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|  |  |  | |  |  | **RECOMMANDATIONS** | | | | | | | | | | |  | |  | |  | |  | |  |
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| * Les réponses sont rédigées à l’encre (pas de rouge) et au crayon de papier pour les croquis et les schémas. | | | | | | | | | | | | | | | | | | | | | | | | | |
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| * Le sujet devra être rendu avec toutes les pages dans le bon ordre, agrafé dans une copie d’examen. | | | | | | | | | | | | | | | | | | | | | | | | | |
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| * En cas d’utilisation de tableaux de calcul fournis par le centre, ceux-ci seront agrafés sur ce document. | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  |  |  | | **Aucun document personnel n’est autorisé.** | | | | | | | | | | | | | | | | |  | |  | |  |
|  |  |  | | **Les calculatrices sont interdites. L’utilisation de la calculatrice de l’ordinateur est autorisée ainsi que l’utilisation des logiciels professionnels.** | | | | | | | | | | | | | | | | |  | |  | |  |
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| Ce dossier est accompagné de documents ressources numériques **(RESi)** listés ci-dessous. | | | | | | | | | | | | | | | | | | | | | | | | | |
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|  | | | **DOCUMENTS RESSOURCES** | | | | | | | | | | |  | |  | |  | |  | |  | |  | |
| **RES1i** | | | Extrait Permis d’Aménager | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES2i** | | | Documents Cadastraux | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES3i** | | | Extrait Plan Local d’Urbanisme | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES4i** | | | Extrait plan cadastral au 2000 | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES5i** | | | Extrait carte IGN avec parcellaire cadastral sans échelle | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES6i** | | | Fiches signalétiques de repères de nivellement | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES7i** | | | Fiches signalétiques de repères géodésiques | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES8i** | | | Extrait carte IGN sans échelle connue | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
| **RES9i** | | | Cahier des charges techniques et particulières | | | | | | | | | | | **X** | |  | |  | |  | |  | |  | |
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| **ÉPREUVE E2** | | | | | | **ANALYSE ET TECHNOLOGIE** | | | | | | | | | | | | | |
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| **SOUS – ÉPREUVE**  **U21** | | | | | | **ANALYSE D’UN DOSSIER** | | | | | | | | | | | | | |
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| Ce dossier est composé de documents études **(DE)**, de documents techniques **(DT)** et de documents réponses **(DR)**. | | | | | | | | | | | | | | | | | | | |
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| **DOSSIER ÉTUDES** | | | | | | | | | | | | | | | | | | | |
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| **Numéro**  **de l’étude** | | | **Activités et documents** | | | | | | | | | | | **Barème** | | | **Durée conseillée** | | |
| **0** | | | Lecture du dossier | | | | | | | | | | |  | | | 15 mn | | |
| **1** | | | Analyse et recherche des informations sur les éléments du cadastre | | | | | | | | | | | / 12 | | | 50 mn | | |
| **2** | | | Identification des contraintes d’urbanisme | | | | | | | | | | | / 10 | | | 40 mn | | |
| **3** | | | Collecte et gestion des informations à partir de documents issus de Géoportail | | | | | | | | | | | / 10 | | | 40 mn | | |
| **4** | | | Analyse de la méthode d’implantation | | | | | | | | | | | / 08 | | | 35 mn | | |
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| **ANALYSE D’UN DOSSIER** | | | | | | | | | | | | | | | | | | **ÉTUDE 1** | | | |
| **Analyser et rechercher des informations sur les éléments du cadastre** | | | | | | | | | | | | | | | | | | | | | |
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| **SITUATION PROFESSIONNELLE : Cabinet de Géomètre Expert** | | | | | | | | | | | | | | | | | | | | | |
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| L’unité foncière composée des terrains section DZ parcelles 207, 208, 209, 210, 1528 et 1530 sur la Commune de Narbonne 11100, dans l’Aude, lieu-dit « Les Abrassous Bas », est prévue pour l’aménagement de plusieurs lots à bâtir. | | | | | | | | | | | | | | | | | | | | | |
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| Le cabinet de Géomètre Expert LAMBERT qui vous emploie, est chargé du projet. Vous devez en étudier la faisabilité et rechercher certaines informations cadastrales. | | | | | | | | | | | | | | | | | | | | | |
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| **ON DONNE :** | | | | | | | | | | | | | | | | | | | | | |
| **RES1i** | | | Extrait Permis d’Aménager | | | | | | | | | | | | | | | | | |  |
| **RES2i** | | | Documents Cadastraux | | | | | | | | | | | | | | | | | |  |
| **RES3i** | | | Extrait Plan Local d’Urbanisme | | | | | | | | | | | | | | | | | |  |
| **DR1.1, DR1.2 et DR1.3** Analyse et recherche d’informations sur les éléments du cadastre | | | | | | | | | | | | | | | | | | | | |  |
| **DR2** | | | Extrait du plan cadastral | | | | | | | | | | | | | | | | | |  |
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| **ON DEMANDE :** | | | | | | | | | | | | | | | | | | | | | |
|  | **1.1.** | | Répondre au questionnaire « **ANALYSE ET RECHERCHE D’INFORMATIONS SUR LES ÉLÉMENTS DU CADASTRE** » des **DR1.1, DR1.2 et DR1.3** et renseigner l’extrait du plan cadastral **DR2**. | | | | | | | | | | | | | | | | | |  |
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| **ON EXIGE :** | | | | | | | | | | | | | | | | | | | | | |
|  | **•** | | L’unité foncière constituant le projet est correctement identifiée ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Le détail des calculs (échelle, distances, surfaces, coordonnées) et les résultats sont donnés avec les unités ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Les coordonnées sont données au décimètre près avec une tolérance de 3 mètres ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Les signes conventionnels sont parfaitement identifiés. | | | | | | | | | | | | | | | | | |  |
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**1.1. ANALYSE ET RECHERCHE D’INFORMATIONS SUR LES ÉLÉMENTS DU CADASTRE**

