

CITY OF NAPERVILLE STANDARD SPECIFICATIONS

SECTION 100: GENERAL ADMINISTRATION

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101 GENERAL

The purpose of this document is to present standards and specifications for the design of public and private improvements that will result in uniform, long lasting, quality construction. It is not intended as a substitute for good engineering judgment, and it anticipates that actual design work will be done by qualified professional engineers.

These standards also expect and require only the highest quality in construction procedures, workmanship, and finished product. Defective, inappropriate, damaged, or unacceptable construction, as determined by the City Engineer, will be removed and replaced at no expense to the city.

102 STANDARD SPECIFICATIONS

102.1 NAPERVILLE STANDARD SPECIFICATIONS

The specifications contained herein shall be for the construction of the following public facilities within the City of Naperville:

- a) Section 100: General Administration
- b) Section 200: Storm Sewer
- c) Section 300: Sanitary Sewer
- d) Section 400: Water Distribution System
- e) Section 500: Pavement
- f) Section 600: Street Lighting & Traffic Signals
- g) Section 700: Grading, Landscaping & Erosion Control

These specifications shall be herein referred to as the Naperville Standard Specifications.

102.2 OTHER SPECIFICATIONS

In addition to the specifications contained herein, the following documents shall be incorporated by reference:

- a) Illinois Department of Transportation, “Standard Specifications for Road and Bridge Construction”, latest edition. (herein referred to as IDOT Standard Specifications)
- b) Illinois Department of Transportation, “Supplemental Specifications and Recurring Special Provisions”, latest edition. (herein referred to as IDOT Supplemental Specifications)
- c) Illinois Department of Transportation, “Standard Specifications for Traffic Control Items”, latest edition.
- d) Illinois Department of Transportation, District 1 Traffic Signal Design Guidelines, latest edition.
- e) Illinois Department of Transportation, Design Manual, latest edition.
- f) Illinois Department of Transportation, Construction Manual, latest edition.
- g) Illinois Department of Transportation, Soils Manual, latest edition.

- h) Illinois Department of Transportation, Highway Standards, latest edition.
- i) Illinois Department of Transportation, Manual of Instructions for Concrete Proportioning and Testing, latest edition.
- j) Illinois Department of Transportation, Manual of Instructions for Bituminous Proportioning and Testing, latest edition.
- k) Federal Highway Administration, “Manual on Uniform Traffic Control Devices, latest edition” and the Illinois Supplement, latest edition.
- l) Illinois Society of Professional Engineers, Illinois Municipal League, et al, Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.
- m) ASTM Specifications, latest edition.
- n) AASHTO Standards, latest edition.
- o) The National Electrical Code, latest edition.
- p) The National Electrical Safety Code, latest edition.
- q) The Safety Rules for the Installation and Maintenance of Electric Supply and Communication Lines, latest edition.
- r) Illinois Urban Manual, IEPA/NRCS, latest edition.
- s) DuPage County, Countywide Stormwater and Flood Plain Ordinance, latest edition.
- t) Will County Stormwater Management Ordinance, latest edition.
- u) National Resources Conservation Services, National Engineering Handbook, latest edition.
- v) City of Naperville Municipal Code Book.
- w) City of Naperville, Work Zone Guide for Construction and Maintenance Projects, latest edition.
- x) City of Naperville, Concrete Construction in the Public Right-of-Way, latest edition.
- y) City of Naperville, Department of Public Works Manual on Parkway Plantings

102.3 RESOLUTION OF CONFLICTS

In the event of conflict between the Naperville Standard Specifications and the documents listed above in Section 102.2, the Naperville Standard Specifications shall take precedence and/or the City Engineer's decision will prevail. Any questions arising from these specifications should be directed in writing to the City Engineer for a determination.

