

WOODHAVEN PARK PHASE 2

SHERWOOD, OREGON

PROJECT CONTACTS:

OWNER

CITY OF SHERWOOD
COMMUNITY SERVICES DEPARTMENT
22580 SW PINE ST.
SHERWOOD OR. 97140
PHONE - 503.625.5522

PROPERTY INFORMATION

STREET LOCATION: SW SUNSET BLVD. AT SW PINEHURST DR.
TAX LOT AND MAP NO.: TL 1800 AND TL1900; MAP 25 1 31 DB
EXISTING USE: NEIGHBORHOOD PARK
EXISTING ZONE DESIGNATION: LDR-PUD
SITE AREA: 6.19 AC.

ENGINEER / LANDSCAPE ARCHITECT / SURVEYOR

HARPER HOUF PETERSON RIGHELLIS, INC.
205 SE SPOKANE STREET, SUITE 200
PORTLAND, OR. 97202 - 503.221.1131
BEN AUSTIN, PE PROJECT MANAGER/ENGINEER
SCOTT BANKER, RLA
JEFFERY CREEL, RLA
JOHN CAMPELL, PLS



VICINITY MAP
NOT TO SCALE

SHEET INDEX

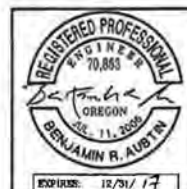
- C1.0 - COVER SHEET
 - C2.0 - EXISTING CONDITIONS
 - C3.0 - OVERALL SITE PLAN
 - C3.1 - PLAYGROUND PLAN
 - C4.0 - GRADING AND PAVING PLAN
 - C4.1 - PEDESTRIAN PATH PROFILE
 - ~~C4.2 - PEDESTRIAN BRIDGE PROFILE~~
 - ~~C4.3 - BRIDGE DETAILS~~
 - C4.4 - PARKING LOT GRADING
 - C4.5 - PLAYGROUND GRADING
 - C5.0 - SITE UTILITY PLAN
 - C6.0 - PLAYGROUND DETAIL - STAIRS
 - C6.1 - PLAYGROUND DETAIL - SLIDE
 - C6.2 - PLAYGROUND DETAIL - ROCK WALL
 - C6.3 - ROMTEC PAVILLION DETAIL 1 OF 3
 - C6.4 - ROMTEC PAVILLION DETAIL 2 OF 3
 - C6.5 - ROMTEC PAVILLION DETAIL 3 OF 3
 - C6.6 - STANDARD DETAILS
 - C6.7 - CITY OF SHERWOOD STANDARD DETAILS - 1 OF 3
 - C6.8 - CITY OF SHERWOOD STANDARD DETAILS - 2 OF 3
 - C6.9 - CITY OF SHERWOOD STANDARD DETAILS - 3 OF 3
 - C7.0 - SITE SECURITY AND I.T.
 - L1.0 - OVERALL PARK PLANTING - KEY MAP
 - L1.1 - PARK PLANTING PLAN
 - L1.2 - BUTTERFLY GARDEN AND EAST SIDE PLANTING PLAN
 - L1.3 - CWS STORMWATER SWALE PLANTING PLAN
 - L2.0 - LANDSCAPE DETAILS
 - L2.1 - LANDSCAPE DETAILS
 - L3.0 - IRRIGATION DEMO PLAN
 - L3.1 - IRRIGATION DEMO PLAN
 - L3.2 - IRRIGATION PLAN
 - L3.3 - IRRIGATION PLAN
 - L3.4 - IRRIGATION DETAILS
-
- EC1 - ESC - COVER SHEET
 - EC3 - ESC - GRADING AND UTILITIES
 - EC2 - ESC - CLEARING AND DEMOLITION
 - EC4 - ESC - DETAILS

DELETED FROM PROJECT PHASE
MATERIAL CHANGE PROJECT PHASE

BID SET

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016

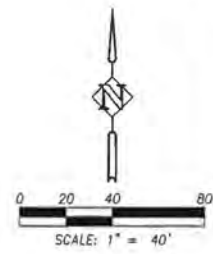
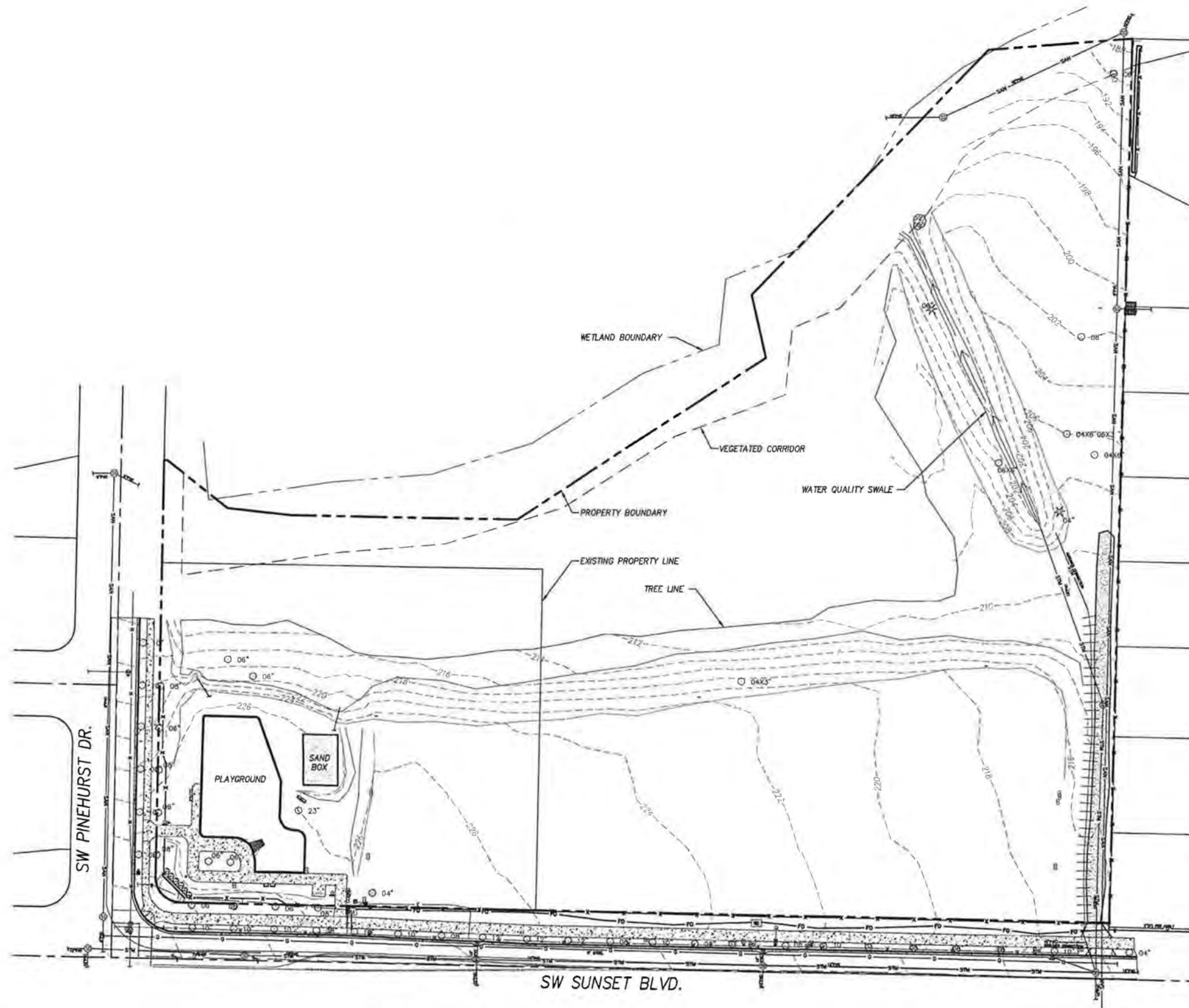


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COVER SHEET
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO.	C1.0
JOB NO.	SHR-13

P:\SHR City of Sherwood\SHR-13\Woodhaven Park\SHR-13-DWG\SSHEETS\SHR13-C2_0.dwg



BID SET

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DATE:	APRIL 2016						
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REVISIONS							

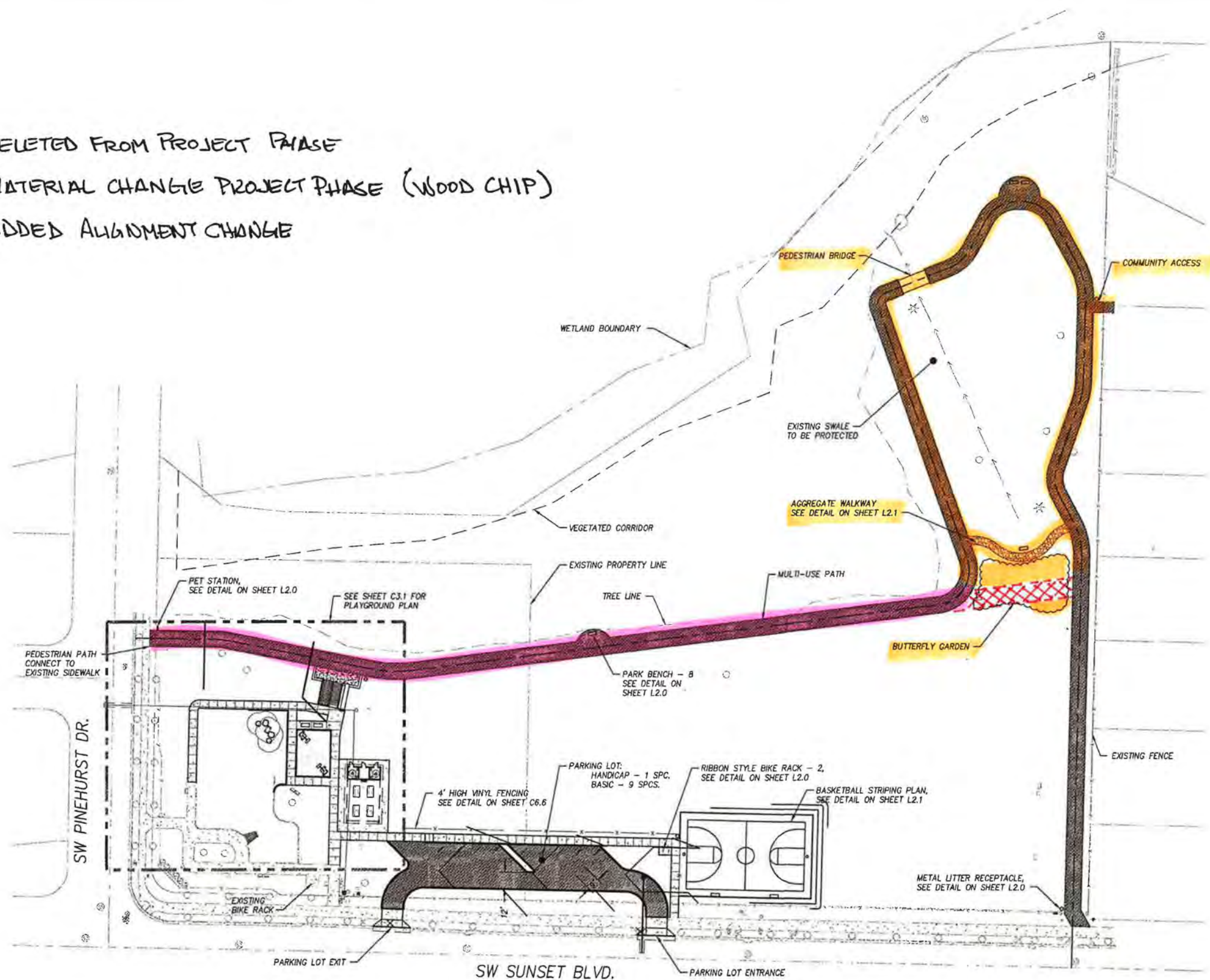


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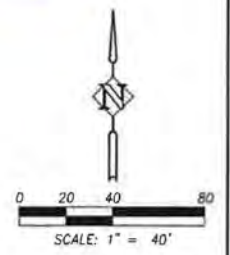
EXISTING CONDITIONS
WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO.
C2.0
 JOB NO.
 SHR-13

- DELETED FROM PROJECT PHASE
- MATERIAL CHANGE PROJECT PHASE (WOOD CHIP)
- ADDED ALIGNMENT CHANGE



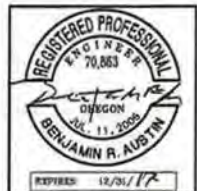
- LEGEND**
- VEGETATED CORRIDOR
 - EXISTING TREE LINE
 - METAL LITTER RECEPTACLE
 - PARK BENCH / TABLE
 - RIBBON STYLE BIKE RACK
 - PET STATION
 - PLAYGROUND EQUIPMENT
 - PEDESTRIAN / PARKING AC
 - CONCRETE SIDEWALK
 - AGGREGATE PATH



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CHECKED: BRA	

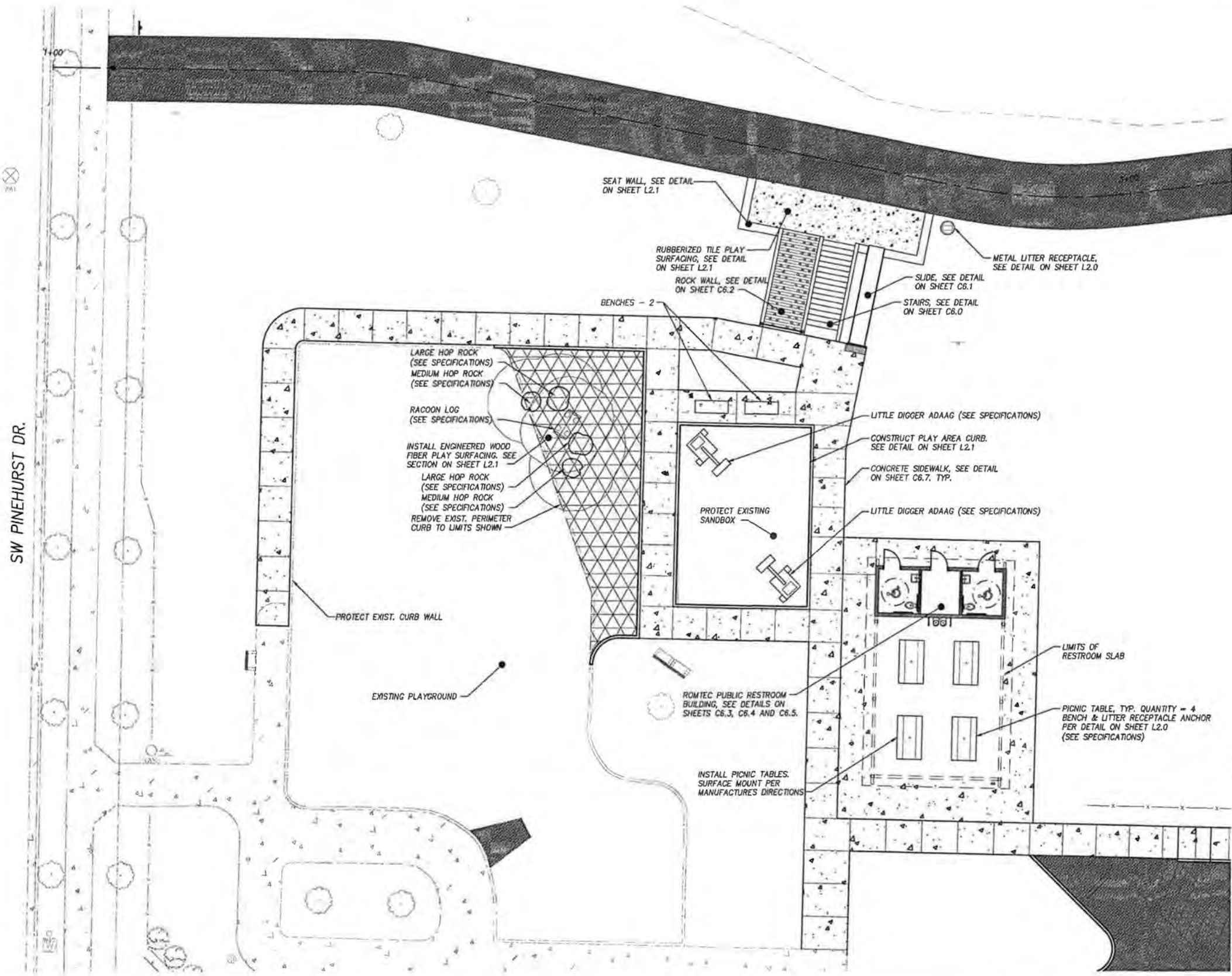


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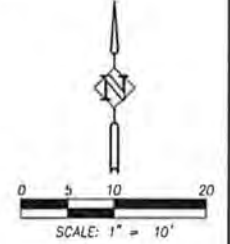
**OVERALL SITE PLAN
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON**

SHEET NO. **C3.0**
 JOB NO. SHR-13

P:\SHR\City of Sherwood\SHR-13 (Woodhaven Park)\SHR13-DWG\SHEETS\SHR13-C4_0.dwg



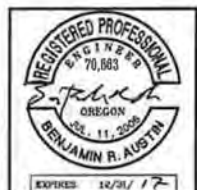
NOTE:
COORDINATE FINAL ELEVATION OF
PLAYGROUND EQUIPMENT WITH ENGINEER.



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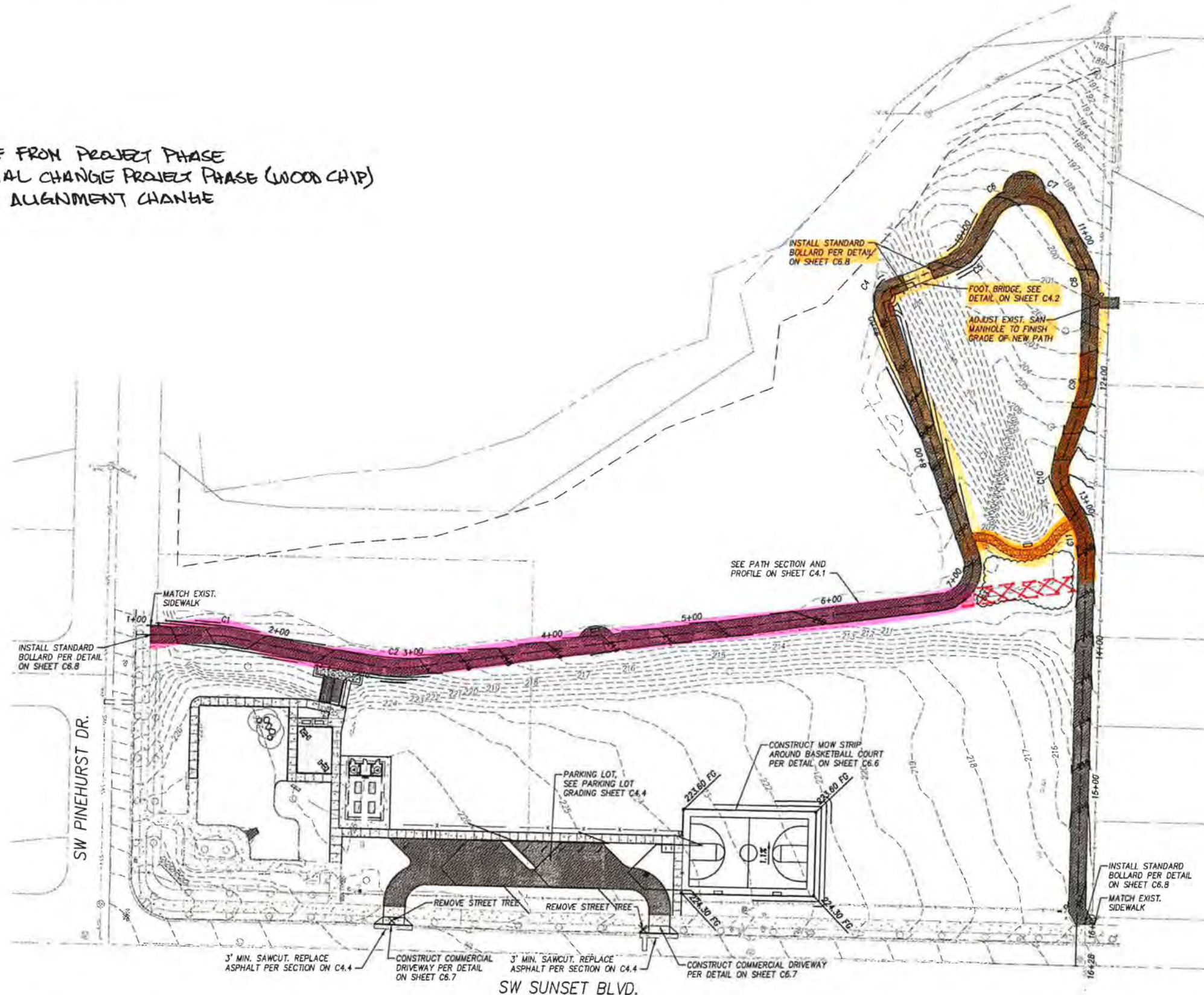
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**PLAYGROUND PLAN
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON**

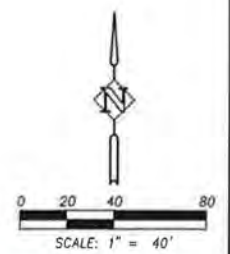
SHEET NO.	C3.1
JOB NO.	SHR-13

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DELETE FROM PROJECT PHASE
 MATERIAL CHANGE PROJECT PHASE (WOOD CHIP)
 ADDED ALIGNMENT CHANGE



CURVE DATA			
CURVE #	RADIUS	LENGTH	DELTA
C1	50.00	9.10'	10.4270°
C2	100.00	32.31'	18.5146°
C3	25.00	44.65'	102.3337°
C4	8.00	12.21'	67.4638°
C5	30.00	20.74'	39.6095°
C6	25.00	26.89'	61.6205°
C7	25.00	28.71'	61.2189°
C8	50.00	26.25'	30.0813°
C9	50.00	15.67'	17.9558°
C10	25.00	20.58'	47.1676°
C11	50.00	25.49'	29.2119°



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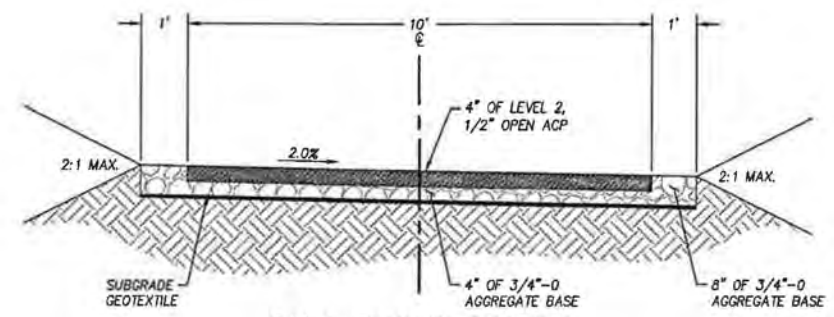
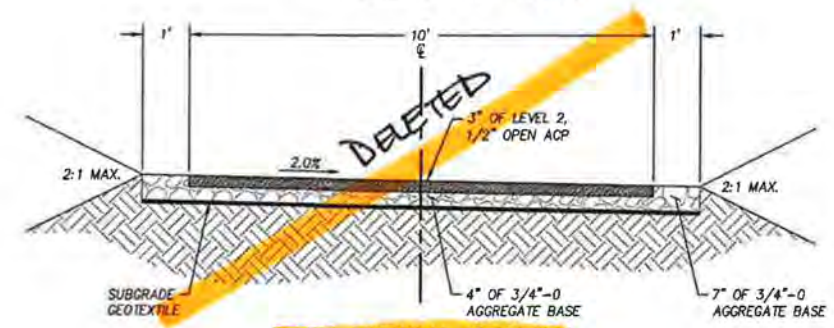
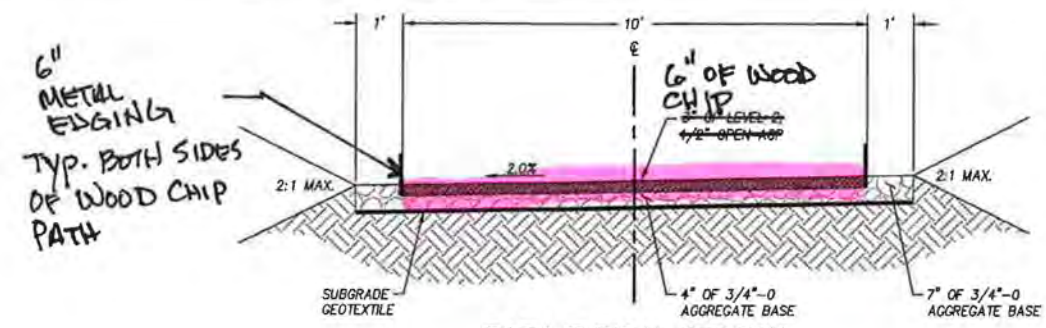
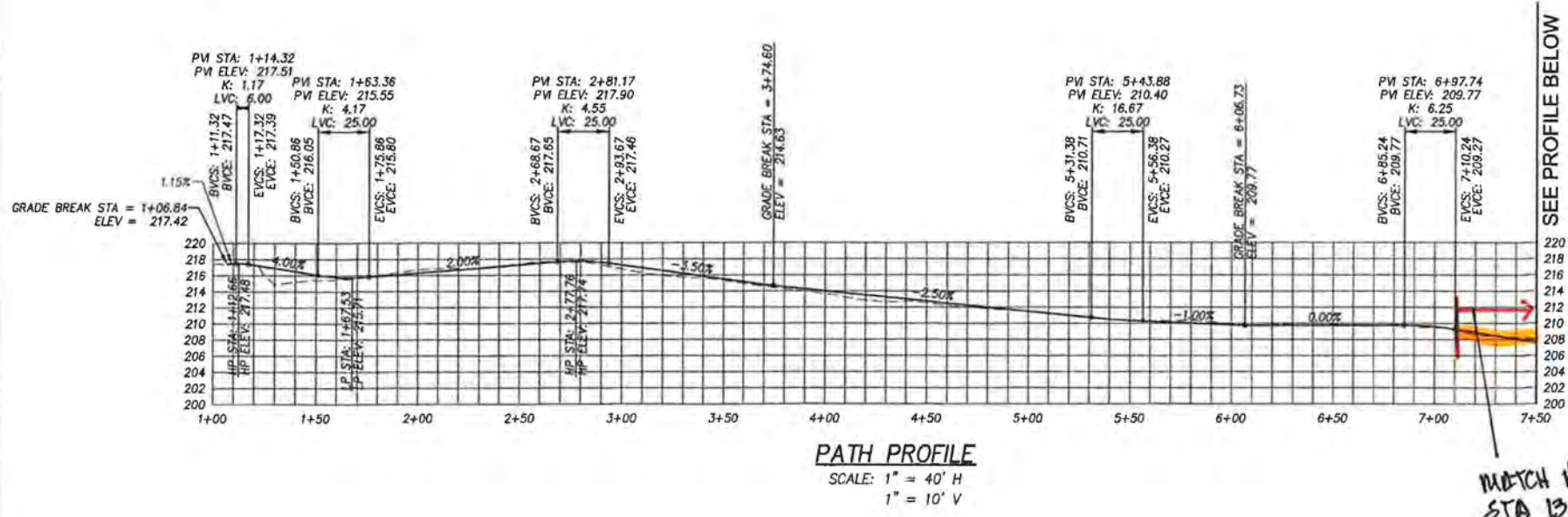


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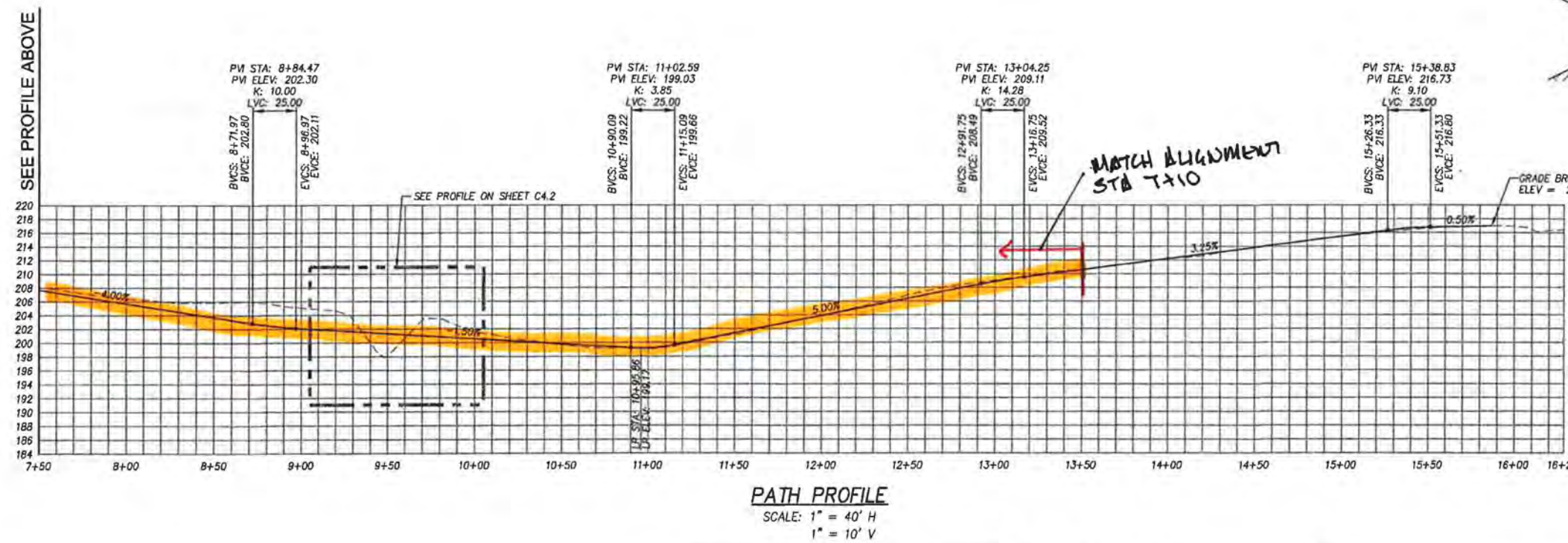
GRADING AND PAVING PLAN
WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO.	C4.0
JOB NO.	SHR-13

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DELETE FROM PROJECT PHASE
 MATERIAL CHANGE PROJECT PHASE
→ ADDED ALIGNMENT CHANGE



MATCH ALIGNMENT STA 7+10

MATCH ALIGNMENT STA 13+50

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PEDESTRIAN PATH PROFILE
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

BID SET

SHEET NO. **C4.1**

JOB NO. SHR-13

GENERAL:

- THESE STRUCTURAL NOTES SUPPLEMENT THE SPECIFICATIONS. ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND ANY SITE CONDITIONS SHALL BE REPORTED IN A TIMELY MANNER TO THE ARCHITECT/ENGINEER DESIGN TEAM, WHO SHALL RESPOND TO ANY DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S OWN RISK.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND CONSTRUCTION METHODS, TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED FOR THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL ERECTION BRACING, FORM WORK, AND TEMPORARY SHORING REQUIRED FOR THE WORK.
- THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THE STRUCTURAL NOTES TO THE EXTENT SHOWN.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS AND IN THE FIELD. COORDINATE LOCATIONS OF OPENINGS THROUGH FLOOR, ROOFS AND WALLS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PLANS. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.
- DETAILS SHOWN ON THE DRAWINGS ARE INTENDED TO APPLY AT ALL SIMILAR CONDITIONS AND LOCATIONS.
- DO NOT SCALE INFORMATION FROM STRUCTURAL DRAWINGS.
- UNLESS OTHERWISE NOTED, ALL MATERIAL AND DESIGN SPECIFICATIONS CITED HEREIN SHALL CONFORM TO THE MOST RECENTLY ADOPTED SPECIFICATION OR CODE.
- ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR SHALL BE APPLIED, PLACED, ERECTED OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS SUBJECT TO REVIEW BY THE ARCHITECT AND ENGINEER.

DESIGN CODE:

- 2014 OREGON STRUCTURAL SPECIALTY CODE
- ASCE 7-10
- ALL REFERENCE TO OTHER CODES AND STANDARDS (ACI, ASTM, ETC...) SHALL BE PER THE LATEST OR MOST CURRENT EDITION AVAILABLE.
- DESIGN LOADS:
 - PEDESTRIAN BRIDGE DECK (LIVE LOAD) 100 PSF
 - WIND 120 MPH, EXPOSURE C, Risk CATEGORY II
 - SEISMIC DESIGN CATEGORY D, SITE CLASS D
R=6.5, S1=0.419, Sde=0.704, Sd1=0.442

FOUNDATIONS:

- MAXIMUM DESIGN SOIL BEARING PRESSURE = 1,500 PSF, ASSUMED
- FOUNDATIONS SHALL BE FOUNDED ON FIRM, UNDISTURBED SOIL OR ON APPROVED STRUCTURAL FILL
- STRUCTURAL FILL SHALL CONSIST OF CLEAN WELL-GRADED SAND, SAND AND GRAVEL, OR CRUSHED ROCK.
- THE STRUCTURAL FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8" IN THICKNESS AND THOROUGHLY COMPACTED TO A DENSE, NON-YIELDING STATE.
- STRUCTURAL FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS OBTAINED BY ASTM MODIFIED PROCTOR.
- ALL FOUNDATIONS SHALL BE A MINIMUM OF 1'-6" BELOW FINAL GRADES OR 1'-0" BELOW EXISTING GRADE, WHICHEVER IS LOWER.
- ALL DISTURBED SOIL SHALL BE REMOVED BY HAND OPERATION FROM FOUNDATION EXCAVATIONS TO NEAT LINES AND REPLACED WITH ENGINEERED FILL IF NECESSARY.
- PLACEMENT OF ALL FILL SHALL BE OBSERVED AND TESTED FOR RELATIVE COMPACTION BY A QUALIFIED TECHNICIAN AS APPROVED BY THE ENGINEER OF RECORD.

STRUCTURAL STEEL:

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
- ALL FABRICATION, ERECTION AND IDENTIFICATION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS.
- ALL WELDING SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDERS SHALL BE CERTIFIED UNDER AWS SPECIFICATIONS.
- WELDS SHALL BE MADE WITH E70 SERIES ELECTRODES UNLESS OTHERWISE NOTED. WELD TESTING AND INSPECTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE AWS D1.1 AND AISC.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH MACHINE BOLTS (M.B.) CONFORMING TO ASTM A307.
- ALL STEEL EXPOSED TO WEATHER, MOISTURE, SOIL, OR AS NOTED SHALL BE HOT DIP GALVANIZED PER ASTM A-123 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.

GLUE LAMINATED MEMBERS:

- ALL GLUE LAMINATED TIMBER BEAMS SHALL BE DOUGLAS FIR GRADE 24F-V4 AT ALL SIMPLE SPAN BEAMS AND GRADE 24F-V8 AT ALL CANTILEVER AND CONTINUOUS SPAN BEAMS, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- ALL GLUE LAMINATED TIMBER SHALL BE FABRICATED IN ACCORDANCE WITH AITC 117 MANUFACTURING. USING DF LUMBER AND WATERPROOFING ADHESIVE. EACH MEMBER SHALL BEAR AN AITC IDENTIFICATION MARK AND BE ACCOMPANIED BY AN AITC CERTIFICATE OF CONFORMANCE.
- GLUE LAMINATED TIMBER BEAMS SHALL HAVE CAMBER AS INDICATED ON THE DRAWINGS.
- ALL GLUE LAMINATED MEMBERS SHALL BE NOTCHED, SHAPED AND FINISHED AS PER PLANS AND SPECIFICATIONS
- SEE SPECIFICATIONS FOR FINISH AND PROTECTION.

SAWN FRAMING LUMBER:

- ALL SAWN LUMBER SHALL BE S4S, GRADED IN ACCORDANCE WITH WCLB RULES #17, OF THE FOLLOWING GRADES:
 - STUD, PLATES, HEADERS, BLOCKING = DF-L No. 2
 - 2x & 4x BEAMS = DF-L No. 2
 - 6x BEAMS, POSTS = DF-L No. 1
- ALL 2x LUMBER SHALL BE S-DRY, U.N.O.
- PROVIDE PRESSURE TREATED (P.T.) LUMBER AT ALL MEMBERS IN CONTACT WITH CONCRETE OR MASONRY.

