

Proposed Fulton Pump Station Replacement Land Use Review

Zoning Map and Vicinity Map



Figure 1.0

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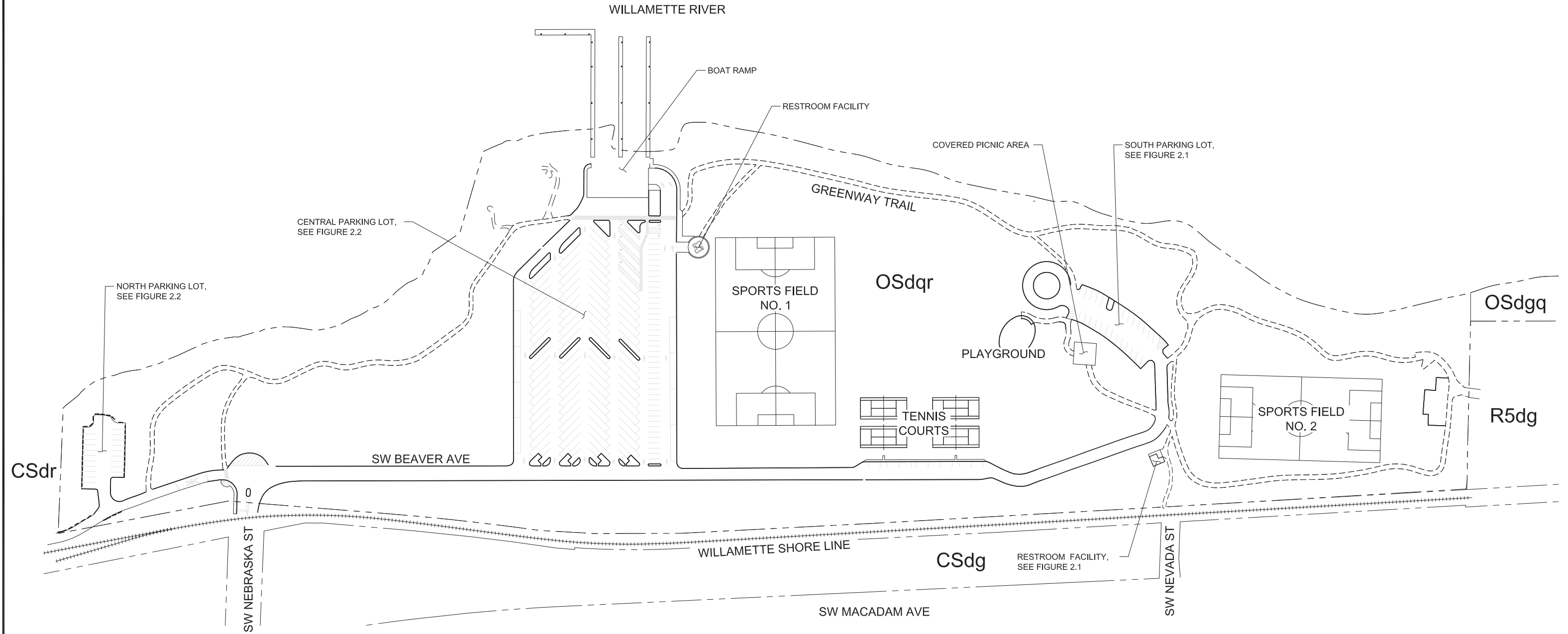


Figure 2.0

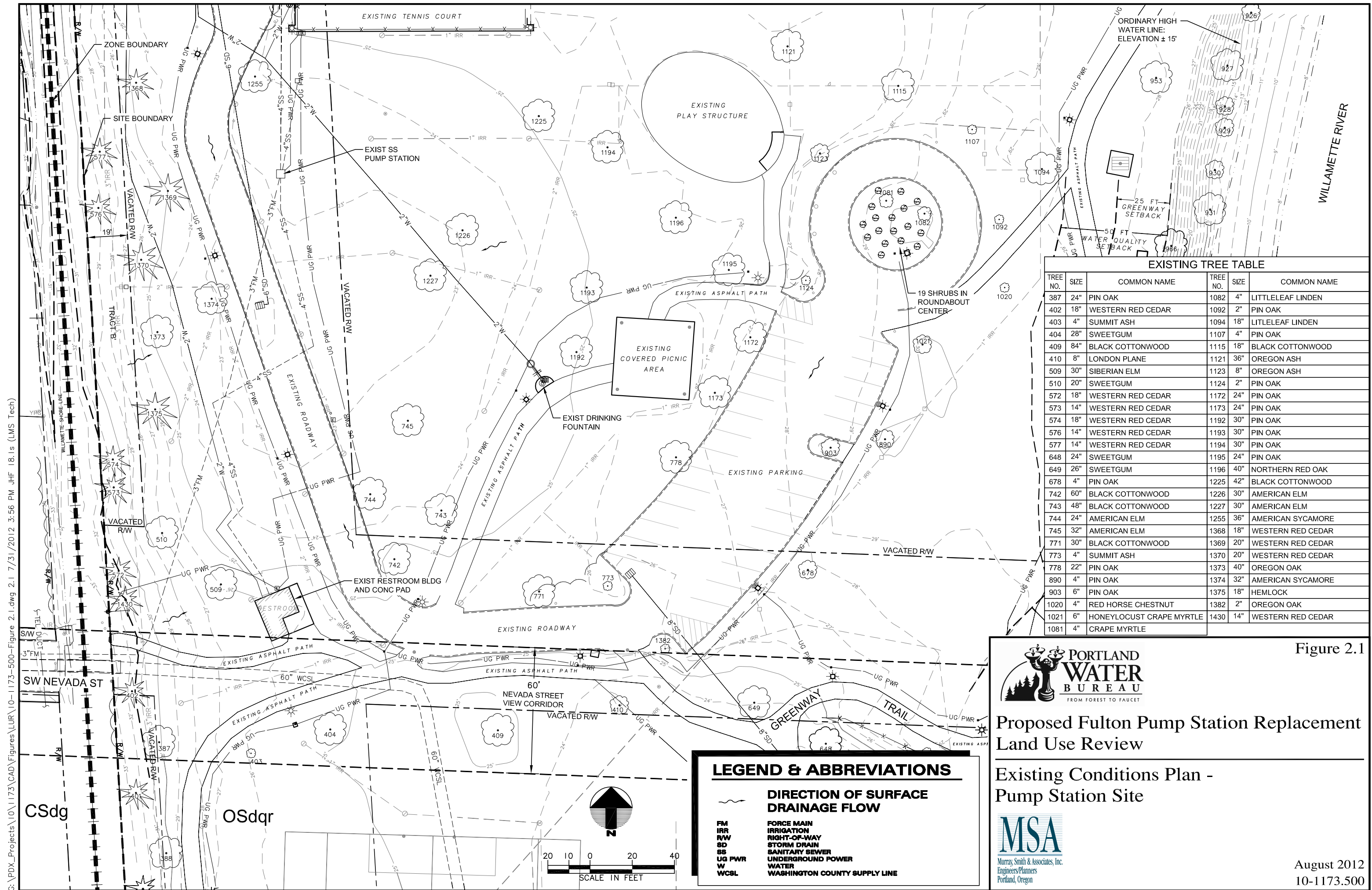


Proposed Fulton Pump Station Replacement Land Use Review

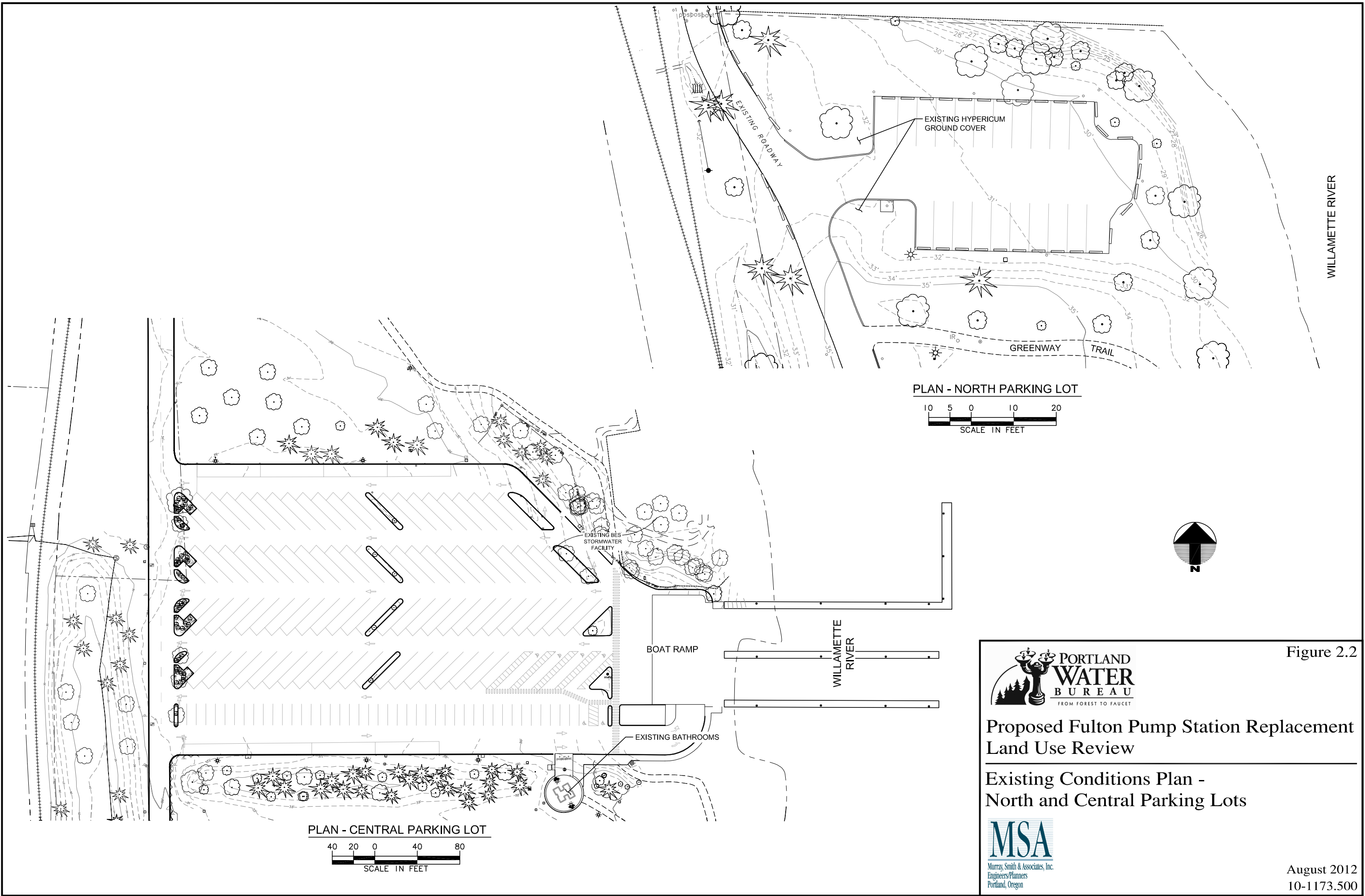
Existing Conditions Plan - Overall Site



May 2012
10-1173.500



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Proposed Fulton Pump Station Replacement Land Use Review

Existing Conditions Plan - North and Central Parking Lots



Figure 2.2

G:\PDX_Projects\10\1173\CAD\Figures\LUR\10-1173-500-Figure 3.0 & 3.3-3.5.dwg 3.0 8/3/2012 1:43 PM JHF 18.1s (LMS Tech)



PARK TREES PLANT LIST

PLANT TYPE	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	QUANTITY
TREES	RED CEDAR	THUJA PLICATA	8'-10' B&B	30' O.C.	2
	MARSHALL ASH	FRAXINUS PENNSYLVANICA "MARSHALL"	3" CAL	30' O.C.	7
	OREGON OAK	QUERCUS GARRYANA	2" CAL	30' O.C.	4

NOTE:

SEE FIGURES 3.3 - 3.6 & 3.11 FOR ADDITIONAL PLANTINGS. TREE PLANTING TO BE WITHIN 10' OF ROADWAY AS MEASURED FROM BACK OF CURB.

Figure 3.0




Proposed Fulton Pump Station Replacement
Land Use Review

Proposed Improvements Plan -
Overall Site




Figure 3.1

PORTLAND
WATER
BUREAU
FROM FOREST TO FAUCET

Proposed Fulton Pump Station Replacement
Land Use Review

Proposed Improvements Plan -
Pump Station Site

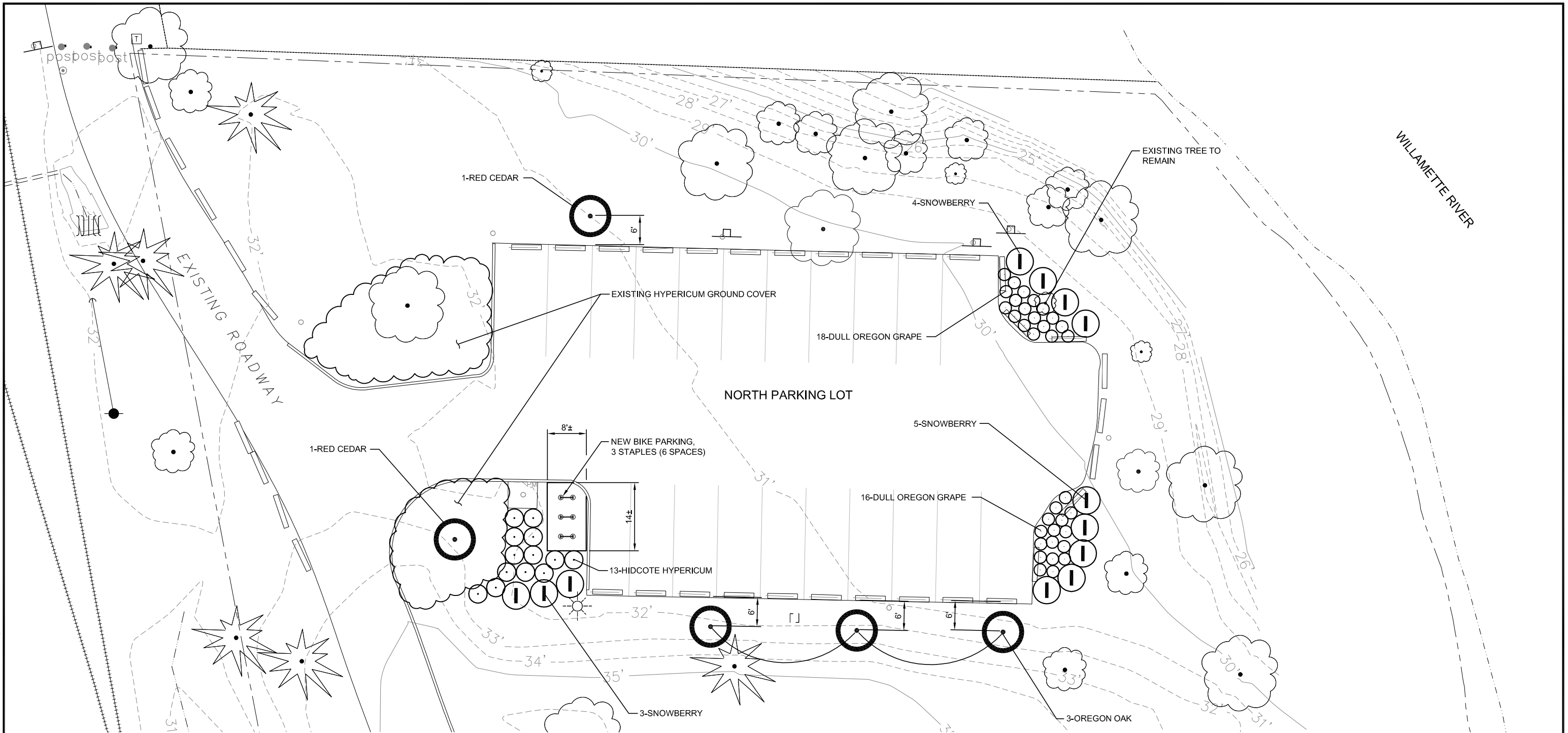
MSA

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Engineers/Planners
Portland, Oregon

August 2012
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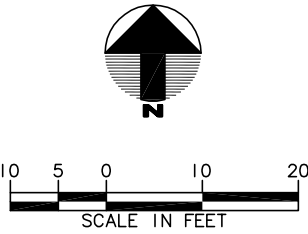


G:\PDX_Projects\10\1173\CAD\Figures\LUR\10-1173-500-Figure 3.0 & 3.3-3.5.dwg 3.3 8/3/2012 8:58 AM JHF 18.1s (LMS Tech)



NORTH PARKING LOT PLANT LIST

PLANT TYPE	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	QUANTITY
TREES	OREGON OAK	QUERCUS GARRYANA	3" CAL	AS SHOWN	3
	RED CEDAR	THUJA PLICATA	8'-10' B&B	AS SHOWN	2
SHRUBS	DULL OREGON GRAPE	BERBERIS NERVOSA	1 GAL	2' O.C.	34
	SNOWBERRY	SYMPHORICARPOS ALBA	5 GAL	5' O.C.	12
GROUND COVER	HIDCOTE HYPERICUM	HYPERICUM "HIDCOTE"	1 GAL	3' O.C.	13



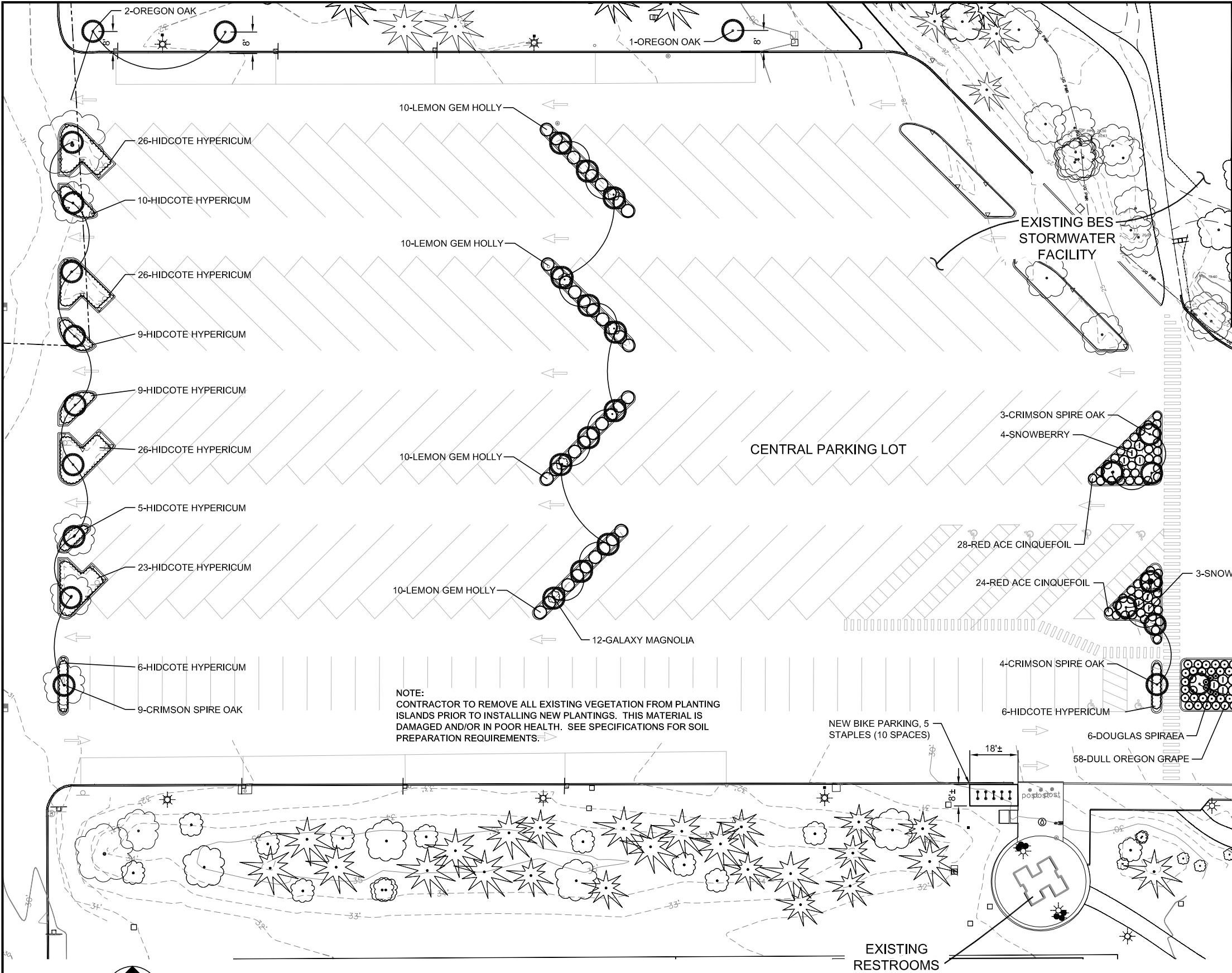
Proposed Fulton Pump Station Replacement
Land Use Review

Proposed Improvements Plan -
North Parking Lot



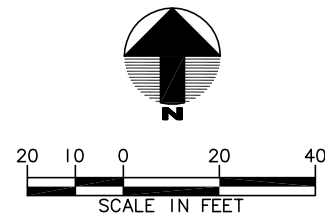
Figure 3.3

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CENTRAL PARKING LOT PLANT LIST

PLANT TYPE	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	QUANTITY
TREES	RED CEDAR	THUJA PLICATA	8'-10' B&B	AS SHOWN	2
	GALAXY MAGNOLIA	MAGNOLIA "GALAXY"	3" CAL	14' O.C.	12
	CRIMSON SPIRE OAK	QUERCUS ALBA X Q. ROBUR "CRIMSCHMIDT"	3" CAL	AS SHOWN	16
	OREGON OAK	QUERCUS GARRYANA	3" CAL	AS SHOWN	4
SHRUBS	DULL OREGON GRAPE	BERBERIS NERVOSA	1 GAL	2' O.C.	58
	SNOWBERRY	SYMPHORICARPOS ALBA	5 GAL	5' O.C.	17
	LEMON JAPANESE HOLLY	ILEX CRENATA "LEMON GEM"	5 GAL	4' O.C.	40
	RED ACE CINQUEFOIL	POTENTILLA FRUITICOSA "RED ACE"	2 GAL	3' O.C.	52
	DOUGLAS SPIRAEA	SPIRAEA DOUGLASI	2 GAL	3' O.C.	12
GROUND COVER	HIDCOTE HYPERICUM	HYPERICUM "HIDCOTE"	1 GAL	3' O.C.	146



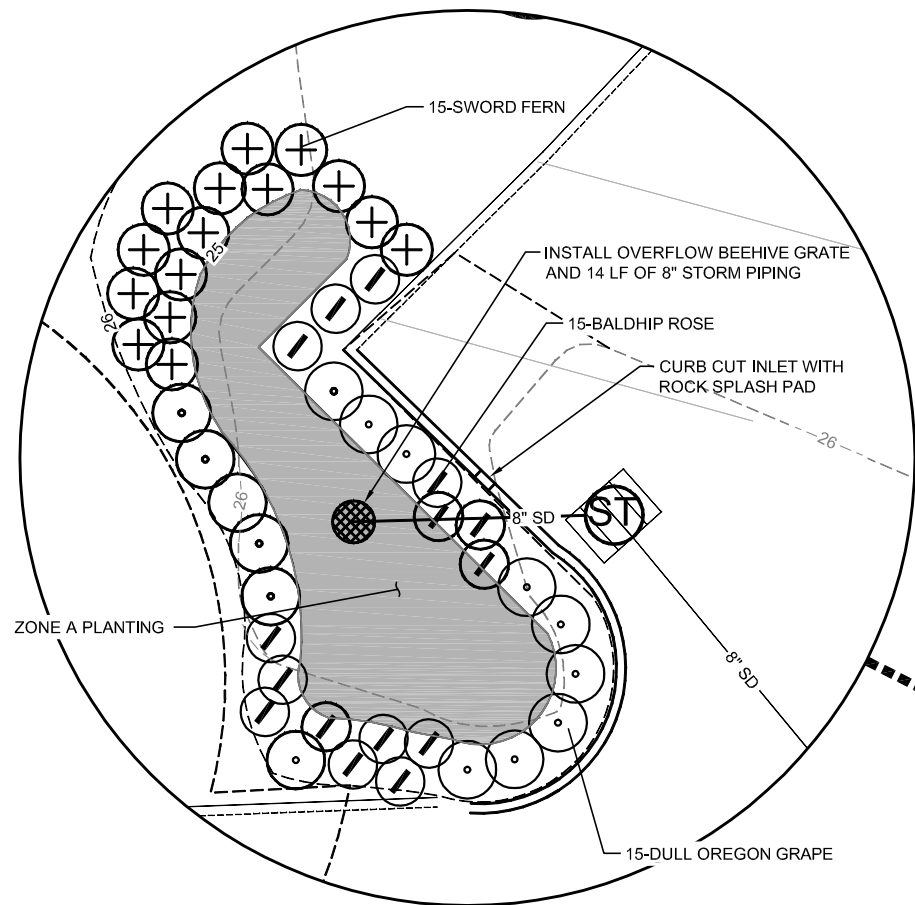
Proposed Fulton Pump Station Replacement Land Use Review

Proposed Improvements Plan - Central Parking Lot



Figure 3.4

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STORMWATER MANAGEMENT FACILITY B DETAIL



