

**NOTES:**

1. PRE-DRILL 3/8" HOLE THROUGH FACING FOR 5/16" X 2" CADMIUM PLATED HEX-HEAD BOLT, HEX-NYLOCK ELASTIC OPEN END CAP NUT AND FLAT WASHER. POSTS ARE PRE-DRILLED.
2. FACING IS 6061-T6 .081" SHEET ALUMINUM WITH NO. 2270 SILVER WIDE ANGLE FLAT-TOP "SCOTCHLITE" BACKGROUND ON ONE SIDE ONLY. LETTERING IS SILK SCREENED P.R.A. 3" BLACK LETTERS. "DANGER TO BE BOLD WITH A 1/2" THICK BLACK UNDERLINE.
3. 9'-0" GALVANIZED STEEL SIGN POST (MISSOURI ROLLING MILL CORP. "SENTRY", BUFFALO STEEL CORP. "QUICK-SET", OR EQUAL).

**LOCATION:**

1. WHERE POSSIBLE, SIGN IS TO BE PLACED 50 FEET IN ADVANCE OF AND ON THE SAME SIDE OF THE TRACK AS THE STUMBLING HAZARD. WHERE HAZARDS EXIST ON BOTH SIDES OF THE TRACK, SIGNS ARE TO BE PLACED ON BOTH SIDES OF THE TRACK IF POSSIBLE. IN ANY CASE, THE CLOSEST EDGE OF THE SIGN SHALL BE NO NEARER THAN 10'-0" FROM THE GAGE THE NEAREST RAIL.



**UNION PACIFIC RAILROAD**

Office of Chief Engineer Design

**INDUSTRY STANDARDS**

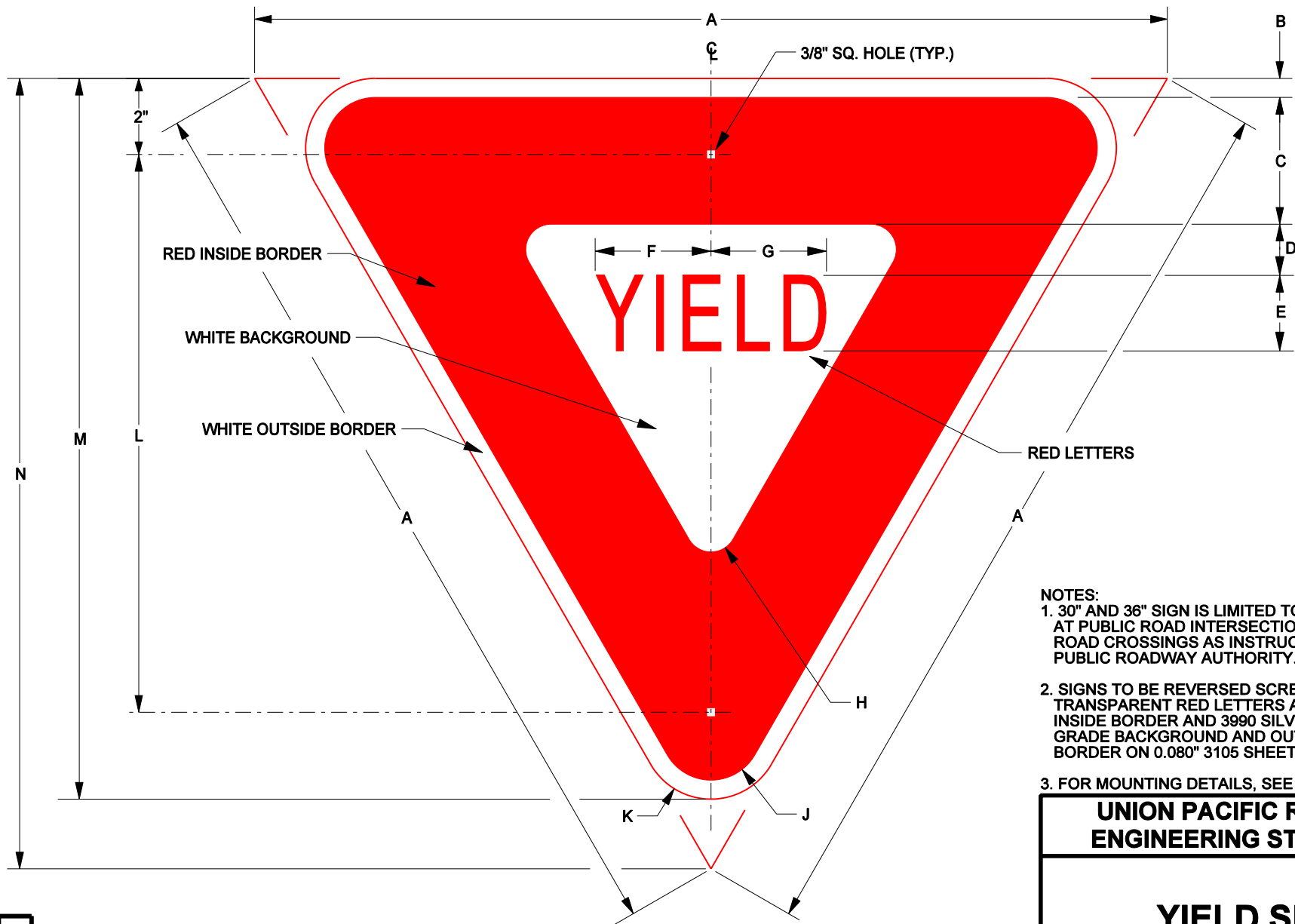
**STUMBLING HAZARD SIGN**

ADOPTED: MARCH 15, 1979  
 REVISED: AUG. 4, 2003  
 FILE NO.: EXHIBIT N-1

EXHIBIT

"N-1"

EXHIBIT  
 "N-1"



**NOTES:**

1. 30" AND 36" SIGN IS LIMITED TO PLACEMENT AT PUBLIC ROAD INTERSECTIONS AND PUBLIC ROAD CROSSINGS AS INSTRUCTED BY THE PUBLIC ROADWAY AUTHORITY.
2. SIGNS TO BE REVERSED SCREENED NO. 882 TRANSPARENT RED LETTERS AND THICK INSIDE BORDER AND 3990 SILVER DIAMOND GRADE BACKGROUND AND OUTSIDE BORDER ON 0.080" 3105 SHEET ALUMINUM.
3. FOR MOUNTING DETAILS, SEE STD DWG 0599

**UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS**

**YIELD SIGN**

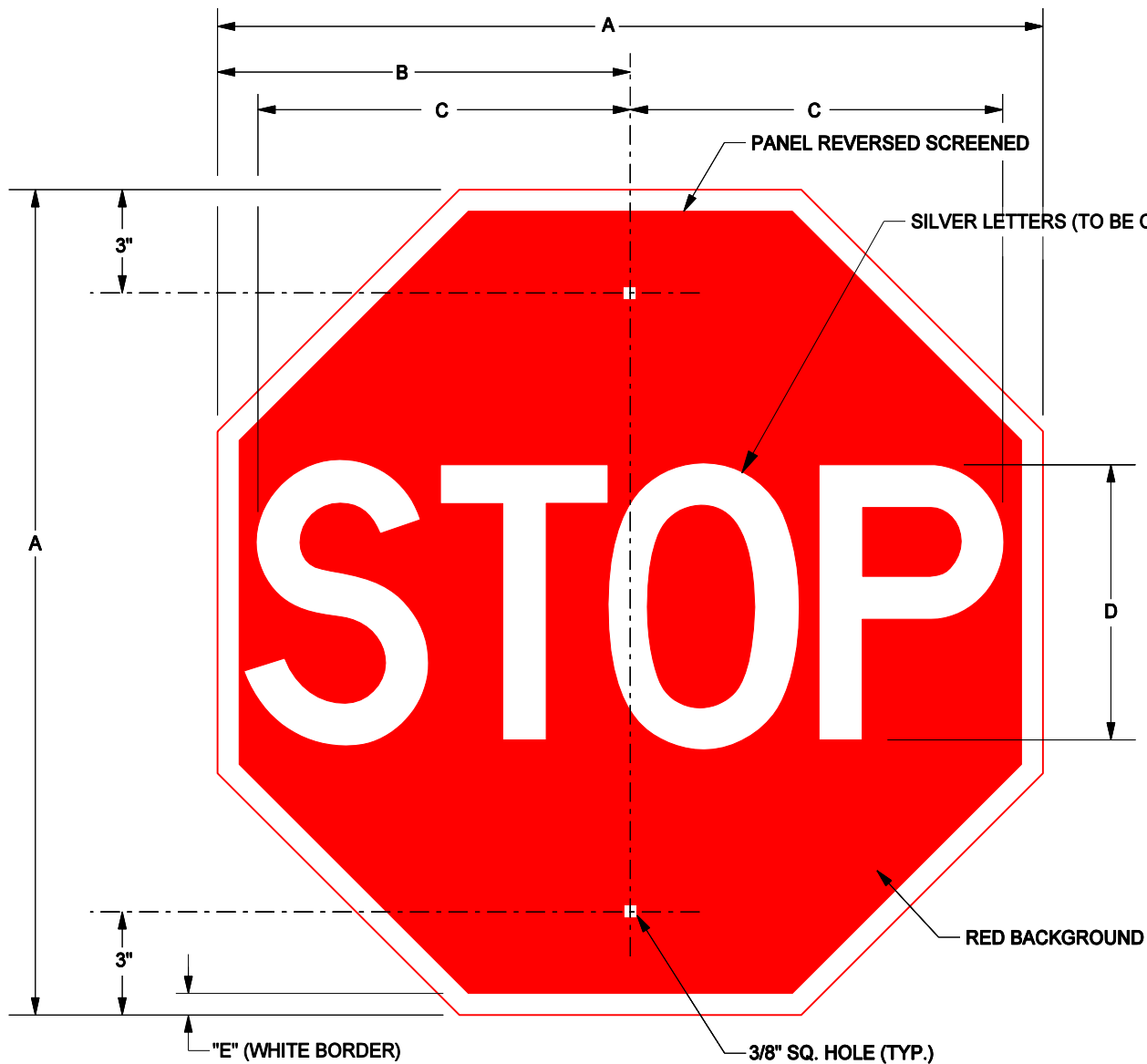
0548  
STD DWG

ITEM NO.	A	B	C	D	E	F	G	H	J	K	L	M	N
393-6768	36"	3/4"	5"	2"	3"	4 11/16"	4 3/8"	1 1/8"	2"	2 3/4"	24"	28 7/16"	31 3/16"
NON-STOCK	30"	5/8"	4"	1 3/4"	2 1/2"	3 15/16"	3 5/8"	7/8"	1 1/4"	2 1/8"	18"	23 11/16"	26"



ADOPTED: MARCH 20, 2003  
REVISED:  
FILE NO.: 0548

STD DWG  
**0548**



**NOTES:**

- 24" SIGN TO BE LOCATED 200 FEET IN ADVANCE OF RAILROAD CROSSING OR DRAW SPAN THAT IT IS INTENDED TO PROTECT. AT RAILROAD JUNCTIONS, SIGN TO BE LOCATED A MINIMUM OF 200 FEET FROM THE POINT OF SWITCH BUT NOT WITHIN THE THIRTEEN FEET CLEARANCE POINT. SIGN TO BE PLACED ON ENGINEER'S SIDE OF TRACK WITH NEAREST POINT OF SIGN TO BE A MINIMUM OF TEN FEET FROM THE GAGE SIDE OF THE NEAREST RAIL.
- SIGNS NOT TO BE USED WHERE CROSSINGS, JUNCTIONS, OR DRAW SPANS ARE PROTECTED BY SIGNALS OR GATES.
- 30" AND 36" SIGNIS LIMITED TO PLACEMENT AT PUBLIC ROAD INTERSECTIONS AND PUBLIC ROAD CROSSINGS AS INSTRUCTED BY THE PUBLIC ROADWAY AUTHORITY.
- 24" SIGNS TO BE REVERSED SCREENED NO. 882 TRANSPARENT RED BACKGROUND AND 3870 SILVER 3M HIGH INTENSITY GRADE LETTERS ON 0.080" 3105 SHEET ALUMINUM.
- 30" AND 36" SIGNS TO BE REVERSED SCREENED NO. 882 TRANSPARENT RED BACKGROUND AND 3990 SILVER 3M DIAMOND GRADE OR EQUIVALENT ON 0.080" 3105 SHEET ALUMINUM.
- FOR LETTERING, SEE STD DWG 0501  
FOR MOUNTING DETAILS, SEE STD DWG 0599

**UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS**

**STOP SIGN**

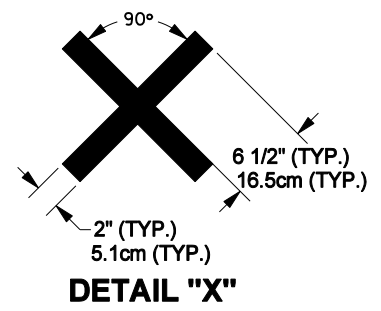
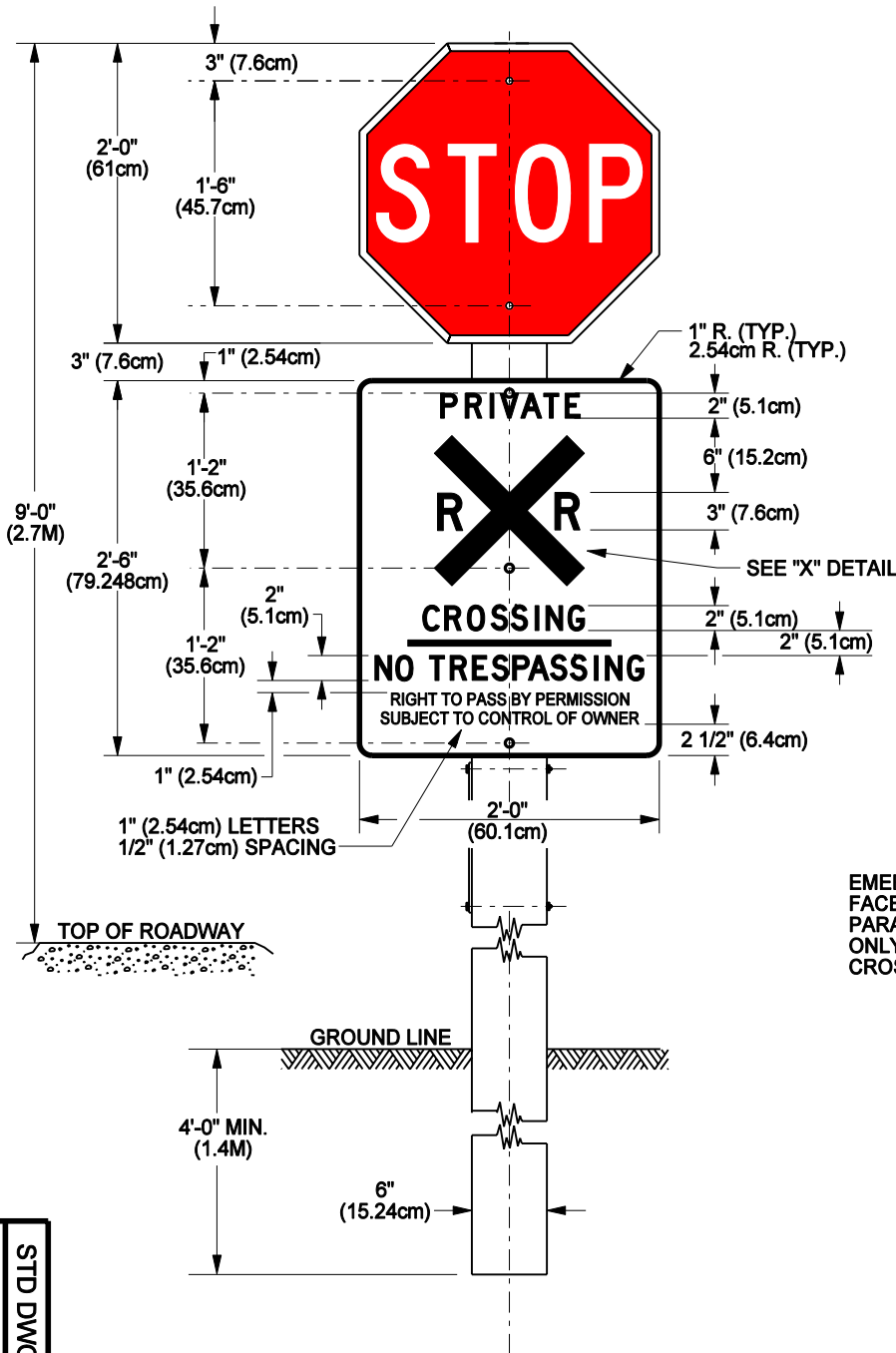
DESCRIPTION	A	B	C	D	E
ITEM NO. 393-5896	24"	12"	10"	8"	5/8"
ITEM NO. 393-6100	30"	15"	12 1/2"	10"	3/4"
ITEM NO. 393-6105	36"	18"	15"	12"	7/8"



ADOPTED: OCT. 1, 1904  
REVISED: MARCH 18, 2003  
FILE NO.: 0547C

STD DWG  
**0547C**

STD DWG  
**0547C**



**NOTES:**  
 PRIVATE CROSSING SIGN TO BE 3290 SILVER 3M HIGH INTENSITY GRADE BACKGROUND ON .080" SHEET ALUMINUM.

AT ALL PRIVATE ROADWAY GRADE CROSSINGS WHERE THE GENERAL PUBLIC HAS ACCESS AND ARE NOT OTHERWISE EQUIPPED WITH TRAIN ACTIVATED WARNING DEVICES, ONE SIGN IS TO BE PLACED TO THE RIGHT OF EACH APPROACH. THE SIGNS ARE NOT INTENDED FOR USE AT IN-PLANT INDUSTRIAL CROSSINGS, CROSSINGS BETWEEN FARM FIELDS OR SIMILAR RESTRICTED LOCATIONS, EXCEPT IN STATES WHERE REQUIRED BY LAW.

SIGN LOCATION SHOULD BE 15' (4.6M) FROM THE CENTERLINE OF THE NEAREST TRACK WITH THE CENTER OF POST NO LESS THAN 8' (2.4M) FROM THE EDGE OF THE TRAVELED ROADWAY. POSITION THE SIGN TO PROVIDE THE BEST VIEW FROM THE ROADWAY APPROACH.

FOR STOP SIGN, SEE STD DWG 0547  
 FOR LETTERING, SEE STD DWG 0501  
 FOR MOUNTING, SEE STD DWG 0599  
 FOR EMERGENCY SIGN, SEE STD DWG 0530

A.A.R./D.O.T. AS WELL AS STATE CROSSING I.D. NO. MARKERS SHOULD BE SHOWN ON THE ROADWAY SIDE OF THE POST

EMERGENCY SIGN TO FACE NORTH OR EAST, PARALLEL TO THE ROAD. ONLY ONE SIGN PER CROSSING.



**UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS**

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**PRIVATE ROADWAY  
GRADE CROSSING SIGN**