PRESSURE TREATED (P.T.) LUMBER:

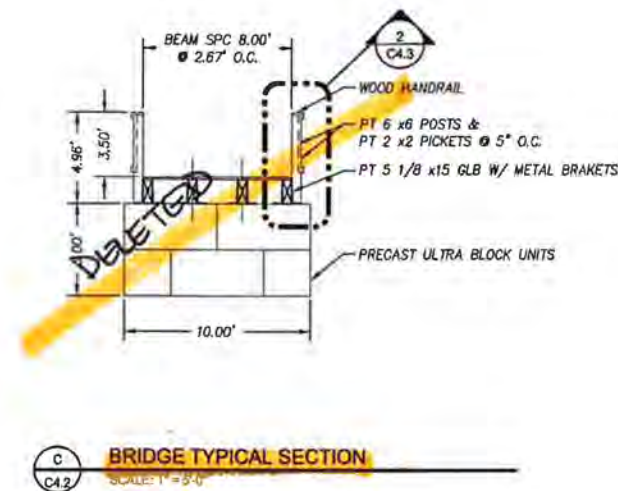
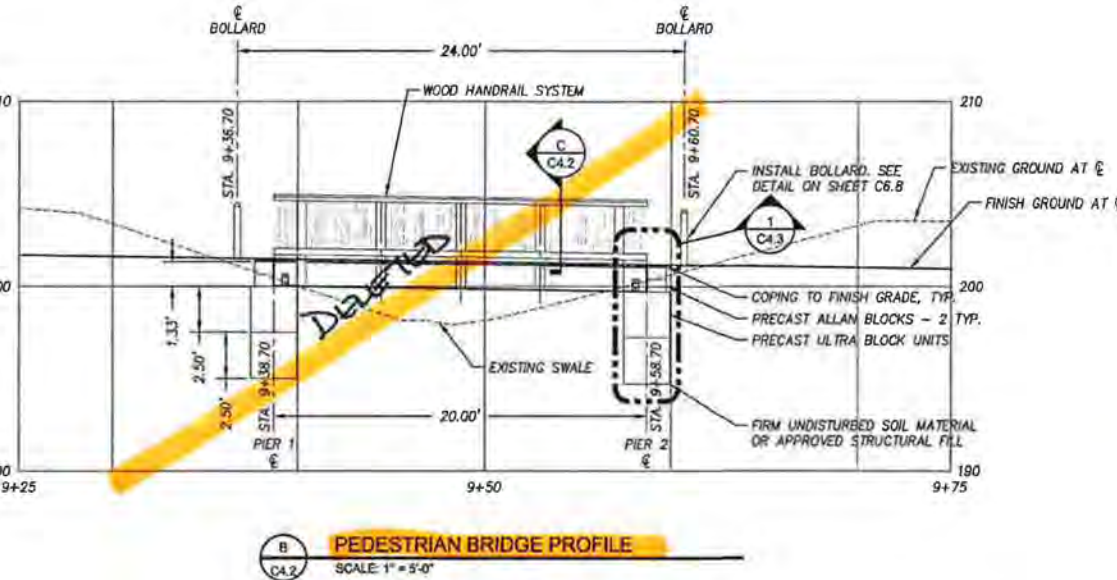
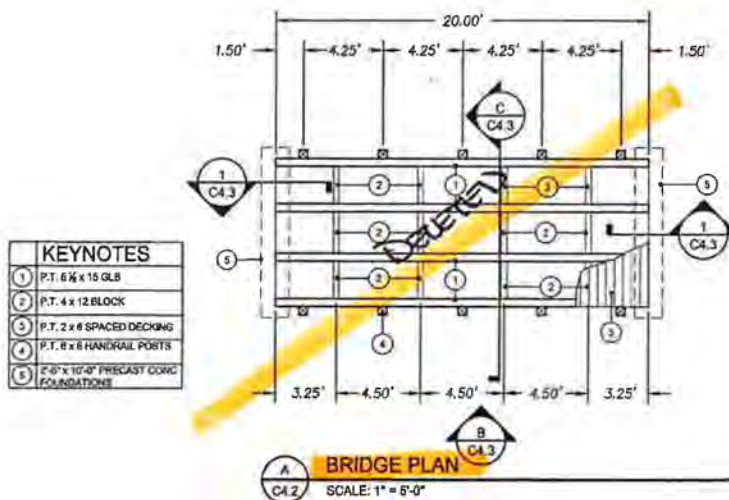
- PROVIDE PRESSURE TREATED (P.T.) LUMBER AT ALL MEMBERS IN CONTACT WITH CONCRETE OR MASONRY.
- PROVIDE PRESSURE TREATED (P.T.) LUMBER AT ALL MEMBERS PERMANENTLY EXPOSED TO OPEN AIR CONDITIONS.
- PRESSURE TREATED LUMBER THAT IS CUT OR BORED SHALL BE TREATED TO RESIST ROT AND DETERIORATION.
- ALL CONNECTORS AND FASTENERS SECURED TO PRESSURE TREATED LUMBER SHALL BE HOT-DIP GALVANIZED.

SCREWS:

- MINIMUM FRAMING SCREWS SHALL CONFORM TO AISI SPECIFICATIONS & IBC / OSSC.
- ALL SCREW ATTACHMENTS SHALL PENETRATE MATERIAL 3 THREADS MINIMUM.

NAILS & FASTENERS:

- NAILING INDICATED ON PLANS AND DETAILS ARE "COMMON" NAILS. MINIMUM FRAMING NAILING SHALL CONFORM TO 2009 IBC TABLE 2304.9.1. SEE DETAILS FOR ADDITIONAL TYPICAL NAILING REQUIREMENTS. SUBSTITUTION OF NAILS OTHER THAN "COMMON" IS NOT PERMITTED WITHOUT PRIOR APPROVAL.
- POWER DRIVEN NAILS OTHER THAN "COMMON" IS NOT PERMITTED WITHOUT PRIOR APPROVAL.
- ALL BOLTED CONNECTIONS SHALL BE MADE WITH MACHINE BOLTS (M.B.) CONFORMING TO ASTM A307. ALL BOLTS AND LAGS SHALL BE INSTALLED WITH STANDARD WROUGHT WASHERS, UNLESS NOTED OTHERWISE.
- JOIST HANGERS, HOLD-DOWNS, AND OTHER FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON COMPANY. ALL HARDWARE IS TO BE FASTENED PER MANUFACTURER'S SPECIFICATIONS, U.N.O.
- SILLS AT WALLS SHALL BE BOLTED TO CONCRETE WITH SIMPSON TITEN HD 1/2" (4" CONG. EMBED) WITH 1/4" x 3" x 3" GALVANIZED PLATE WASHER BETWEEN SILL PLATE AND NUT AT 4'-0" O.C. MAXIMUM WITHIN 1'-0" OF SILL PLATE ENDS, CORNERS OR SPLICES, UNLESS DETAILED OTHERWISE.



DELETED FROM PROJECT PHASE

KEYNOTES	
1	PT. 6x6 x 15 GLB
2	PT. 4x12 BLOCK
3	PT. 2x6 SPACED DECKING
4	PT. 2x6 HANDRAIL POSTS
5	2'-0" x 10'-0" PRECAST CONCRETE FOUNDATIONS

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PEDESTRIAN BRIDGE PROFILE
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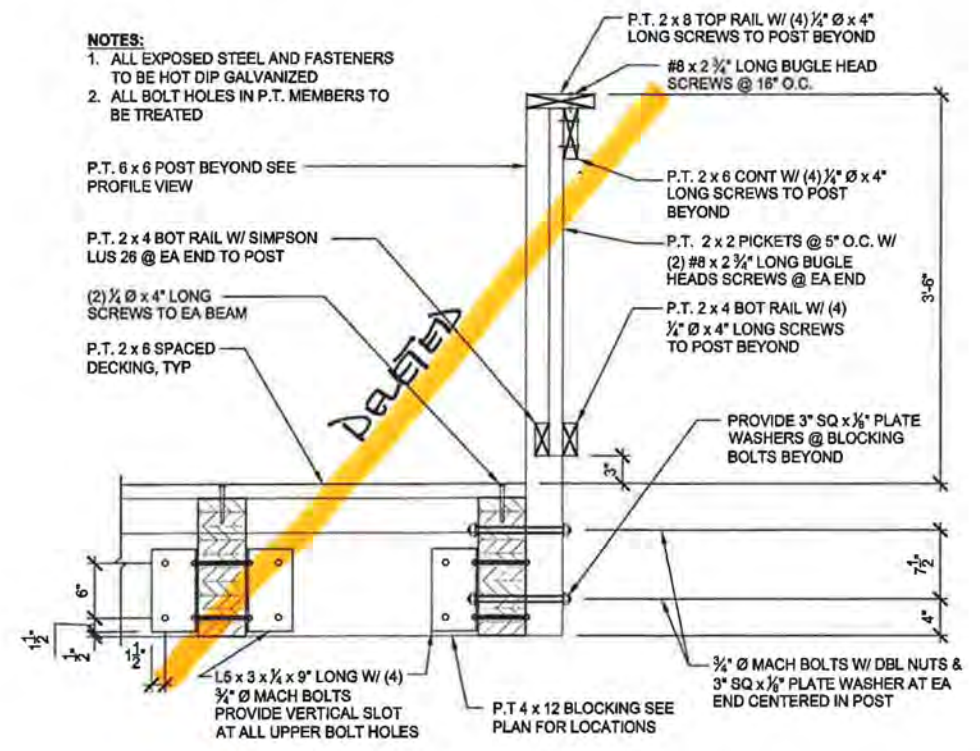
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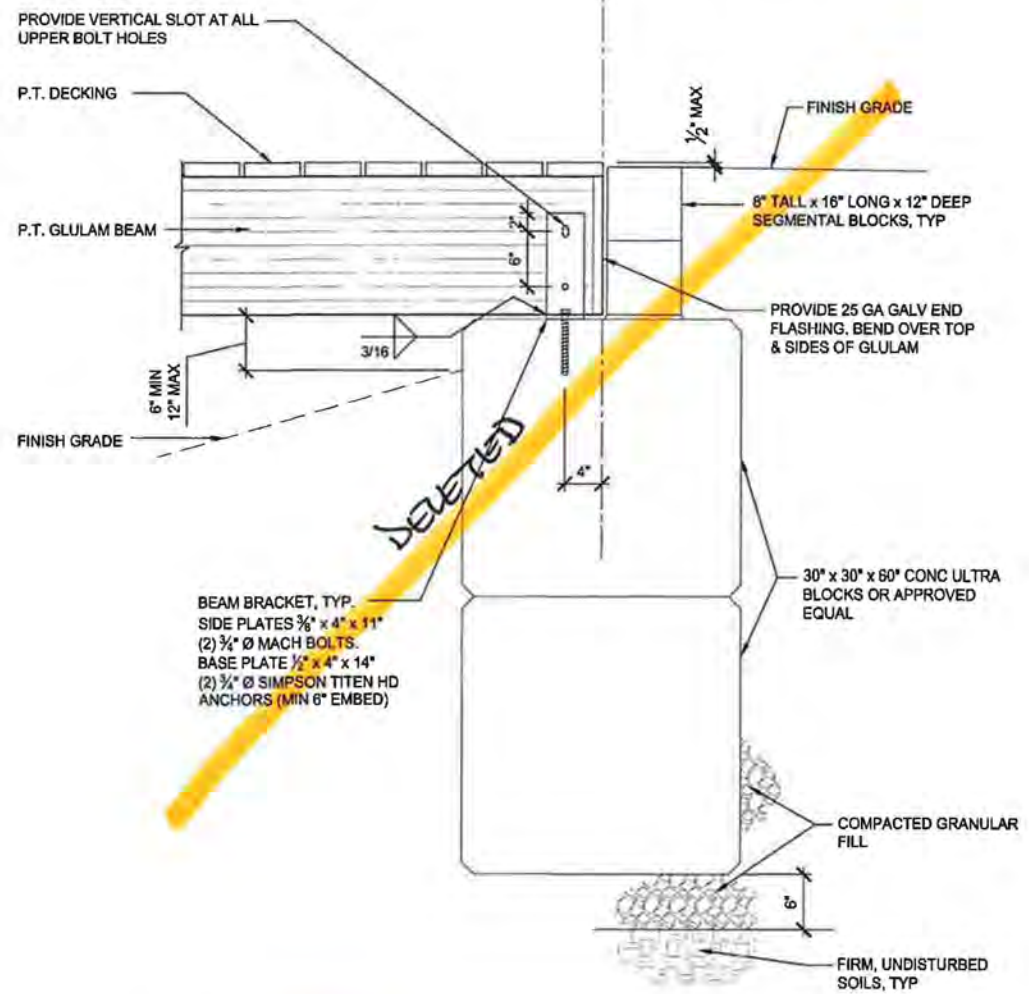
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DELETED FROM PROJECT PHASE



1
C4.3 **DETAIL**
SCALE: 1" = 1'-0"

- NOTES:**
1. ALL EXPOSED STEEL AND FASTENERS TO BE HOT DIP GALVANIZED
 2. ALL BOLT HOLES IN P.T. MEMBERS TO BE TREATED



2
C4.3 **DETAIL**
SCALE: 1" = 1'-0"

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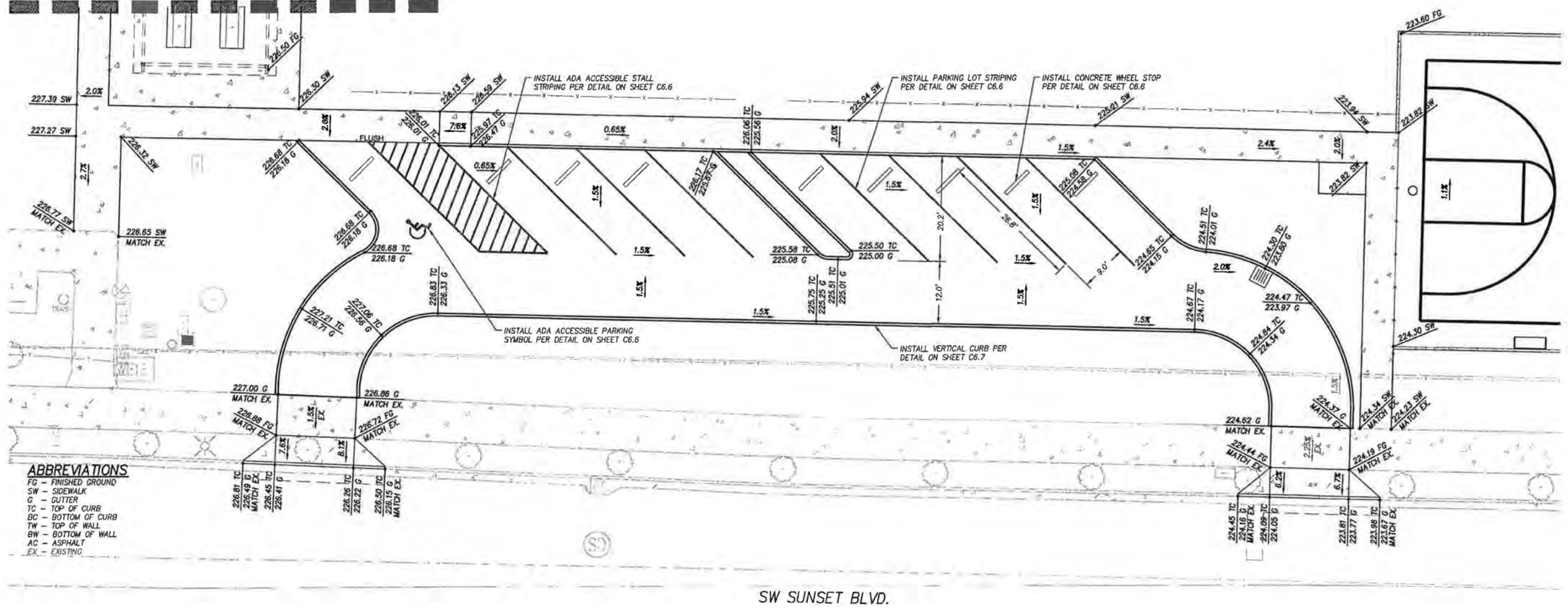
BRIDGE DETAILS
WOODHAVEN PARK PHASE 2
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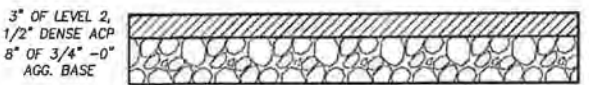
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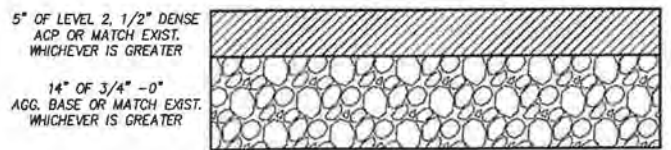
SEE SHEET C4.5 FOR PLAYGROUND GRADING



- ABBREVIATIONS**
- FG - FINISHED GROUND
 - SW - SIDEWALK
 - G - CUTTER
 - TC - TOP OF CURB
 - BC - BOTTOM OF CURB
 - TW - TOP OF WALL
 - BW - BOTTOM OF WALL
 - AC - ASPHALT
 - EX - EXISTING

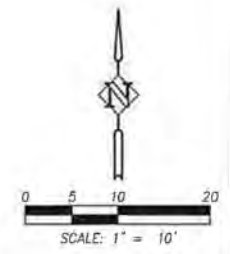


PARKING LOT PAVEMENT SECTION
N.T.S.



PUBLIC STREET PAVEMENT SECTION
N.T.S.

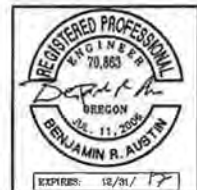
SW SUNSET BLVD.



BID SET

DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016

DATE	NO.	DESCRIPTION
REVISIONS		



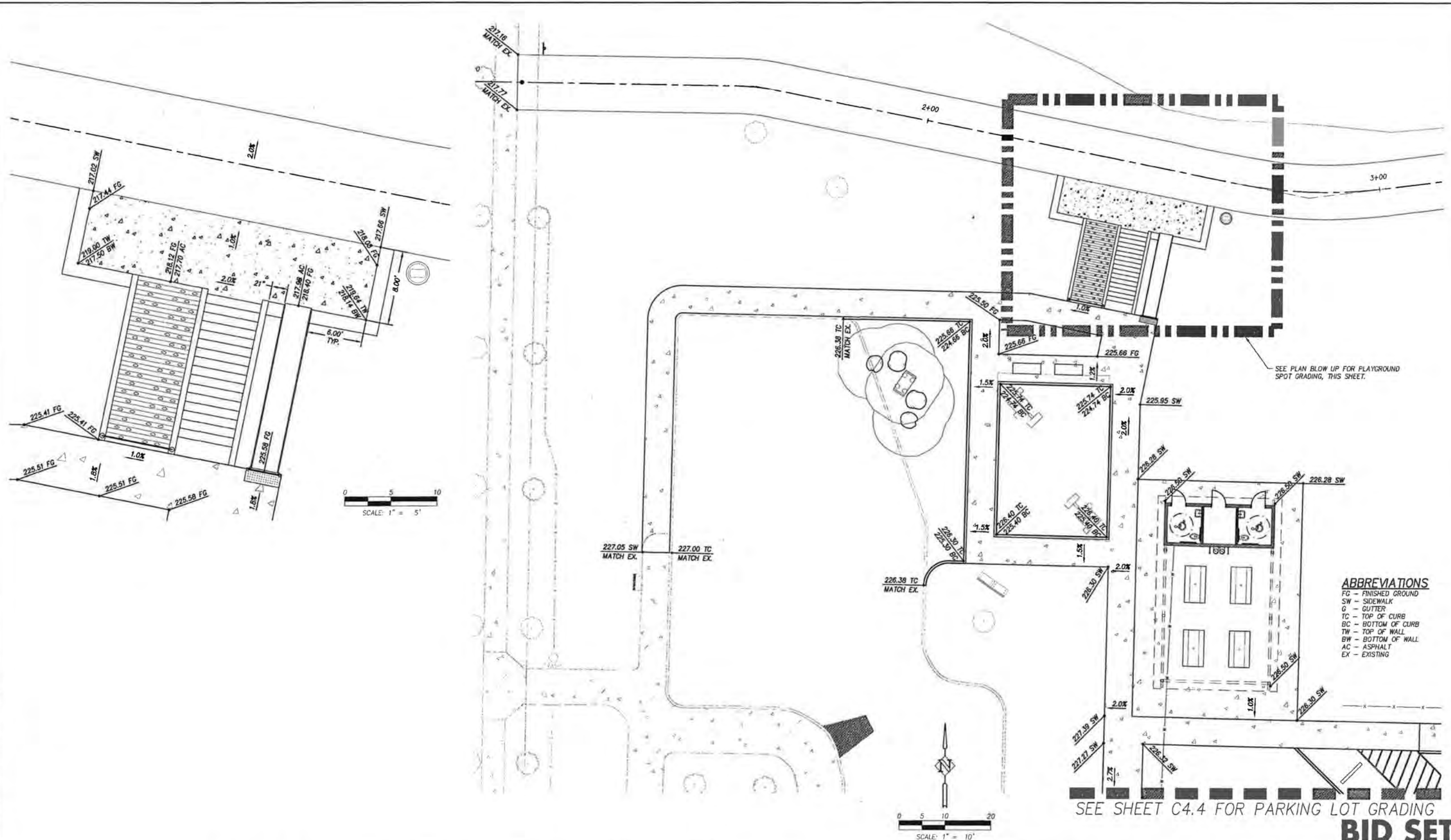
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PARKING LOT GRADING
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO.
C4.4
 JOB NO.
 SHR-13

P:\SHR (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13-DWG\SHEETS\SHR13-C4.2.dwg

P:\SHR_City of Sherwood\SHR-13\Woodhaven Park\SHR13-DWG\SS\SHR13-C5.dwg



- ABBREVIATIONS**
- FG - FINISHED GROUND
 - SW - SIDEWALK
 - G - GUTTER
 - TC - TOP OF CURB
 - BC - BOTTOM OF CURB
 - TW - TOP OF WALL
 - BW - BOTTOM OF WALL
 - AC - ASPHALT
 - EX - EXISTING

DATE	NO.	DESCRIPTION
REVISIONS		

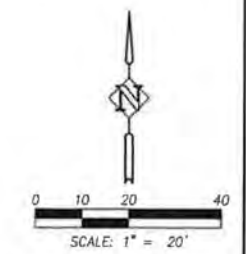
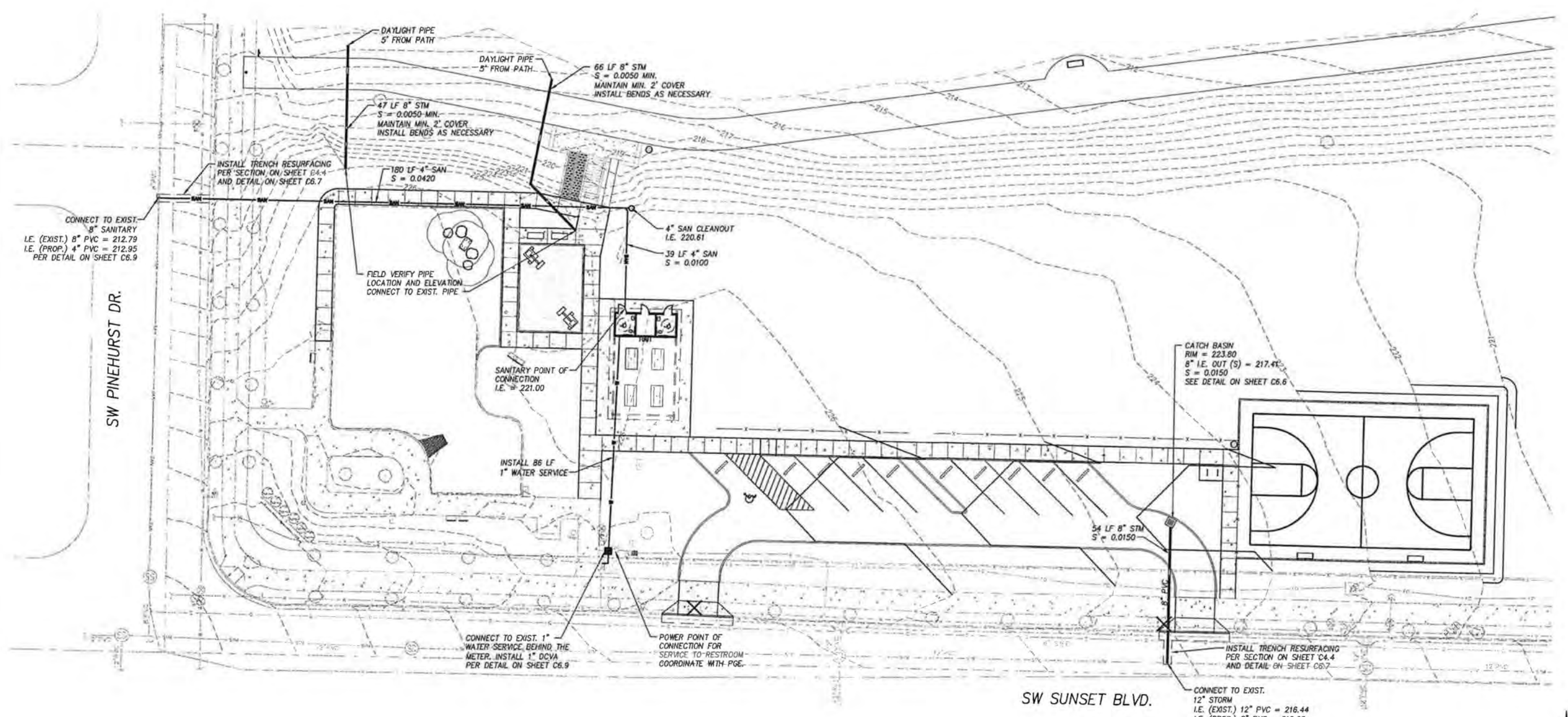
DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016



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PLAYGROUND GRADING
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

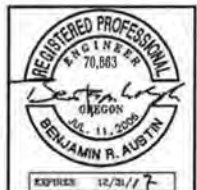
SHEET NO.	C4.5
JOB NO.	SHR-13



BID SET

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016

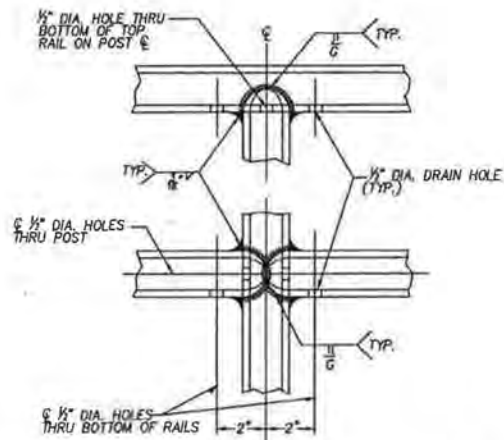


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SITE UTILITY PLAN
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

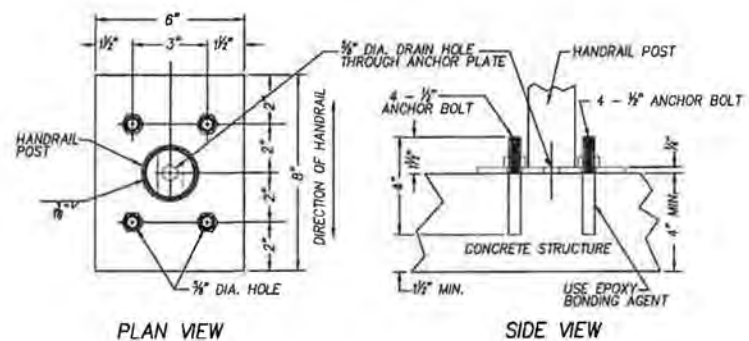
SHEET NO.
C5.0
 JOB NO.
 SHR-13

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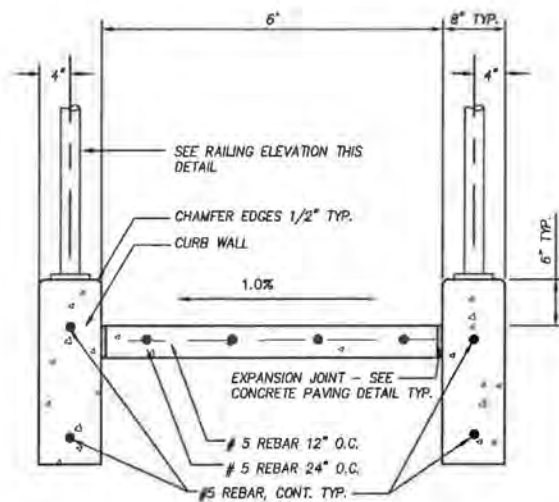
WELD DETAILS FOR STEEL PIPE

N.T.S.

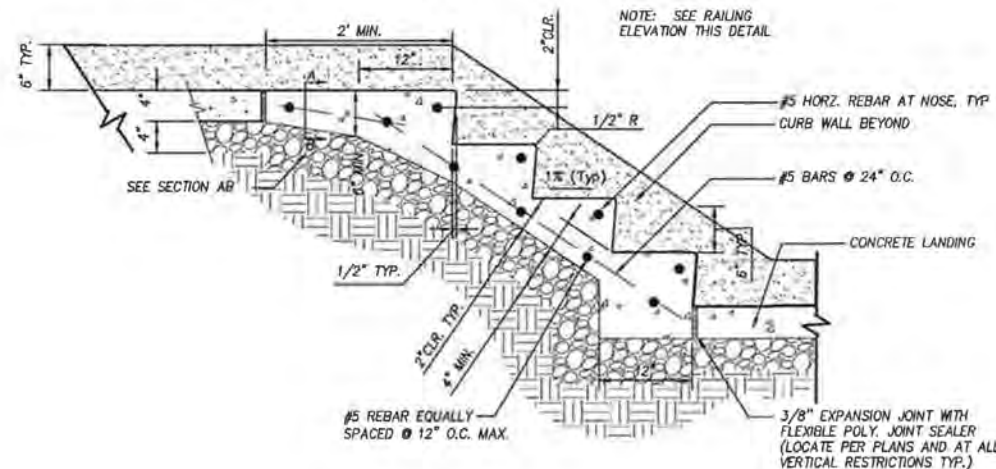


WELD DETAILS FOR STEEL PIPE

N.T.S.



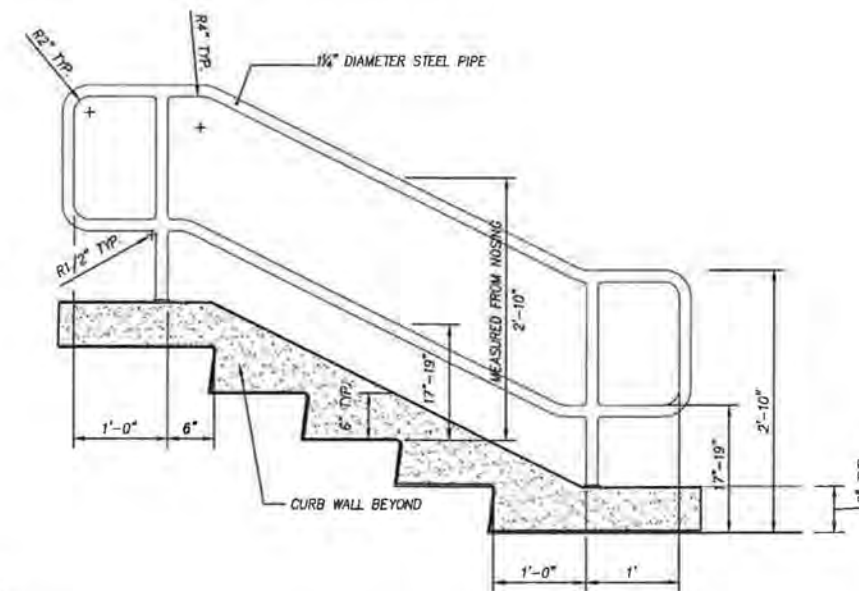
SECTION AB



SECTION

NOTES:

- (1.) ALL PIPE SHALL BE SCH.40 STEEL PIPE.
- (2.) GRIND ALL WELDED JOINTS SMOOTH.
- (3.) HOT-DIP GALVANIZE ALL PARTS AFTER FABRICATION.
- (4.) PIPE SHALL FOLLOW ALIGNMENT OF STAIR NOSINGS.
- (5.) PROVIDE SHOP DRAWINGS BEFORE FABRICATION.
- (6.) SEE ANCHOR PLATE DETAIL FOR POST CONNECTION TO CONCRETE.
- (7.) STEPS IN FLIGHT MUST HAVE UNIFORM TREAD RUNS AND UNIFORM RISER HEIGHTS.
- (8.) TREADS SHALL BE 11" MIN, 12" MAX. RISERS SHALL BE 5" MIN, 7" MAX.
- (9.) LANDINGS BETWEEN FLIGHTS OF STEPS MUST HAVE SAME WIDTH AS STEPS AND A MIN LENGTH OF 4'-0".
- (10.) FLIGHTS OF 4 OR MORE STEPS SHALL HAVE HANDRAILS ON BOTH SIDES.
- (11.) HANDRAILS SHALL BE CONTINUOUS ACROSS LANDINGS BETWEEN FLIGHTS OF STEPS.
- (12.) TREAD SLOPES OUTWARD AT 1%.
- (13.) STEP WIDTH SHALL MATCH WIDTH OF EXISTING WALK, BUT SHALL BE NO LESS THAN 2'-6" WIDE.
- (14.) HANDRAILS SHALL NOT ROTATE IN THEIR FITTINGS.
- (15.) STAIR NOSING AND TREADS SHALL HAVE A SLIP RESISTANT SURFACE.
- (16.) STAIRS AND HANDRAILS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE 2009 OREGON STRUCTURAL SPECIALTY CODE.



HANDRAIL ELEVATION

STAIR AND HANDRAIL DETAIL

N.T.S.

