

## PLANNING REVIEW OF ZONING ISSUES

### What does the Planning Department review?

**Board of Municipal and Zoning Appeals (BMZA) actions:** The Zoning Ordinance of Baltimore City requires the Planning Department staff to review and comment on all conditional uses (zoning appeals) and conversion actions. Additionally, the Planning Department staff may respond to any other BMZA action of special interest to the Department.

**City Council Ordinances:** Article 66B (State enabling legislation regarding land use), and/or the Zoning Ordinance of Baltimore City requires that the Planning Commission review zoning changes, Planned Unit Developments (PUD), conditional uses requiring an ordinance, and Zoning Ordinance text amendments. The Planning Commission is a publicly appointed body and must make their decisions at a public hearing. They make a formal recommendation to the City Council. Planning staff reviews actions and makes a recommendation to the Commission.

### What does Planning require as part of the review process?

#### TECHNICAL REVIEW

- ◆ Staff reviews the request to insure that what is proposed matches the zoning request. Sometimes an applicant has not selected the appropriate land use category, has not included all the variances required to complete the project, or requires a different review process.
- ◆ Is the request allowed in accordance with Article 66B? This is State enabling legislation.

# WELCOME TO

# HELL

## Ok, not *really*...

- > Housekeeping: Books, E-mail, and HardHats; MyMail Account  
Next Week's Logistics
- > Review: Worksheet #1;
- > **Allen:** *Chapter 1-- Making Buildings;  
Building System Categories, IBC, and UL*
- > Exercise: Building Code Restrictions (AllenX, pp. 2-4);
- > Reading: Foundations (Allen, Chapter 2);

**Next Week: GETTING DIRTY!**

**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

... 1. **LOOK** at the room around you.

Identify ten (10) materials, fixtures, or fittings which were likely specified by Architects or consulting Engineers in the design of this building:

... paint, ceiling tile, window frames, door frames, wall base, wall board...

... light fixture, heating fixture, glass, air vent, carpet, door handle...

&c

**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

... 2. Identify six (6) more:

... electrical outlets, wood door slab, light switches, conduit,  
signage, metal security grating, door hinges, ...

*If it's nailed down, it's likely something to be specified by the Architect or her/his consultants.*

**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

... 3. Which material objects can you see which might typically *not* be specified by Architects or consulting Engineers during the design of a building?

... Furniture (chairs, desk, tables) --

*although sometimes these are specified by Architects!*

... Applied decoration (pictures, calendars, notices) --

*although sometimes these are specified by Architects!*

... Incidental Fittings (blackboard, trashcans) --

*although sometimes these are specified by Architects!*

**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

... 4. Building materials are typically installed within systems, which are complex combinations of different materials, fixtures, and fittings. Identify at least six visible within this room:

Fenestration (Window System);

Door/Hardware (Door Panel, Hinges, Frame, Closer, &c);

AC (Diffusers + Ducts);

Interior Wall System;

Electrical Power;

Structural System;

Heating (Baseboard);

Exterior Wall System;

Electrical Lighting;

Finish Ceiling System;

Comm/Security System...

**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

... 5. Which of these systems might typically be specified by an Architect? By an Engineer?

Fenestration - ARCH

Door/Hardware - ARCH/HWR

AC (Diffusers + Ducts) - MECH

Interior Wall System - ARCH

Electrical Power - ELEC

Structural System - STRUCT

Heating (Baseboard) - MECH

Exterior Wall System - ARCH

Electrical Lighting - ELEC.

Finish Ceiling System - ARCH

Comm/Security System - ELEC

**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

What's the moral of the story...





**Last Week:** *What Do You Know When You See What You See?*

*Worksheet #1*

What's the moral of the story?

*Success in any profession lies in a willingness to observe accurately and to organize your observations in appropriate categories.*

*Success in the Architectural Profession requires observation both of **visual data & abstract principles**, and the relationship between the two.*

## **This Week:** *Making Buildings*

You were asked for today to read the first chapter in Allen's big tome, which is titled in a somewhat aggrandized fashion.

What comprises "making buildings?"

## **This Week:** *Making Buildings*

What comprises “making buildings?”

### **Designing Buildings**

### **Choosing Building Systems**

- > Constraints
- > Information Resources
- > The Work of the Design Professional

**This Week:** *Making Buildings*

## **Designing Buildings**

> Who is involved?

The answer is non-trivial, since the dynamics of the the entire process depends upon the particular characteristics of the project participants.

*“There’s one on every project...”*

**This Week:** *Making Buildings*

## **Designing Buildings**

> Who is involved?

Client

Design Professionals (and related consultants)

Regulatory Agencies

Financiers

Construction Team

Vendors / Manufacturers

Project Expeditors

Users and Inhabitants

... and the wider community and environmental context.

**This Week:** *Making Buildings*

## **Choosing Buildings**

> Constraints

Legal Constraints

Design Constraints

Programmatic Constraints

In the context of this week's reading, the most significant initial constraints upon the initial building design are

... **Zoning** and **Building Code**

**This Week:** *Making Buildings – Constraints*

## **Zoning and Building Code**

What is the difference?

## **This Week:** *Making Buildings – Constraints*

### **Zoning**

Zoning are laws, typically passed and enforced at the level of the municipality or of the most local jurisdiction, which describe how a project may participate in the urban design of its location.