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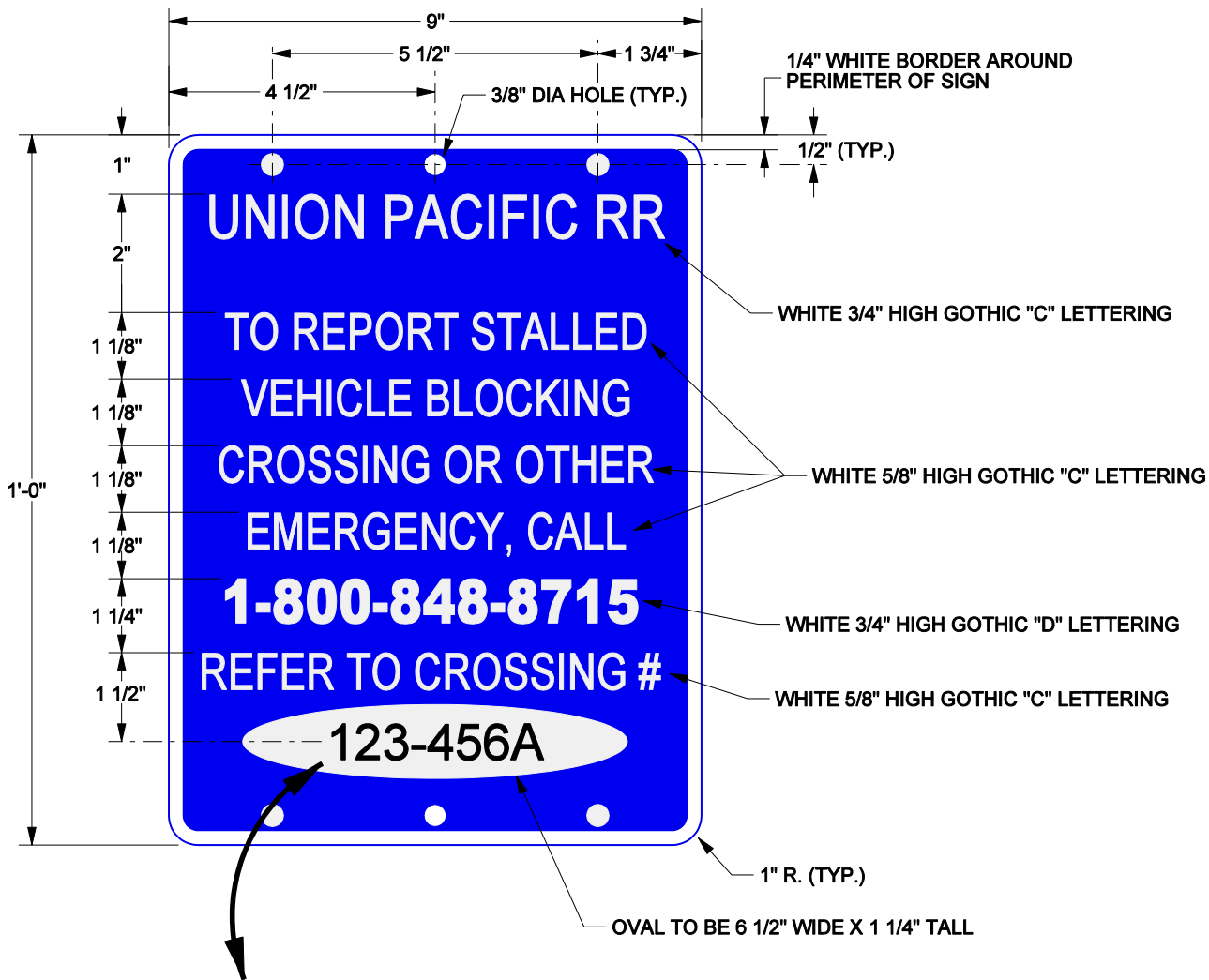
**STD DWG  
0531C**

ITEM	ITEM NO.
STOP SIGN	393-5896
PRIVATE CROSSING SIGN	393-3510
EMERGENCY SIGN	393-1355
POST	505-1621



ADOPTED: OCT. 31, 1974  
 REVISED: FEB. 22, 2001  
 FILE NO.: 0531C

**0531C**  
STD DWG



1/4" WHITE BORDER AROUND PERIMETER OF SIGN

1/2" (TYP.)

WHITE 3/4" HIGH GOTHIC "C" LETTERING

WHITE 5/8" HIGH GOTHIC "C" LETTERING

WHITE 3/4" HIGH GOTHIC "D" LETTERING

WHITE 5/8" HIGH GOTHIC "C" LETTERING

1" R. (TYP.)

OVAL TO BE 6 1/2" WIDE X 1 1/4" TALL

NOTES:  
SIGN IS TO BE REVERSED SCREENED NUMBER 883 TRANSPARENT BLUE BACKGROUND AND SILVER NUMBER 3290 3M ENGINEER GRADE LETTERING (AND OVAL SHAPE) ON 0.080" THICK ALUMINUM.

D.O.T. LOCATION LABELS TO BE 3/4" BLACK GOTHIC "C" LETTERING ON 3M SCOTCAL GRAPHIC MARKING FILM SERIES 3650.

D.O.T. LOCATION LABELS TO BE ORDERED NON-STOCK.

REFERENCE STD DWGS 0529 AND 0531 FOR WHERE TO MOUNT.

REFERENCE STD DWG 0599 FOR MOUNTING HARDWARE.

123-456A

CROSSING D.O.T. LOCATION LABEL TO BE APPLIED IN FIELD AT TIME OF INSTALLATION. PEEL OFF LABEL AND STICK NUMBER IN CENTER OF OVAL SHAPE.

<b>UNION PACIFIC RAILROAD ENGINEERING STANDARDS</b>					
<b>EMERGENCY PHONE NUMBER AT ROAD CROSSING SIGN</b>					
	ADOPTED: FEB. 20, 2001 REVISED: JAN. 16, 2002 FILE NO.: 0530A				
<table border="1"> <tr> <td>ITEM NO.</td> </tr> <tr> <td><b>393-1355</b></td> </tr> </table>	ITEM NO.	<b>393-1355</b>	<table border="1"> <tr> <td>STD DWG</td> </tr> <tr> <td><b>0530A</b></td> </tr> </table>	STD DWG	<b>0530A</b>
ITEM NO.					
<b>393-1355</b>					
STD DWG					
<b>0530A</b>					