DESIGNED:	BRA	
DRAWN:	TDF	
CHECKED:	BRA	
DATE:	APRIL 2016	
REVISIONS		
DATE	NO.	DESCRIPTION

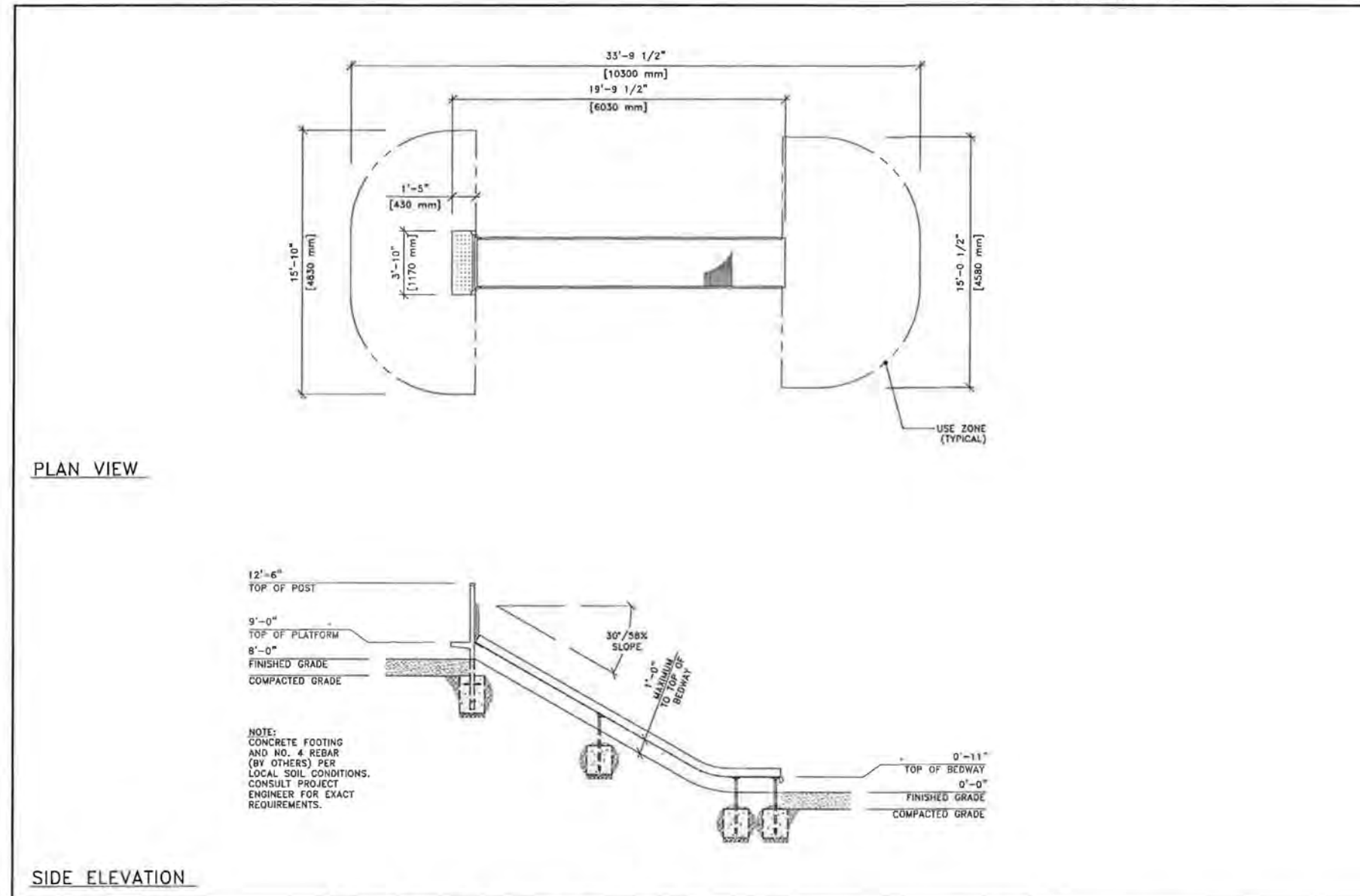


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PLAYGROUND DETAIL - STAIRS
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

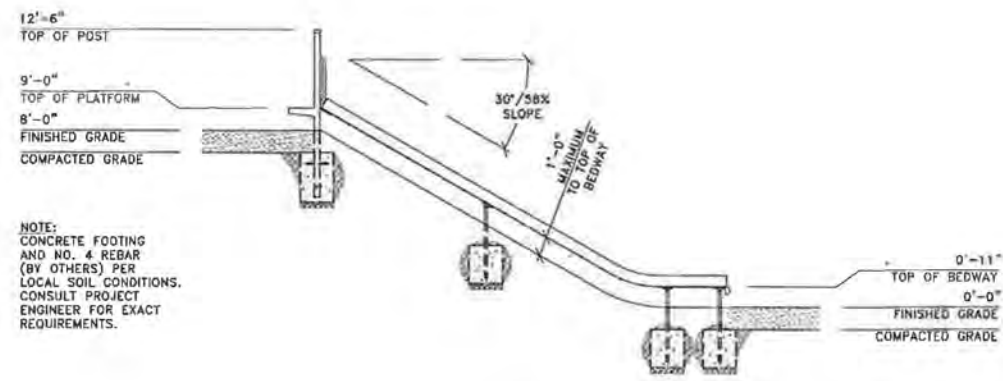
BID SET

SHEET NO.
C6.0
 JOB NO.
 SHR-13



PLAN VIEW

SIDE ELEVATION



NOTE:
CONCRETE FOOTING
AND NO. 4 REBAR
(BY OTHERS) PER
LOCAL SOIL CONDITIONS.
CONSULT PROJECT
ENGINEER FOR EXACT
REQUIREMENTS.

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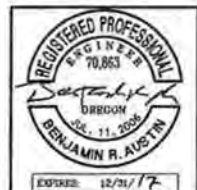
Title:
TIMBERFORM
MODEL NO. 1643-91-EMB
EMBANKMENT WIDE SLIDE CHUTE
(STAINLESS STEEL BEDWAY, 6" RAILS)
Drawing No.
W-1643-91-EMB
Sheet
1 of 1

Scale: 1/4"=1'-0"
Drawn by: Ian
01-21-13
Ck'd by:

P:\SHR (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13-DWG\SHSHEET\SHR13-C4 PLAYGROUND.DETS.dwg

DATE	NO.	DESCRIPTION
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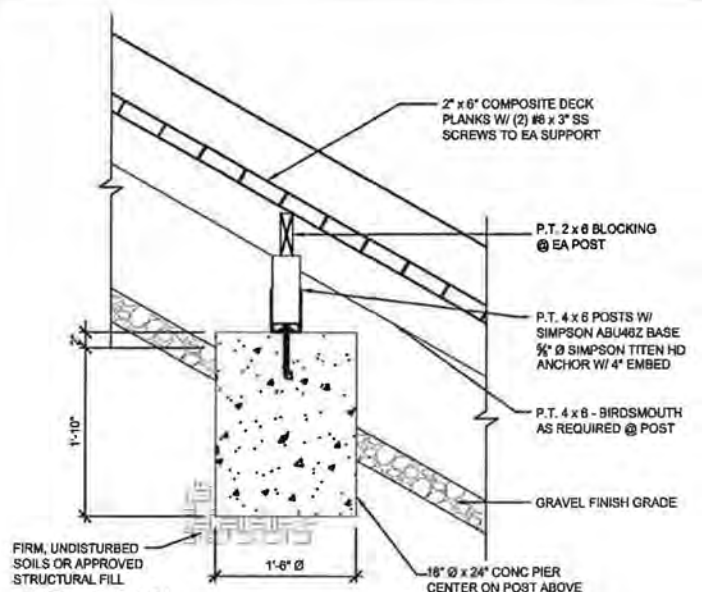
DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016



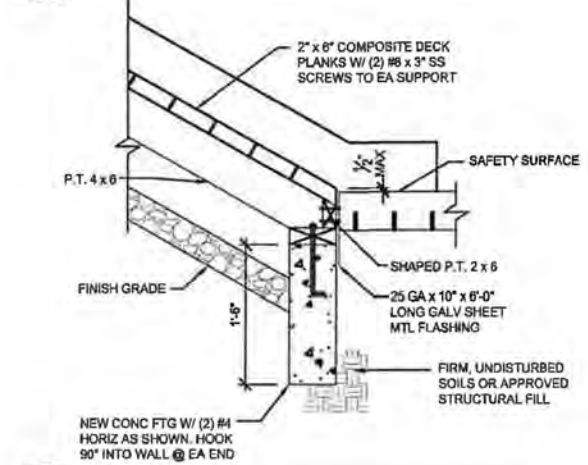
**PLAYGROUND DETAIL - SLIDE
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON**

SHEET NO.
C6.1
JOB NO.
SHR-13

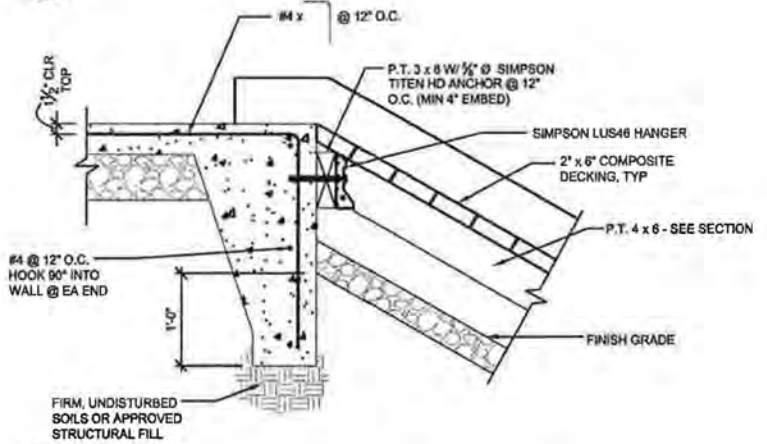
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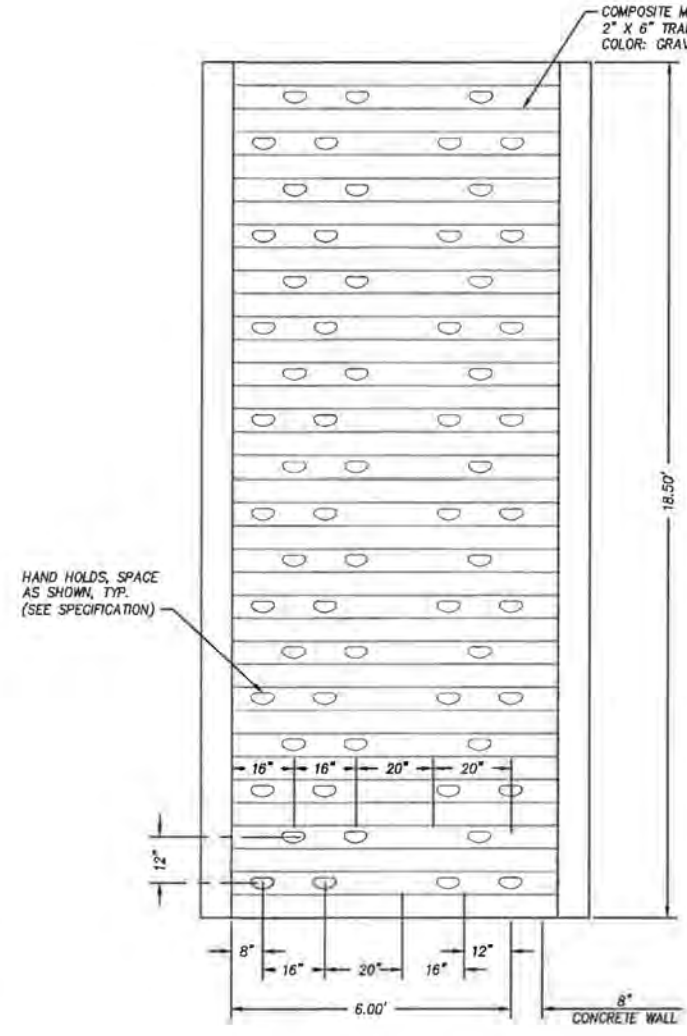
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DETAIL
SCALE: 1" = 1'-0"



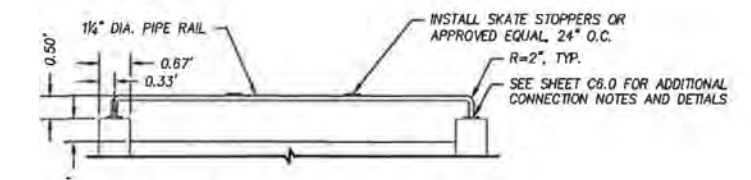
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DETAIL
SCALE: 1" = 1'-0"



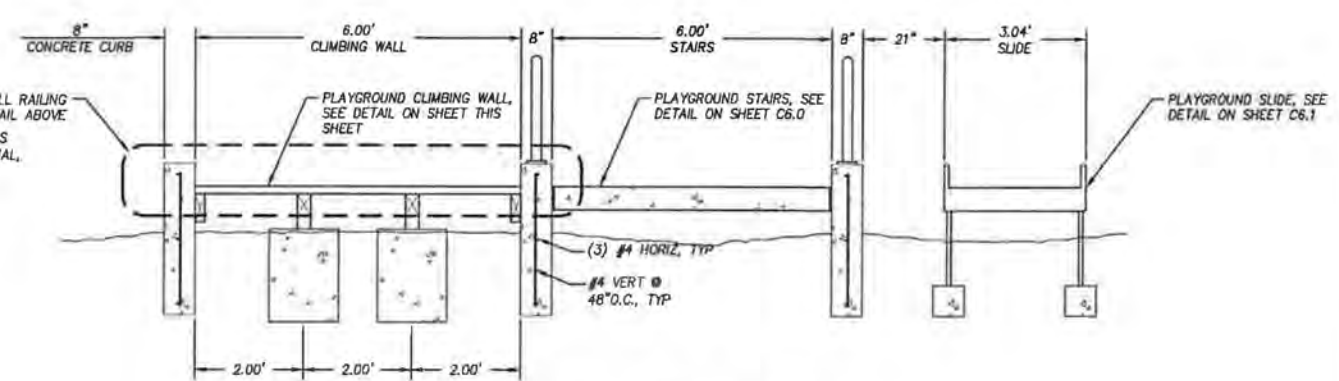
3
DETAIL
SCALE: 1" = 1'-0"



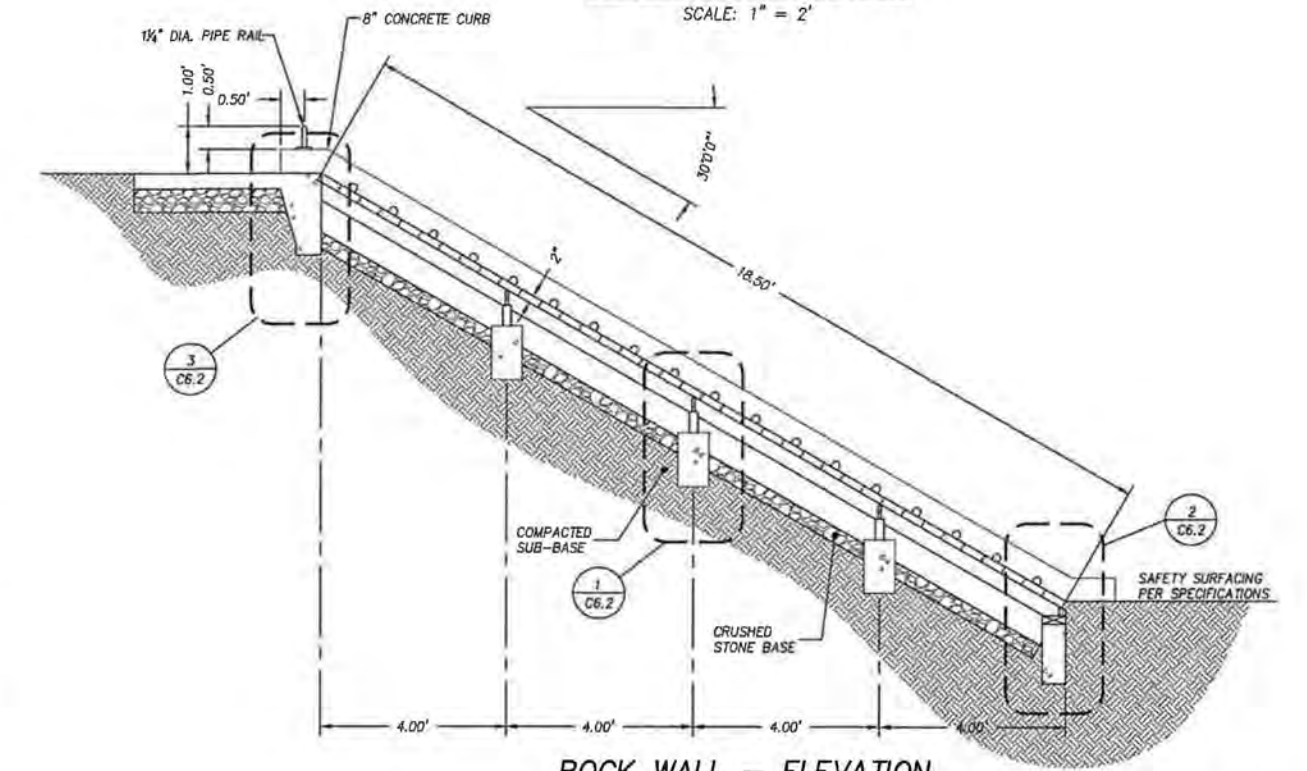
CLIMBING WALL - PLAN
SCALE: 1" = 2'



ROCK WALL RAILING DETAIL
SCALE: 1" = 2'



PLAYGROUND SECTION
SCALE: 1" = 2'



ROCK WALL - ELEVATION
SCALE: 1" = 2'

DATE	NO.	DESCRIPTION

REVISIONS

DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016



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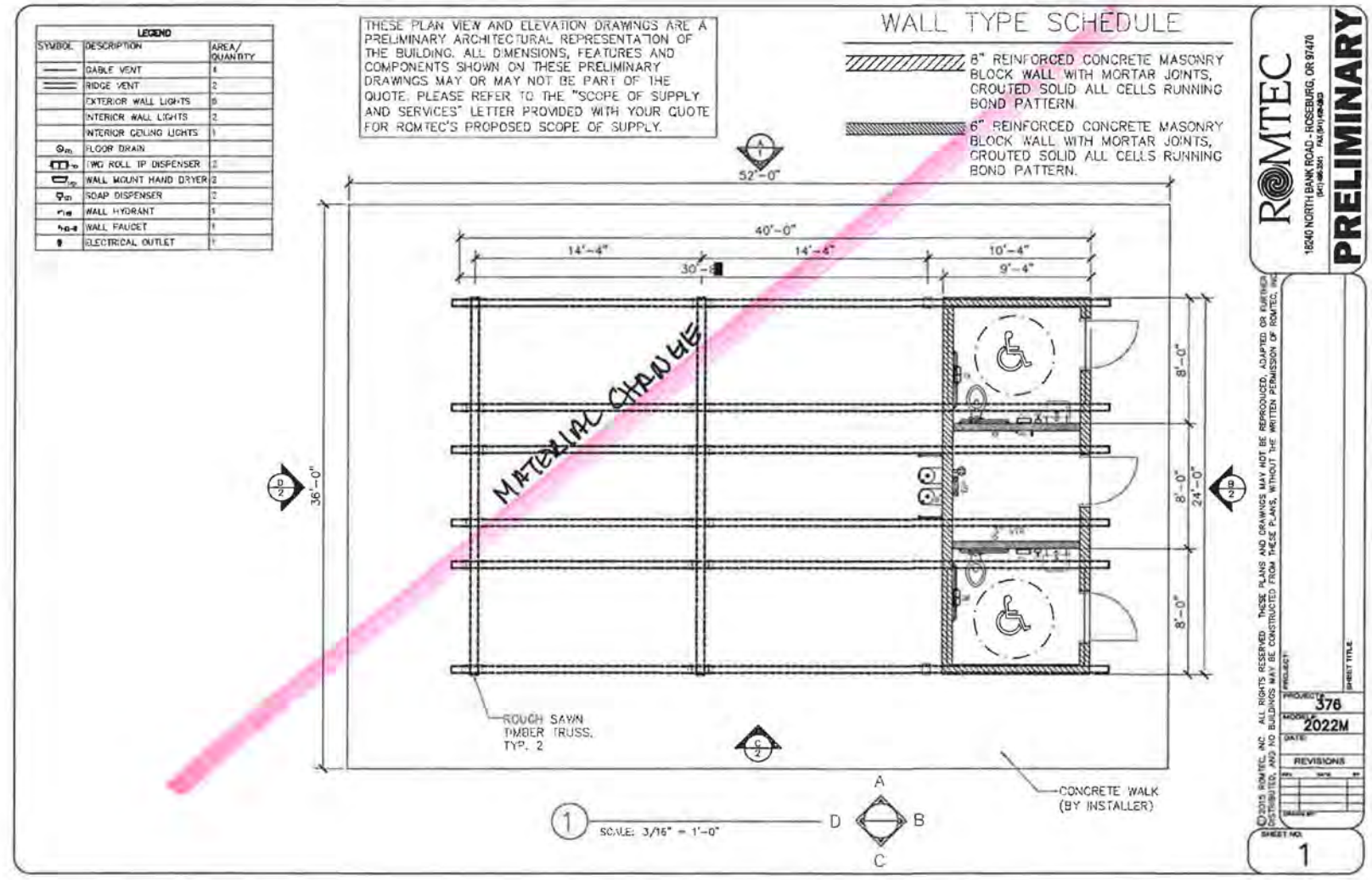
PLAYGROUND DETAIL - ROCK WALL
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

BID SET

SHEET NO.	C6.2
JOB NO.	SHR-13

P:\SHR (City of Sherwood)\SHR-13\DWGS\SHEETS\SHR13-C4_PLAYGROUND_DET.DWG

P:\SHER (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13-DWG\SSHEETS\SHR13-C1.ROMTEC.dwg



MATERIAL CHANGE

DATE	NO.	DESCRIPTION
REVISIONS		

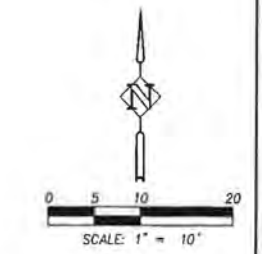
DESIGNED:	BRA
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DATE:	APRIL 2018



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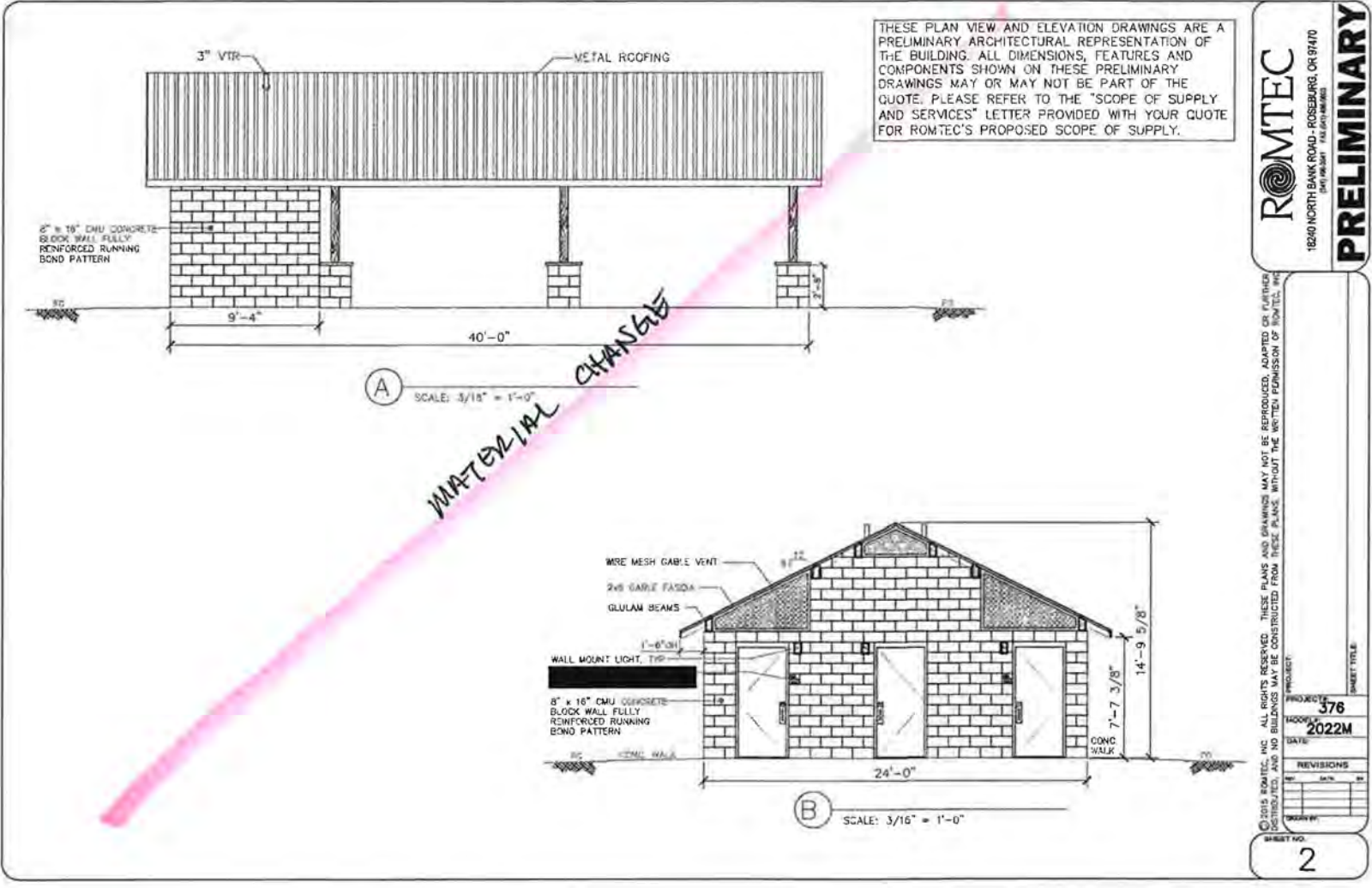
ROMTEC PAVILLION DETAIL 1 OF 3
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO. **C6.3**
 JOB NO. SHR-13



BID SET

P:\SHR (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13-DWG(S)\SHEETS\SHR13-C4 ROMTEC.dwg



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ROMTEC
1820 NORTH BANK ROAD - ROSEBURG, OR 97470
PRELIMINARY

PROJECT: 376
SHEET TITLE: 2022M

REVISIONS

DATE: 2022M

DESIGNED BY: BRA
DRAWN BY: TDF
CHECKED BY: BRA

DATE: APRIL 2016

SHEET NO. 2

MATERIAL CHANGE

DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016



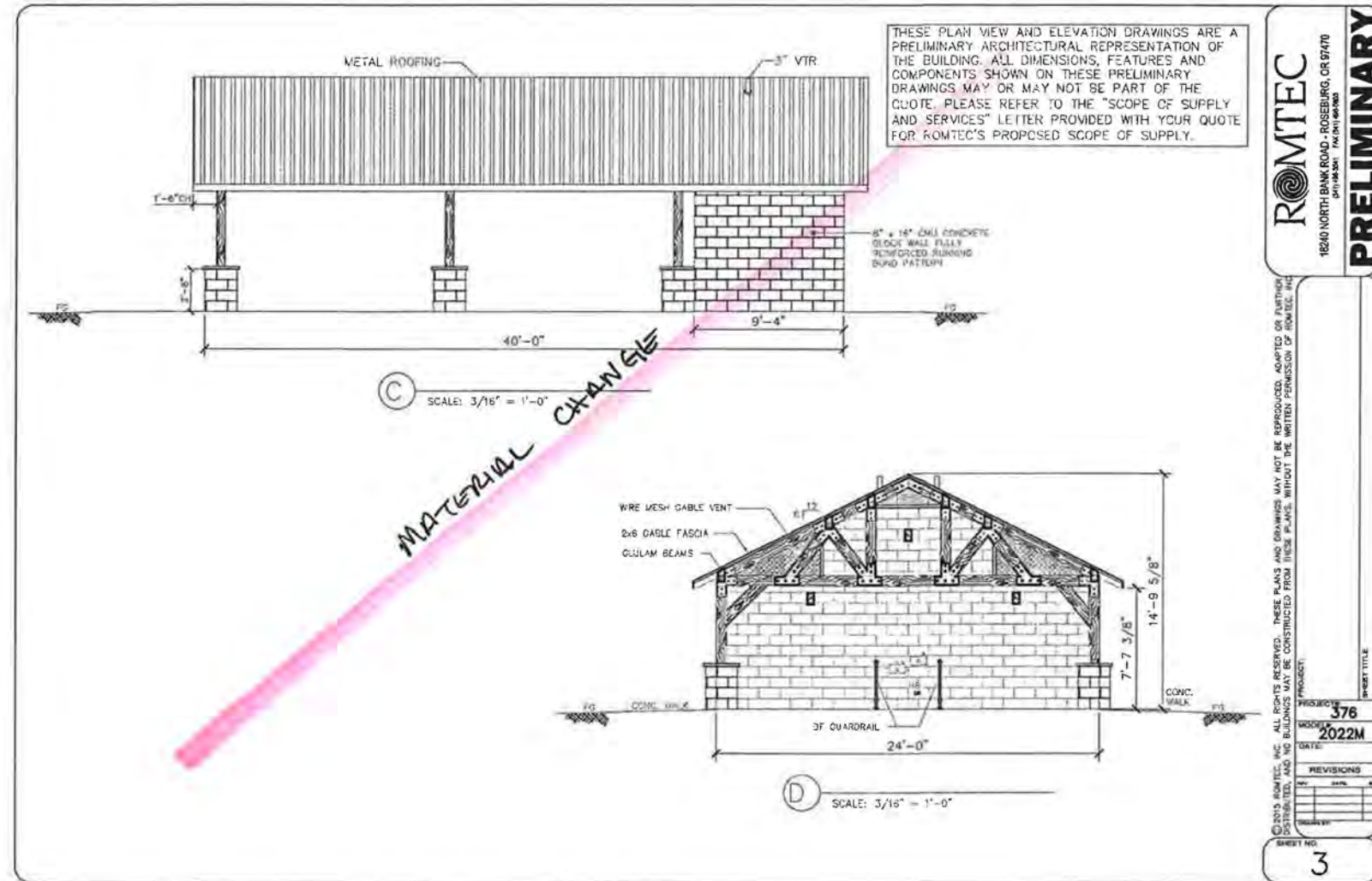
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ROMTEC PAVILLION DETAIL 2 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

BID SET

SHEET NO. C6.4
JOB NO. SHR-13

P:\SHR\City of Sherwood\SHR-13 (Woodhaven Park)\SHR13-DWGSS\SHEETS\SHR13-C4 ROMTEC.dwg



ROMTEC
1630 NORTH BANK ROAD, ROSEBURG, OR 97470
PH: 503.221.1131

PRELIMINARY

PROJECT: 378
MODEL: 2022M
DATE: 12/17/17

REVISIONS

SHEET NO. 3

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	BRA
DRAWN:	TDF
CHECKED:	BRA
DATE:	APRIL 2016

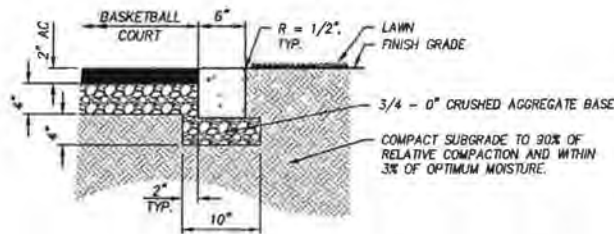


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ROMTEC PAVILLION DETAIL 3 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

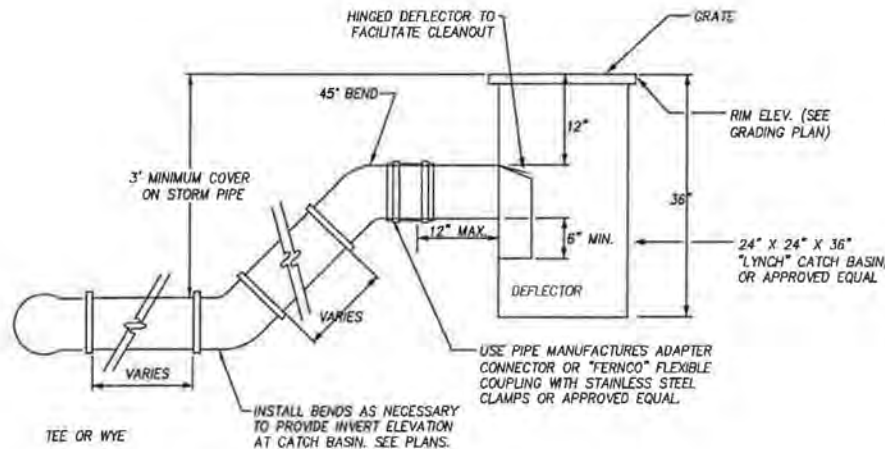
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JOB NO.	SHR-13

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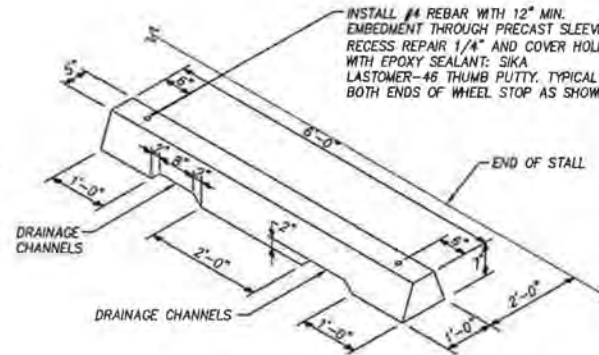


- NOTE:**
1. PROVIDE WEAKENED PLANE JOINTS 1" DEEP AT 5'-0" O.C.
 2. PROVIDE EXPANSION JOINTS AT 10'-0" INTERVALS AND WHERE JOINS CONCRETE WALK.
 3. BROOM FINISH

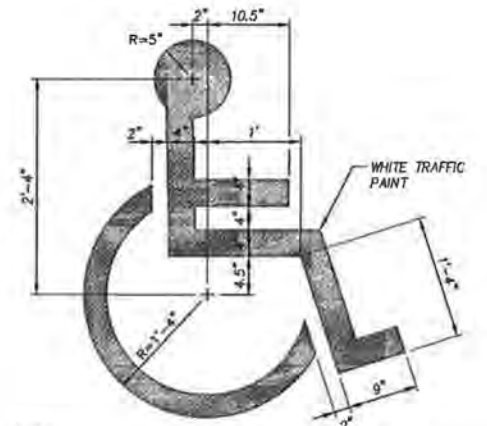
CONCRETE MOW STRIP
N.T.S.



CATCH BASIN - LYNCH
N.T.S.



PRECAST CONCRETE WHEEL STOP
N.T.S.



- NOTES:**
1. SYMBOL AND PAINT SHALL MEET CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.
 2. SYMBOL SHALL HAVE A BLUE BACKGROUND MEETING CURRENT A.D.A. ACCESSIBILITY GUIDELINE REQUIREMENTS.
- ACCESSIBLE PARKING SYMBOL**
N.T.S.

TYPE CL-6 For runs of fence of 20' or less, omit truss rod and install lower brace rail in alternate position at End and Corner Posts.

TYPE CL-8R See general note 6. For runs of fence of 20' or less, omit truss rod at end and corner posts.

TYPES CL-4 & CL-5 See general note 6.

TYPES CL-4R & CL-5R See general note 6. For runs of fence of 20' or less, omit truss rod at end and corner posts.

TYPE	D (ft)	D ₁ (ft)	P (ft)
CL-4	30	24	48
CL-5	36	36	60

TABLE 1 MEMBER

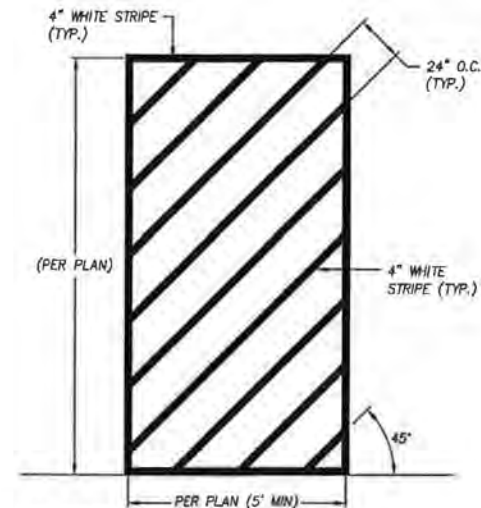
TYPE	BRACE AND TOP RAILS		LINE POSTS		END, CORNER & INTERMEDIATE END POST		GATE OPENING (O)		GATE PORTS	
	Post (ft)	Post (ft)	Post (ft)	Post (ft)	Post (ft)	Post (ft)	Post (ft)	Post (ft)	Post (ft)	
CL-4 & CL-4R	1 1/2	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	
CL-5 & CL-5R	1 1/2	1 1/2	2	2	4	4	4	4	4	
CL-6 & CL-6R	1 1/2	1 1/2	2	2	4	4	4	4	4	

GENERAL NOTES FOR ALL DETAILS:

1. Do not use top rail where fence can be struck by an inert vehicle.
2. Postings shown are illustrative of use and not specific to design.
3. Gate posts on each side of a gate opening to be the same size. At a double gate installation with unequal width gates, size of both posts to be as indicated for a single gate installation of the wider gate width.
4. For cross sectional dimensions of members, see Table 1.
5. Posts and rails with sections not shown that meet the requirements of AASHTO M191 are acceptable alternatives.
6. See ODOT's CIP, for acceptable alternatives.
7. All chain link fabric top and bottom selvage shall be inverted finish.
8. Chain link fabric for the fence to be installed with plastic shall be 9 gauge wire woven in 3 1/2" by 5 1/2" diamond mesh.