102.4 USE OF OTHER MATERIALS

Products not currently approved for use within the City of Naperville may be considered for acceptance in accordance with the requirements of this section. The engineer, manufacturer, or City Department that desires to use a new product must submit that request in writing to the City Engineer. That request should include enough information about the product to allow the City Engineer to make a determination as to its appropriateness for use in the city. The request should also indicate if the product is requested for use on a specific project, or if the product is being requested for inclusion in the Naperville Standard Specifications. Upon review of the material, the City Engineer will find the product to meet one of the following categories:

- a) Not Approved – The product submitted is not considered to be acceptable or appropriate for use in the city.
- b) More Information Required – The City Engineer may determine that the information provided is inadequate to make a determination. If that is the case, the applicant may resubmit to the City Engineer with additional information.
- c) Special Use Application Only – The product submitted is acceptable for use on a specific project. Certain products which are not currently approved for use in the City of Naperville may have qualities which make them appropriate for use on special projects, even if they are not acceptable for general use throughout the city.
- d) Trial Basis – A trial period may be required for products before they can be considered for inclusion in the Naperville Standard Specifications. For those products approved for use on a trial basis, the City Engineer will establish the conditions under which the product can be used. The trial period will typically be one year. The performance of the product will be evaluated during the trial period. At the conclusion of the trial period, the City Engineer will determine whether or not the product will be accepted into the Naperville Standard Specifications.
- e) Inclusion in the Naperville Standard Specifications – The City Engineer may determine that the product is acceptable for general use throughout the city. If the product is approved, it will be added to the Naperville Standard Specifications through the Revision and Amendment process.

In all cases, the City Engineer will respond to the applicant in writing.

The City Engineer shall be responsible for the acceptance or rejection of materials or products for use on city projects. However, the City Engineer may confer with other city staff members to

aid in those decisions. For instance, rehabilitation products, materials and construction methods for existing sewer and watermains, services and manholes will also be reviewed by Department of Public Utilities.

102.5 REVISIONS AND AMENDMENTS

The Naperville Standard Specifications will be revised and amended on a recurring basis as needed as determined by the City Engineer. All revisions and amendments will be cataloged in Appendix A.

All public improvements shall be constructed to the Naperville Standard Specifications in effect at the time final engineering approval is granted by the city unless specifically directed otherwise by the City Engineer.

102.6 DESIGN MANUAL FOR PUBLIC IMPROVEMENTS

The Design Manual for Public Improvements is a manual prepared by the City of Naperville to provide developers, contractors, architects, engineers and other building professionals an easy to follow guide for development within the City of Naperville. This manual incorporates aspects of the Naperville Standard Specifications, the Naperville Municipal Code, and other design standards. In the event of conflict between the Naperville Standard Specifications and the Design Manual, the Naperville Standard Specifications shall take precedence and/or the City Engineer's decision will prevail.

103 DEVELOPER/CONTRACTOR RESPONSIBILITIES

103.1 PERMITTING

The owner or his/her representative is responsible to obtain any and all permits required by applicable governmental agencies.

Work on private property requires City of Naperville Development Review Team approval prior to beginning any construction work. The city's Development Review Team should be contacted to obtain information regarding any improvements to private property.

Work in the right-of-way requires approval of the City Engineer. A right-of-way permit must be processed through the city before any work is completed within the city's right-of-way.

103.2 BONDING AND LICENSING

All contractors must be licensed to make public improvements within the Naperville Corporate limits.

All contractors must provide a surety bond or letter of credit equal to 110 percent of the value of the proposed improvements. This bond or letter of credit will be held by the city for the duration of the project plus the warranty period. The contractor or developer may request reductions in the value of the letter of credit as approved by the City Engineer.

103.3 LIABILITY

The contractor or developer assumes all responsibility and liability for any action resulting from their work within the public right-of-way.

103.4 WARRANTY OF WORK

The contractor or developer maintains ownership of, and shall be responsible for, all public improvements until the City Engineer provides a Letter of Final Acceptance. From the date of that letter, the city will take ownership of the facilities provided a 12-month warranty by the contractor or developer of all improvements. If at any time during that 12 month period the city considers that any portion of the improvements fail to be meet the Naperville Standard Specifications, or exhibit poor workmanship or quality of materials, the city will require the contractor or owner to repair or replace the facility.

104 SURVEYING AND BENCHMARKS

104.1 CITY BENCHMARKS

The City of Naperville maintains a network of NAD83/NAVD88 survey monument benchmarks throughout the city. A web-based application called the Survey Monument Locator Application provides on-line monument information to surveyors, engineers and developers. To begin using the application, access the city's web site at www.naperville.il.us and enter "Monuments" in the search bar. Using this application, users may:

- Find the nearest survey monument to an address,
- Confirm monument availability, and
- Obtain a detailed monument report.

