

time to a manufactory for the forging of arms, and at another in a spacious factory for the manufacture of iron. The latter was the origin of the convent; some writers contend for its having taken place as early as the last year of the fourth century, and having been the work of the great Varian, the Bishop of Exeter. Others, however, give to these the greater number, are content with tracing it to the reign of Clovis. Those who adopt the latter opinion are again divided, as to whether the prince himself was the actual founder, or only assisted by his royal sonnet which was really the establishment of Archbishop Flavins. In either case, however, they agree in dating the origin of the abbey from the year 413.

Upon the invasion of the Normans in the ninth century, this abbey shared the common fate of the Norman conquest, and, like the rest, it rose from its ashes with greater magnificence, after the conversion of these barbarians to Christianity. Nicholas, the fourth abbot of the convent, in the year 1120, caused the abbey to be enlarged, it is said by Ordericus Vitalis to have commenced "a new church of wonderful size and elegance." But though he presided over the fraternity for nearly thirty years, he did not see the building finished; the bringing of the task to perfection was reserved for William Baco, the very best one to him in the succession; and he was dead in the next year of the dedication which did not take place till 1135.

The church which had cost eighty years to build, was suffered to exist but a short time longer, only one year, and then, in consequence of its dedication, when it fell a prey to a conflagration, which was at the same time destructive to the greater part of the city; another church built shortly after, and chiefly by the munificence of Richard Cœur-de-Lion, shared the same fate in 1183. But even those two consecrated disasters in no way abated the spirit of the monks; they had inherited with the wreck of their property its own estate near Repton, and there, by economy on their own part, and liberality on that of others, they soon found themselves in a state to undertake the erection of a fourth church, of greater extent than any of the former, and to inclose it with high walls. The honor of laying the first stone of the new church, the same as of the former, was reserved to one of the most celebrated of the abbots, John Russell, more eminently known by the name of Marescalque. He had been elected to the prelacy in 1212, and five years afterwards, he was appointed to the structure. He presided over the necessary thirty-seven years, and was buried in the Last-Chapel of the church, which he had completed as far westward as the choir. The remaining parts of the church were not finished till the beginning of the sixteenth century, when it was brought to its present state by the thirty-fourth abbot, Anthony Bekker, who, in the middle of the convent, bore the character of having been "a magnificent restorer and repaire of ancient monuments."

Admirable as is the structure, the original design of the architect was never completed. The western front remains imperfect; and this is more to be regretted, as that part is naturally the first that meets the eye of the stranger, who thus receives an unfavorable impression, which is afterwards difficult wholly to banish. The intention was, that the portal should have been flanked by magnificent towers, ending in a combination of arches and tracery, corresponding with the outline and fashion of the central tower. An engraving of this intended front, is given in Pomeroy's "History of Abbeys," from a sketch preserved among the records of the convent.

The view of this church etched by Mr. Colman, is copied from a drawing made by Miss Elizabeth Turner. It represents the building, as seen from a seat in the garden formerly belonging to the monastery, but now open to the public; and it is well calculated to give a general idea of the character of the exterior of the building, including the central tower, which is wholly composed of open arches and tracery, and terminates like the south tower of the cathedral, in a square tower of four-sided. The plate also exhibits a portion of a circular chapel, now erroneously known by the name of St. Clement de Clercs, only remaining part of the church built by William Baco, in the beginning of the twelfth century. This chapel, the south porch, the central tower, and a specimen of ancient sculpture in the church, have been engraved by Mr. Turner in his "Tour in Normandy." The two first, of the same subject, together with the western front, a general view of the church from the south, the curtain-ha-ha-oid over the southern entrance, and a representation of the interior, have since been lithographed in M. Jolinson's "Museum de la Normandie." Considerable pains have been devoted in both these works to the description and the history of the building; and to this the reader must be referred, who is unwilling to engage with the ponderous folio of Pomeroy.

THE CHARTER-HOUSE, LONDON. SKETCHES BY MR. C. H. BLACKALL.

The group of buildings now known as the Charter-House is situated in that part of the city of London, upon the north side of the old St. Paul's Market, and but a short distance from the still existing St. John's Gate, a portion of the old city walls. The name has been corrupted from Charter, a Carthusian monastery having been founded here in 1371, on the site of a burying-ground for persons dying of the plague. In 1535, Henry VIII dissolved the monastery, and shortly after, the property came into the hands of Thomas Howard, Duke of Norfolk. Most of the existing buildings date from this