OREGON STANDARD DRAWINGS
CHAIN LINK FENCE
2015

Effective Date: June 1, 2015 - November 30, 2015 RDB15



- STRIPING NOTES:**
- ALL PARKING LOT STRIPING SHALL BE PAINT.
 - TRAFFIC MARKING PAINT SHALL BE INDUSTRY STANDARD: ASSHTO M-248, TYPE 3F
 - ACCEPTABLE TRAFFIC PAINTS:
FULLER O'BRIEN: TRAFFIC LINE PAINT, 3B2-12
GENERAL: TRU-TEST SUPREME ZONE MARKING PAINT, 1010 WHITE AND 1012 YELLOW
PPG INDUSTRIES: PITTSBURG TRAFFIC AND ZONE MARKING PAINT 22 LINE, WHITE AND YELLOW
RODDA: TRAFFIC PAINT, WHITE 571 AND YELLOW 570
SHERWIN WILLIAMS: WHITE B29 W1 AND YELLOW B29 Y2

ACCESSIBLE STALL STRIPING
N.T.S.

P:\SHR\City of Sherwood\SHR-13 (Woodhaven Park)\SHR13-DWGSSHEETS\SHR13-C-DETAILS.dwg

DATE	NO.	DESCRIPTION

DESIGNED: BRA
DRAWN: TDF
CHECKED: BRA
DATE: APRIL 2016



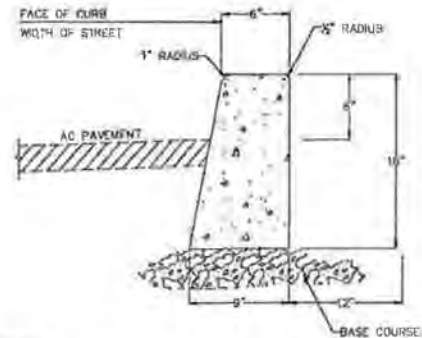
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STANDARD DETAILS
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

BID SET

SHEET NO.
C6.6

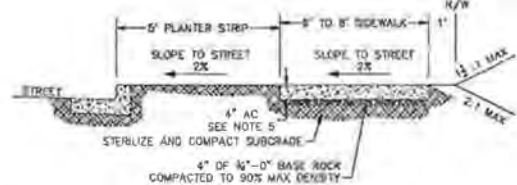
JOB NO.
SHR-13



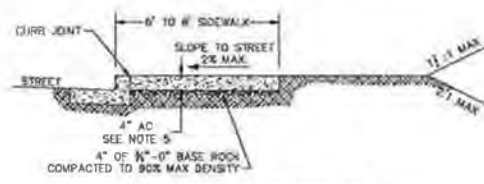
NOTES:

- VERTICAL CURB TO BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS.
- FOR DESIGN SPEEDS GREATER THAN 40 MPH, USE STANDARD CURB AND GUTTER (SEE STD DET RD-22).
- CONCRETE SHALL BE COMMERCIAL MIX, MIN. COMPRESSIVE STRENGTH OF 3300 PSI AT 28 DAYS.
- EXPANSION JOINTS:
 - TO BE PROVIDED:
 - AT EACH POINT OF TANGENCY OF THE CURB.
 - AT EACH COLD JOINT.
 - AT EACH SIDE OF INLET STRUCTURES.
 - AT EACH END OF DRIVEWAYS.
 - AT LOCATIONS NECESSARY TO LIMIT SPACING TO 45 FEET.
 - MATERIAL TO BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2 INCH.
- CONTRACTION JOINTS:
 - SPACING TO BE NOT MORE THAN 15 FEET.
 - THE DEPTH OF THE JOINT SHALL BE AT LEAST 1/2.
- BASE ROCK: 1/2"-0", COMPACTED TO 95% MAX DENSITY. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 4" IN DEPTH, WHICHEVER IS GREATER.

STANDARD DRAWING TITLE		DRAWING NUMBER
STANDARD VERTICAL CURB		RD-21
SCALE	DATE	
N.T.S.	JUL '09	



SIDEWALK WITH PLANTER STRIP (FOR ALL NEW CONSTRUCTION)

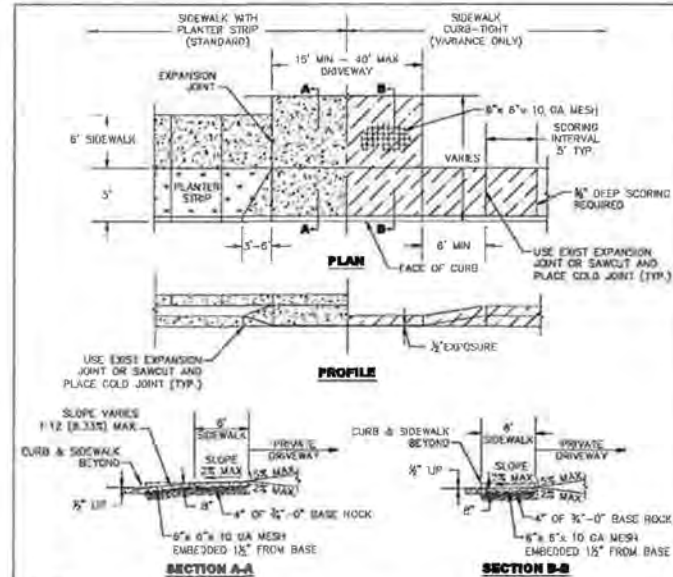


CURB-TIGHT SIDEWALK (TO BE USED WITH VARIANCE ONLY)

NOTES:

- CONCRETE SHALL BE COMMERCIAL MIX, MIN. COMPRESSIVE STRENGTH OF 3300 PSI @ 28 DAYS, WITH A SLUMP RANGE OF 1/2" MIN. TO 3" MAX.
- SIDEWALK PANELS TO BE SQUARE (5' LONG x 2' WIDE TYP.).
- EXPANSION JOINTS TO BE PLACED AT SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, CURB RAMP, AND/OR POINTS OF TANGENCY IN CURB AS SHOWN ON THE STANDARD DRAWINGS FOR SIDEWALK RAMP, AND AT SPACING NOT TO EXCEED 45'.
- FOR SIDEWALKS ADJACENT TO THE CURB AND POURED AT THE SAME TIME AS THE CURB, THE JOINT BETWEEN THEM SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS.
- SIDEWALKS SHALL HAVE A MINIMUM THICKNESS OF 4". IF MOUNTABLE CURB IS USED, OR IF SIDEWALK IS INTENDED AS PORTION OF A RESIDENTIAL DRIVEWAY IT SHALL HAVE A 5" MINIMUM THICKNESS, COMMERCIAL 5'.
- CONCRETE SHALL HAVE A BROOM FINISH, ALL JOINTS SHALL BE EDGED WITH 3" SHINE.
- WIDTH OF PLANTER STRIP AND SIDEWALK IS MEASURED FROM FACE OF CURB.
- IF DRAIN BLOCKOUTS IN CURBS ARE APPROVED, THEY SHALL BE EXTENDED PERPENDICULAR TO CURB TO 1" PAST BACK OF SIDEWALK WITH A 3" DIAMETER ADS PIPE. CONTRACTION JOINT SHALL BE PLACED OVER PIPE.

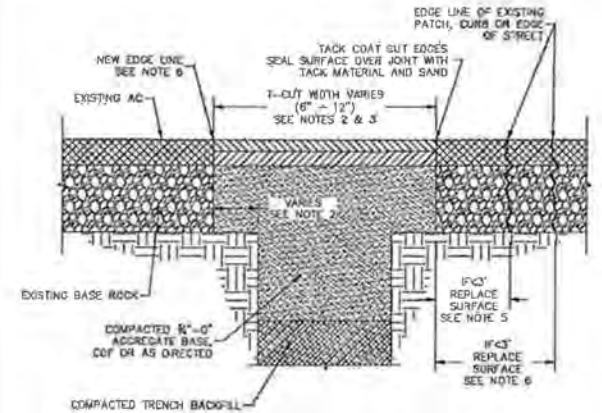
STANDARD DRAWING TITLE		DRAWING NUMBER
STANDARD SIDEWALK DETAIL		RD-26
SCALE	DATE	
N.T.S.	JUL '09	



NOTES:

- CONCRETE SHALL HAVE 5" MINIMUM DEPTH AND A COMPRESSIVE STRENGTH OF 4000 PSI @ 28 DAYS.
- CURB JOINT SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2" RADIUS ALONG BACK OF CURB.
- EXPANSION JOINTS SHALL BE 3/4" PRE-MOLDED ASPHALT IMPREGNATED MATERIAL, CEDAR OR EQUIVALENT, EXTENDING FROM TOP OF BASE TO FINISHED GRADE.
- CONCRETE SHALL HAVE A BROOM FINISH AND EDGE ALL JOINTS.
- WEEDHOLES ARE NOT TO BE PLACED IN WINGS.
- IF CURBING IS BEING REMOVED TO INSTALL DRIVEWAY AND GUTTER SHOULD BE REMOVED AND REPLACED. WINGS OF THE COMMERCIAL DRIVEWAY WHICH ARE A PORTION OF THE SIDEWALK SHALL NOT EXCEED A SLOPE OF 0.33% (1:12).
- ODOT STANDARD DRAWINGS FOR COMMERCIAL DRIVEWAYS MAY BE USED WHEN PRE-APPROVED BY CITY ENGINEER.
- SLOPE OF THE DRIVEWAY MAY BE AWAY FROM THE CURB WHEN PRE-APPROVED BY THE CITY ENGINEER.

STANDARD DRAWING TITLE		DRAWING NUMBER
STANDARD COMMERCIAL DRIVEWAY DETAIL		RD-42
SCALE	DATE	
N.T.S.	JUL '09	



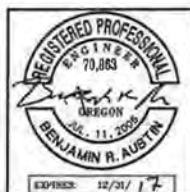
NOTES:

- THIS DRAWING APPLIES TO TRENCH CUTS AND OTHER KINDS OF STREET CUTS.
- SEE STD DET RD-20 FOR TYPICAL STREET PAVEMENT SECTION.
- T-CUT ASPHALT 6" FOR TRENCHES 1/2" WIDE OR LESS, ELSE T-CUT IS 1/2" MINIMUM FOR TRENCHES WIDER THAN 1/2".
- ON ALL NON-LOCAL STREETS, WIDTH OF T-CUT SHALL BE A MINIMUM OF 3". ON ALL LOCAL STREETS, WIDTH OF T-CUT SHALL BE A MINIMUM OF 12" PLUS THE TRENCH WIDTH.
- IF NEW EDGE OF PAVEMENT IS LESS THAN 3" FROM ANOTHER PATCH, CURB OR EDGE OF STREET, REPLACE THE PAVEMENT IN BETWEEN.
- IF MORE THAN ONE EXISTING PATCH EDGE IS WITHIN THE 3" ZONE, REMOVE PAVEMENT TO THE FAR EDGE OF THE PRE-EXISTING PATCH.
- NEW EDGE OF PAVEMENT (EDGE LINE) SHALL NOT BE IN A WHEEL PATH. WIDTH OF T-CUT SHALL BE WIDENED WHERE NECESSARY TO MOVE THE EDGE LINE OUT OF THE WHEEL PATH AND EITHER (A) TO LOCATION THAT IS 6" FROM THE NEAREST LINE OR (B) TO THE LOCATION REQUIRED BY NOTE 5 OR 4 ABOVE AS APPLICABLE, WHICHEVER IS NEAREST OF (A) OR (B).

STANDARD DRAWING TITLE		DRAWING NUMBER
ASPHALT PAVEMENT TRENCH RESTORATION		RD-45
SCALE	DATE	
N.T.S.	JUL '09	

P:\SHR (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13.DWG\SS\SHEETS\SHR13-C-DETAILS.DWG

DESIGNED:	BRA						
DRAWN:	TDF						
CHECKED:	BRA						
DATE:	APRIL 2016						
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DATE	NO.	DESCRIPTION					
R E V I S I O N S							

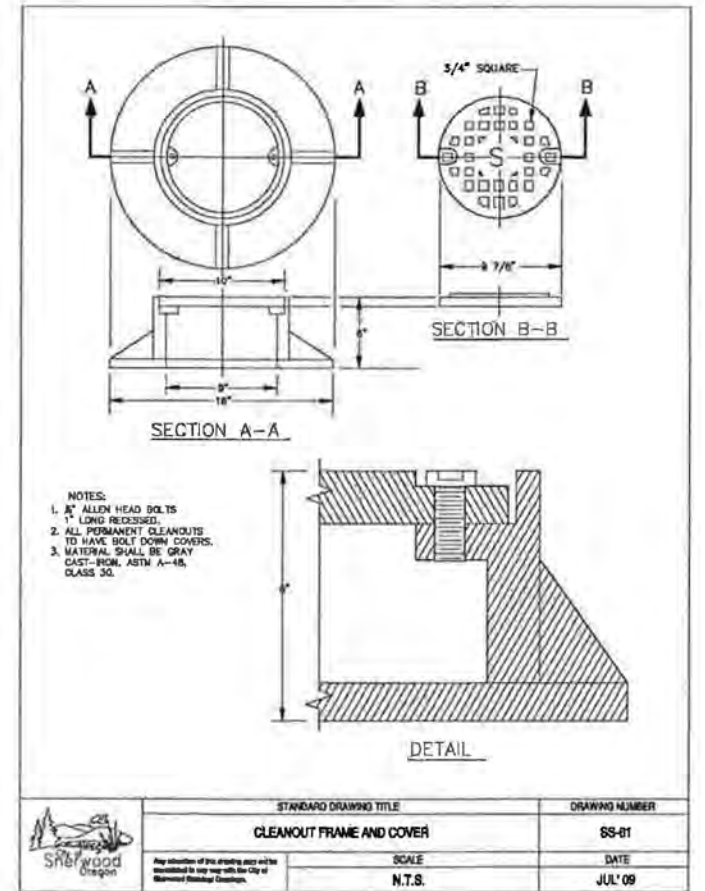
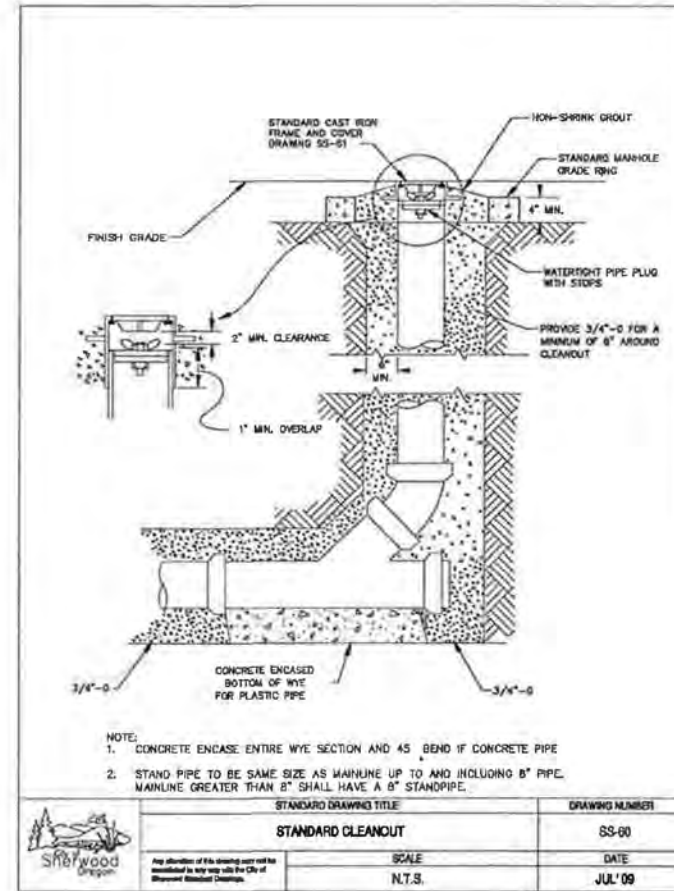
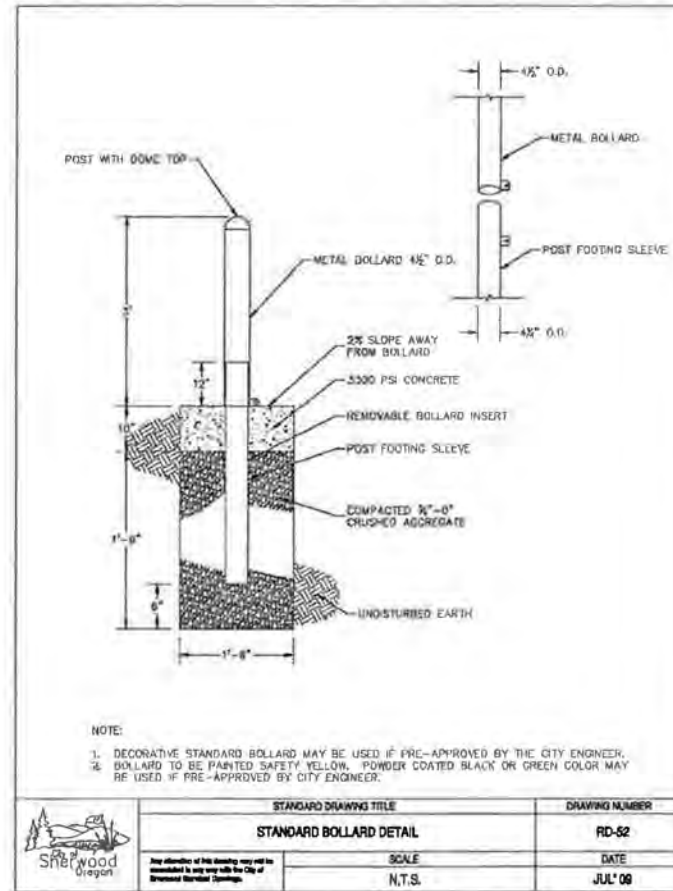
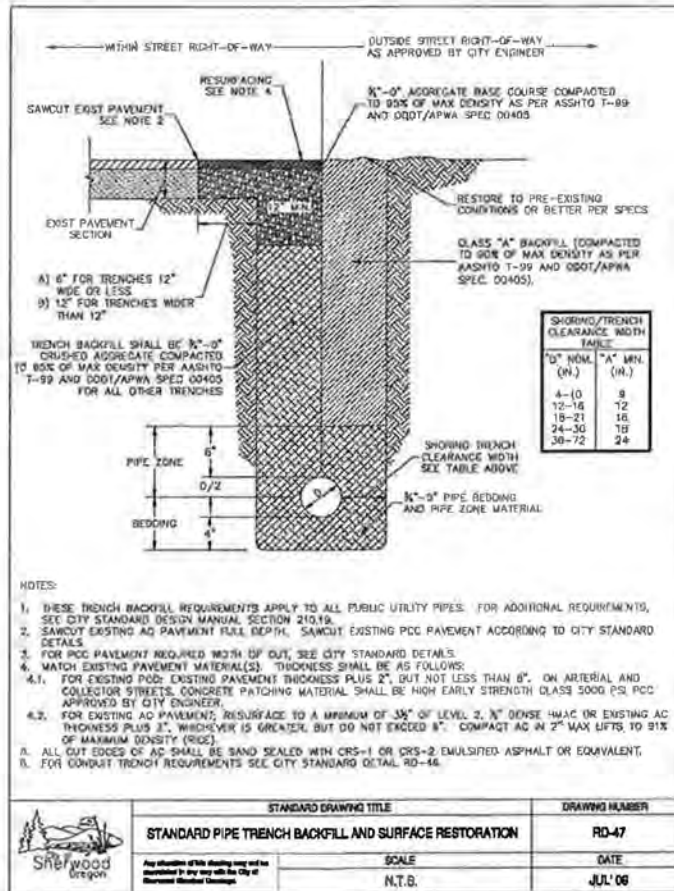


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CITY OF SHERWOOD STANDARD DETAILS - 1 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO.	C6.7
JOB NO.	
SHR-13	

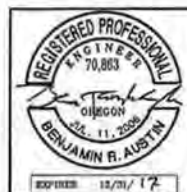
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DATE	NO.	DESCRIPTION
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CITY OF SHERWOOD STANDARD DETAILS - 2 OF 3
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO.
C6.8
JOB NO.
SHR-13

BID SET

P:\SHR (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13-DWG\SS\SHEETS_SHR13-C-DETAILS.dwg

1. PVC HUB SHALL CONFORM TO ASTM 3034, SDR 35 DRIVE INTO CENTER OF RUBBER SLEEVE AFTER SLEEVE IS PLACED IN HOLE.

2. STAINLESS STEEL BAND SECURES UPPER HALF OF RUBBER SLEEVE TO THE PVC HUB. STAINLESS STEEL BAND SHALL BE 300 SERIES, 1/4" BAND WIDTH, CADMIUM PLATED CARBON STEEL, AND ATTACHED WITH HEX HEAD SLOTTED SCREW.

3. COMPLETE RUBBER SLEEVE INCLUDES A MOLDED SEGMENT THAT HOLDS IT IN PLACE.

1. ALL INSERTA-TEE HOLES SHALL BE MACHINE DRILLED AND CORED.
 2. INSERTA-TEE ARE ALLOWED IN NEWLY CONSTRUCTED SEWER MAINS 12" AND LARGER INSIDE DIAMETER (I.D.).
 3. SEWER MAIN SHALL BE TWO SIZES (NOMINAL I.D.) LARGER THAN THE INSERTA-TEE.
 4. HOST PIPE SHALL BE MINIMUM .35" WALL THICKNESS.

STANDARD DRAWING TITLE	DRAWING NUMBER
INSERTA-TEE	SS-63
SCALE	DATE
N.T.S.	JUL'08

TAKI ALL EXPOSED MATERIAL PATCH AC TO GREATER OF 3" THICKNESS OR EXISTING

6" MIN. 12" MIN. 8" MIN. EXISTING AC

EXISTING BASE ROCK

3/4" - 0 CRUSHED ROCK

PIPE ZONE

8" MIN.

NOTE:
 1. TEE CUT TO BE DONE AFTER EXCAVATION AND BACKFILL OF TRENCH.
 2. SEE STD. DRAWING SS-68 FOR BEDDING, PIPE ZONE, AND TRENCH BACKFILL.

STANDARD DRAWING TITLE	DRAWING NUMBER
T-CUT ASPHALT DETAILS	SS-70
SCALE	DATE
N.T.S.	JUL'09

METER SIDE 1'-3 3/4" 10 3/4" 1'-9" CUSTOMER SIDE

PLAN

CARSON METER BOX L SERIES 1419 (OR EQUAL)

1419-BX

8"

24" MIN.

18"

1419-1B

1" FERCO MODEL 805-Y DOUBLE CHECK VALVE ASSEMBLY (OR EQUAL)

1" UNION EACH SIDE

8" MIN.

8" MIN.

CRUSHED ROCK BASE

PROFILE

NOTE:
 INSTALLATION SHOWN IS ONLY A SUGGESTION. THE DISTANCE FROM BOTTOM OF DEVICE TO FINISH GRADE, FREEZE PROTECTION, AND CLEARANCE FOR TESTING & REPAIR ARE THE MAJOR CONSIDERATIONS FOR INSTALLATION. PLUGS TO BE INSTALLED IN TEST COCKS OF BELOW GROUND INSTALLATIONS (NO DISSIMILAR METALS).
 IF ADEQUATE FREEZE PROTECTION IS PROVIDED, THE 24" MIN. CLEARANCE MAY BE REDUCED.

STANDARD DRAWING TITLE	DRAWING NUMBER
1" DOUBLE CHECK ASSEMBLY	W-72
SCALE	DATE
N.T.S.	JUL'09

DATE	NO.	DESCRIPTION
R E V I S I O N S		

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DATE:	APRIL 2018



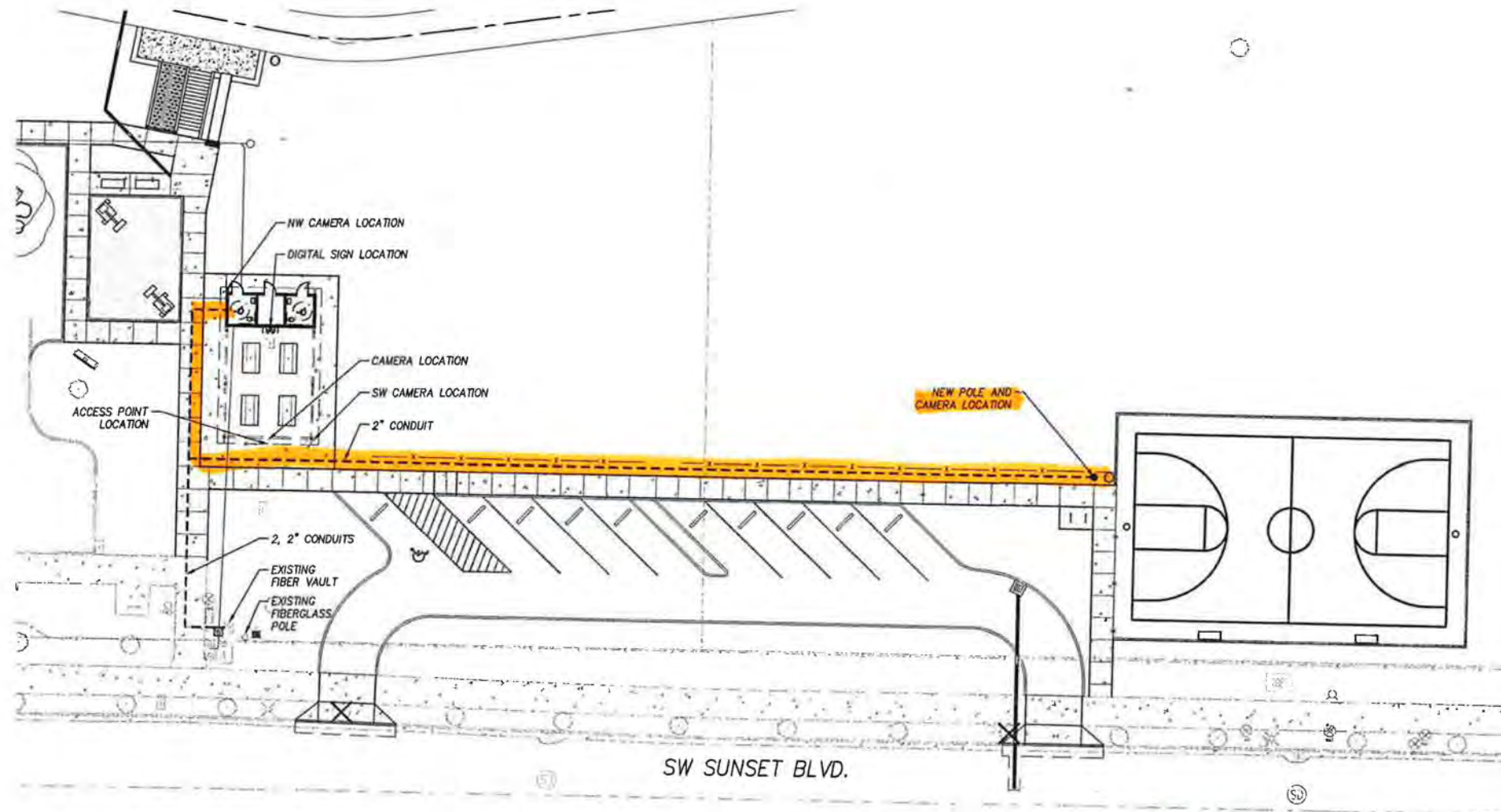
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CITY OF SHERWOOD STANDARD DETAILS - 3 OF 3
WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

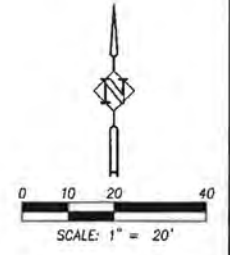
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SHEET NO.
C6.9

JOB NO.
 SHR-13



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DATE:	APRIL 2016



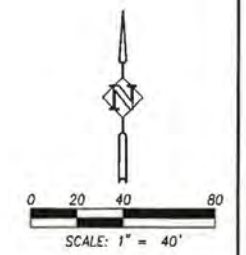
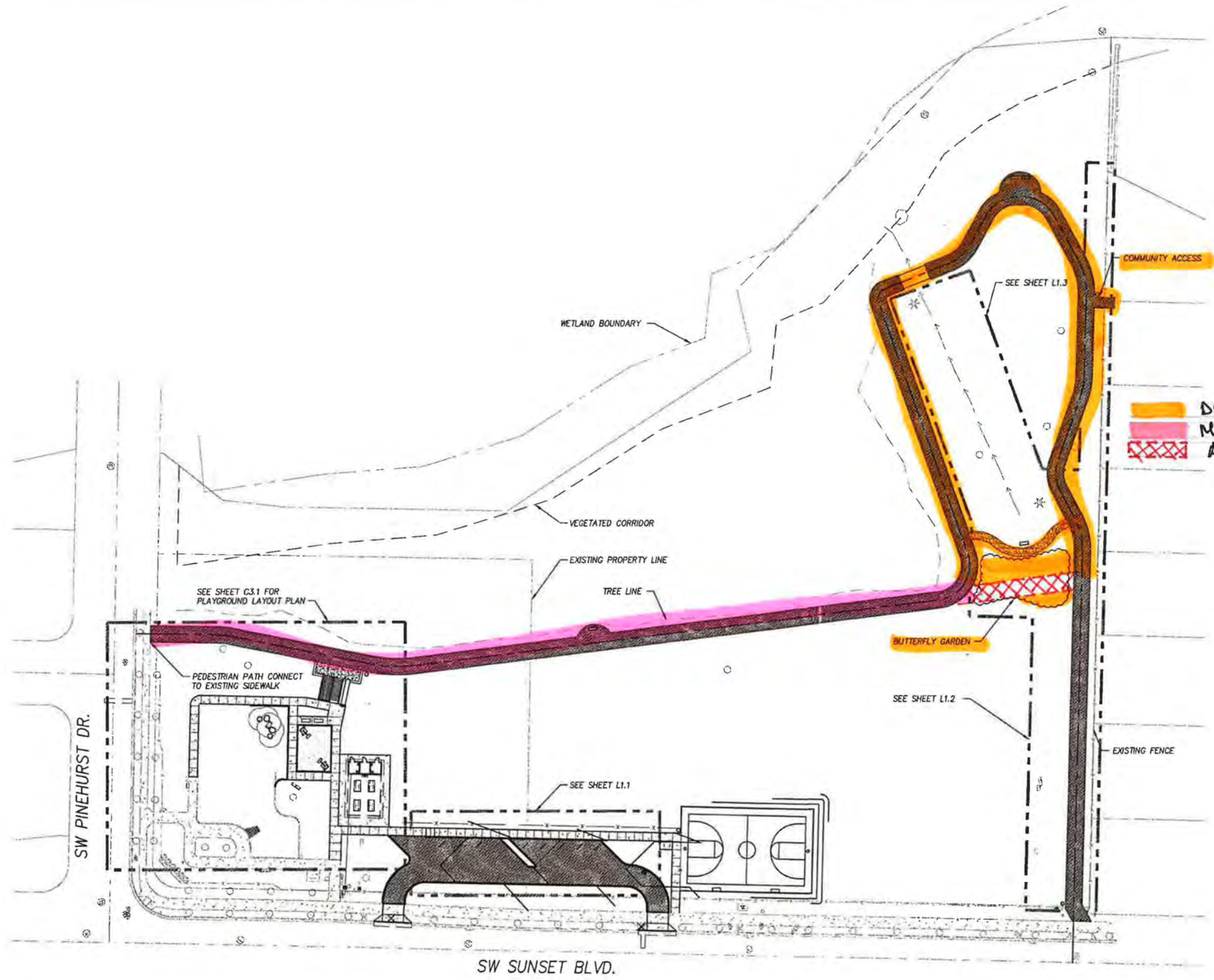
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SITE SECURITY AND I.T.
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO.
C7.0
 JOB NO.
 SHR-13

P:\SHR (City of Sherwood)\SHR-13 (Woodhaven Park)\SHR13.DWG(SHEETS)\SHR13-CT_0.dwg

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OVERALL PARK PLANTING - KEY MAP
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO.	L1.0
JOB NO.	SHR-13

PLANT SCHEDULE

TREES

- 1 QUERCUS GARRYANA - WHITE OAK
2" CAL/6' HGT
CONT., WELL BRANCHED, SPACE AS SHOWN
- 9 PYRUS CALLERYANA 'GLENS FORM - CHANTICLEER PEAR
2" CAL/6' HGT
CONT., WELL BRANCHED, SPACE AS SHOWN
- 7 PINUS CONTORTA VAR. CONTORTA - SHORE PINE
2" CAL/6' HGT
CONT., WELL BRANCHED, SPACE AS SHOWN
- 5 CORNUS X 'RUTDAN'- CELESTIAL DOGWOOD
2" CAL/6' HGT
CONT., WELL BRANCHED, SPACE AS SHOWN

SHRUBS

- 18 MAHONIA AQUIFOLIUM 'COMPACTA' - COMPACT OREGON GRAPE
1 GAL
CONT., WELL BRANCHED, SPACE AS SHOWN
- 6 RIBES SANGUINEUM - RED FLOWERING CURRENT
1 GAL
CONT., WELL BRANCHED, SPACE AS SHOWN
- 6 ROSA WOODSII - WOODS ROSE
1 GAL
CONT., WELL BRANCHED, SPACE AS SHOWN

GROUND COVER

- 110 ARCTOSTAPHYLOS
4" POTS
FULL PLANTS, 30" O.C.

SEEDING

	LBS OF PLS / ACRE
PERMANENT SEEDING	
BROMUS CARINATUS / CALIFORNIA BROME	32.68
ELYMUS GLAUCUS / BLUE MILDRYE	13.07
FESTUCA RUBRA VAR. 'RUBRA' / NATIVE RED FESCUE	13.07
LUPINUS RIVULARIS / STREAMBANK LUPINE	6.54
TOTAL	65.36
IRRIGATED TURF	
FESTUCA RUBRA SPP. FALLAZ VAR. WINDWARD / WINDWARD CHEWINGS FESCUE	13.15
FESTUCA RUBRA COMMUTATA VAR. GARNET / GARNET CREEPING FESCUE	12.42
LOLIUM PERENNE 'BLAZER4' / BLAZER 4 PERENNIAL RYEGRASS	37.27
LOLIUM PERENNE 'EXPRESS II' / EXPRESS II PERENNIAL RYEGRASS	37.27
TOTAL	100.11

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GENERAL PLANTING NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT CITY OF SHERWOOD STANDARDS AND THE OREGON UNIFORM BUILDING CODES.
- INSTALL EROSION CONTROL SYSTEMS IN ACCORDANCE WITH CITY OF SHERWOOD STANDARDS PRIOR TO SITE WORK AND LANDSCAPE INSTALLATION.
- MARK AND PROTECT ALL UTILITIES, SITE FEATURES, AND VEGETATION TO REMAIN IN PLACE.
- REMOVE EXISTING PLANTING BED SOILS AND REPLACE AND/OR AMEND SOILS IN BEDS IN ACCORDANCE WITH LANDSCAPE PLANS AND SPECIFICATIONS.
- LANDSCAPE INSTALLATION SHALL INCLUDE PROVISION OF AN AUTOMATIC IRRIGATION SYSTEM DESIGNED TO COMPLIMENT A LANDSCAPE PLANTING PLAN FOR BEDS IN THE PLANS MEETING LOCAL AND STATE BUILDING CODES.
- PLANT MATERIAL INSTALLED SHALL CONFORM IN SIZE AND GRADE TO THE "AMERICAN STANDARD FOR NURSERY STOCK" CURRENT EDITION.
- THE QUANTITIES OF PLANT MATERIALS SHALL BE AS DETERMINED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFIED SPACING OR LOCATION ON THE PLAN. MATERIAL QUANTITIES SHOWN ON PLAN ARE FOR CONTRACTOR CONVENIENCE ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION. SURPLUS OR SHORTAGES OF PLANT QUANTITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- LANDSCAPE CONTRACTOR SHALL WATER PLANTINGS FOR THE DURATION OF 365 DAY WARRANTY PERIOD AFTER INSTALLATION AND GUARANTEE ALL PLANTINGS TO BE ALIVE AND IN SATISFACTORY HEALTH.