**Bulk** (Building Height, Required Yards, Setbacks)

**Use** (Permitted types of functions within a specific zone)

**Density** (How much “stuff” can be built: Number of Units,  
Floor Area Ratio)

*Other issues typically covered include Signage, Parking, Processes for Appeal, and Penalties for Violations.*



**This Week:** *Making Buildings – Constraint*    **Zoning Code**

**(See next PDF)**

**This Week:** *Making Buildings – Constraints*

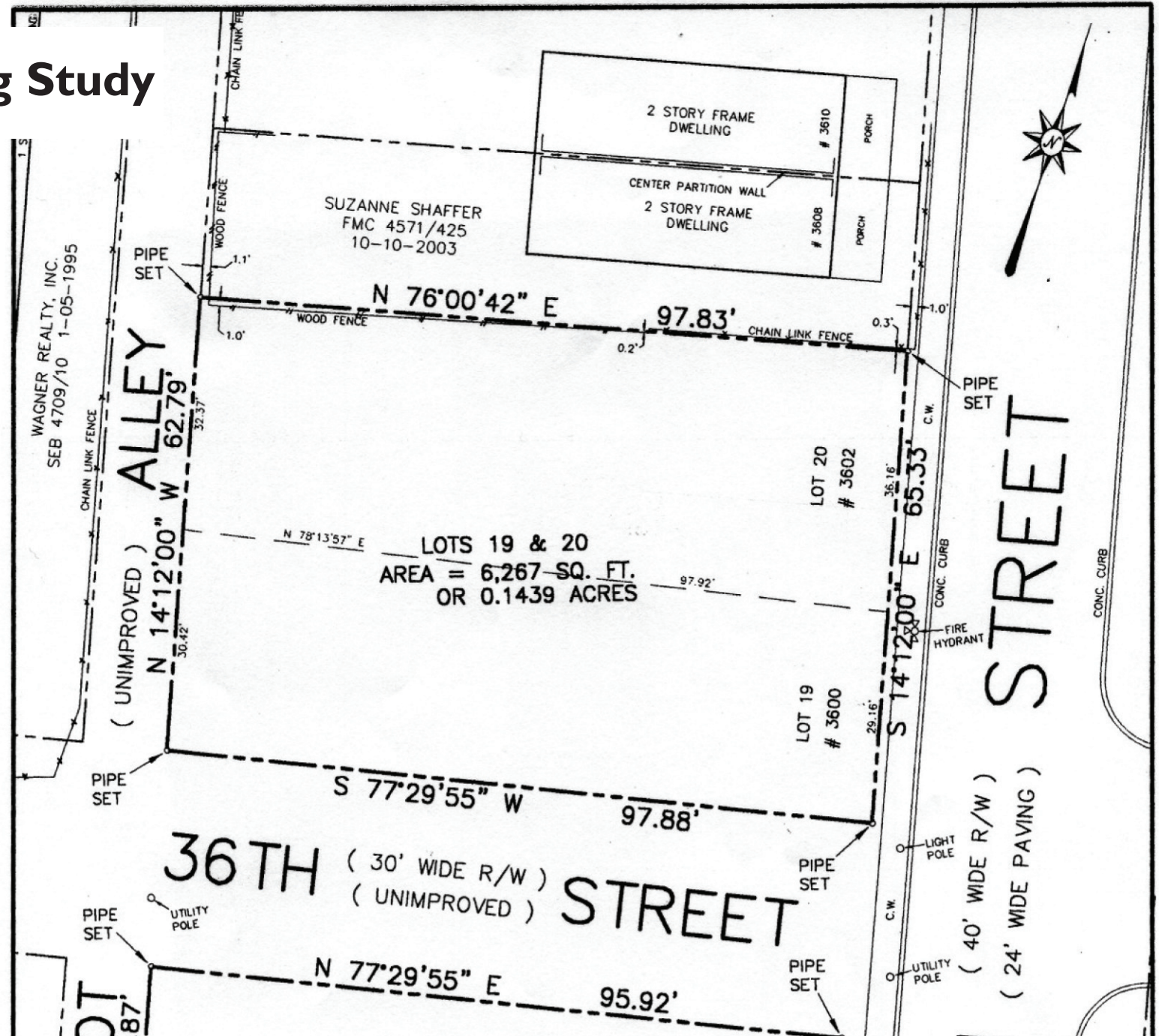
## **Zoning**

Why do we have Zoning in the first place?

