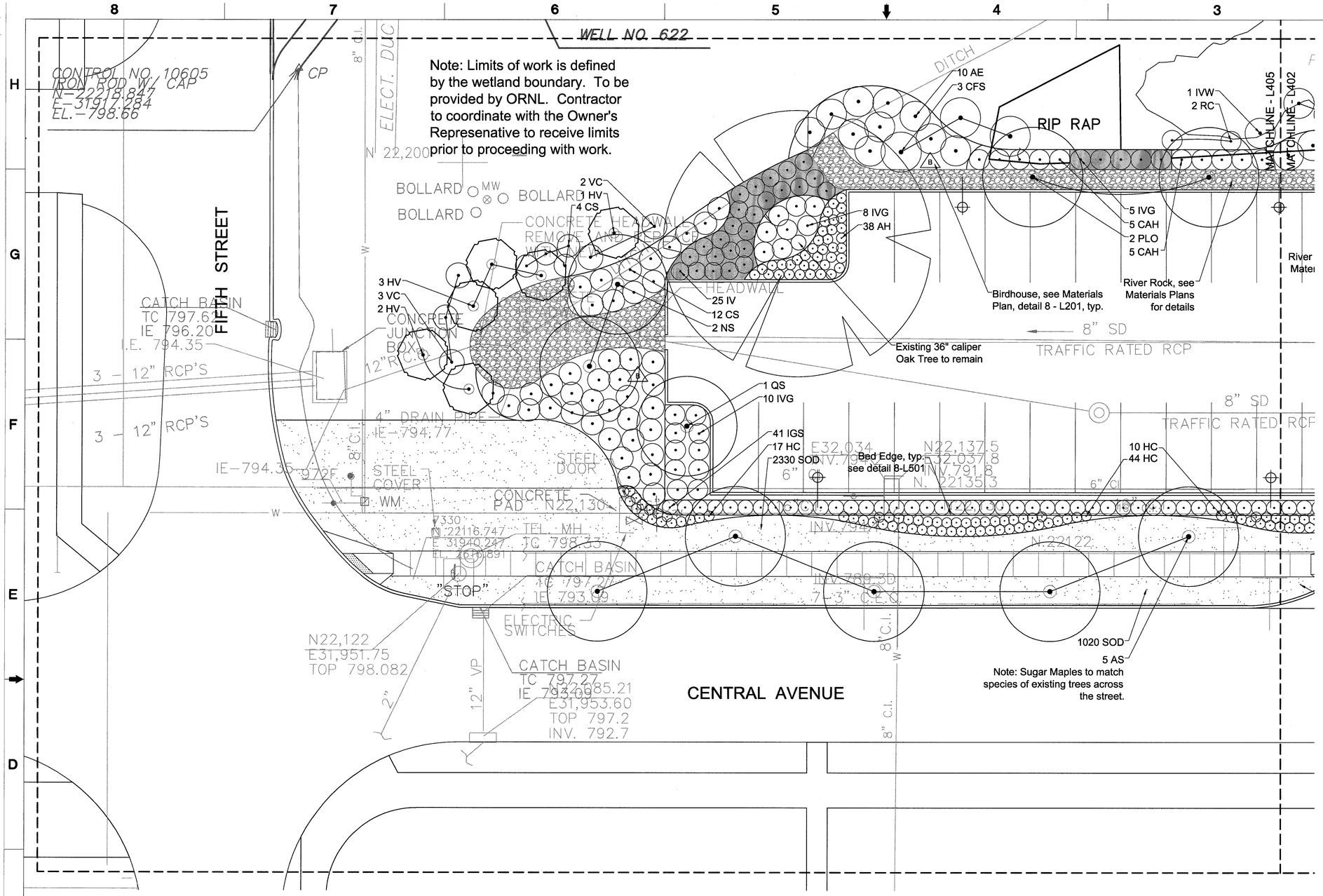
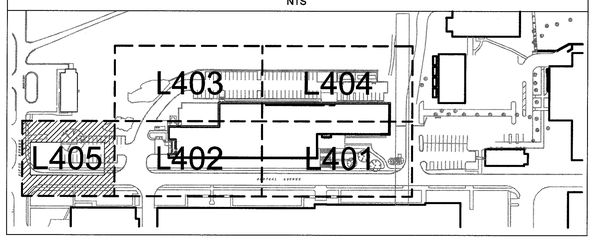


GENERAL NOTES:

1. Plant beds to join walks or walls at an angle between 90° & 60°.
2. Shade trees to be planted a minimum of 5' from sidewalks, water line, sewer line or manholes. Evergreen and ornamental trees to be planted a minimum of 3' from sidewalks, water line, sewer line or manholes.
3. Mulch rings around shade trees to be a minimum diameter of 4' and a minimum of 3' around ornamental and evergreen trees. If evergreen trees are specified as full to ground, mulch ring to extend a minimum of 12" beyond the edge of plant.
4. Plants may need to be shifted in the field, based on the existing conditions. Coordinate with the Landscape Architect prior to any changes.

