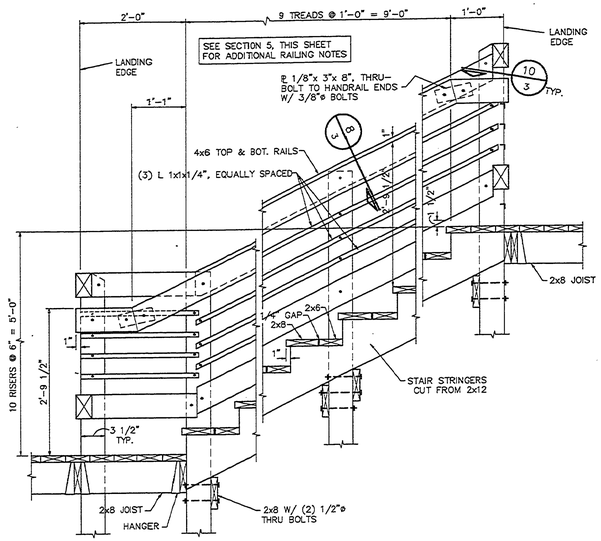
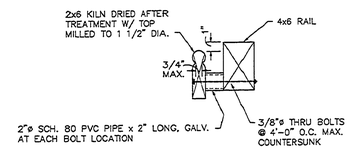
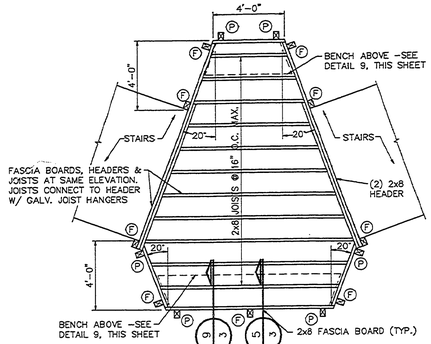


7/3 SECTION
SCALE: 3/4"= 1'-0"



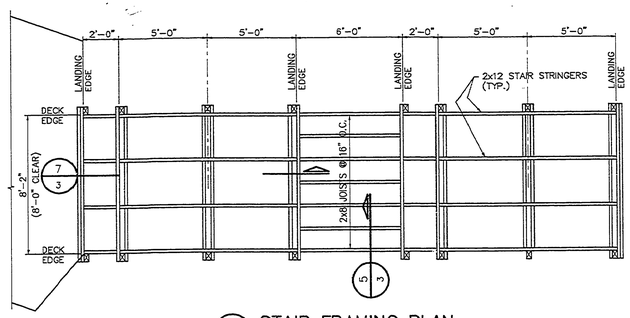
8/3 DETAIL
SCALE: 1 1/2"= 1'-0"



Ⓕ DENOTES FULL DEPTH RAILING POSTS EXTENDING TO FOOTING.

Ⓟ DENOTES PARTIAL RAILING POSTS EXTENDING TO FASCIA BOARD ONLY. L 1x1x1/4" RAILS SHALL BE CONTINUOUS ACROSS PARTIAL POSTS AND AROUND CORNERS, WITH JOINTS AT FULL POSTS ONLY.

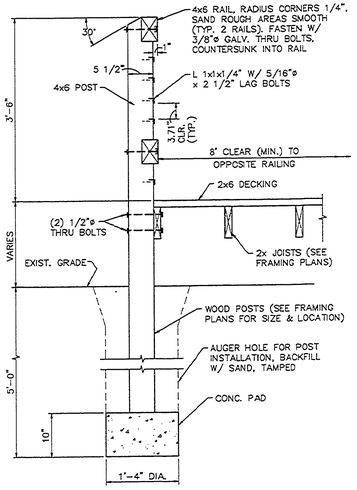
4/3 LANDING FRAMING PLAN
(TYPICAL OF 3)
SCALE: 1/4"= 1'-0"



1/3 STAIR FRAMING PLAN
(TYPICAL OF 3)
SCALE: 1/4"= 1'-0"