PARKING LOT LANDSCAPING REQUIREMENTS
45 SF / SPACE = 450 SF REQUIRED
2,216 SF PROVIDED

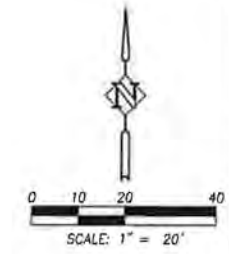
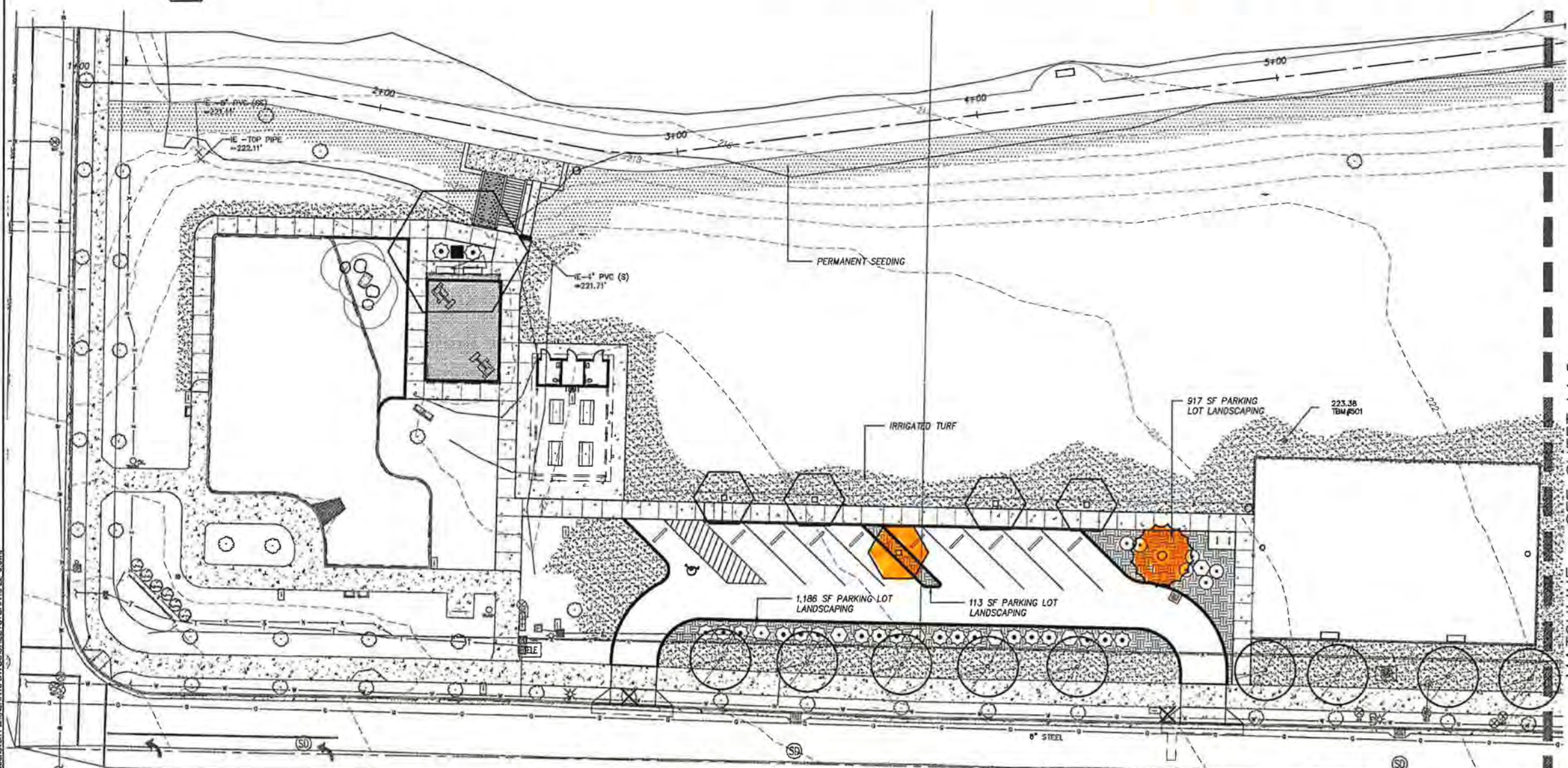
1 SMALL TREE / 2 SPACES = 5 TREES REQUIRED
5% EVERGREEN
6 PROVIDED

2 SHRUBS / SPACE = 20 SHRUBS REQUIRED
30 PROVIDED

GC REMAINDER

ISLANDS REQUIRED
1 ISLAND / 10 SPACES

MATCHLINE - SEE SHEET L1.2



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DATE	NO.	DESCRIPTION
REVISIONS		

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PARK PLANTING PLAN
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO.
L1.1
JOB NO.
SHR-13

P:\SHR City of Sherwood\SHR-13 Woodhaven Park\SHR13-DWGSS\SHR13-L1.0.dwg

PLANT SCHEDULE

TREES

- 5 | PYRUS CALLERYANA 'OLENS FORM - CHANTICLEER PEAR
2" CAL/6' HGT | CONT., WELL BRANCHED, SPACE AS SHOWN
- 7 | RHAMNUS PURSHIANA - CASCARA
2" CAL/6' HGT | CONT., WELL BRANCHED, SPACE AS SHOWN
- 2 | PRUNUS EMARGINATA - BITTER CHERRY
2" CAL/6' HGT | CONT., WELL BRANCHED, SPACE AS SHOWN
- 1 | QUERCUS GARRYANA - WHITE OAK
2" CAL/6' HGT | CONT., WELL BRANCHED, SPACE AS SHOWN
- 1 | PINUS CONTORTA VAR. CONTORTA - SHORE PINE
2" CAL/6' HGT | CONT., WELL BRANCHED, SPACE AS SHOWN

SHRUBS

- 17 | RIBES SANGUINEUM - RED FLOWERING CURRENT
1 GAL | CONT., WELL BRANCHED, SPACE AS SHOWN
- 50 | CEANOTHUS THYRSIFLORUS - BLUE BLOSSOM
1 GAL | CONT., WELL BRANCHED, SPACE AS SHOWN
- 7 | HOLODISCUS DISCOLOR - OCEAN SPRAY
1 GAL | CONT., WELL BRANCHED, SPACE AS SHOWN
- 79 | MAHONIA AQUIFOLIUM - OREGON GRAPE
1 GAL | CONT., WELL BRANCHED, SPACE AS SHOWN
- 3 | SAMBUCUS CAERULEA - BLUE ELDERBERRY
1 GAL | CONT., WELL BRANCHED, SPACE AS SHOWN
- 19 | SPIRAEA DOUGLASSII - DOUGLAS SPIREA
1 GAL | CONT., WELL BRANCHED, SPACE AS SHOWN

WILDFLOWERS

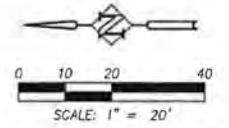
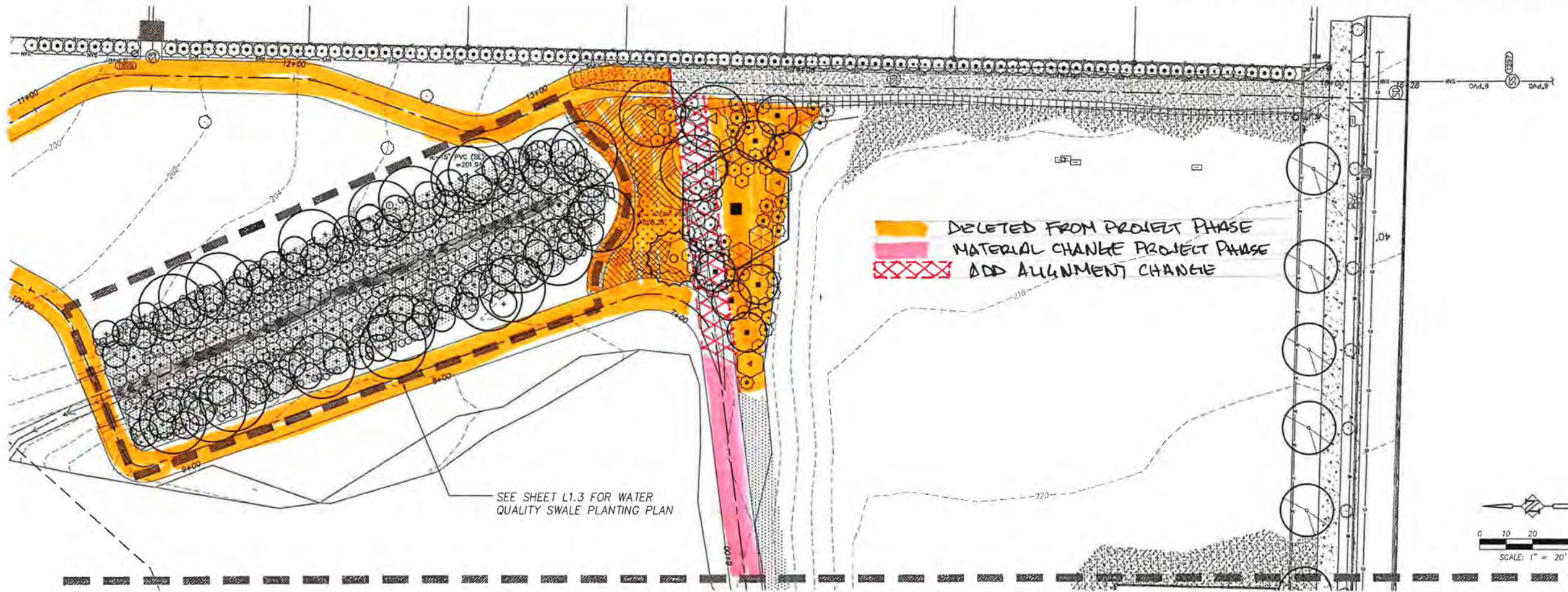
- 257 SF | ASCLEPIAS TUBEROSA - BUTTERFLY WEED
4" POTS | FULL PLANTS, 18" O.C.
- 318 SF | MIMULUS CARDINALIS - SCARLET MONKEYFLOWER
4" POTS | FULL PLANTS, 24" O.C.
- 324 SF | ANTENNARIA DIOICA - PAINTED LADY
4" POTS | FULL PLANTS, 18" O.C.
- 370 SF | LUPINUS RIVULARIS - STREAMBANK LUPINE
4" POTS | FULL PLANTS, 18" O.C.
- 166 SF | ECHINACEA PURPUREA - PURPLE CONEFLOWER
4" POTS | FULL PLANTS, 12" O.C.

SEEDING

PERMANENT SEEDING		LBS OF PLS / ACRE
BROMUS CARINATUS / CALIFORNIA BROME		32.68
ELYMUS GLAUCUS / BLUE WILDRYE		13.07
FESTUCA RUBRA VAR. 'RUBRA' / NATIVE RED FESCUE		13.07
LUPINUS RIVULARIS / STREAMBANK LUPINE		6.54
TOTAL		65.36

IRRIGATED TURF		LBS OF PLS / ACRE
FESTUCA RUBRA SPP. FALLAZ VAR. WINDWARD / WINDWARD CHEMINGS FESCUE		13.15
FESTUCA RUBRA COMMUTATA VAR. GARNET / GARNET CREEPING FESCUE		12.42
LOLIUM PERENNE 'BLAZER' / BLAZER 4 PERENNIAL RYEGRASS		37.27
LOLIUM PERENNE 'EXPRESS II' / EXPRESS II PERENNIAL RYEGRASS		37.27
TOTAL		100.11

SEE SHEET L1.1 FOR GENERAL PLANTING NOTES



BID SET

DATE	NO.	DESCRIPTION
REVISIONS		

DESIGNED:	SWB / JPC
DRAWN:	HHPR
CHECKED:	BRA
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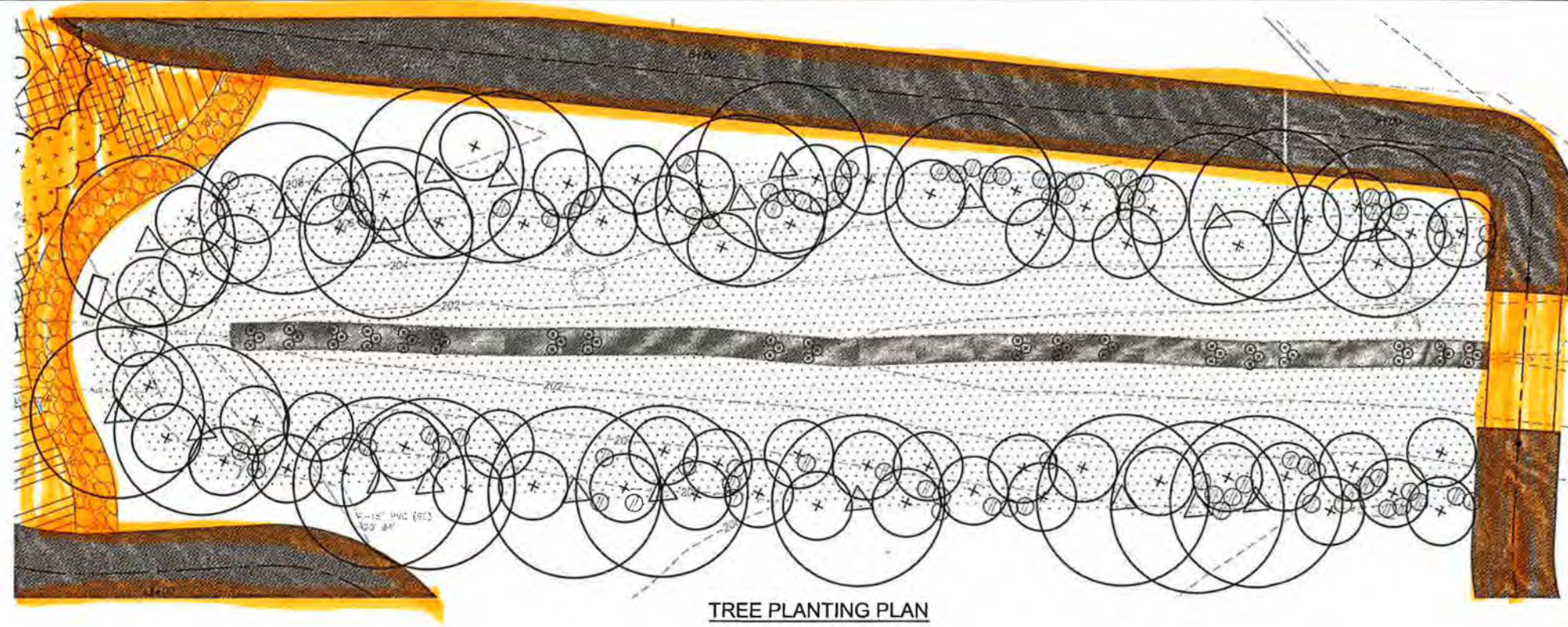


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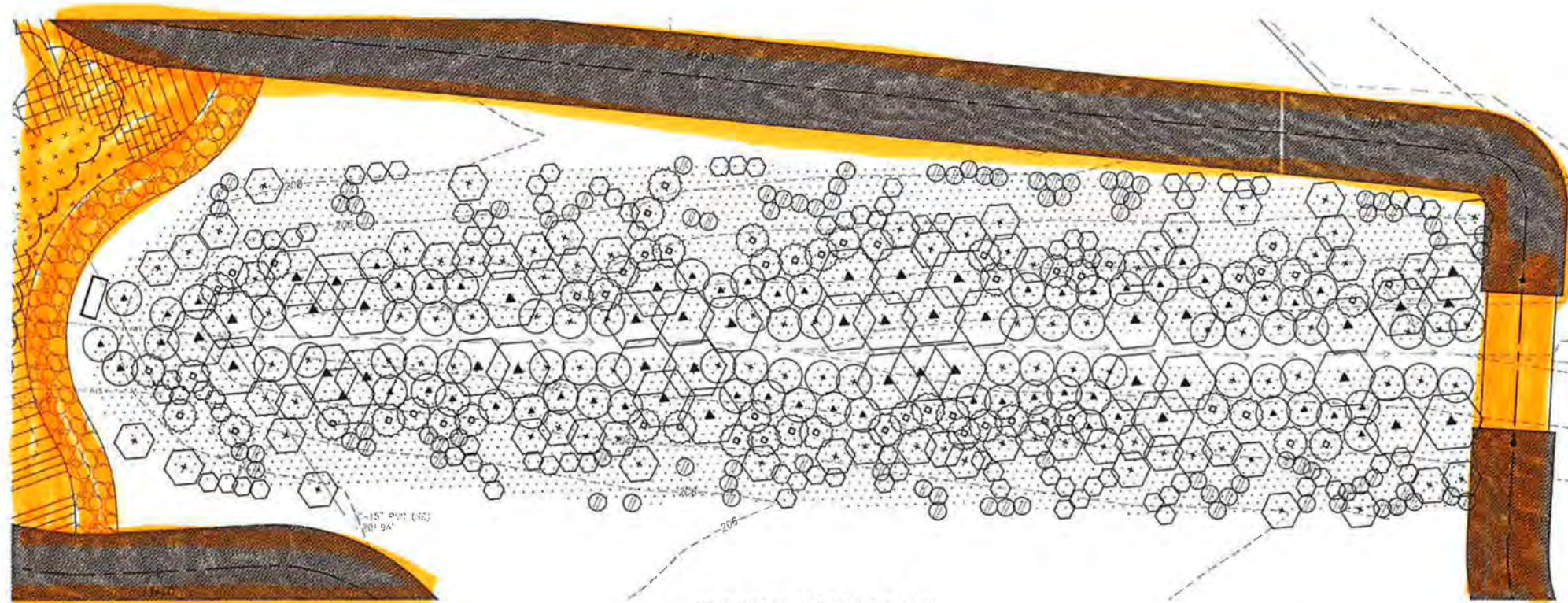
BUTTERFLY GARDEN AND EAST SIDE PLANTING PLAN
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO.
L1.2
JOB NO.
SHR-13

PUSHR (City of Sherwood)SHR-13 (Woodhaven Park)SHR13-DWGCS-SHEETS-SHR13.1.2 0.dwg



TREE PLANTING PLAN



SHRUB PLANTING PLAN

PLANT SCHEDULE

TREES

66	ACER CIRCINATUM - VINE MAPLE
2 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
21	PRUNUS EMARGINATA - BITTER CHERRY
2 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN

SHRUBS

43	CORNUS SERICEA - RED-OZIER DOGWOOD
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
62	RIBES SANGUINEUM - RED FLOWERING CURRENT
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
43	SPIRAEA DOUGLASII - DOUGLAS SPIREA
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
91	POLYSTICHUM MUNITUM - SWORD FERN
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
56	ROSA NUTKANA - NOOTKA ROSE
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
89	SYMPHORICARPOS ALBUS - SNOWBERRY
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
51	LONICERA INVOLUCRATA - BLACK TWN BERRY
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN
57	CAMISSIA QUAMASH - CAMAS
1 GAL	CONT., WELL BRANCHED, SPACE AS SHOWN

WATER QUALITY EMERGENTS

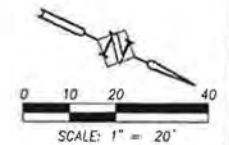
WATER QUALITY EMERGENTS		
CAREX OBNUPTA / SLOUGH SEDGE		890
JUNCUS PATENS / SPREADING RUSH		1,655

SEEDING

WATER QUALITY SEEDING		LBS OF PLS / ACRE
BROMUS CARINATUS / CALIFORNIA BROME		32.68
ELYMUS GLAUCUS / BLUE WLDRYE		13.07
FESTUCA RUBRA VAR. 'RUBRA' / NATIVE RED FESCUE		13.07
LUPINUS RIVULARIS / STREAMBANK LUPINE		6.54
TOTAL		65.36

SEE SHEET L1.1 FOR GENERAL PLANTING NOTES

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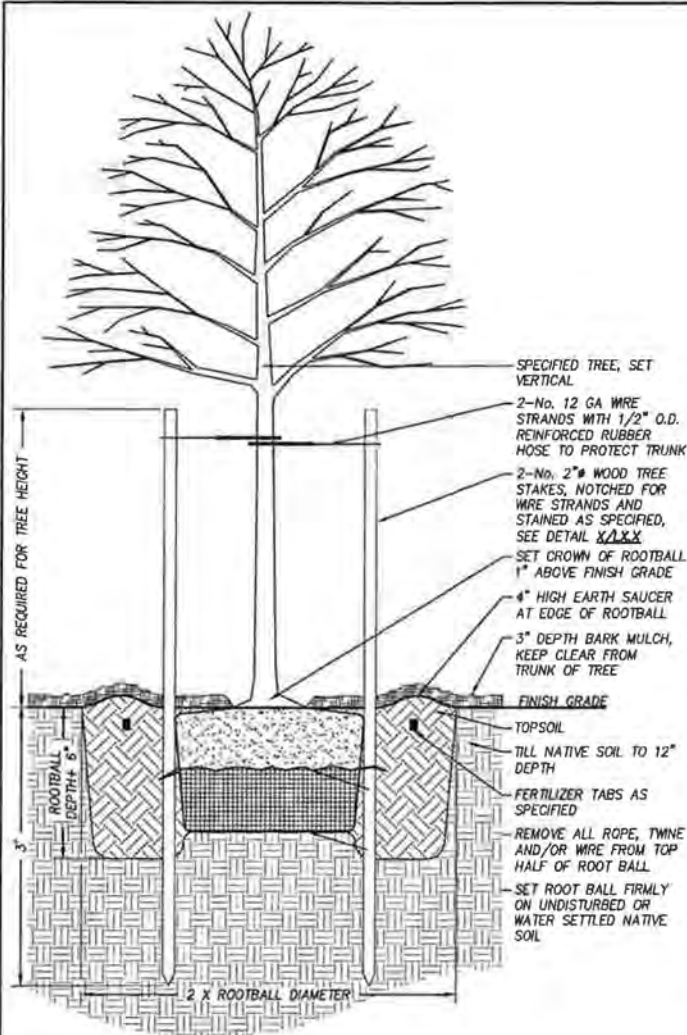
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DRAWN:	HHPR						
CHECKED:	BRA						
DATE:	APRIL 2018						
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DATE	NO.	DESCRIPTION					
REVISIONS							



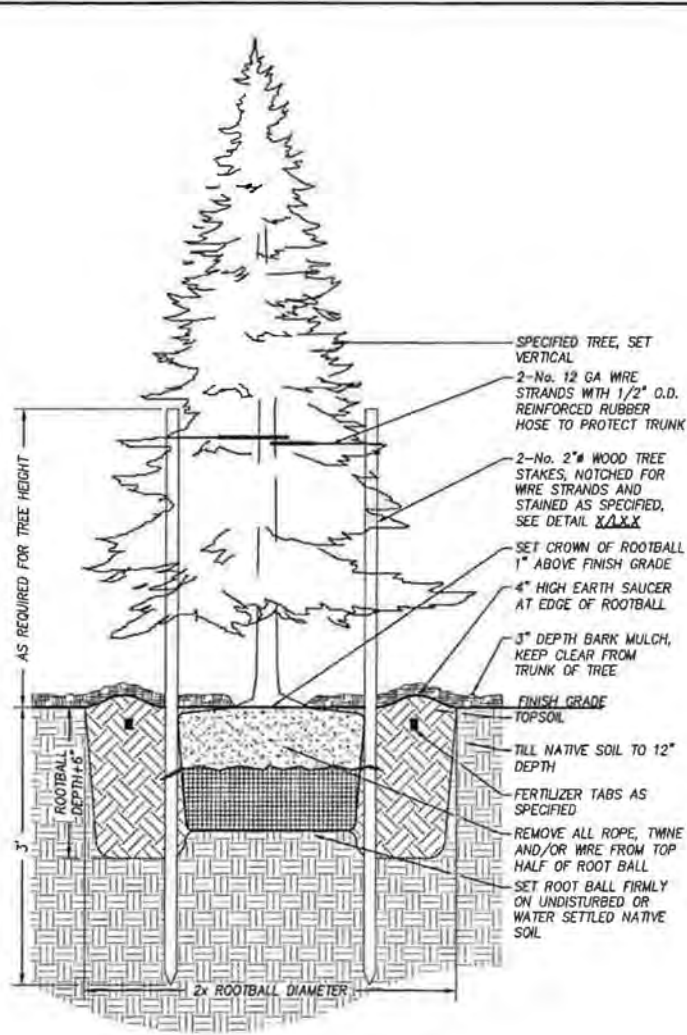
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CWS STORMWATER SWALE PLANTING PLAN
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

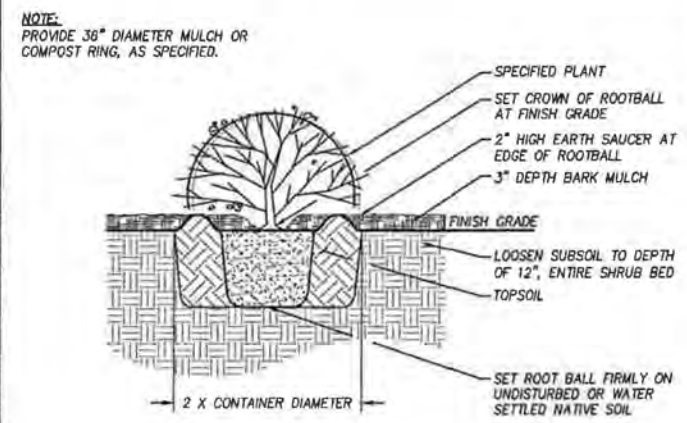
SHEET NO.	L1.3
JOB NO.	SHR-13



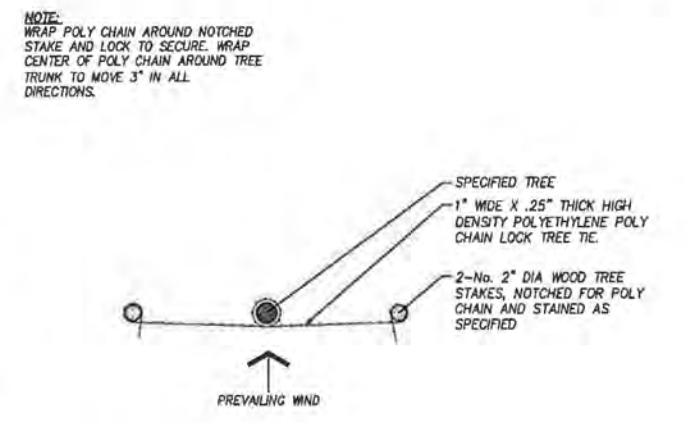
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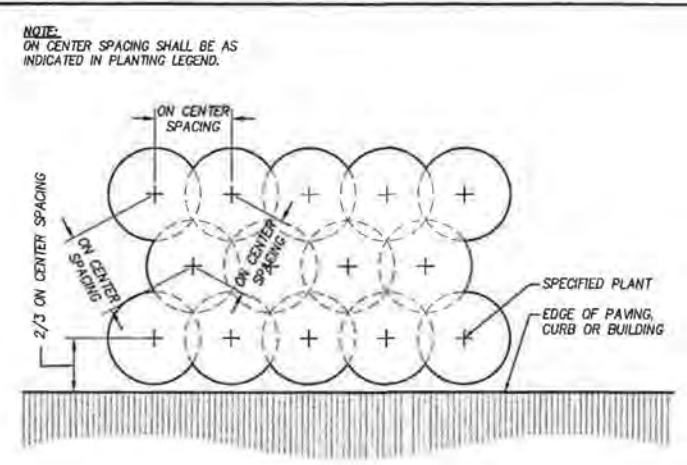
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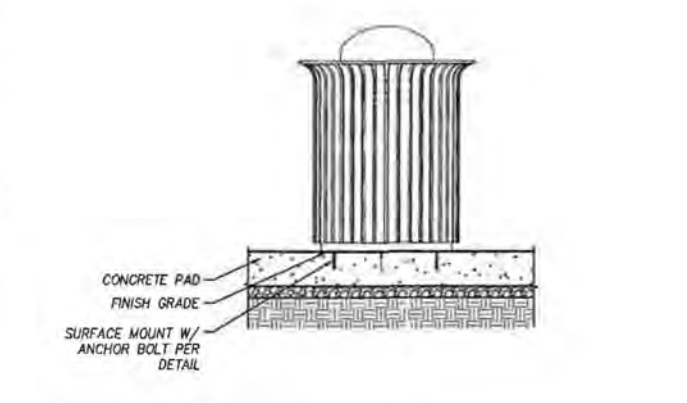
SHRUB PLANTING
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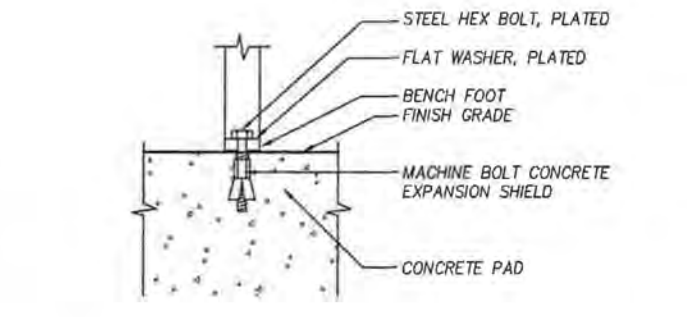
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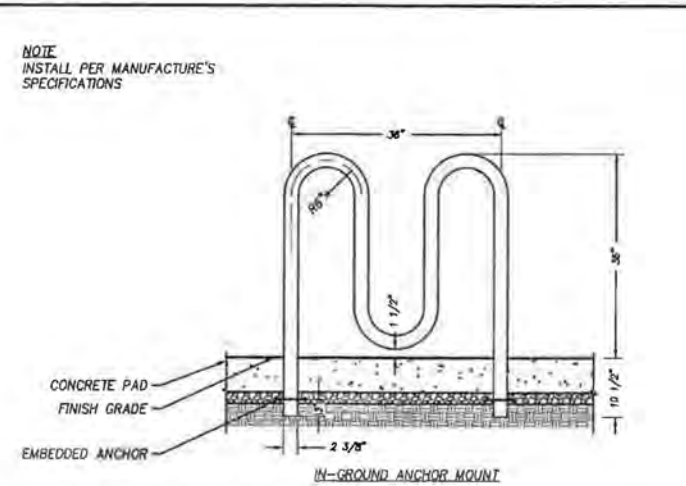
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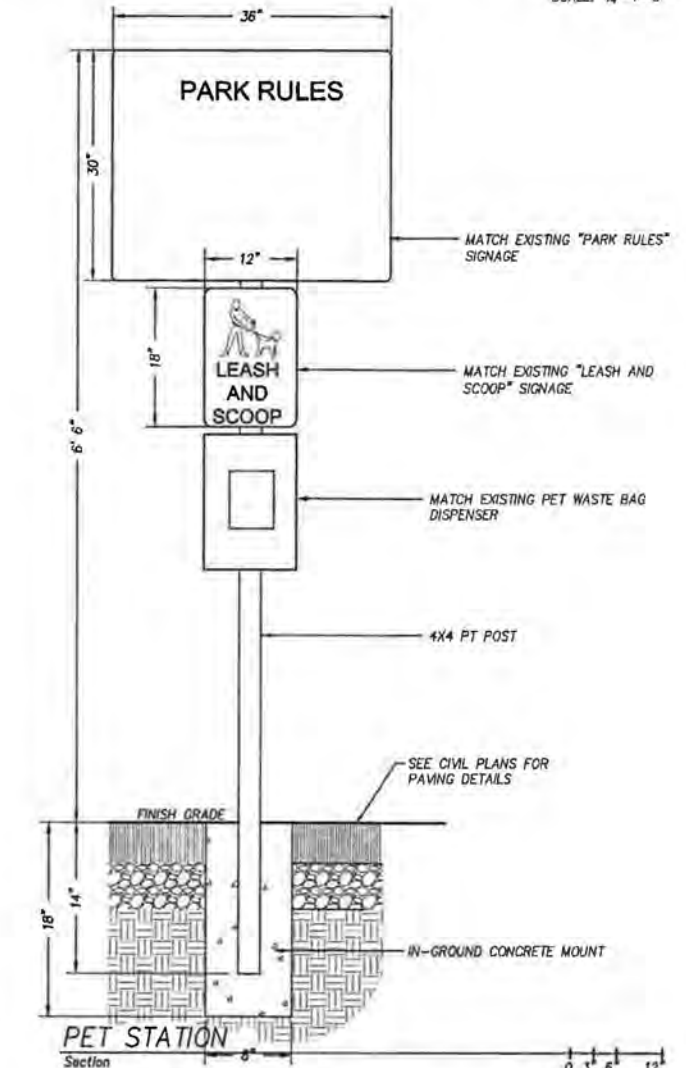
METAL LITTER RECEPTACLE
Section
SCALE: 3/4"=1'-0"



BENCH & LITTER RECEPTACLE ANCHOR
Section
SCALE: 3"=1'-0"



RIBBON STYLE BIKE RACK
Section
SCALE: 3/4"=1'-0"



PET STATION
Section
SCALE: 3"=1'-0"

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DATE	NO.	DESCRIPTION
REVISIONS		

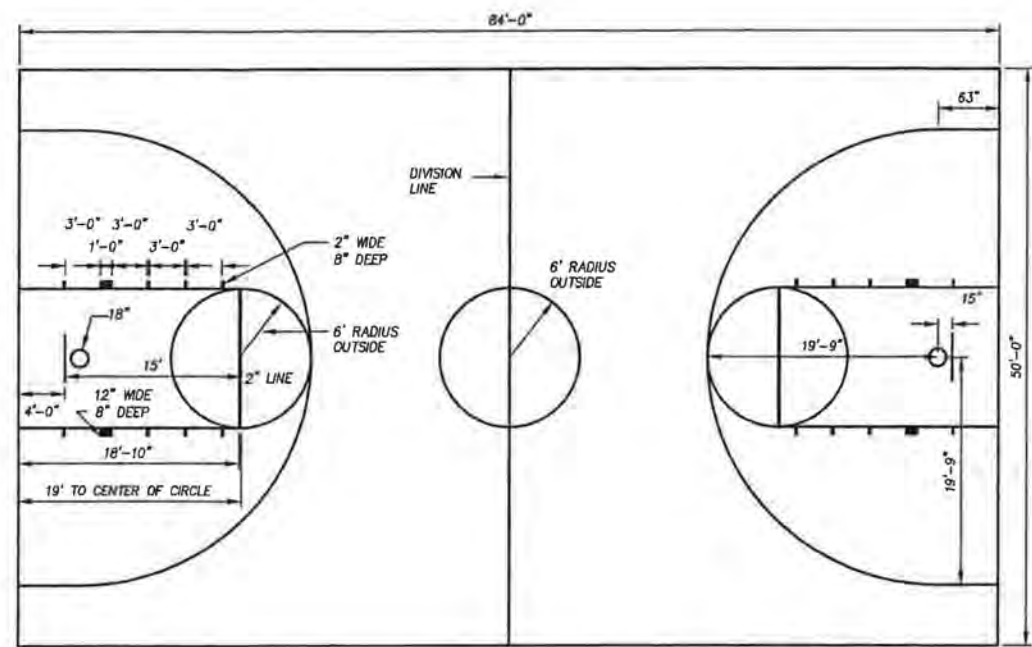
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LANDSCAPE DETAILS
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

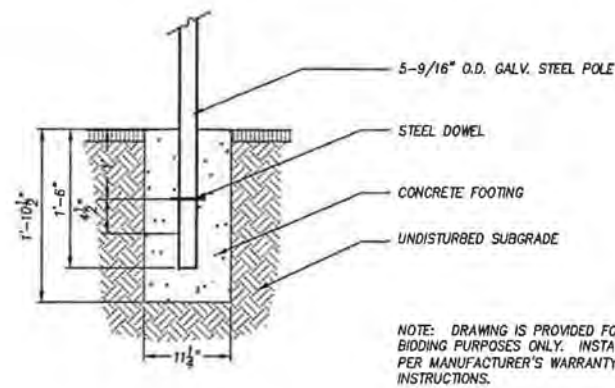
SHEET NO.
L2.0
JOB NO.
SHR-13



- NOTES**
1. ALL LINES SHALL BE 2" WIDE (NEUTRAL ZONES EXCLUDED) END LINES SHALL BE A MINIMUM OF 2" IN WIDTH.
 2. THE COLOR OF THE LANE-SPACE MARKS AND NEUTRAL-ZONE MARKS SHALL CONTRAST WITH THE COLOR OF THE LANE BOUNDARY LINES.
 3. THE THREE-POINT LINE SHALL BE THE SAME COLOR AS THE FREE-THROW LANE LINE AND SEMICIRCLE.