1.1.1. Surligner en vert les limites de l’unité foncière objet de l’étude d’un lotissement sur l’extrait du plan cadastral **DR2**.

1.1.2. Repérer les parcelles qui constituent l’unité foncière concernant le projet de lotissement et compléter le tableau ci-dessous (section, numéro, contenance et superficie).

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|  |  |  | **Ville :** | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | **Lieu-dit :** | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | **SECTION**  **CADASTRALE** | | | | | | | **NUMÉRO DE**  **PARCELLE** | | | | | | | **CONTENANCE**  **ha a ca** | | | | | | | **Convertir la contenance en**  **m2** | | | | | | |  |  |  |  |  |  |
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**1.1.3.** Déterminer l’échelle de l’extrait du plan cadastral du **DR2**. Expliquer la méthode employée et faire figurer tous les détails des calculs. L’extrait du plan cadastral n’est pas imprimé à une échelle normalisée.

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**1.1.4.** Mesurer les dimensions de la parcelle 210 (cotes périmétriques et diagonales) sur le **DR2**. Noter ces valeurs sur le schéma en noir. En déduire les dimensions de la parcelle en tenant compte de l’échelle calculée et les noter en bleu sur le schéma. Calculer la superficie de la parcelle au m2 près. Tous les détails des calculs seront donnés.

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| Schéma  Parcelle  210 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**1.1.5.** Déterminer les coordonnées de la station 114 qui a servi au levé d’une partie de l’unité foncière. Elle figure sur l’extrait du plan cadastral **DR2** et sur le **RES2i** (en rouge). Tous les détails des calculs seront donnés.

