

SW COAST STREET

SW 2ND STREET

**LEGEND**

- LAWN
- PROPOSED TREES
- PLANT BED/ SHRUB MASSINGS
- EXISTING VEGETATION TO REMAIN
- DUNE GRASS ON SLOPES
- MEADOW
- LAWN AREAS
- CONCRETE BENCH (9 TOTAL)
- BIKE RACK (2 TOTAL)
- CONCRETE WALK
- ASPHALT WALK
- PAVING INLAY
- PROJECT BOUNDARY (PHASE I)
- CAMAS BASALT STEPPING STONES

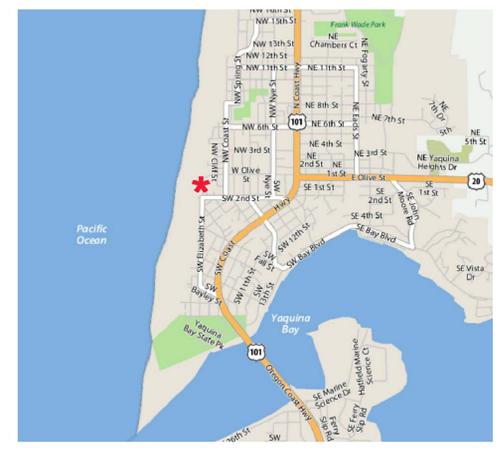
**KEY**

- ① FUTURE RESTROOM AND SHELTER
- ② 'SHIP WRECK' PLAY STRUCTURE AND SLIDE - TO BE PROVIDED BY CITY, INSTALLED BY CONTRACTOR
- ③ SAND PIT
- ④ PLAY AREA WITH NATURAL PLAY ELEMENTS; PLAYGROUND EQUIPMENT BY OTHERS
- ⑤ KINETIC MIND SCULPTURE AND PAVING INLAYS - SCULPTURE BY OTHERS; INLAY STAMPS TO BE PROVIDED BY CITY
- ⑥ FUTURE WHALE SCULPTURE
- ⑦ BASALT STONE STAGE
- ⑧ CONCRETE SEATING AND RETAINING WALL
- ⑨ RETAINING WALL WITH FUTURE ART PANELS
- ⑩ PATH CONNECTION TO MONTESSORI SCHOOL - EXACT LOCATION TO BE DETERMINED BY ENGINEER
- ⑪ COAST STREET OVERLOOK
- ⑫ FREE STANDING CONCRETE SEAT WALLS
- ⑬ RAIN GARDEN WITH FOOT BRIDGE
- ⑭ GRAVEL PATH WITH CURB

**GENERAL NOTE:**  
THIS PLAN SET INDICATES DESIGN INTENT ONLY AND IS MEANT TO PROVIDE REFERENCE FOR CONTRACTOR PARK CONSTRUCTION.

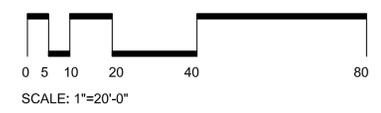
**DRAWING INDEX**

- LA-1 ILLUSTRATIVE MASTER PLAN
- E-1 EXISTING CONDITIONS PLAN
- LA-2 LAYOUT AND MATERIALS PLAN
- LA-3 GRADING AND DRAINAGE CONCEPT PLAN
- LA-4 PLANTING PLAN (FOR REFERENCE ONLY. LANDSCAPING BY OTHERS)
- LA-5 SITE AND PLANTING DETAILS (PLANTING DETAILS FOR REFERENCE ONLY)
- DE-1 RETAINING WALL DETAILS
- DE-2 CITY STANDARD DETAILS
- DE-3 BRIDGE DETAILS
- DE-4 STANDARD DETAILS



VICINITY MAP  
N.T.S.

**ILLUSTRATIVE MASTER PLAN**



CLIENT:  
CITY OF  
NEWPORT

CONTACT:  
JIM PROTIVA  
DIRECTOR OF  
PARKS AND  
RECREATION  
541-265-7783

**COAST PARK**  
NYE BEACH DISTRICT  
NEWPORT, OR

Date: 2/21/11  
Drawn By: EP  
Checked By: DJD  
Submission: PARK CONSTRUCTION REFERENCE PACKAGE

Revisions

△	Date

**LA-1**



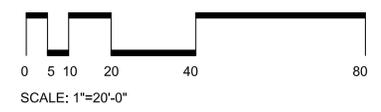
SW COAST STREET

SW 2ND STREET

- LEGEND**
- EXISTING SPOT ELEVATION
  - EXISTING CONTOUR LINE AND ELEVATION
  - EX. LIGHTS

- NOTES**
1. EXISTING SITE INFORMATION, INCLUDING TOPOGRAPHIC INFORMATION, IS DERIVED FROM AERIAL PHOTOGRAPHS AND CITY CAD FILES. CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
  2. CONTRACTOR TO VERIFY LOCATIONS OF ALL PROPERTY LINES, BUILDING CORNERS AND OTHER SITE ELEMENTS IDENTIFIED ON THIS PLAN. NOTIFY OWNER IF DISCREPANCIES EXIST.

**EXISTING CONDITIONS PLAN**



**DOUGHERTY  
LANDSCAPE  
ARCHITECTS**

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CLIENT:  
**CITY OF  
NEWPORT**

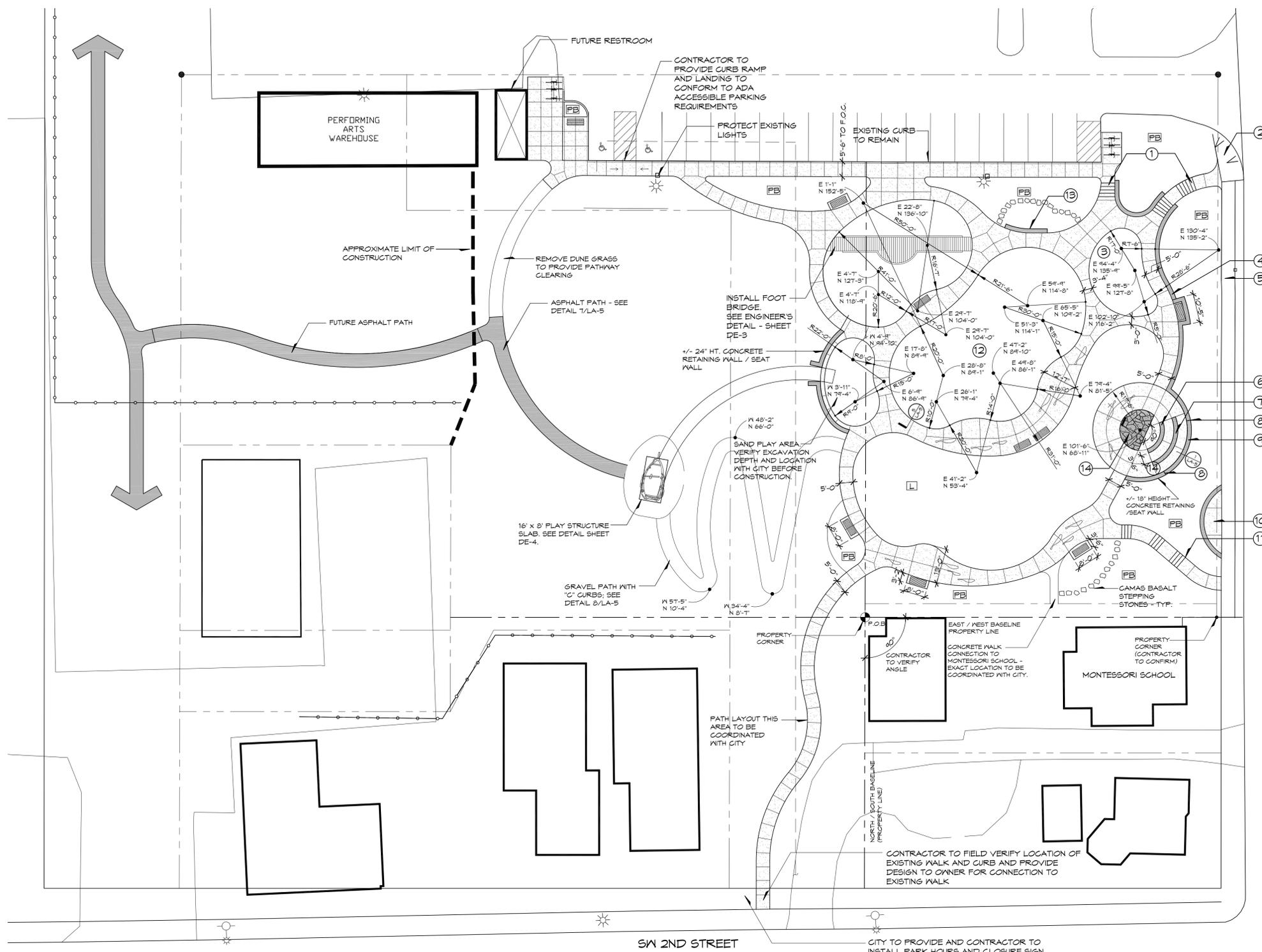
CONTACT:  
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**COAST PARK**  
NYE BEACH DISTRICT  
NEWPORT, OR

Date:	1/25/11
Drawn By:	EP
Checked By:	DJD
Submission:	PARK CONSTRUCTION REFERENCE PACKAGE

Revisions	Date

**E-1**



- KEY**
- ① INSTALL 2" NON-SKID ADA TAPE ON STAIR TREADS
  - ② REPLACE CURB RAMP TO CONFORM TO CITY STANDARD AND ADA REQUIREMENTS. FIELD VERIFY AND PROVIDE DESIGN TO OWNER FOR CONNECTION TO EXISTING WALK
  - ③ PLAY AREA WITH ENGINEERED WOOD CHIP SURFACING. SEE NOTE #1.
  - ④ +/- 30" HT. RETAINING / ART WALL NORTH OF BENCH - DESIGN TO BE APPROVED BY OWNER
  - ⑤ EXISTING SIDEWALK TO REMAIN
  - ⑥ 15" HT. FREESTANDING CONCRETE SEAT WALL (SEE DETAIL 1/LA-5)
  - ⑦ 18" HT. FREESTANDING CONCRETE SEAT WALL (SEE DETAIL 1/LA-5)
  - ⑧ STEP DOWN WALL AS NEEDED TO +/- 18" HEIGHT
  - ⑨ +/- 30" CONCRETE WALL W/ 12" RAIL
  - ⑩ CONCRETE VIEWING PLATFORM (SEE DETAIL 2/LA-5)
  - ⑪ PROVIDE REQUIRED HANDRAILS AT STEPS THAT CONFORM TO ADA AND BUILDING CODES - TYP.
  - ⑫ PLAY AREA - SEE DETAIL FOR WALK EDGE - CONTRACTOR TO COORDINATE REQUIREMENTS FOR SAND SURFACING WITH CITY
  - ⑬ 18" HT. FREESTANDING CONCRETE SEAT WALL
  - ⑭ 8" HEIGHT BASALT STONE STAGE. SEE DETAIL 1/LA-5.

SW COAST STREET

SW 2ND STREET

**LEGEND**

- |  |  |  |   |
|--|--|--|---|
|  | NEW CONCRETE PAVING WITH TOOLED JOINTS- See Details  |  | BIKE LOOPS (Provided and installed by owner.) |
|  | ASPHALT WALK - See Details   |  | LOCATION POINT (w/coordinates)                |
|  | CONCRETE BENCH (Provided and installed by owner)   |  | CONCRETE WALLS                                |
|  | POINT OF BEGINNING (All coordinates are located in relation to this point at direction and dimensions noted) |  | PLANT BED - See Planting Plan and Details     |
|  |  |  | LAWN - See Planting Plan and Details          |

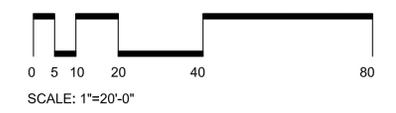
**NOTES:**

1. CONTRACTOR MAY REQUEST AUTOCAD FILES FROM CITY FOR LAYOUT PURPOSES.
2. BASELINES ARE NOT ASSUMED TO BE TRUE NORTH SOUTH AXES. BASELINES CORRESPOND TO PROPERTY LINES (BASED UPON INFORMATION PROVIDED BY THE CITY OF NEWPORT). DIMENSIONS AS SHOWN ARE MEASURED ALONG THESE BASELINES AND ARE NOT TRUE NORTH / SOUTH DIMENSIONS.
3. CONTRACTOR TO VERIFY ALL PROPERTY LINES, MONUMENT LOCATIONS AND EXISTING CONDITIONS. REVISE LAYOUT AS NEEDED AND PROVIDE SHOP DRAWINGS TO THE CITY TO ACCOUNT FOR ANY DISCREPANCIES IN DIMENSIONS, LOCATIONS, GRADES OR OTHER CONDITIONS.
4. CONTRACTOR SHALL STAKE OR PAINT LAYOUT OF ALL WALKS AND PAVED AREAS TO BE APPROVED BY CITY PRIOR TO CONSTRUCTION.
5. REMOVE ALL EXISTING SITE ELEMENTS AS NEEDED TO CONSTRUCT PROPOSED IMPROVEMENTS.
6. EXISTING SITE INFORMATION, INCLUDING TOPOGRAPHIC INFORMATION, IS DERIVED FROM AERIAL PHOTOGRAPHS AND CITY CAD FILES. CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO COORDINATE REQUIREMENTS FOR PLAY EQUIPMENT FOOTINGS AND SAFETY SURFACING WITH CITY.
8. CONTRACTOR TO COORDINATE PLAY AREA RAMP LOCATIONS WITH CITY. SEE DETAIL 5/LA-5.
9. CONTRACTOR TO VERIFY REQUIRED NUMBER OF STEPS AND TREAD/RISER RATIO. PROVIDE REQUIRED HANDRAILS THAT CONFORM TO ADA AND BUILDING CODES.