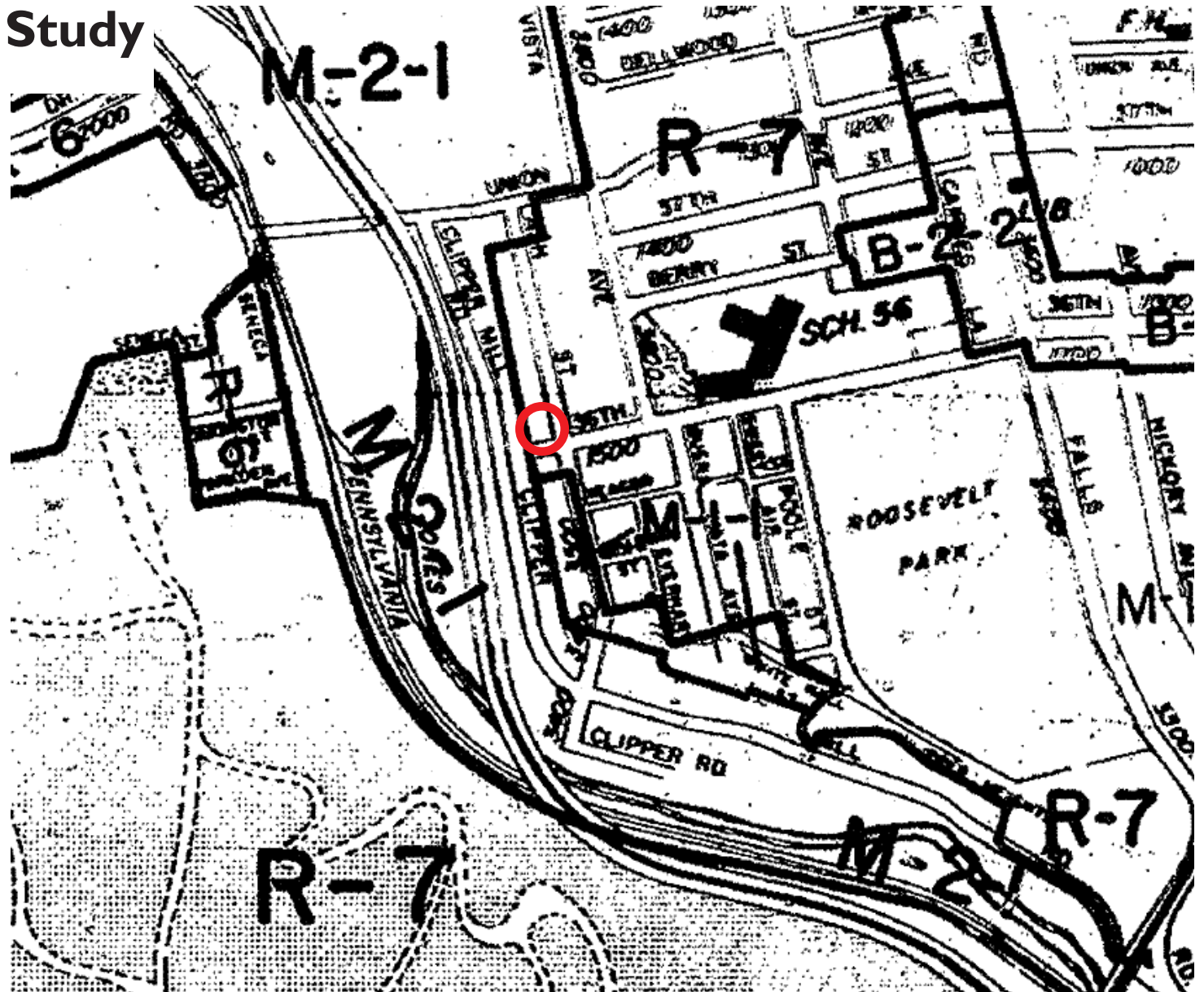
When did Zoning codes arise? Why?

How does Zoning affect new projects today?

## Example Zoning Study



## Example Zoning Study



**Example Zoning Study: See Baltimore Zoning R-7**

## ZONING ANALYSIS

**LOT LOCATION** 3600 ASH STREET  
BLOCK 3518A, LOTS 19 + 20 [CONSOLIDATED 8/07]  
(WARD 13, SECTION 3)

**LOT SIZE** 6,267 SF (0.1439 ACRES)

**OWNER:** CLIPPER CREST LLC. / JEREMY KARGON (TEL. 443-739-2886)  
3418 ROLAND AVENUE, BALTIMORE, MD 21211

**CURRENT ZONING:** R-7

**PROPOSED USE:** MULTIFAMILY, DETACHED DWELLING  
**ACCESSORY USE:** COVERED PARKING (BELOW DWELLING UNITS)

### LOT AREA AND COVERAGE

**MINIMUM LOT AREA/DWELLING:** 1,100 SF/ DWELLING UNIT [§4-1006a]  
**ALLOWABLE UNITS:** 5 DWELLING UNITS (PER 6,267 SF)  
**PROPOSED UNITS:** 3 DWELLING UNITS + COMMONS

**MAXIMUM LOT COVERAGE:** PER FAR [§4-1006a]  
**PROPOSED LOT COVERAGE:** 2,214 SF (37%)  
(COVERAGE INCLUDES EXTERIOR,  
COVERED SPACES, PORCHES, AND STAIRS)

**TOTAL DISTURBED AREA:** ~ 2,967 SF

2,214sf BUILDING FOOTPRINT; 492sf DRIVEWAY; 261sf EXTERIOR PAVING.
--

**MAXIMUM ALLOWABLE BUILT AREA:** 7,520 SF (PER FAR 1.2: §4-1006a)  
**PROPOSED BUILT AREA:** 5,264 SF (TOTAL BUILT AREA)