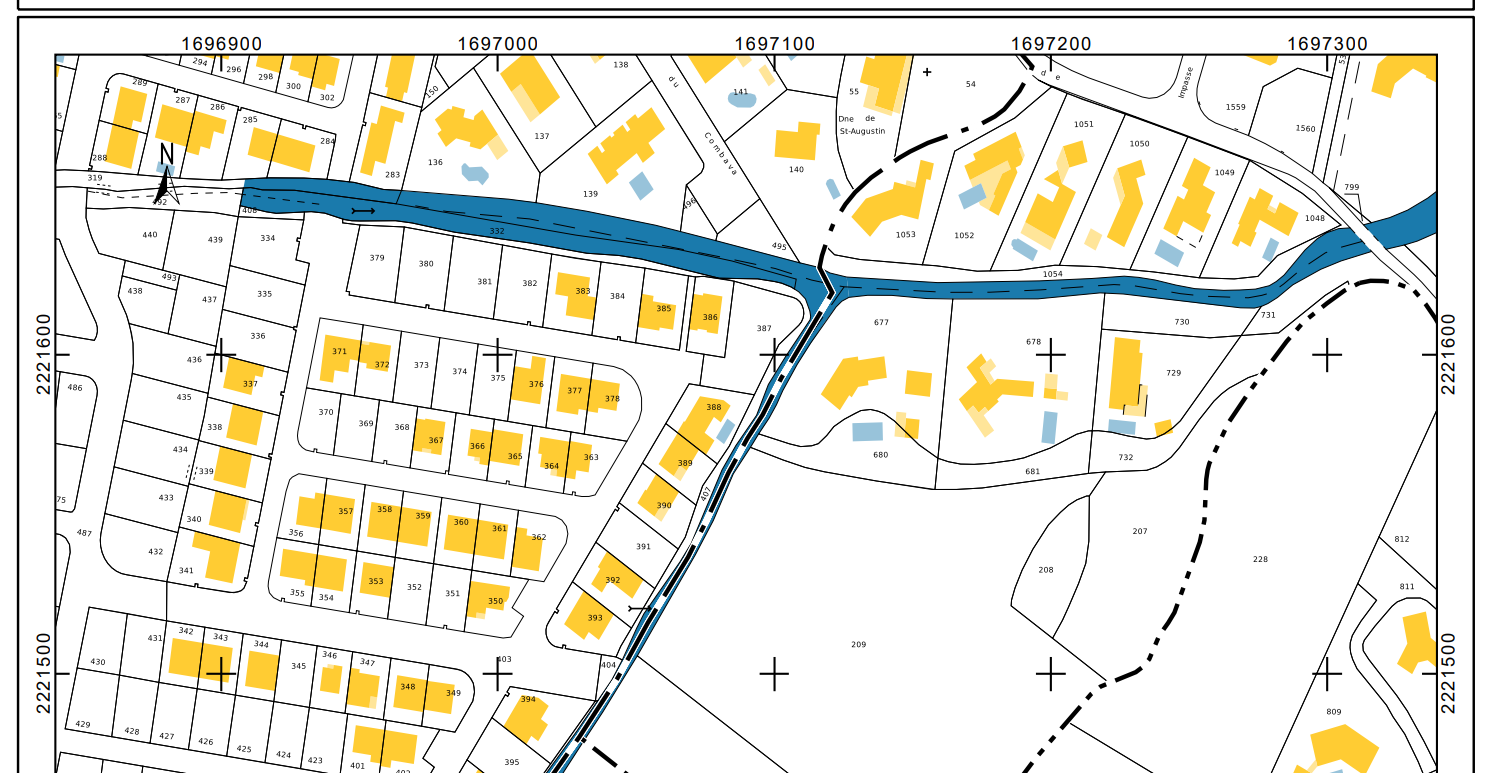
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**1.1.6.** Identifier les différents signes conventionnels représentés ci-dessous qui figurent sur l’extrait du plan cadastral **DR2** et sur le **RES2i**.

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**EXTRAIT DU PLAN CADASTRAL**