STORMWATER MANAGEMENT FACILITY B VEGETATED BASIN NOTES AND PLANT LIST

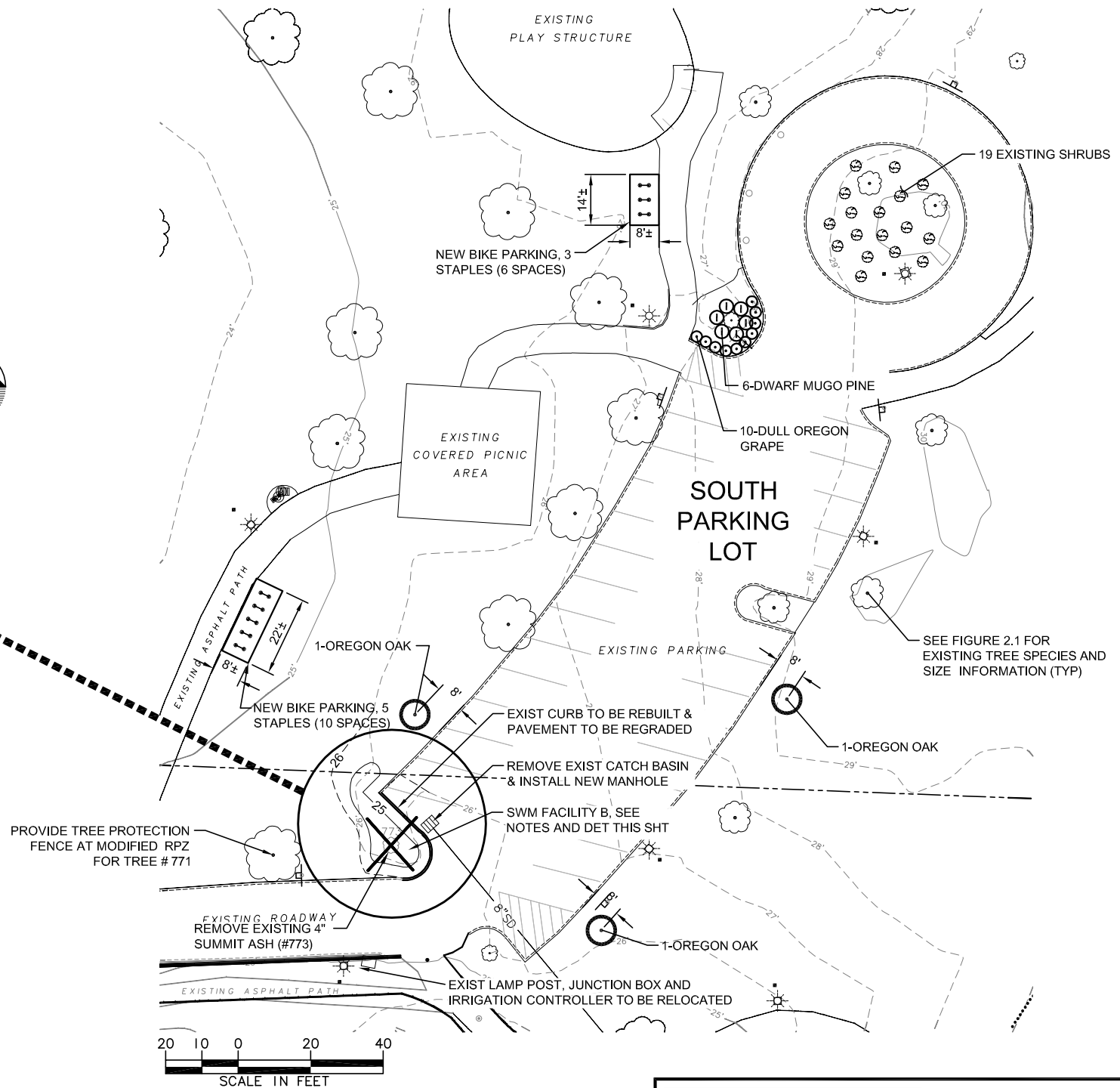
1. PROVIDE 18" DEPTH OF GROWING MEDIUM MEETING SPECIFICATIONS IN CITY OF PORTLAND STORMWATER MANUAL APPENDIX F-3, OR EQUAL PARTS SAND/LOAM/3-WAY COMPOST MIX. DO NOT COMPACT.
2. SUBMIT GROWING MEDIUM SAMPLE, SUPPLIER, SOURCE, AND ANALYSIS INFORMATION FOR APPROVAL PRIOR TO DELIVERY.
3. GROUP PLANTS BY SPECIES IN CLUSTERS. LOCATE PLANTS WITHIN THE SPECIFIED MOISTURE ZONE.

ZONE A - WET TO MOIST BOTTOM

SCIENTIFIC NAME	COMMON NAME	PLANT TYPE	EVER/DECID	SIZE	SPACING	QUANTITY
CORNUS SERICEA VAR "KELSEYII"	DWARF REDTWIG DOGWOOD	SM SHRUB	D	1 GC	3' O.C.	11
DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	FORB	E	4" POT	1' O.C.	50
JUNCUS ENSIFOLIUS	DAGGERLEAF RUSH	RUSH	E	4" POT	1' O.C.	50

ZONE B - MODERATELY MOIST TO DRY SIDE SLOPES

SCIENTIFIC NAME	COMMON NAME	PLANT TYPE	EVER/DECID	SIZE	SPACING	QUANTITY
BERBERIS NERVOSA	DULL OREGON GRAPE	SM SHRUB	E	1 GC	3' O.C.	15
POLYSTICHUM MUNITUM	SWORDFERN	FERN	E	1 GC	3' O.C.	15
ROSA GYMNOCARPA	BALDHIP ROSE	SM SHRUB	E	1 GC	3' O.C.	15



SOUTH PARKING LOT PLANT LIST

PLANT TYPE	COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	QUANTITY
TREES	OREGON OAK	QUERCUS GARRYANA	3" CAL	AS SHOWN	3
SHRUBS	DULL OREGON GRAPE	BERBERIS NERVOSA	1 GAL	2' O.C.	10
	DWARF MUGO PINE	PINUS MUGO MUGHUS	5 GAL	5' O.C.	6



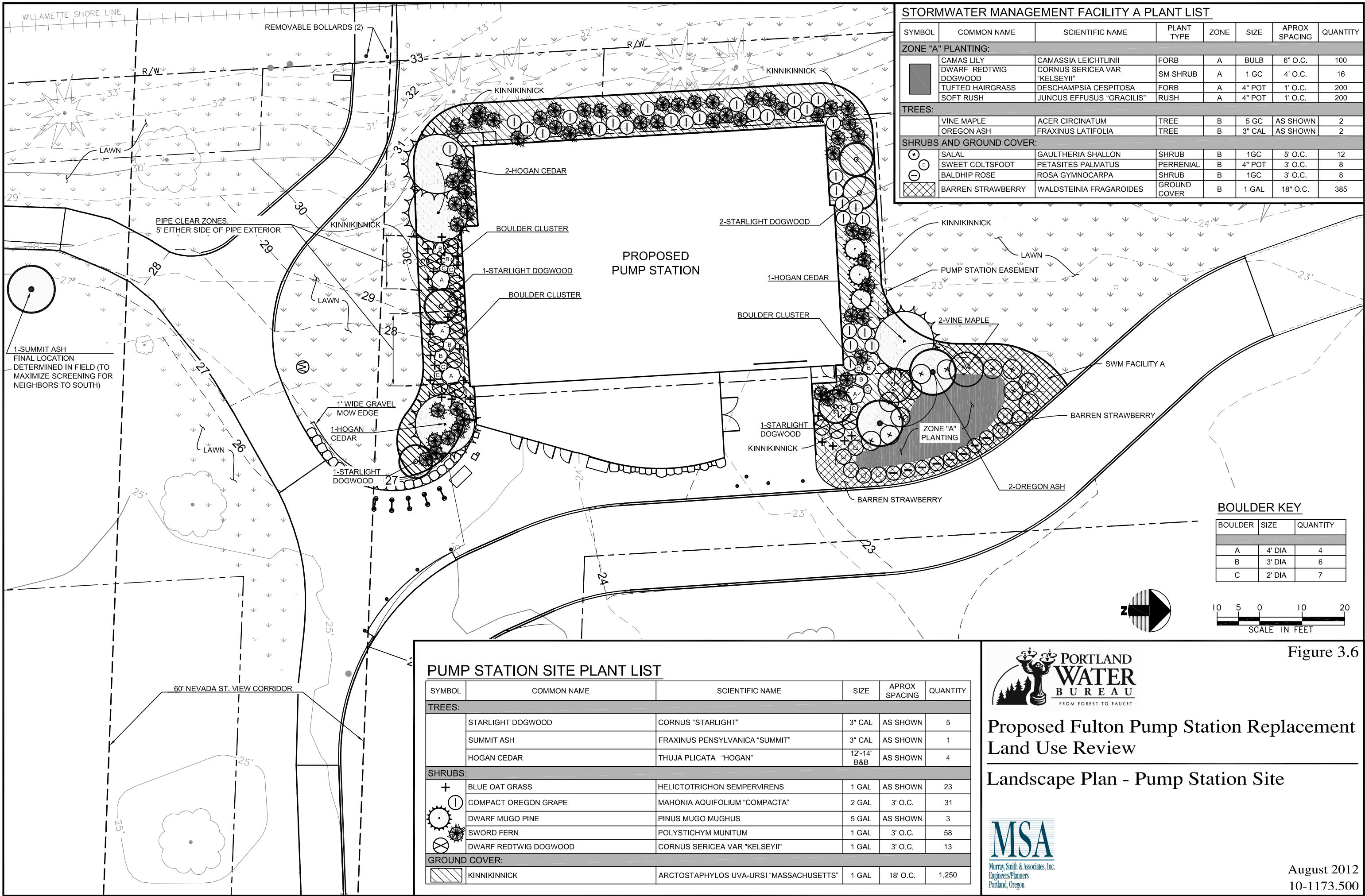
Proposed Fulton Pump Station Replacement Land Use Review

Proposed Improvements Plan - South Parking Lot



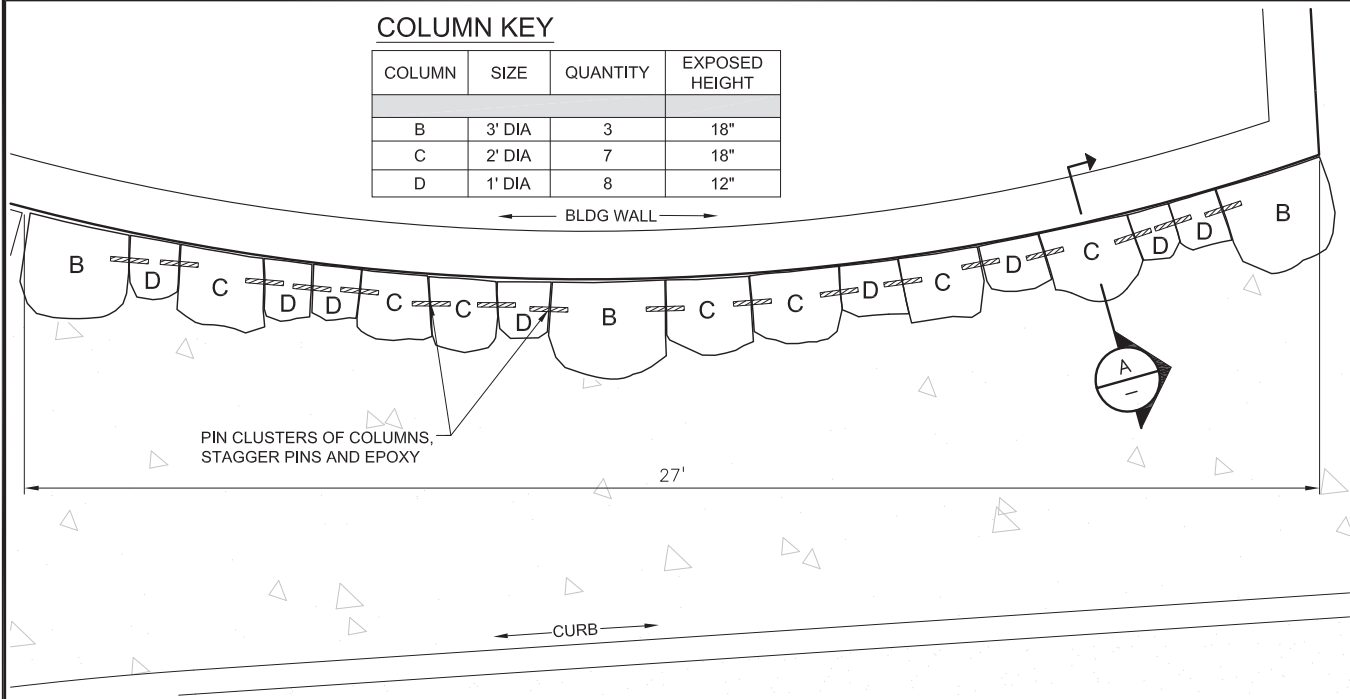
Figure 3.5

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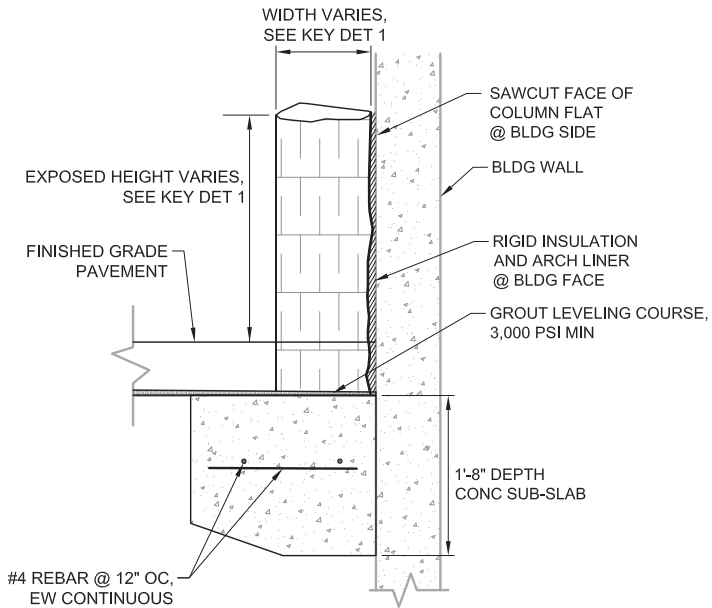
COLUMN KEY

COLUMN	SIZE	QUANTITY	EXPOSED HEIGHT
B	3' DIA	3	18"
C	2' DIA	7	18"
D	1' DIA	8	12"



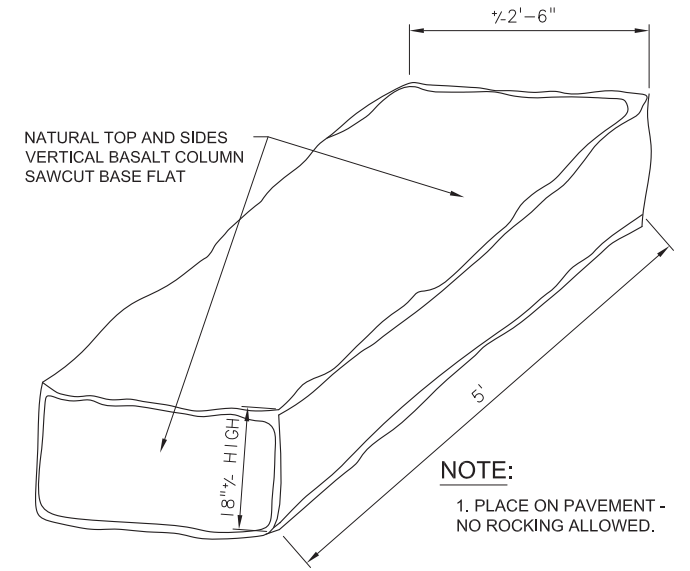
BASALT COLUMNS AT BLDG - PLAN

SCALE: 1"=4'-0"



BASALT COLUMNS AT BLDG - SECTION

SCALE: 1"=2'-0"



HORIZONTAL BASALT SLAB

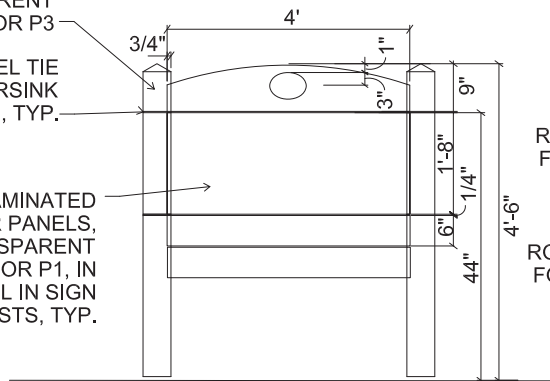
SCALE: 1"=2'-0"

4"X6" CLEAR HEART, KILN-DRIED CEDAR POSTS WITH SEMI-TRANSPARENT STAIN, COLOR P3

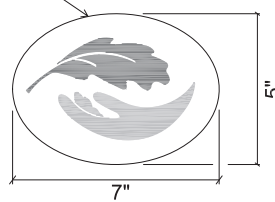
1" GALV. STEEL TIE ROD, COUNTERSINK NUTS & WASHERS, TYP.

1-1/2" LAMINATED CLEAR CEDAR PANELS, WITH SEMI-TRANSPARENT STAIN, COLOR P1, IN 1" DEEP CHANNEL IN SIGN POSTS, TYP.

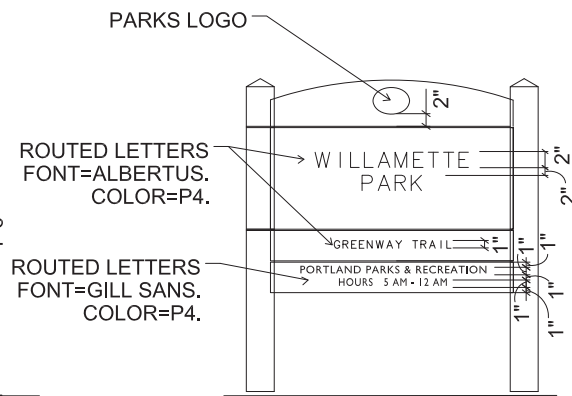
7" x 5" ROUTED LOGO BACKGROUND COLOR P4 LEAF COLOR P2 HAND COLOR P5



SIGN DETAIL



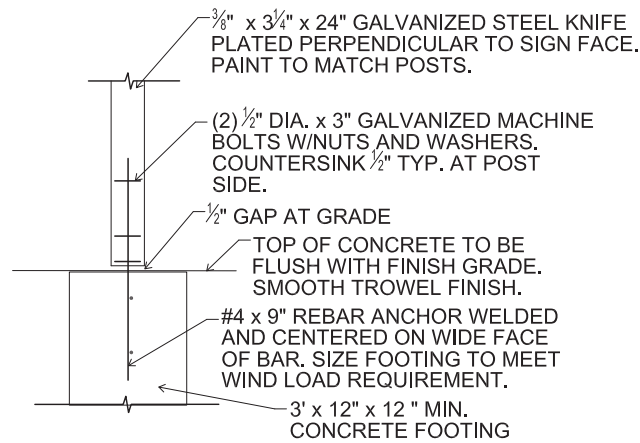
PARKS LOGO



TEXT LAYOUT

PARK SIGN DETAIL

NTS



PARKS SIGN FOOTING

Figure 3.7

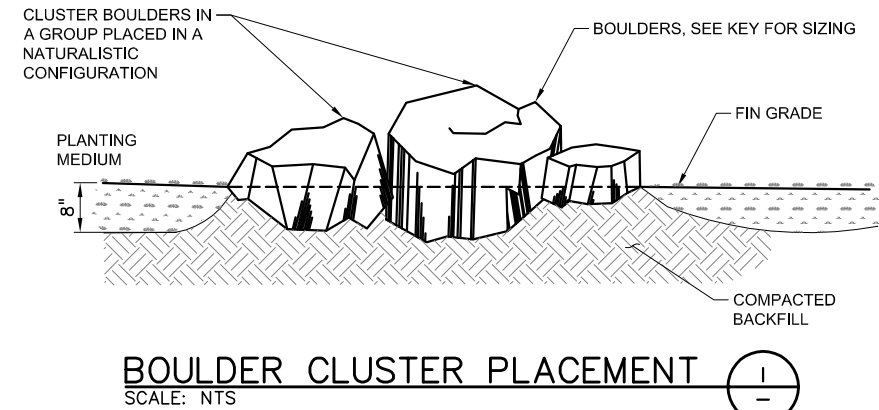
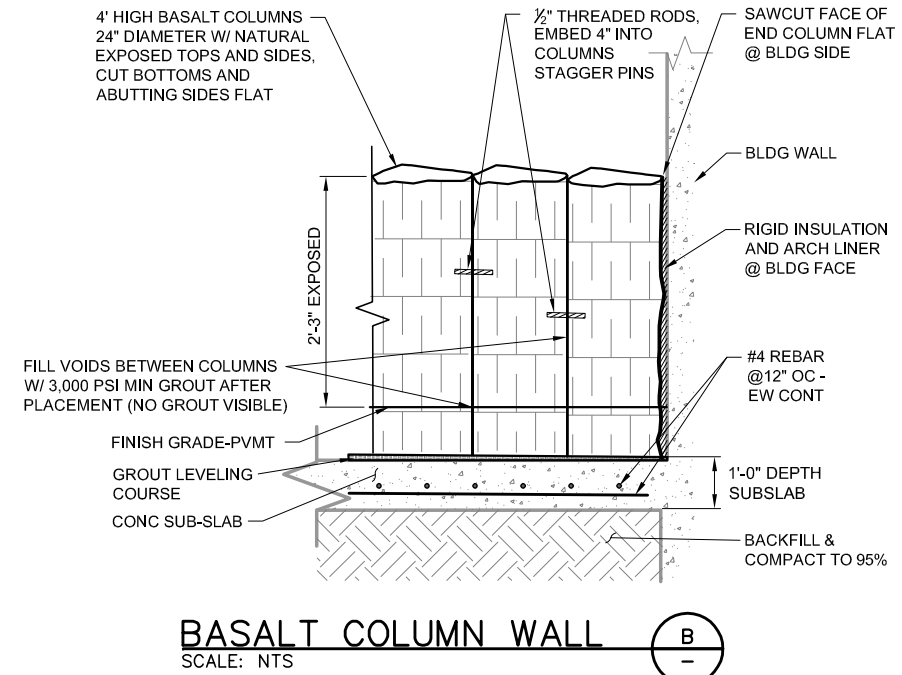
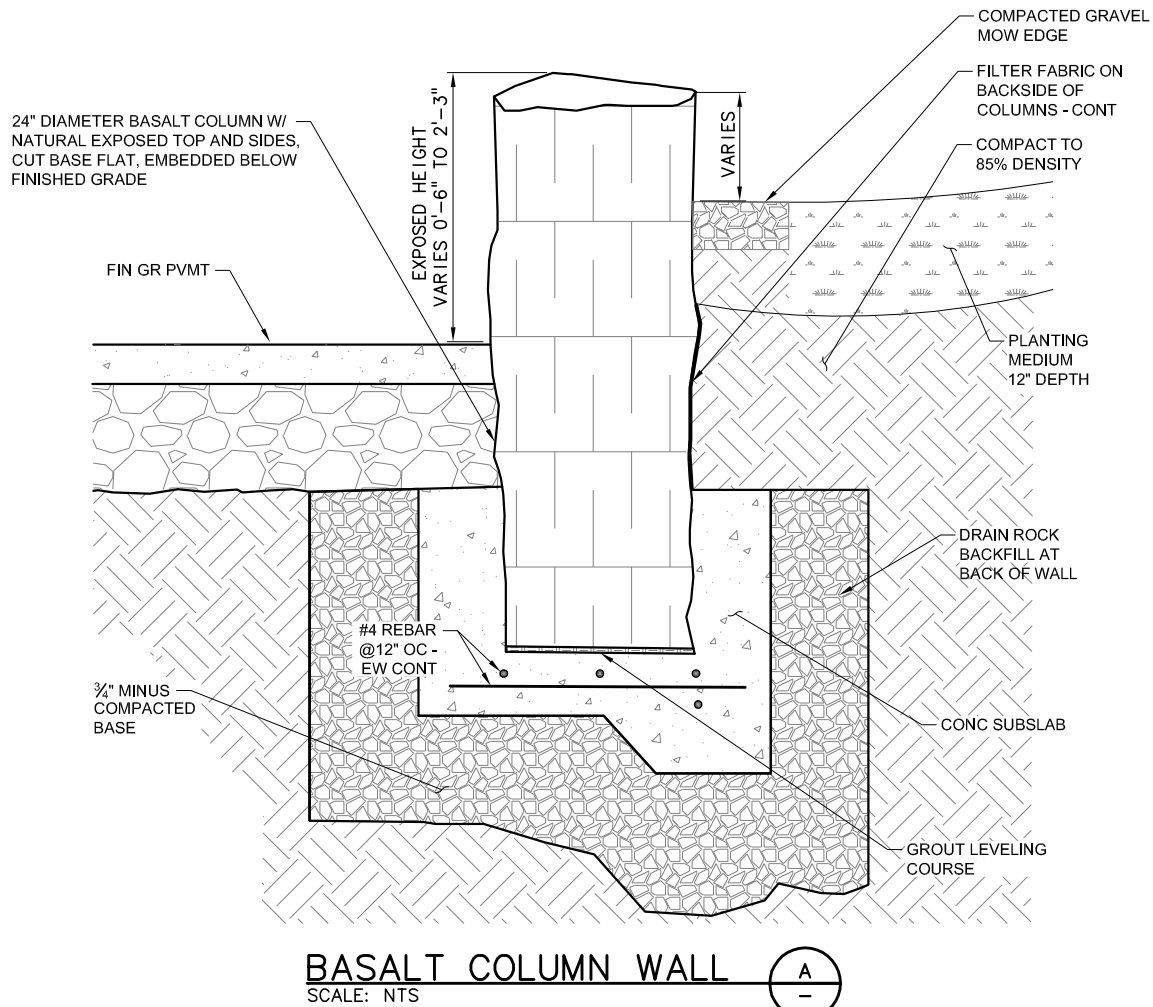
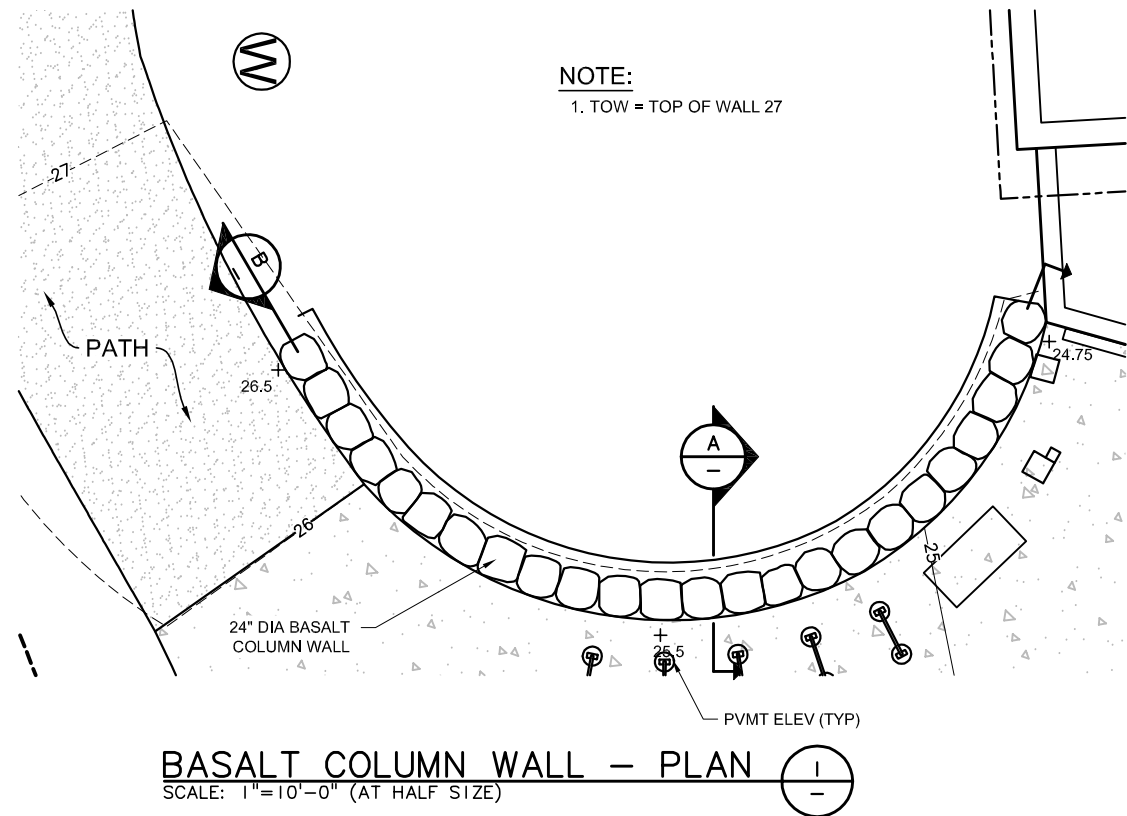