**GENERAL NOTES:**

1. THIS PLAN SET INDICATES DESIGN INTENT AND IS MEANT TO PROVIDE A REFERENCE FOR CONTRACTOR. ALL PARK LAYOUT AND DESIGN DETAILS ARE TO BE APPROVED BY CITY PRIOR TO CONSTRUCTION.
2. SEE SHEET LA-3 FOR SITE GRADING.
3. SEE SHEET LA-4 FOR PLANTING.
4. SEE SHEET LA-5 FOR SITE DETAILS.

**LAYOUT AND MATERIALS PLAN**



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**COAST PARK**  
NYE BEACH DISTRICT  
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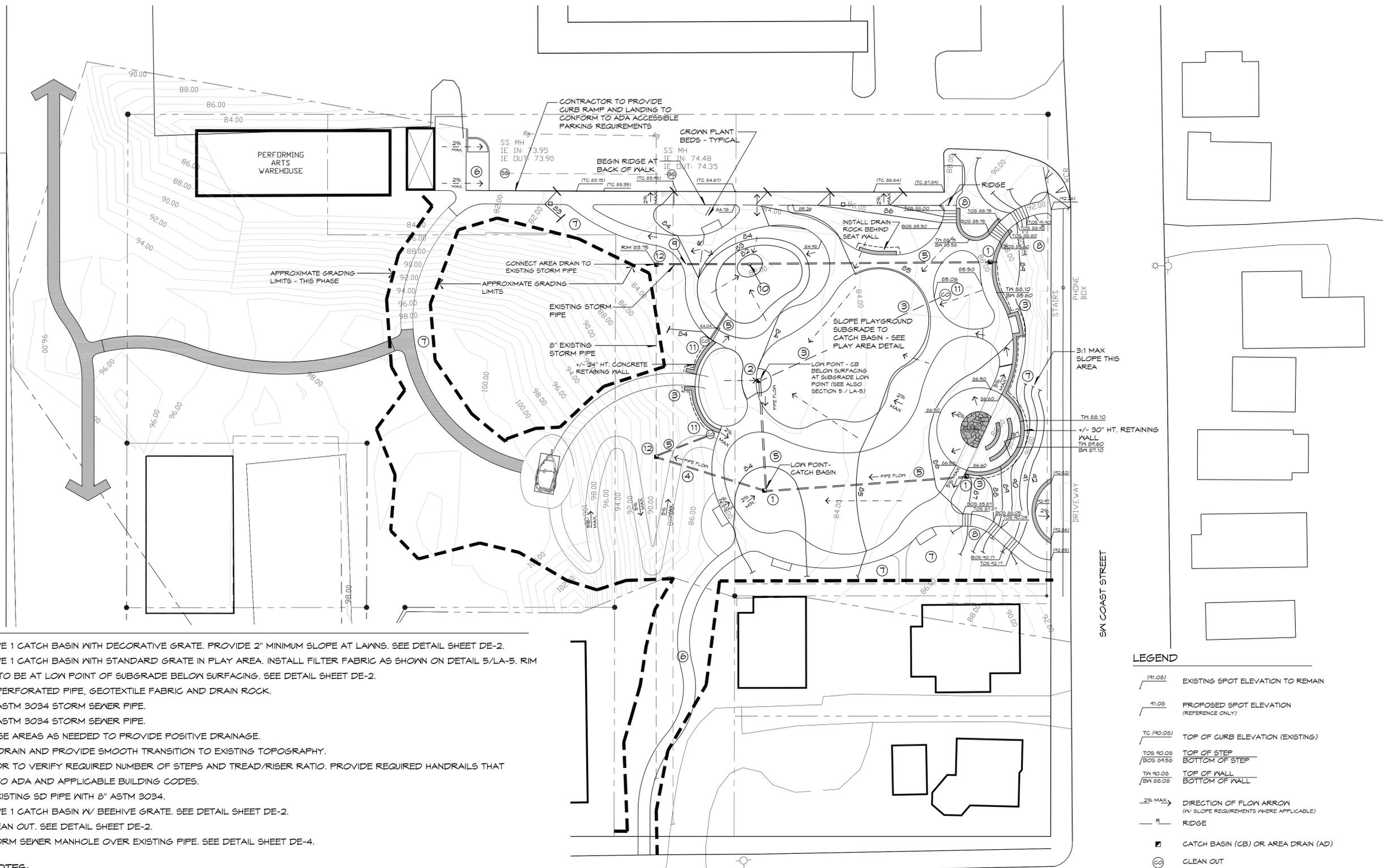
Submission: PARK CONSTRUCTION REFERENCE PACKAGE

Revisions

Date

**LA-2**

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**KEY**

- ① INSTALL TYPE 1 CATCH BASIN WITH DECORATIVE GRATE. PROVIDE 2" MINIMUM SLOPE AT LAWNS. SEE DETAIL SHEET DE-2.
- ② INSTALL TYPE 1 CATCH BASIN WITH STANDARD GRATE IN PLAY AREA. INSTALL FILTER FABRIC AS SHOWN ON DETAIL 5/LA-5. RIM ELEVATION TO BE AT LOW POINT OF SUBGRADE BELOW SURFACING. SEE DETAIL SHEET DE-2.
- ③ INSTALL 6" PERFORATED PIPE, GEOTEXTILE FABRIC AND DRAIN ROCK.
- ④ INSTALL 8" ASTM 3034 STORM SEWER PIPE.
- ⑤ INSTALL 6" ASTM 3034 STORM SEWER PIPE.
- ⑥ GRADE THESE AREAS AS NEEDED TO PROVIDE POSITIVE DRAINAGE.
- ⑦ GRADE TO DRAIN AND PROVIDE SMOOTH TRANSITION TO EXISTING TOPOGRAPHY.
- ⑧ CONTRACTOR TO VERIFY REQUIRED NUMBER OF STEPS AND TREAD/RISER RATIO. PROVIDE REQUIRED HANDRAILS THAT CONFORM TO ADA AND APPLICABLE BUILDING CODES.
- ⑨ REPLACE EXISTING SD PIPE WITH 8" ASTM 3034.
- ⑩ INSTALL TYPE 1 CATCH BASIN W/ BEEHIVE GRATE. SEE DETAIL SHEET DE-2.
- ⑪ INSTALL CLEAN OUT. SEE DETAIL SHEET DE-4.
- ⑫ INSTALL STORM SEWER MANHOLE OVER EXISTING PIPE. SEE DETAIL SHEET DE-4.

**GENERAL NOTES:**

1. THIS PLAN SET INDICATES DESIGN INTENT ONLY AND IS INTENDED AS A REFERENCE FOR CONTRACTOR DURING PARK CONSTRUCTION. ALL WORK TO BE LAID OUT, STAKED AND OTHERWISE CLEARLY COMMUNICATED BY THE CONTRACTOR FOR CITY APPROVAL PRIOR TO CONSTRUCTION.
2. EXISTING SITE INFORMATION, INCLUDING TOPOGRAPHIC INFORMATION, IS DERIVED FROM AERIAL PHOTOGRAPHS AND CITY CAD FILES. CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
3. PRIOR TO COMMENCING WORK, CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND OTHER EXISTING FEATURES THAT ARE AFFECTED BY THIS WORK.
4. CONTRACTOR TO COORDINATE ANY REQUIRED PERMITTING WITH THE CITY OF NEWPORT AS NEEDED.
5. SEE SHEET E-1, EXISTING CONDITIONS PLAN, FOR EXISTING SPOT ELEVATIONS.
6. SEE ENGINEER'S DETAIL SHEETS FOR PIPING AND DRAINAGE STRUCTURES.

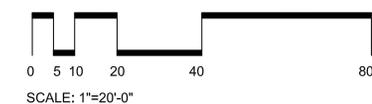
**GRADING, LAYOUT AND PAVING NOTES:**

1. COORDINATE AND FIELD FIT PARK GRADING AND STORMWATER DRAINAGE WITH CITY DURING CONSTRUCTION. SPOT ELEVATIONS AND OTHER DRAINAGE INFORMATION SHOWN ON THIS PLAN ARE INTENDED TO DEMONSTRATE GRADING INTENT AND ARE TO BE USED BY THE CONTRACTOR ONLY AS A REFERENCE FOR GRADING DESIGN. PRIOR TO ANY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PROVIDE TO THE CITY, AS SHOP DRAWINGS, ADEQUATE GRADING INFORMATION FOR PROPOSED WORK TO ALLOW FOR THE EVALUATION OF ITS RELATIONSHIP TO EXISTING SITE FEATURES AND PROPOSED DRAINAGE. SHOP DRAWINGS SHALL RESPOND TO FIELD CONDITIONS AND PROVIDE POSITIVE SURFACE DRAINAGE.
2. CONTRACTOR IS RESPONSIBLE FOR STAKING OF ALL SITE IMPROVEMENTS FOR APPROVAL BY CITY. NOTIFY CITY UPON DISCOVERY OF ANY DISCREPANCIES IN DIMENSIONS, LOCATIONS, SLOPES OR OTHER DISCREPANCIES.
3. STAKED OR PAINTED LAYOUT OF ALL WALKS AND PAVED AREAS IS TO BE APPROVED BY CITY PRIOR TO CONSTRUCTION.
4. MINIMUM SLOPE FOR ALL PAVED SURFACES TO BE 1.5%. MINIMUM SLOPE FOR LAWNS TO BE 2%.
5. CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ALL SLOPES AT ALL PEDESTRIAN SURFACES (INCLUDING PLAY AREA SURFACING) IN COMPLIANCE WITH ADA STANDARDS. CROSS SLOPES ARE NOT TO EXCEED 2% AND LONGITUDINAL SLOPES ARE NOT TO EXCEED 5%.

**LEGEND**

- (91.02) EXISTING SPOT ELEVATION TO REMAIN
- 91.02 PROPOSED SPOT ELEVATION (REFERENCE ONLY)
- TC (90.00) TOP OF CURB ELEVATION (EXISTING)
- TOS 90.00 / BOS 84.50 TOP OF STEP / BOTTOM OF STEP
- TA 92.00 / BA 88.00 TOP OF WALL / BOTTOM OF WALL
- 2% MAX DIRECTION OF FLOW ARROW (W/ SLOPE REQUIREMENTS WHERE APPLICABLE)
- R RIDGE
- CATCH BASIN (CB) OR AREA DRAIN (AD)
- ⊙ CLEAN OUT
- PROPOSED STORM PIPE
- - - 6" DIAMETER PERF PIPE
- 92 EXISTING CONTOUR LINE AND ELEVATION
- 92 PROPOSED CONTOUR LINE AND ELEVATION (REFERENCE ONLY)

**GRADING AND DRAINAGE CONCEPT PLAN**



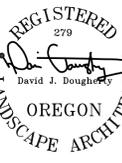


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**COAST PARK**  
NYE BEACH DISTRICT  
NEWPORT, OR