105 GENERAL CONSTRUCTION ACTIVITIES

105.1 PRE-CONSTRUCTION MEETING

At the discretion of city staff, a pre-construction meeting may be required with the City of Naperville prior to any work being started. A pre-construction meeting will not be scheduled until the project has been approved by the City of Naperville Development Review Team and the required surety has been posted.

105.2 NOTIFICATION TO CITY

A minimum of 48 hours notice shall be given to the City of Naperville, prior to starting work, or restarting work after some absence of work for any reason.

105.3 EXISTING UTILITY LOCATIONS

It shall be the contractor's responsibility to adequately identify and locate all existing utilities prior to excavation. Before starting construction, the contractor shall contact JULIE for the location of any and all utilities. The toll-free number is 800-892-0123.

105.4 HOURS OF WORK

Unless otherwise specified in the contract, all work activities shall be limited to the following hours:

- a) Tear Downs, Large Room Additions and New Construction (where 80% of the lots within 90 foot Radius are Improved with Dwelling Units)
 - Monday – Friday: 7AM – 7PM
 - Saturday: 8AM – 4PM
 - Sunday and Holidays: No work permitted
- b) Construction within 1,000 feet of any residence
 - Monday – Friday: 7AM – 7PM
 - Saturday: 7AM – 7PM
 - Sunday and Holidays: 7AM – 7PM
- c) Construction not within 1,000 feet of a residence
 - Monday – Friday: 7AM – 10PM
 - Saturday: 7AM – 10PM
 - Sunday and Holidays: 7AM – 10PM

Construction work includes the delivery of any materials or equipment and the operation of tools, machinery and apparatus. Holidays include: New Year's Day, Memorial Day, 4th of July, Labor Day, Thanksgiving Day, and Christmas Day. Any exceptions to these limitations must be authorized by the City Engineer.

106 TRAFFIC CONTROL REQUIREMENTS

106.1 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)

All developers and contractors shall provide suitable traffic control for their construction activities in accordance with Part 6 of the Manual on Uniform Traffic Control Devices, latest edition. Traffic control must be provided for any activity that impacts traffic flow. This includes, but is not limited to, road closures requiring detours, daily lane closures, long term lane closures, narrow lanes, and construction vehicles entering and exiting the public roadway. All traffic control set-ups may be inspected by the City of Naperville to ensure that they are providing positive guidance to motorists and are not in themselves presenting a hazardous situation. A representative of the developer or contractor must provide phone numbers at which they can be reached 24 hours a day and on weekends so that they can maintain traffic control devices.

Pedestrians must also be provided with a safe alternate route if pedestrian facilities are to be closed as a result of construction activities. Guidance must be provided to pedestrians so that they may avoid the work zone.

106.2 ARTERIAL LANE CLOSURES

Lane closures on arterial roadways within the City of Naperville are not permitted between the hours of 6am-9am and 3pm-7pm Monday through Friday unless otherwise permitted by the City Engineer. Arterial roadways are defined as both major and minor arterial roadways as designated on the city's Master Thoroughfare Plan, latest edition.

107 PERMITS

It shall be the responsibility of the owner/developer to obtain all required local, state and federal permits as needed to complete their work as contemplated. The City reserves the right to issue a stop work order in the event that proper permits have not been obtained, or if the work is not being conducted per the requirements of any permit.

108 (RESERVED)

109 (RESERVED)

110 RECORD DRAWINGS

Record drawings are required to provide a means of schematic verification that the intent of the approved engineering design has been met, thereby substantiating that the health, safety, and welfare aspects of the engineering design have been adequately provided by the construction of the project. Secondly, record drawings serve as a reference tool for future design and maintenance operations.