Proposed Fulton Pump Station Replacement
Land Use Review

Site Furnishings Sections and Details - 1



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GENERAL ROCKWORK INSTALLATION NOTES:

1. PLACE BASALT MOSS BOULDERS IN CLUSTERS OF VARYING SIZE AS INDICATED IN KEY. ALL BASALT COLUMNS AND SLABS TO HAVE NATURAL WEATHERED TOP AND EXPOSED SIDES WITH SMOOTH SAWCUT BOTTOMS AND ABUTTING SIDES.
2. AVOID DAMAGE TO BOULDERS AND COLUMNS DURING TRANSPORT, HANDLING, AND PLACEMENT. BASALT MATERIAL WILL BE INSPECTED PRIOR TO PLACEMENT AND DAMAGED MATERIAL WILL BE REJECTED.
3. SAW CUT BASALT COLUMNS TO FIT TIGHT IN A NATURAL CONFIGURATION WHEN BUTTED NEXT TO EACH OTHER. FILL JOINTS WITH GROUT OR EPOXY AS INDICATED WHERE JOINTS ARE NOT VISIBLE.
4. HORIZONTAL BASALT SLABS TO BE SAW CUT FLAT ON THE BOTTOM SIDE. PLACE CUT FACE ON LEVEL, SMOOTH, PAVED SURFACE WITHOUT ROCKING.
5. REMOVE ALL SHARP EDGES AND POINTS FROM ALL ROCKWORK AND BOULDERS; GRIND OR CHISEL SHARP PROTRUSIONS.



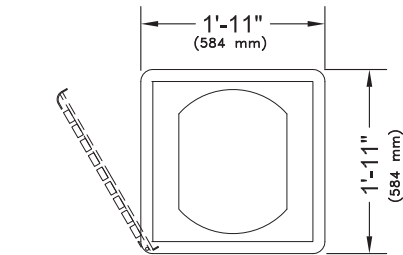
Proposed Fulton Pump Station Replacement Land Use Review

Site Furnishings Sections and Details - 2



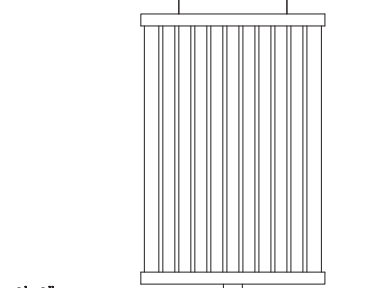
Figure 3.8

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TOP VIEW
SCALE: 1"=1'-0"

3'-8 3/4"
(1137 mm)

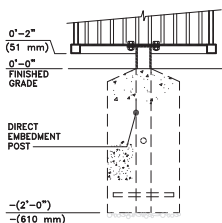


FRONT VIEW
SCALE: 1"=1'-0"

INCLUDES 36-GALLON RECYCLED PLASTIC LINER.
SEE DETAILS AT RIGHT FOR INDIVIDUAL MODELS.

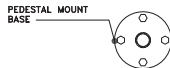
TRASH RECEPTACLE

SCALE: 1"=1'-0"



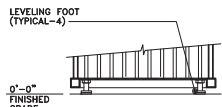
NOTE:
CONCRETE FOOTING AND NO. 4
REBAR (BY OTHERS) PER LOCAL
SOIL CONDITIONS. CONSULT
PROJECT ENGINEER FOR EXACT
REQUIREMENTS.

2834-DT-E (EMBEDMENT)
SCALE: 3/4"=1'-0"

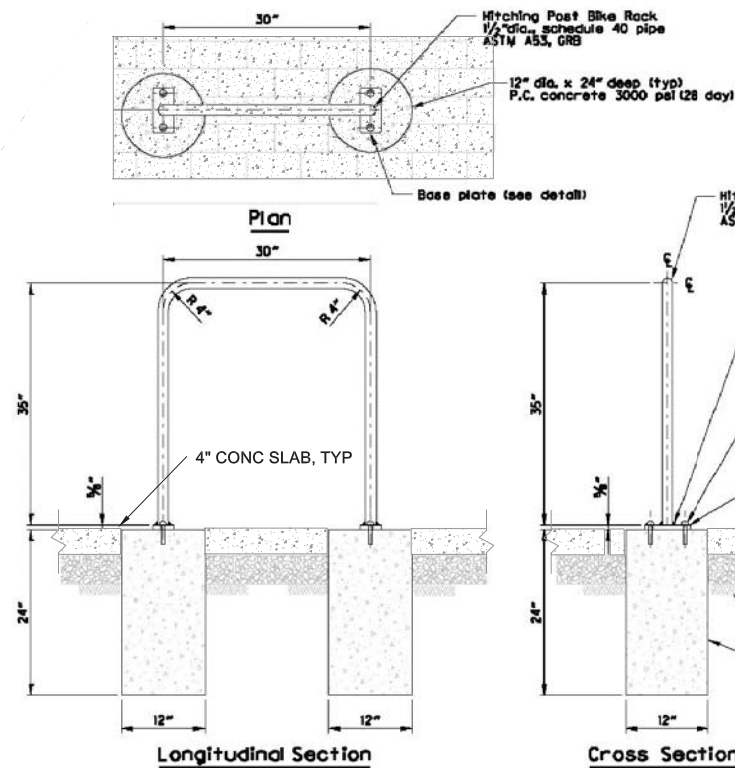


5/8" (16 mm) DIA.
HOLES PROVIDED FOR
ANCHORS BY OTHERS
(TYPICAL-4)

2834-DT-P (PEDESTAL MOUNT)
SCALE: 3/4"=1'-0"



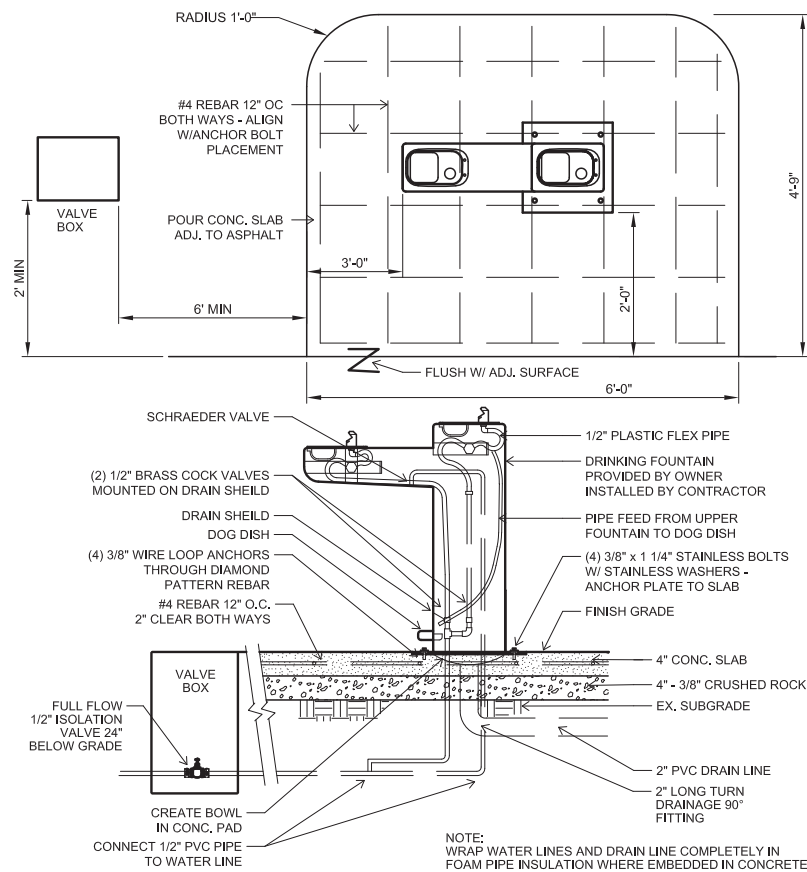
2834-DT-L (LEVELING MOUNT)
SCALE: 3/4"=1'-0"



Cross Section

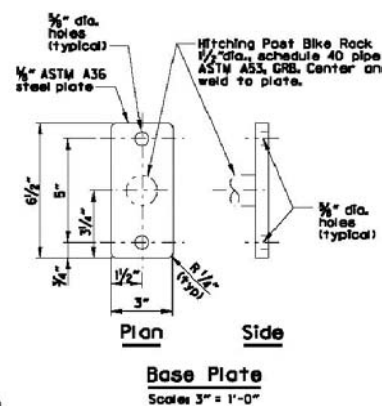
BIKE RACK

SCALE: NTS



DRINKING FOUNTAIN

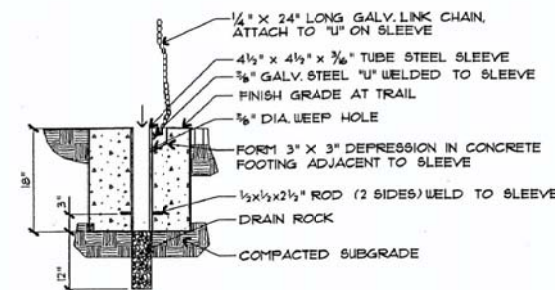
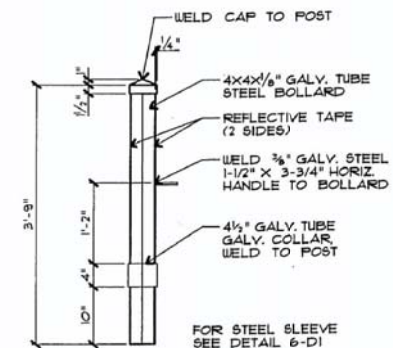
SCALE: NTS



Notes:
Finish: Sandblast to near white bare metal.
Galvanization: Galvanize complete unit (after welding)
to ASTM A123 specification.
Paint: black power coat applied using ASTM
D6386.399 standards.
Installation: Parallel to roadway. 3 feet from curb
face (2'6" min.). 4 feet from driveway wings. 2-feet
from sign posts, trees, parking meters, etc.

Hitching Post Bike Rack Surface Mounted

Scale: 1"=1'-0"

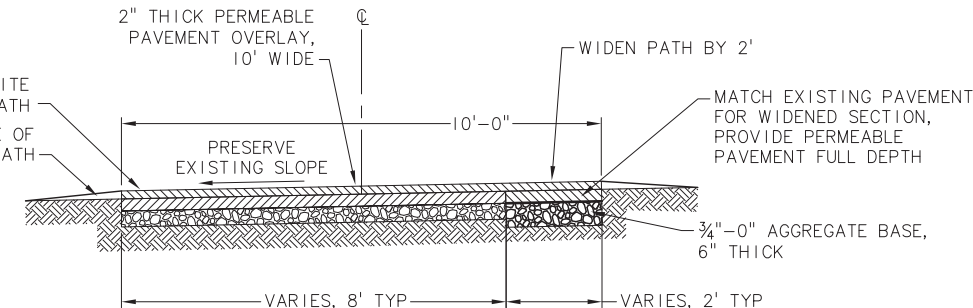


REMOVABLE BOLLARD

SCALE: NTS

4

PAINT 4" WIDE REFLECTIVE WHITE
FOG LINE BOTH SIDES OF PATH
BACKFILL NATIVE SOIL TO EDGE OF
PAVEMENT BOTH SIDES OF PATH



TYPE "L" WALKING TRAIL SECTION

SCALE: NTS

6



Figure 3.9

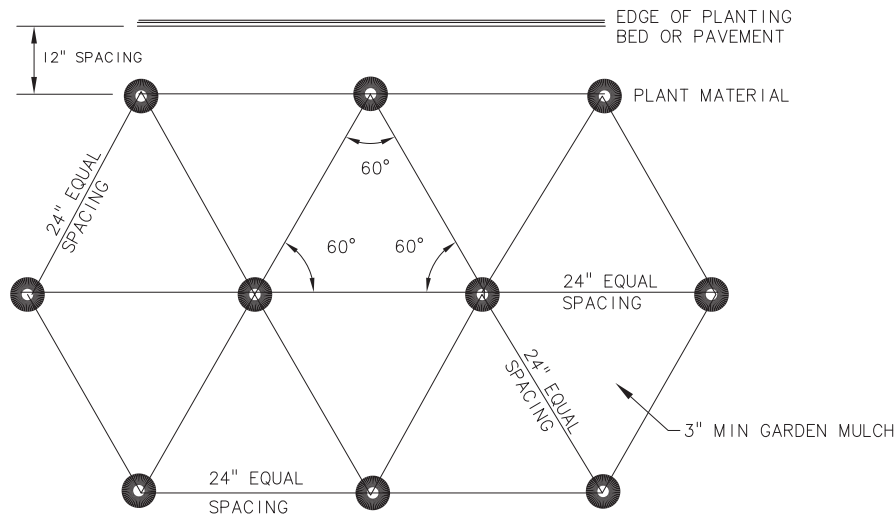
Proposed Fulton Pump Station Replacement Land Use Review

Site Furnishings Sections and Details - 3



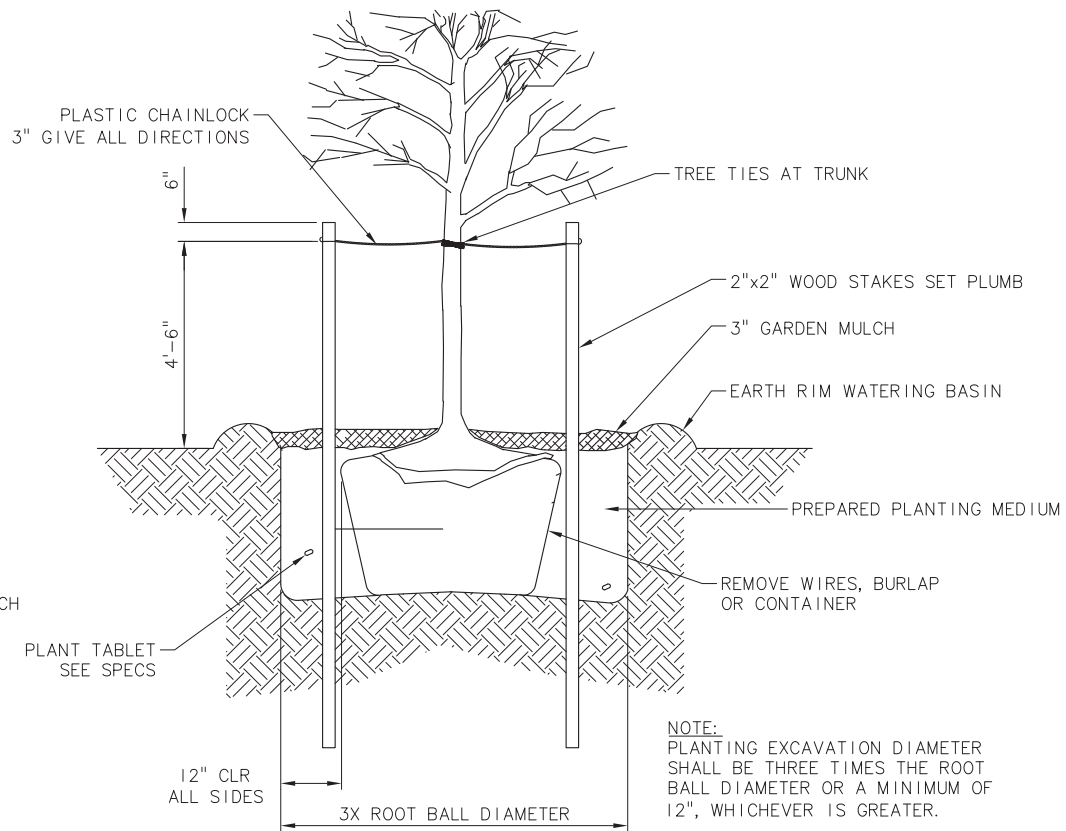
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Engineers/Planners
Portland, Oregon

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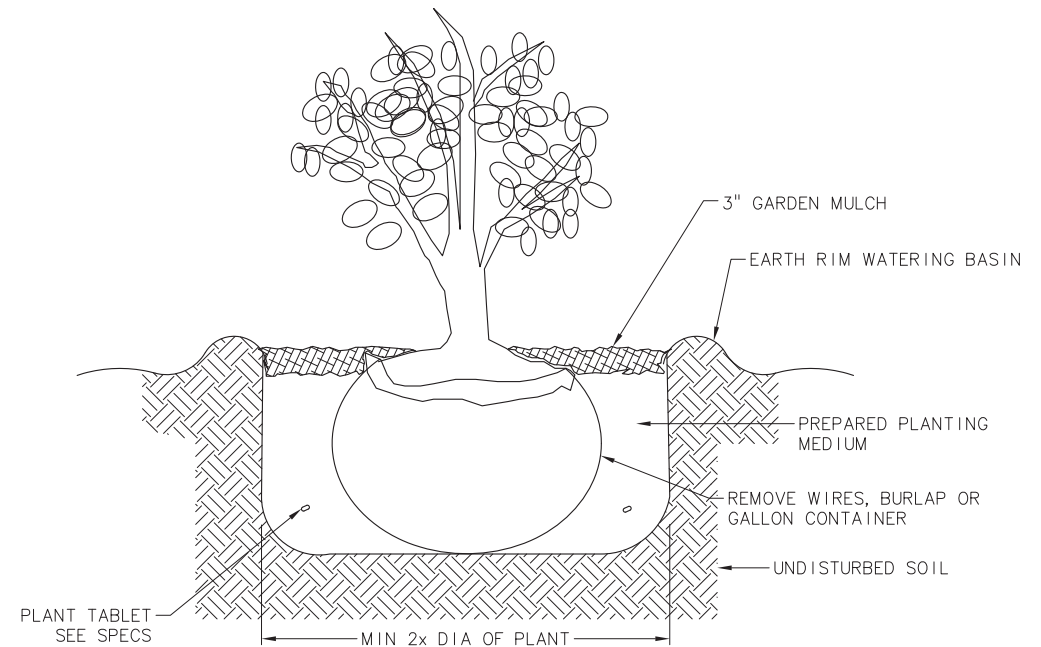
GROUNDCOVER SPACING DETAIL

SCALE: NTS



TREE PLANTING DETAIL

SCALE: NTS



SHRUB PLANTING DETAIL

SCALE: NTS



GENERAL PLANTING NOTES:

1. PROTECT EXISTING TREES TO REMAIN FROM CONSTRUCTION OPERATIONS. DO NOT ENCROACH UPON, FILL, OR OTHERWISE DISTURB THE AREA WITHIN THE DRIPLINE OF TREES OR SHRUBS TO BE PRESERVED.
2. STOCKPILE EXISTING TOPSOIL FOR USE IN THE LANDSCAPE BEDS AND INSTALL TEMPORARY SILT FENCING AROUND STOCKPILES. USE STOCKPILED TOPSOIL FOR LANDSCAPE WORK AND AMEND AS SPECIFIED PRIOR TO USE IN PLANT PITS AND BEDS. SUBGRADE SOILS ARE NOT ACCEPTABLE FOR USE IN LANDSCAPE WORK.
3. CHECK AND CONFIRM PLANT QUANTITIES. PLANT TREES AND SHRUBS IN LOCATIONS SHOWN, SPACED TO COMPLETELY FILL BEDS WITH THE QUANTITIES INDICATED IN THE PLANT LIST(S).
4. CONTRACTOR TO SECURE AVAILABILITY OF PLANT MATERIAL SIX MONTHS PRIOR TO COMMENCEMENT OF WORK.
5. MULCH ALL PLANTS AND BEDS WITH 3" COMPOSTED GARDEN MULCH PRODUCT. BARK CHIPS OR DUST ARE NOT ACCEPTABLE.
6. SEE SPECIFICATIONS FOR LAWN SEED AND VEGETATED STORMWATER FACILITY SEEDING.
7. STAKE ALL TREE LOCATIONS FOR REVIEW BY PROJECT ENGINEER PRIOR TO PLANTING.
8. PLANT MATERIAL TO BE MAINTAINED AND GUARANTEED AFTER COMPLETION OF THE PROJECT FOR A PERIOD OF 2 YEARS. REMOVE NOXIOUS AND INVASIVE SPECIES AND MAINTAIN WEED CONTROL FOR THE DURATION OF THE 2-YEAR GUARANTEE PERIOD. SEE SPECIFICATIONS FOR REQUIREMENTS OF THE PLANT MAINTENANCE AND GUARANTEE PERIOD.

STORMWATER FACILITY PLANTING NOTES:

1. PROVIDE 18" DEPTH OF GROWING MEDIUM MEETING SPECIFICATIONS IN CITY OF PORTLAND STORMWATER MANUAL APPENDIX F-3, OR EQUAL PARTS SAND/ LOAM/ 3-WAY COMPOST MIX. DO NOT COMPACT.
2. SUBMIT GROWING MEDIUM SAMPLE, SUPPLIER, SOURCE, AND ANALYSIS INFORMATION FOR APPROVAL PRIOR TO DELIVERY.



Figure 3.10

Proposed Fulton Pump Station Replacement Land Use Review

Landscape Details



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THE GOAL OF THE PROPOSED REVEGETATION PROJECT IS TO ENHANCE THE DIVERSITY AND DENSITY OF NATIVE SHRUB SPECIES IN THE TARGETED AREA OF THE PARK. CURRENTLY THE NATIVE VEGETATION AT THIS LOCATION IS DOMINATED BY ONLY TWO SPECIES: *SALIX LASIANDRA* (PACIFIC WILLOW) AND *CORNUS SERICEA* (RED TWIG DOGWOOD). NEW NATIVE SHRUBS WILL BE INTERMIXED WITH EXISTING VEGETATION AND DISTRIBUTED WITHIN THE DESIGNATED PLANTING AREA SHOWN ON PLAN – WILLAMETTE GREENWAY PLANTING AREA. THIS AREA INCLUDES THE WILLAMETTE RIVERBANK AND THE MUDFLAT BELOW THE BANK.