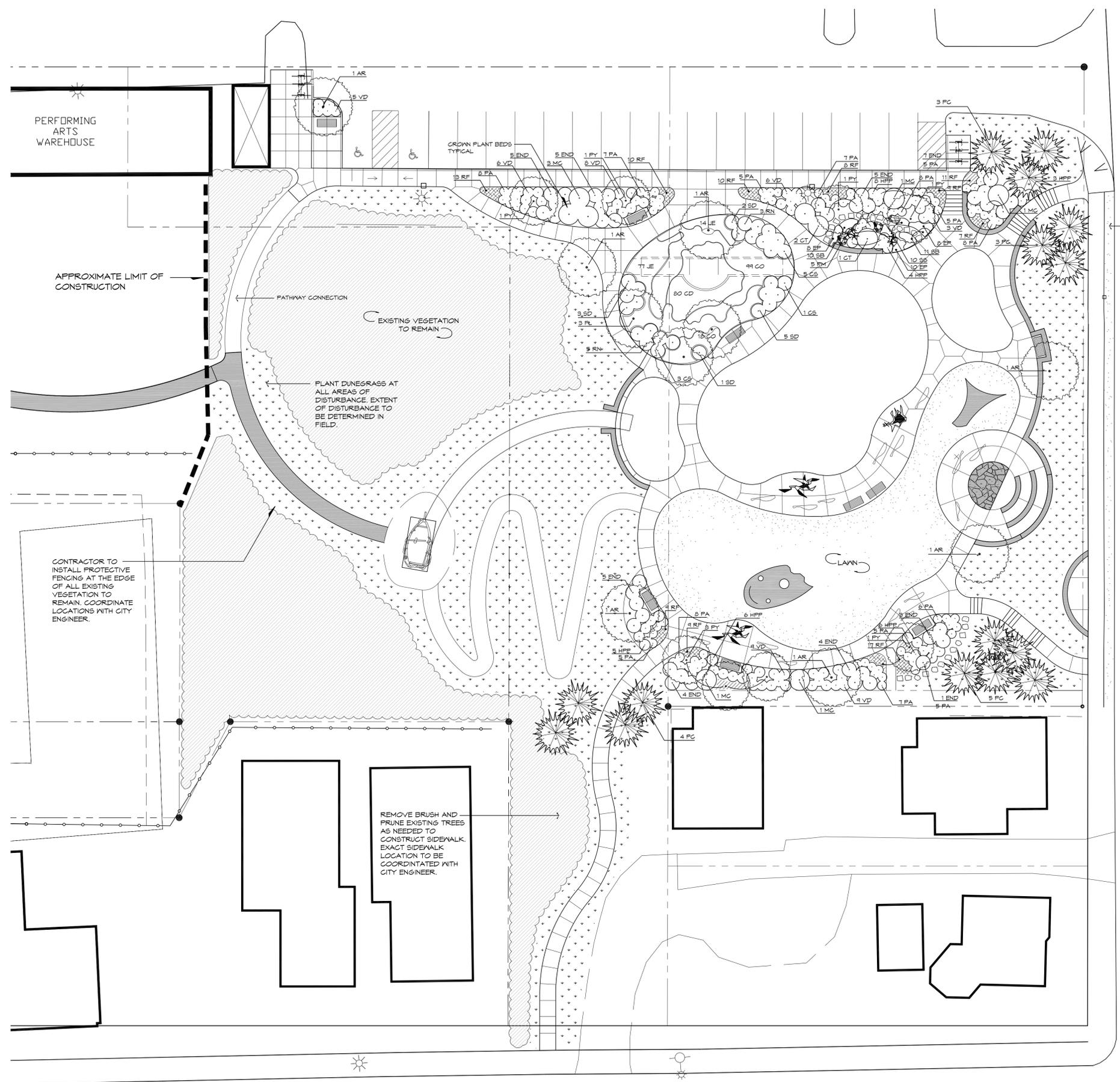
Date: 2/21/11  
Drawn By: EP  
Checked By: DJD  
Submission: PARK CONSTRUCTION REFERENCE PACKAGE

Revisions

△	Date

**LA-3**

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**PLANT SCHEDULE**

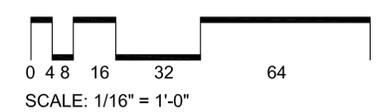
KEY	QTY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS
<b>TREES</b>					
AR	6	<i>Alnus rubra</i>	Red Alder	1.75" cal.	matching, Full
FL	3	<i>Fraxinus latifolia</i>	Oregon Ash	1.75" cal.	matching, Full
PC	18	<i>Pinus contorta 'Contorta'</i>	Shore Pine	4' ht.	Matching, Full, B4B
PY	8	<i>Prunus x yedoensis</i>	Yoshino Cherry	1.75" cal.	single stem, B4B
<b>SHRUBS</b>					
CT	3	<i>Ceanothus thyrsiflorus</i>	Blue Blossom Ceanothus	5 gal.	matching, Full
CS	4	<i>Cornus sericea</i>	Red-Osier Dogwood	5 gal.	matching, Full
END	38	<i>Escallonia 'Neuport Dwarf'</i>	Newport Dwarf Escallonia	3 gal.	matching, Full
HPP	32	Hebe 'Patty's Purple'	Patty's Purple Hebe	3 gal.	matching, Full
MC	7	<i>Myrica californica</i>	Pacific Wax Myrtle	4" ht.	matching, Full
PM	5	<i>Polystichum munitum</i>	Sword Fern	1 gal.	matching, Full
RN	8	<i>Rosa nutkana</i>	Nootka Rose	3 gal.	matching, Full
SD	11	<i>Spiraea douglasii</i>	Western spiraea	3 gal.	matching, Full
VD	46	<i>Viburnum davidii</i>	David Viburnum	3 gal.	matching, Full
<b>GROUNDCOVERS, GRASSES AND PERENNIALS</b>					
AUW	24'	<i>Arctostaphylos uva-ursi</i>	Kinnikinnick	1 gal.	matching, Full
CO	117	<i>Carex obtusata</i>	Blough Sedge	1 gal.	matching, Full
CD	80	<i>Carex densa</i>	Dense Sedge	1 gal.	matching, Full
ELMO	18'	<i>Elymus mollis</i>	American Dune Grass	1 gal.	matching, Full
EP	28	<i>Echinacea purpurea 'Magnus'</i>	Magnus Purple Coneflower	1 gal.	matching, Full
JE	41	<i>Juncus effusus</i>	Soft Rush	1 gal.	matching, Full
PA	84	<i>Pennisetum alopecuroides</i>	Fountain Grass	1 gal.	matching, Full
RF	42	<i>Rudbeckia fulgida</i>	Black-eyed Susan	1 gal.	matching, Full
SB	21	<i>Stachys byzantina</i>	Lamb's Ear	1 gal.	matching, Full
SS	10	<i>Symphoricarion sp.</i>	Aster	1 gal.	matching, Full

**PLANTING LEGEND**

-  LAWN - SEEDED
-  DECIDUOUS TREE
-  CONIFER
-  DUNE GRASS (ELMO)  
SEE PLANT SCHEDULE
-  EXISTING VEGETATION TO REMAIN

**GENERAL NOTES:**  
SEE SHEET LA-5 PLANTING DETAILS.

**PLANTING PLAN**



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NYE BEACH DISTRICT  
NEWPORT, OR

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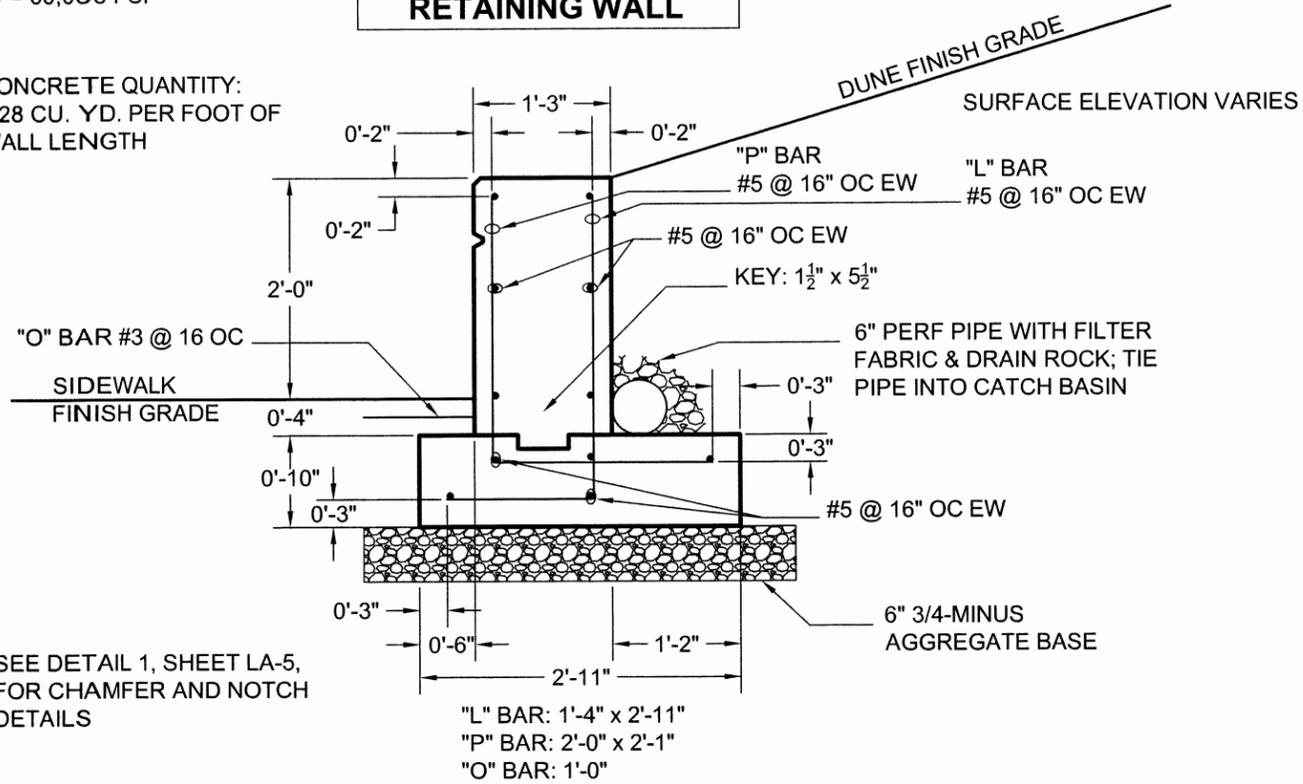
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F<sub>c</sub> = 3,000 PSI  
F<sub>y</sub> = 60,000 PSI