110.1 RECORD DRAWING REQUIREMENTS

a) General:

- 1) All improvements, whether private or public, are required to submit record drawings to the City for approval.
- 2) All elevations should be referenced to the same bench mark datum as the original design plans. The appropriate bench marks shall be noted on the cover sheet. Horizontal ties from the benchmark to fixed objects shall be included on the plans.
- 3) The information presented in the record drawings shall be clear and legible. Lettering on any plan shall not be smaller than 1/10 inch in height. Design data shall be lined out with one medium weight ink line and the record data shall then be lettered next to each lined out design dimension or elevation.
- 4) In the event that the civil engineering design drawings are larger than 24 inch x 36 inch, then the record plans shall be photographically reduced on photo fixed film to 24 inch x 36 inch and the scale of the reduced drawings marked on each sheet. However, photo reduction will only be allowed when the reduced drawing has a minimum lettering height of 1/10 inch.
- 5) If reduction of oversized plans yields a lettering height smaller than 1/10 inch, the plans will be copied at the existing scale onto several 24 inch x 36 inch Mylar sheets that overlap a minimum of 2 inches along each edge. A sheet key diagram will be added on the right or lower side of each sheet indicating how each 24 inch x 36 inch sheet should be assembled.
- 6) Digital Files: A standard layering scheme should be followed if possible. A sample scheme is attached as Exhibit 100-1. A prototype disk can be obtained from the Transportation, Engineering and Development Business Group. At a minimum, separate layers with clear concise layer names are required for alignment, profile, topography, soil borings, vegetation, water, rights of way, edge of pavement, roadway plan, roadside feature, property lines, buildings, traffic control, pavement markings, drainage, water, sanitary, electric, gas, telephone and railroads. Also, a plot file or pen schematic is required at time of submittal.

b) Watermain, Sanitary Sewers, and Storm Sewers

- 1) Watermain
 - i) Rim elevation on valve vaults, valve boxes, and service boxes.
 - ii) Breakaway flange elevation on fire hydrants and auxiliary valve boxes.
 - iii) Pipe sizes, materials and linear distance along water main from appurtenance to appurtenance (i.e. - valve vault to tee, tee to bend, bend to valve, etc.).
 - iv) Horizontal ties to all valve vaults, boxes and hydrants (1.0 foot tolerances).
 - v) Horizontal ties to all bends, tees, or other fittings (1.0 foot tolerances).
 - vi) Location of fire and domestic service lines and horizontal ties to connections along the main.
 - vii) Location, material, thickness, length and invert at both ends of casing pipes.
- 2) Sanitary Sewer
 - i) Rim elevations for manholes.
 - ii) Invert elevation for all pipes in manholes.
 - iii) Pipe sizes, materials and linear distance along sewer from structure to structure.
 - iv) Recalculated pipe slopes based on invert to invert elevation along the linear distance between manholes.
 - v) Locations of service lines and horizontal ties to connections along main, including horizontal ties to stub termini.
 - vi) Horizontal ties to all manholes (1.0 foot tolerance).
 - vii) Location, material, thickness, length and invert at both ends of casing pipes.
 - viii) Complete record drawings of lift stations, including all piping, electrical elements, and pumping elements.
- 3) Storm Sewers
 - i) Rim elevation on inlets, catch basins, manholes, and top and bottom of slope boxes, head walls, and other special structures.

- ii) Invert elevation of all pipes within inlets, catch basins, manholes; end sections, slope boxes, culverts, and other special structures.
 - iii) Pipe sizes, materials, and linear distance along sewers from structure to structure.
 - iv) Recalculated pipe slopes based on invert to invert elevations along the linear distance between structures.
 - v) Horizontal ties on all inlets, catch basins, manholes, flared end sections, slope boxes, and culverts (1.0 foot tolerance).
 - vi) Location, material, thickness, length and invert at both ends of casing pipes.
- 4) Utilities Systems Identification
- i) Privately owned utility mains that are connected to public utility mains must be clearly labeled as such on the record plans together with a note that states private utility mains shall not be maintained by the City of Naperville.
- c) Stormwater Management

Upon completion of final grading or completion of all:

- 1) Detention basins
- 2) Retention basins
- 3) Constructed or regraded streams and channels
- 4) Overflow routes (street areas that act as overflow routes)
- 5) Street depressions which are planned detention areas
- 6) Permanent and/or temporary diversion berms, swales, and control structures
- 7) Parking lots which are planned detention areas

A topographical survey of the stormwater management areas outlined above shall be prepared by an Illinois Registered Professional Engineer. The plans shall contain sufficient spot elevations and grading contour lines to show that the stormwater management facilities have been constructed in compliance with the approved civil engineering design plans. Record information for all public improvements within the stormwater management area must be depicted on the record plans. Additionally, the as-constructed stormwater management volume together with the approved final engineering planned volume shall be depicted in tabular form. The potential as-constructed average and peak release rates as

compared with the design release rates must be provided in tabular form when major deviations from the approved design have occurred.