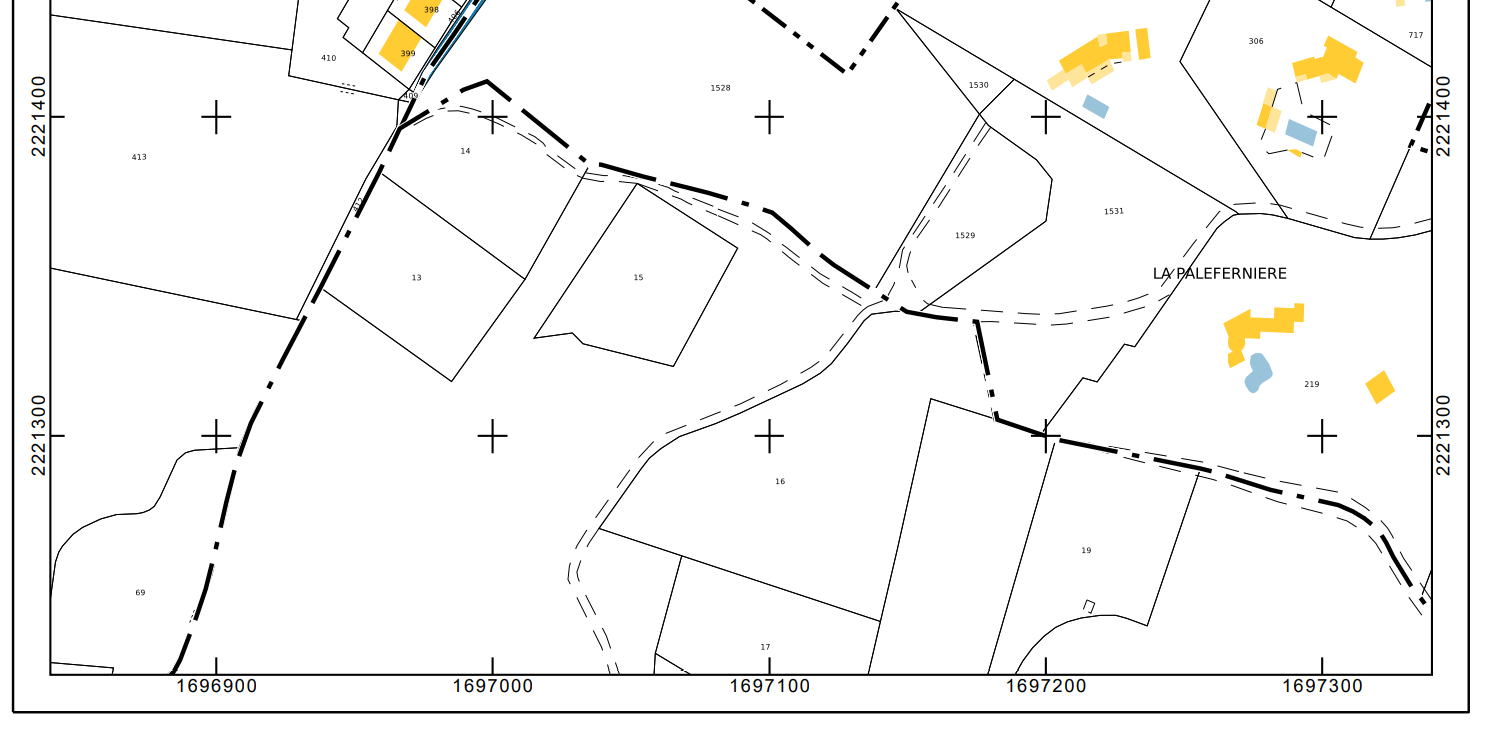
Pas d’échelle normalisée



**STATION 114**

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| **ANALYSE D’UN DOSSIER** | | | | | | | | | | | | | | | | | | **ÉTUDE 2** | | | |
| **Identifier des contraintes d’urbanisme** | | | | | | | | | | | | | | | | | | | | | |
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| **SITUATION PROFESSIONNELLE : Cabinet de Géomètre Expert** | | | | | | | | | | | | | | | | | | | | | |
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| Le cabinet de Géomètre Expert LAMBERT qui vous emploie est chargé d’étudier le projet de création d’un lotissement de 61 lots à bâtir. | | | | | | | | | | | | | | | | | | | | | |
| Vous êtes chargé de cette étude et devez justifier le choix de la procédure administrative et identifier les règles d’urbanisme. | | | | | | | | | | | | | | | | | | | | | |
| Les règles du PLU s’appliqueront au lotissement. | | | | | | | | | | | | | | | | | | | | | |
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| **ON DONNE :** | | | | | | | | | | | | | | | | | | | | | |
| **RES1i** | | | Extrait Permis d’Aménager | | | | | | | | | | | | | | | | | |  |
| **RES2i** | | | Documents Cadastraux | | | | | | | | | | | | | | | | | |  |
| **RES3i** | | | **Extrait Plan Local d’Urbanisme** | | | | | | | | | | | | | | | | | |  |
| **DR3.2** | | | **Choix entre « Déclaration Préalable » et « Permis d’Aménager »** | | | | | | | | | | | | | | | | | |  |
| **DR3.1 et DR3.3** Justification de la création d’un Permis d’Aménager | | | | | | | | | | | | | | | | | | | | |  |
| **DR4.1, DR4.2 et DR4.3** Identification des contraintes d’urbanisme | | | | | | | | | | | | | | | | | | | | |  |
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| **ON DEMANDE de répondre au questionnaire DR3.1 à DR4.3** | | | | | | | | | | | | | | | | | | | | | |
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| **ON EXIGE :** | | | | | | | | | | | | | | | | | | | | | |
|  | **•** | | Le choix du Permis d’Aménager est clairement justifié ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Les contraintes administratives du Permis d’Aménager sont identifiées ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | La zone du PLU concernant l’unité foncière est identifiée ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Les prospects sont identifiés et/ou représentés. | | | | | | | | | | | | | | | | | |  |
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**2.1. Justification de la crÉation d’un Permis d’AmÉnager**

**2.1.1.** Combien de lots seront créés sur le lotissement « Le Clos de la Campane » ?

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**2.1.2.** Y-a-t-il une voirie interne au lotissement qui dessert tous les lots ?