**15" X 24" RETAINING WALL**

CONCRETE QUANTITY:  
0.28 CU. YD. PER FOOT OF  
WALL LENGTH

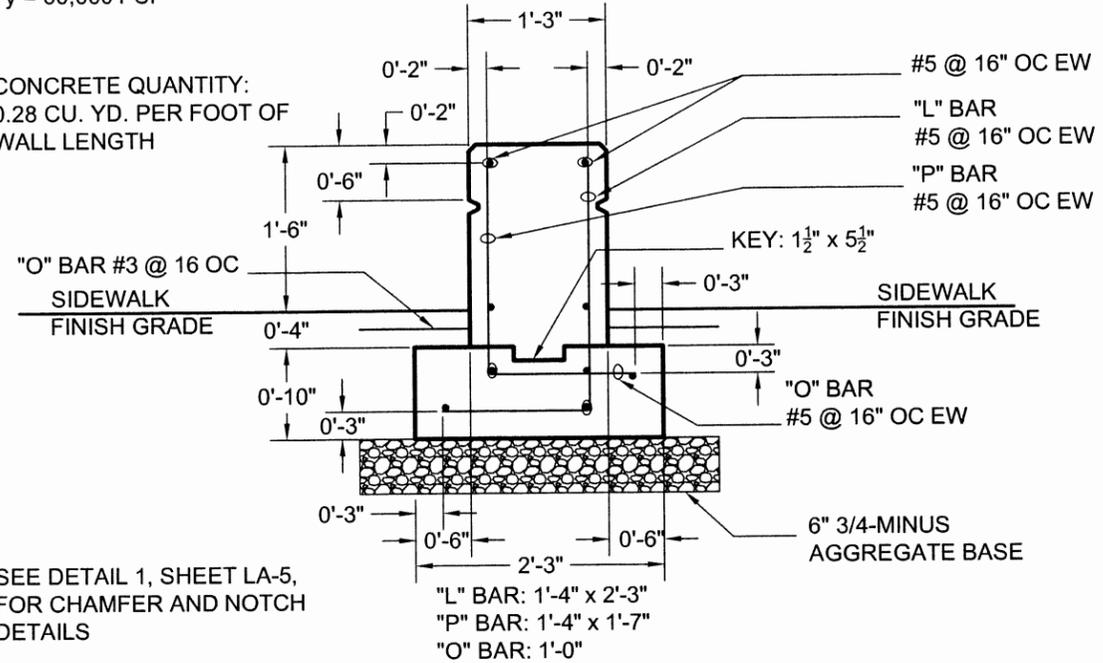


SEE DETAIL 1, SHEET LA-5,  
FOR CHAMFER AND NOTCH  
DETAILS

F<sub>c</sub> = 3,000 PSI  
F<sub>y</sub> = 60,000 PSI

**15" X 18" SEAT WALL**

CONCRETE QUANTITY:  
0.28 CU. YD. PER FOOT OF  
WALL LENGTH

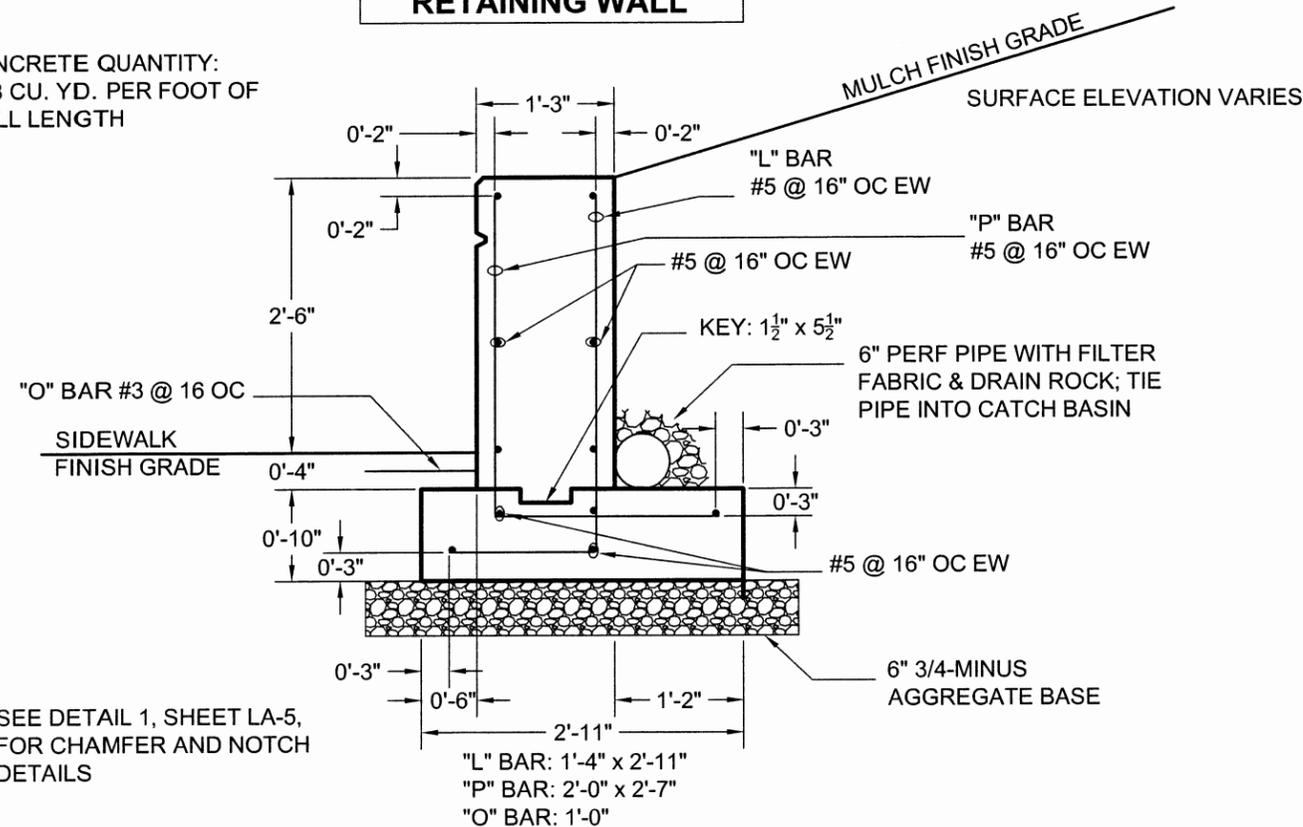


SEE DETAIL 1, SHEET LA-5,  
FOR CHAMFER AND NOTCH  
DETAILS

F<sub>c</sub> = 3,000 PSI  
F<sub>y</sub> = 60,000 PSI

**15" X 30" RETAINING WALL**

CONCRETE QUANTITY:  
0.28 CU. YD. PER FOOT OF  
WALL LENGTH

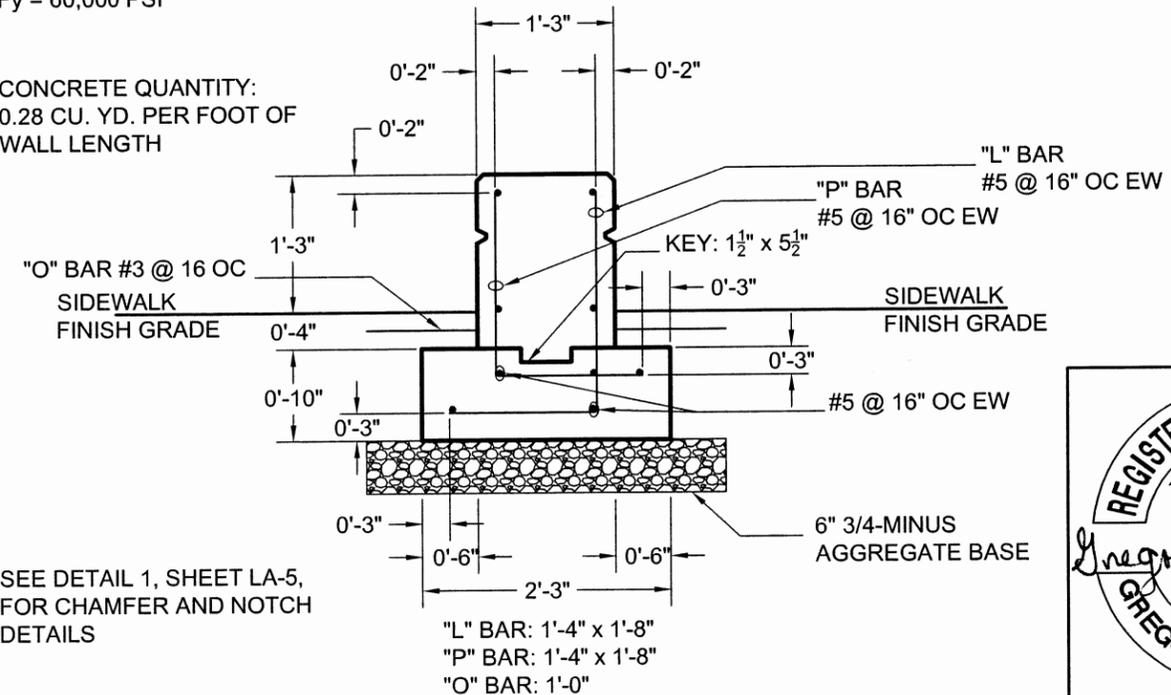


SEE DETAIL 1, SHEET LA-5,  
FOR CHAMFER AND NOTCH  
DETAILS

F<sub>c</sub> = 3,000 PSI  
F<sub>y</sub> = 60,000 PSI

**15" X 15" SEAT WALL**

CONCRETE QUANTITY:  
0.28 CU. YD. PER FOOT OF  
WALL LENGTH



SEE DETAIL 1, SHEET LA-5,  
FOR CHAMFER AND NOTCH  
DETAILS

COAST PARK  
CITY OF NEWPORT  
NEWPORT, OREGON

DATE: 4 OCT 2010  
DESIGN: GS  
DRAWING: MJR  
CHECKED: GS

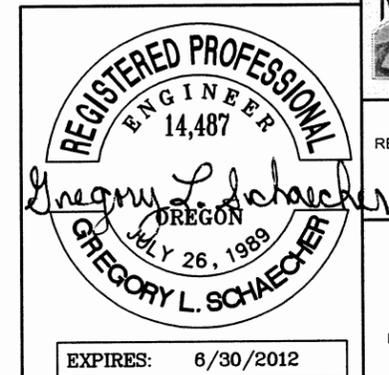
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SCALE: HORIZ: 3/4" = 1'  
PROJECT #: REVISION BY: AS BUILT BY:



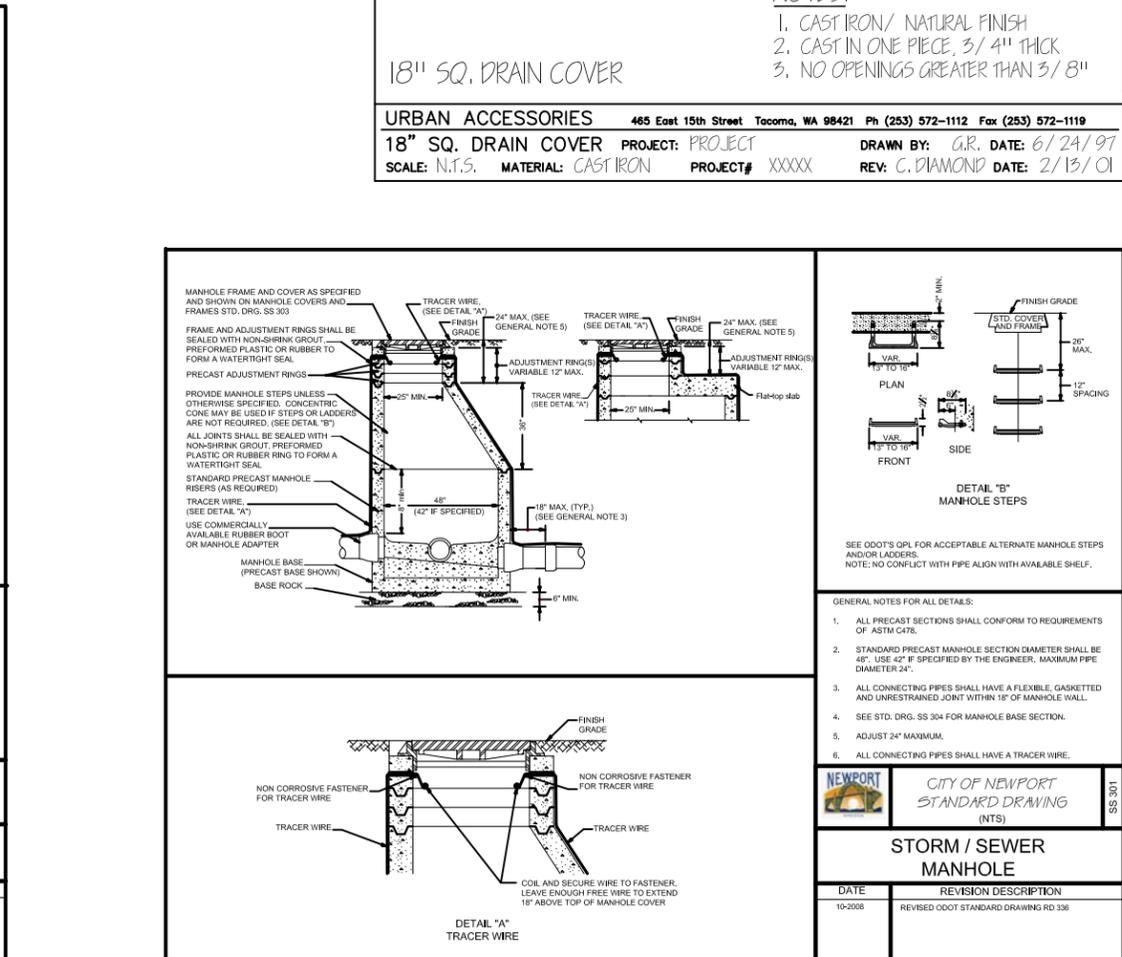
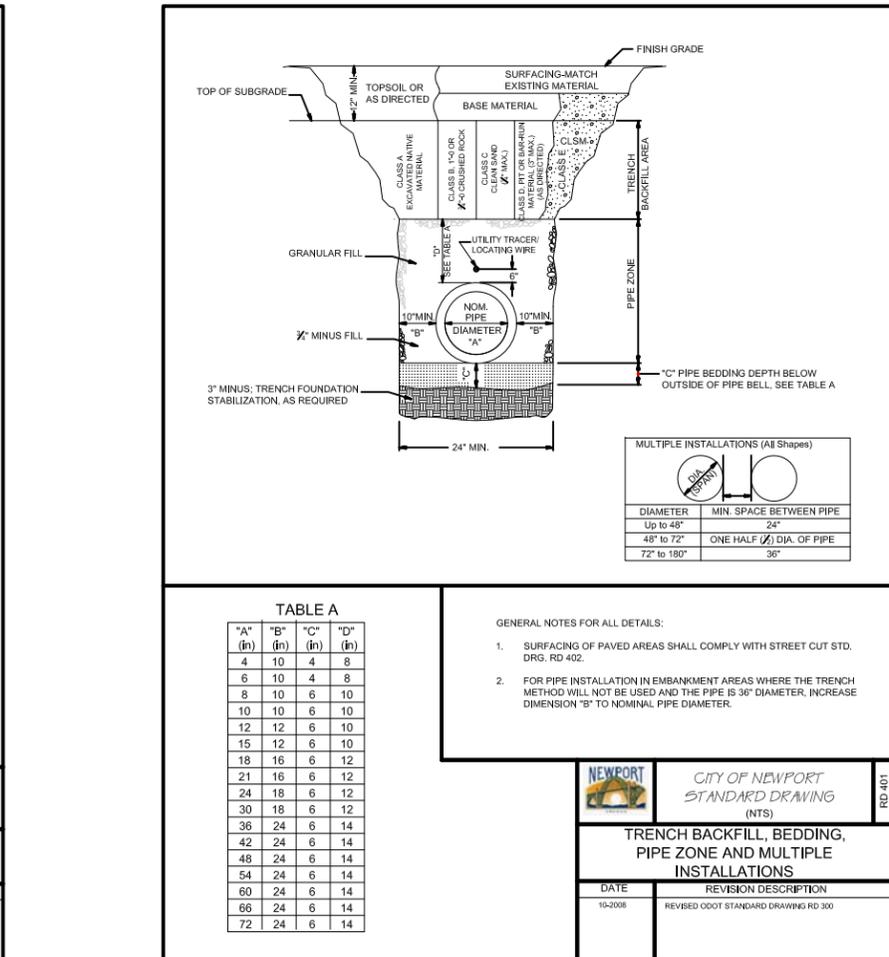
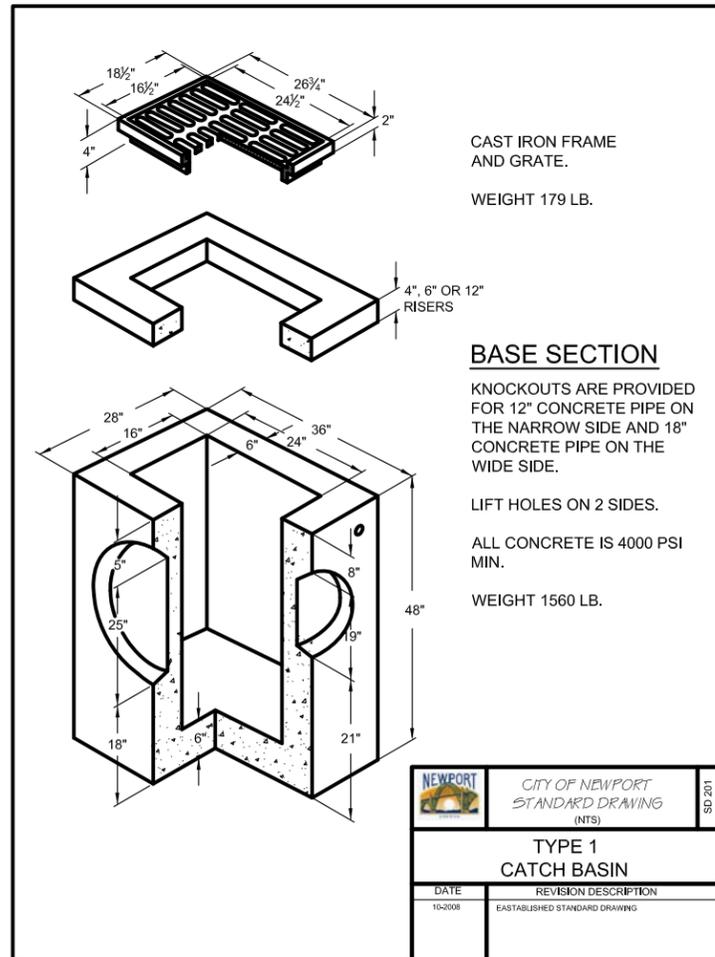
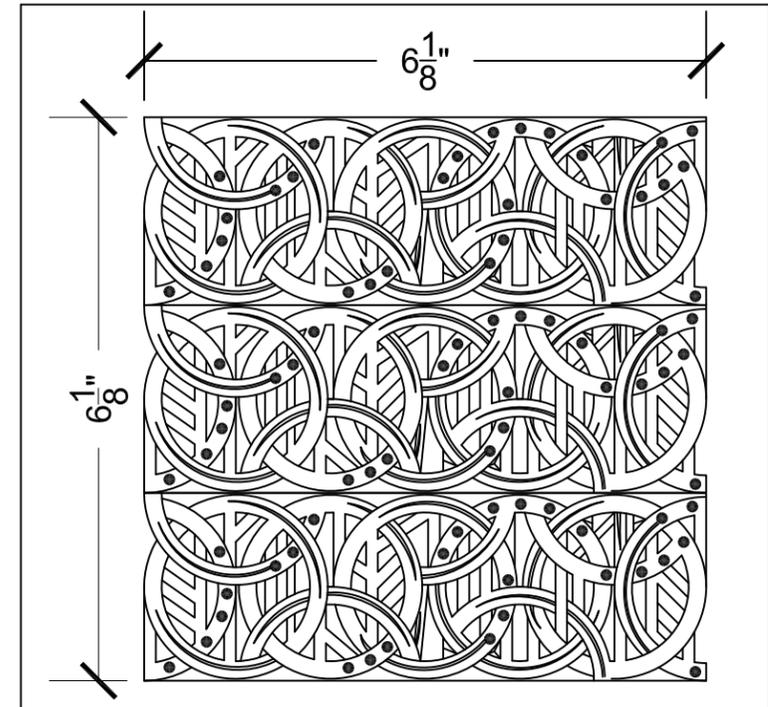
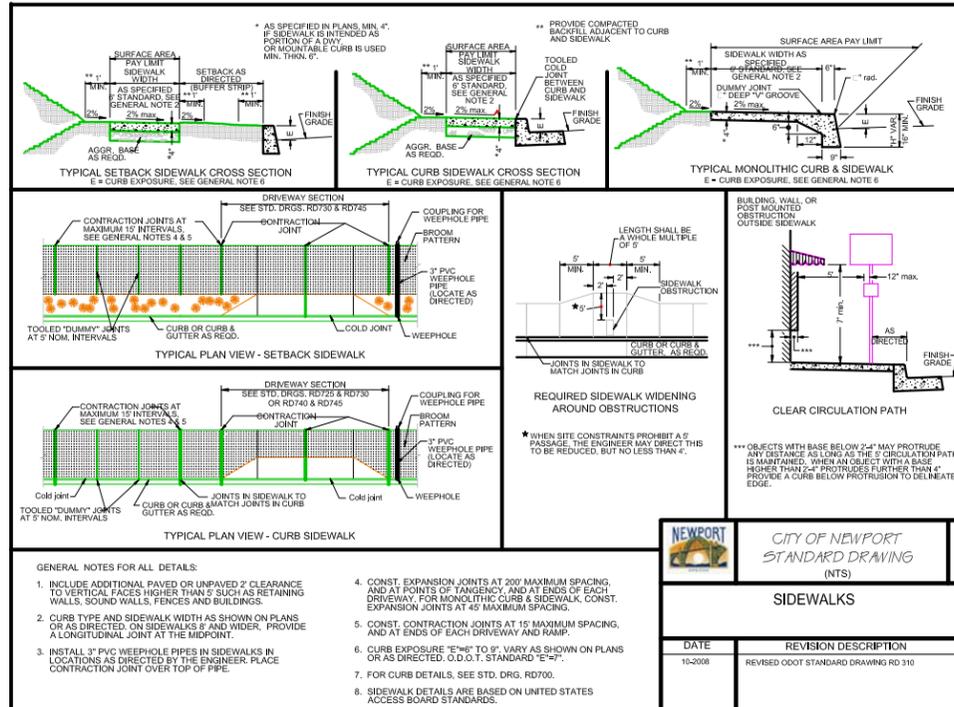
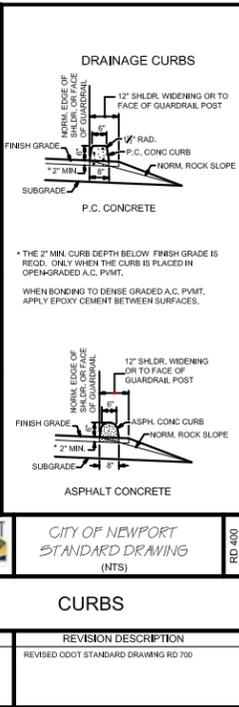
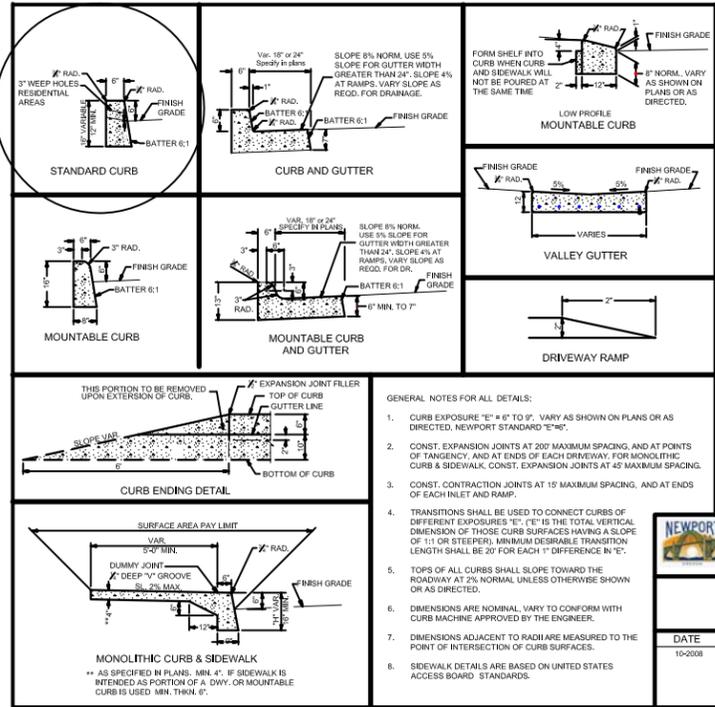
RETAINING WALLS  
DETAILS

DE-1

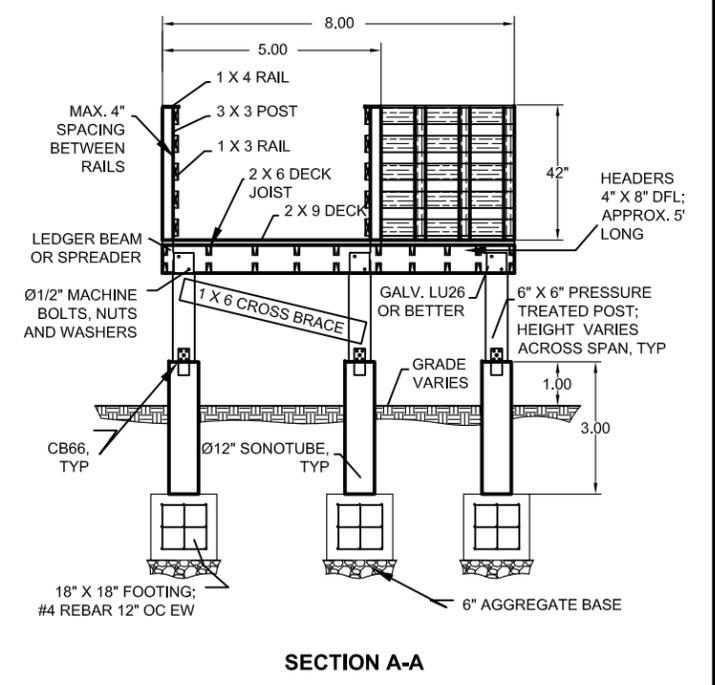
NO. 7 OF 10



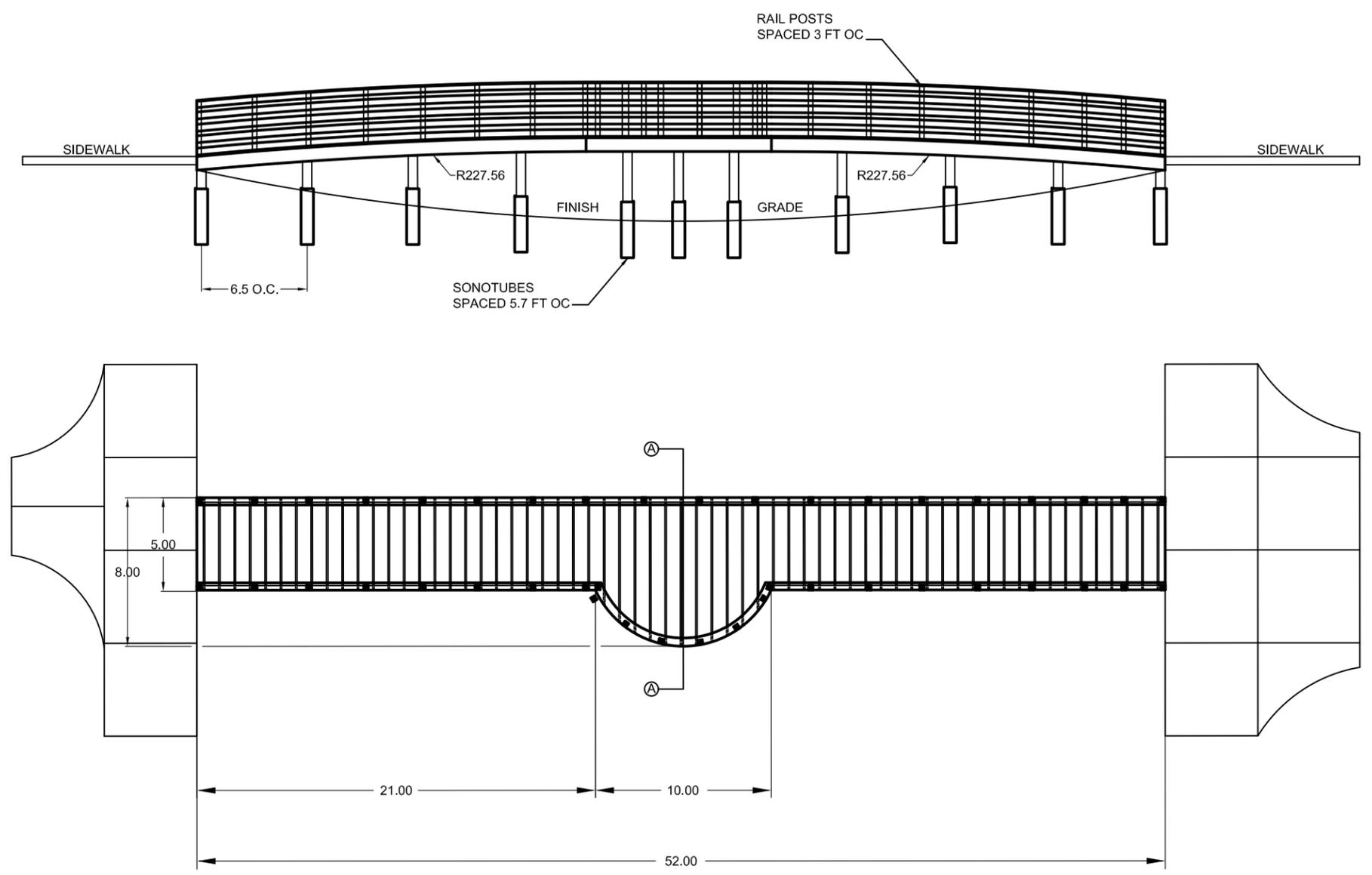
EXPIRES: 6/30/2012



NOTE  
ALL POSTS, RAILS, JOISTS,  
BEAMS AND DECK BOARDS  
TO BE PRESSURE TREATED  
WOOD.