Location Map
NTS



Key	Quantity	Botanical Name	Common Name	Size	Notes
SHADE TREES					
AR	2	Acer rubrum 'October Glory'	Red Maple	3" cal.	6' CT -Central leader; full & matched
AS	17	Acer saccharum	Sugar Maple	3" cal.	6' CT -Central leader; full & matched
LS	1	Liquidambar styraciflua 'Grant's Seedless'	Sweetgum	3" cal.	6' CT -Central leader; full & matched
NS	2	Nyssa sylvatica	Blackgum	3" cal.	6' CT -Central leader; full & matched
PLO	6	Plantanus occidentalis	Sycamore	3" cal.	6' CT -Central leader; full & matched
QS	7	Quercus shumardii	Shumard Oak	3" cal.	6' CT -Central leader; full & matched
UAP	2	Ulmus americana 'Princeton'	Princeton Elm	3" cal.	6' CT -Central leader; full & matched
EVERGREEN TREES					
TPG	6	Thuja plicata 'Green Giant'	Green Giant Arborvitae	9' hgt. min.	4' CT, MT, matched, full to ground
ORNAMENTAL TREES					
CFC	3	Cornus florida 'Cherokee Princess'	Cherokee Princess Dogwood	2" cal.	Specimen
CVT	4	Chionanthus virginicus	Fringe Tree	3" cal.	Matched, full & well branched
HV	10	Hamamelis virginiana	Witchhazel	2" cal.	Matched, full & well branched
MV	11	Magnolia virginiana 'Australis'	Sweetbay Magnolia	3" cal.	Multi-trunk, matched, full & well branched
SHRUBS					
ACA	84	Azalea x 'Robleg' PP# 15227	Encore Azalea- Autumn Angel	3 gal - 18" min. hgt.	3' o.c., full & dense
AE	14	Aesculus parviflora	Bottlebrush Buckeye	3 gal - 24" min. hgt.	6' o.c., full & dense
CA	28	Callicarpa americana	American Beauty Berry	3 gal - 24" min. hgt.	3' o.c., full & dense
CAH	10	Clethera alnifolia 'Hummingbird'	Hummingbird Clethera	3 gal - 24" min. hgt.	4' o.c., full & dense
CFS	6	Calycanthus floridus	Sweetshrub	3 gal - 24" min. hgt.	8' o.c., full & dense
CS	25	Cornus sericea	Redtwig Dogwood	3 gal - 18" min. hgt.	4.5' o.c., full & dense
HC	281	Hypericum calycinum	Aarons Beard St. Johnswort	3 gal - 12" min. hgt.	2' o.c., full & dense
HPH	114	Hypericum frondosum 'Hidcote'	St. Johnswort	3 gal - 24" min. hgt.	4' o.c., full & dense
IGS	110	Ilex glabra 'Shamrock'	Shamrock Inkberry	3 gal - 18" min. hgt.	3' o.c., full & dense
IV	49	Ilex verticillata 'Nana'	Winterberry	3 gal - 24" min. hgt.	3.5' o.c., full & dense
IVW	5	Ilex verticillata 'Winter Red'	Winter Red Winterberry	3 gal - 24" min. hgt.	6' o.c., full & dense
IVG	150	Ilex virginica 'Henry's Garnet'	Henry's Garnet Virginia Sweetspire	3 gal - 24" min. hgt.	4' o.c., full & dense
IVH	180	Ilex virginica 'Little Henry'	Virginia Sweetspire	3 gal - 24" min. hgt.	4' o.c., full & dense
RC	17	Rhododendron canescens	Wild Azalea	3 gal - 24" min. hgt.	4' o.c., full & dense
VA	7	Viburnum acerifolium	Maple-leaf Viburnum	3 gal - 24" min. hgt.	5' o.c., full & dense
VC	5	Vaccinium corymbosum	Highbush Blueberry	3 gal - 24" min. hgt.	5' o.c., full & dense