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**2.1.3.** Citer 5 éléments qui font partis des espaces ou équipements communs.

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**CHOIX ENTRE « DÉCLARATION PRÉALABLE » ET « PERMIS D’AMÉNAGER »**

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|  |  |  |  |  | **1èrequestion** | | | | | | | | | | |  |  |  |  |  |  |
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|  |  |  |  |  | **Le détachement a-t-il pour objet de créer un ou plusieurs lots destinés à être bâtis ?** | | | | | | | | | | | |  |  |  |  |  |
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|  |  |  |  |  | Article R.442-1  Exclure les divisions qui ne constituent pas un lotissement. | | | | | | | | | | | |  |  |  |  |  |
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|  |  |  |  |  | **2ème QUESTION** | | | | | | | | | | | |  |  |  |  |  |
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|  |  |  |  |  | **Quel est le périmètre du lotissement ?** | | | | | | | | | | | |  |  |  |  |  |
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|  |  |  |  |  | Article L.442-1-2  Inclure le lot ou les lots à bâtir ainsi que les voies de desserte, les espaces et les équipements communs à ces lots et, le cas échéant, les parties déjà bâties de la ou des unités foncières concernées. | | | | | | | | | | | |  |  |  |  |  |
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|  |  |  |  |  | **Le projet prévoit-il la création ou l’aménagement de voies, d’espaces ou d’équipements communs internes au lotissement ?** | | | | | | | | | | | |  |  |  | **🠟 OUI** | |
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| **DÉCLARATION**  **PRÉALABLE** | | | | |  |  |  |  | **NON 🠟** | |  |  |  |  |  |  | **PERMIS**  **D’AMÉNAGER** | | | | |
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|  |  | |  |  | **Le projet est-il situé dans un site classé ou dans un secteur sauvegardé dont le périmètre a été délimité ?** | | | | | | | | | | | |  |  |  | |  |
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**2.1.4.** À partir du **DR3.2** justifier le choix de réaliser un Permis d’Aménager pour la création du lotissement « Le Clos de la Campane ». Surligner le cheminement de votre réflexion sur l’organigramme du **DR3.2** et noter les éléments justificatifs.

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**2.2. IDENTIFICATION DES CONTRAINTES D’URBANISME**

**2.2.1.** Vous venez de déposer votre demande de « Permis d’Aménager ».

* Où l’avez-vous déposée ?
* Quel est le délai maximum d’instruction ?
* Après accord, pour commencer les travaux, on vous demande d’observer un délai supplémentaire. Quelle est sa durée et quel est son objet ?

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**2.2.2.** Identifier et donner le nom des zones du PLU apparaissant sur le **RES1i**. Développer ces sigles. Représenter en violet les limites des différentes zones avec leur sigle sur le **DR2**.

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**2.2.3.** Identifier dans le PLU, les prospects à respecter pour le lotissement :

* (a) des implantations des constructions par rapport aux voies et emprises publiques ;
* (b) des implantations des constructions par rapport aux limites séparatives ;
* (c) des implantations des constructions les unes par rapport aux autres sur une même propriété ;
* (d) la hauteur maximum des constructions.

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| **(a) Des implantations des constructions par rapport aux voies et emprises publiques** | | | | | | | | | | | | | | | | | | | | **(b) Des implantations des constructions par rapport aux limites séparatives** | | | | | | | | | | | | | | | | | | | |
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| **(c) Des implantations des constructions les unes par rapport aux autres sur une même propriété** | | | | | | | | | | | | | | | | | | | | **(d) La hauteur maximum des constructions** | | | | | | | | | | | | | | | | | | | |
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**2.2.4.** Tracer sans échelle et coter, les prospects repérés (a) et (b) précédemment, pour le lot B, dans le schéma ci-dessous. Hachurer la zone non constructible sur le lot B.

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**2.2.5.** Tracer sans échelle et coter la contrainte repérée (d) précédemment, dans le schéma ci-dessous.