period, and the old work was greatly enriched, and put in thorough repair by the Duke's son, since his family seat. Here Queen Elizabeth was entertained during a few days, awaiting preparations for her coronation, and during a subsequent visit, she is supposed to have been greatly amused to see her host, who loved his sovereignty too little, or perhaps too much, and who was locked up in his own house by his children. James I also kept court in the Charter-House, and in the reign of Charles I. Subsequently, the establishment was much neglected, and was little used until 1611, when all that was left of the former buildings was purchased by Thomas Sutton, a wealthy merchant, who had made a great deal of money out of Government contracts. He put everything in very thorough repair, making a number of additions and changes, and caused to be built a school for fifty boys, and an asylum for eighty indigent and deserving gentlemen. Sutton left everything very thoroughly organized and richly endowed, and the Charter-House is maintained in the same manner, but has not changed materially since his day. Grace is still said to abide in the same words used by the retired merchant, who thought so much of his formula, that he had it engraven that motto on the wall of the school. In 1872, the boys school was transferred to new and more spacious quarters at Gosdining, Surrey. The "Merchant Taylors Company" has lately acquired a portion of the old Charter-House, and has erected a large brick school-house, which however has nothing to do with the Charter-House. The poor Brothers' still remain, and as they did two centuries ago, they are very conscientiously benevolent, and are facing the interior courts. The school has always been crowded and has had among its former pupils, Barrow, South, Addison, Southey, Water, Grey, Hasle, and Thackeray. In "The Newcomes" Thackeray presents some very pleasing pictures of life in the old Charter-House school.

Of the old monastic buildings, nothing now remains but the pointed entrance gateway, and portions of the interior walls, though the kitchen appears to have been erected before the school was used. In 1872, the large dining-hall is considered the most perfect specimen of an Elizabethan room in London. The ceiling is of a Gothic feeling, however, and has the appearance of having been added to the older monastic structure. One end of the room is crossed by a high narrow screen, very rich in carving and Elizabethan tracery; the columns being very finely proportioned, and the carved Norfolk's monogram is cut on the fringe of this screen, with the date 1511. The room has a high window all around, and a narrow gallery along one side, connects with a monastic passage, the screen above referred to. The old fireplace was built by Thomas Sutton, and is adorned with the Sutton arms, and various emblems of the master in which the old merchant abides by his wish. In the same wing with the dining-hall is the old chapel containing some excellent wood-work, and a very handsome staircase, very well preserved, and exceedingly rich in detail. Portions of the old work are found on the new-ports. This staircase hall has also quite a handsome ceiling of Elizabethan strap-work, and is a most interesting room with richly carved plaster, on either side, and an elaborate ceiling. The Queen Elizabeth room is in this same portion of the Charter-House, and is a very perfect example of the style of the period, with a large mullioned reaching to the ceiling. Some of the old furniture still exists, and the ceiling of moulded plaster strap-work, is in a very good state of preservation. The plan of this room is not unlike that of the large chambers in Haddon Hall.

C. H. B.

THE CARthusIAN MONASTERY, PAVIA, ITALY.  
The Carthusian Monastery is one of the most celebrated buildings in southern Italy. The famous facade of Ambrogio Boggonzo, was begun in 1473, nearly a century after the foundation of the monastery.

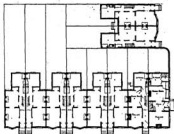
The view published today shows a much less familiar aspect of the structure.

THE CHURCH OF ST. NICHOLOA, GHENT, BELGIUM.

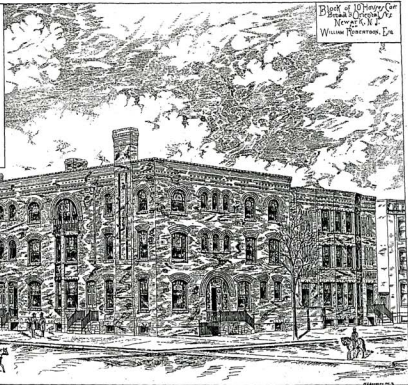
It is of this church, the oldest in the city, that the following particular description is commonly given: *L'eglise a une tour de six ou sept (presomment cent) cloches.* [The church has never more than a hundred bells—literally, "not without bells."] The greater part of this building dates from early in the fifteenth century.

STUDY FOR A HOUSE AT PITTSBURGH, PA.—SKETCH OF THE ENTRANCE. MR. H. P. KERRY, ARCHITECT, PITTSBURGH, PA.  
BLOCK OF TEN HOUSES FOR MR. ROBERTSON, ENG., NEWARK, N. J.  
BY MR. VAN CAMPEN TAYLOR, ARCHITECT, NEWARK, N. J.

THE VALUE OF THE COEFFICIENT OF EXPANSION.—An illustration of the way in which a coefficient like 0.00006, that of the expansion of steel, may become a big thing with a few degrees of temperature and long lengths has been seen, says the Engineer, on the new Midland line between Innes and Banbridge, recently opened for public traffic. The rails were laid during winter time, and the temperature at that time was below zero. The rails were laid with a view to the expansion, consequently the summer heat expanded the rails to such an extent that the road bent out of line at several places, and the permanent way altered and properly adjusted. Accidents from the "springing" of rails are far more frequent than is supposed on results in this country. Four companies long ago discovered the necessity of regulating the space allowed for expansion in the ends of rails, or in constant reference to the length of the contractor on the spot and during the whole process of laying the rails.



FIRST FLOOR PLAN.



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