BASKETBALL STRIPING PLAN

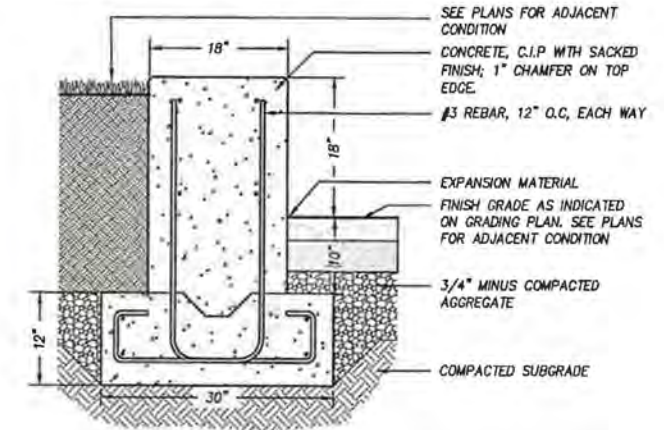
PLAN
SCALE: 1/8" = 1'-0"



NOTE: DRAWING IS PROVIDED FOR BIDDING PURPOSES ONLY. INSTALL POLE PER MANUFACTURER'S WARRANTY INSTRUCTIONS.

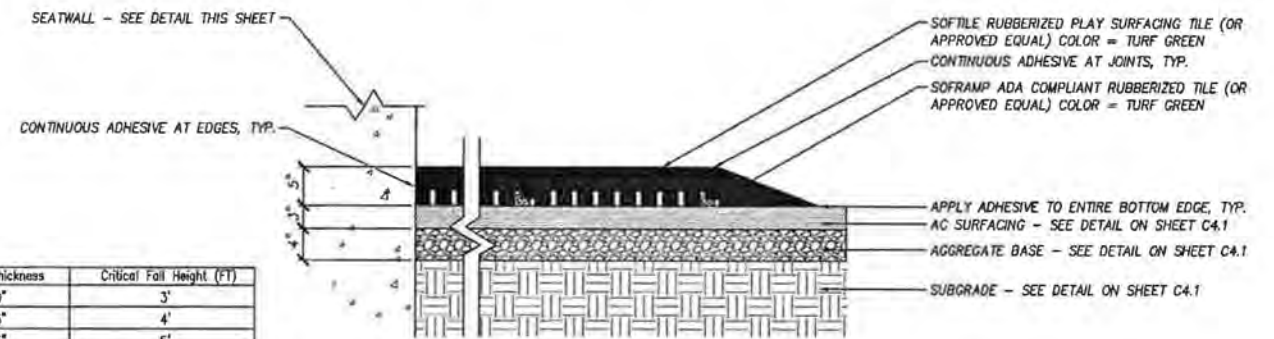
BASKETBALL POLE MOUNTING

Section
SCALE: 3/8" = 1'-0"



SEAT WALL

Section
SCALE: 0 3" 6" 12"

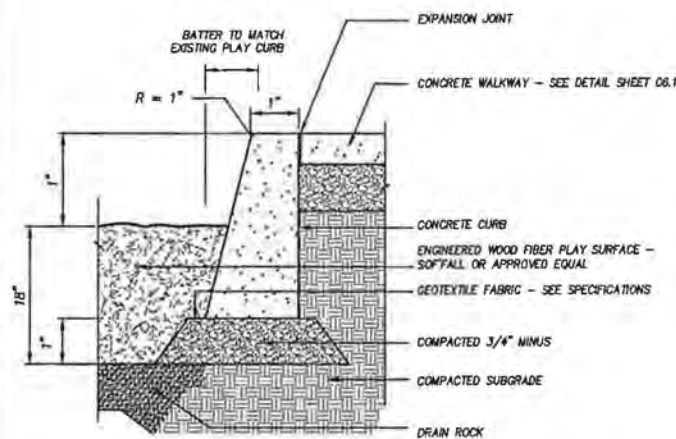


Softfall Thickness	Critical Fall Height (FT)
2.00"	3'
2.25"	4'
2.75"	5'
3.25"	6'
3.75"	7'
4.25"	8'
4.75"	9'
5.00"	10'

RUBBERIZED TILE PLAY SURFACING

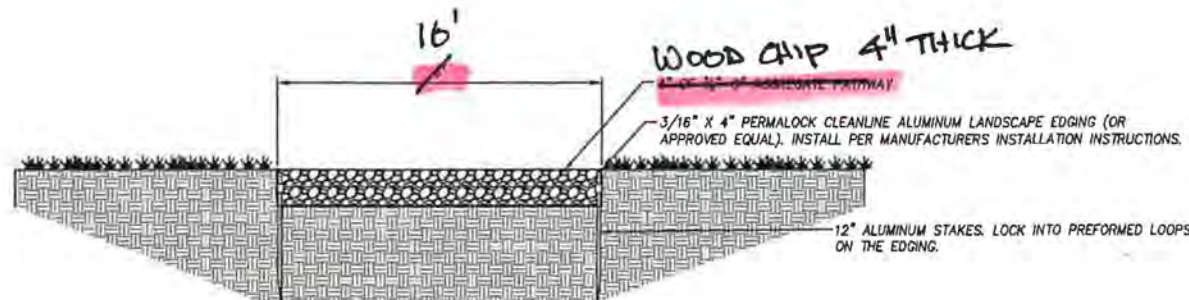
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SCALE: 0 .25 .50 1.0

NOTE: APPLY ADHESIVE AT QUANTITIES SPECIFIED BY MANUFACTURER.



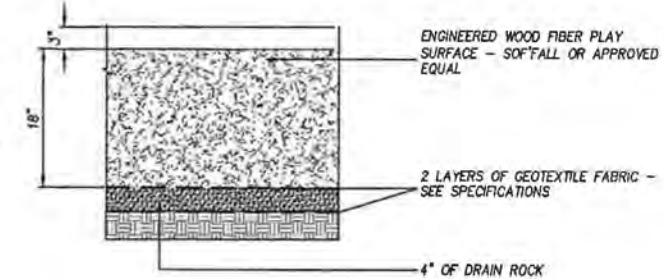
PLAY AREA CURB

Section
SCALE: 0 3" 6" 12"



WOOD CHIP PATHWAY

Section
SCALE: NTS



ENGINEERED WOOD FIBER PLAY SURFACING

Section
SCALE: NTS

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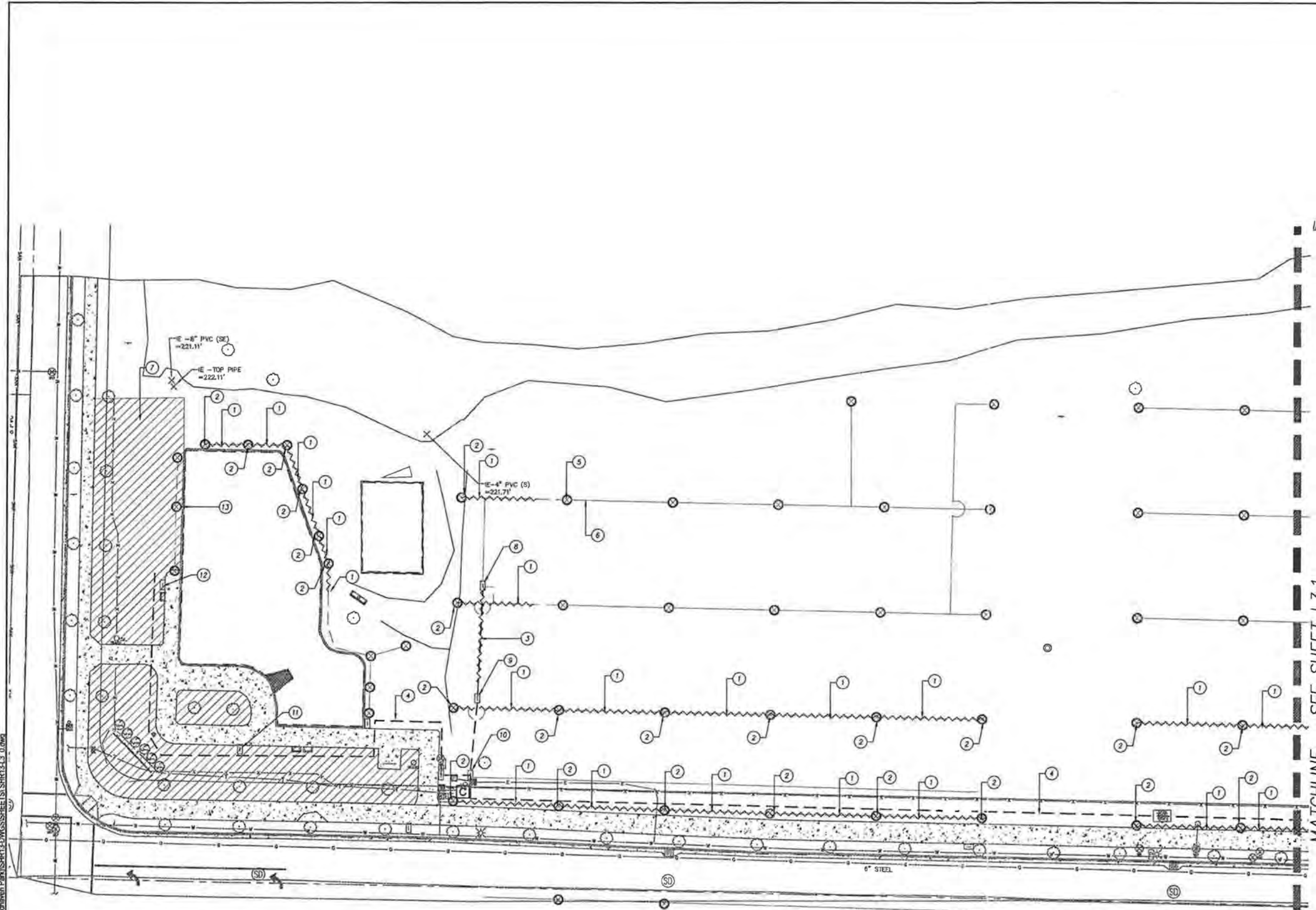
LANDSCAPE DETAILS
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

BID SET

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L2.1
JOB NO.
SHR-13

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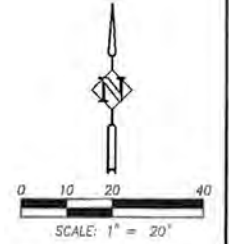
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IRRIGATION DEMO NOTES

1. REMOVE EXISTING IRRIGATION LATERAL LINE. CAP LINE.
2. REMOVE EXISTING IRRIGATION HEAD. RETURN TO OWNER.
3. REMOVE EXISTING IRRIGATION MAINLINE. CAP MAINLINE DOWNSTREAM OF VALVES.
4. EXISTING IRRIGATION 2" MAINLINE TO REMAIN, TYP. VERIFY EXACT LOCATION IN FIELD.
5. EXISTING IRRIGATION HEAD TO REMAIN, TYP. VERIFY EXACT LOCATIONS IN FIELD.
6. EXISTING IRRIGATION LATERALS TO REMAIN, TYP. VERIFY EXACT LOCATION IN FIELD.
7. EXISTING IRRIGATION ZONES TO REMAIN, TYP.
8. EXISTING REMOTE CONTROL VALVES 1B AND 2B. REMOVE AND RETURN TO OWNER.
9. EXISTING REMOTE CONTROL VALVES 3B AND 4B. PROTECT IN PLACE.
10. EXISTING REMOTE CONTROL VALVE 1A. PROTECT IN PLACE.
11. EXISTING REMOTE CONTROL VALVES 3A, 4A AND 5A. PROTECT IN PLACE.
12. EXISTING REMOTE CONTROL VALVE 2A. PROTECT IN PLACE.
13. RELOCATE HEADS AND LATERAL LINES TO ACCOMMODATE NEW SIDEWALK. SEE L3.2

MATCHLINE - SEE SHEET L3.1



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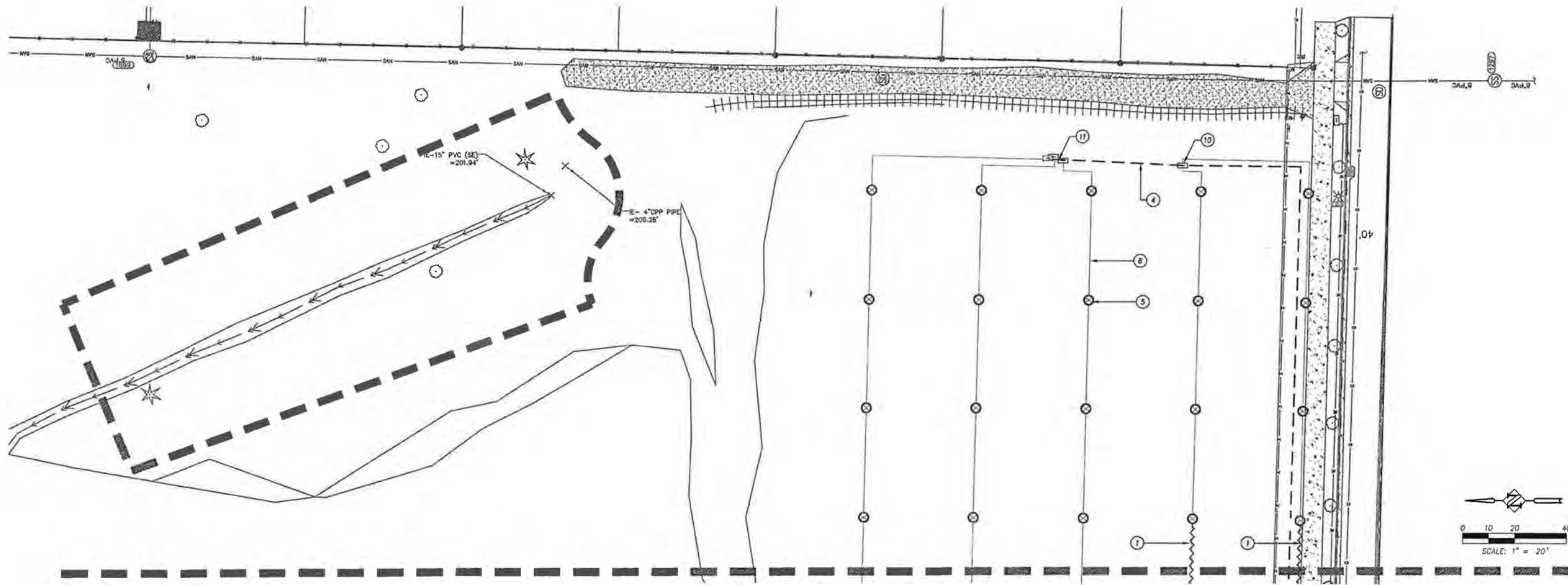
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IRRIGATION DEMO PLAN
WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

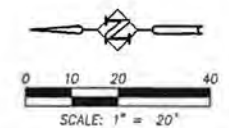
SHEET NO.
L3.0
 JOB NO.
 SHR-13

IRRIGATION DEMO NOTES

1. REMOVE EXISTING IRRIGATION LATERAL LINE. CAP LINE.
2. REMOVE EXISTING IRRIGATION HEAD. RETURN TO OWNER.
3. REMOVE EXISTING IRRIGATION MAINLINE. CAP MAINLINE DOWNSTREAM OF VALVES.
4. EXISTING IRRIGATION 2" MAINLINE TO REMAIN, TYP. VERIFY EXACT LOCATION IN FIELD.
5. EXISTING IRRIGATION HEAD TO REMAIN, TYP. VERIFY EXACT LOCATIONS IN FIELD.
6. EXISTING IRRIGATION LATERALS TO REMAIN, TYP. VERIFY EXACT LOCATION IN FIELD.
9. EXISTING IRRIGATION ZONES TO REMAIN, TYP.
10. EXISTING REMOTE CONTROL VALVES 7B, 8B AND 9B. PROTECT IN PLACE.
11. EXISTING REMOTE CONTROL VALVES 5B AND 6B. PROTECT IN PLACE.



MATCHLINE - SEE SHEET L3.0



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**IRRIGATION DEMO PLAN
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON**

SHEET NO.
L3.1
 JOB NO.
 SHR-13

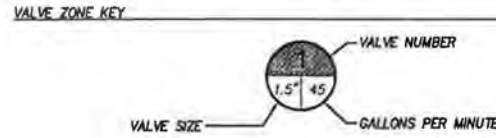
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IRRIGATION LEGEND

EQUIPMENT

SYMBOL	DESCRIPTION	DETAIL
[C]	CONTROLLER - CALSENSE MODEL ET2000e-24	SEE SHEET L3.4
[X]	BALL VALVE - NIBCO T-560 OR APPROVED EQUAL	SEE SHEET L3.4
[R]	REMOTE CONTROL VALVE - RAINBIRD PEB OR APPVD EQ, SIZE AS SHOWN REMOTE CONTROL VALVE	SEE SHEET L3.4
[C]	QUICK COUPLER - RAINBIRD 44 LRC OR APPROVED EQUAL	SEE SHEET L3.4
[S]	SLEEVING - 4" SLEEVE FOR PIPES < 2", 6" SLEEVE FOR PIPES 2.5"-4"	SEE SHEET L3.4

---	MAINLINE - 2" SCH. 40 PVC	SEE SHEET L3.4
---	LATERAL LINE - 3/4", CLASS 200 PVC	SEE SHEET L3.4
---	LATERAL LINE - 1", 1.25" & 1.5" CLASS 200 PVC	SEE SHEET L3.4
---	LATERAL LINE - SIZE AS INDICATED, CLASS 200 PVC	SEE SHEET L3.4



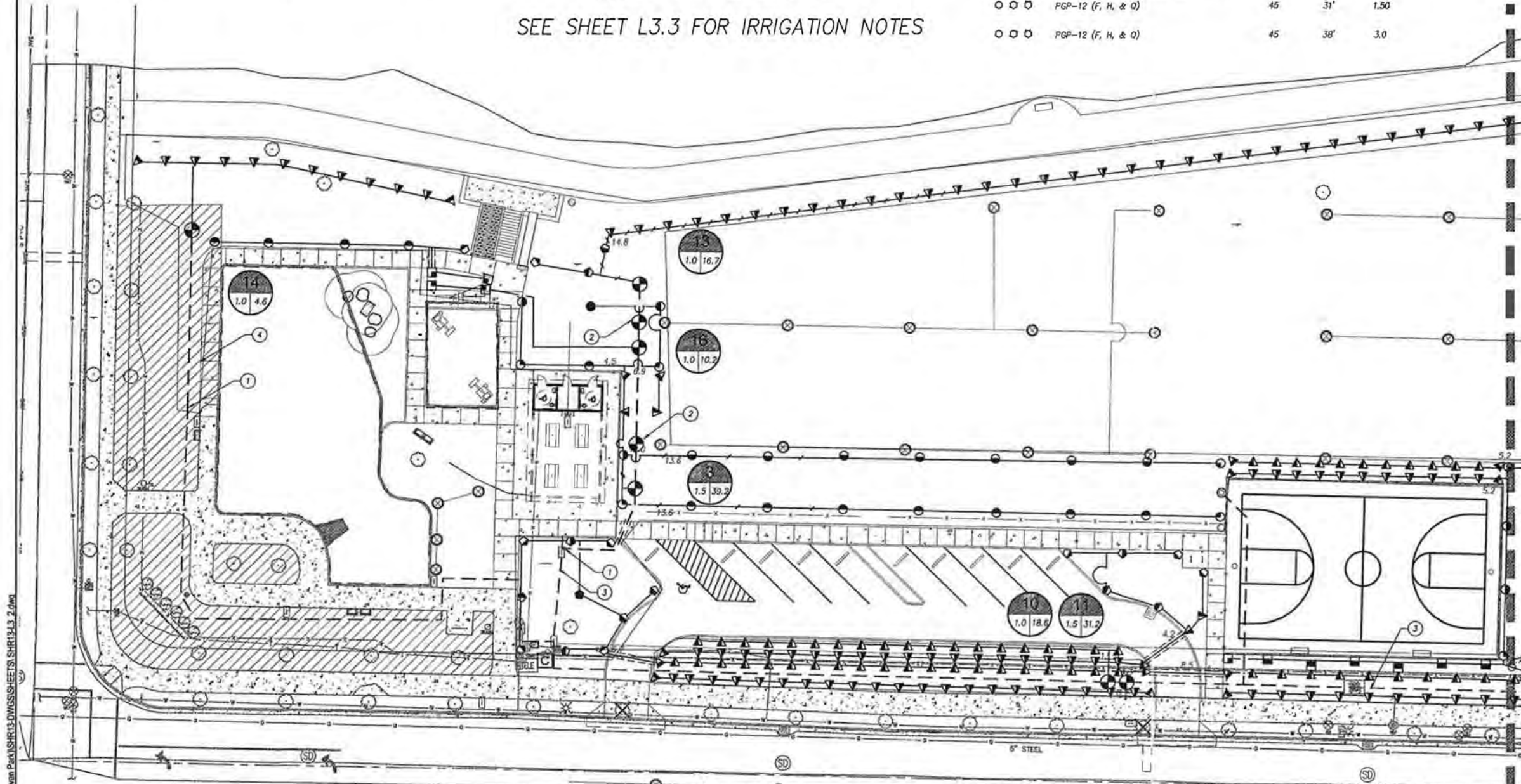
SEE SHEET L3.3 FOR IRRIGATION NOTES

HEAD SCHEDULE

SYMBOL	DESCRIPTION	PSI	RADIUS	GPM
[H]	HUNTER MPR40 HEADS W/ MP ROTATOR NOZZLES			
[M]	MPSS530, MPLCS515 & MPRCS515	30	5X30', 5'X15'	.44, .22
[V]	MP1000 (360, 180, 90)	30	8'-15'	.75, .37, .19
[R]	MP2000 (360, 180, 90)	30	13'-21'	1.47, .74, .40
[B]	MP3000 (360, 180, 90)	30	22'-30'	3.64, 1.82, .88
[U]	HUNTER PGP ULTRA ROTORS W/ BLUE STANDARD NOZZLES			
[O]	PGP-12 (F, H, & O)	45	31'	1.50
[O]	PGP-12 (F, H, & O)	45	38'	3.0

IRRIGATION CONSTRUCTION NOTES

1. LOCATE AND EXTEND EXISTING IRRIGATION MAINLINE AND COMMON WIRE TO SERVE NEW ZONES. CONNECT CONTROL WIRES FROM CONTROLLER TO NEW REMOTE CONTROL VALVES.
2. REPLACE EXISTING REMOTE CONTROL VALVE. CONNECT EXISTING IRRIGATION ZONE TO NEW VALVE.
3. APPROXIMATE LOCATION OF EXISTING IRRIGATION. VERIFY EXACT LOCATION IN FIELD.
4. ADJUST EXISTING IRRIGATION ZONE TO ACCOMMODATE NEW WALKWAY. PROVIDE NEW HEADS, NOZZLES AND LATERAL LINE AS NEEDED TO ADJUST THE IRRIGATION ZONE TO ACHIEVE FULL COVERAGE IN EXISTING LAWN AREAS.



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DATE	NO.	DESCRIPTION
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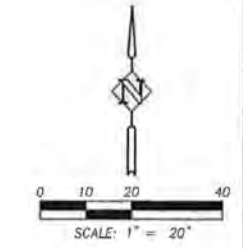
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IRRIGATION PLAN
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO.
L3.2

JOB NO.
SHR-13






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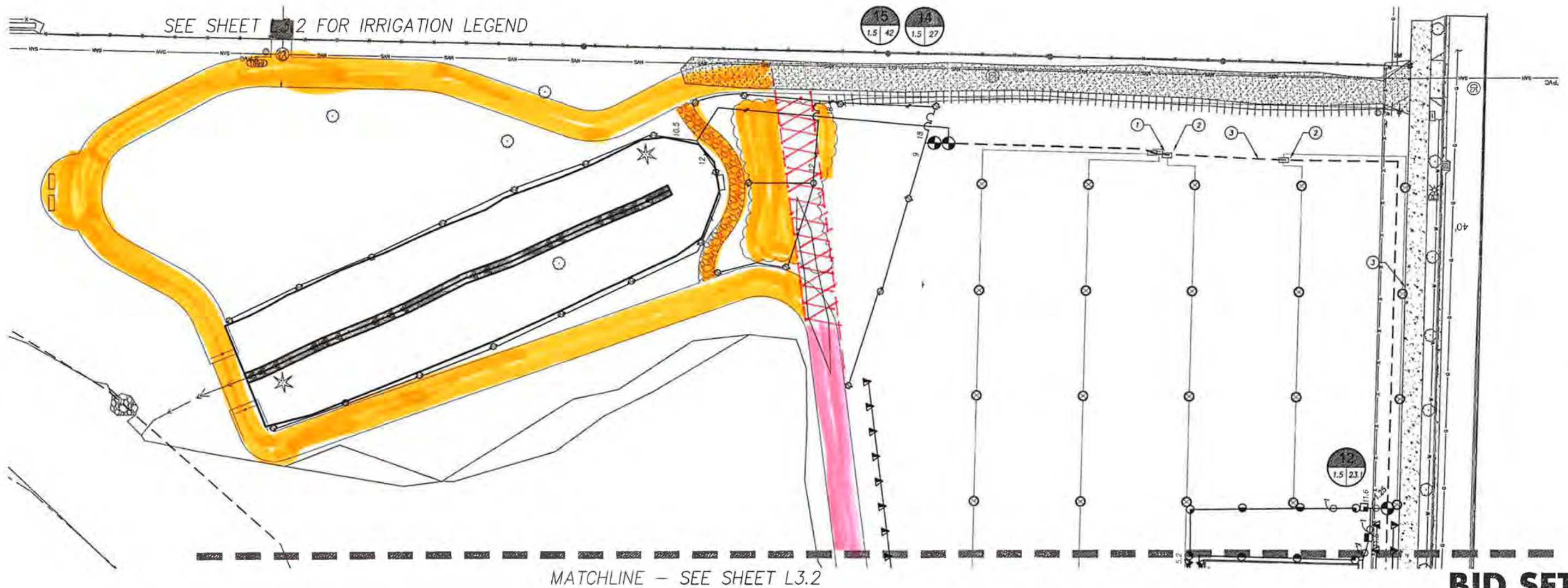
IRRIGATION NOTES

1. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION.
2. IRRIGATION PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. PLACE LINES IN A COMMON TRENCH WHENEVER POSSIBLE. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES.
3. IRRIGATION IS COORDINATED WITH THE PLANTING PLAN AND SITE IMPROVEMENTS AND IS DESIGNED WITH TRIANGULAR SPACING GIVING HEAD TO HEAD COVERAGE. COORDINATE IRRIGATION HEAD LAYOUT WITH NEW PLANT MATERIALS. LOCATE SPRAY HEADS 30" FROM BASE OF TREE. DO NOT ALTER HEAD LOCATION, PIPE LAYOUT, OR VALVE LOCATION WITHOUT WRITTEN APPROVAL FROM THE CONSTRUCTION MANAGER. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES OCCUR BETWEEN THE PLANS AND FIELD CONDITIONS.
4. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND PROPERLY ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND MINIMIZATION OF OVER SPRAY ONTO WALKS, BUILDINGS, PARKING AREAS, ETC.
5. ALL PIPE SIZES INDICATED ARE MINIMUMS. CONTRACTOR MAY NOT DECREASE PIPE SIZE. LARGER PIPE SIZES MAY BE USED AT NO ADDITIONAL COST TO OWNER.
6. INSTALL ALL IRRIGATION PIPE AND CONTROL WIRES IN MINIMUM 4" PVC SLEEVE BELOW ALL PAVED SURFACES UNLESS OTHERWISE INDICATED ON THE PLANS. INSTALL SLEEVES PRIOR TO PLACEMENT OF PAVEMENTS AND PAVEMENT SUB-BASE.
7. COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROL VALVES WITH PROJECT MANAGER. COORDINATE ALL WORK WITH OTHER TRADES, I.E. ELECTRICAL, MASONRY, ETC.
8. CONTRACTOR TO PROGRAM AUTOMATIC CONTROLLER TO ALLOW FOR THE EQUIVALENT OF 1" OF WATER PER WEEK, OR PER SITE AND PLANTING NEEDS FOR BEST PLANT HEALTH.
9. ALL PIPES SHALL BE TRENCHED. PROVIDE POSITIVE DRAINAGE OF MAINLINE. PLACE MANUAL DRAIN AT LOW POINTS IN MAINLINE. IDENTIFY LOCATIONS ON AS-BUILTS.
10. USE 45° ELLS INSTEAD OF 90° ELLS ON ALL MAINLINES 2-1/2" AND LARGER. INSTALL CONCRETE THRUST BLOCKS AT ALL MAINLINE CHANGES IN DIRECTION. POUR MINIMUM OF 1 CUBIC FOOT OF CONCRETE ON UNDISTURBED SOIL WRAP PIPE IN PLASTIC WRAP PRIOR TO COVERING WITH CONCRETE.
11. CONTRACTOR TO INSTALL CONTROLLER AND ACCESSORIES AS REQUIRED. CONTRACTOR TO FURNISH CONTROL WIRES FROM VALVES TO CONTROLLER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 110 VOLT SERVICE FROM BUILDING AND CONNECTION TO CONTROLLER SERVICE.
12. INSTALL ONE (1) ADDITIONAL RED CONTROL WIRE AND ONE (1) ADDITIONAL WHITE CONTROL WIRE FROM CONTROLLER TO END OF MAINLINE.

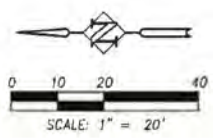
IRRIGATION CONSTRUCTION NOTES

1. LOCATE AND EXTEND EXISTING IRRIGATION MAINLINE TO SERVE NEW ZONES. CONNECT NEW COMMON & CONTROL WIRES FROM CONTROLLER TO NEW REMOTE CONTROL VALVES.
2. CONNECT EXISTING REMOTE CONTROL VALVES TO NEW CONTROLLER.
3. APPROXIMATE LOCATION OF EXISTING IRRIGATION. VERIFY EXACT LOCATION IN FIELD.
4. CONNECT NEW REMOTE CONTROL VALVE TO EXISTING MAINLINE AND NEW CONTROLLER.

 DELETED FROM PROJECT PHASE
 MATERIAL CHANGE PROJECT PHASE
 ADD ALIGNMENT CHANGE



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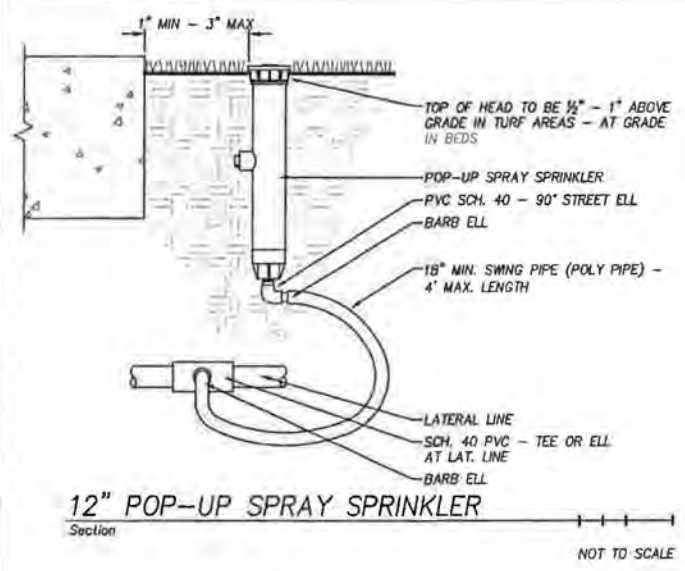


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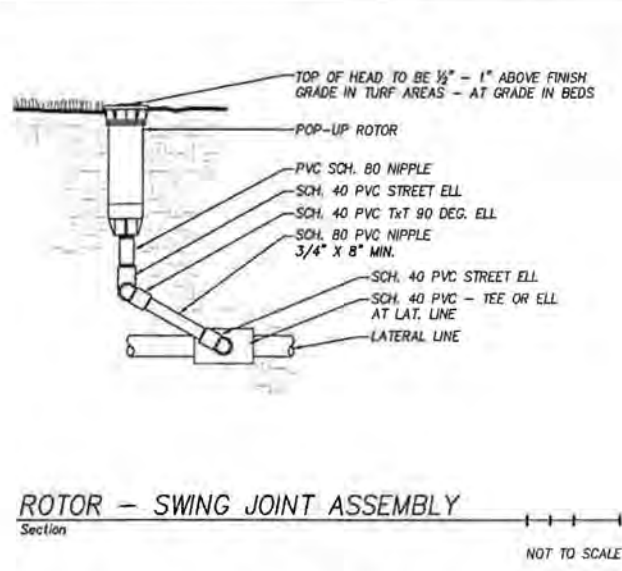
IRRIGATION PLAN
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON

SHEET NO.	L3.3
JOB NO.	SHR-13

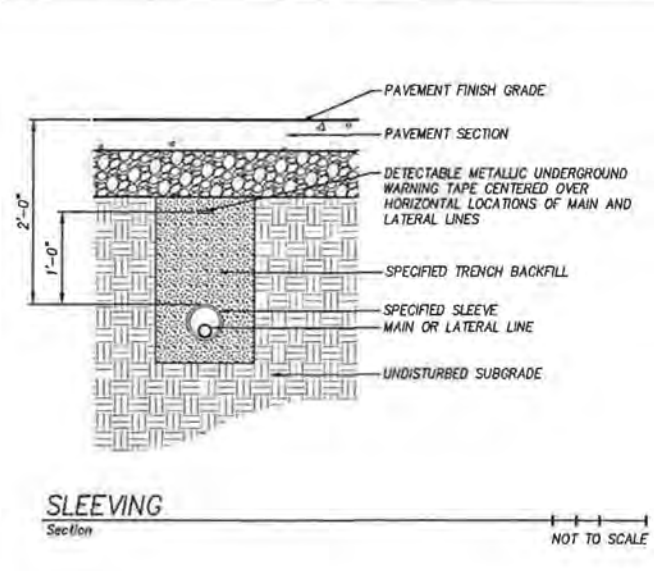
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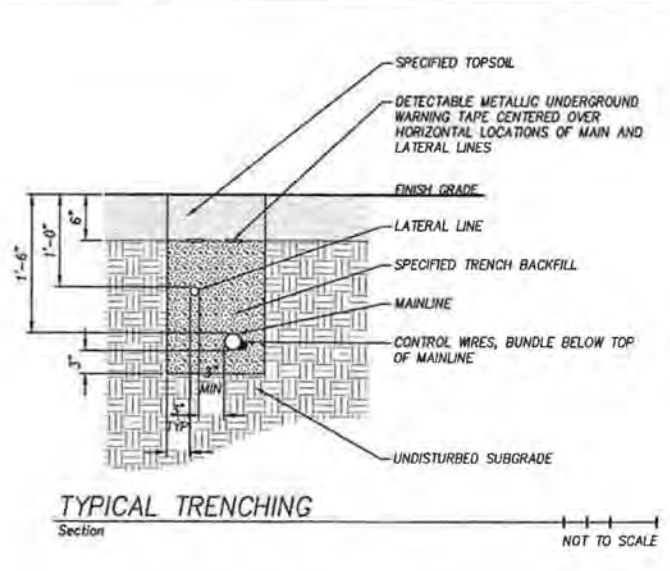
12" POP-UP SPRAY SPRINKLER
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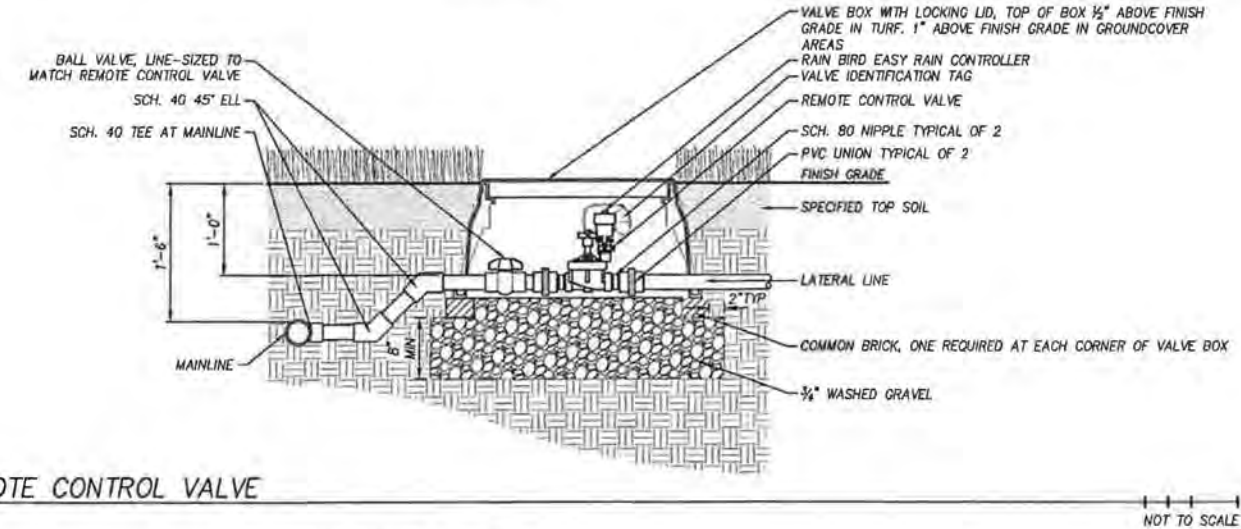
ROTOR - SWING JOINT ASSEMBLY
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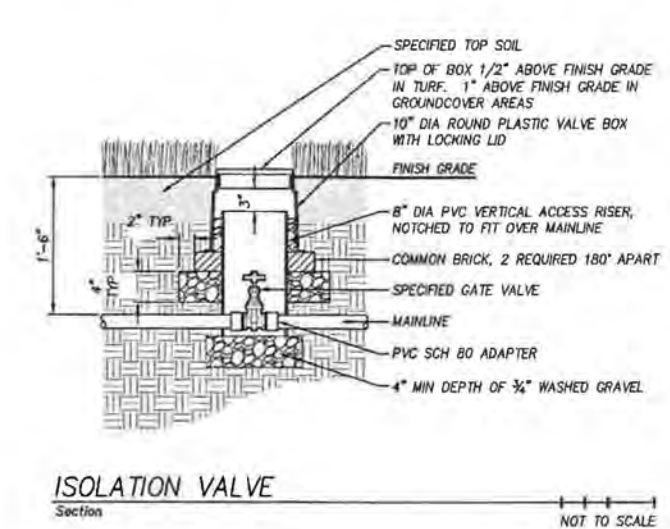
SLEEVING
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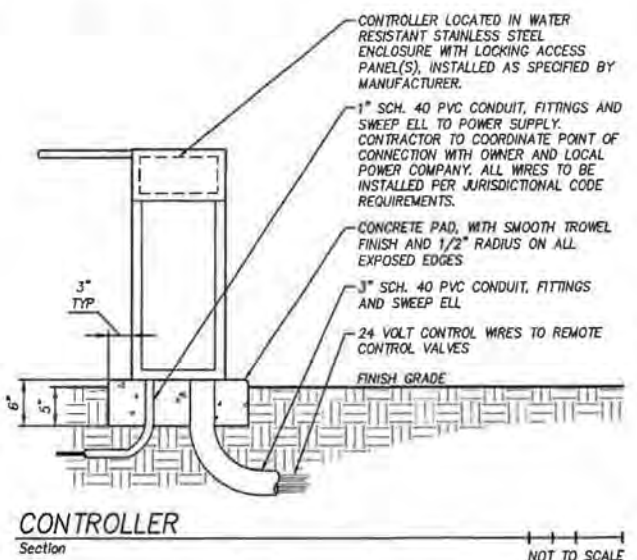
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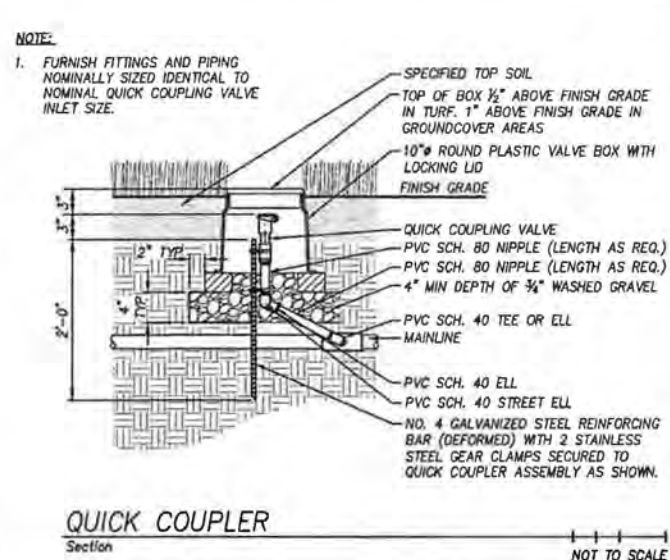
REMOTE CONTROL VALVE
Section
NOT TO SCALE



ISOLATION VALVE
Section
NOT TO SCALE



CONTROLLER
Section
NOT TO SCALE



QUICK COUPLER
Section
NOT TO SCALE

NOTE:

- FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

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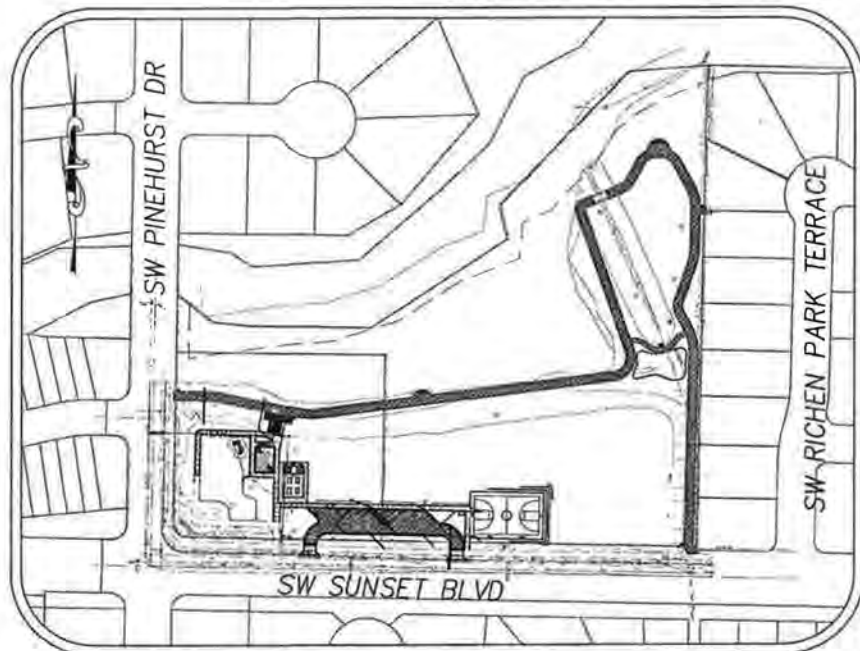
IRRIGATION DETAILS
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WOODHAVEN PARK PHASE 2 EROSION AND SEDIMENT CONTROL PLAN



SITE MAP NOT TO SCALE



VICINITY MAP NOT TO SCALE

PROJECT LOCATION:
WOODHAVEN PARK
SHERWOOD, OR 97140
WASHINGTON COUNTY, OREGON
LATITUDE = N45-20-59, LONGITUDE = W122-51-20

ATTENTION EXCAVATORS:
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	BRA
DRAWN:	HHPR
CHECKED:	BRA
DATE:	OCTOBER 30, 2015

DEVELOPER
DEVELOPER/COMPANY: CITY OF SHERWOOD
CONTACT: KRISTEN SWITZER COMMUNITY SERVICES DIRECTOR
ADDRESS: 22550 SW PINE STREET
SHERWOOD, OR 97140
PHONE: 503-625-4210
EMAIL: SWITZERK@SHERWOODOREGON.GOV

PLANNING / ENGINEERING / SURVEYING FIRM
ENGINEERING FIRM: HARPER HOUF PETERSON RIGHELLIS INC.
CONTACT: BEN AUSTIN
ADDRESS: 205 SE SPOKANE STREET STE 200
PORTLAND, OREGON 97202
PHONE: 503-221-1131
EMAIL: BEN@HHPR.COM

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

* PARTIALLY DEVELOPED PARK

DEVELOPED CONDITIONS

* COMMUNITY PARK

NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE

- * CLEARING (WEEK 1 - 3)
- * MASS GRADING (WEEK 3 - 6)
- * UTILITY INSTALLATION (WEEK 3 - 6)
- * SITE CONSTRUCTION (WEEK 6 - 10)
- * FINAL STABILIZATION (WEEK 10 - 12)

TOTAL SITE AREA = 6.19 ACRES

TOTAL DISTURBED AREA = 1.0 ACRES

SITE SOIL CLASSIFICATION:
PREDOMINATELY QUATAMA LOAM.

THESE SOILS HAVE A LOW SUSCEPTIBILITY TO EROSION. EROSION CONTROL MEASURES WILL BE INSTALLED BEFORE CONSTRUCTION BEGINS.

RECEIVING WATER BODIES:

CEDAR CREEK

PROPERTY DESCRIPTION:

STREET LOCATION: SW SUNSET BLVD. AT SW PINEHURST DR.
TAX LOT AND MAP NO.: TL 1800 AND TL1900; MAP 2S 1 31 D8
EXISTING USE: NEIGHBORHOOD PARK
EXISTING ZONE DESIGNATION: LDR-PUD
SITE AREA: 6.19 AC.

PERMITTEE'S SITE INSPECTOR:

COMPANY/AGENCY: CITY OF SHERWOOD
CONTACT: ANDREW STIRLING
PHONE: 503-925-2307
E-MAIL: STIRLINGA@SHERWOODOREGON.COM
DESCRIPTION OF EXPERIENCE: 5 YEARS OF CONSTRUCTION AND EROSION AND SEDIMENT CONTROL INSPECTION

SHEET INDEX

EROSION AND SEDIMENT CONTROL PLANS

- EC1 ESC - COVER SHEET
- EC2 ESC - CLEARING AND DEMOLITION
- EC3 ESC - GRADING AND UTILITY
- EC4 ESC - DETAILS

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. All permit registrants must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit.
2. The ESCP measures shown on this plan are minimum requirements for anticipated site conditions. During the construction period, upgrade these measures as needed to comply with all applicable local, state, and federal erosion and sediment control regulations.
3. Submission of all ESCP revisions is not required. Submit all of the ESCP revisions to only under specific conditions. Submit all necessary revision to DEQ or Agent.
4. Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion.
5. Identify, mark, and protect (by fencing off or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas.
6. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed mix used. Erosion and sediment control measures including perimeter sediment control must be in place before vegetation is disturbed and must remain in place and be maintained, repaired, and promptly implemented following procedures established for the duration of construction, including protection for active storm drain inlets and catch basins and appropriate non-stormwater pollution controls.
8. Establish concrete truck and other concrete equipment washout areas before beginning concrete work.
9. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses and for all roadways including gravel roadways.
10. Establish material and waste storage areas, and other non-stormwater controls.
11. Prevent tracking of sediment onto public or private roads using BMPs such as: gravelled (or paved) exits and parking areas, gravel or unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land-disturbing activities.
12. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site.
13. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills, vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, leftover paints, solvents, and glues from construction operations.
14. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies.
15. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil.
16. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone.
17. If a stormwater treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain plan approval before operating the treatment system. Operate and maintain the treatment system according to manufacturer's specifications.
18. At the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters.
19. Construction activities must avoid or minimize excavation and creation of bare ground during wet weather October 01 - May 31.
20. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal.
21. Other sediment barriers (such as logbooms): remove sediment before it reaches two inches depth above ground height, and before BMP removal.
22. Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project.
23. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean up of sediment shall be performed according to the Oregon Division of State Lands required timeframe.
24. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments.
25. Provide permanent erosion control measures on all exposed areas. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. However, do remove all temporary erosion control measures as exposed areas become stabilized, unless doing so conflicts with local requirements. Properly dispose of construction materials and waste, including sediment retained by temporary BMPs.
26. If vegetative seed mixes are specified, seeding must take place no later than September 1; the type and percentages of seed in the mix must be identified on the plans.
27. All pumping of sediment laden water shall be discharged over an undisturbed, preferably vegetated area, and through a sediment control BMP i.e. (filter bog).
28. All exposed soils must be covered during the wet weather period, October 01 - May 31.

THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-CN PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.

BMP MATRIX FOR CONSTRUCTION PHASES
REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S.

	CLEARING	MASS GRADING	UTILITY INSTALLATION	SITE CONSTRUCTION	FINAL STABILIZATION	WET WEATHER (OCT. 1 - MAY 31ST)
EROSION PREVENTION						
PRESERVE NATURAL VEGETATION	X	X	X	X	X	X
GROUND COVER						
HYDRAULIC APPLICATIONS						
PLASTIC MULCHING						
MATTING						
EROSION CONTROL	X	X	X	X	X	X
TEMPORARY PERMANENT SEEDING	X	X	X	X	X	X
SURFACEZING						
SEDIMENT CONTROL						
SEDIMENT FENCE PERIMETER	X	X	X	X		X
SEDIMENT FENCE (STORM)						
STRIP MATS						
FILTER BERM						
MUD PROTECTION	X	X	X	X		X
SEDIMENTATION						
SEDIMENT TRAP						
SOIL EROSION CONTROL						
CONSTRUCTION ENTRANCE	X	X	X	X		X
PIPE SLOPE DRAIN						
OUTLET PROTECTION						
SURFACE BOUNDING						
CHECK DAM						
POLLUTION PREVENTION						
PROPER STORAGE	X	X	X	X		X
WASHWATER BMP	X	X	X	X		X
SPILL KIT ON-SITE	X	X	X	X		X
CONCRETE WASHOUT AREA	X	X	X	X		X

** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ'S GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP'S WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIAL *BRA*

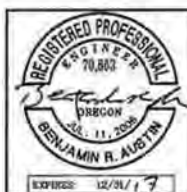
INSPECTION FREQUENCY:	
SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	DAILY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOWMELT, IS OCCURRING.
2. PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY.	ONCE TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN WORKING ORDER. ANY NECESSARY MAINTENANCE AND REPAIR MUST BE MADE PRIOR TO LEAVING THE SITE.
3. INACTIVE PERIODS GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS.	ONCE EVERY TWO (2) WEEKS.
4. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR DOWNSTREAM LOCATION.

- * HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
- * ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT REQUIREMENTS.
- * INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS.
- * RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

ESC - COVER SHEET
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

EC1

SHR-13



Harper Houf Peterson Righellis Inc.
ENGINEERS + PLANNERS
LANDSCAPE ARCHITECTS + SURVEYORS
205 SE SPOKANE STREET, SUITE 200, PORTLAND, OR 97202
PHONE: 503.221.1131 WWW.HHPR.COM FAX: 503.221.1171

GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. SEED USED FOR TEMPORARY OR PERMANENT SEEDING SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
 - A. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES. SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX.
 - B. DWARF GRASS MIX (MIN. 100 LB./AC.)
 1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
 2. CREEPING RED FESCUE (20% BY WEIGHT)
 - C. STANDARD HEIGHT GRASS MIX (MIN. 100LB./AC.)
 1. ANNUAL RYEGRASS (40% BY WEIGHT)
 2. TURF-TYPE FESCUE (60% BY WEIGHT)
2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. ACTIVE INLETS TO STORM WATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.
10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.
11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORM WATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING PITS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF THE CAPACITY.
12. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORM WATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
13. AVOID PAVING IN WET WEATHER WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORM WATER SYSTEM.
14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.
15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORM WATER SYSTEM.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

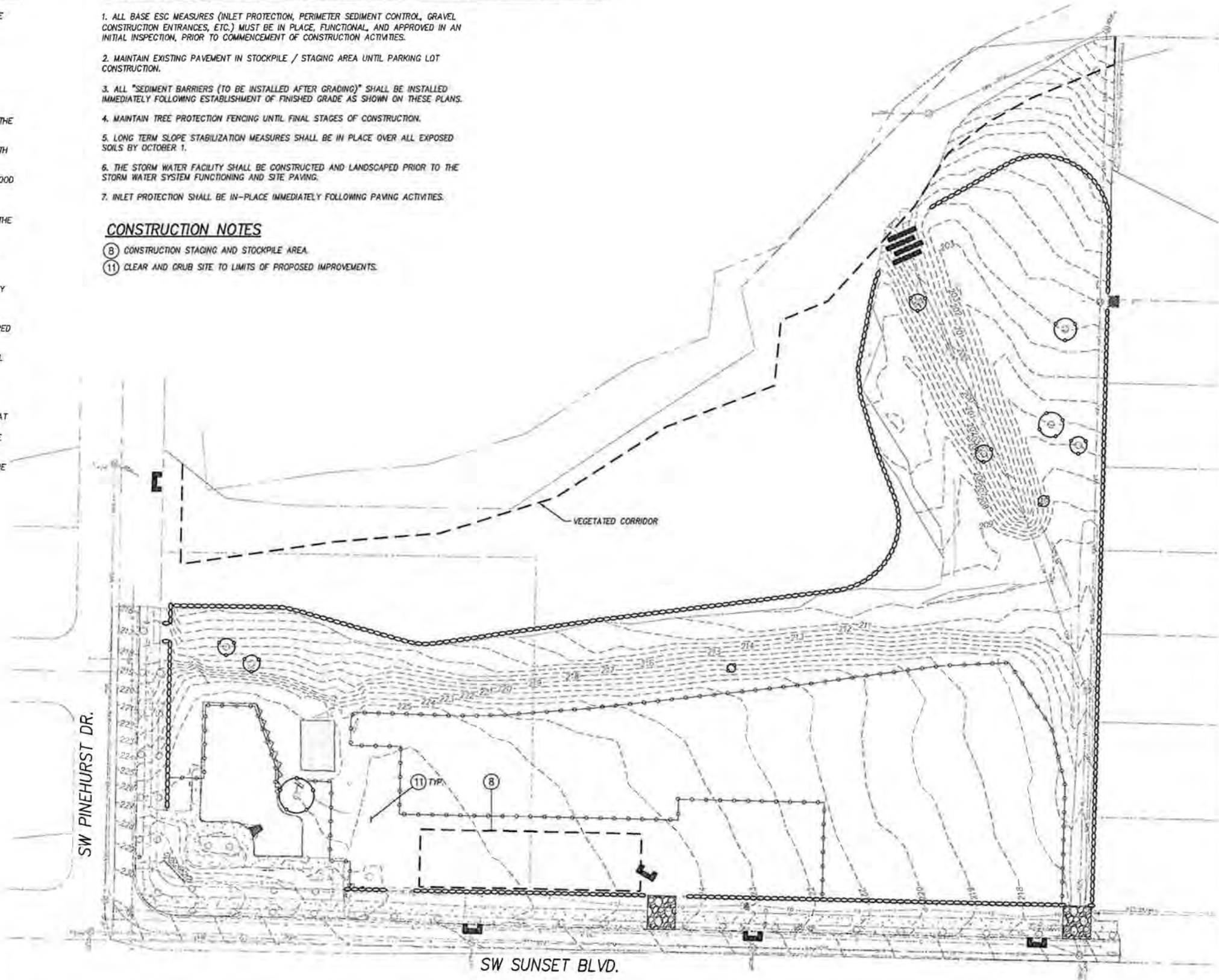
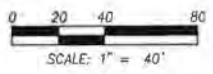
1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. MAINTAIN EXISTING PAVEMENT IN STOCKPILE / STAGING AREA UNTIL PARKING LOT CONSTRUCTION.
3. ALL "SEDIMENT BARRIERS (TO BE INSTALLED AFTER GRADING)" SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
4. MAINTAIN TREE PROTECTION FENCING UNTIL FINAL STAGES OF CONSTRUCTION.
5. LONG TERM SLOPE STABILIZATION MEASURES SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
6. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
7. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

CONSTRUCTION NOTES

- (8) CONSTRUCTION STAGING AND STOCKPILE AREA
- (11) CLEAR AND GRUB SITE TO LIMITS OF PROPOSED IMPROVEMENTS.

LEGEND

EXISTING GROUND CONTOUR MAJOR / MINOR	140
FINISHED GRADE CONTOUR MAJOR	150
FINISHED GRADE CONTOUR MINOR	151
TREE PROTECTION FENCE	
STOCKPILE AREA	
PLAYGROUND CURB DEMOLITION	
ORANGE SEDIMENT CONTROL FENCE	
VEGETATIVE CORRIDOR	
INLET PROTECTION	
FLOW ARROW	
TREE REMOVAL	
CONSTRUCTION ENTRANCE	
CLEARING AND GRUBBING AREA	



P:\SHR (City of Sherwood)\SHR-13\Woodhaven Park\SHR13-DWG\SS\SSHEETS\SHR13-1200-C.GRAVING AND UTILITIES.dwg

DATE	NO.	DESCRIPTION
R E V I S I O N S		

DESIGNED:	BRA
DRAWN:	HHPR
CHECKED:	BRA
DATE:	OCTOBER 30, 2015



HHPR Harper Houf Peterson Righellis Inc.
 ENGINEERS • PLANNERS
 LANDSCAPE ARCHITECTS • SURVEYORS
 205 SE Spokane Street, Suite 200, Portland, OR 97202
 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

**ESC - CLEARING AND DEMOLITION
 WOODHAVEN PARK PHASE 2
 SHERWOOD, OREGON**

SHEET NO. **EC2**
 JOB NO. SHR-13

CONSTRUCTION NOTES




- 1 INSTALL INLET PROTECTION PER DETAIL ON SHEET EC4.
- 2 INSTALL ORANGE SEDIMENT CONTROL FENCE PER DETAIL ON SHEET EC4.
- 3 INSTALL GRAVEL CONSTRUCTION ENTRANCE.
- 7 EXISTING STORM OUTFALL TO REMAIN.
- 8 CONSTRUCTION STAGING AND STOCKPILE AREA.
- 9 INSTALL TREE PROTECTION FENCE PER DETAIL ON SHEET EC4.
- 10 INSTALL STRAW WATTLES PER DETAIL ON SHEET EC4.

PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:











1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING OR CHAIN LINK FENCING IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

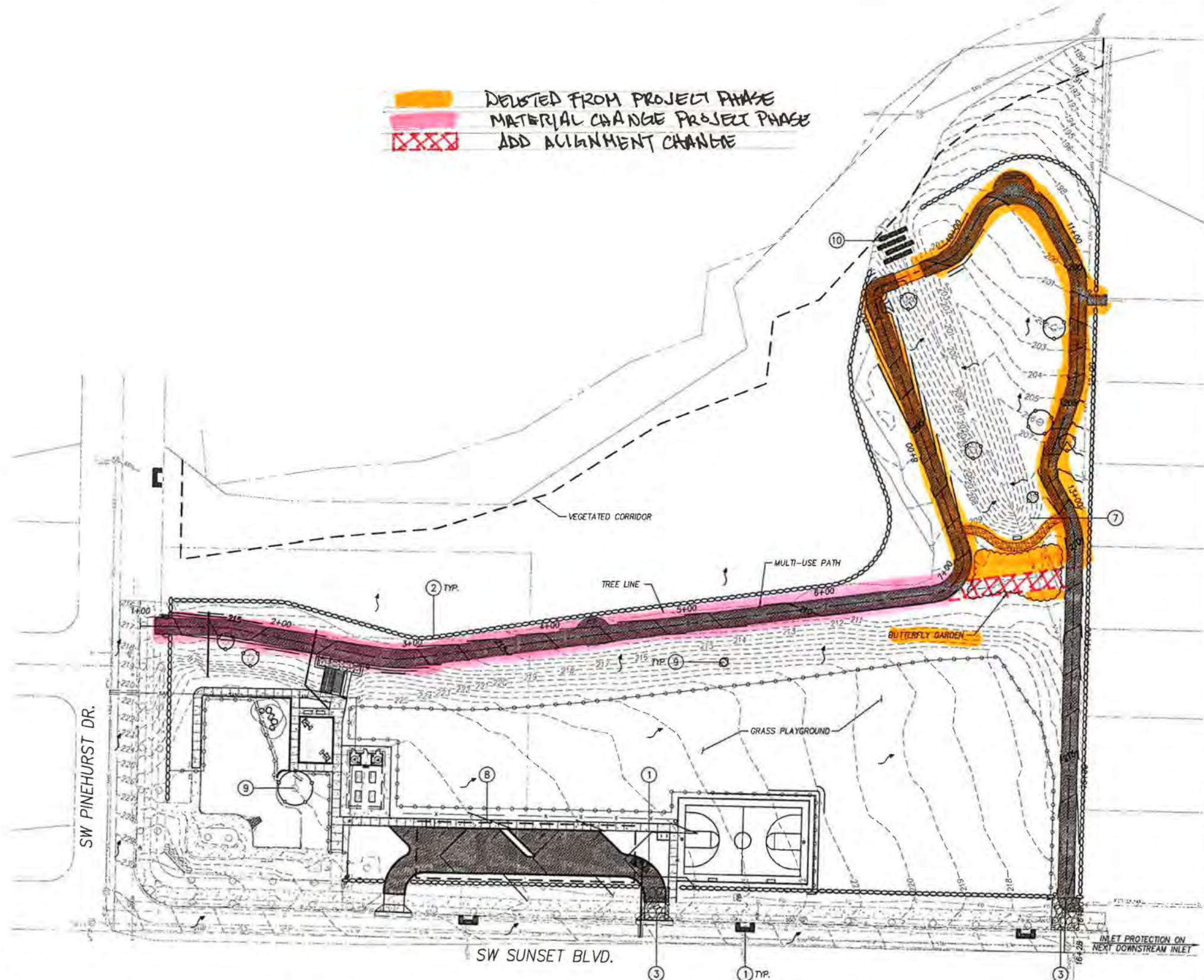
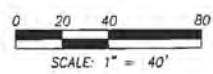
* NOTE: PRE-DEVELOPED RUN-OFF SHEET FLOWS EASTERLY INTO ON-SITE DRAINAGE AND NORTHERLY ONTO ADJACENT PROPERTIES.

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

 DELETED FROM PROJECT PHASE
 MATERIAL CHANGE PROJECT PHASE
 ADD ALIGNMENT CHANGE

LEGEND

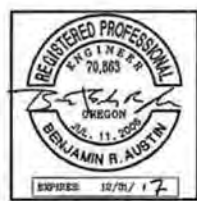
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- FINISHED GRADE CONTOUR MAJOR  150
- FINISHED GRADE CONTOUR MINOR  151
- TREE PROTECTION FENCE 
- STOCKPILE AREA 
- ORANGE SEDIMENT CONTROL FENCE 
- VEGETATIVE CORRIDOR 
- INLET PROTECTION 
- FLOW ARROW 
- CONSTRUCTION ENTRANCE 



P:\SHR\City of Sherwood\SHR-13 (Woodhaven Park)\SHR13-DWG\SS(SHEETS)\SHR13-1200-C. CLEARING AND DEMO.dwg

DATE	NO.	DESCRIPTION
R E V I S I O N S		

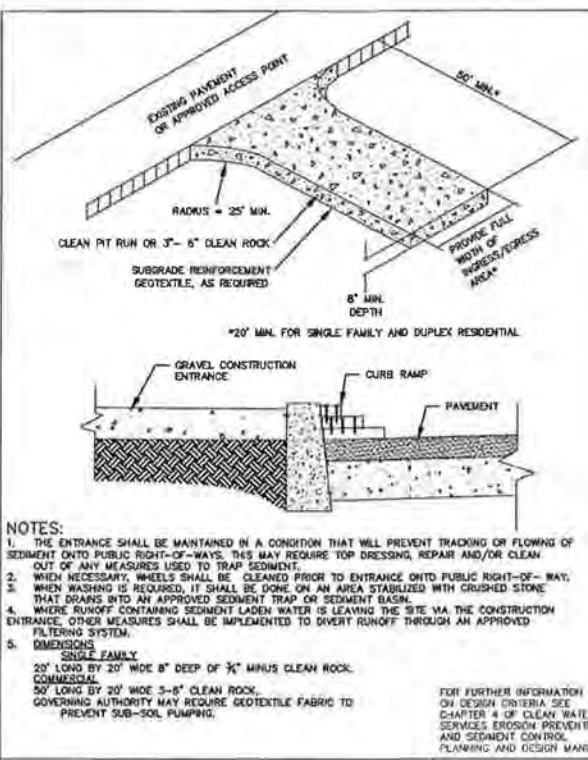
DESIGNED:	BRA
DRAWN:	HHPR
CHECKED:	BRA
DATE:	OCTOBER 30, 2015



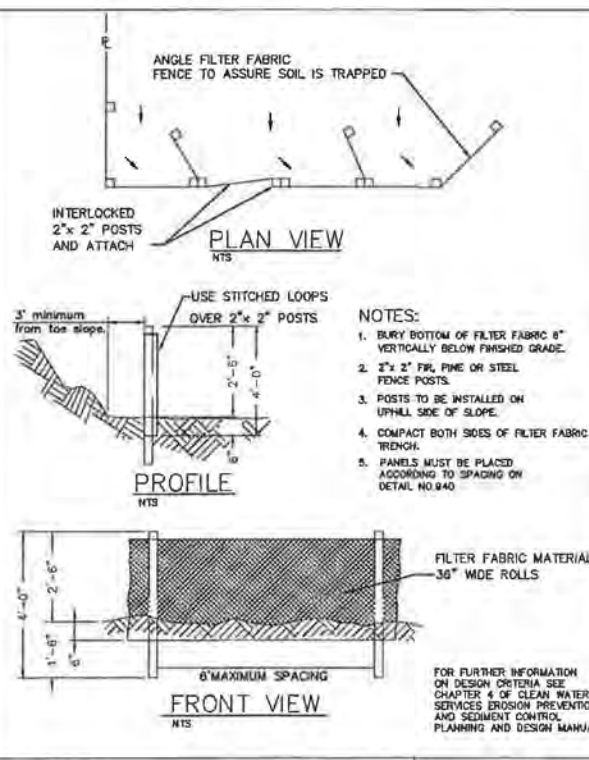

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 phone: 503.221.1131 www.hhpr.com fax: 503.221.1171

ESC - GRADING AND UTILITIES
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

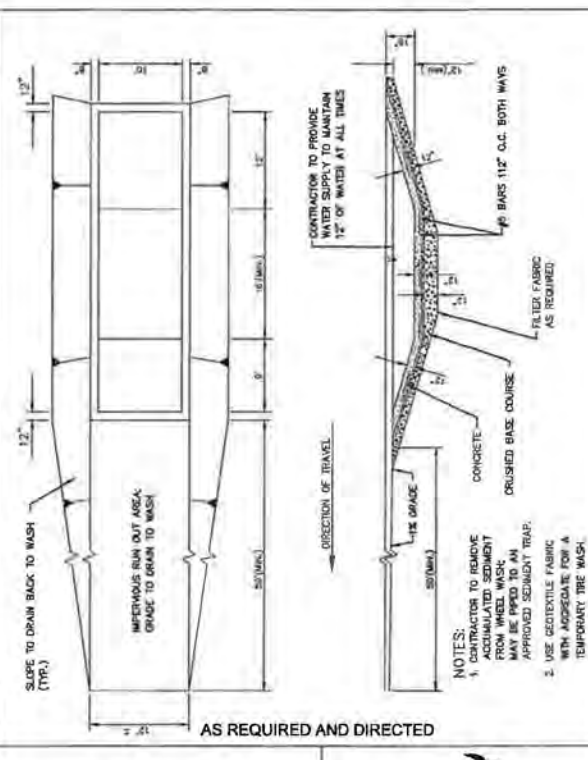
SHEET NO. **EC3**
 JOB NO. SHR-13



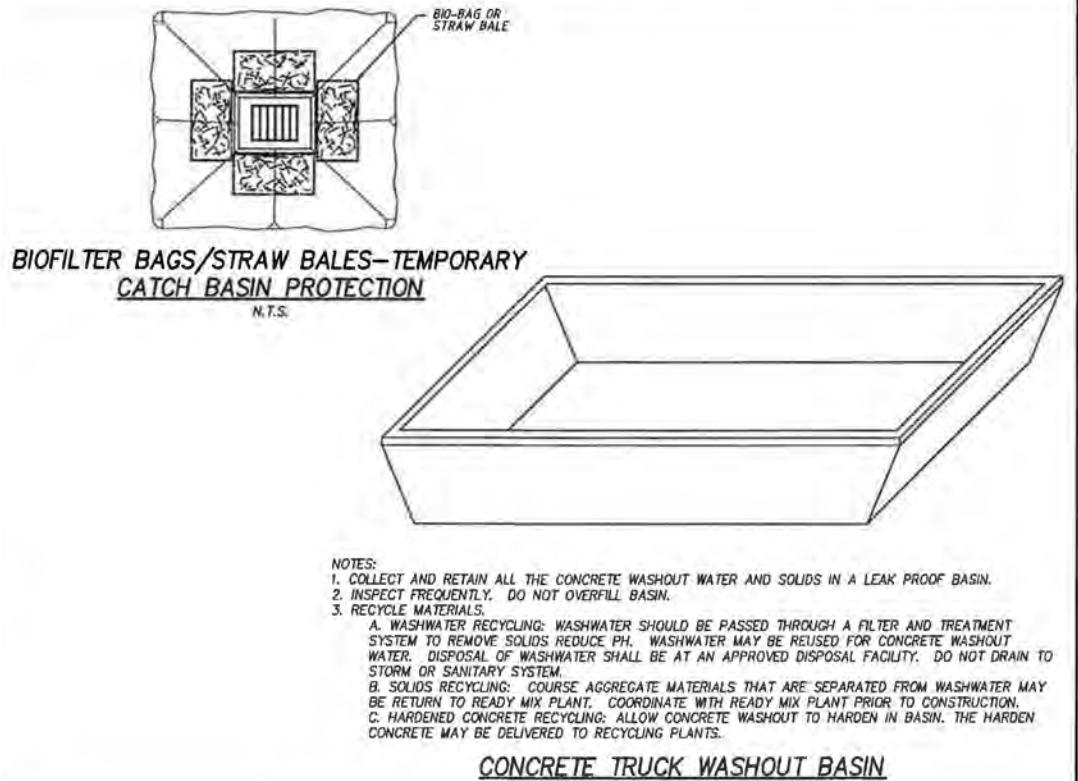
CONSTRUCTION ENTRANCE
Detail Drawing 855 REVISED 12-06



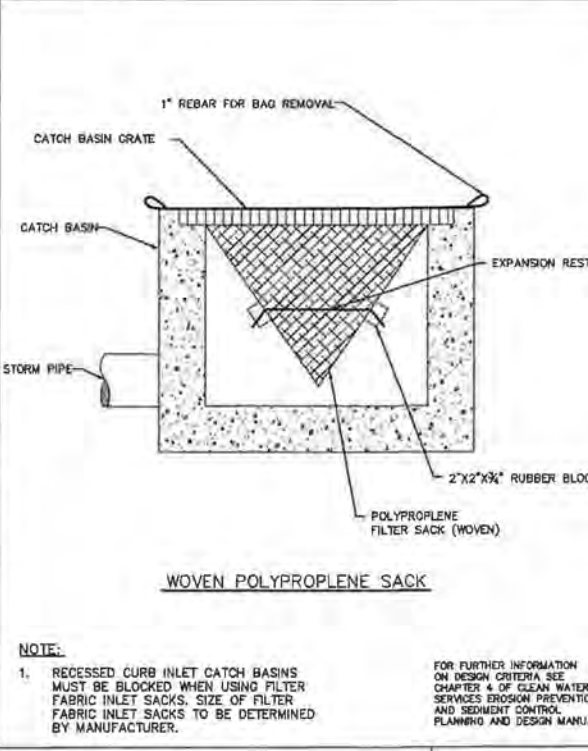
SEDIMENT FENCE
DRAWING NO. 875 REVISED 12-06



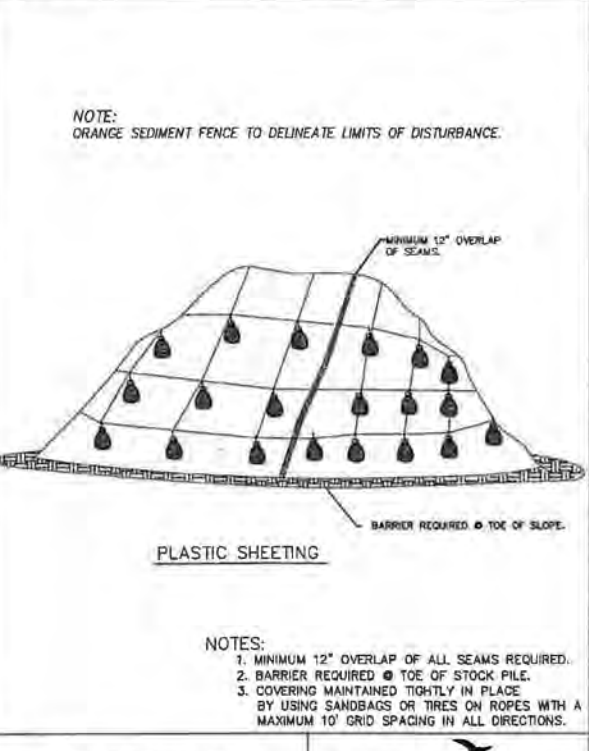
TIRE WASH
Detail Drawing 4-7



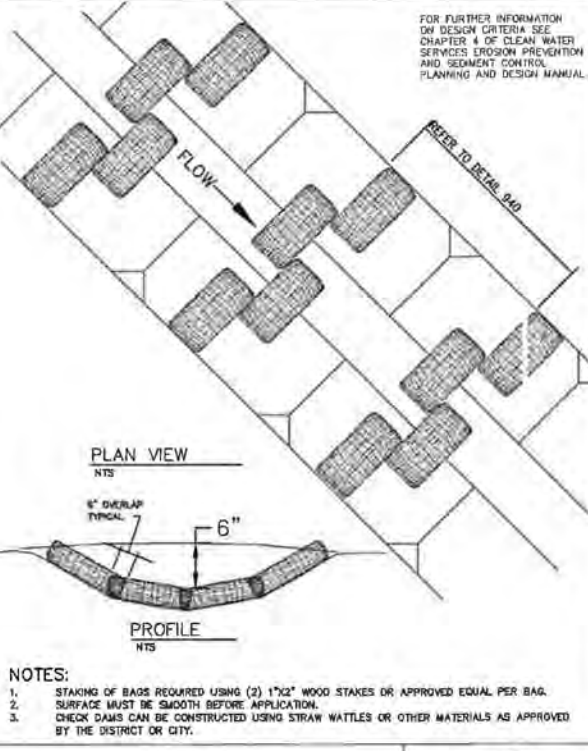
BIOFILTER BAGS/STRAW BALES-TEMPORARY CATCH BASIN PROTECTION
N.T.S.