SECTION A-A



COAST PARK  
CITY OF NEWPORT  
NEWPORT, OREGON

DATE: 4 OCT 2010  
DESIGN: GS  
DRAWING: MJR  
CHECKED: GS

VERT: DATE: DATE:  
SCALE: HORIZ 3/4" = 1"  
PROJECT #: REVISION BY: AS BUILT BY:

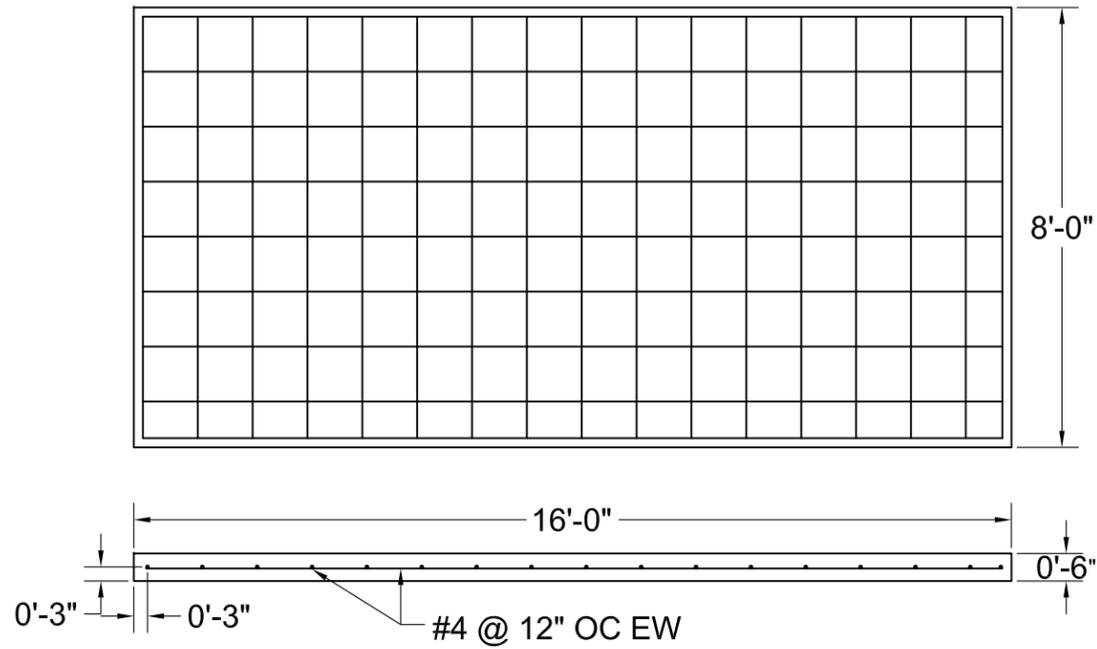


BRIDGE  
DETAILS

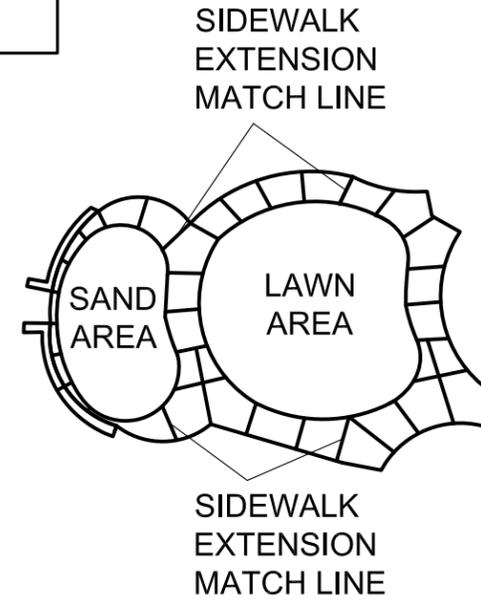
DE-3

NO. 9 OF 10

SHIP FOUNDATION

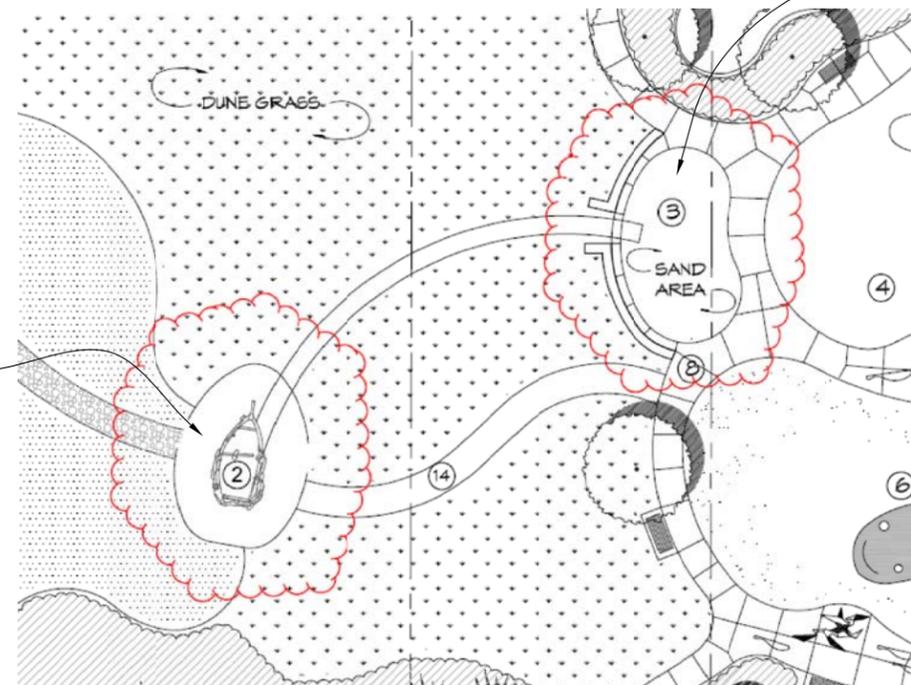


SAND AREA MAY SHIFT 35' TO 40' TO ACCOMMODATE SLIDE; SLIDE NEEDS MIN 25° ANGLE TO WORK. MAINTAIN DESIGN ELEVATION OF SAND AREA IN FINAL LOCATION.



SPECIAL SIGN, PROVIDED BY STATE. DIMENSIONS 12" W X 18" L. POST SIGN FACING COAST STREET.

CONFIRM LOCATION OF SHIP WITH ENGINEER



CONFIRM LOCATION OF SAND AREA WITH ENGINEER

COAST PARK  
CITY OF NEWPORT  
NEWPORT, OREGON

DATE: 4 OCT 2010  
DESIGN: GS  
DRAWING: MJR  
CHECKED: GS

VERT: . DATE: DATE:  
SCALE: HORIZ 3/4" = 1'  
PROJECT #: .  
REVISIONS BY: .  
AS BUILT BY: .



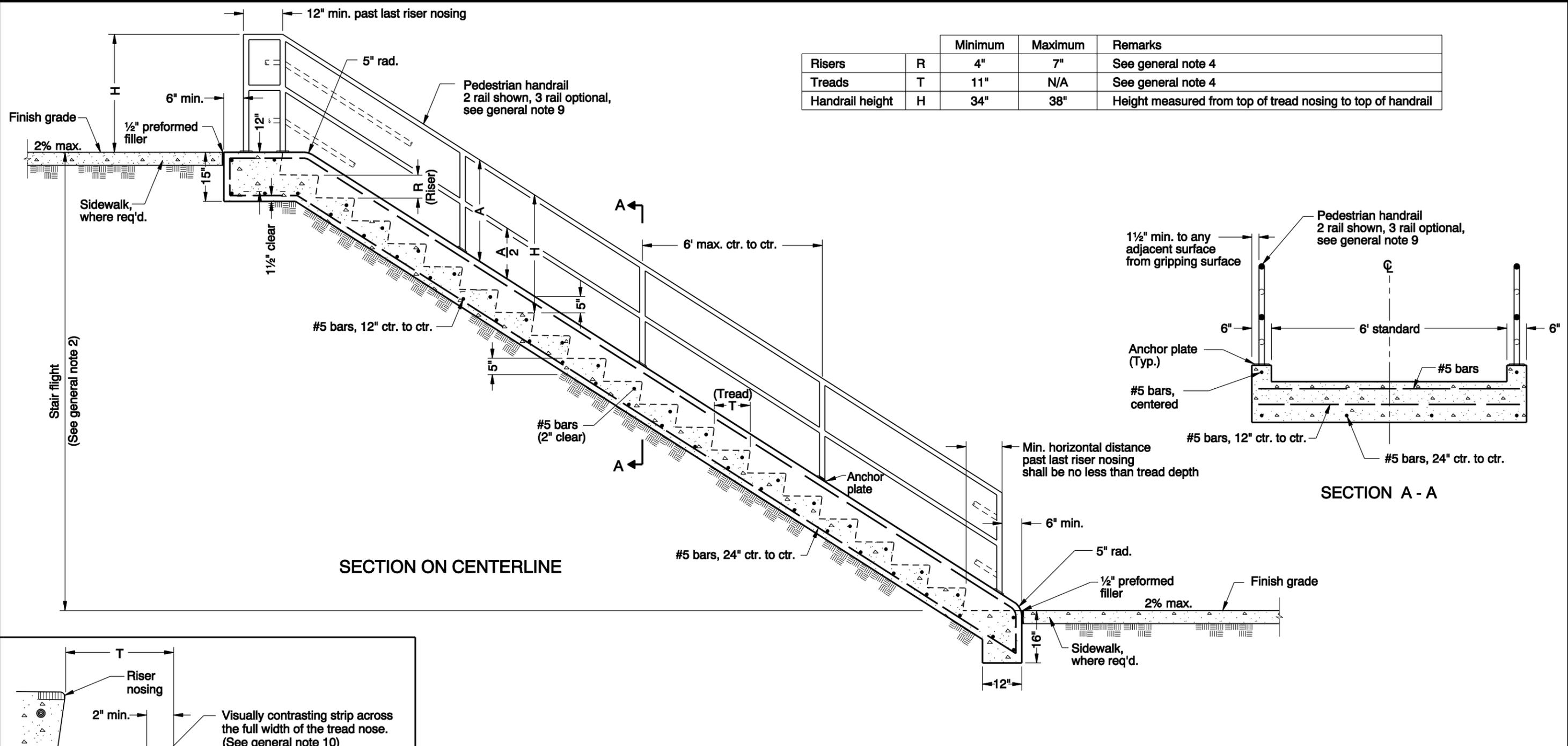
SHIP & SLIDE  
DETAILS

DE-4

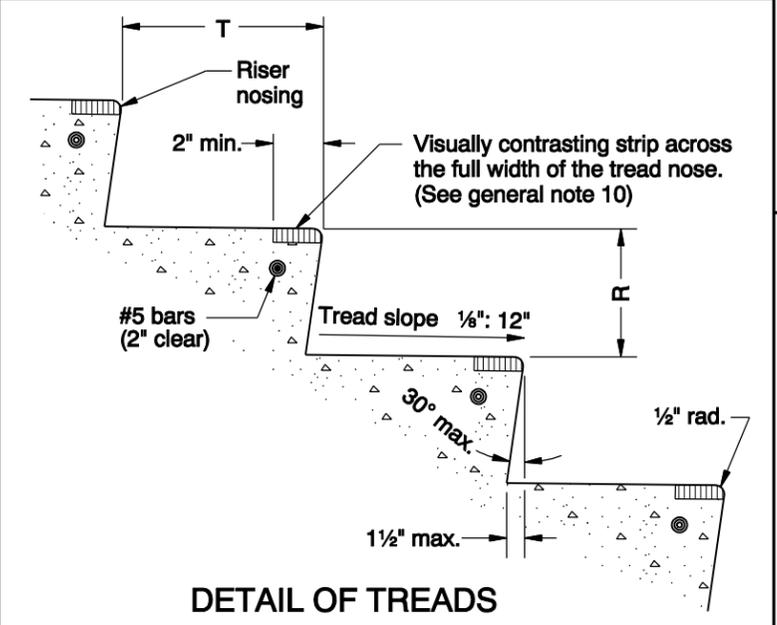
NO. 10 OF 10

rd120.dgn 30-JUN-2009

RD120



		Minimum	Maximum	Remarks
Risers	R	4"	7"	See general note 4
Treads	T	11"	N/A	See general note 4
Handrail height	H	34"	38"	Height measured from top of tread nosing to top of handrail



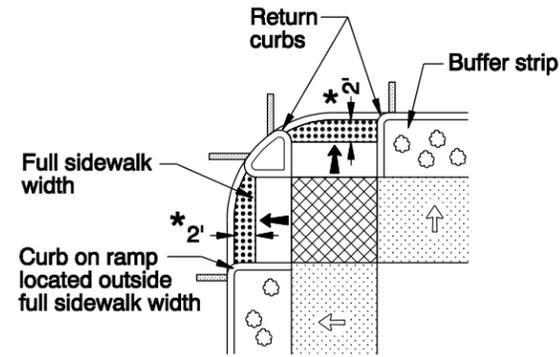
- GENERAL NOTES FOR ALL DETAILS:**
- Details are based on United States Access Board Standards.
  - Maximum vertical rise between finish grade of landings shall be 12'.
  - Number of steps varies. Round edges of steps and all other exposed edges to 1/2" radius.
  - All risers in a stair flight shall be the same height.  
All treads in a stair flight shall be the same depth.
  - Handrail height (H) to be constant within a stair flight.
  - All concrete shall be commercial grade concrete.
  - All reinforcing steel to be placed a minimum of 2" clear of nearest face of concrete unless otherwise shown or noted.
  - See Std. Drg. RD720 for sidewalk details.
  - See Std. Drgs. RD770 & RD771 for pedestrian handrail details.
  - Provide painted contrasting strip (color shall be safety yellow), or approved equal.