3,218 SF (TOTAL LIVING AREAS) 2,046 SF (AUXILIARY PARKING)
---

### YARDS, SETBACKS, AND BULK [§4-1007]

**FRONT:** AS PER ADJACENT HOUSE  
**SIDES:** 15'  
**REAR:** 24'-6" (25' LESS 2% REAR YARD REDUCTION - §3-208)  
[REAR SETBACK TO BE MEASURED FROM 1/4 WIDTH OF ALLEY PER §3-207c]

**ALLOWABLE BUILDING HEIGHT:** AS PER FAR [§4-1008]  
**PROPOSED BUILDING HEIGHT:** 25' TO CORNICE AT STREET SIDE  
(~38' RELATIVE TO REAR GRADE DUE TO SLOPE)  
HIGH POINT: 40' RELATIVE TO REAR GRADE DUE TO SLOPE

### OFF-STREET PARKING

**REQUIREMENT:** ONE FOR EACH DWELLING UNIT; 3 TOTAL  
**PROPOSED:** 3 COVERED, ENCLOSED PARKING SPACES

### ADDITIONAL SITE INFORMATION

**FLOODPLANE:** LOT IS NOT IN A FLOOD PLANE (Area X, White, "Not in Flood Plane")  
(cf: PANEL 240087 0006 D, Dated 09-30-1988)

**URBAN RENEWAL:** LOT IS NOT IN AN URBAN RENEWAL AREA  
**HISTORIC DISTRICT:** LOT IS NOT IN A HISTORIC DISTRICT  
**WETLANDS/CRITICAL AREA:** LOT IS NOT IN A WETLANDS OR CRITICAL AREA

## CONSTRUCTION TYPE

[AS PER IBC 2000]

### USE CLASSIFICATION:

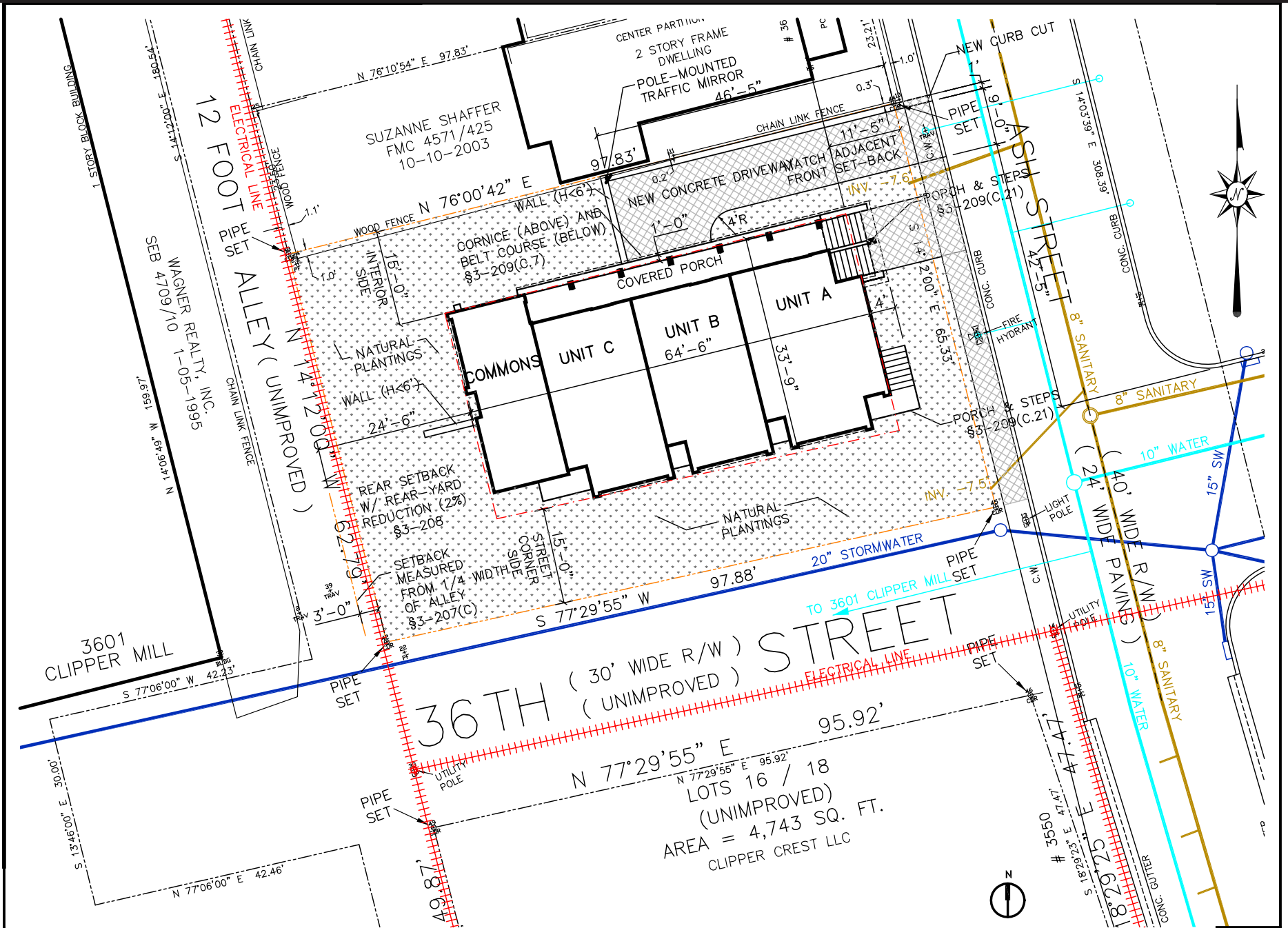
R-2 (MULTI-FAMILY DWELLING); U (INCIDENTAL USE: PRIVATE GARAGE  
<3000' PER §406.1.2)