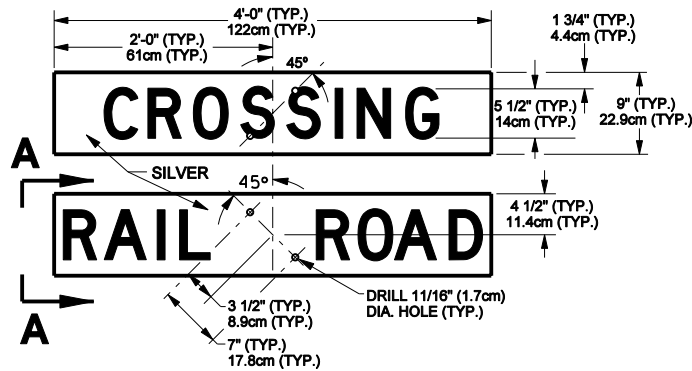
0530A  
 STD DWG

ITEM NO.  
**393-1355**

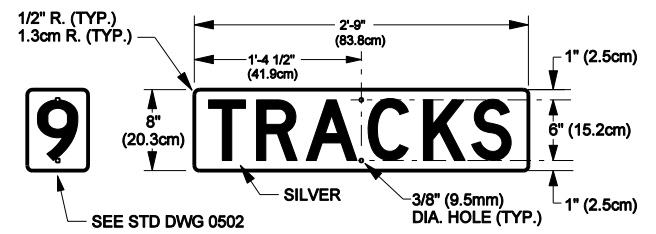


ADOPTED: FEB. 20, 2001  
REVISED: JAN. 16, 2002  
FILE NO.: 0530A

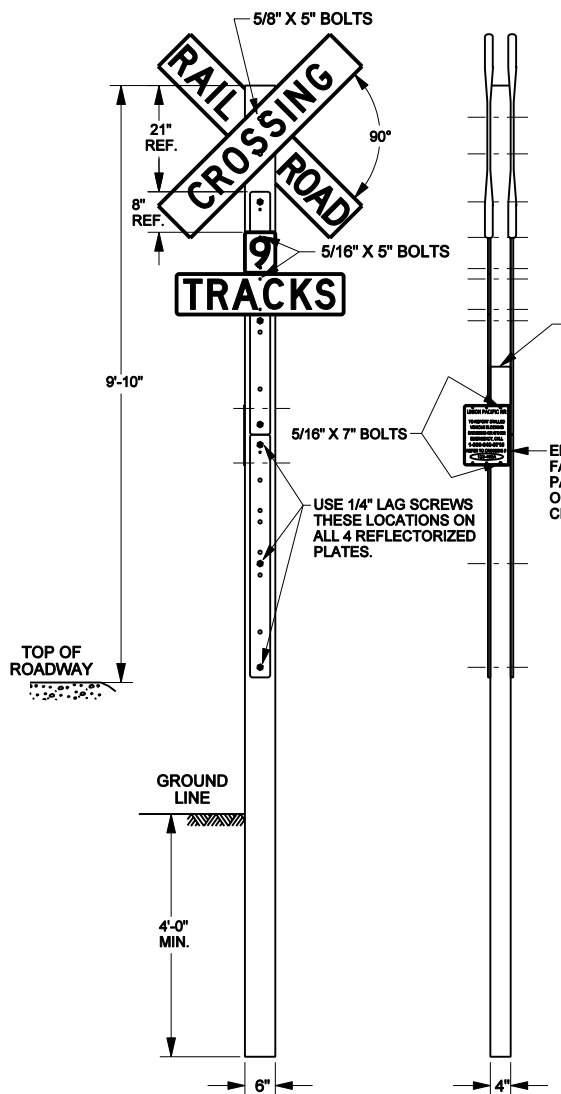
STD DWG  
**0530A**



**CROSS BUCK DETAIL**



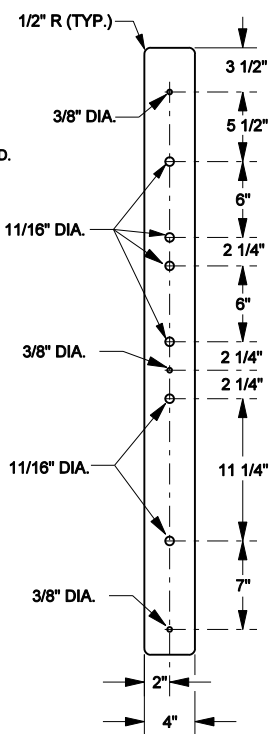
**MULTIPLE TRACK SIGN DETAIL**



A.A.R./D.O.T. AS WELL AS STATE CROSSING I.D. MARKERS SHOULD BE SHOWN ON THE HIGHWAY SIDE OF THE POST

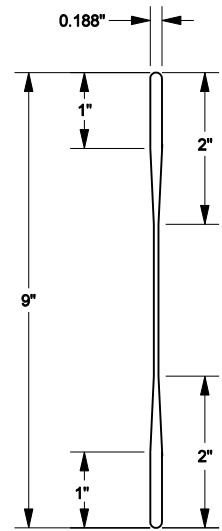
EMERGENCY SIGN TO FACE NORTH OR EAST, PARALLEL TO THE ROAD. ONLY ONE SIGN PER CROSSING.

USE 1/4" LAG SCREWS THESE LOCATIONS ON ALL 4 REFLECTORIZED PLATES.



**REFLECTORIZED FACE PLATE**

\*REFLECTORIZED FACE PLATE, ITEM NO. 393-1195, COMES IN 2-48" STRIPS. 96" OF STRIPPING IS REQUIRED ON BOTH SIDES OF POST.



**VIEW A-A**

**NOTES:**

- CROSS BUCKS TO BE ALUMINUM ALLOY 6063-T8 PER DETAIL (REF. DYE NO. AY-8655). TWO DOUBLE FACED CROSS BUCKS ARE REQUIRED FOR EACH SIGN. BACKGROUND SURFACE TO BE 3M NO. 3990 SILVER DIAMOND GRADE OR EQUIVALENT REFLECTIVE SHEETING. LETTERS TO BE BLACK GOTHIC SERIES "C".
- "TRACK" SIGN TO BE 0.080" THICK SHEET ALUMINUM 3105. ONE SINGLE FACED SIGN REQUIRED FOR EACH CROSSING WHERE TWO OR MORE TRACKS ARE TO BE CROSSED. BACKGROUND SURFACE TO BE 3M NO. 3990 SILVER DIAMOND GRADE OR EQUIVALENT REFLECTIVE SHEETING.
- ONE SIGN TO BE PLACED ON THE RIGHT HAND APPROACH TO EACH CROSSING WHERE PHYSICALLY FEASIBLE AND LOCATED TO ADMIT THE BEST VIEW FROM THE ROADWAY. SET CENTER OF POST 15' (4.6M) FROM THE CENTER LINE OF THE NEAREST TRACK, WITH BLADES AT RIGHT ANGLES TO THE ROADWAY, AND LOCATED NOT LESS THAN 8' (2.4M) FROM EDGE OF ROADWAY SHOULDER. WHERE THERE IS NO ROADWAY SHOULDER, CENTER OF POST TO BE LOCATED NOT LESS THAN 14' (4.3M) FROM EDGE OF TRAVELED WAY. IN URBAN AREAS WHERE A CURB IS PRESENT, CENTER OF POST TO BE LOCATED NOT LESS THAN 4' (1.2M) FROM FACE OF THE CURB. ON ONE WAY STREETS, SIGNS TO BE LOCATED ON BOTH SIDES OF STREET.
- MORE THAN TWO SIGNS MAY BE NECESSARY WHERE UNUSUAL CONDITIONS EXIST OR WHERE THE DISTANCE BETWEEN TRACKS EXCEEDS 100' MEASURED ALONG THE ROADWAY.
- FOR LETTERING, SEE STD DWG 0501  
FOR 6" NUMERALS, SEE STD DWG 0502  
FOR EMERGENCY SIGN, SEE STD DWG 0530  
FOR POST AND HARDWARE, SEE STD DWG 0599

**UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS**

**PUBLIC HIGHWAY  
CROSSING SIGN**

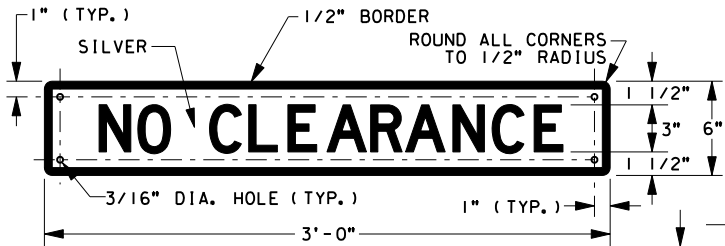


ADOPTED: OCT. 1, 1904  
REVISED: JULY 17, 2003  
FILE NO.: 0529F

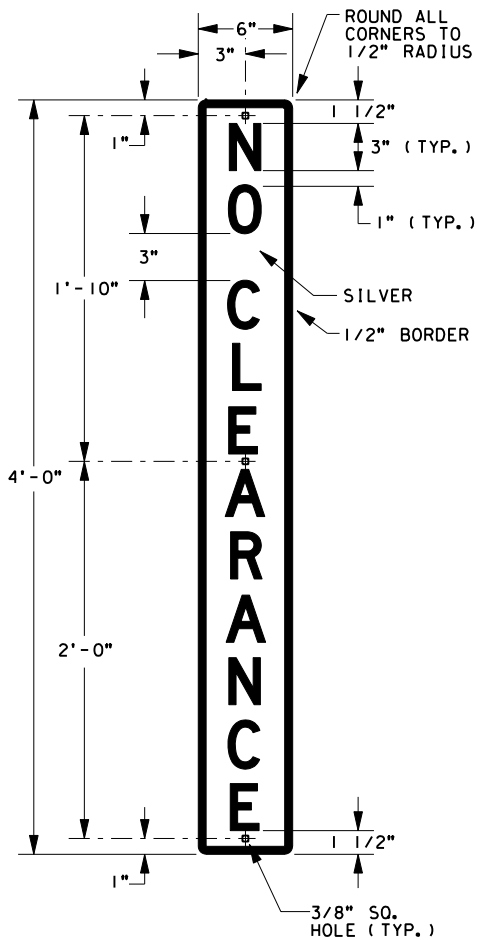
**STD DWG  
0529F**

ITEM	ITEM NO.
CROSS BUCK	393-1194
"TRACKS" SIGN	393-6387
POST 4" X 6" X 16"	505-1630
EMERGENCY SIGN	393-1355
*REFLECTORIZED FACE PLATE	393-1195

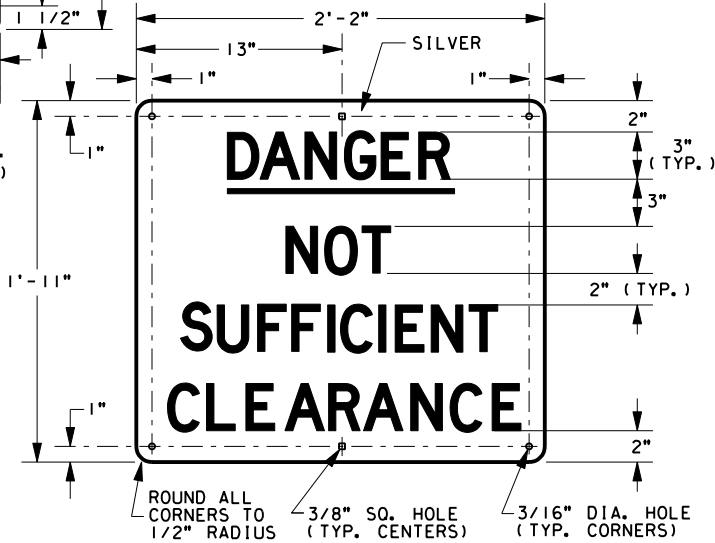
**STD DWG  
0529F**



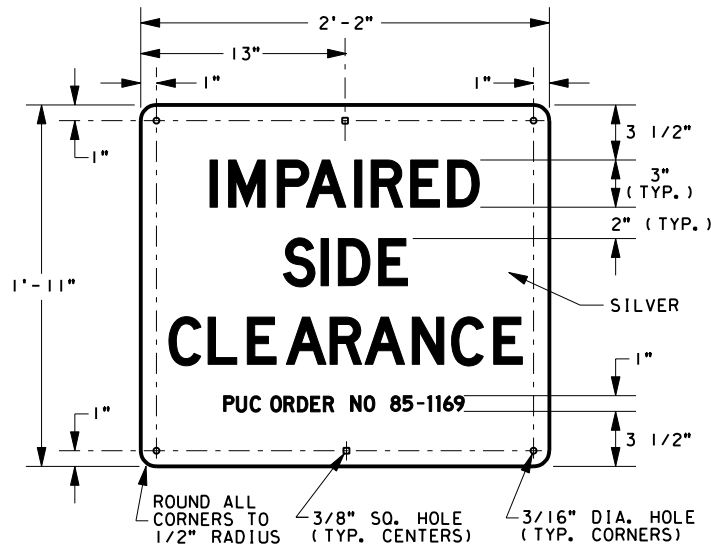
**STATE OF IOWA**  
ITEM NO. 393-8008 (FOR MOUNTING ON ENCROACHMENTS)



**STATE OF IOWA**  
ITEM NO. 393-8012



**U. P. STANDARD**  
ITEM NO. 393-1264



**STATE OF OREGON**  
ITEM NO. 393-1759

NOTES:  
SIGNS TO BE 3290 SILVER 3M ENGINEER GRADE BACKGROUND ON 0.080" SHEET ALUMINUM.

UNION PACIFIC STANDARD CLEARANCE WARNING SIGNS TO BE USED AT ALL LOCATIONS HAVING REDUCED VERTICAL OR HORIZONTAL CLEARANCES WHERE REQUIRED BY THE RAILROAD COMPANY.

WHERE PRACTICABLE, ALL SIGNS SHOULD BE FASTENED TO BOTH SIDES OF THE ENCROACHING STRUCTURE AND IN SUCH A MANNER AS NOT TO DECREASE EXISTING CLEARANCE. IF SUCH AN INSTALLATION WOULD NOT BE CLEARLY VISIBLE TO TRAINMEN OR IMPRACTICAL TO MOUNT. SIGNS SHOULD BE INSTALLED USING THE SIGN POST SHOWN ON STD DWG 0599. POST MOUNTED SIGNS TO BE LOCATED 50 FEET IN ADVANCE OF THE ENCROACHING STRUCTURE WITH NEAREST POINT OF SIGN TO BE A MINIMUM OF TEN FEET FROM THE GAGE SIDE OF NEAREST RAIL. IF POINT OF SWITCH FOR THE TRACK ADJACENT TO THE IMPAIRED CLEARANCE IS LESS THAN 50 FEET FROM THE STRUCTURE, LOCATE SIGN OPPOSITE POINT OF SWITCH.

REQUISITIONS FOR STATE OF OREGON IMPAIRED CLEARANCE SIGNS SHOULD SPECIFY THE SPECIFIC P. U. C. ORDER NO. ASSIGNED TO EACH IMPAIRED CLEARANCE, AND IF SIGNS ARE FOR SIDE, OVERHEAD OR SIDE AND OVERHEAD CLEARANCE.