CALC. BOOK NO. N/A

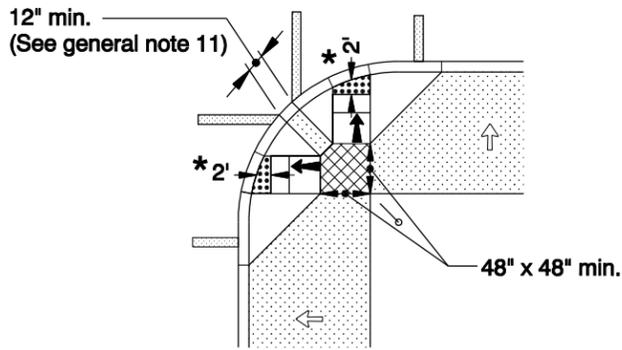
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

BASELINE REPORT DATE <u>29-JUN-2009</u>	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>CONCRETE STAIRWAY</b>	
2008	
DATE	REVISION DESCRIPTION
06-2009	REVISED DETAIL & NOTES

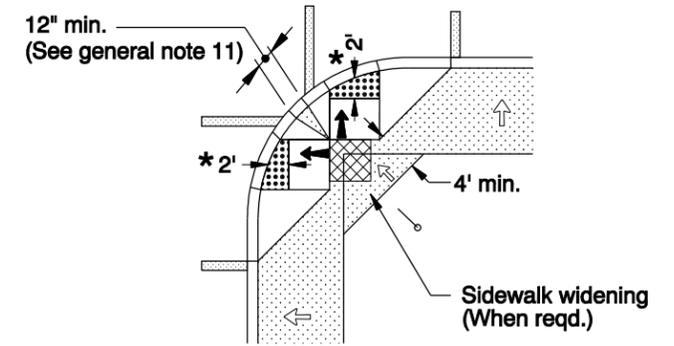
rd756.dgn 30-JUN-2009



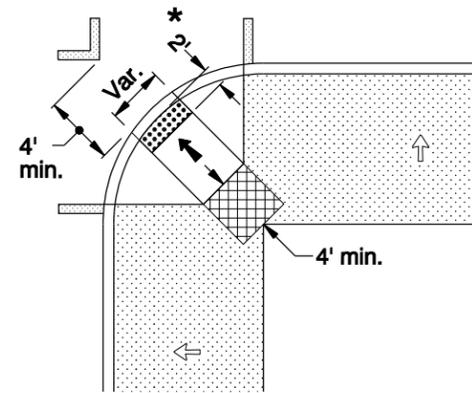
**OPTION A  
PERPENDICULAR RAMP WITH  
LANDSCAPED BUFFER STRIP**



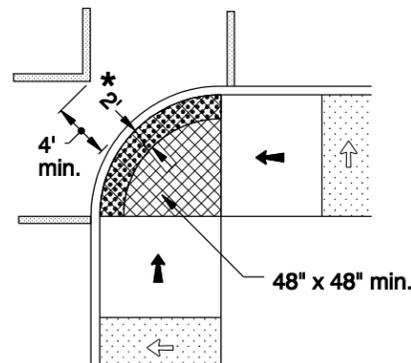
**OPTION B  
PERPENDICULAR RAMP  
(FOR WIDE SIDEWALKS)**



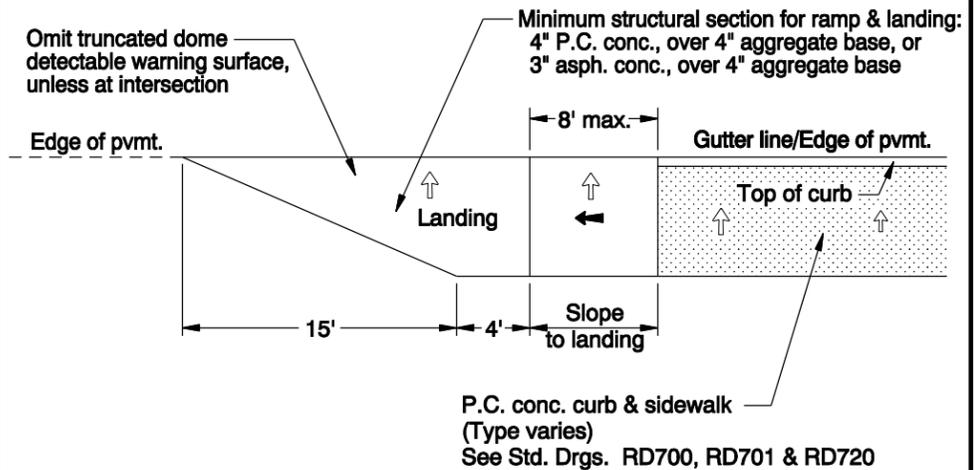
**OPTION C  
PERPENDICULAR RAMP  
(FOR NARROW SIDEWALKS)**



**OPTION D  
DIAGONAL RAMP  
(FOR WIDE SIDEWALKS)**  
Use in alterations only and when site constraints prohibit installing two ramps



**OPTION E  
DIAGONAL-PARALLEL RAMP  
(FOR SIDEWALK WIDTHS ≥ RADIUS)**  
Use in alterations only and when site constraints prohibit installing two ramps



**OPTION F  
SIDEWALK RAMP AND LANDING  
(FOR ENDS OF SIDEWALKS)**

- Marked or intended crossing location
- Slope 2% max.
- Slope 8.33% (1":12") max.
- Truncated dome detectable warning surface
- Landing Area (Minimum level area 48" x 48")  
For the purposes of this application, a 2% maximum slope (For drainage) is considered level
- \* 2' See general note 5

**GENERAL NOTES FOR ALL DETAILS:**

1. Sidewalk ramp details are based on United States Access Board Standards.
2. See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc. See Std. Drg. RD755 for sidewalk ramp details.
3. Tooled joints are required at all sidewalk ramp slope break lines.
4. Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
5. Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
6. Side flares that are not part of the path of travel may be any slope. Check the gutter flow depth to assure that the design flood does not overtop the back of sidewalk. If overtopping occurs place an inlet at upstream side or perform other approved design mitigation.

7. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
8. For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
9. Ramps for paths intersecting a roadway should be full width of path, excluding flares. When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 8' wide.
10. In alterations, curb ramp slope(s) may be 10% for a max. rise of 6", or 12.5% for a max. rise of 3".
11. When 2 curb ramps are immediately adjacent as in Options B & C, the curb exposure (e) between the adjacent side flares may range between 3" and full design exposure.
12. Only use options allowed by jurisdiction.

CALC. BOOK NO.   N/A  

BASELINE REPORT DATE   12-JUN-2009  

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS  
SIDEWALK RAMP PLACEMENT OPTIONS  
CURB RADII ≤ 15'**

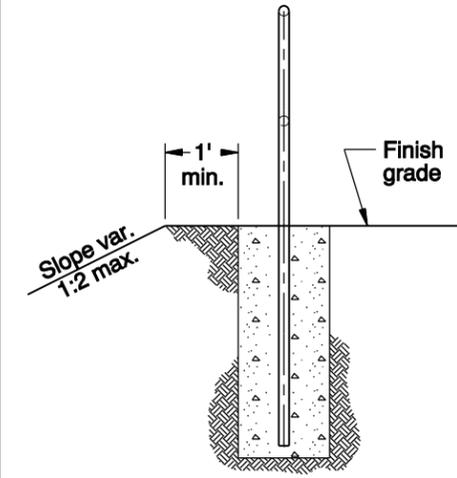
2008

DATE	REVISION	DESCRIPTION
06-2009	REVISED & ADDED NOTES	

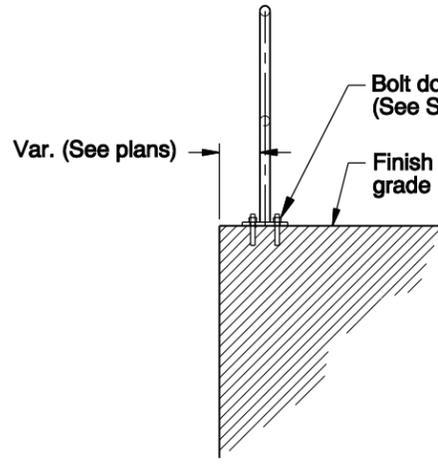
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

RD756

rd770.dgn 30-JUN-2009

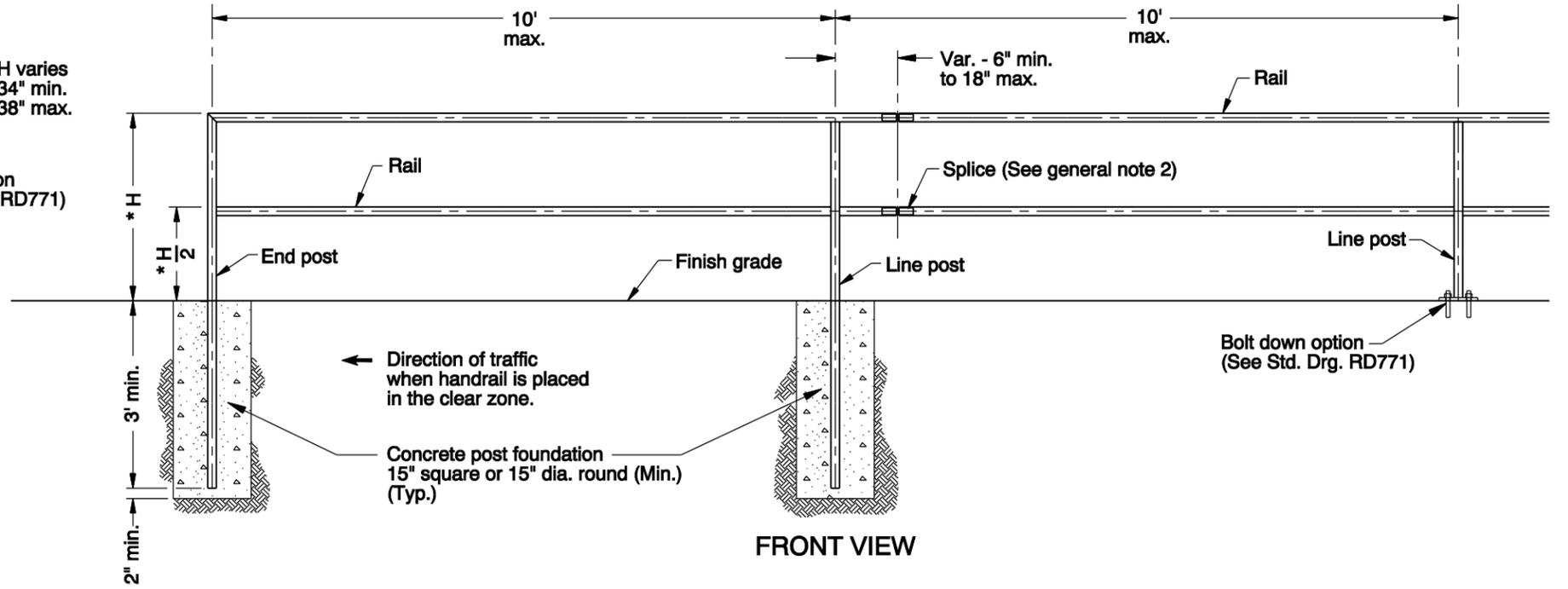


SIDE VIEW (ON GRADE)

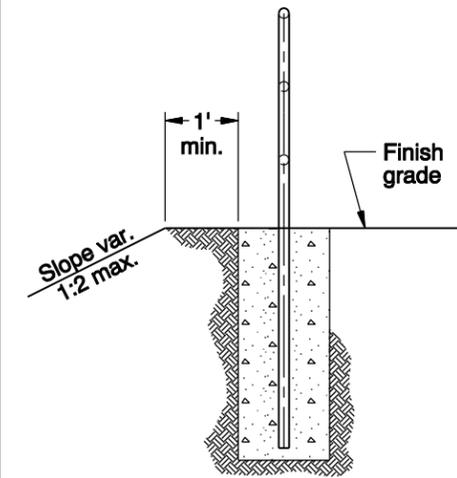


SIDE VIEW (ON STRUCTURE)  
(See general note 6)

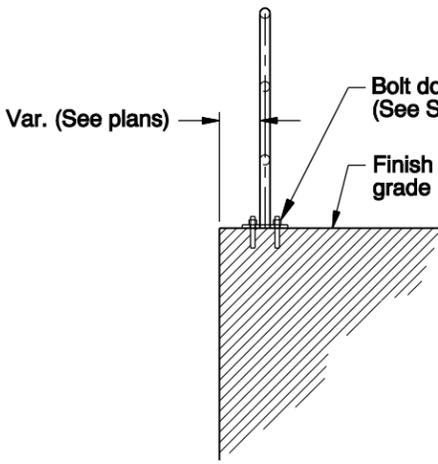
\* H varies  
34" min.  
38" max.