d) Outdoor Lighting

- 1) Horizontal ties on lighting standards and control cabinets (if applicable) as referenced to the approved plan stationing or coordinates (1.0 foot tolerance)
- 2) Service cables and service transformers shall be depicted in schematic format
- 3) Directional orientation of mast arm with luminaire
- 4) Dimensional ties shall be provided for all conduit crossings which are provided for present or future use

e) Plats of Subdivision

The Illinois State plane grid based bearings and ground based distances shall be noted along the subdivision boundary lines and along the lot lines, from two City of Naperville control monuments to the subdivision boundary monuments.

110.2 RECORD DRAWING CERTIFICATION REQUIREMENTS

Certification of the record information shall be by a registered Professional Engineer in Illinois. The engineer shall review the improvements and provide a signed and sealed Statement of Opinion indicating that the project was constructed and will function in substantial conformance to the approved engineering plans, and that said improvements are accurately depicted on the record drawings. (A sample certification is attached for reference purposes as Exhibit 100-2.) The cover sheet for water, sanitary sewer, storm sewer, outdoor lighting and stormwater management submittals shall have the certification clearly printed thereon. The certification shall bear the original ink handwritten signature, date of signature and impressed seal of the Engineer that prepared the record civil engineering design plans. Per county ordinance, signatures over 90 days old at the time of submittal to the city will not be accepted.

In addition, each sheet shall bear the name of the project and be labeled, dated and initialed by the Professional Engineer using the standard legend denoting "Record Plan" as depicted on the sample certification, see Exhibit 100-3.

110.3 SUBMITTAL OF RECORD PLANS

Three sets of 24 inch x 36 inch record blue-line prints (bound/stapled on the 24 inch side) shall be submitted by the developer or the engineer that prepared them to:

City of Naperville
Transportation, Engineering and Development Business Group
400 South Eagle Street
Naperville, Illinois 60540

Each set shall be signed, sealed and dated by the engineer as described in Section 110.2. Additionally, the plans shall clearly indicate the type of submittal (i.e. watermain, sanitary sewer, stormwater, street lighting) and if the submission is a complete or a partial set as described in Section 110.4.

110.4 PARTIAL SUBMITTAL OF RECORD PLANS

When the developer or the engineer for a particular development desires to initiate a partial acceptance of public facilities contained within a development, a partial set of record drawings can be submitted. The partial record plans shall consist of the cover sheet and those sheets which are involved in the partial acceptance.

Partial submittals will comply fully with the specifications contained in this document. In addition, the engineer shall state within the certification the scope of the partial submission (i.e. phase number, unit number, lot numbers, streets), and each sheet shall note "partial" adjacent to the engineer's signature.

110.5 REVIEW OF RECORD PLANS

A review of all record plans shall be made by the City Engineer and/or city engineering staff. If the City Engineer finds that revisions to the subject record plans are required, then the engineer that prepared such record plans shall be notified in writing as to what items on the record plans should be revised. The engineer that prepared the record plans shall:

- a) Make the revisions required promptly to avoid delay of acceptance or final occupancy.
- b) Clearly note on the cover sheet and each sheet thereafter, the nature of the revision and the date that revisions were made, even if no revisions were made to that particular sheet.
- c) Re-date and resign the certification on the cover sheet.
- d) Resubmit 3 sets of record drawings for review as detailed in Section 110.2.

110.6 ACCEPTANCE OF RECORD PLANS

Written approval of record plans must be obtained from the City Engineer and is an important part in the issuance of building permits, temporary/final occupancy permits, or acceptance of facilities by City Council.

Following review by the City Engineer, the Engineer/Developer will receive written notification that the record plans are in accordance with City Specifications. The Engineer/Developer shall then provide the city with copies of each sheet that the City Engineer has approved in the following formats:

- a) One copy of a reproducible Mylar sepia (3 mil minimum thickness) – 24 inch x 36 inch with the original ink seal and signature certification. All drawings on Mylar must be ink pens, inkjet or other similar technology. Xerographic methods are not acceptable.