OREGON STATE REQUIRES SIGNS ON STRUCTURES TO HAVE THE BOTTOM NO LESS THAN 4'-6" OR NO MORE THAN 8'-0" ABOVE TOP THE RAIL TO WHICH THE SIGN APPLIES. FREE STANDING SIGNS TO BE NO LESS THAN 6'-6" ABOVE THE GROUND.

SPECIAL IOWA AND OREGON CLEARANCE WARNING SIGNS TO BE USED AT ALL LOCATIONS HAVING REDUCED VERTICAL OR HORIZONTAL CLEARANCES WHERE REQUIRED BY STATE REGULATIONS OR DEEMED DESIRABLE BY THE RAILROAD COMPANY.

IMPAIRED CLEARANCE MAY ALSO READ "IMPAIRED OVERHEAD CLEARANCE" OR "IMPAIRED SIDE AND OVERHEAD CLEARANCE". AS MAY BE REQUIRED, SIGNS READING "IMPAIRED SIDE AND OVERHEAD CLEARANCE" WILL BE 22" HIGH TO ACCOMMODATE THE ADDED LINE, USING THE SAME SIZE LETTERING AND LINE SPACING FOR P. U. C. ORDER NO..

USE CORNER HOLES FOR MOUNTING TO BUILDINGS OR STRUCTURES.

FOR LETTERING, SEE STD DWG 0501  
FOR POST MOUNTING, SEE STD DWG 0599

REF. PREVIOUS U. P. STD PAGE 0513-A

**UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS**

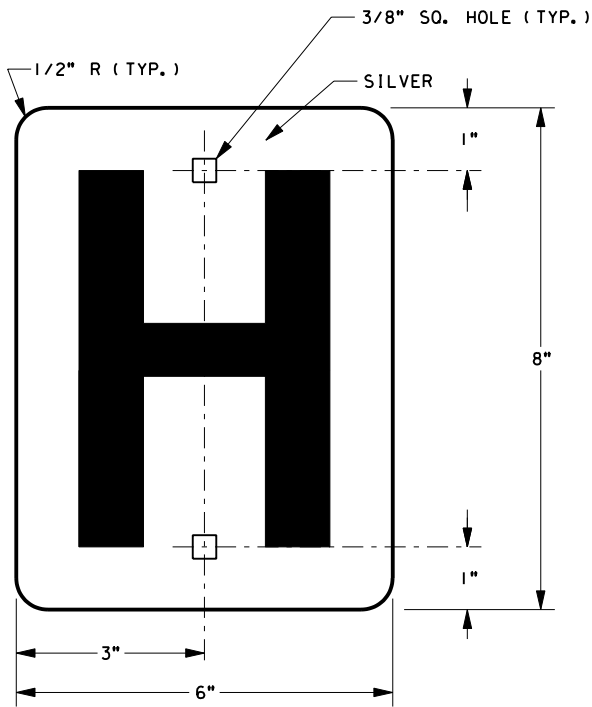
**CLEARANCE  
WARNING SIGNS**



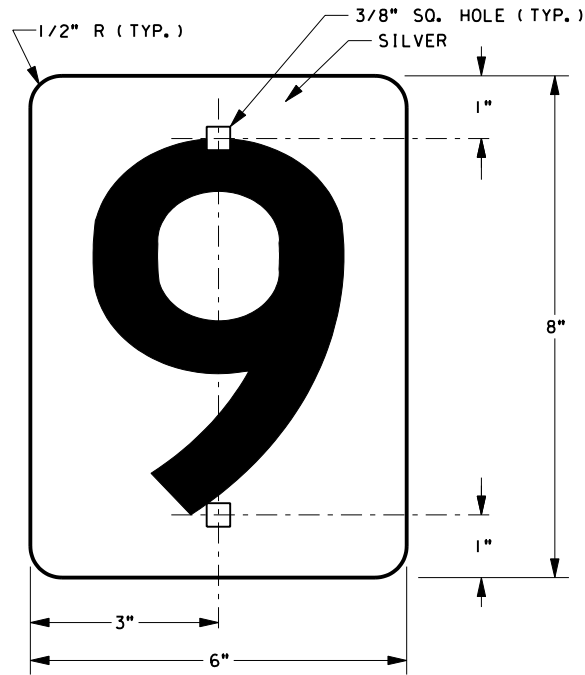
ADOPTED: NOV. 26, 1919  
REVISED: DEC. 30, 1996  
FILE NO.: 0513

**STD DWG  
0513**

**STD DWG  
0513**

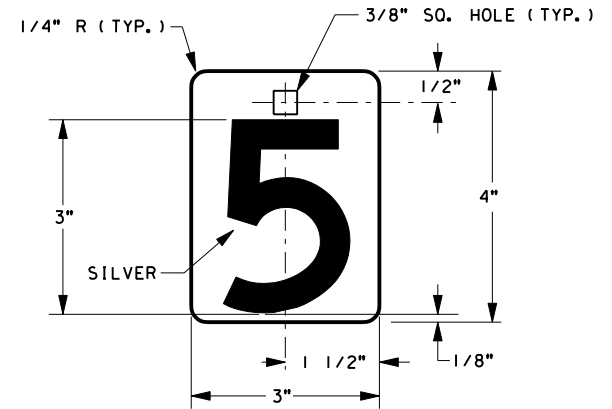


**LETTER SIGN**



**6" NUMERAL SIGN**

USE IN MARKING MILE POST, TUNNELS, HIGHWAY CROSSINGS, WHISTLE SIGN, AND PERMANENT SPEED RESTRICTION SIGNS



**3" NUMERAL SIGN**

USE IN MARKING STRUCTURE SIGNS

LETTER	ITEM NO.
A	393-8250
B	393-8252
C	393-8254
D	393-8256
E	393-8258
F	393-8260
G	393-8262
H	393-8264
I	393-8266
J	393-8268
K	393-8270
L	393-8272
M	393-8274

LETTER	ITEM NO.
N	393-8276
O	393-8278
P	393-8280
Q	393-8282
R	393-8284
S	393-8286
T	393-8288
U	393-8290
V	393-8292
W	393-8294
X	393-8296
Y	393-8298
Z	393-8300

6" NUMBERS	
NUMERAL	ITEM NO.
1	393-8201
2	393-8202
3	393-8203
4	393-8204
5	393-8205
6 OR 9	393-8206
7	393-8207
8	393-8208
0	393-8210

3" NUMBERS	
NUMERAL	ITEM NO.
1	393-8220
2	393-8211
3	393-8212
4	393-8213
5	393-8214
6	393-8215
7	393-8216
8	393-8217
9	393-8219
0	393-8218

NOTES:  
SIGNS TO BE 3870 SILVER 3M SILVER HIGH INTENSITY BACKGROUND ON 0.80" 3105 ALUMINUM SHEET.