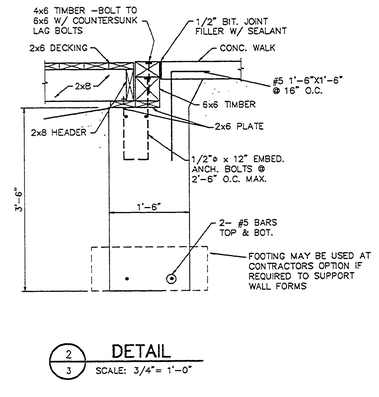
GENERAL STRUCTURAL NOTES

1. THE STRUCTURAL PLANS SHALL BE WORKED IN COORDINATION WITH THE PROJECT SPECIFICATIONS.
2. SUPERIMPOSED LOADS USED IN THE DESIGN ARE AS FOLLOWS:
   A. 100 PSF UNIFORM LOAD FOR DECKS AT ELEVATION 620 & 625. 60 PSF UNIFORM LOAD FOR ALL OTHER LANDINGS AND STAIRS.
   B. WIND LOAD. (80 MPH) 20 PSF.
   C. RAILING LOADS.
      1. 50 PSF UNIFORM LOAD ON TOP RAIL.
      2. 200 LB. CONCENTRATED LOAD AT ANY POINT.
3. FOOTINGS ARE TO BEAR ON SOLID UNDISTURBED SOILS OF 2500 PSF SAFE BEARING CAPACITY.
4. CONCRETE:
   A. ALL CONCRETE WORK TO BE PERFORMED IN CONFORMANCE WITH THE LATEST ACI301+318 CODE REQUIREMENTS AND DETAILING STANDARDS.
   B. ALL CONCRETE SHALL BE CLASS "B" (SEE SPECS.) MADE WITH STONE AGGREGATE AND SHALL DEVELOP 3000 PSI MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS. EXPOSED EXTERIOR CONCRETE SHALL BE AIR ENTRAINED.
5. STEEL:
   A. UNLESS OTHERWISE NOTED OR APPROVED BY THE PROJECT MANAGER, ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
   B. BOLTS SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED.
   C. GALVANIZE ALL STEEL SHAPES AND HARDWARE UNLESS OTHERWISE NOTED IN ACCORDANCE WITH ASTM A123, A153, OR A525. REPAIR DAMAGED OR WELDED AREAS WITH COLD GALVANIZING REPAIR PAINT.
6. WOOD:
   A. UNLESS OTHERWISE NOTED, LUMBER SHALL BE #2 SOUTHERN PINE OR #2 DOUG FIR TREATED TO A TOTAL ABSORPTION OF 0.40 POUNDS PER CUBIC FOOT OF WOOD. VERTICAL RAILING POSTS AND ALL WOOD IN CONTACT WITH EARTH SHALL BE TREATED TO A TOTAL ABSORPTION OF 0.60 POUNDS PER CUBIC FOOT OF WOOD.
   B. DECKING SHALL BE NOMINAL 2x6 #1 SOUTHERN YELLOW PINE PRESERVATIVE TREATED TO A TOTAL ABSORPTION OF 0.40 POUNDS PER CUBIC FOOT OF WOOD. KILN DRIED AFTER TREATMENT. FASTEN TO STRUCTURE WITH GALVANIZED 3" #8 COARSE THREAD BUGLE HEAD SCREWS AT 16" O.C. MAXIMUM.
   C. WOOD HANDRAILS SHALL BE #1 DENSE SOUTHERN PINE OR #1 DENSE DOUG FIR PRESERVATIVE TREATED TO A TOTAL ABSORPTION OF 0.40 POUNDS PER CUBIC FOOT OF WOOD. SAND ROUGH AREAS SMOOTH, RADIUS CORNERS 1/4". FASTEN W/ 3/8"ø GALV. THRU BOLTS COUNTERSUNK INTO RAIL.
   D. PRESERVATIVE TREATMENT SHALL BE CHROMATED COPPER ARSENATE (CCA) OR AMMONIOCAL COPPER ARSENATE (CHEMONITE OR ACA).
   E. JOIST HANGERS SHALL BE SIMPSON TYPE LU26 OR LS70 WITH "Z MAX" TRIPLE ZINC COATING OR APPROVED EQUAL. MINIMUM LOAD CAPACITY 560 LBS. WIND ANCHORS SHALL BE SIMPSON TYPE H WITH "Z-MAX" TRIPLE ZINC COATING OR APPROVED EQUAL.
7. CONTRACTOR SHALL FIELD VERIFY ALL AFFECTED EXISTING TREES AND TREE ROOTS PRIOR TO COMMENCING WORK. CONTRACTOR SHALL MAKE ADJUSTMENTS IN PROPOSED WORK, SUBJECT TO PROJECT MANAGERS APPROVAL, TO ACCOMMODATE ACTUAL FIELD CONDITIONS THAT MAY VARY WITH INFORMATION SHOWN ON PLANS.