ORNAMENTAL GRASSES					
CL	171	Chasmanthium latifolium	River Oats	3 gal.	30" o.c.
MC	174	Muhlenbergia capillaris	Muhly Grass	3 gal.	30" o.c.
PVS	103	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	3 gal.	24" o.c.
SSB	92	Schizachyrium scoparium 'The Blues'	The Blues Little Bluestem	3 gal.	3' o.c.
GROUNDCOVERS & PERENNIALS					
AH	38	Amsonia hubrichtii	Blue Star	1 gal.	24" o.c.
AO	55	Aster oblongifolius	Aromatic Aster	1 gal.	18" o.c.
CCF	240	Carex comans 'Frosted Curls'	New Zealand Hair Sedge	3 gal.	30" o.c.
CP	690	Carex pensylvanica	Pennsylvania Sedge	1 gal.	18" o.c.
CV	306	Chrysogonum virginianum	Green and Gold	1 gal.	18" o.c.
DEB	238	Dryopteris erythrosora 'Brilliance'	Autumn Brilliance Fern	1 gal.	30" o.c.
HO	41	Helleborus orientalis	Lenten Rose	1 gal.	18" o.c.
HAP	650	Heuchera americana 'Plum Pudding'	Plum Pudding Heuchera	1 gal.	12" o.c.
OC	146	Osmunda cinnamomea	Cinnamon Fern	1 gal.	30" o.c.
PA	17	Polystichum acrostichoides	Christmas Fern	1 gal.	30" o.c.
PB	46	Polygonatum biflorum	Solomon Seal	1 gal.	18" o.c.
PD	127	Phlox divaricata	Woodland Phlox	1 gal.	24" o.c.
RH	50	Rudbeckia hirta	Blackeyed Susan	1 gal.	18" o.c.
SH	86	Sporobolus heterolepis	Prairie Dropseed	1 gal.	24" o.c., May sub plugs or seed
SOD	**19,285	Festuca spp.	Tall Fescue	SF	
VINES					
CR	4	Campsis radicans	Trumpet Creeper	1 gal.	as shown

* To match the species of the street trees along opposite side of Central Avenue

** Square footage of sod quantities is approximate and is an estimate of the disturbed areas. Contractor to verify quantities prior to purchase and installation.

ABBREVIATIONS:

CT - Clear Trunk	FTG - Full to Ground
BLD - Boulders	BOC - Back of curb
MT - Multi-trunk	DBH - Diameter at Breast Height

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NUMBER OF SECTION OR DETAIL
DRAWING ON WHICH SECTION OR DETAIL IS TAKEN
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN
SECTION AND DETAIL KEY

THIS DOCUMENT CONTROLLED BY
CHANGE CONTROL SYSTEM
ENGINEERING PROCEDURE

REV	DRAWING TYPE	CHANGE CONTROL SYSTEM	CHANGE DESCRIPTION NUMBER	DESCRIPTION	DSN	DATE	CHK	DATE	PE	DATE	PM	DATE	REQ	DATE	CFM	DATE	RPE	RPE NO	DATE	ST	CW	EC	EE	EM	IE	M	PD	SE	AR	FPE
0				Issued CFC (Certified for Construction) - Bid Package 3	RLB	05/29/09	SJH	05/29/09									SJH	0777	05/29/09											

REVISION OR ISSUE PURPOSE — REVISION APPROVALS — INTER-DISCIPLINE CHECK

0 8' 16' 24'

Bid Package 3
CFC MAY 29, 2009

RPE		
DSGN	RLB/SJH	05/29/2009
DRW	RLB	05/29/2009
CHKR	SJH	05/29/2009
PE		6/4/09
PM		
REQ		6/4/09
CFM		6/4/09

REV.	DATE	REVISION 0 APPROVALS	DATE
0	05/29/2009		

A/E DRAWING NUMBER
L405

Oak Ridge National Laboratory
managed for the DEPARTMENT OF ENERGY under U.S. GOVERNMENT contract DE-AC05-000R22725
UT-BATTELLE, LLC, • Oak Ridge, Tennessee

PROJECT NAME:
MODERNIZATION OF LABORATORY FACILITIES

LANDSCAPE PLAN

SITE	BLDG	FL	SH.	OF	
ORNL	4100		1	1	UNCLASSIFIED

DRAWING NUMBER C3E021570A043 REV 0

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KEY PLAN

C3E021570A043