

CITY OF GALT
PUBLIC WORKS DEPARTMENT
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JUL 06 2007


**CITY OF GALT
PUBLIC WORKS DEPT.**

REQUIRED NOTES
(Version 7/03/07)

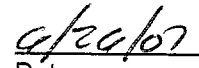
For Public Improvements

These Required Notes serve as the City of Galt public improvement standards. They supplement or supersede as applicable, improvement standards published by the County of Sacramento. They apply to all City projects and private development performed in the City of Galt.

Submitted by:

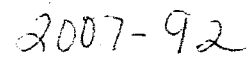


Gregg L. Halladay, PE
Director of Public Works/City Engineer

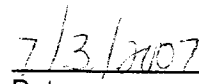


Date

Approved by Resolution:



Resolution Number



Date

EXHIBIT A

CITY OF GALT IMPROVEMENT STANDARDS AND REQUIRED NOTES

(Version 7/03/07)

SECTION 1 - INTRODUCTION:

These "Required Notes and Standard Details" will be placed on all Improvement Plans generated for approval by the City Engineer for the City of Galt. These notes serve as the City of Galt public improvements standards, and supplement or supersede as applicable, improvement standards published by the County of Sacramento. California Department of Transportation Standards will be used where specifically cited in plans and specifications.

The addendums listed at the end of these notes are City Standards, but these are not part of the Required Notes.

The Developer/Contractor shall possess City-approved plans prior to beginning construction. All applicable fees shall be paid and the Contractor or Developer shall obtain permits required before commencement of construction. All construction and materials shall be in accordance with the latest editions of the County of Sacramento Improvement Standards and the Sacramento County Construction Specifications except as modified within these notes by the City of Galt. These improvement standards shall supersede those of the other standard construction specifications where differences exist. City approval of improvement plans shall be good for one year. When approved plans are older than one year, any changes to County and/or City standards will be incorporated into actual construction and reflected on record drawings. Approved plans older than two years will be revised to reflect current standards and resubmitted with payment of new fees. All requirements of current federal and state laws will be met whether or not reflected on approved plans.

The Developer/Contractor is required to fill in the information necessary on the blank lines.

SECTION 2 - GENERAL REQUIREMENTS:

Mandatory Meetings

1. The Developer or its Contractor shall schedule a pre-construction meeting with City officials prior to commencing each subdivision or commercial project including the start of grading. If grading is permitted prior to approval of complete improvement plans, a separate pre-construction meeting for grading must be scheduled. The pre-construction meeting shall be scheduled with the city at least two working days before the planned commencement of work.

Inspections

2. Inspections performed by the City are limited to the following working hours: 7:00 AM to 3:30 PM, Monday to Friday, except on City-recognized holidays. Inspections must be scheduled with the City Inspector at least 48 hours in advance, phone (209) 366-7260. After hours, holiday, or weekend work also shall require City inspections. Approval of after hours work shall be based upon availability of City staff to inspect the work, and shall not be permitted unless approved by the City Engineer or representative. Requests for inspections after hours shall be made at least 72 hours in advance of such work. The Developer/Contractor shall reimburse the City for after-hours work that requires inspection by the City. The Developer/Contractor shall post a \$5,000 deposit with the City prior to the approval of any after hours inspections.
3. Approval of the City Inspector or other authorized representative is required on all completed work. Contractor shall have approval of the City Inspector prior to: rough grading, placing concrete, placing aggregate base, placing asphalt concrete, and back-filling trenches. Only compaction test results obtained from tests conducted by the City of Galt or its designee will be accepted. The Developer/Contractor will be billed for retests of failed materials.
4. Prior to the acceptance of sewer and storm improvements, the Developer/Contractor shall videotape all storm (including drain inlet laterals) and sanitary sewer lines and submit for City review. In the eleventh month of the one-year maintenance period, the Developer/Contractor shall again videotape all sanitary and storm drain lines and submit for City review. Standing water will not exceed 0.01 foot (or approximately 1/8") per inch of pipe diameter.

Trenching

5. The Contractor shall be responsible for determining the exact location of all existing utilities and for the protection and repair of damage to them. The Contractor shall be responsible for contacting all utilities as to the location of all underground facilities. Call "Underground Service Alert" (800) 642-2444, 48 hours before digging. Also call the City of Galt at (209) 366-7260 48 hours prior to trenching.
6. For all trench excavations 5 feet or more in depth, the Contractor shall obtain a permit from the Division of Industrial Safety (2422 Arden Way, Suite 55; phone 916-920-6123) prior to beginning any excavation. A copy of this permit shall be available at the construction site at all times. Excavations greater than 3 feet in depth left unattended shall be covered by secured steel traffic plating no matter where located. Heavy, properly secured, chain link fencing may be used in lieu of plating outside the roadway.