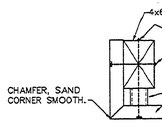


9/3 DETAIL
SCALE: 3/4"= 1'-0"

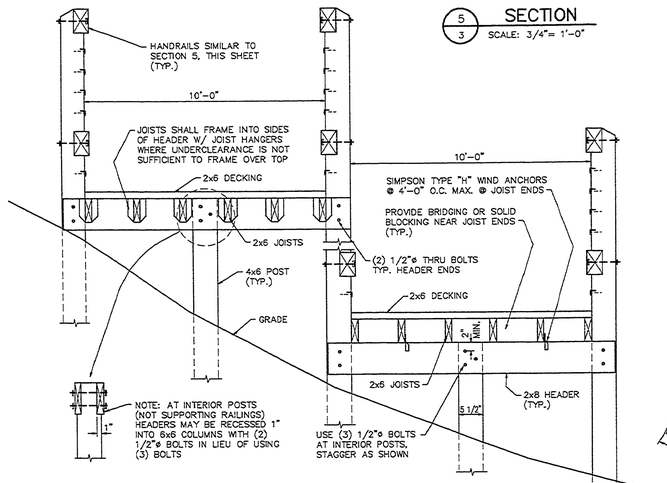
5/3 SECTION
SCALE: 3/4"= 1'-0"



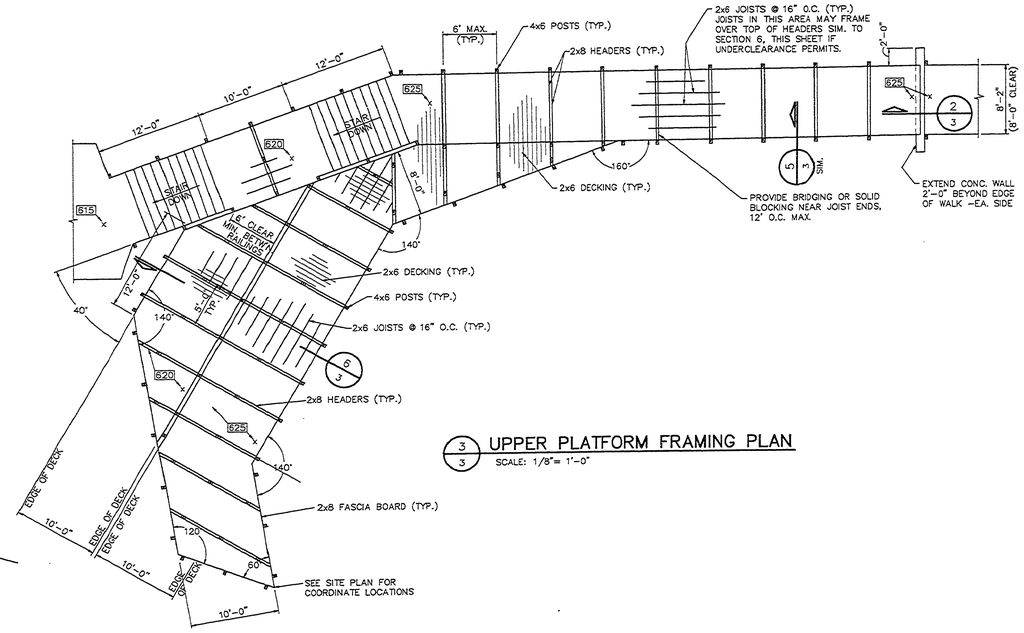
2/3 DETAIL
SCALE: 3/4"= 1'-0"



10/3 DETAIL - (TYPICAL ALL HANDRAIL ENDS)
SCALE: 1 1/2"= 1'-0"



6/3 SECTION
NO SCALE



3/3 UPPER PLATFORM FRAMING PLAN
SCALE: 1/8"= 1'-0"

FILE NAME: 31975TRU	DRAWN BY: RJC	DESIGNED BY: RHH	APPROVED BY: -
PLOT DATE: 12-20-95	UPDATED BY: SRO	CHECKED BY: -	

G:\95197\STR\61975TRU 12/21/95 10:44

REVISIONS		DATE
SRO		12-21-95

SCALE: 4" AS SHOWN
PROJ. NO.: 95-197
DATE: 12/95

CAPITAL CONSULTANTS ENGINEERS

STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

DATE	ISSUED FOR
8-30-95	☒ PRELIMINARY
9-18-95	☒ CONSTRUCTION
12-21-95	☒ REVISED FOR CONSTRUCTION
	☐ FINAL RECORD

PROPOSAL #
STATE PCN # 68060
STATE INDEX # 55160

STRUCTURAL DETAILS
MUSKEGON STATE PARK
NORTH CAMPGROUND
TIMBER STAIRWAY BEACH ACCESS

SHEET
3 OF 3

L-1734