

GREEN ROOFS FIVE-YEAR POLICY IMPLEMENTATION PLAN

(Key to acronyms follows.)

Year One (FY 2010-11)

| <i>Activity</i> | <i>Lead</i> | <i>Discussion</i> |
|---|-----------------|--|
| <u>Outreach and Education</u> | | |
| • Green Roof Web page & support materials | AE | Develop; includes items below w/ asterisk (*) |
| • Green Roof program tracking & report* | AE/WPD/PDRD | Track GR initiatives/5-Year Plan progress |
| • Staff education and coordination* | Multiple | Done for each initiative; internal web page |
| • Urban Heat Island integration* | AE | Integrate GR into program |
| • Green Roof database* | AE/PDRD | Track projects in City maintained database |
| • City Hall educational model* | AE | Develop educational flyer and tours |
| • Outreach to focus areas | GRAG | Meet with professional organizations |
| <u>Green Roof Design Considerations</u> | | |
| • Baseline Performance Criteria | GRAG/AE/ WPD | Define minimum standards for City incentivized projects; extend GRAG to accomplish task |
| <u>Existing Development Options with Green Roofs</u> | | |
| • PUD Open space & landscaping* | PDRD | Show can meet requirements with GRs |
| • PUD Green Building requirements | AEGB | Show GRs can contribute to score |
| • PUD use of GR in Tier 2* | PDRD/AE | Show GRs can be "other creative or innovative [environmental] measures" |
| • Multifamily open space* | PDRD | Show can meet requirements with GRs |
| • Subsurface parking garage* | PDRD | Show GRs over subsurface garages do not count as impervious |
| • Parkland dedication using GRs* | PARD | Show can use privately owned and maintained GRs to meet requirements |

Potential Development Incentives (require code change & Council approval)

- GR Density Bonus: PDRD Add green roofs to program
Downtown
- Building cover increase with PDRD Allow more building cover if offset
GR

Energy Impacts

- Austin Energy rebates AE Evaluate energy impacts & potential
rebate incentives

Innovative Stormwater Management

- GR hydrologic study WPD/WFC Research of detention & runoff control by
LBJ Wildflower Center (WFC)
- GR industry water quality Industry/WPD Coordinate with staff to verify hydrologic
control model for WQ credit (option exists
throughout 5-year period)

Green Roofs for New Buildings

- GR on City Buildings PWD Evaluate feasibility & funding of green
roofs for all new City buildings per
Council resolutions 20071129-045 &
20071129-046

Year Two (FY 2011-12)

Activity Lead Discussion

Outreach and Education

- Green Roof Web page & AE Continue funding allocation
support materials
- Green Roof program AE/WPD/PDRD Track GR initiatives to show progress
tracking & report
- Green Roof project AE Track projects to show progress
database*

Incentives for Green Roofs

- Austin Energy rebates AE Implement rebate if warranted, pending
evaluation results from Year 1
- North Burnet/Gateway GR PDRD Needs Council approval; follows
density bonus Downtown density bonus

Innovative Stormwater Management

- Water quality evaluation WPD Evaluate option to allow a limited number or pilot projects in DDZ Watersheds to receive partial WQ credit on condition of monitoring
- Plan for GR/LID design competition WPD/GRAG Follow City of Houston example

Planning for Green Roof for City Building

- Collect, evaluate data on buildings PWD Create inventory of existing & proposed COA buildings/roofs, select subset for further GR consideration per Council resolutions 20071129-045 & 20071129-046

Green Roofs for New Buildings

- GR on New Commercial Buildings GRAG/PDRD Evaluate feasibility of green roofs for all new buildings within the Central Business District

Year Three (FY 2012-13)***Activity******Lead******Discussion*****Outreach and Education**

- Green Roof program tracking & report* AE/WPD/PDRD Track GR initiatives to show progress
- Green Roof project database* AE Track projects to show progress

Incentives for Green Roofs

- Airport Blvd. Corridor GR density bonus PDRD Needs Council approval; follows Downtown & N. Burnet/Gateway density bonuses

Innovative Stormwater Management

- Flood detention and/or WQ sizing credit WPD Pending Wildflower Center results & possible other follow-up studies
- Hold GR/LID design competition WPD/GRAG Follow City of Houston example

Year Four (FY 2013-14)

| <i>Activity</i> | <i>Lead</i> | <i>Discussion</i> |
|---|-------------|--|
| <u>Outreach and Education</u> | | |
| • Green Roof program tracking & report* | AE/WPD/PDRD | Track GR initiatives to show progress |
| • Green Roof project database* | AE | Track projects to show progress |
| <u>Innovative Water Quality Controls</u> | | |
| • Green Roof as WQ control | WPD | Evaluate feasibility to add ECM Criteria for green roofs; pending Wildflower Center results & additional follow-up studies |
| <u>Subsidies, Grants, Low-Interest Loans</u> | | |
| • Funding Allocation | EGRSO | Develop criteria pending staff review |

Year Five (FY 2014-15)

| <i>Activity</i> | <i>Lead</i> | <i>Discussion</i> |
|---|-------------|---------------------------------------|
| <u>Outreach and Education</u> | | |
| • Green Roof program tracking & report* | AE/WPD/PDRD | Track GR initiatives to show progress |
| • Green Roof project database* | AE | Track projects to show progress |
| <u>Development Process Incentives</u> | | |
| • Fee Rebates, Expedited Process & Design Support | PDRD | Develop Incentive Program |

Key to Acronyms

| | |
|-------|--|
| AE | Austin Energy |
| COA | City of Austin |
| DDZ | Desired Development Zone (Urban & Suburban watersheds) |
| EGRSO | Economic Growth & Redevelopment Services Office |
| FY | Fiscal Year |
| GR | Green Roof |
| GRAG | Green Roof Advisory Group |
| LID | Low Impact Development (design strategy to limit environmental impact) |
| PDRD | Planning and Development Review Department |
| PWD | Public Works Department |
| WFC | Lady Bird Johnson Wildflower Center |
| WPD | Watershed Protection Department |
| WQ | Water Quality |