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| **ANALYSE D’UN DOSSIER** | | | | | | | | | | | | | | | | | | **ÉTUDE 3** | | | |
| **Collecter et gérer des informations à partir de documents issus de GEOPORTAIL** | | | | | | | | | | | | | | | | | | | | | |
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| **SITUATION PROFESSIONNELLE : Cabinet de Géomètre Expert** | | | | | | | | | | | | | | | | | | | | | |
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| Le relevé topographique effectué dans un système local, doit être rattaché dans les systèmes légaux, en planimétrie et en altimétrie. Vous devez récolter et analyser les données permettant ce rattachement.  L’unité foncière composée des parcelles section DZ parcelles 207, 208, 209, 210, 1528 et 1530 sur la commune de Narbonne 11100, dans l’Aude, lieu-dit « Les Abrassous Bas », est prévue pour l’aménagement de plusieurs lots à bâtir. | | | | | | | | | | | | | | | | | | | | | |
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| **ON DONNE :** | | | | | | | | | | | | | | | | | | | | | |
| **RES4i** | | | Extrait plan cadastral au 2000 | | | | | | | | | | | | | | | | | |  |
| **RES5i** | | | Extrait carte IGN avec parcellaire cadastral sans échelle connue | | | | | | | | | | | | | | | | | |  |
| **RES6i** | | | Fiches signalétiques de repères de nivellement | | | | | | | | | | | | | | | | | |  |
| **RES7i**  **RES8i** | | | Fiches signalétiques de repères géodésiques  Extrait carte IGN sans échelle connue | | | | | | | | | | | | | | | | | |  |
| **DR5.1 et DR5.2** Questionnaire | | | | | | | | | | | | | | | | | | | | |  |
| **DR6** | | | Extrait carte IGN sans échelle connue | | | | | | | | | | | | | | | | | |  |
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| **ON DEMANDE :** | | | | | | | | | | | | | | | | | | | | | |
|  |  | | Répondre précisément, en respectant les consignes, aux questions sur les documents réponses DR5 et DR6. | | | | | | | | | | | | | | | | | |  |
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| **ON EXIGE :** | | | | | | | | | | | | | | | | | | | | | |
|  | **•** | | La justification des résultats obtenus est correcte ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | L’identification des éléments sur les documents graphiques est réalisée avec soin et précision ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Les tableaux sont correctement complétés. | | | | | | | | | | | | | | | | | |  |
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**3.1.** En vous aidant de l’extrait de la carte IGN **RES5i**, identifier, en entourant en bleu par un cercle de diamètre D=2cm, l’emplacement de cette étude sur la carte IGN **(DR6)**

**3.2.** Placer, sur le **DR6**, dans le cas où c’est possible, l’emplacement des repères de nivellement **RES6i,** que vous indiquerez précisément par une croix au stylo bleu (vous indiquerez le matricule du point).

**3.3.** Récolter les informations principales des repères de nivellement **RES6i** et renseigner le tableau suivant :

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Matricule** | **Type** | **Ordre** | **Altitude  (……..)** | **Système légal** | **e  (…….)** | **n  (……)** |
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**3.4.** Placer, sur le **DR6**, dans le cas où c’est possible, l’emplacement des repères géodésiques **RES7i** que vous indiquerez précisément par une croix au stylo vert (vous indiquerez le matricule du point).