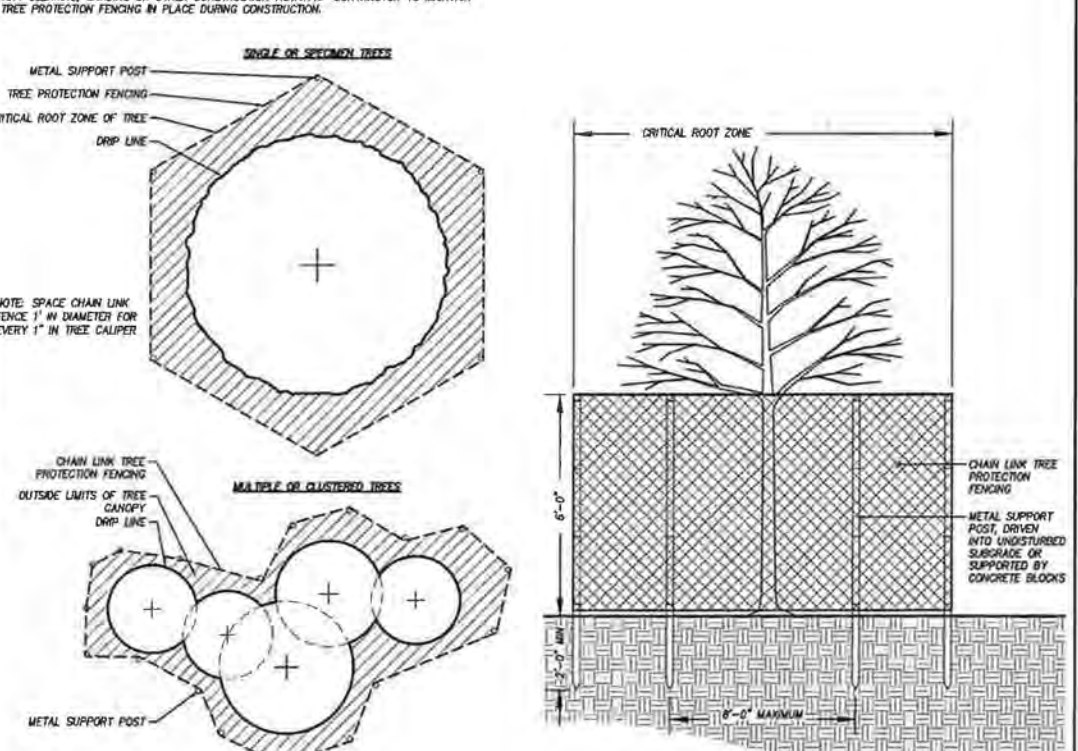
INLET PROTECTION TYPE 5
DRAWING NO. 920 REVISED 12-06



PLASTIC SHEETING
Detail Drawing 4-4



CHECK DAM BIO-FILTER BAG
DRAWING NO. B45 REVISED 12-06



TREE PROTECTION FENCING
Plan Section NOT TO SCALE

DATE	NO.	DESCRIPTION

DESIGNED: BRA
DRAWN: HHPR
CHECKED: BRA
DATE: OCTOBER 30, 2015

REGISTERED PROFESSIONAL ENGINEER
70,863
BENJAMIN R. AUSTIN
EXPIRES: 12/31/17

Harper Houf Peterson Righellis Inc.
ENGINEERS • PLANNERS
LANDSCAPE ARCHITECTS • SURVEYORS
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ESC - DETAILS
WOODHAVEN PARK PHASE 2
SHERWOOD, OREGON

SHEET NO. **EC4**
JOB NO. SHR-13

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ROMTEC SCOPE OF SUPPLY AND SERVICES**PART 1: GENERAL****1.1 DESCRIPTION**

Project Name: Woodhaven Park
Location: Sherwood, OR
Date: 5/11/2016

REVISED 7/5/2016

1.2 SCOPE

- A. Romtec is a single source design, engineering, and manufacturer who shall supply the sealed plan set as well as the structural and mechanical building components as a complete, pre-designed packaged restroom building as shown on drawings and as specified herein.
- B. The contractor is responsible for building installation, hereafter designated as the *installer*. *Installer* work will include site preparation and grading, excavations for structures, backfill and/or structural backfill, foundation and pad construction, and building installation.
- C. Romtec packaged restroom buildings are the latest standard product of a supplier regularly engaged and having at least twenty (20) years of experience in packaged restroom building engineering, design, supply, and construction.
- D. Romtec buildings are designed to meet local codes for permanent structures. Buildings that are temporary, relocatable, prefabricated, or pre-cast are not an equal to permanent, on site, conventional construction.
- E. The Romtec building package has been quoted with the specific product colors noted below. Changes to these color selections may result in a price increase.
- F. The building and its concrete footings, foundation, and slab are engineered by Romtec to meet site specific conditions including wind and snow loading, local frost depth, and ground conditions. Prefabricated modular mats placed on compacted base are not equal to Romtec's site specific, site poured, engineered foundation.

ROMTEC SCOPE OF SUPPLY AND SERVICES

- G. Typical fasteners such as nails, staples, and screws shall be supplied by *installer*. Atypical fasteners shall be supplied by Romtec. Contact Romtec for fasteners clarification if necessary.
- H. Local building departments reserve the right to modify national building codes to meet the needs of their area. There is no way for Romtec to always know what the requirements of the reviewing authority will be. Romtec has made every effort to meet local codes. Any revision after submittal approval and notice to proceed will result in a change order.
- I. Three (3) wet stamped sets of plans and structural calculations shall be issued. Any additional plan sets and/or structural calculations can be obtained for a fee.
- J. The specific supplier is indicated for each item. Romtec, *installer*, and *owner* supplied components are listed as such.

1.3 SUBMITTAL DOCUMENTATION

- A. Romtec will submit the Scope of supply and design submittal (SSDS), including the construction drawings and all component data sheets. One full round of SSDS revisions are provided by Romtec in the design and engineering services.
- B. Romtec does not provide LEED/Green submittals as a standard service. Romtec can assist in providing documentation for products that may meet LEED/Green standards, but Romtec does not provide or fill out LEED credit forms. Unless specifically included in Romtec's proposal and quote, Romtec does not supply materials with the intent of meeting LEED standards. Any changes due to LEED or Green building requirements will result in a change order and increased lead times."

1.4 WARRANTY

- A. The building and all its associated components shall be warranted against defects in materials and workmanship for a period of not less than one (1) year from date of final acceptance. The following are exceptions to the warranty if these products are applicable to the building package:

ROMTEC SCOPE OF SUPPLY AND SERVICES

1. Romtec does not provide a warranty for metal roofing. Metal roofing manufacturers intend for their roofing to be installed immediately upon delivery from the factory. All project circumstances are different and Romtec cannot guarantee that metal roofing is installed within the timeframe allowed from the manufacturer. Therefore, Romtec does not warrant metal roofing.
2. Stone veneer will crack over time due to multiple factors including building settlement, water infiltration and freezing, wall movement, and other factors. Romtec cannot guarantee that the stone veneer on the building will not eventually crack. Romtec considers the repairing of cracks as a maintenance issue, and not a warranty issue. In other words, the stone veneer on the building will eventually crack and it will not be covered under the building warranty.

PART 2: PRODUCTS

2.1 FOUNDATION AND WALLS

- A. All materials, equipment and labor for foundations/footings, interior slabs, exterior/entry slabs, and sidewalks shall be supplied by *installer*.
 1. Concrete slab finish is sealed with a light broom finish.

Note: Romtec has not been provided or made aware of any geotechnical reports for this project. Romtec is not responsible for any additional costs incurred by the installer if the foundation is increased due to local soil conditions.
- B. CMU blocks shall be supplied by Romtec.
 1. Exterior walls shall be constructed of mortar joint split-face concrete masonry units (CMU).

Note: Installer may be required to notch CMU block for bond beams and cut full blocks to create half blocks. Romtec is not responsible for any cost or construction delays associated with this work.
 2. Block color shall be Dark Oak (tan).
 3. Interior wall finish shall be latex epoxy paint supplied by *installer*.
 4. Masonry grout, mortar and rebar shall be supplied by *installer*.

ROMTEC SCOPE OF SUPPLY AND SERVICES

- C. Doors, frames and hardware shall be supplied by Romtec.
 - 1. Doors and frames will be supplied primed to be painted on-site by *installer*.
- D. Wire weave gable vents shall be supplied by Romtec.
 - 1. Frames shall be powder coated black.
- E. Shelving in mechanical room shall be supplied by *installer*.

2.2 ROOFING

- A. Roofing materials shall be supplied by Romtec except where noted.
 - 1. Glulam beams
 - 2. 2x6 tongue and groove decking
 - 3. Roofing shall be 29-gauge metal, TFR-36 panels. (*customer to select roofing color from the manufacturer's standard color chart*)
- B. Roof extension materials shall be supplied by Romtec except where noted.
 - 1. Timber trusses and columns
 - 2. Truss plates to be powder coated black.
- C. Sealant for all exposed wood shall be supplied by *installer*.

2.4 PLUMBING AND FIXTURES

- A. Plumbing rough-in, installation and trim shall be supplied by *installer*.
- B. Floor drain(s) shall be supplied by *installer*.
- C. Backflow check valves shall be supplied by *installer*.
- D. Drain valves shall be supplied by *installer*.
- E. Restroom fixtures shall be supplied by Romtec except where noted.
 - 1. China floor mount toilets and lever flush valves.
 - 2. China wall mount sinks and lever handle faucets.
 - 3. Grab bars, waste receptacle (no lid), mirrors, toilet paper dispensers, soap dispensers and diaper decks.
- F. Drinking fountain shall be supplied by Romtec.

ROMTEC SCOPE OF SUPPLY AND SERVICES**2.5 ELECTRICAL**

- A. Electrical rough-in, installation and trim shall be supplied by *installer*.
- B. Interior and exterior building light fixtures shall be supplied by Romtec.
- C. Hand dryers shall be supplied by Romtec.
- D. Security cameras shall be supplied by *installer*.
- E. Digital sign shall be supplied by *others*.
- F. 20 amp wall outlet and exterior locking GFCI outlet shall be supplied by *installer*.
- G. Main breaker panel sized for the building components shall be supplied by Romtec.
 - 1. Panel shall be 100 amp, single phase, rain tight

2.6 OTHER MATERIALS & EQUIPMENT

- A. Unless otherwise specified, the following products and materials are NOT supplied by Romtec.
 - 1. All items not listed in Romtec Products.
 - 2. Any item listed as supplied by "installer", "contractor", "owner", or "others".
- B. Unless specified in the plans or submittals, Romtec does not supply the following:
 - 1. Building installation
 - 2. Permits
 - 3. Asphalt paving
 - 4. Masonry pavers
 - 5. Sidewalks
 - 6. Landscaping
 - 7. Site grading
 - 8. Cast-in-place concrete foundations, footings, interior slabs and exterior/entry slabs
 - 9. Concrete slab sealer
 - 10. Mortar
 - 11. Concrete grout
 - 12. Rebar
 - 13. Latex epoxy paint
 - 14. Caulk for siding
 - 15. Plumbing rough in, installation and trim
 - 16. Electrical rough in, installation and trim
 - 17. Drain valves and backflow check valves
 - 18. Branch circuit breakers
 - 19. Switches & outlets
 - 20. Fluorescent tubes for light fixtures
 - 21. Wall hangers for toilets

ROMTEC SCOPE OF SUPPLY AND SERVICES

22. Typical fasteners; for example roofing nails, staples, etc.
23. Fasteners not included in product packaging
24. Irrigation Equipment
25. Gutters and downspouts
26. Fire alarm and fire suppression equipment
27. Lighting equipment not attached to the building
28. Clear coat finish for all decking, glulam beams, posts, and extensions
29. All other items indicated on final plans or required by building codes which are not specifically stated as supplied by Romtec.

PART 3: EXECUTION

3.1 SPECIAL INSPECTION

- A. If required, special inspection shall be *owner supplied*.
- B. Site visits by Romtec and/or Romtec's design professionals are not included in the proposal. If required, Romtec will issue a change order.

3.2 DELIVERY, STORAGE, AND HANDLING

Note: Romtec's freight estimates are based on delivering the product on a 48' to 53' flatbed or van truck and trailers, or as close as we can legally get to the site. Overall dimensions of the truck and trailers are the following: 70' overall length, 102" wide and 168" high

- A. *Owner* or *installer* will assume responsibility for adequate protection of materials from weather, damage, and pilferage or all warranties, expressed or implied may be voided.



3.3 OPERATION & MAINTENANCE MANUALS

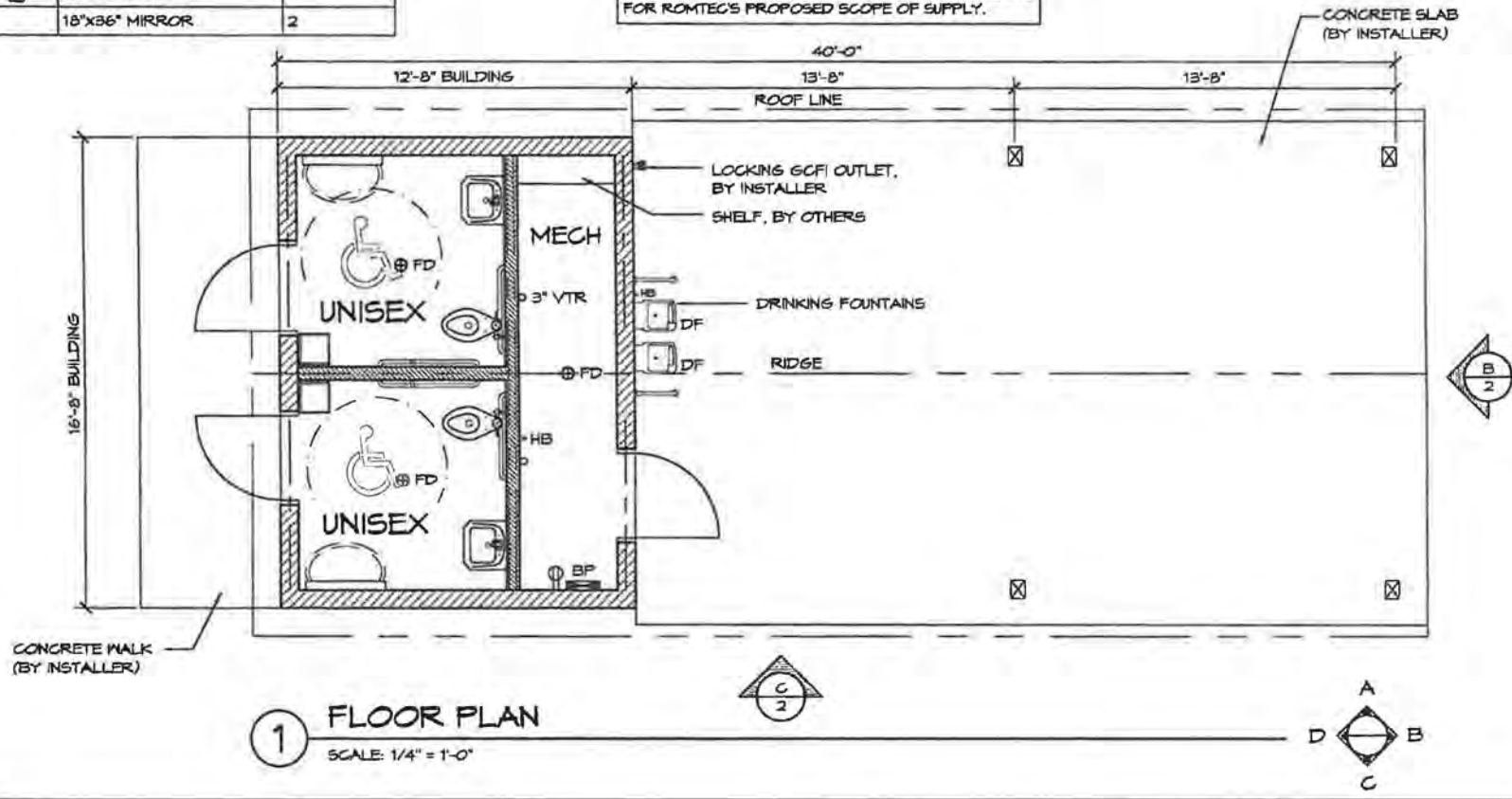
- A. Do not throw away the Operations & Maintenance manuals that are provided by some manufacturers in their packaging. It is the responsibility of the *installer* and/or *owner* to collect and maintain these manuals.


LEGEND			LEGEND		
SYMBOL	DESCRIPTION	AREA/ QUANTITY	SYMBOL	DESCRIPTION	AREA/ QUANTITY
----	GABLE VENT	4	□ TP	TWO ROLL TP DISPENSER	2
==	2x6 WOOD FILLER WALL	2	▽ SD	SOAP DISPENSER	2
	EXTERIOR WALL LIGHTS	3	□ HD	WALL MOUNT HAND DRYER	2
	INTERIOR WALL LIGHTS	2		DIAPER DECK	2
	INTERIOR CEILING LIGHTS	2			
	PAVILION OVERHEAD LIGHTS	4			
○	FLOOR DRAIN	3			
▽ HD	WALL HYDRANT	1			
⚡	20A ELECTRICAL OUTLET	1			
⚡	LOCKING GCFI OUTLET	1			
□	TRASH CAN	2			
	18"x36" MIRROR	2			

THESE PLAN VIEW AND ELEVATION DRAWINGS ARE A PRELIMINARY ARCHITECTURAL REPRESENTATION OF THE BUILDING. ALL DIMENSIONS, FEATURES AND COMPONENTS SHOWN ON THESE PRELIMINARY DRAWINGS MAY OR MAY NOT BE PART OF THE QUOTE. PLEASE REFER TO THE 'SCOPE OF SUPPLY AND SERVICES' LETTER PROVIDED WITH YOUR QUOTE FOR ROMTEC'S PROPOSED SCOPE OF SUPPLY.

WALL TYPE SCHEDULE

-  8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.
-  6" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.





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PH: 503-636-2641 FAX: 503-636-0803

PRELIMINARY

PROJECT: 2022 - WITH 27'-4" ROOF EXTENSION
PAUL BROTHERS, INC.
 WOODHAVEN PARK
 SHERWOOD, OREGON

PRELIMINARY

PROJECT: 561
 MODEL: 2024 M
 DATE: 6/29/2016
 REVISIONS

PRELIMINARY

REVISIONS

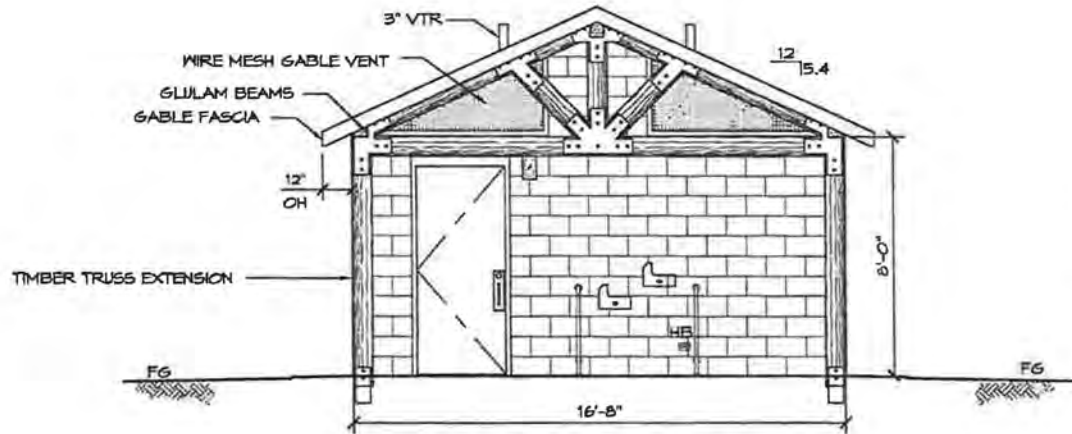
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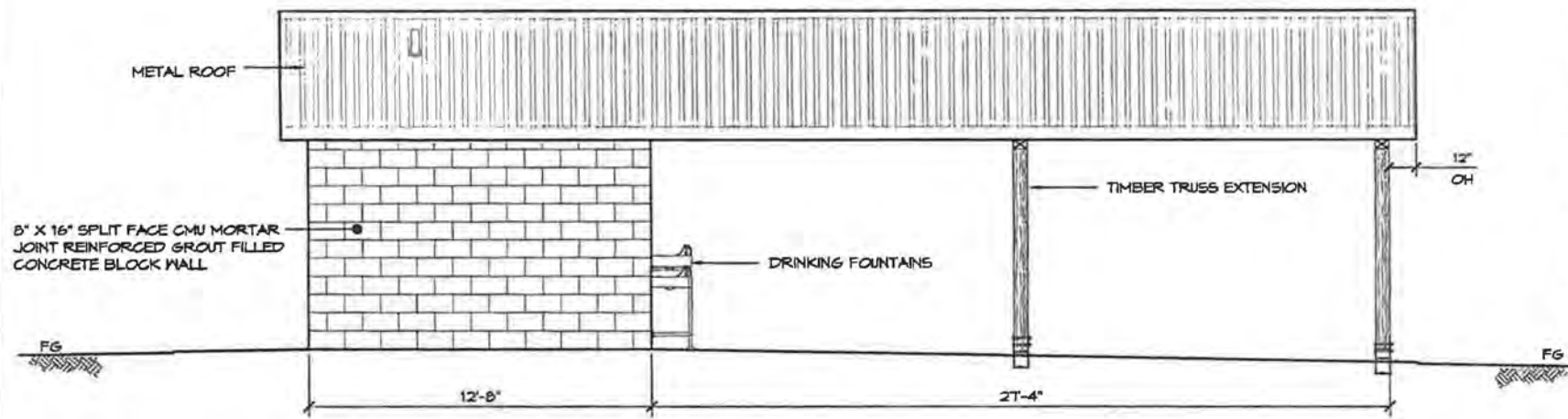
PRELIMINARY

SHEET NO. 1




B ELEVATION VIEW
SCALE: 1/4" = 1'-0"

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C ELEVATION VIEW
SCALE: 1/4" = 1'-0"



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PRELIMINARY

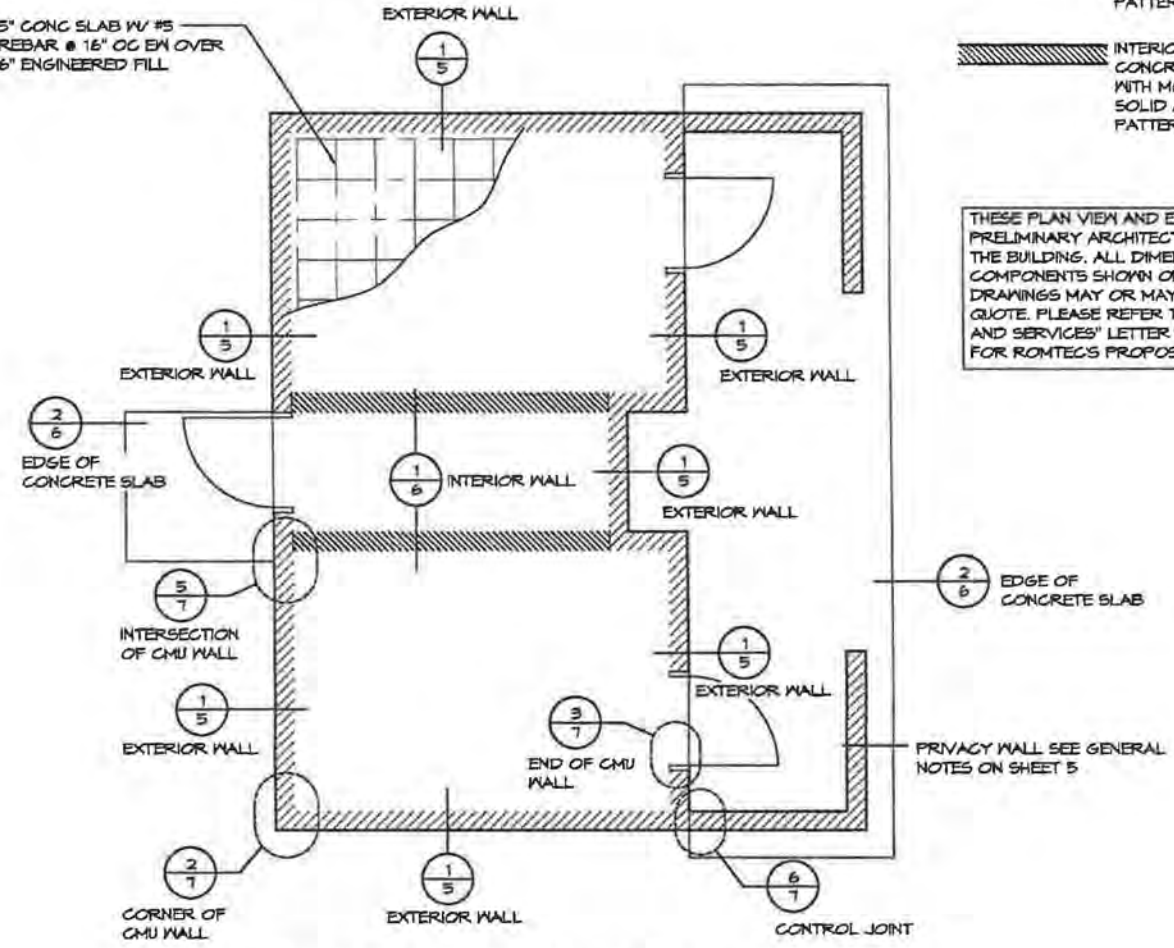
PROJECT: 2022 - WITH 27'-4" ROOF EXTENSION
 SUBJECT: PAUL BROTHERS, INC.
 WOODHAVEN PARK
 SHERWOOD, OREGON
 SHEET TITLE: ELEVATIONS

NO.	DATE	BY

MODEL: 561
 DATE: 6/29/2016
 REVISIONS

TH
2

5" CONC SLAB W/ #5 REBAR @ 16" OC EM OVER 6" ENGINEERED FILL



1 EXAMPLE FOUNDATION
SCALE: 1/4" = 1'-0"

WALL TYPE SCHEDULE

- EXTERIOR WALL - 8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.
- INTERIOR WALL - 8" REINFORCED CONCRETE MASONRY BLOCK WALL WITH MORTAR JOINTS, GROUTED SOLID ALL CELLS RUNNING BOND PATTERN.

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PROJECT: SIERRA
CUSTOMER: SIERRA
PROJECT LOCATION: TH

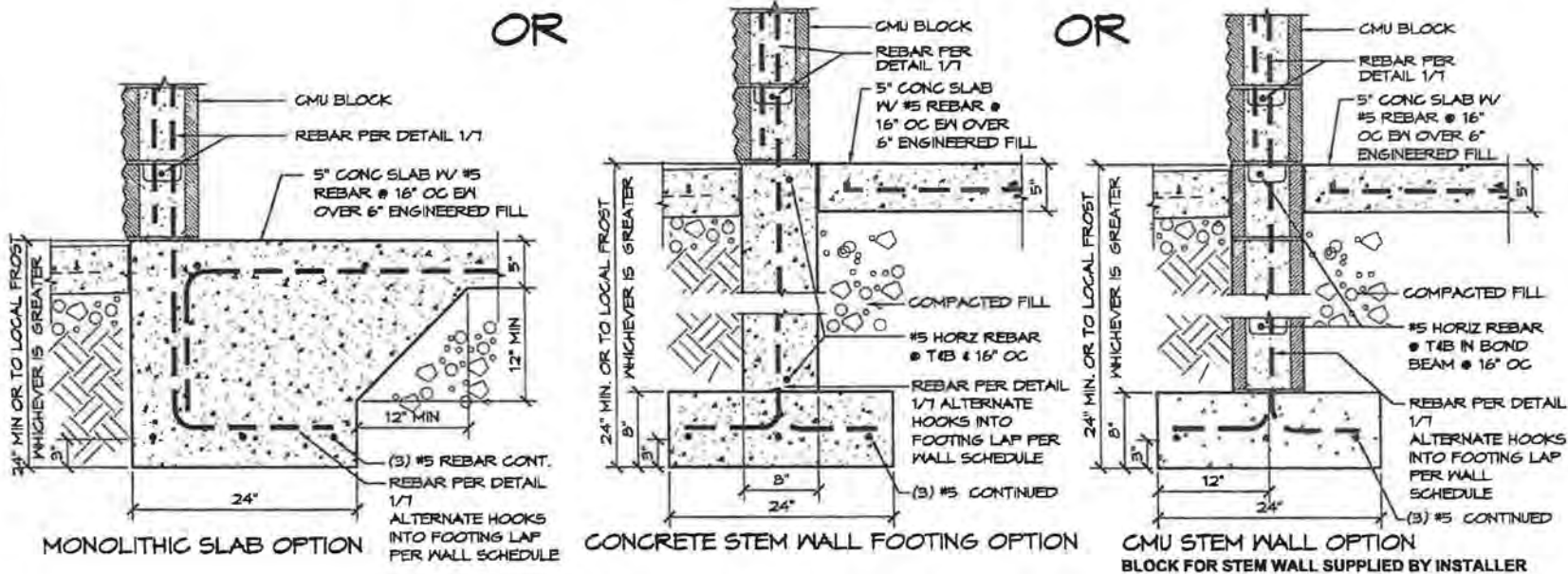
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REVISIONS:

DESIGNED BY: TH
CHECKED BY:

SHEET NO. **4**

EXTERIOR WALL FOUNDATIONS - CHOOSE ONE OF THE FOLLOWING

SEE FLOOR PLAN FOR EXTERIOR WALL LOCATIONS, SHEET 4



EXTERIOR WALL FOUNDATION DETAIL OPTIONS

SCALE: 1" = 1'-0"

1

GENERAL NOTES:

- WHEN USING EITHER STEM WALL OPTION RECESS STEM WALL THE THICKNESS OF SLAB AT DOOR THRESHOLD
- PRIVACY WALLS SHALL HAVE A 30" WIDE x 12" DEEP FOOTING
- CMU STEM WALL OPTION, CMU BLOCK IS BY INSTALLER
- VERTICAL REBAR IN SLAB/STEM WALL TO MATCH VERTICAL WALL REINFORCEMENT LAP PER WALL SCHEDULE

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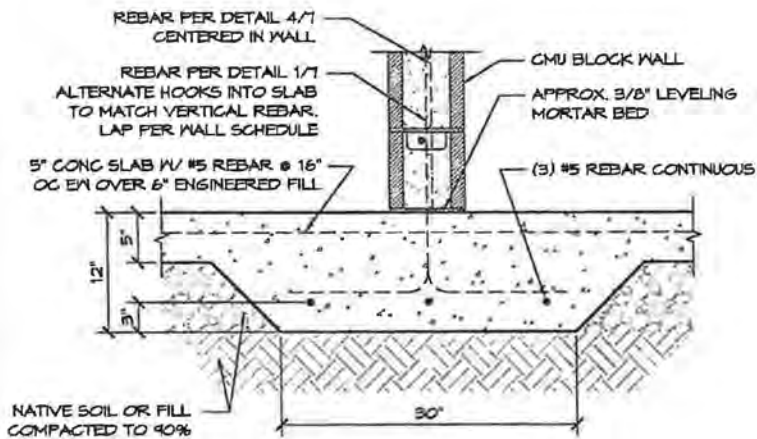
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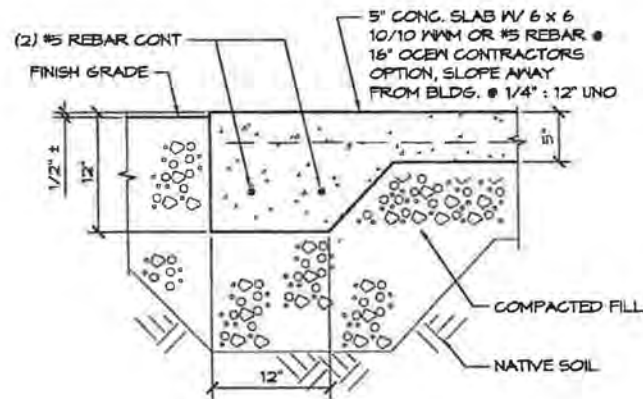
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MODEL:	SIERRA
DATE:	00/00/16
REVISIONS:	
NO.	DATE
DESIGNED BY:	
CHECKED BY:	
PROJECT NO.:	TH
SHEET NO.:	5

CUSTOMER PROJECT LOCATION
SHEET TITLE: FOUNDATION OPTIONS



1 THICKENED SLAB AT INTERIOR WALLS
SCALE: 1" = 1'-0"

SEE FLOOR PLAN FOR INTERIOR WALL LOCATIONS, SHEET 4



2 EDGE OF CONG SLAB
SCALE: 1" = 1'-0"

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PROJECT: SIERRA
CUSTOMER
PROJECT
LOCATION

PROJECT: SIERRA
SACCHUP
SIERRA
DATE: 00/00/16
REVISIONS
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