### CONSTRUCTION TYPE:

OCCUPANCY R-2: TYPE V-B (ALL MATERIALS, UNPROTECTED)  
OCCUPANCY U, WALLS & FLOORS: TYPE II-B (NON-COMBUSTIBLE MATERIALS,  
UNPROTECTED)

**GENERAL NOTES: ZONING & CONSTRUCTION**

**3**



3600/3602 ASH STREET [Block 3518A, Lots 19+20] SITE PLAN: IMPROVEMENTS AND EXISTING UTILITIES, 1" = 10'

## **This Week:** *Making Buildings – Constraints*

### **Zoning**

Although from the context of “Materials,” Zoning itself has relatively little relevance, from the perspective of architectural planning, Zoning is the Big Kahuna:

*Most of a project’s political and urban dimension, as well as its economic feasibility, will relate to the legal framework imposed by its Zoning.*



**This Week:** *Making Buildings – Constraints*

## **Building Codes**

Most important quasi-legal framework for conceiving of a building in the literal, material sense.

*Also administered by local jurisdiction, with additional legal overlays at the State and Federal level.*

> Examples? (Accessibility, Toxicity, Technology Incubation)

What do these examples suggest to us about the very reason we have building codes in the first place?

## **This Week:** *Making Buildings – Constraints*

### **Building Codes**

Building Codes exist to assure a minimum baseline of construction standards which assure **Public Health and Safety**.

(In theory.)

Since their conception, additional factors now influence the development of Building Codes and their use:

- > Commercial and Manufacturing Interests
- > Professional Interests
- > Insurance Interests
- > Political Interests
- > “Code Industry” and Publishing Industry Interests

## **This Week:** *Making Buildings – Constraints*

### **Building Codes**

Although building codes have historically varied by locale, depending upon regional construction practices, the trend over the last twenty years has been towards consolidation under a single, nation-wide code, with local variation controlled by amendments passed at the state or city/county level.

Currently, the “International Building Code” is that which is most often cited throughout the United States.

(“International” means USA!)

## **This Week:** *Making Buildings – Constraints*

### **Building Codes**

Yet other bodies still maintain their independence. National Fire Protection Association (NFPA) still maintains a separate code which is used often by local fire marshals to determine sprinkler and life safety criteria.

Additional codes having to do with Accessibility are typically Federally-mandated codes which are reinforced by additional requirements at the STATE level. Examples include UFAS, Fair-Housing, and ADA.

**This Week:** *Making Buildings – Constraints*

## **Building Codes -- Back to IBC**

It is important to get some contact time with the categories and concepts of IBC. Basically, the categories may be listed this way:

**Occupancy Groups**

**Construction Classification**

**Allowable Area / Allowable Height**

**Fire-Resistance Rating**

**Fire Separation**

**Fire Separation Distance**

Other related terms: Means of Egress, Occupancy, &c.

**This Week:** *Making Buildings – Constraints*

## **IBC Occupancy Groups**

Roughly, this corresponds to the function of the building, what the building is used for. Naturally, most buildings have a mix of functions; in some cases, different functions might be considered “accessory” to a single main function.

Examples?

In other cases, different building functions need to be considered as different “Occupancies,” even within a single building.

**This Week:** *Making Buildings – Constraints*

## **IBC Occupancy Groups**

How does “Occupancy” relate to Life-Safety concerns?

**This Week:** *Making Buildings – Constraints*

## **IBC Occupancy Groups**

How does “Occupancy” relate to Life-Safety concerns?

***Each particular “Occupancy” or function has related hazards, which require different consideration with regard to fire protection, egress, and human use.***



## **This Week:** *Making Buildings – Constraints*

### **IBC Occupancy Groups**

<b>Assembly</b>	A-1... A-5
<b>Business</b>	B
<b>Educational</b>	E
<b>Factory</b> (Industrial)	F-1,2
<b>High Hazard</b>	H-1... H-5
<b>Institutional</b>	I-1... I-4
<b>Manufacturing</b>	M
<b>Residential</b>	R-1... R-4
<b>Storage</b>	S-1,2
<b>Utility</b>	U

**See IBC Table 503 *Allowable Height and Building Area***

(Section 506:  
Area Modifications)

**This Week:** *Making Buildings – Constraints*

## **Construction Classification**

- Type I**    **Non-Combustible** (Heavy Protection)
- Type II**   **Non-Combustible** (Light or no Protection)
- Type III**   **Non-Combustible Exterior Walls Only**
- Type IV**   **Heavy Timber**
- Type V**    **Combustible and Miscellaneous**