Construction Site Practices and Safety

7. Public safety and traffic control shall be provided in accordance with Sections 6-12 through 6-14 of the Sacramento County Standard Construction Specifications and as directed by the City Inspector. Safe vehicular and pedestrian access shall be provided at all times during construction. Developer/Contractor is responsible for providing all traffic control measures. Traffic control measures shall be consistent with latest edition of the Manual of Traffic Control Devices (MUTCD). If an existing street is to be blocked, even partially, the Developer/Contractor will notify the Public Works Department at (209) 366-7260 at least 48 hours in advance and after submittal and approval of a traffic control plan. If an existing street is to be blocked, even partially, in an emergency, then the Developer/Contractor will notify Public Works, Cosumnes CSD- Fire District at (916) 405-7100 and the Police Department at (209) 366-7000 immediately.
8. The Contractor/Developer is responsible for site conditions including public safety, dust control, and erosion and sediment control; continually. During working hours, a representative may be reached at phone number _____ . After hours and on weekends, etc., a representative may be reached at phone number _____ .
9. The Developer/Contractor is financially responsible for the maintenance or repair of offsite street surfaces where damage has been sustained because of the development's construction traffic. Existing fences adjacent to project boundary shall be protected in place or if damaged, shall be repaired or replaced at the Developer's/Contractor's expense to the satisfaction of the City Engineer.
10. Tree drip lines will be protected by construction fencing. The Developer/Contractor shall not allow stacking of construction materials, parking of equipment and vehicles, grading, trenching, cutting or filling within a tree drip line.
11. Construction noise shall not be allowed per the City of Galt Noise Ordinance from 8:00 PM to 6:00 AM (7:00 AM Sat/Sun) daily. Consult Galt Municipal Code Section 8.40.080 for specific restrictions.
12. Graffiti on any building, sign, or wall under construction, shall be removed within 48 hours of discovery. Developer/Contractor shall keep available appropriate graffiti removal materials.
13. The Developer/Contractor is responsible for dust control during all phases of construction. Water or other approved methods shall be used to control windblown dust and particles. Dust and particles shall not leave the

construction site. Dust control shall be utilized over all disturbed areas (unless suitably stabilized) regardless of whether active work is underway.

14. If any cultural resources are exposed, including but not limited to artifacts, structural features, midden deposits, and/or burial remains; construction shall cease immediately until a qualified archeologist can be consulted to evaluate the significance of the resources and make appropriate recommendations.
15. For use of City water, the Developer/Contractor shall obtain a Fire Hydrant Permit from the Public Works Department at least 48 hours before use.

SECTION 3 - IMPROVEMENT PLAN REQUIREMENTS:

16. The Developer/Contractor shall maintain an accurate record of all approved deviations from the plans before and during construction. Upon completion of work, one set of red-lined corrected plans shall be submitted to the City. Following the City's review and input, the Developer/Contractor shall submit to the City: one (1) set of large format xerox bond (blacklines); one (1) set of large format vellums; one (1) set of plan drawings AutoCad files on labeled CD disks; and two (2) copies of plan drawings in TIFF and PDF formats each on separate, labeled CDR disks. Each TIFF and PDF file shall comprise one plans sheet with sheet page number, title, and date at a 1:1 scale and a resolution of 400 dpi. Each sheet shall be marked "RECORD DRAWING", and all record drawings shall contain the design engineer's RCE stamp and signature.
17. The Developer/Contractor shall provide, in an approved format, a GIS that shall contain comprehensive attribute data for all utilities to be transferred to the City. These items shall include all water distribution, stormwater / wastewater collection systems, and streetlight systems features associated with the subject Development. Details of this requirement are provided in ADDENDUM 2, entitled: "City of Galt Utilities Attributes Template" and the latest and most recent version of ADDENDUM 2 shall apply.
18. Grid coordinate datum for GIS and all maps and exhibits shall be submitted in California State Plane, Zone II, North American Horizontal Datum of 1983 (NAD 83), and National Geodetic Vertical Datum of 1929 (NGVD 29) grid projection.
19. All improvement plans shall be submitted on 24-inch X 36-inch paper. Electronic submittals for plan review may be allowed at the discretion of the City Engineer and shall be in DWF or PDF file formats.
20. Signature Block for improvement plans shall be per City of Galt requirements.
21. If required by the City Engineer, the Erosion and Sediment Control plans may be multiple sheets identifying controls and best management practices (BMP)

consistent with the applicable phase/stage of development, e.g. rough grading, prior to paving, after paving but prior to permanent stabilization.