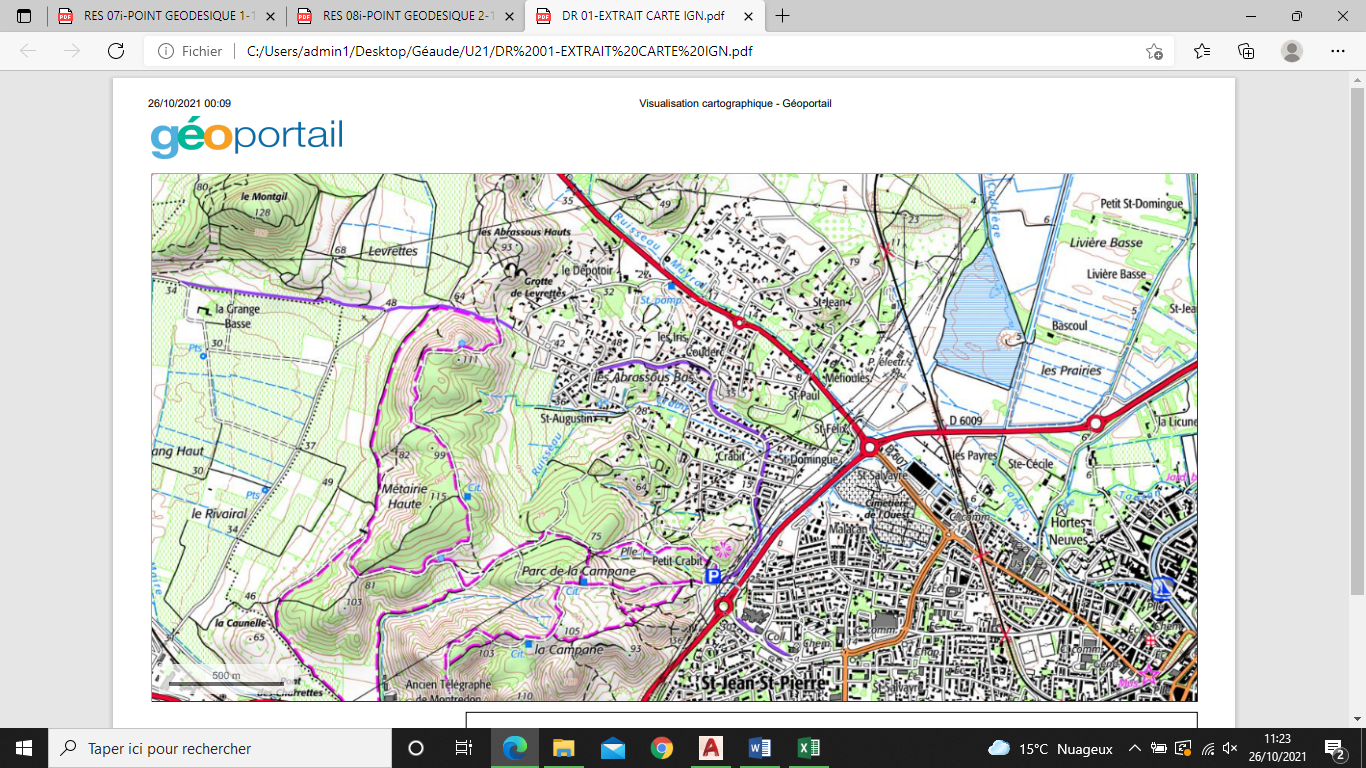
**3.5.** Récolter les informations principales des repères géodésiques **RES7i** et renseigner le tableau suivant :

|  |  |  |  |  |  |
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| **Matricule** | **Réseau** | **e (………..)** | **n (………..)** | **Altitude (………..)** | **Hauteur (………..)** |
|  |  |  |  |  |  |
| 1126216 b |  |  |  |  |  |
| **Système légal** | | ……………………………………………. | |  |  |
| **Projection légale** | | ……………………………………………. | |  |  |

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**3.6.** Quels repères utiliseriez-vous pour le rattachement altimétrique ?

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**3.7.** Quels repères utiliseriez-vous pour un géoréférencement planimétrique au décimètre ?

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**3.8.** À l’aide d’un croquis, schématiser altitude, hauteur ellipsoïdale et ondulation au point 1126216 b. Reporter les valeurs, distinguer les différentes surfaces. Déterminer par calcul la valeur de l’ondulation.

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| **ANALYSE D’UN DOSSIER** | | | | | | | | | | | | | | | | | | **ÉTUDE 4** | | | |
| **Analyser la méthode d’implantation** | | | | | | | | | | | | | | | | | | | | | |
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| **SITUATION PROFESSIONNELLE : Cabinet de Géomètre Expert** | | | | | | | | | | | | | | | | | | | | | |
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| Vous devez matérialiser les nouvelles limites des lots numéros 5, 6, 7 et 8. Vous disposez des coordonnées rectangulaires des stations existantes 55, 56, 47 et 62 (références) et des sommets des parcelles numérotées de 1 à 10. **Vous choisissez une méthode d’implantation.** | | | | | | | | | | | | | | | | | | | | | |
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| **RES9i** | | | Cahier des charges techniques et particulières | | | | | | | | | | | | | | | | | |  |
| **DT2** | | | Catalogue de matériels | | | | | | | | | | | | | | | | | |  |
| **DT3** | | | Croquis des lots 5, 6, 7 et 8 | | | | | | | | | | | | | | | | | |  |
| **DR7** | | | Document réponse | | | | | | | | | | | | | | | | | |  |
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|  |  | | Répondre précisément, en respectant les consignes, aux questions sur les documents réponses **DR7** | | | | | | | | | | | | | | | | | |  |
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|  | **•** | | L’article et la précision de l’implantation sont correctement identifiés et nommés ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | La liste de matériels choisis dans l’inventaire répond à la méthode d’implantation imposée ; | | | | | | | | | | | | | | | | | |  |
|  | **•** | | Le rôle de chacun des équipiers est correctement identifié. | | | | | | | | | | | | | | | | | |  |
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**4.1.** Afin de préparer l’implantation des nouvelles limites de propriété, relever dans le cahier des charges techniques et particulières, la précision attendue pour les points implantés. Préciser l’article correspondant.