SHRUB/SCRUB SPECIES*

% OF TOTAL	APPROX. QTY.	LATIN NAME	COMMON NAME	SIZE	SPACING
10-15%	36-54	<i>FRAXINUS LATIFOLIA</i>	OREGON ASH	1 GAL, TALL 4", OR EQUIV.	MIN. 10' FROM EXISTING TREES
10-15%	36-54	<i>PHYSOCARPOS CAPITATUS</i>	PACIFIC NINEBARK	"	"
25%	90	<i>SALIX FLUVIATILIS</i>	COLUMBIA RIVER WILLOW	"	"
25% COMBINED	0-54	<i>SALIX SESSILIFOLIA</i>	SOFT LEAF WILLOW	"	"
	0-54	<i>SALIX SITCHENSIS</i>	SITKA WILLOW	"	"
	0-54	<i>SALIX RIGIDA VAR. MACROGEMMA</i>	RIGID WILLOW	"	"
25%	90	<i>SPIRAEA DOUGLASII</i>	DOUGLAS SPIRAEA	"	"
100%	362				



PLAN - WILLAMETTE GREENWAY PLANTING AREA
SCALE: 1" = 100'



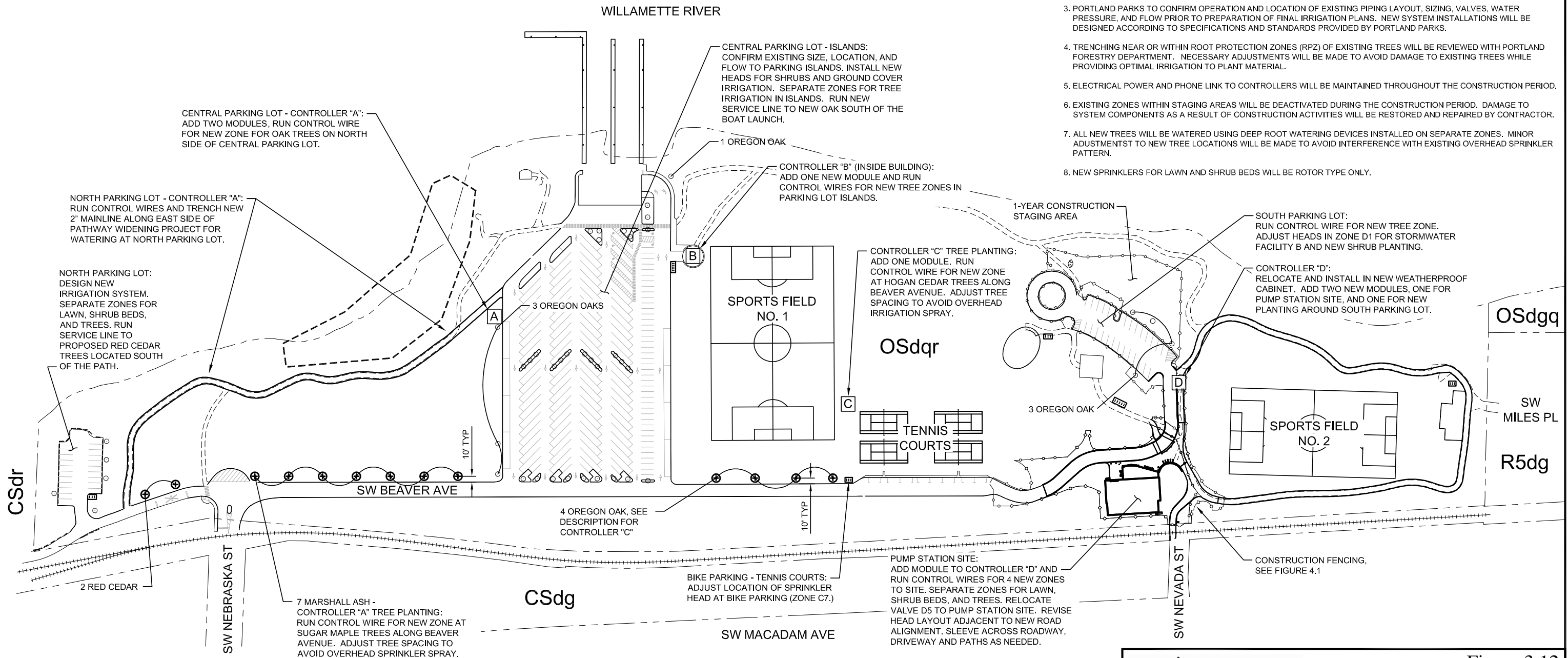
Proposed Fulton Pump Station Replacement
Land Use Review

Proposed Improvements Plan - Greenway
Bank Planting Plan



Figure 3.11

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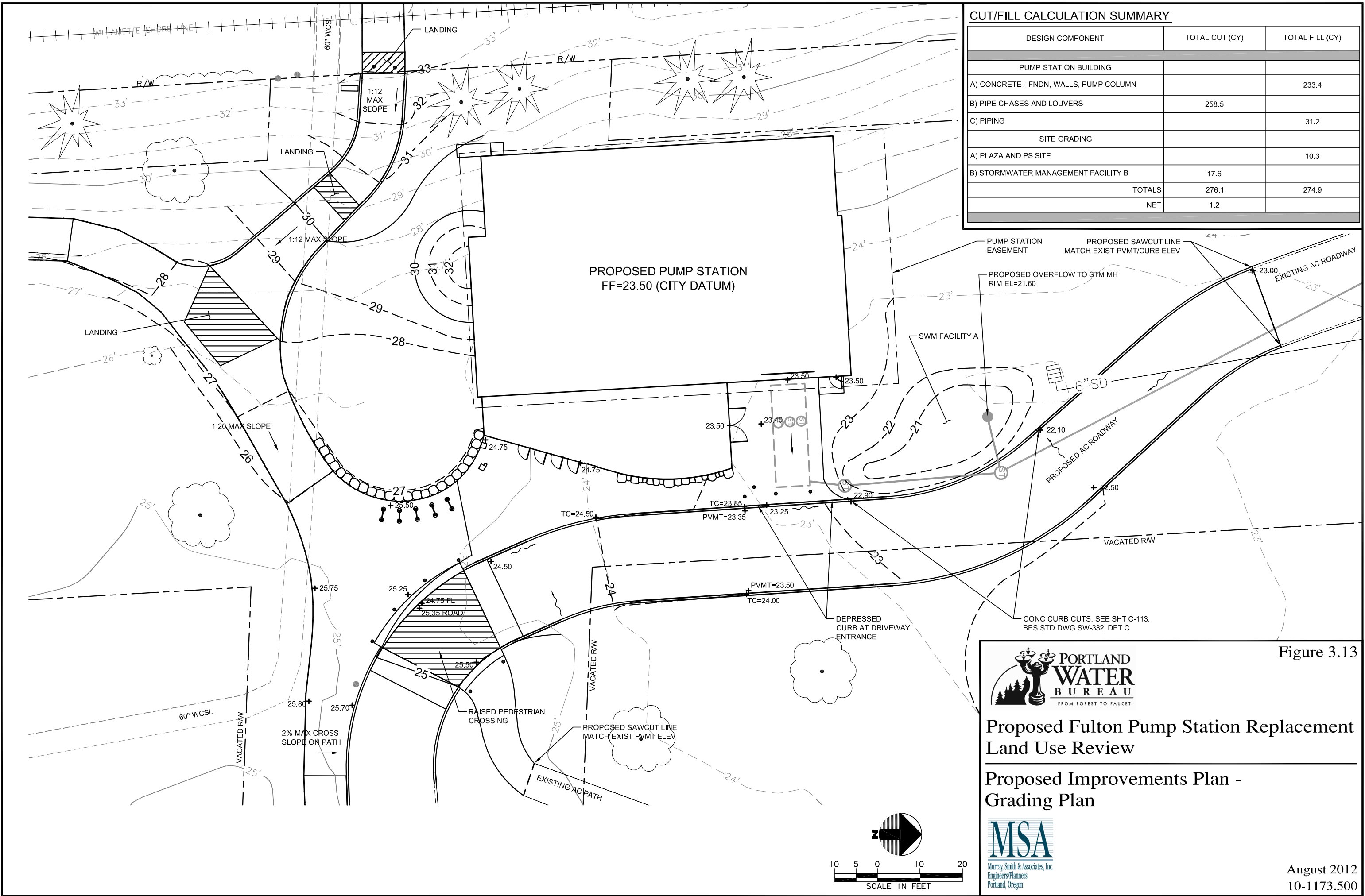
Proposed Fulton Pump Station Replacement Land Use Review

Proposed Improvements Plan - Irrigation

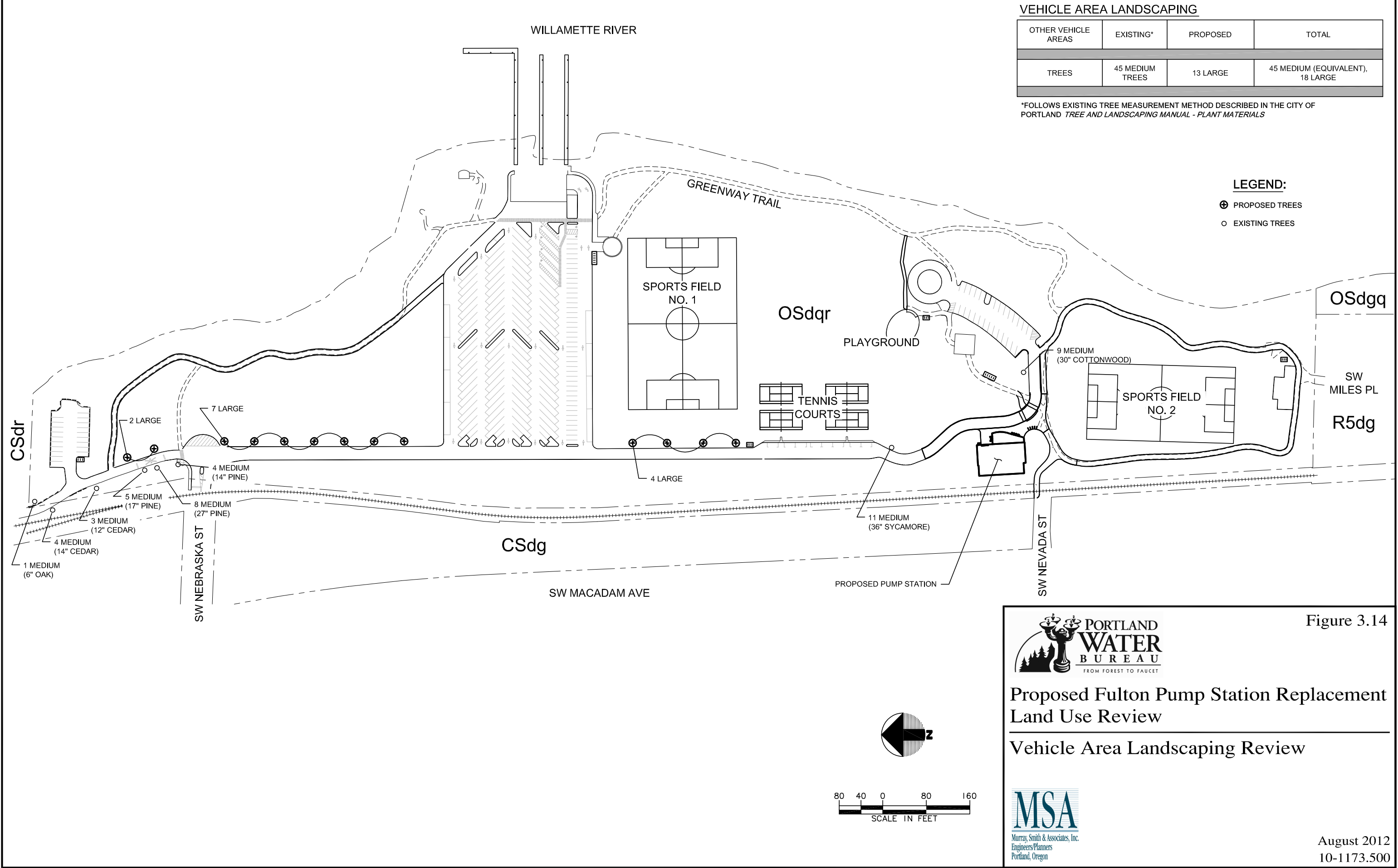


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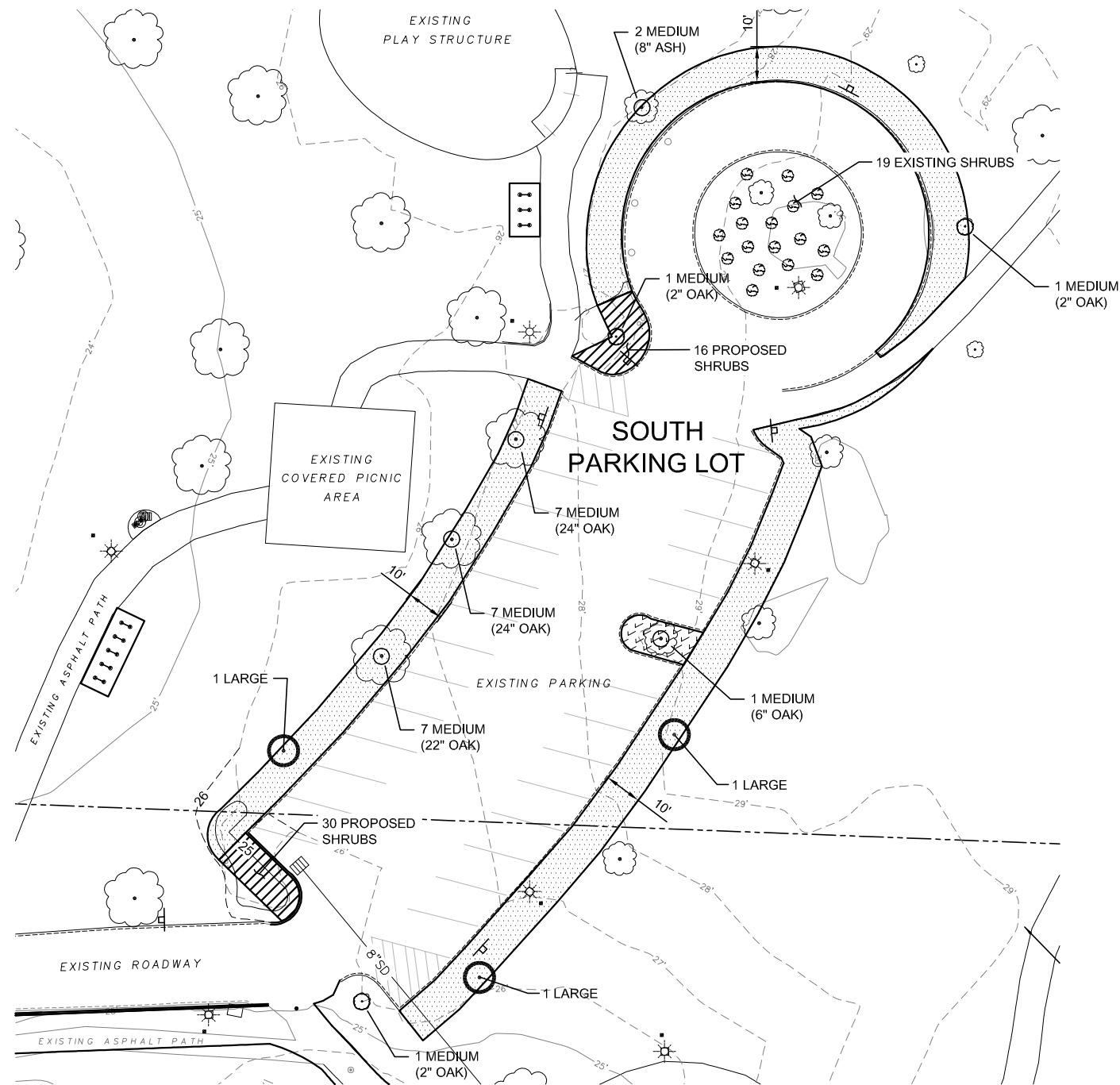
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SOUTH PARKING LOT - PARKING AREA LANDSCAPING

SOUTH LOT (27 SPACES)	EXISTING*	REQUIRED	NET	PROPOSED	BALANCE
TREES	27 MEDIUM TREES	9 MEDIUM (OR EQUIVALENT)	+18 MEDIUM (OR EQUIVALENT)	3 LARGE	+22 MEDIUM
SHRUBS	19	41	-22	46	+24
GROUNDCOVER / LANDSCAPED AREA	6,739 SF	1,215 SF	+5,524 SF	467 SF**	+5,991 SF

*FOLLOWS EXISTING TREE MEASUREMENT METHOD DESCRIBED IN THE CITY OF PORTLAND
TREE AND LANDSCAPING MANUAL - PLANT MATERIALS
**NEW LANDSCAPED AREA (WHERE MULCH CURRENTLY EXISTS)

LEGEND:

- PROPOSED TREES
- EXISTING TREES
- EXISTING GROUNDCOVER: ST. JOHN'S WORT
- EXISTING GROUNDCOVER: GRASS
- PROPOSED LANDSCAPED AREAS



Proposed Fulton Pump Station Replacement
Land Use Review

South Parking Lot Area Landscaping
Review



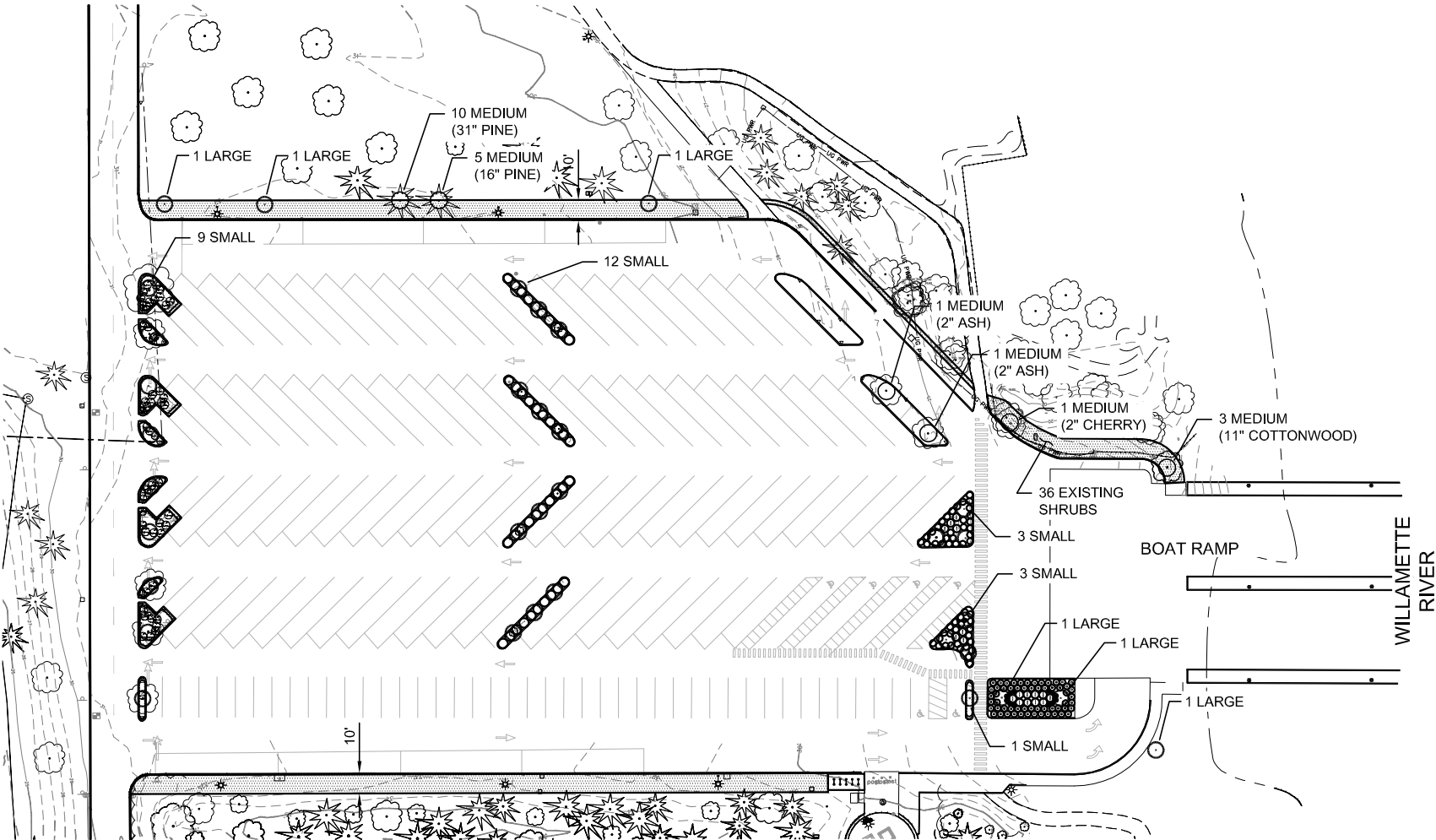
Figure 3.15

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NORTH PARKING LOT - PARKING AREA LANDSCAPING

NORTH LOT (22 SPACES)	EXISTING*	REQUIRED	NET	PROPOSED	BALANCE
TREES	4 MEDIUM TREES	7 MEDIUM (OR EQUIVALENT)	-3 MEDIUM (OR EQUIVALENT)	4 LARGE	+2 MEDIUM
SHRUBS	0	33	-33	45	+12
GROUNDCOVER / LANDSCAPED AREA	3,461 SF	990 SF	+2,471 SF	110 SF**	+2,581 SF

*FOLLOWS EXISTING TREE MEASUREMENT METHOD DESCRIBED IN THE CITY OF PORTLAND
TREE AND LANDSCAPING MANUAL - PLANT MATERIALS
**NEW LANDSCAPED AREA (WHERE MULCH CURRENTLY EXISTS)

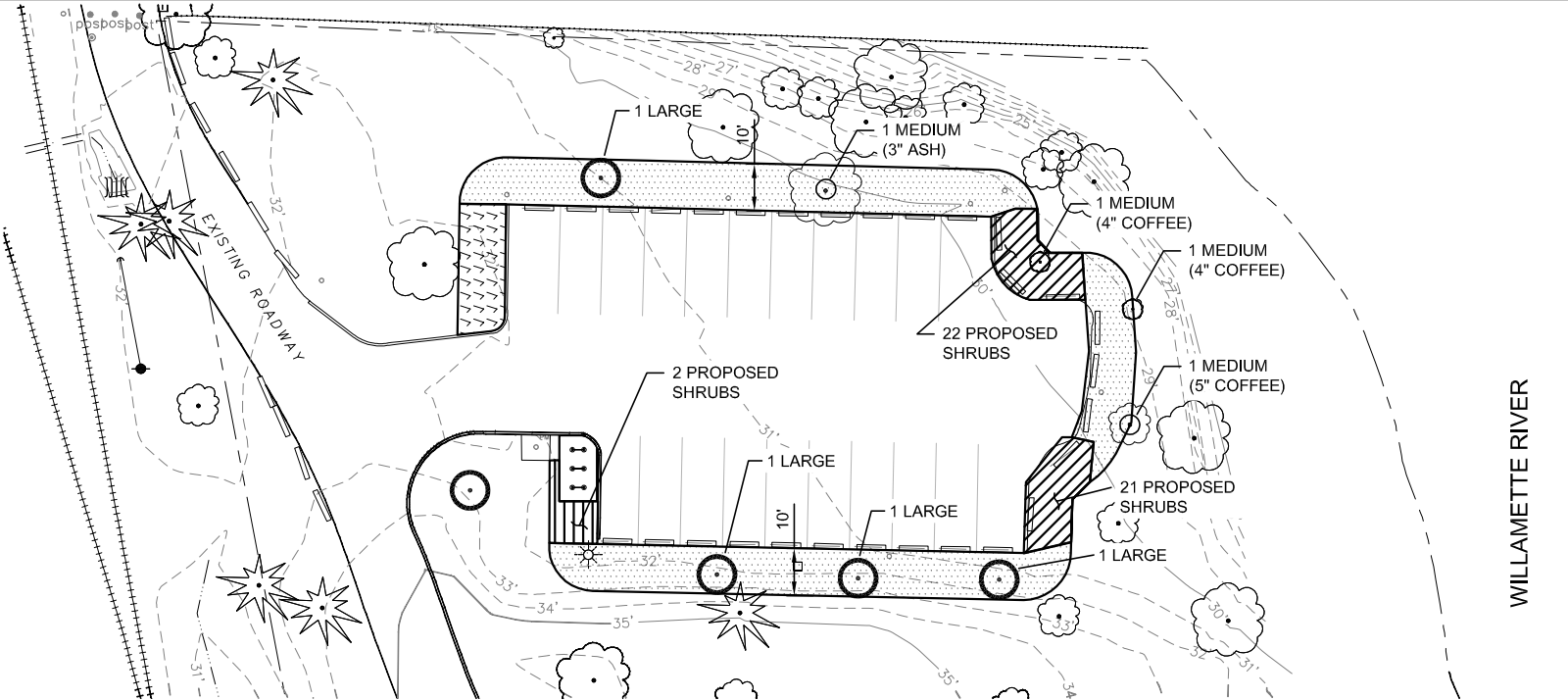


PLAN - CENTRAL PARKING LOT



LEGEND:

- PROPOSED TREES
- EXISTING TREES
- EXISTING GROUNDCOVER: GRASS



PLAN - NORTH PARKING LOT



LEGEND:

- PROPOSED TREES
- EXISTING TREES
- EXISTING GROUNDCOVER: ST. JOHN'S WORT
- EXISTING GROUNDCOVER: GRASS
- PROPOSED SHRUB PLANTINGS (EXISTING GRASS)
- PROPOSED LANDSCAPED AREAS