- b) Two copies of record prints on paper – 24 inch x 36 inch
- c) One copy in a digital format (.dxf or .dwg) submitted on a standard size CD-ROM. The drawing file shall be drawn using decimal units with actual Illinois State Plane Grid Coordinates.

In cases of a discrepancy between the drawings submitted, the sealed Mylar will prevail.

These drawings shall meet all specifications described within Section 110. No building permits, temporary/final occupancy permits, or acceptance of facilities by City Council will proceed until the reproducible documents have been submitted to:

City of Naperville
Transportation, Engineering and Development Business Group
400 South Eagle Street
Naperville, Illinois 60540

112 FINAL ACCEPTANCE OF IMPROVEMENTS

Final acceptance of public improvements shall be granted only after a final inspection has been completed and has revealed that all improvements have been satisfactorily completed in accordance with the Naperville Standard Specifications. The City Engineer shall provide a Letter of Final Acceptance. Upon issuance of that letter, the City will accept ownership of any public improvements.

Final acceptance does not relieve the developer or contractor or their responsibility to warranty their work for a period of one year from the date of final acceptance.

EXHIBIT 100-1
TYPICAL LAYER SCHEME FOR DIGITAL FILES

LAYER NAME	Items that may be found on that layer
Alignment	Centerline, base line, survey line, stationing, roadway name, bench marks, horizontal ties p.c. and p.t. stations and station equations.
Profile	Roadway profile, vertical curve data, profile elevations, roadway dimensioning, vertical ties.
Topography	Ground contours, detention and retention areas elevations, associated text.
Soil Borings	Soil boring details, plan and profile.
Vegetation	Trees, brush, hedges, forests, associated text.
Water	Lakes, rivers, streams, ponds and associated text.
Right of Way	Right of way, access control, easements and associated text.
Edge of Pavement	Streets, roads, alleys etc.
Roadway Plan	Medians, curbs, gutter, and shoulders.
Roadside Features	Sidewalks, private entrances, commercial entrances
Buildings	Buildings, fences, parking lots, advertising signs, mailboxes, associated text.
Private Boundaries	Property lines, iron pipes, concrete monuments, survey markers, section corners, ownership information.
Pavement Marking	Pavement marking lines, letters and symbols, raised pavement markers, delineators, regulatory signs and warning signs.
Traffic Signal	Traffic signal plan
Electric	Power poles, cables, control cabinets, schematics, and junction boxes
Water utility	Fire hydrants, valve vaults, pipe, buffalo box, pump stations, and storage towers.
Sanitary sewer	Manholes, pipe, lift stations, treatment plants.
Drainage	Manholes, inlets, catch basins, sewer main, overflow routes, ditch flow line, detention and retention areas.
Railroads	Control box, crossing gate, tracks, signal and overpass.
Gas	Gas main
Telephone	Telephone

These drawings shall meet all specifications described within Section 700. No building permits, temporary/final occupancy permits, or acceptance of facilities by City Council will proceed until the reproducible documents have been submitted to:

City of Naperville
Transportation, Engineering and Development Business Group
400 South Eagle Street
Naperville, Illinois 60540

**EXHIBIT 110-2
SAMPLE CERTIFICATION**

STATEMENT OF OPINION

Pursuant to the Naperville Municipal Code, I _____ a registered Professional Engineer in the State of Illinois, hereby declare that these "Record Drawings" pertaining to (watermain, sanitary sewer, storm sewer) (stormwater management) (outdoor lighting) consisting of sheets _____ and _____ included herewith, have been prepared for a certain project known as _____ and contain information as obtained by the surveyor _____ and the contractor _____. It is my professional opinion that these "Record Drawings" adequately depict the Record Drawing Information required by the City of Naperville's "Record Drawing Procedures and Standards for Civil Engineering Site work Improvements," document bearing the effective date of _____, and substantiate that the improvements constructed as part of this project will function in substantial conformance to the design intent of the approved engineering plans.

Dated: _____

Signed: _____

Illinois Registration Number: _____

(SEAL)

**EXHIBIT 100-3
STANDARD LEGEND**

RECORD PLAN FOR		
TYPE	DATE	P.E. INITIALS
WATERMAIN SANITARY SEWER STORM SEWER		
STORMWATER MANAGEMENT		
OUTDOOR LIGHTING		