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**4.2.** Afin de réaliser l’implantation des points 1 à 10, choisir et lister le matériel adéquat et nécessaire à prendre sur le terrain. Vous puiserez dans l’inventaire du cabinet répertorié en **DT2**. Vous compléterez la liste par du matériel non présent dans l’inventaire en **DT2.**

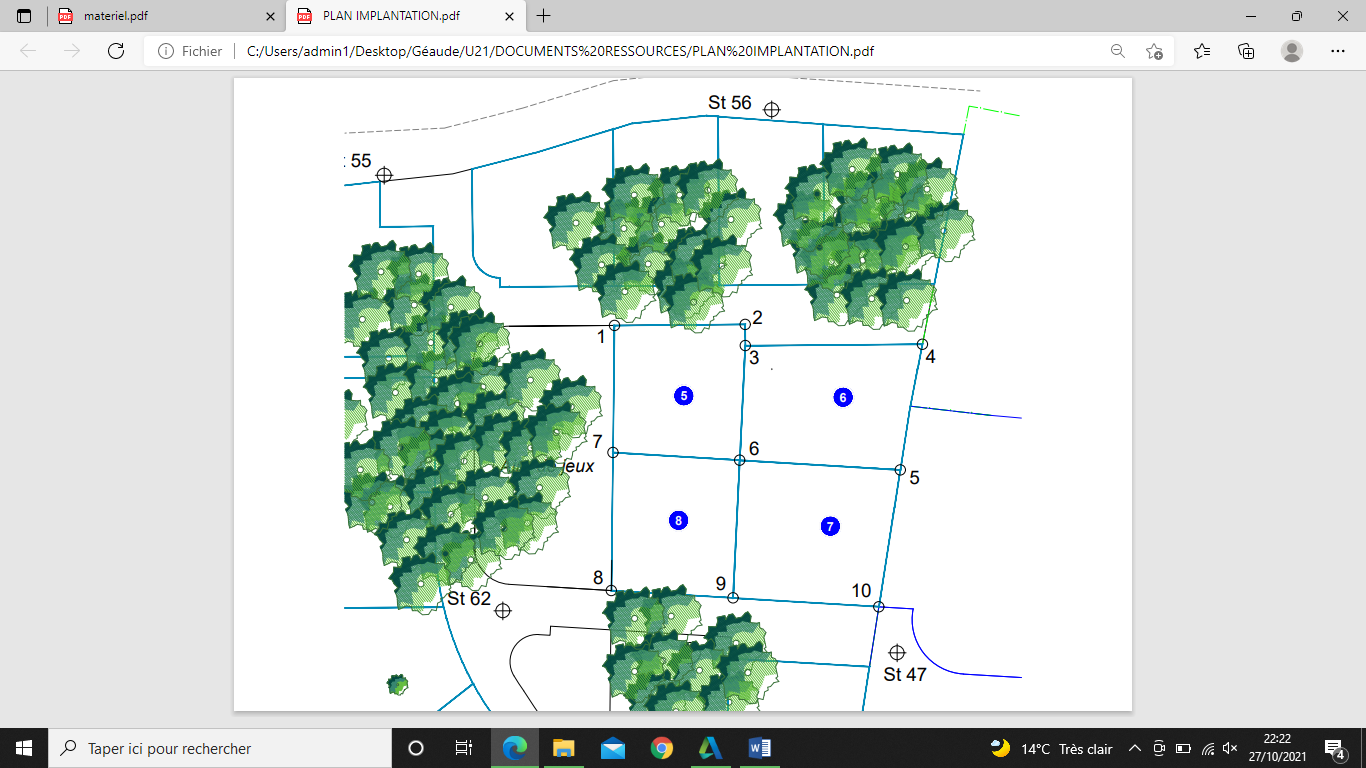
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**4.3.** Énoncer la composition de l’équipe de terrain et le rôle de chacun lors d’une implantation.

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