## **This Week:** *Making Buildings – Constraints*

### **Construction Classification**

<b>Type IA,B</b>	<b>Non-Combustible</b>	Concrete, Fire-Proofed Steel
<b>Type IIA,B</b>	<b>Non-Combustible</b>	Fire-Protected Steel, Un-Protected Steel
<b>Type III</b>	<b>Non-Combustible Exterior Walls Only</b>	Masonry or Treated Wood Walls, Wood or Steel Floor Assemblies
<b>Type IV</b>	<b>Heavy Timber</b>	Thick, Massive Wood Beams
<b>Type V</b>	<b>Combustible</b>	Wood framing of any kind

**See IBC Table 601 Fire-Resistance Rating**

**See Table 602 Fire-Resistance / Fire Separation**

**See Tables 705.4, 706.3.9**

**Fire Resistance Rating Requirements: Fire Wall, Fire Barrier**

**This Week:** *Making Buildings – Constraints*

## **Building Codes -- Fire-Resistance Rating**

So what does this mean?

... from a material standpoint?

... from the point of view of the architect?



## **This Week:** *Making Buildings -- Constraints*

### **Building Codes -- Fire-Resistance Rating**

Fire-Resistance is a material property which describes that material's resistance to combustion and the transfer of heat.

Fire-Resistance is also a property of an ASSEMBLY of materials, including both structural elements and non-structural, protective materials.

In the context of the Building Code, Fire-Resistance Ratings are typically “laboratory-determined” figures which have been assembled by *insurance companies* in the interest of guiding decisions concerning material choice. **Underwriters' Laboratories (UL)** is the best-known organization which tests and publishes Fire-Resistance Ratings for different materials and assemblies.

## **This Week:** *Making Buildings – Constraints*

### **Building Codes -- Fire-Resistance Rating**

Fire-Resistance is a material property which describes that material's resistance to combustion and the transfer of heat.

Fire-Resistance is also a property of an ASSEMBLY of materials, including both structural elements and non-structural, protective materials.

In the context of the Building Code, Fire-Resistance Ratings are typically “laboratory-determined” figures which have been assembled by *insurance companies* in the interest of guiding decisions concerning material choice. **Underwriters’ Laboratories (UL)** is the best-known organization which tests and publishes Fire-Resistance Ratings for different materials and assemblies.

**This Week:** *Making Buildings – Constraints*

## **Building Codes -- Fire-Resistance Rating**

Construction Classification is closely related to Fire-Resistance Rating. How?

Refer again to IBC Table 601

## Building Code Sheet Example

### BUILDING CODE ANALYSIS

[AS PER IBC 2000]

USE CLASSIFICATION:

R-2 (MULTI-FAMILY DWELLING); U (INCIDENTAL USE: PRIVATE GARAGE <3000' PER §406.1.2)

CONSTRUCTION TYPE:

OCCUPANCY R-2: TYPE V-B (ALL MATERIALS, UNPROTECTED)  
OCCUPANCY U, WALLS & FLOORS: TYPE II-B (NON-COMBUSTIBLE MATERIALS, UNPROTECTED)

SEPARATION BETWEEN USES:

R-2 OCCUPANCY AND ITS INCIDENTAL USE WILL BE SEPARATED BY A 2-HR FLOOR/CEILING ASSEMBLY

CLASSIFICATION OF PRIVATE GARAGE: (§406.3)

INCIDENTAL USE "PRIVATE GARAGE" WILL CONFORM TO REQUIREMENTS FOR OPEN GARAGE

HEIGHT AND AREA LIMITATIONS (TABLE 503)

THE PROPOSED BUILDING WILL BE SPRINKLERED PER IBC 2000 903.3.1.1

MAXIMUM 3 STORIES (PER §504.2)  
MAXIMUM 60 FEET (PER §504.2)  
MAXIMUM 7,000 SF/FLOOR

PROPOSED HEIGHT AND AREA

3 STORIES: 2 STORY DWELLINGS ABOVE 1 STORY PRIVATE GARAGE  
~40 FEET RELATIVE TO LOWEST GRADE  
NO MORE THAN 2,046 SF/FLOOR

PROPOSED TOTAL AREA

5,264 ON ALL FLOORS, INCLUDING PRIVATE GARAGE

FIRE RESISTANCE RATING (TABLE 601)

OCCUPANCY R-2: TYPE V-B (NO RATING REQUIRED)  
OCCUPANCY U, WALLS & FLOORS: TYPE II-B (NO RATING REQUIRED)

FIRE RESISTANCE RATING SEPARATION DISTANCE (TABLE 602)

USE GROUP R-2: NO RATING REQUIRED FOR EXTERIOR WALLS WITH FIRE-SEPARATION DISTANCE >10'

PROPOSED FIRE SEPARATION DISTANCE: 15' (MINIMUM)

FIRE RESISTANCE RATED CONSTRUCTION (SECTION 700)