FRONT VIEW

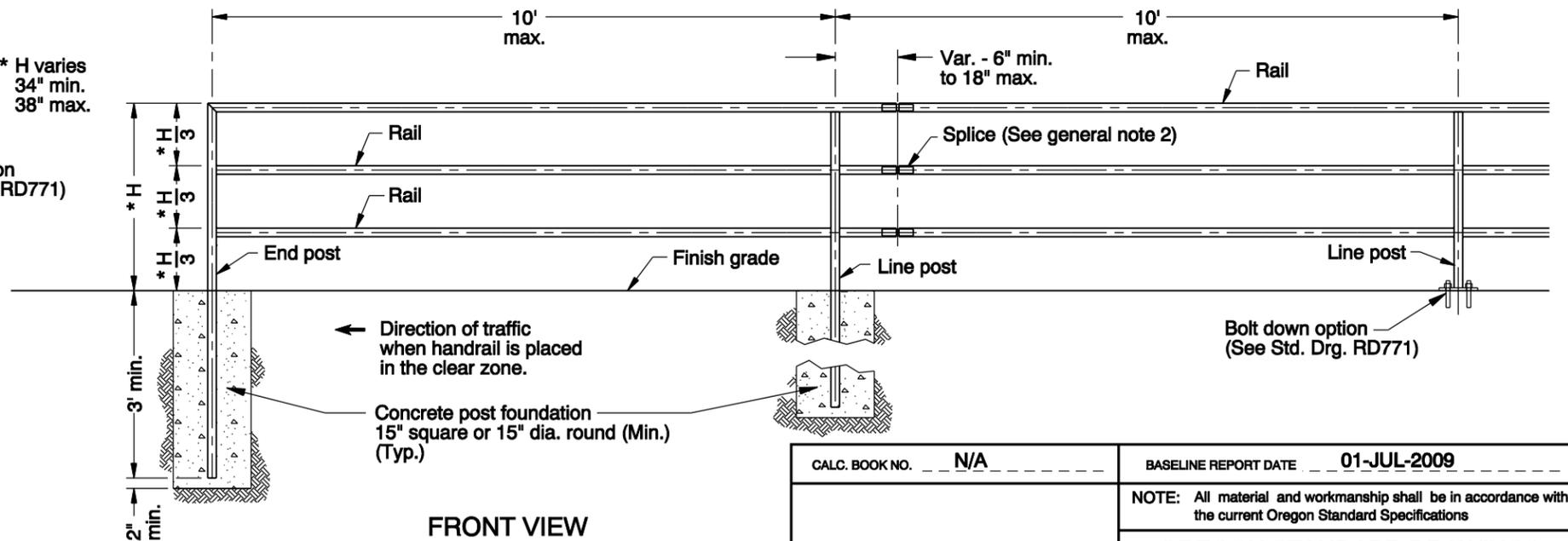


SIDE VIEW (ON GRADE)



SIDE VIEW (ON STRUCTURE)  
(See general note 6)

\* H varies  
34" min.  
38" max.



FRONT VIEW

GENERAL NOTES FOR ALL DETAILS:

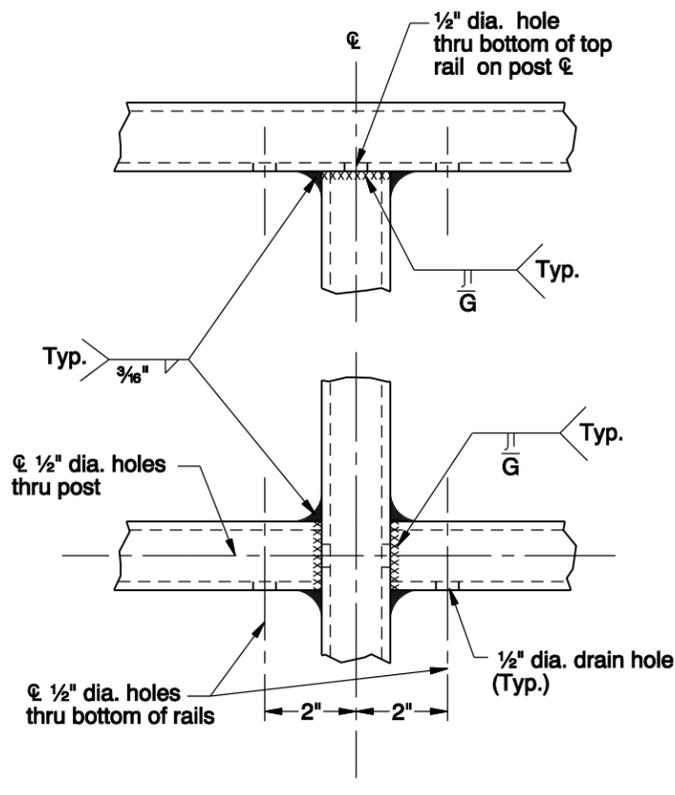
1. Handrail details are based on United States Access Board Standards.
2. See Std. Drg. RD771 for weld and splice details.
3. See Std. Drg. RD771 for anchor plate for bolt down option details.
4. Hot-dip galvanize all parts after fabrication.
5. See Std. Drg. RD771 for approved post and rail materials.
6. Structure varies, see plans.
7. Handrail height (H) shall be constant within a run.
8. All concrete shall be commercial grade concrete.
9. See Std. Drg. RD120 for concrete stairway.

CALC. BOOK NO. N/A		BASELINE REPORT DATE 01-JUL-2009	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
<b>OREGON STANDARD DRAWINGS</b>			
<b>PEDESTRIAN HANDRAIL</b>			
2008			
DATE	REVISION DESCRIPTION		
06-2009	REVISED DETAILS & NOTES		

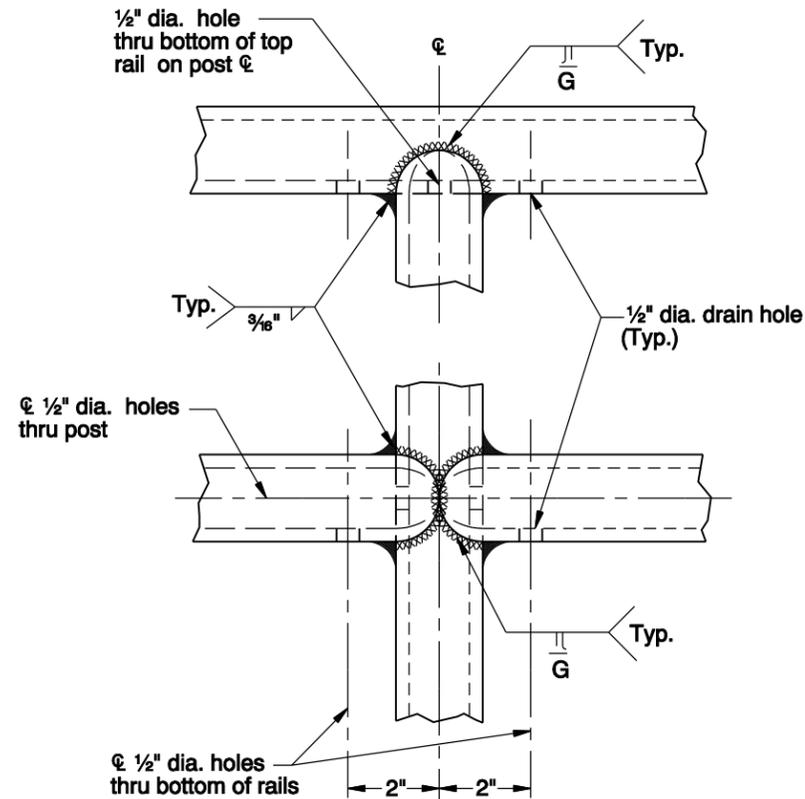
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RD770

rd771.dgn 30-JUN-2009



**WELD DETAILS FOR STEEL TUBING**



**WELD DETAILS FOR STEEL PIPE**

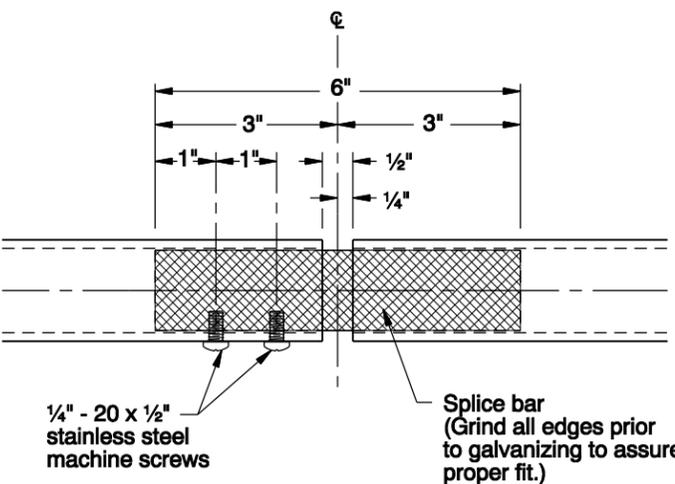
**MATERIAL TABLES**

STEEL PIPE POST & RAIL MEMBERS				ROUND SPLICE BAR
NOM. DIA.	SCH.	O.D.	I.D.	O.D.
1"	5	1.315"	1.185"	1"
	10	1.315"	1.097"	
	40	1.315"	1.049"	
1 1/4"	5	1.660"	1.530"	1 1/4"
	10	1.660"	1.442"	
	40	1.660"	1.380"	
1 1/2"	5	1.900"	1.770"	1 1/2"
	10	1.900"	1.682"	
	40	1.900"	1.610"	

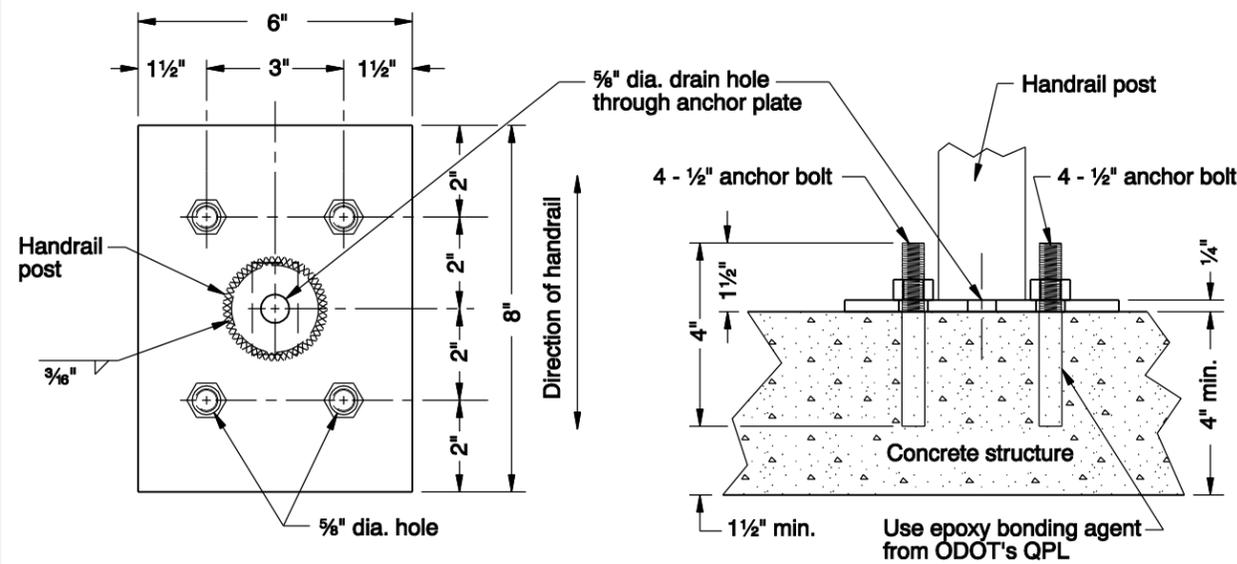
RECTANGULAR STRUCTURAL STEEL TUBING POST & RAIL MEMBERS		RECTANGULAR SPLICE BAR
Outside Dimensions	Wall Thickness	Outside Dimensions
2" x 1"	1/8"	3/4" x 3/4"
1 1/4" x 1 1/4"	1/8"	3/4" x 3/4"
1 1/2" x 1 1/2"	1/8"	1" x 1"
	3/16"	3/4" x 3/4"

**GENERAL NOTES FOR ALL DETAILS:**

- Details are based on United States Access Board Standards.
- Select materials from table. Posts and rails shall be identical material. Structural steel tubing shall conform to ASTM specification A500, grade B. Rectangular material shall have the wider dimension on the top of the rail.
- Posts shall be vertical. The top rail shall be continuous over a minimum of two posts.
- On structure, the railing shall conform to the vertical alignment of the structure. Rails shall have a splice in the post space occurring at expansion joints.
- On grade, rails shall have splices at intervals not to exceed 100'.
- Hot-dip galvanize all parts after fabrication.
- See Std Drg. RD770 for details not shown.
- See Std Drg. RD120 for concrete stairway.



**SPLICE DETAIL**



**PLAN VIEW**

**SIDE VIEW**

**ANCHOR PLATE FOR BOLT DOWN OPTION**

CALC. BOOK NO. N/A

BASELINE REPORT DATE 01-JUL-2009

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

**PEDESTRIAN HANDRAIL DETAILS**

2008

DATE	REVISION DESCRIPTION
06-2009	ADDED & REVISED NOTES

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

RD771