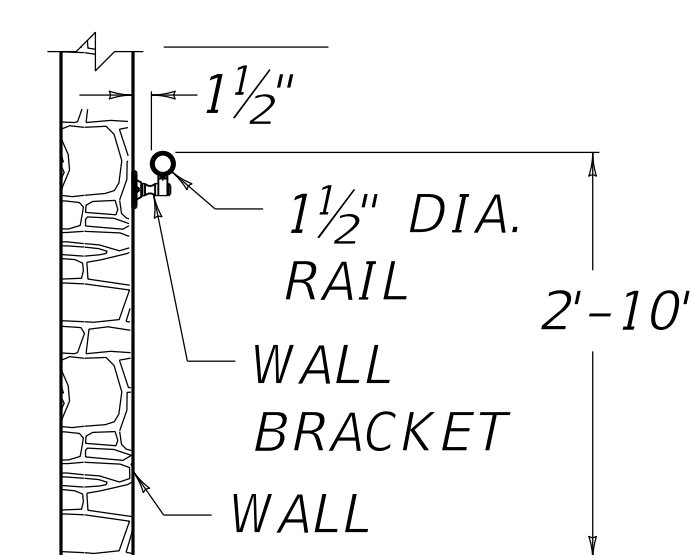


1.585" DIA. x 2'-0" SOLID ALUMINUM (ALLOY 6061-T6) REINF. BAR

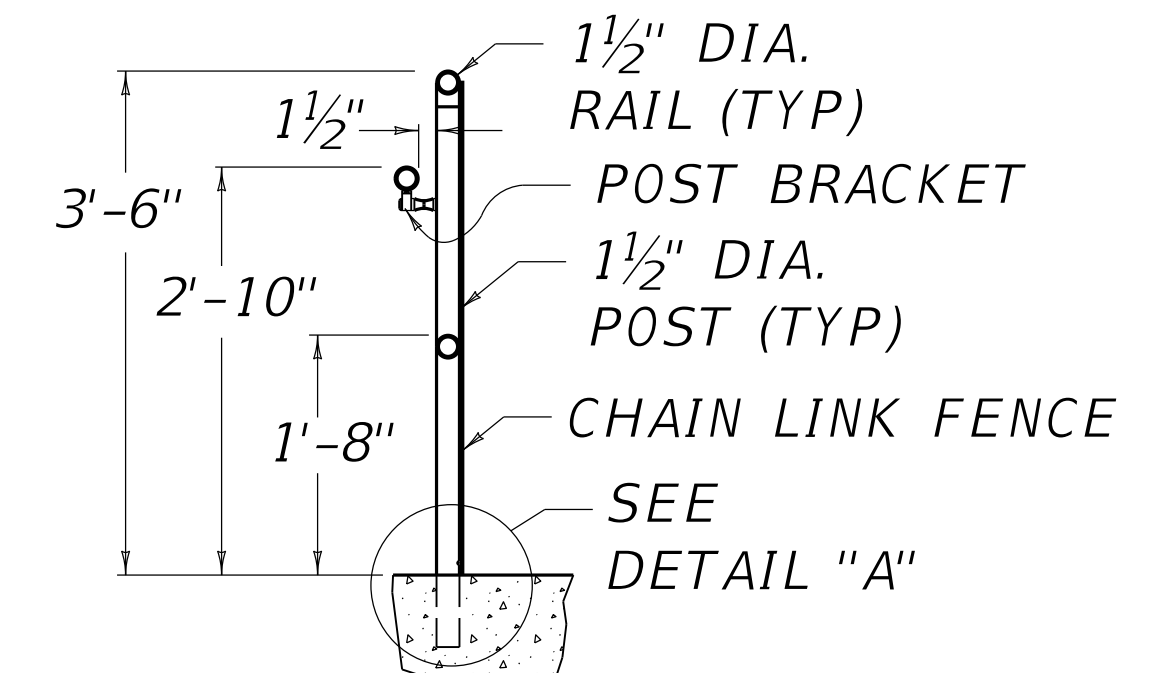
TOP RETAINING CURB/WALL
FILL AROUND PIPE AND FILL PIPE TO HOLE WITH NON-SHRINK GROUT OR A MATERIAL APPROVED BY THE ENGINEER.



DETAIL "A"



SECT. FOR WALL MOUNTED HANDRAIL



SECT. OF HANDRAIL TYPE A-4

★

TYPE	HEIGHT REQ'D.	FENCE REQ'D.	MAX. POST SPACING	NO. OF RAILS
A	2'-10"	NO	4'-0"	2
A-1	3'-6"	NO	4'-0"	2
A-2	3'-6"	YES	4'-0"	2
A-3	3'-6"	NO	4'-0"	3
A-4	3'-6"	YES	4'-0"	3

~ NOTES ~
BID ITEM AND UNIT TO BID
HANDRAIL TYPE ★ LF

- HANDRAIL SHALL BE REQUIRED WITH THREE OR MORE STEPS. HANDRAIL IS OPTIONAL WITH LESS THAN THREE STEPS.
- HANDRAIL USED AS A TOP HANDRAIL ON STEPS AND HANDRAIL USED ON A RETAINING WALL SHALL BE REQUIRED WHEN THE ADJACENT FLOOR, GROUND LEVEL, ROAD, WALK, ETC. IS 4' OR MORE BELOW THE TOP OF THE RETAINING WALL.
- THE TOP OF THE RETAINING WALL OR CURB SHALL BE A MIN. OF 6" ABOVE THE ADJOINING SIDEWALK.
- A DISTANCE OF 1'-0" MIN. SHALL BE PARALLEL TO THE STEP RUNNER.
- HANDRAIL WITH INTERNAL CONNECTIONS: HANDRAIL SHALL BE CONSTRUCTED OF 1½" SCHEDULE 40 ALUMINUM PIPE IN ACCORDANCE WITH ASTM B221 ALLOY 6063-T52 FOR RAIL AND ASTM B210 ALLOY 6063-T832 FOR POSTS. ~OR~ HANDRAIL WITH WELDED CONNECTIONS: HANDRAIL SHALL BE CONSTRUCTED OF 1½" SCHEDULE 40 ALUMINUM PIPE IN ACCORDANCE WITH ASTM B221 OR B210 ALLOY 6061-T6.
- ANCHOR POST IN FORMED HOLES (SEE DETAIL "A"). FOR INSTALLATION PROCEDURES OF THE CHAIN LINK FENCE AS APPLICABLE SEE CUR. STD. DWG. RFC-001
- ALL INTERNAL CONNECTIONS SHALL BE MADE WITH AN EPOXY ADHESIVE (RECOMMENDED BY THE MANUFACTURE), STAINLESS STEEL MACHINE SCREWS WITH LOCK WASHERS, AND THREADED TUBULAR RIVETS IN ORDER TO PROVIDE A SMOOTH INSTALLATION. EXPANSION JOINTS SHALL BE PROVIDED APPROX. 20'-0" O.C.
- SIDEWALK SLABS SHALL BE THICKENED TO 8"x8"x8" AT POST LOCATIONS. USE WITH CUR. STD. DWG. RFC-001

REVISION DATE: 12/01/2015
REVISION NUMBER: 0

SUBMITTED 12-01-2015 DATE
DIVISION DIRECTOR
APPROVED 12-01-2015 DATE
STATE HIGHWAY ENGINEER

GENERAL