22. Post-Construction Stormwater Quality Plan as required by the Stormwater Quality Design Manual for Sacramento and South Placer Regions may be required to be part of the improvement plans at the direction of the City Engineer.

SECTION 4 - STREETS:

23. All signs, markers and striping shall be furnished and installed by the Developer, at the Developer's expense, whether or not shown on the plans, as required by the City Engineer. Thermoplastic marking material is required for application on 60-foot wide and larger streets.
24. Sacramento County STD DWG 4-31 and 4-32 is modified as follows: remove "required only for pavement between three and five years old". Grinding shall always be required regardless of the age of the pavement.
25. The minimum design width for public streets in the City of Galt shall be 50-feet.
26. City of Galt has established recommended design speeds per street type different from Sacramento County standards and is available from the City upon request.
27. Street name signs shall be double-sided white lettering on green background in accordance with Detail 4-33A and generally placed in accordance with Detail 4-37A. Two replacement sets of street name signs are required. Developer/Contractor shall submit proposed street name signage including abbreviations for review prior to ordering. The posts for all traffic and street name signs shall be metal conforming to Caltrans specifications 56-2.02A. Telspar breakaway posts will be used on median signs. Street name signs shall be attached with an aluminum crosspiece and U-channel cap on a steel post or using an aluminum cantilevered bracket on street light poles per detail 4-33A. Directional and street name signs will not be placed on the same posts as regulatory signs.
28. Existing A/C surface shall be cut to a neat straight line parallel with the centerline and the exposed edge shall be tacked with emulsion prior to paving. The exposed base material shall be graded, recompacted and resealed prior to paving. Contractor shall maintain a continuous pour through grade breaks on curb, gutter and sidewalk sections and shall lay asphalt continuously through grade breaks. A slurry seal may be required on finished and adjoining asphalt paving the entire width of the roadway at the City Engineer's discretion. All curb, gutter, driveway, and curb ramp replacements shall require replacement of adjacent asphalt to a minimum 2 feet width. If the improvement plans indicate asphalt overlay of existing pavement, then

Owen Corning Trumball Trupave engineered pavement mat or approved equal shall be placed and installed consistent with manufacturer's specifications

29. All utility crossings shall be constructed before preparation of subgrade and placement of pavement. Pavement cuts will not be allowed once the street pavement has been laid. Prior to construction of pavement subgrade and sidewalks, submit improvement plans for utilities including: electric, telephone, cable TV, and gas for review by the City Engineer.
30. Sidewalk ramps shall be in compliance with all applicable ADA standards, both federal and California Code Title 24. Adjacent off-site ramps will be upgraded to current standards. No construction tolerances will be allowed on maximum slopes. Maximum cross slope on sidewalks and slope in every direction on ramp landings is 2%. Landings shall drain to the gutter flowline. Adjacent to the landing, along the extension of the back of curb line construct a weakened plane joint in the concrete. See Detail 4-23A.
31. Minimum ramp width is 4 feet. Retaining curbs placed behind the landings shall be a minimum height of 6-inches.
32. Sacramento Co STD DWG 4-23-B sidewalk ramp detail shall be used at intersections of arterial streets and larger.
33. Driveways at alleys and design of alleys shall be consistent with Galt City STD DWG A - 1 and A - 2.
34. Driveways in barrier curbs will have a lip at the flow line of the gutter of 1-inch. The cross-slope in the depressed portion of the driveway shall not exceed 2%.
35. Water and sewer service locations shall be marked with an "W" or "S", as appropriate, on face of curb, using Arial or other similar block letter font letters a minimum of 2.5 inches high and ¼" deep into the concrete. Place a blue reflector, one (1) foot off centerline of streets towards each fire hydrant, indicating fire hydrant locations.
36. Relocated poles for very high voltage {69KVA or greater} line power poles, which cannot feasibly be placed underground, shall be placed behind the back of the sidewalk. Storm drain manhole covers will be marked "Storm" or "Storm Sewer". Sanitary sewer manhole covers will be marked "Sanitary" or "Sanitary Sewer". Water valve covers shall be marked "Water". Survey monument covers shall be marked "Survey" or "Monument". All dry utility box covers shall be labeled with "Telephone", "Cable", "Electric", "Gas", etc.
37. The structural section for all sidewalks shall be at minimum 6-inches of concrete and 6-inches of aggregate base. All subgrade under streets and

sidewalks shall be scarified and re-compacted to 90%. All aggregate base under streets and sidewalks shall be compacted to 95%.