CENTRAL PARKING LOT - PARKING AREA LANDSCAPING

CENTRAL LOT (154 SPACES)	EXISTING*	REQUIRED	NET	PROPOSED	BALANCE
TREES	21 MEDIUM TREES	52 MEDIUM (OR EQUIVALENT)	-31 MEDIUM (OR EQUIVALENT)	6 LARGE, 28 SMALL	-4 MEDIUM
SHRUBS	36	231	-195	179	-16
GROUNDCOVER / LANDSCAPED AREA	11,677 SF	6,930 SF	4,747 SF	0 SF**	+4,747 SF

*FOLLOWS EXISTING TREE MEASUREMENT METHOD DESCRIBED IN THE CITY OF PORTLAND
TREE AND LANDSCAPING MANUAL - PLANT MATERIALS
**NEW LANDSCAPING REPLACES EXISTING



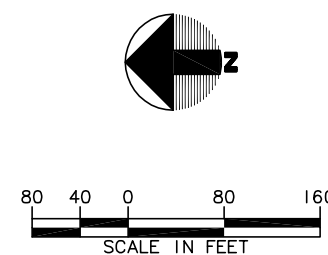
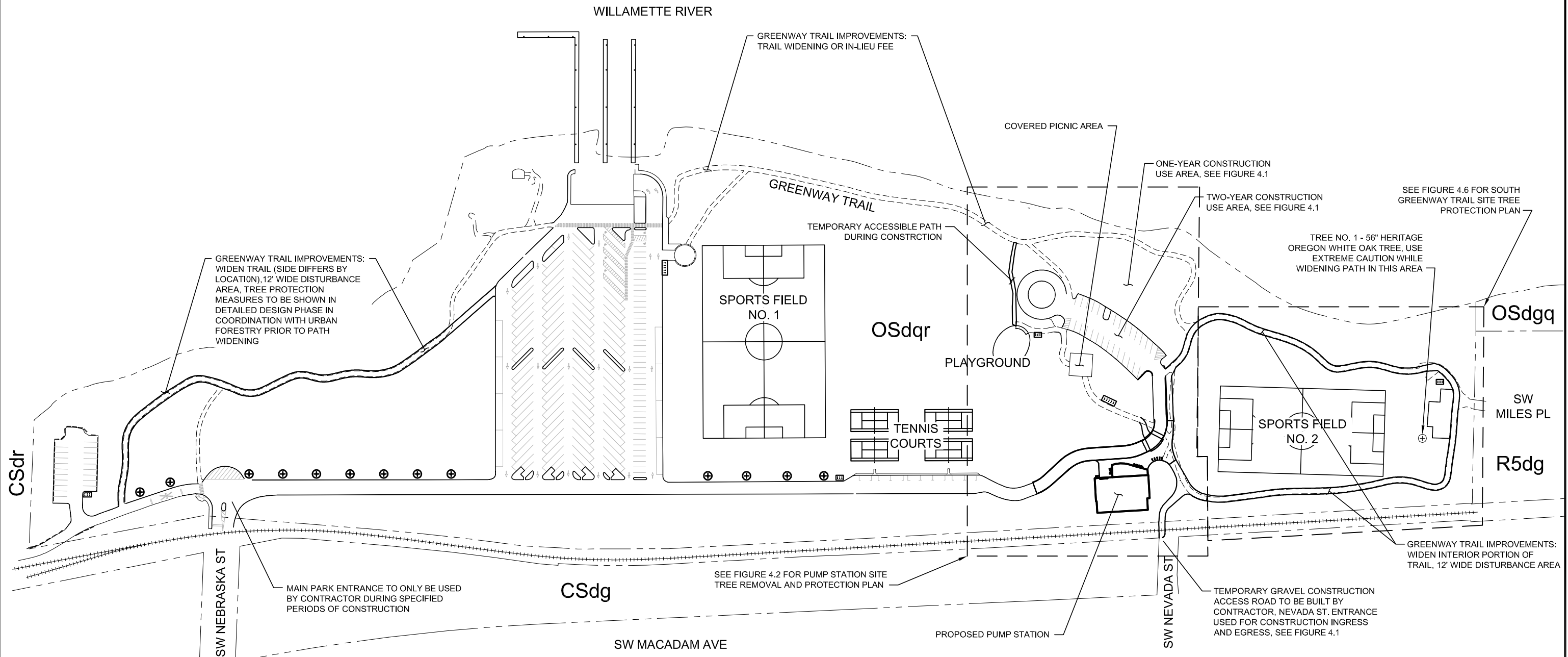
Proposed Fulton Pump Station Replacement
Land Use Review


North and Central Parking Lot Areas
Landscaping Review



Figure 3.16

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PORTLAND
WATER
BUREAU
FROM FOREST TO FAUCET

Figure 4.0

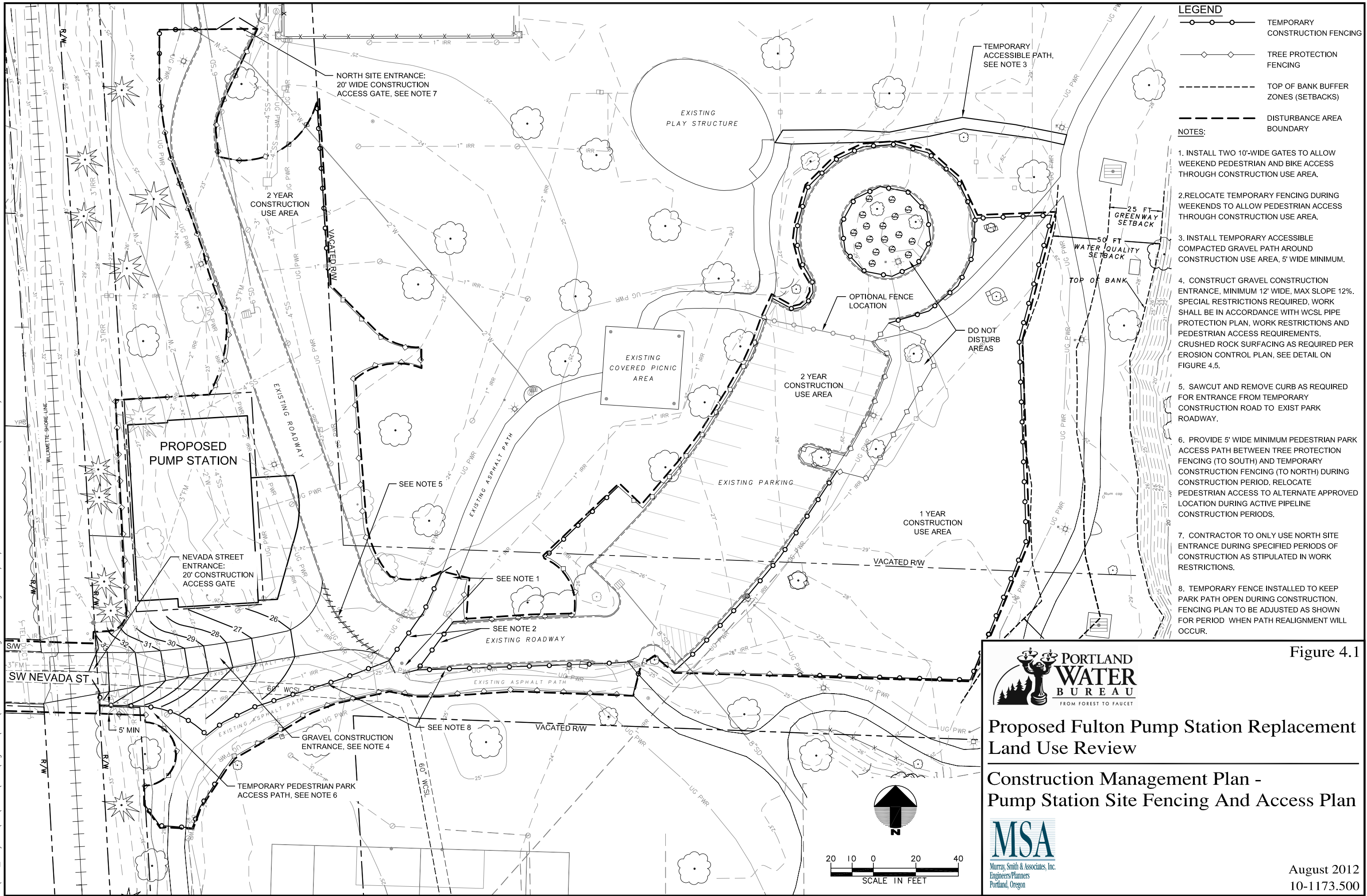
Proposed Fulton Pump Station Replacement
Land Use Review

Construction Management Plan - Overall
Site Access and Tree Protection Plan



MSA
Murray, Smith & Associates, Inc.
Engineers/Planners
Portland, Oregon

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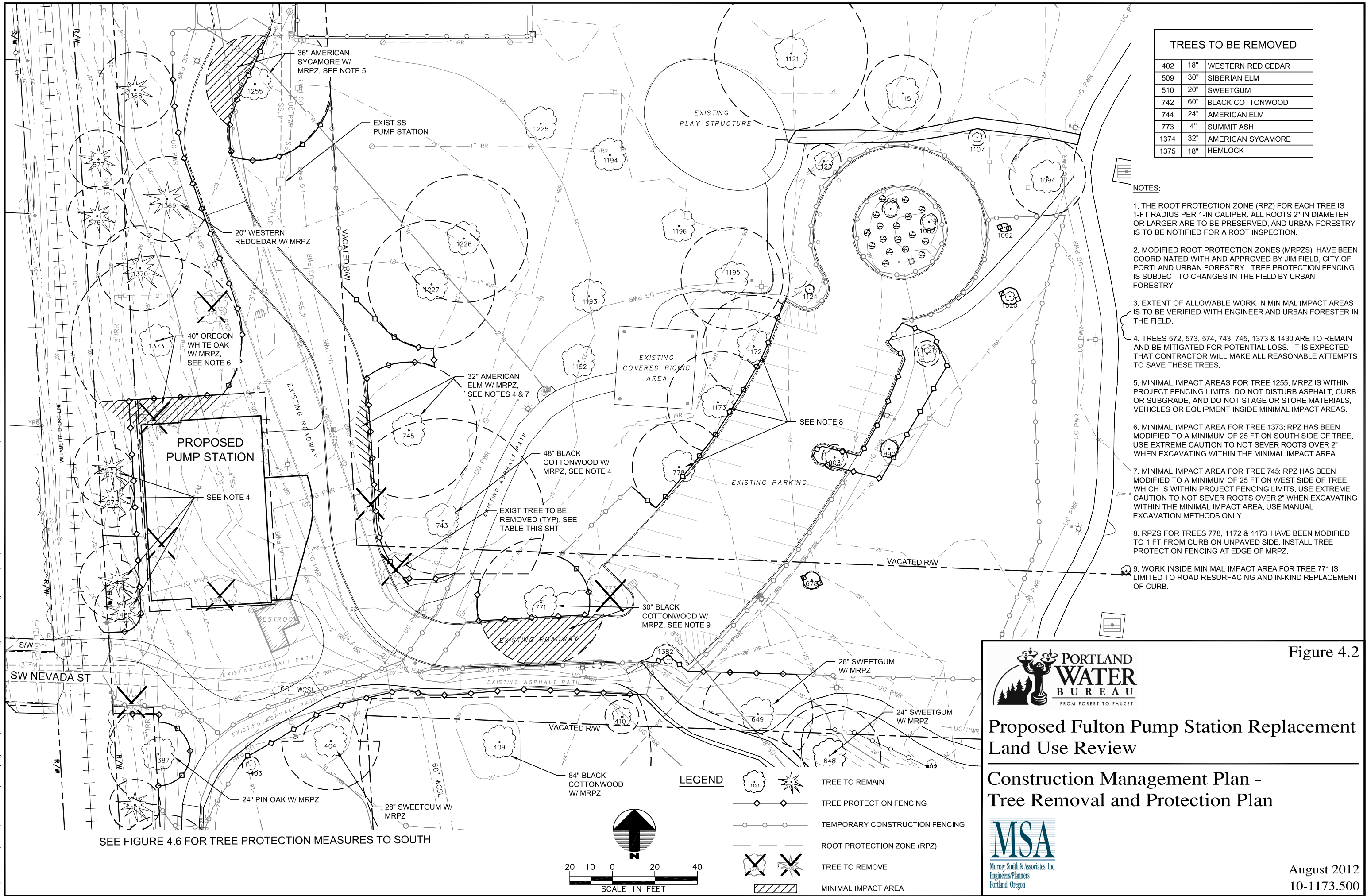


Figure 4.2



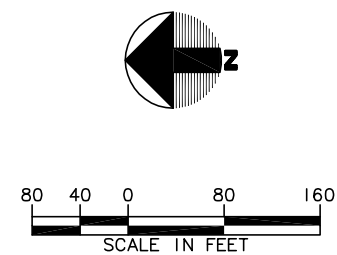
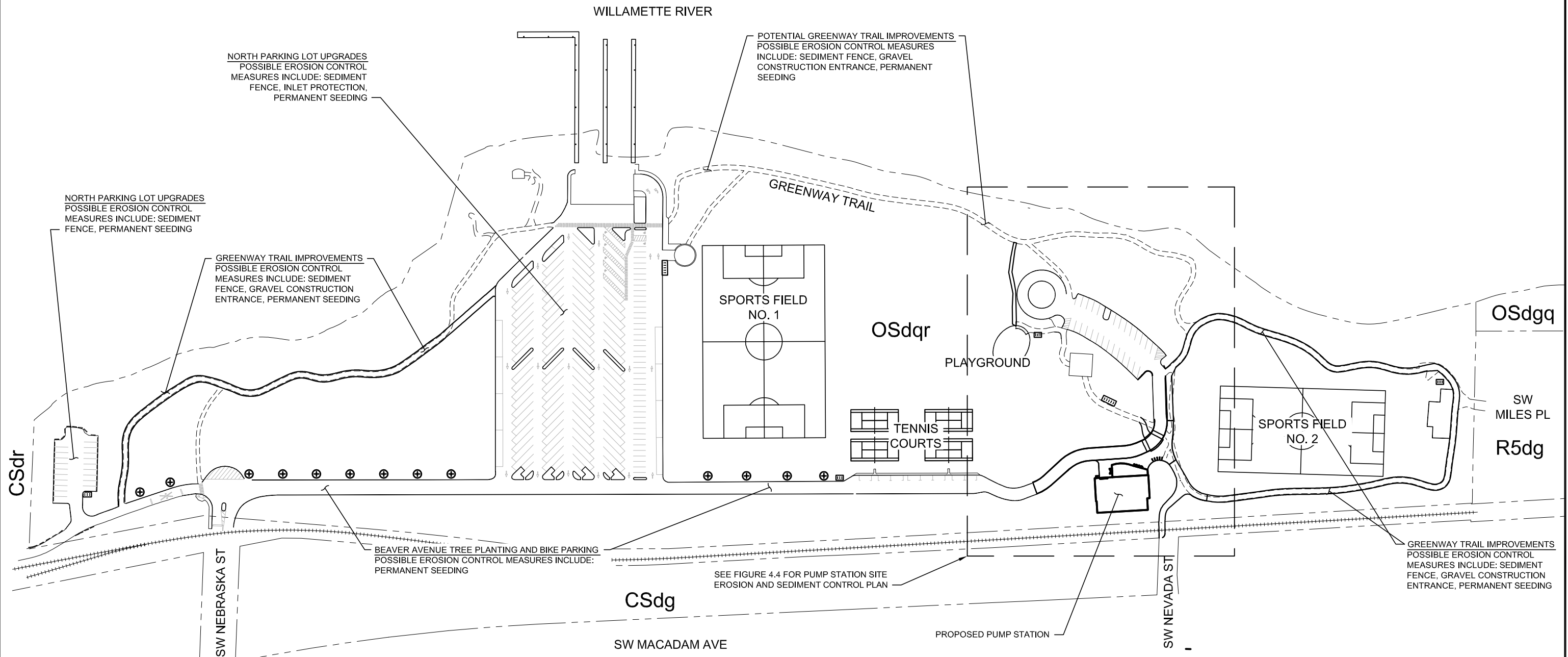
Proposed Fulton Pump Station Replacement Land Use Review

Construction Management Plan - Tree Removal and Protection Plan



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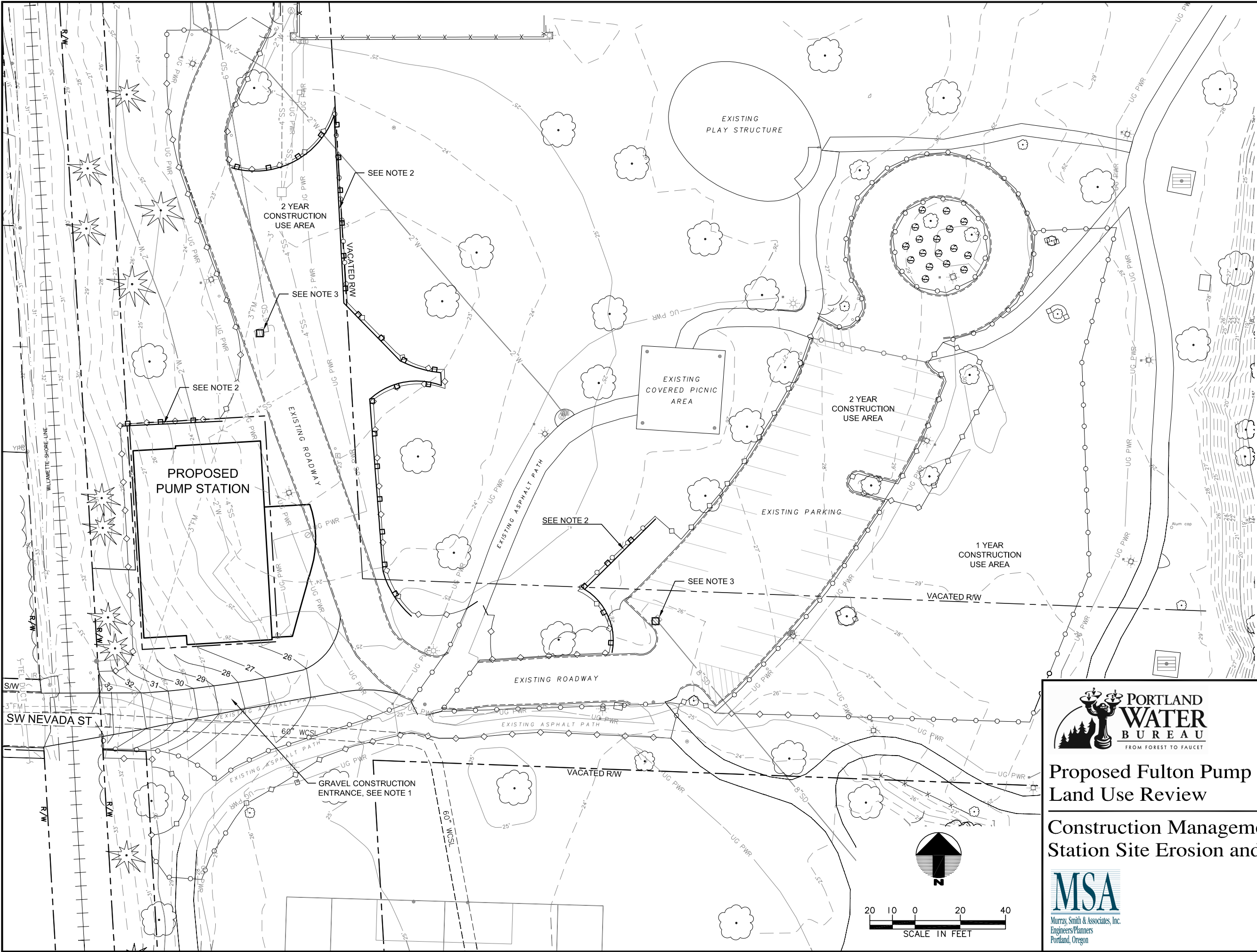
Proposed Fulton Pump Station Replacement Land Use Review

Construction Management Plan - Overall Site Erosion and Sediment Control



Figure 4.3

G:\PDX_Projects\10\1173\CAD\Figures\LUR\10-1173-500-Figure 4.4.dwg 4.4 7/31/2012 4:16 PM JHF 18:1s (LMS Tech)



LEGEND

- SEDIMENT FENCE
- INLET PROTECTION

NOTES:

1. GRAVEL CONSTRUCTION ENTRANCE, CRUSHED ROCK SURFACING AS REQUIRED PER EROSION AND SEDIMENT CONTROL DETAIL 1 ON FIGURE 4.5.
2. SEDIMENT FENCE TO BE INSTALLED ON ALL DOWNSTREAM AREAS OF SITE, INSTALL PER EROSION AND SEDIMENT CONTROL DETAIL 2 ON FIGURE 4.5.
3. PROVIDE INLET PROTECTION FOR ALL CATCH BASINS AS REQUIRED PER EROSION AND SEDIMENT CONTROL DETAIL 8 ON FIGURE 4.5.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHOWN ON FIGURE 4.5 TO BE INSTALLED AS REQUIRED BY CONSTRUCTION STORMWATER PERMIT (TO BE OBTAINED PRIOR TO CONSTRUCTION)

Figure 4.4

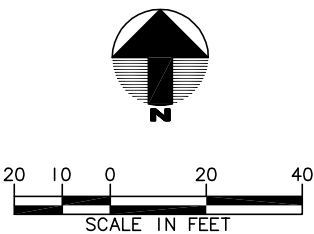


**Proposed Fulton Pump Station Replacement
Land Use Review**

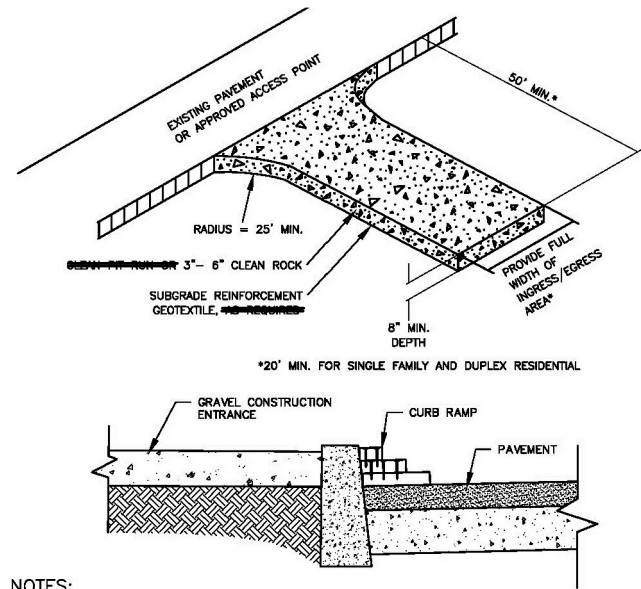
**Construction Management Plan - Pump
Station Site Erosion and Sediment Control**



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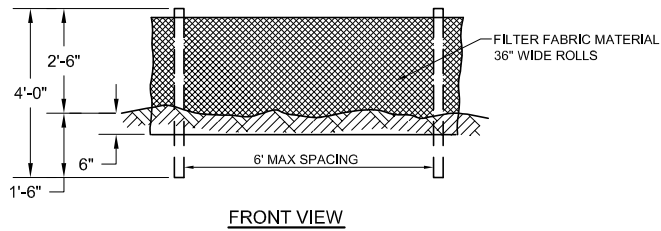
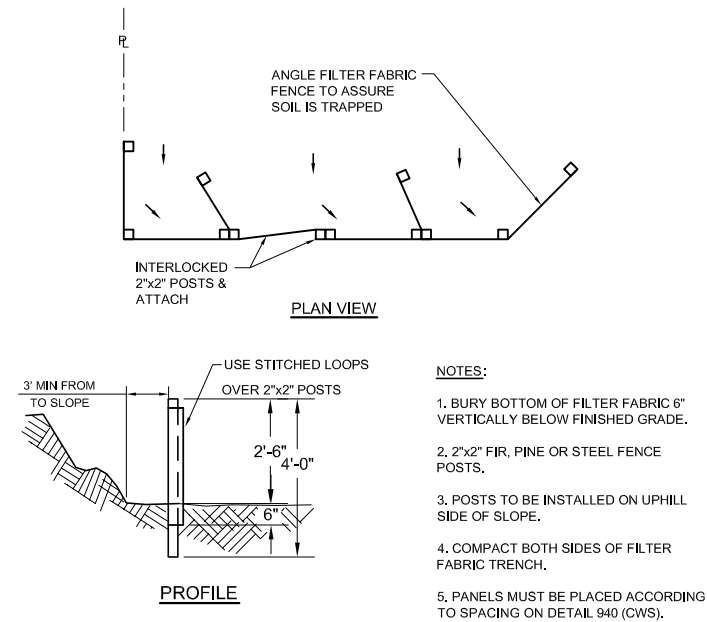
G:\PDX_Projects\10\1173\CAD\Figures\LUR\10-1173-500-Figure 4.5.dwg 4.5 7/31/2012 4:16 PM JHF 18:1s (LMS Tech)



- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
 4. WHERE RUNOFF CONTAINING SEDIMENT LOADED WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
 5. DIMENSIONS:
SINGLE FAMILY
22'-1\"/>