INTERIOR FIRE PARTITIONS BETWEEN DWELLING UNITS

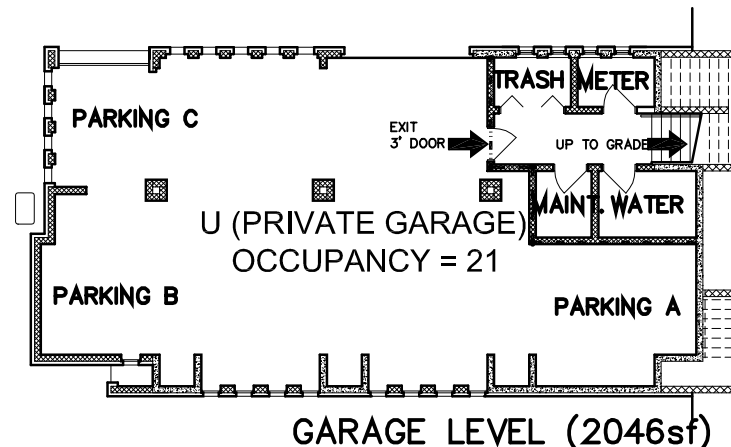
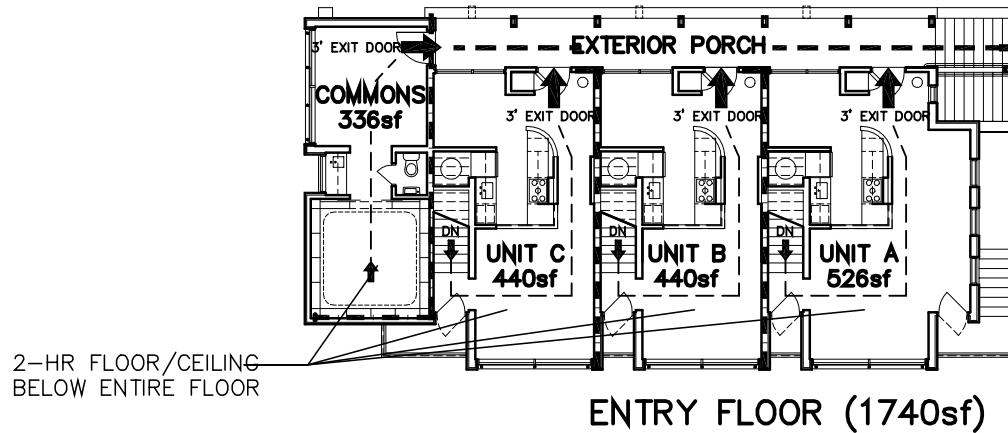
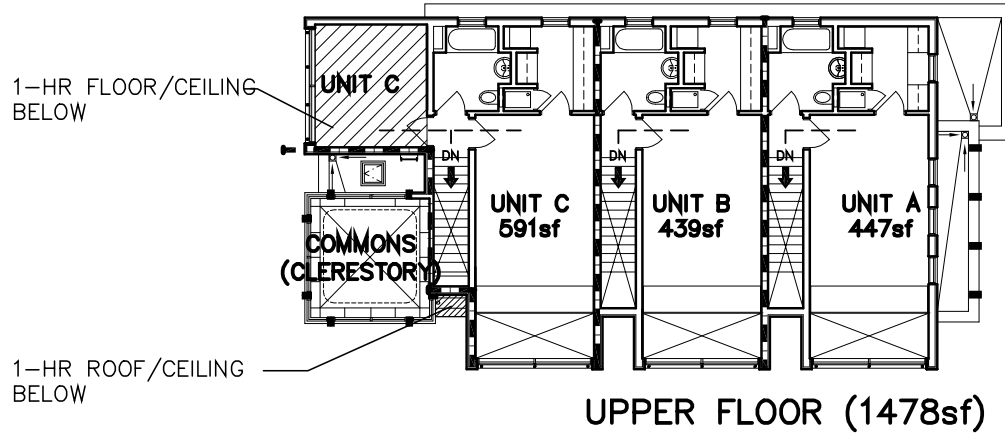
REQUIRED: 1/2 HOUR (PER 708.3 EXCEPTION 2)  
PROPOSED: 1 HOURS

THERE ARE NO INTERIOR CORRIDORS BETWEEN DWELLING UNITS

FIRE ALARM, EXIT LIGHT LOCATION:

SEE E01, ELECTRICAL PLANS

## Building Code Sheet Example



**This Week:** *Making Buildings – Constraints*

## **Building Codes -- Other Constraints**

As mentioned before, Accessibility is covered by Federal and State laws. Federal guidelines are the strongest and most likely to be enforced in case of challenge; State laws can only make Federal requirements stronger still.

Accessibility for all Housing is covered by Fair Housing  
Accessibility for Federally-funded housing is covered by UFAS  
Accessibility for public areas is covered by ADA.

**This Week:** *Making Buildings – Constraints*

## **Building Codes -- Fair Housing**

Fair Housing is the law!

Fair Housing relates to... Housing!

Fair Housing determines which units are “covered,” how one must provide access to and within those units, and which accommodations must be made now and for future alterations. Laws and compliance are handled by the Department of Justice.

[www.usdoj.gov/fairhousing](http://www.usdoj.gov/fairhousing)

**This Week:** *Making Buildings – Constraints*

## **Building Codes -- UFAS**

Uniform Federal Accessibility Standards

UFAS tends to be the reference for HC-Accessible units, as opposed to potentially convertible units. UFAS covers housing and housing-related uses.

<http://www.access-board.gov/ufas/ufas-html/ufas.htm>



**This Week:** *Making Buildings – Constraints*

**Building Codes -- ADA**

Americans with Disabilities Act

Covers buildings which are public in nature, including workplaces.