SECTION 5 - STREET LIGHTS:

38. In all cases, streetlight foundations and mounting shall be placed outside of the sidewalk area.
39. An inventory of streetlights by type and wattages per circuit and the specific locations of each circuit's service box will be provided to the City Engineer when lights are ready to energize. Type "A" (cobra arm) lights shall have 150 watt lamps, except that 250 watt lamps shall be used for Type A streetlights located on right-of-ways that are 108 feet or greater in width. Type "B" (upright) lights shall have 100 watt lamps.
40. A copper grounding conductor of No. 10 AWG, minimum size shall be installed in street light PVC conduits. An 8-foot deep grounding rod is required at each streetlight and each electrical service pedestal. A non-coated copper wire of #8 AWG shall be attached to the grounding rod. Service grounds must be bonded. Within each junction box, all electrical splices shall be encapsulated. These splices, which come in kits, must be "3M or equal" encapsulated splices.

SECTION 6 - SOUND BARRIERS:

41. Sound barriers will be constructed adjacent to Highway 99 and designated arterial streets in accordance with the requirements of the Galt Landscape Manual, conditions of approval, and any approved environmental documents.
42. All masonry sound walls, privacy walls, and public building exterior walls shall be protected with the anti-graffiti coating "Acryli-Master" manufactured by Graffiti Master or approved equal, and shall be applied in accordance with the manufacturer's recommendations. For public maintained masonry walls, both sides of the wall shall be coated with the anti-graffiti coating.

SECTION 7 - SANITARY SEWER:

43. Mortar and brick or mechanical device plugs (not inflatable) must be installed in the existing sanitary sewer manholes as necessary to permit flushing the new system clear of water and debris prior to acceptance.
44. All manholes shall be 48 inches in diameter unless otherwise noted. Manholes located outside of paved areas shall have rim set 0.5 feet above ground surface. Utility manholes and boxes will not be placed in sidewalks or curb ramps.
45. All connections to existing manholes shall be cored.

46. Sewer service laterals shall be connected to main with wyes and have a cleanout capped above grade behind the back of sidewalk. Add one half-length of pipe past each clean out. The cleanout shall be cut to grade and placed in a circular box labeled 'sewer' prior to final building permit inspection. If sewer cleanout box is located within a traveled way, such as a driveway, then the box shall rated to handle H-20 loading.

SECTION 8 - WATER SUPPLY:

47. Fire hydrants shall be Clow 960 (wet barrel) or approved equal with water check valves. Fire hydrant valves shall be sprayed with a rubberized base coating and valve bonnet bolts will be top grade steel. The flange at the bottom of the break away spool will be at grade and the bolts will be protected from the concrete collar by liberally greasing bolt shafts in contact with the concrete. All portions of the fire hydrant, except the break away spool, will be painted "Rustoleum, Equipment Yellow #2148", or "#3445", or approved equal. Hydrants must be installed and operational prior to the start of any combustible construction.
48. Depth of water mains shall be 3 to 5 feet measured from the gutter flow line. Initial bedding and back-fill shall be sand to 6 inches above top of pipe. Pipe sections and pipe joint deflection shall not exceed manufacturer's recommendations. City Inspector shall be present for water taps. Only City personnel shall operate valves on operational water lines. Contractor shall make service taps under the direct observation of the City Inspector.
49. All valves up to 12 inches in diameter shall be resilient seated gate valves. Gate valves shall have "two way" operation feature. All valves greater than 12 inches and above shall be butterfly valves, unless otherwise noted. All valves shall be standard left-hand open, right-hand turn to close. Where valve nut is in excess of 10-feet deep, install a valve operating nut extension per County STD DWG 8-5. Every branch or "leg" at cross and tee connections will have a valve. All valve boxes installed on transmission and distribution system valves shall be traffic rated, regardless of location. Those valve boxes located in non-pavement areas shall have a one foot wide concrete collar constructed around the box, one-inche below grade.
50. Water meter boxes and meters are required on all services except as exempted by the City Engineer. Water meters for residential facilities shall be radio frequency read. Meters for non-residential facilities shall be radio frequency read. Neptune brand meters with brass base as approved by the City Engineer will be installed. Meters will be calibrated to read in 100 cubic foot increments.
51. Sampling stations, ECLIPSE No. 88, or approved equal are required at location(s) approved by the City Engineer.

52. Meters 3" and above shall be approved compound type meters, except that dedicated irrigation only meters may be approved turbo type meters.
53. All non-metallic pipe water mains and service laterals shall have a locating wire. Locating wire shall be 10-gauge solid copper insulated wire running along the pipe's entirety and anchored with a bolt/nut at the hydrant or service box.
54. For fire department connections, use revised STD DWG 8-7.