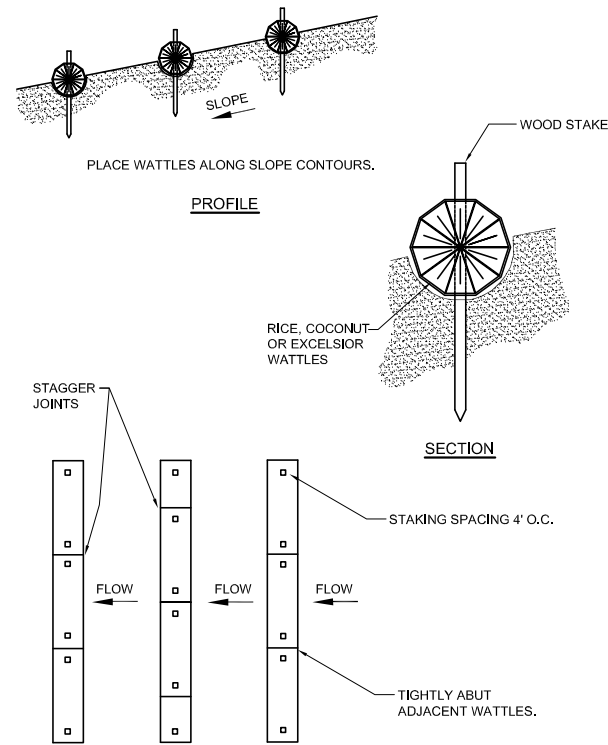
CONSTRUCTION ENTRANCE DETAIL
SCALE: NTS

1
-



SEDIMENT FENCE DETAIL
SCALE: NTS

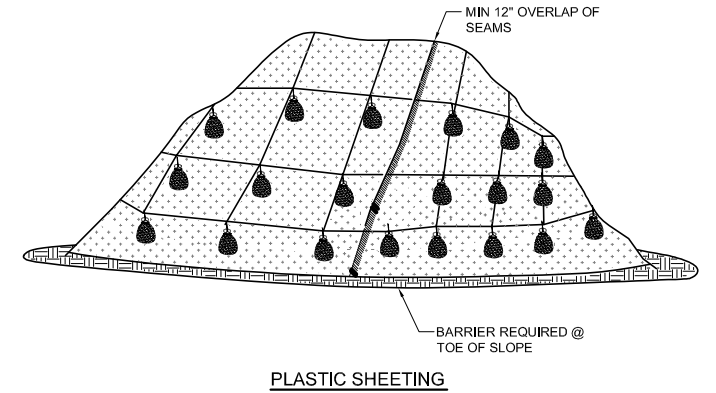
2
-



- NOTES:
1. STAKING SPECIFICATIONS:
A. 1"x2" WOODEN STAKED.
B. ADDITIONAL STAKES MAY BE INSTALLED ON DOWNHILL SIDE OF WATTLES, ON STEEP SLOPE OR HIGHLY EROSION SOILS.
 2. SPACE WATTLES EVERY 25-FEET ALONG THE SLOPE

WATTLES DETAIL
SCALE: NTS

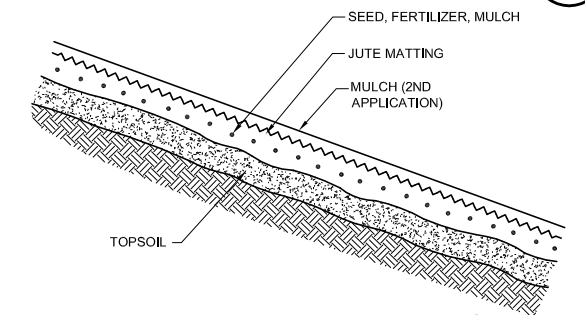
3
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- NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
 2. BARRIER REQUIRED @ TOE OF STOCK PILE.
 3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

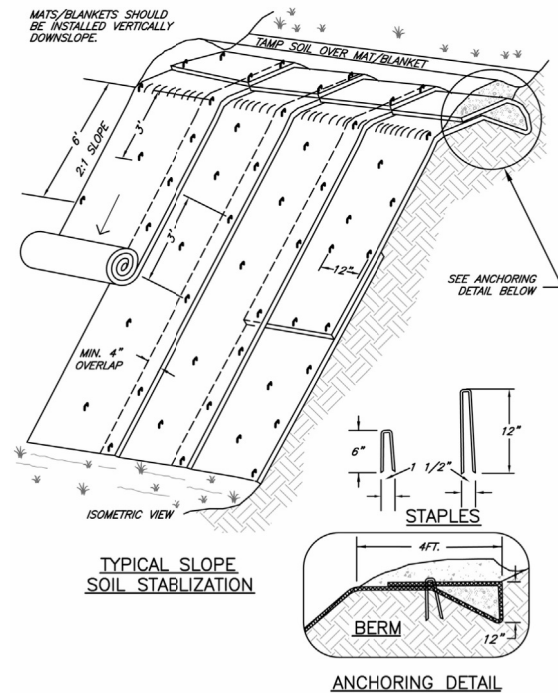
PLASTIC SHEETING DETAIL
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4
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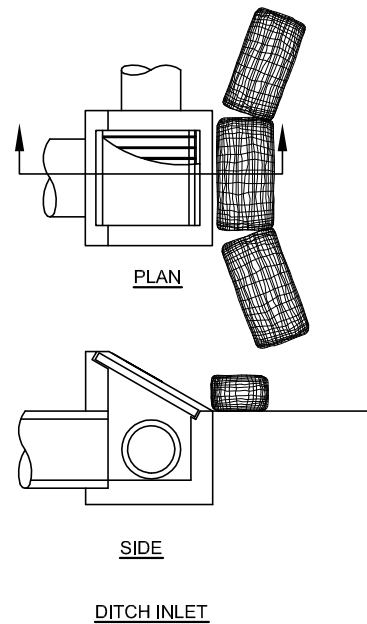
JUTE MATTING
SCALE: NTS

5
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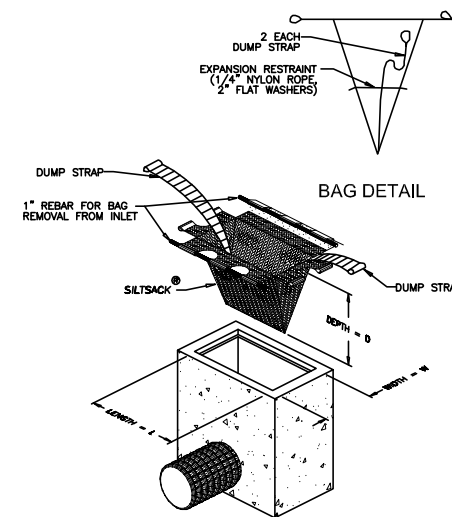
EROSION BLANKETS
SCALE: NTS

6
-



BIOBAGS
SCALE: NTS

7
-



Regular Flow Only
Do not use High Flow Insert Bags.

INLET PROTECTION
SCALE: NTS

8
-



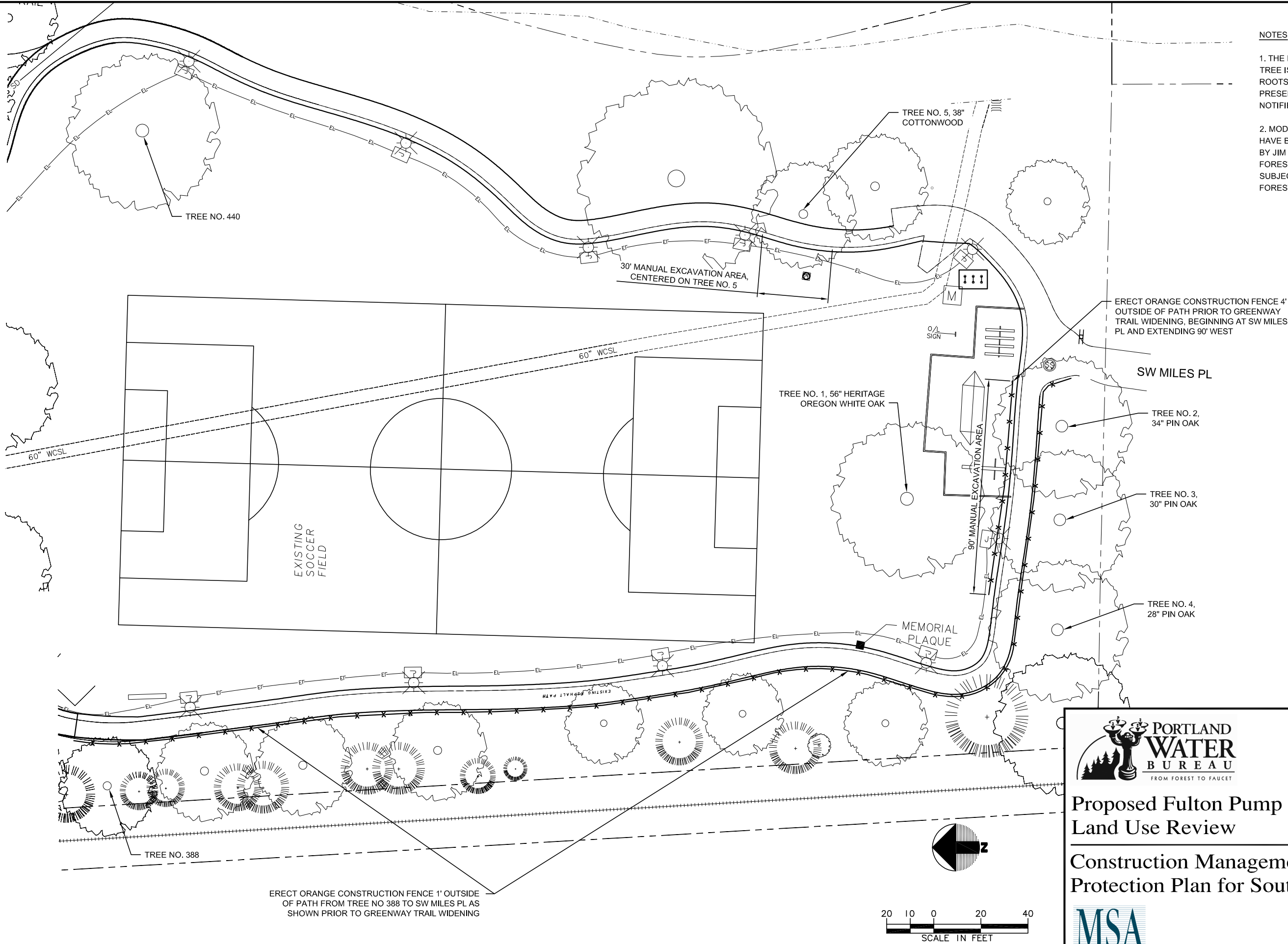
Proposed Fulton Pump Station Replacement Land Use Review

Construction Management Plan - Erosion and Sediment Control Details



Figure 4.5

SEE FIGURE 4.2 FOR TREE PROTECTION MEASURES TO NORTH



NOTES:

1. THE ROOT PROTECTION ZONE (RPZ) FOR EACH TREE IS 1-FT RADIUS PER 1-IN CALIPER. ALL ROOTS 2" IN DIAMETER OR LARGER ARE TO BE PRESERVED, AND URBAN FORESTRY IS TO BE NOTIFIED FOR A ROOT INSPECTION.

2. MODIFIED ROOT PROTECTION ZONES (MRPZS) HAVE BEEN COORDINATED WITH AND APPROVED BY JIM FIELD, CITY OF PORTLAND URBAN FORESTRY. TREE PROTECTION FENCING IS SUBJECT TO CHANGES IN THE FIELD BY URBAN FORESTRY.



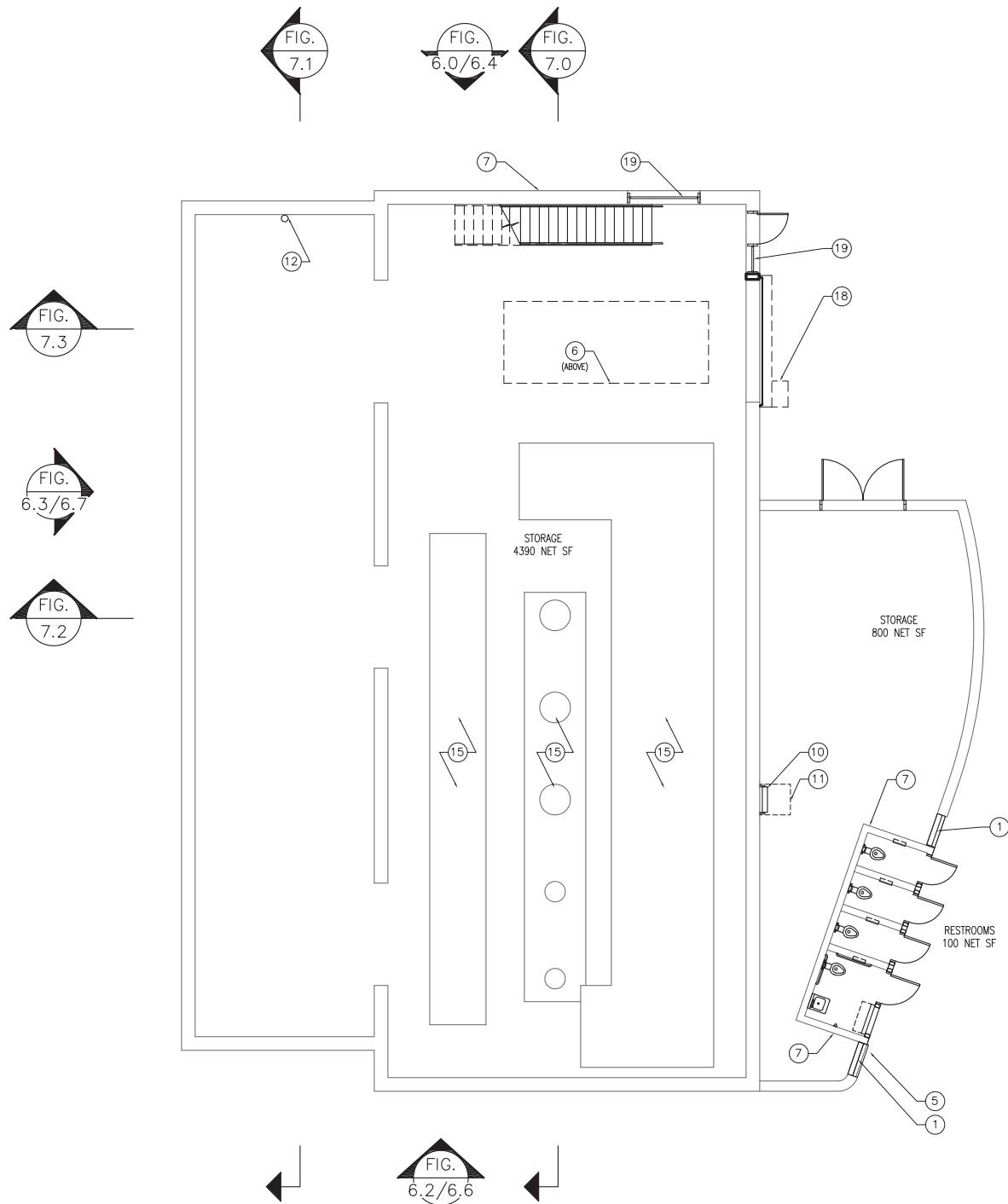
Proposed Fulton Pump Station Replacement Land Use Review

Construction Management Plan - Tree Protection Plan for South Trail Widening

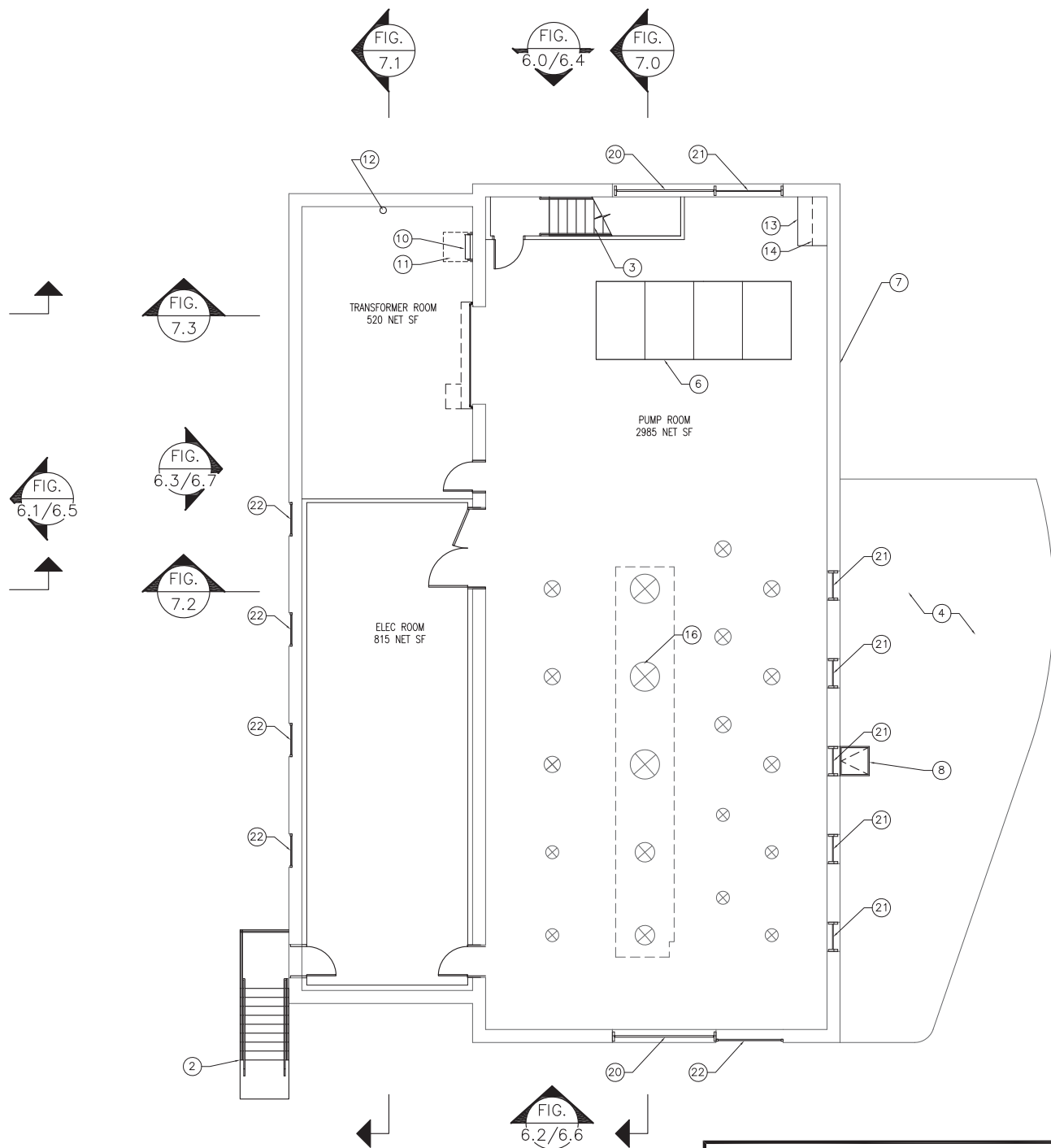


Figure 4.6

P: \201031.00 Fulton Pump Station\Drawings\04 CADD\current\1031-DWG for LUR.dwg Figure 5.0 - 5.1 - Floor Plans 7/13/2012 2:41 PM AARMSTRONG 18.0s (LMS Tech)



GROUND FLOOR PLAN (FIG. 5.0)



MAIN FLOOR PLAN (FIG. 5.1)



KEYNOTES:

- 1 DISPLAY CASE
- 2 CONCRETE STAIR
- 3 STEEL STAIR - BIDDER DESIGN
- 4 ROOF BELOW
- 5 EXTERIOR HAND WASHING SPIGOT AND TROUGH
- 6 LOADING HATCH IN FLOOR
- 7 CONCRETE WALL, TYPICAL
- 8 3' X 3' ROOF HATCH
- 9 NOT USED
- 10 ROOF ACCESS LADDER - ALIGN CENTER LINE OF LADDER WITH CENTERLINE OF ROOF HATCH ABOVE
- 11 ROOF HATCH ABOVE
- 12 INTERIOR DOWNSPOUT
- 13 3' X 5' WORK TABLE
- 14 18" DEEP SHELVING ABOVE
- 15 PIPE VAULT
- 16 SLAB BLOCKOUT FOR PIPING, TYPICAL
- 17 NOT USED
- 18 OVERHEAD DOOR WITH OPERATOR ENCLOSURE ABOVE
- 19 FLOOD LOUVER
- 20 HVAC LOUVER
- 21 VIEW WINDOW
- 22 SPANDREL GLAZING



Proposed Fulton Pump Station Replacement
Land Use Review

Floor Plans

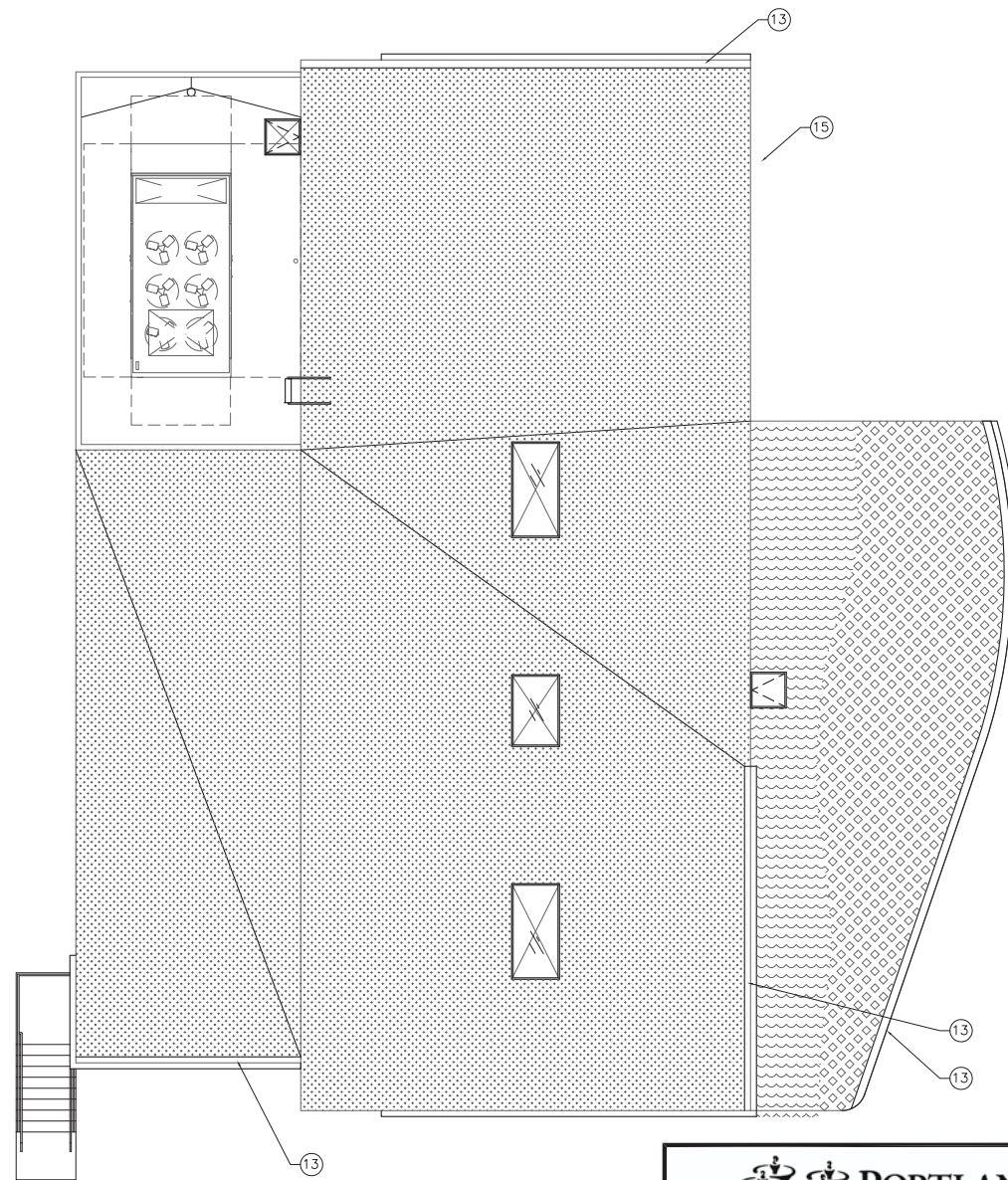
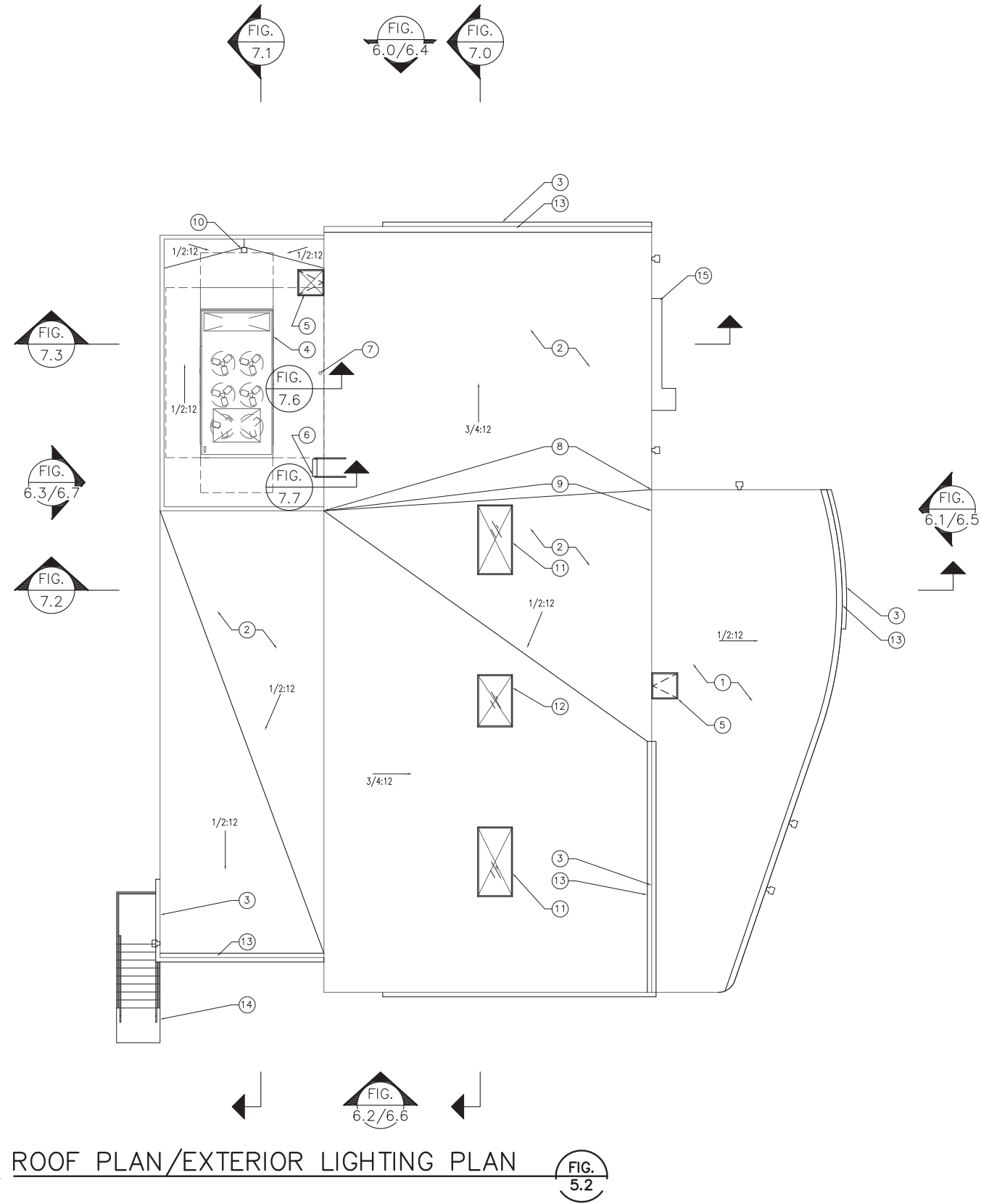
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Figures 5.0-5.1