FOR MILE MARKER DETAIL, SEE STD DWG 0535  
FOR VARIOUS MARKER DETAILS, SEE STD DWG 0507  
FOR TUNNEL SIGN DETAIL, SEE STD DWG 0553  
FOR HIGHWAY CROSSING DETAIL, SEE STD DWG 0529  
FOR LETTER DETAIL, SEE STD DWG 0501  
FOR NUMERAL DETAIL, SEE STD DWG 0501

UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS

SINGLE LETTER AND  
NUMERAL SIGN

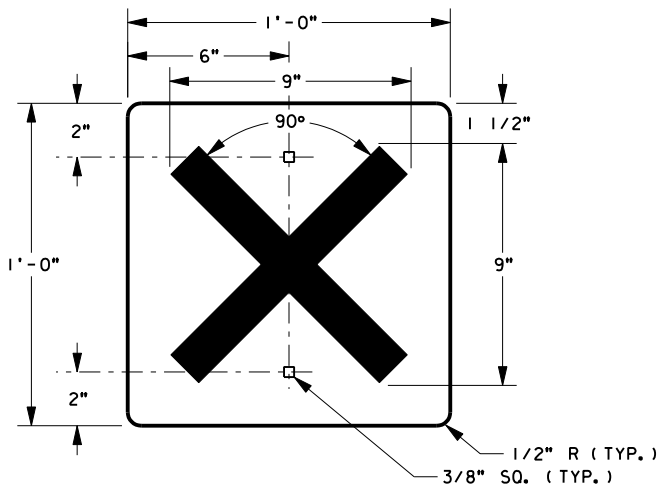


ADOPTED: JAN. 24, 1997  
REVISED: MARCH 1, 1998  
FILE NO.: 0502

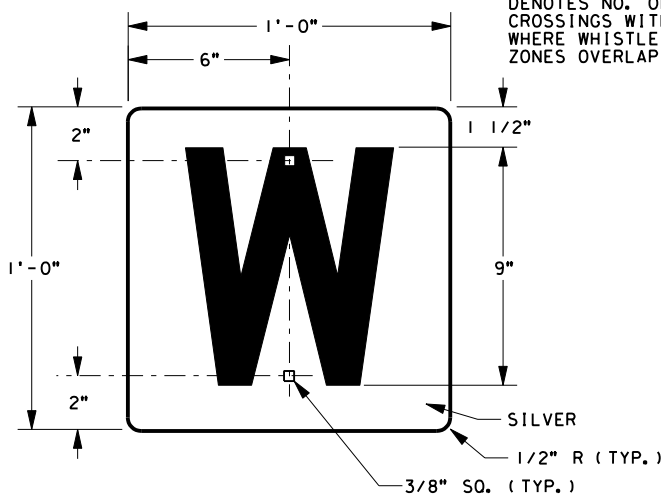
STD DWG  
0502A

STD DWG  
0502A

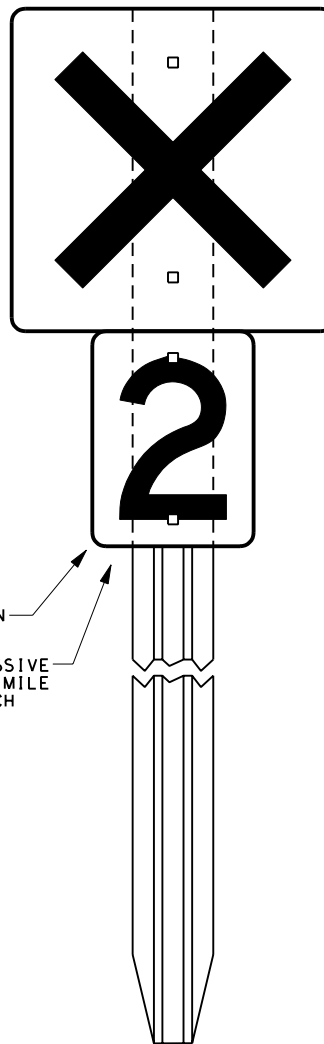




**GRADE CROSSINGS  
SIGN DETAIL**



**TUNNELS, ETC.  
SIGN DETAIL**



6" NUMERAL SIGN

DENOTES NO. OF SUCCESSIVE  
CROSSINGS WITHIN 1/4 MILE  
WHERE WHISTLE APPROACH  
ZONES OVERLAP

**NOTES:**

ALL SIGNS TO BE PLACED A MINIMUM OF ONE QUARTER MILE IN EACH DIRECTION IN ADVANCE OF LOCATIONS WHICH WARNING IS INTENDED. ALL SIGNS TO BE PLACED A MINIMUM OF TEN FEET FROM GAGE SIDE OF NEAREST RAIL. IN SINGLE TRACK TERRITORY, ALL WHISTLE SIGNS TO BE PLACED ON ENGINEERS' SIDE OF TRACK. IN MULTIPLE MAIN TRACK TERRITORY INCLUDING CONTROLLED SIDINGS, WHISTLE SIGNS SHOULD BE PLACED ON FIELD SIDE OF TRACK, HOWEVER, ON INTERIOR MULTIPLE MAIN TRACKS WHERE TRACK CENTERS ARE 20'-0" OR GREATER, WHISTLE SIGNS ARE TO BE CENTERED BETWEEN TRACKS ON THE ENGINEERS' SIDE OF TRACK.

"X" GRADE CROSSINGS SIGN TO BE PLACED IN ADVANCE OF PUBLIC CROSSINGS.  
"X" GRADE CROSSINGS SIGNS WITH NUMBERS, DENOTES NUMBER OF CROSSINGS, WHERE THERE ARE TWO OR MORE CROSSINGS WITHIN 1/4 MILE, AND THE WHISTLING APPROACH ZONES CAN OVERLAP. SIGNS TO BE NO. 3870 SILVER 3M HIGH INTENSITY BACKGROUND ON 0.080" 3105 SHEET ALUMINUM FACING.

"W" TUNNEL SIGN TO BE PLACED IN ADVANCE OF ALL TUNNELS AND AT OTHER LOCATIONS WHERE WHISTLE WARNING IS CONSIDERED NECESSARY. SIGN TO BE NO. 3870 SILVER 3M HIGH INTENSITY BACKGROUND ON 0.080" 3105 SHEET ALUMINUM FACING.

FOR LETTERING, SEE STD DWG 0501  
FOR 6" NUMBER SIGNS, SEE STD DWG 0502  
FOR MOUNTING DETAILS, SEE STD DWG 0599

REF. PREVIOUS U. P. STD PAGE 0555A-A

**UNION PACIFIC RAILROAD  
ENGINEERING STANDARDS**

**WHISTLE SIGNAL SIGNS**

ITEM	ITEM NO.
"X"	393-1755
"W"	393-1685



ADOPTED: JAN. 28, 1989  
REVISED: MARCH 1, 1998  
FILE NO.: 0555

**STD DWG  
0555A**

**STD DWG  
0555A**