SECTION 9 - STORM DRAINAGE:

55. The Contractor shall maintain all existing drainage facilities within the construction area until new drainage improvements are in place and functioning.
56. All manholes shall be 48 inches in diameter unless otherwise noted. Manholes located outside of paved areas shall have rim set 0.5 feet above ground surface. Utility manholes and boxes will not be placed in sidewalks or curb ramps.
57. All connections to existing manholes shall be cored.
58. Drain Inlets shall not be used as junction boxes unless approved by the City Engineer. If allowed to be used as junction boxes, then the minimum dimension of the inlet shall be increased to 36-inches in both horizontal dimensions.
59. If drain inlet lateral is PVC pipe material and less than 18-feet, then one length of pipe shall be used, i.e. no joints in the lateral length.
60. Use a "Beehive" grated manhole cover for collection of minor drainage in non-paved areas.
61. Type H inlets shall not be used for collection of drainage from roadside ditches. Only Type F or Type I inlets shall be used to collect roadside ditch drainage.
62. The Contractor shall stamp all storm drain inlets with the words "No Dumping" and "Flows to River" with a minimum of 2-inch block lettering per section ¼" deep in the curb or within two inch distance of the curb adjacent to drain inlets.
63. Storm Water Quality (SWQ) treatment and source controls shall be implemented consistent adopted standards and criteria of the City of Galt. All SWQ treatment controls shall have a Declaration of Covenants recorded against the property.

SECTION 10 - GRADING:

64. Rough grading may be started prior to completion of Improvement Plans upon approval of the grading element of the plans and with the written permission of the City Engineer.

SECTION 11 - EROSION CONTROL:

65. Developers/Contractors whose projects disturb 1 or more acres of soil or whose projects disturb less than 1 acre, but are part of a larger common plan of development that in total disturbs 1 or more acres, shall file a Notice of Intent (NOI) with the State Water Resources Control Board. The Developer/Contractor shall supply 1 copy of the issued coverage confirmation and the Storm water Pollution Prevention Plan (SWPPP) to the City of Galt Public Works Department before the approval of the improvement plans. The SWPPP shall be on-site, and complied with, at all times.
66. At a minimum, the Developer/Contractor must implement an effective combination of erosion and sediment control on all disturbed areas. Effective erosion control measures include: temporary seeding, soil stabilizers, binders, blankets, temporary vegetation, and permanent seeding. Erosion control measures shall be in place and operational during the wet season, defined as the period between October 1st and April 30th annually. Sediment control practices include filtration devices and barriers (fiber rolls, silt fences, gravel bags, inlet filter bags, etc.) and will be in place year round. Sediment control devices shall be properly stabilized to prevent tracking to streets. Areas susceptible to tracking and sediment build-up shall be swept daily.
67. All trash, litter, and construction debris shall be placed in covered dumpsters. The dumpsters shall be located outside of the public ROW unless an encroachment permit is obtained and approved by the City Engineer.

SECTION 12 - SURVEY MONUMENTS:

68. The Contractor shall be responsible for the protection of all existing survey monuments and other survey markers during construction. All such monuments or markers damaged during construction shall be replaced at the Contractor's expense.
69. Monument box and survey stake shall be per City of Galt detail on plans. Monument boxes and stakes shall be located per details in Galt Municipal Code 17.36.

SECTION 13 - LANDSCAPING

70. All landscaping shall be maintained by the Developer/Contractor for a period of at least one year until the City has released the warranty and guarantee surety after the one year warranty period for the public improvements.
71. All landscaping changes from City approved landscaping plans shall be reviewed by the City of Galt Community Development Department prior to construction
72. If the standards details of the City landscape manual conflict with the City Improvement Standards, then the City Standards shall apply.
73. Irrigation Controllers shall be mounted within a pedestal cabinet consistent with City Landscape Manual standards and details.

ADDENDUMS (Not part of Required Notes):

NOTE: The addendum(s) listed in this section shall be included in these Improvement Standards. These addendum(s) are available at the City of Galt Public Works Department upon request in electronic and hard copy format.

ADDENDUM 1: Design Details and other drawings that differ from or supplement the Latest Sacramento County Construction Specifications and Improvement Standards. These include the following:

Details 4-14A, 4-23A, 4-33A, 4-37A; Alley Driveway Drawings A-1 and A-2; Revised 8-7; Monument Box detail; and Sampling Station Drawing.

ADDENDUM 2: City of Galt Utilities Attributes Template

REVISED STANDARD DRAWINGS

Attached Separately