<http://www.ada.gov>

## **This Week:** *Making Buildings – Information Resources*

### **Standards**

ASTM (Materials)

ANSI (Industrial Products)

### **Trade Associations**

Steel

Wood

Masonry

Everything!

### **Construction Specifications**

CSI / Masterformat

**This Week:** *Making Buildings – Information Resources*

## **CSI MasterFormat**

Since the passing of the era of Isaac Newton and Albert Einstein, only MasterFormat remains to describe the workings of nature in a clear, easily-indexed numerical scheme.

No joke about it: Your success in the field of Construction, including Architecture or any of the other design fields, depends upon your awareness of your place in the CSI universe.

**This Week:** *Making Buildings – Information Resources*

## **CSI MasterFormat -- Old Style**

16 divisions, comprising the full scope of purchase and activities for any building project:

Division 01	General Requirements
Division 02	Site Work / Existing Conditions
Division 03	Concrete
Division 04	Masonry
Division 05	Metals
Division 06	Wood, Plastics, and Composites
Division 07	Thermal and Moisture Protection
Division 08	Doors and Windows
Division 09	Finishes
Division 10	Specialties
Division 11	Equipment
Division 12	Furnishings
Division 13	Special Construction
Division 14	Conveying Equipment
Division 15	Mechanical
Division 16	Electrical

**This Week:** *Making Buildings – Information Resources*

## **CSI MasterFormat -- Old Style**

Each division is subdivided, for example:

- 04000 Masonry
  - 04100 MORTAR
  - 04200 UNIT MASONRY
    - 04210 BRICK
    - 04220 CONCRETE
    - 04240 CLAY TILE
    - 04250 CERAMIC VENEER
    - 04270 GLASS
    - 04280 GYPSUM
  - 04400 STONE
  - 04500 MASONRY RESTORATION

There's no way to memorize them all, but you should be familiar with the sixteen overall divisions, and know where to go for research.

## This Week: Making Buildings – Information Resources

### CSI MasterFormat -- New Style

04 0000	MASONRY
04 0100	Maintenance of Masonry
04 0120	Maintenance of Unit Masonry
04 0120.51	Unit Masonry Maintenance
04 0120.52	Unit Masonry Cleaning
04 0120.91	Unit Masonry Restoration
04 0120.93	Testing and Sampling Brick Units Restoration
04 0140	Maintenance of Stone Assemblies
04 0140.51	Stone Maintenance
04 0140.52	Stone Cleaning
04 0140.91	Stone Restoration
04 0150	Maintenance of Refractory Masonry
04 0160	Maintenance of Corrosion Resistant Masonry
04 0170	Maintenance of Manufactured Masonry
04 0500	Common Work Results for Masonry
04 0513	Masonry Mortaring
04 0513.16	Chemical Resistant Masonry Mortaring
04 0513.19	Epoxy Masonry Mortaring
04 0513.23	Surface Bonding Masonry Mortaring
04 0513.26	Engineered Masonry Mortaring
04 0513.29	Refractory Masonry Mortaring
04 0513.91	Masonry Restoration Mortaring
04 0516	Masonry Grouting
04 0516.16	Chemical Resistant Masonry Grouting
04 0516.26	Engineered Masonry Grouting
04 0519	Masonry Anchorage and Reinforcing
04 0519.13	Continuous Joint Reinforcing
04 0519.16	Masonry Anchors
04 0519.26	Masonry Reinforcing Bars
04 0519.29	Stone Anchors
04 0523	Masonry Accessories
04 0523.13	Masonry Control and Expansion Joints
04 0523.16	Masonry Embedded Flashing
04 0523.19	Masonry Cavity Drainage, Weepholes, and Vents

---

## **This Week:** *Making Buildings – Choosing Building Systems*

### **What do Architects Do?**

Among other things, Architects perceive ordered choices from a disordered world.

- > What will give the required functional performance?
- > What will give the desired aesthetic result?
- > What is possible legally?
- > What is most economical?
- > **How can we build in a sustainable manner?**

[per Allen, p. 12]

**This Week:** *Making Buildings – Choosing Building Systems*

**What is “Sustainability” in the context of Materials?**

> What is Sustainability in any context?



**This Week:** *Making Buildings – Choosing Building Systems*

## **What is “Sustainability” in the context of Materials?**

> What is Sustainability in any context?

“Meeting the needs of the present generation without compromising the ability of future generations to meet their needs.”

## **This Week:** *Making Buildings – Choosing Building Systems*

### **How might choosing Architectural Materials affected practical implementation of sustainable strategies?**

- > Origin and Manufacture of Materials for a Building
- > Building Construction (Transportation, Methods, Waste)
- > Building Use and Maintenance
- > Building re-use or demolition
- > Other concerns?

## **This Week:** *Making Buildings – Choosing Building Systems*

One final thought:

*Although “Sustainability” will not be an explicit focus this semester, in this particular class, the awareness that our architectural designs affect both present and future society should never be too far from our considerations.*

## Worksheet 2!

pp. 2,3, & 4 in Allen X

**This Week:** *Making Buildings*

**Are we through yet?**

- > Reading for next week: Allen, Chapter Two (Foundations)