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P:\201031.00 Fulton Pump Station\Drawings\04 CADD\current\1031-DWG for LUR.dwg Figure 5.2 - 5.3 - Roof Plan 7/13/2012 2:41 PM AARVSTRONG 18.0s (LMS Tech)



KEYNOTES:

- 1 ECOROOF 1 - INTENSIVE
- 2 ECOROOF 2 - EXTENSIVE
- 3 GUTTER BELOW
- 4 HVAC UNIT. SEE MECH PLANS FOR MORE INFO
- 5 ROOF HATCH
- 6 ROOF ACCESS LADDER
- 7 COMMUNICATIONS ANTENNA. SEE FIGURE 7.6
- 8 HIGH POINT OF CONCRETE
- 9 HIGH POINT OF TAPERED ROOF SYSTEM
- 10 ROOF DRAIN
- 11 4'X8" SKYLIGHT
- 12 4'X6" SKYLIGHT
- 13 3/4 MINUS RIVER ROCK
- 14 STAIR BELOW
- 15 OVERHEAD DOOR BELOW

SYMBOL LEGEND

- ECO ROOF 2 - EXTENSIVE ECO-ROOF - 60lbs SEDUM CUTTINGS PER 1000SF SPREAD EVENLY OVER 4-6" GROWING MEDIA AND TOPPED WITH RED CINDER MULCH. NOT IRRIGATED. SEDUM MIX TO INCLUDE:
- SEDUM ALBUM "CORAL CARPET"
- SEDUM ALBUM LONICUM
- SEDUM DIVERGENS
- SEDUM OREGANUM
- SEDUM SPATHYPHYLLUM
- ECO-ROOF 1 - INTENSIVE ECO-ROOF - SEDUM CUTTINGS SPREAD EVENLY OVER 6-12" GROWING MEDIA AND TOPPED WITH RED CINDER MULCH. SEDUM MIX TO INCLUDE:
- SEDUM ALBUM "CORAL CARPET"
- SEDUM ALBUM LONICUM
- SEDUM DIVERGENS
- SEDUM OREGANUM
- SEDUM SPATHYPHYLLUM
- ECO-ROOF 1 - INTENSIVE ECO-ROOF - PLANTINGS:
- SWORD FERN
- SEDUM AUTUMN JOY
- VINE MAPLE
- EXTERIOR LIGHT FIXTURE

Figure 5.2-5.3



Proposed Fulton Pump Station Replacement Land Use Review

Roof Plans

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8 4 0 8 16
Scale in Feet



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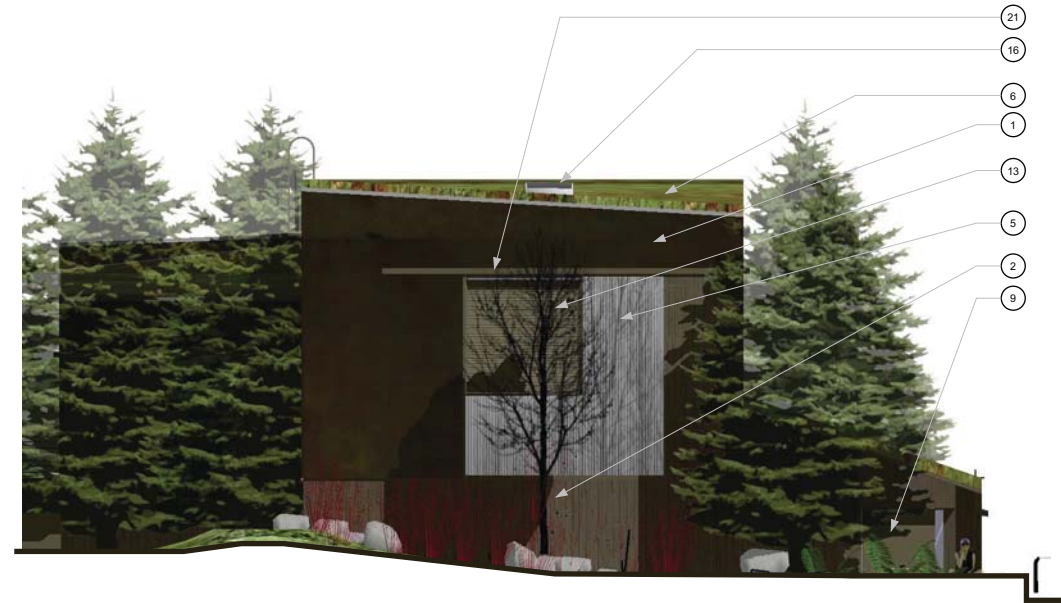
P:\201031.00 Fulton Pump Station\Drawings\04 CADD\current\sheet files\1031-A100s for LUR.dwg Figures 6.0-6.3 Elevations 4/12/2012 12:21 PM AARMSTRONG 18.0s (LMS Tech)



NORTH ELEVATION **FIG. 6.0**



EAST ELEVATION **FIG. 6.1**



SOUTH ELEVATION **FIG. 6.2**

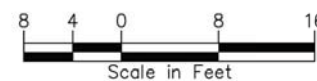


WEST ELEVATION **FIG. 6.3**

KEYNOTES

- 1 CONCRETE-STAINED, SMOOTH
- 2 CONCRETE-FORMLINER, INTEGRAL COLOR
- 3 METAL
- 4 GLAZING-VIEW WINDOW
- 5 GLAZING-SPANDREL
- 6 ECOROOF
- 7 OVERHEAD DOOR
- 8 MAN DOOR-PUMP STATION
- 9 MAN DOOR-RESTROOMS
- 10 DOUBLE DOOR-STORAGE
- 11 MECH. ZONE BEYOND
- 12 LOUVER-FLOOD
- 13 LOUVER-VENTILATION
- 14 INTERPRETIVE ELEMENT-DISPLAY
- 15 INTERPRETIVE ELEMENT-DIAGRAM
- 16 SKYLIGHT
- 17 ANTENNAE
- 18 ROOF ACCESS LADDER
- 19 NOT USED
- 20 MAINTENANCE ACCESS STAIR
- 21 GUTTER
- 22 LETTERING EMBEDDED INTO WALL OF BUILDING, "HANNAH MASON PUMP STATION"

NOTE: SEE FIGURES 6.4-6.7 FOR MORE INFORMATION



Figures 6.0-6.3

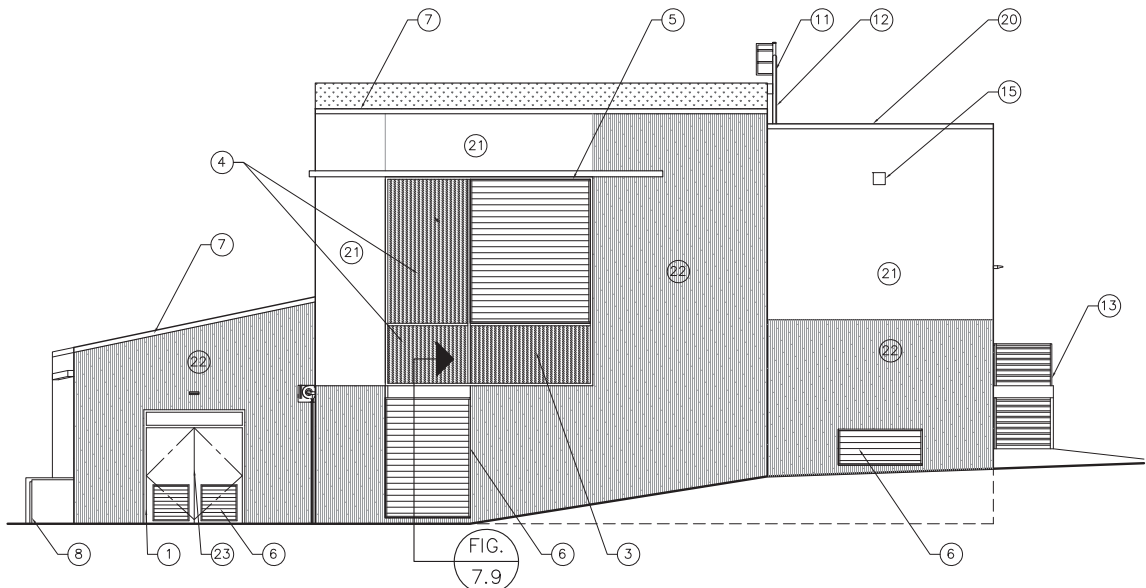
Proposed Fulton Pump Station Replacement
Land Use Review

Elevations

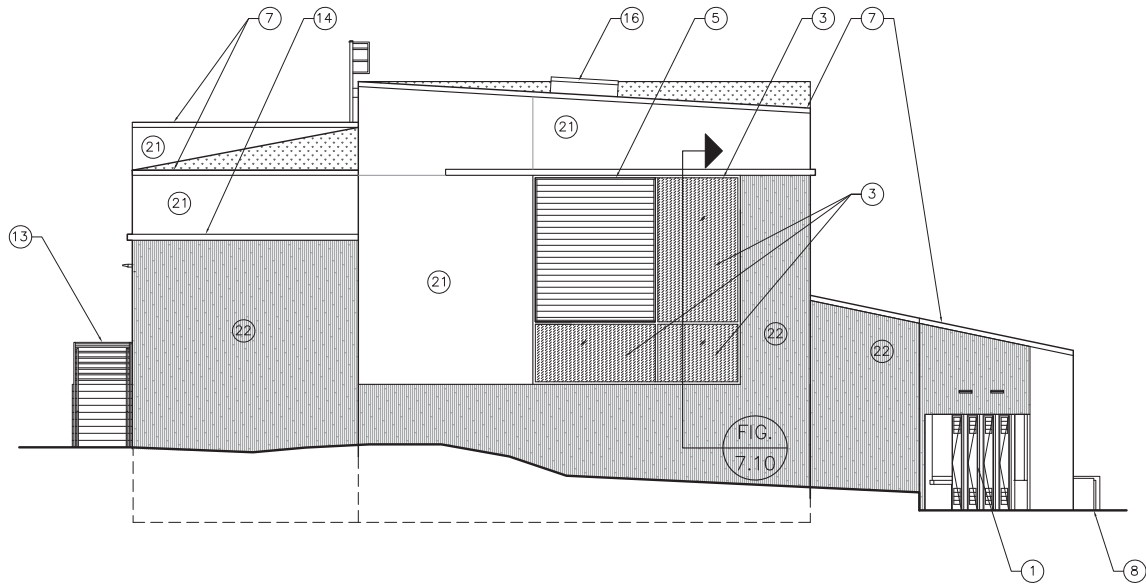


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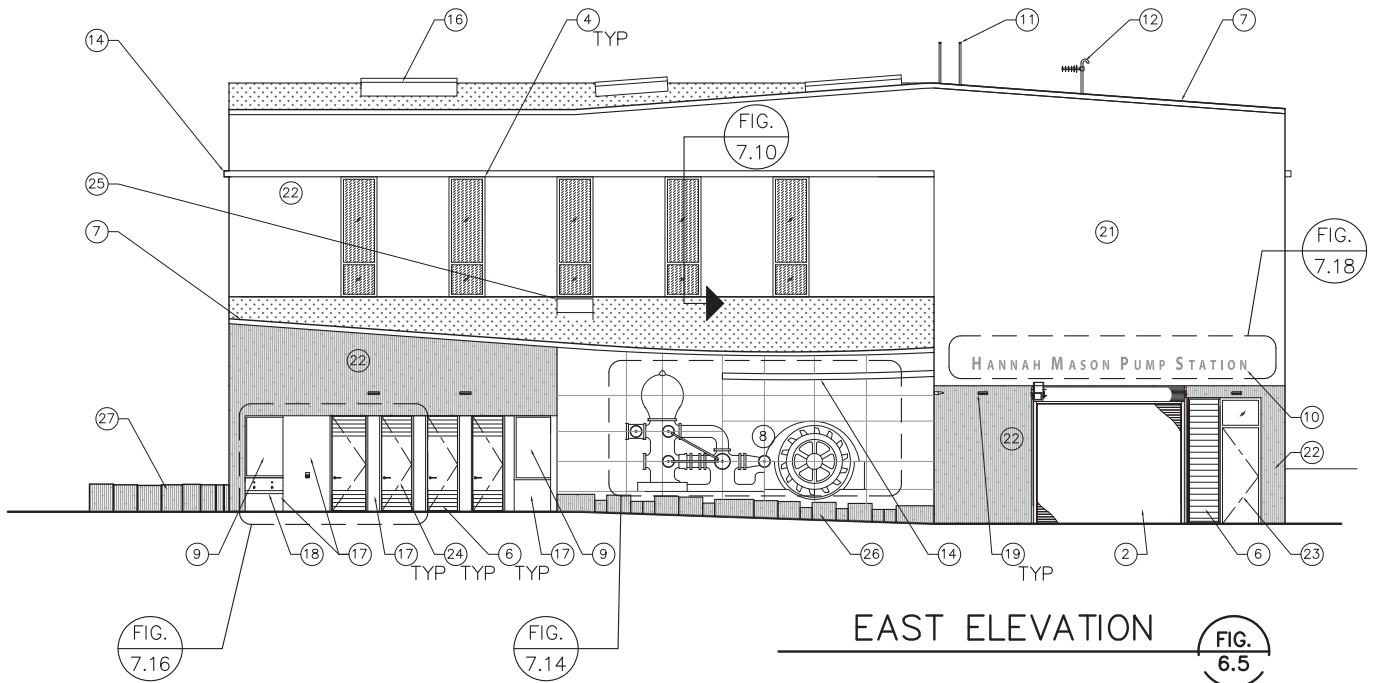
P: \201031.00 Fulton Pump Station\Drawings\04 CADD\current\1031-DWG for LUR.dwg Figure 6.4-6.7 - Elevations 7/13/2012 2:41 PM AARMSTRONG 18.0s (LMS Tech)



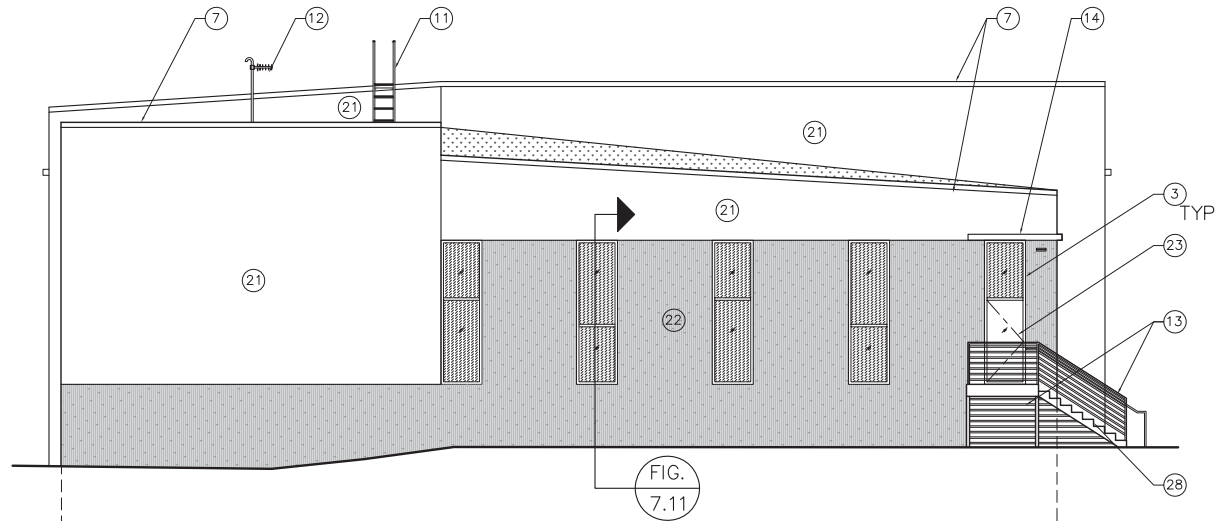
NORTH ELEVATION
FIG. 6.4



SOUTH ELEVATION
FIG. 6.6



EAST ELEVATION
FIG. 6.5



WEST ELEVATION
FIG. 6.7

KEYNOTES:

- 1 NOT USED
- 2 ROLL UP DOOR
- 3 SPANDREL GLAZING - SEE FIG. 7.15A
- 4 VIEW WINDOW - SEE FIG. 7.15A
- 5 ACOUSTIC HVAC LOUVER
- 6 FLOOD LOUVER
- 7 METAL ECO ROOF EDGE
- 8 INTERPRETIVE DIAGRAM
- 9 INTERPRETIVE DISPLAY PANEL
- 10 CONCRETE RELIEF BUILDING SIGNAGE
- 11 ROOF ACCESS LADDER, SEE FIGURE 7.7
- 12 COMMUNICATIONS ANTENNA
- 13 METAL RAILING SYSTEM
- 14 GUTTER
- 15 SCUPPER BOX
- 16 SKYLIGHT, SEE FIGURE 7.5
- 17 PREFINISHED METAL CLADDING TO MATCH RESTROOM DOORS
- 18 HANDWASHING SPOIGTS AND TROUGH, STAINLESS STEEL
- 19 EXTERIOR LIGHT FIXTURE
- 20 METAL PARAPET CAP
- 21 CONCRETE - STAINED, SMOOTH
- 22 CONCRETE - FORMLINER, INTEGRAL COLOR, SEE FIGURE 7.15B
- 23 MAN DOOR - HOLLOW METAL
- 24 MAN DOOR - STEEL PLATE
- 25 ROOF ACCESS HATCH
- 26 BASALT COLUMNS AT BUILDING, SEE FIGURE 3.7
- 27 BASALT COLUMN WALL, SEE FIGURE 3.8
- 28 PREFINISHED STEEL STAIR, DESIGN BUILD



PORTLAND
WATER
BUREAU
FROM FOREST TO FAUCET

Proposed Fulton Pump Station Replacement
Land Use Review

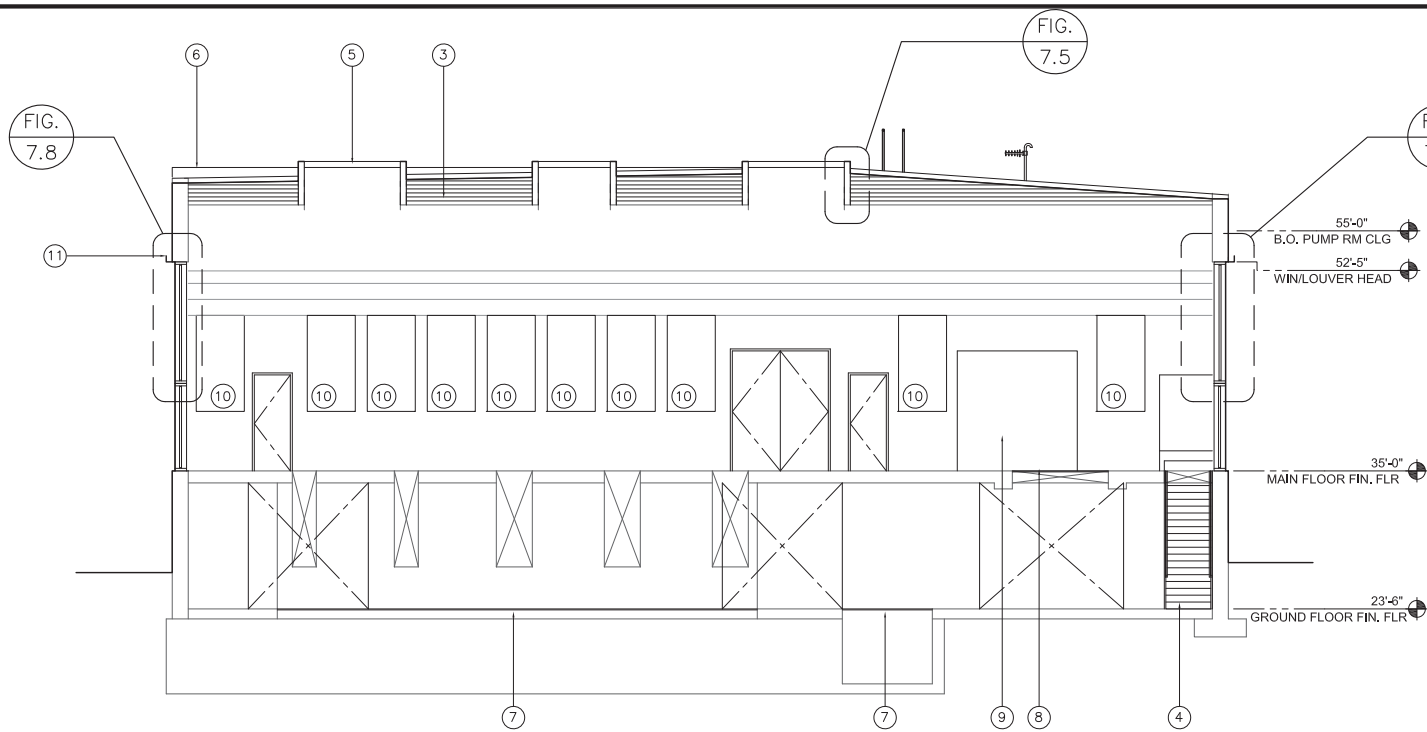
Elevations

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Figure 6.4-6.7

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P:\201031.00 Fulton Pump Station\Drawings\04 CADD\current\1031-DWG for LUR.dwg Figure 7.0-7.3 - Sections 7/13/2012 2:41 PM AARMSTRONG 18.0s (LMS Tech)

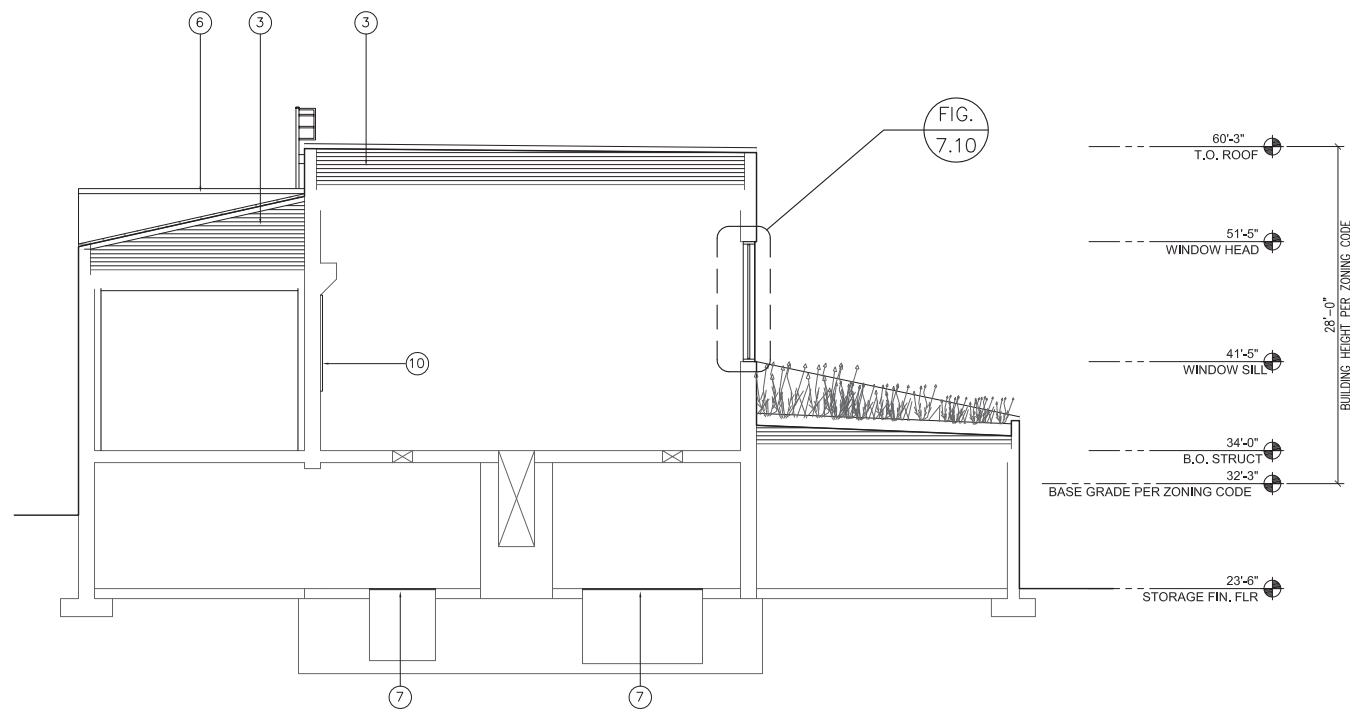


KEYNOTES:

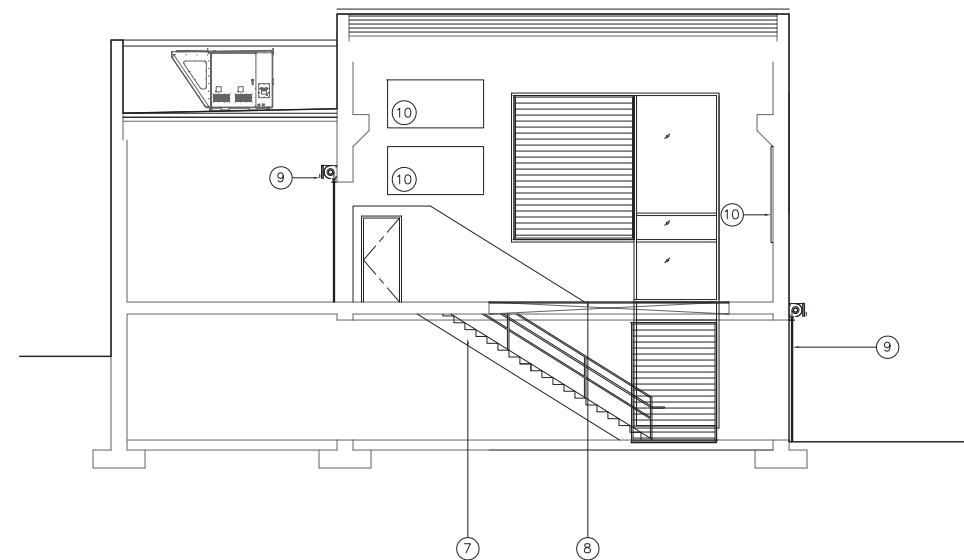
- 1 HVAC EQUIPMENT
- 2 BATT INSULATION
- 3 TAPERED ROOF SYSTEM
- 4 STEEL STAIR
- 5 SKYLIGHT
- 6 ROOF BEYOND
- 7 STEEL GRATE
- 8 LOADING HATCH
- 9 OVERHEAD COILING DOOR
- 10 4'X8' ACOUSTIC WALL PANEL
- 11 GUTTER, TYP

NORTH SOUTH SECTION THROUGH ELEC ROOM FIG. 7.1

NORTH SOUTH SECTION THROUGH PUMP ROOM FIG. 7.0



EAST WEST SECTION THROUGH ELEC ROOM FIG. 7.2



EAST WEST SECTION THROUGH TRANSFORMER ROOM FIG. 7.3



Proposed Fulton Pump Station Replacement
Land Use Review

Building Sections

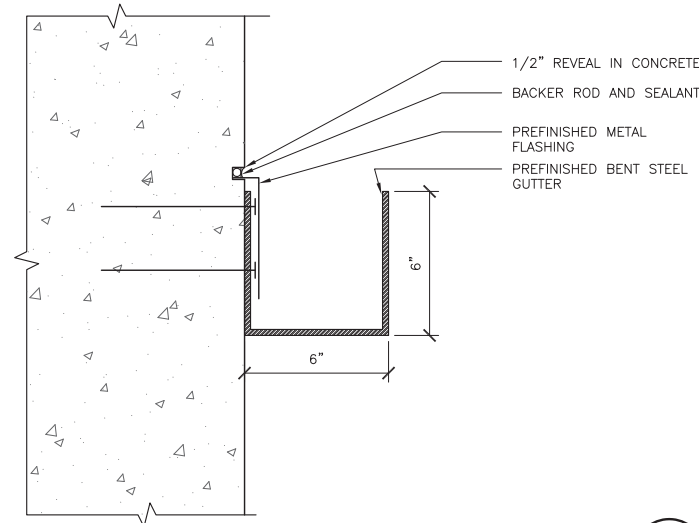
MWA
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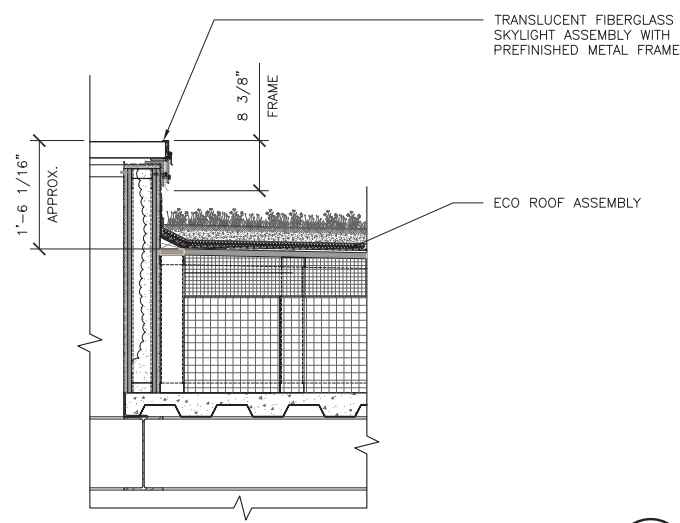
Figures 7.0-7.3

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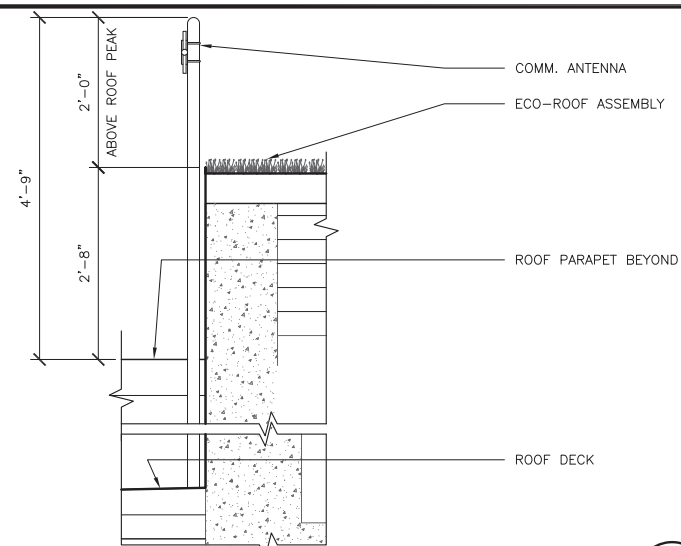
P:\201031.00 Fulton Pump Station\Drawings\04 CADD\current\1031-DWG for LUR.dwg Figure 7.4-7.13 Details 7/13/2012 2:41 PM AARMSTRONG 18.0s (LMS Tech)



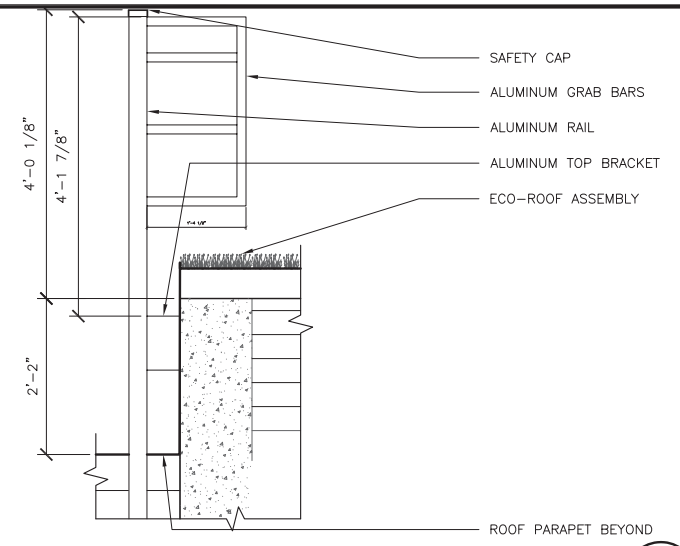
GUTTER — SECTION
SCALE: 3/4" = 1'-0" FIG. 7.4



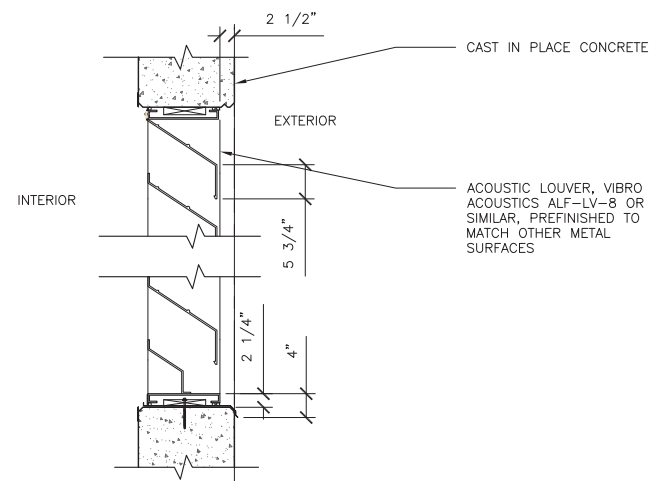
SKYLIGHT SECTION — FIG. 7.5
SCALE: 3/4" = 1'-0"



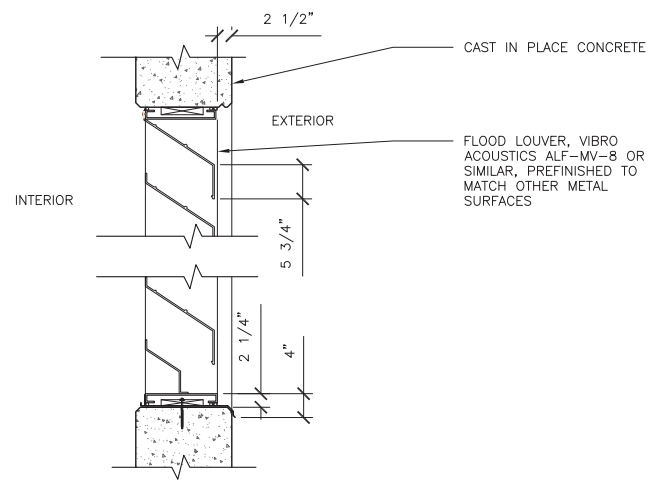
COMM. ANTENNA — SECTION — FIG. 7.6
SCALE: 3/4" = 1'-0"



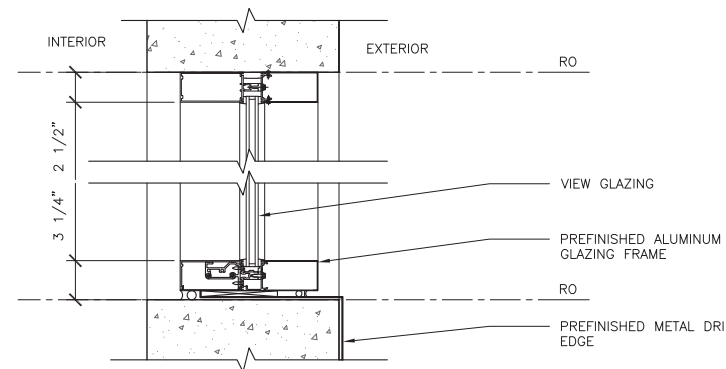
ROOF ACCESS LADDER — SECTION — FIG. 7.7
SCALE: 3/4" = 1'-0"



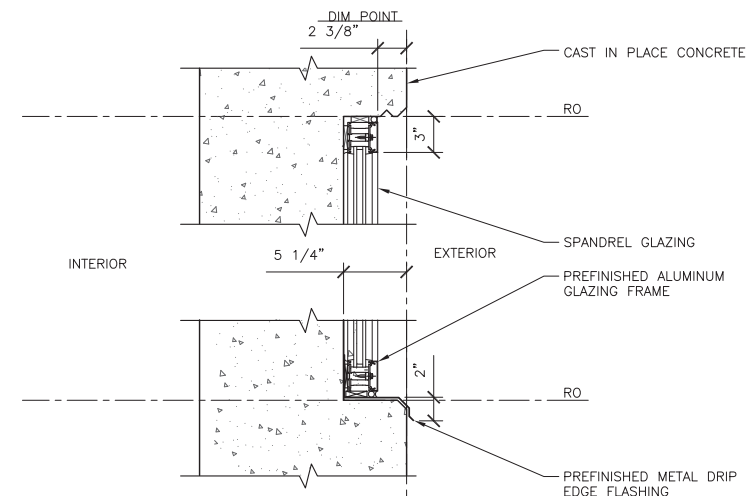
ACOUSTIC HVAC LOUVER — SECTION — FIG. 7.8
SCALE: 3/4" = 1'-0"



FLOOD LOUVER SECTION — FIG. 7.9
SCALE: 3/4" = 1'-0"



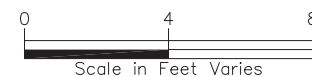
VIEW WINDOW — SECTION — FIG. 7.10
SCALE: 1-1/2" = 1'-0"



SPANDREL GLAZING — SECTION — FIG. 7.11
SCALE: 1-1/2" = 1'-0"

NOT USED — FIG. 7.12

NOT USED — FIG. 7.13
SCALE: 3/8" = 1'-0"



Figures 7.4-7.13

Proposed Fulton Pump Station Replacement Land Use Review

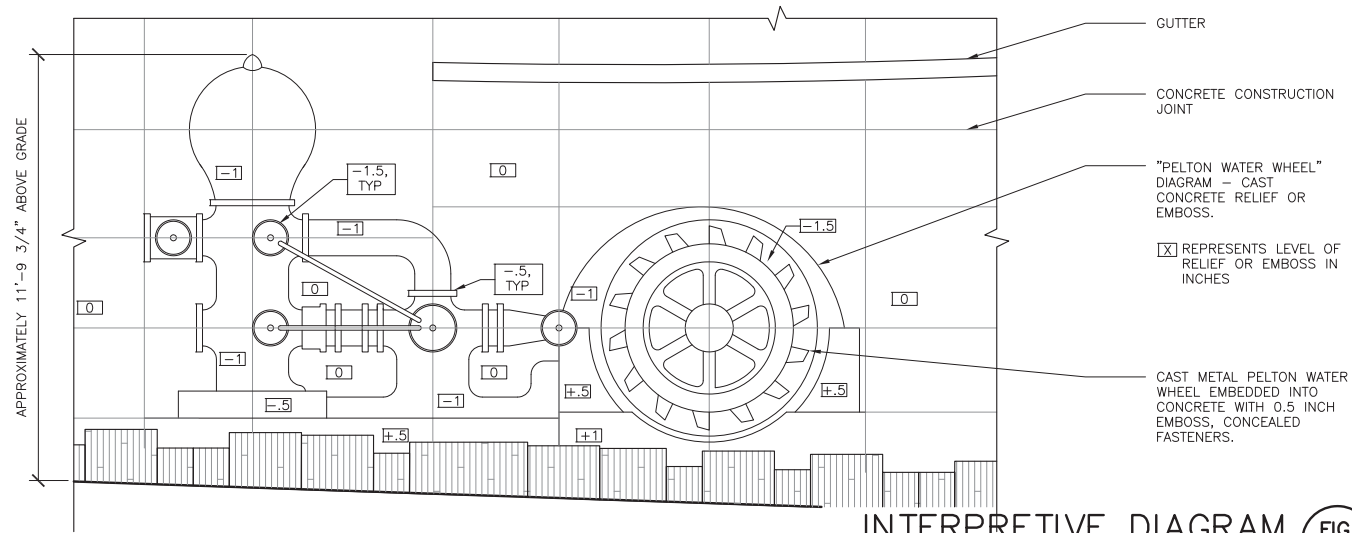
Details

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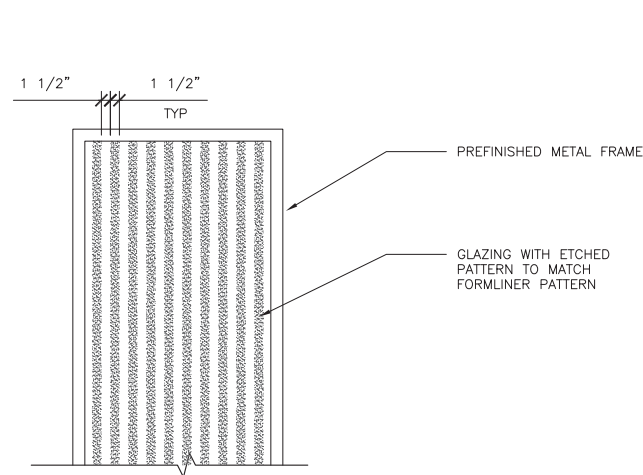


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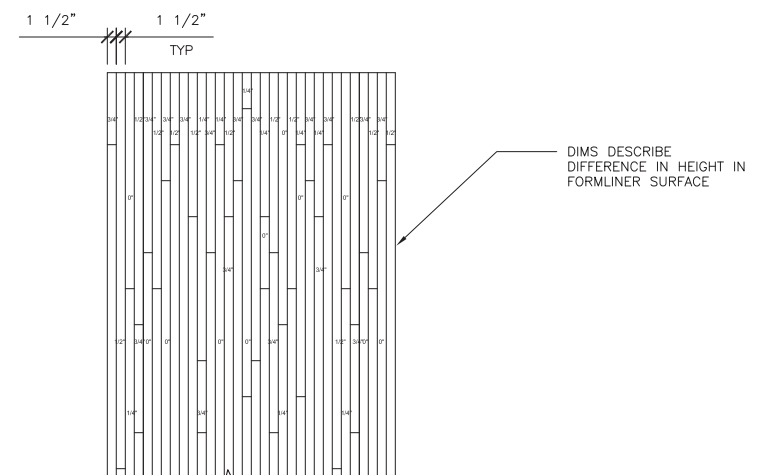
P:\201031.00 Fulton Pump Station\Drawings\04 CADD\current\1031-DWG for LUR.dwg Figure 7.14 - 7.18 Details 7/13/2012 2:41 PM AARMSTRONG 18.0s (LMS Tech)



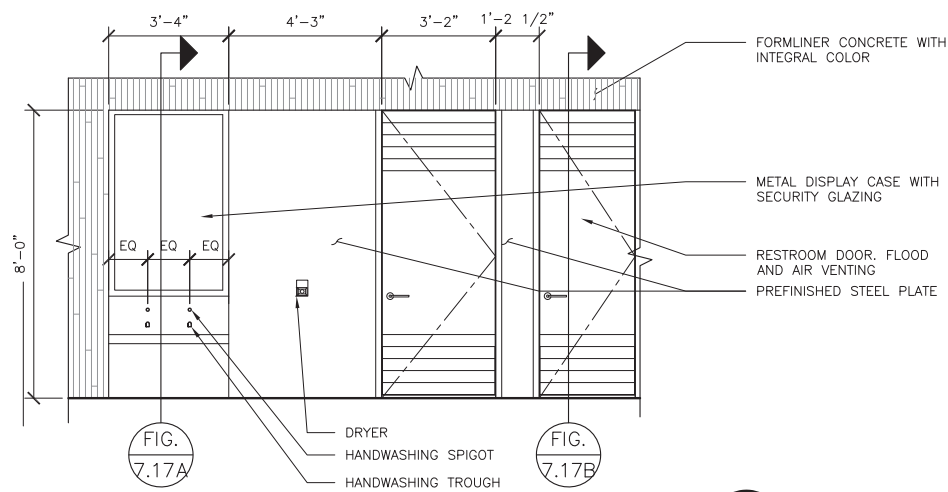
INTERPRETIVE DIAGRAM (FIG. 7.14)
SCALE: 3/8" = 1'-0"



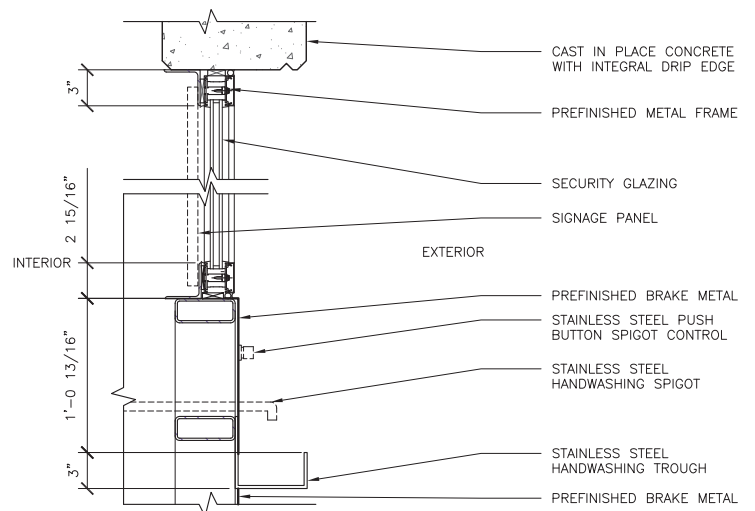
GLAZING PATTERN (FIG. 7.15A)
SCALE: 3/4" = 1'-0"



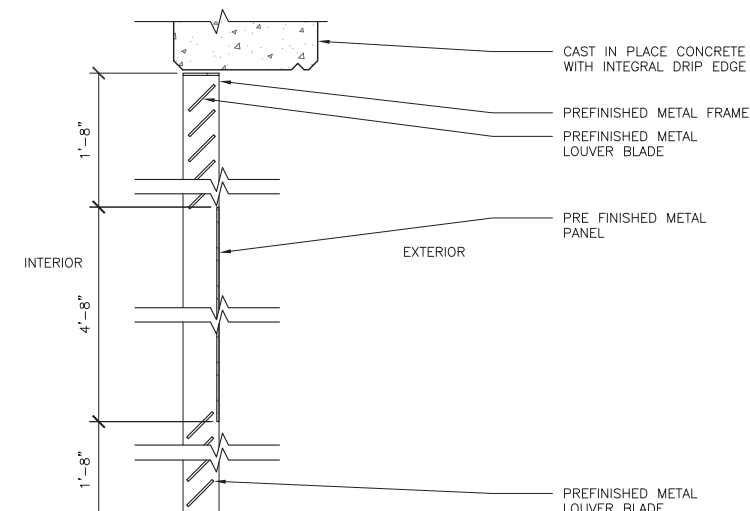
FORMLINER PATTERN (FIG. 7.15B)
SCALE: 3/4" = 1'-0"



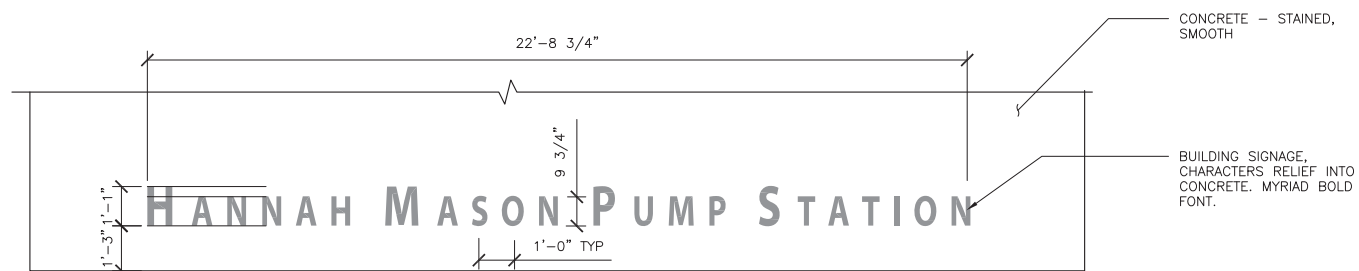
ENLARGED RESTROOM ELEVATION (FIG. 7.16)
SCALE: 3/8" = 1'-0"



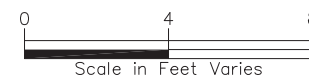
DISPLAY CASE - SECTION (FIG. 7.17A)
SCALE: 1 1/2" = 1'-0"



RESTROOM DOOR - SECTION (FIG. 7.17B)
SCALE: 1 1/2" = 1'-0"



BUILDING IDENTIFICATION SIGNAGE (FIG. 7.18)
SCALE: 3/8" = 1'-0"



Figures 7.14-7.18

Proposed Fulton Pump Station Replacement
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Figure 8.0



Proposed Fulton Pump Station Replacement
Land Use Review

View at Restrooms

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Figure 8.1



Proposed Fulton Pump Station Replacement
Land Use Review

View from North

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Figure 8.2



Proposed Fulton Pump Station Replacement
Land Use Review

View from South

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