



PLANNING COMMISSION

City of Holladay

June 25th, 2024

City Council Chambers – 4580 S. 2300 E. Holladay

City of Holladay

This public meeting will be held in-person and also transmitted via live video stream on the [City of Holladay webpage](#). Participation in a *public hearing* portion of this meeting can be accomplished in either of the following ways:

- During the meeting: address the Commission when the item is called by the Commission Chair
- Email: comments must be received by 5:00 pm on **06/25/2024** to the Community and Economic Development Department; cmarsh@holladayut.gov. Emailed comments will be read by the Commission Chair.

MEETING AGENDA

5:30 PM WORK SESSION – The Commission may discuss any or all agenda items. No decisions or voting to occur.

6:00 PM CONVENE REGULAR MEETING – Public Welcome & Chair Opening Statement

PUBLIC HEARING

1. “Brinton House” Historic Site Modification Permit— 1981 Murray-Holladay Road (R-M)

Review and consideration of a request by Applicant **Katie Thibodeaux**, representing Owner Roderick Enterprises, for modifications to a designated historic house and site. Item reviewed as an administrative, conditional use application as per provisions stated in Holladay Ordinance §13.08.040, §13.86.030 & §13.86.050 *File #24-2-05*

PLANNING COMMISSION TRAINING – Required Quarterly Training

ADJOURN

CERTIFICATE OF POSTING

I, Stephanie N. Carlson, the City Recorder of the City of Holladay, certify that the above agenda notice was posted on the City of Holladay bulletin board, the City website www.holladayut.gov, the Utah Public Notice website www.utah.gov/pmn, and was emailed to the Salt Lake Tribune and Desert News and others who have indicated interest.

DATE POSTED: Monday, June 24, 2024 at 10:00 am

*Stephanie N. Carlson MMC, City Recorder
City of Holladay*

Reasonable accommodations for individuals with disabilities or those in need of language interpretation service can be provided upon request. For assistance, please call the City Recorder’s office at 272-9450 at least three days in advance. TTY/TDD number is (801)270-2425 or call Relay Utah at #7-1-1



FILE#

ADDRESS:

DECISION TYPE:

LEGAL DESCRIPTION:

APPLICANT/REPRESENTATIVE:

SITE VICINITY MAP

PROPERTY OWNER:

ZONING:

GENERAL PLAN DISTRICT:

CITY COUNCIL DISTRICT:

PUBLIC NOTICE DETAILS:

REQUEST:

APPLICABLE REGULATIONS:

EXHIBITS:

Notes:

STAFF:



Request: **CONDITIONAL USE PERMIT – HISTORIC SITE MODIFICATION**
Project: “Brinton House” Historic Home and Site Modifications
Address: 1981 E Murray Holladay Rd
Zone: R-M
Applicant: Katie Thibodeaux, representing Roderick Enterprises
File No: 24-2-05
Notice: Mailed 05/24/2024; Hearing continued/open from 6/4/2024
Planner: Carrie Marsh

GOVERNING ORDINANCES:	13.03.020	CONDITIONAL USE- SUBMITTAL REQUIREMENTS
	13.08.040	CONDITIONAL USE PERMIT REVIEW/APPROVAL STANDARDS
	13.86	HISTORIC PRESERVATION

REQUIRED PLANNING COMMISSION ACTION TYPE

Administrative.

Public hearing required. PC shall make a motion of either, denial, approval or to continue. All motions require findings which support the decision. As directed by ordinance, applications shall be approved if the Land Use Authority finds Substantial Evidence of compliance with applicable approval standards and requirements. Holladay Ord. 13.08.040

EXCECUTIVE SUMMARY

The City of Holladay Code §13.86 addresses Historic Preservation within the City. This section of code designates sites and applies standards and additional uses specifically applicable to these sites. A conditional use permit is required for any modifications relating to the site or structure. Modifications are defined in §13.86.065 as:

“demolition or construction where a demolition or building permit is required. Modification also include substantial changes to landscape, fencing, or appearance of a historic site. Modification does not include minor changes to landscape, fencing, or appearance of a historic site such as painting the historic site substantially the same color, changes to flowerbeds, or trimming.”

Upon receipt of the application, it was reviewed by the Technical Review Committee and determined that the changes to the structure and site met the definition of modification within §13.86.065, requiring review by the Planning Commission for a Conditional Use Permit.

As designated in §13.86.050: SITE MODIFICATION, “*the Planning Commission may modify all yard, parking, landscaping, height, and other requirement of the zone in which the historic site is located, as necessary to fulfill the purposes of this chapter. In so doing, the nature and character of adjacent properties shall be considered to ensure that the health, safety, convenience, and general welfare will not be impaired. The Planning Commission may establish development criteria to control impacts associated with the heaviest permitted use the base zone, including but not limited to: noise, glare, dust, or odor.*”

BACKGROUND

Holladay has a number of historical properties and locations, though only five are designated within the City’s Code as Historical Sites. A historical overview article by Jacob Barlow is included in the packet



in

for review and give a broader understanding of the historical significance of the property.

The following points are a brief summary of the property's history:

- The David Branson Brinton House is significant for its association with the lives of three locally prominent historical figures: David Brinton, David Branson Brinton, Sr. and David Branson Brinton, Jr., all of who played important roles in the growth and development of Holladay, Utah, one of the state's earliest settlements.
- Among the settlers of 1848-49 was David Brinton (1814-1878) and his family. The Brintons had historically been builders and blacksmiths.
- The home was built in 1877 by David Branson Brinton.
- Added to the National Historic Register May 22 1978, #78002665

A two-level addition to the rear of the original structure was added in 1979 with a secondary entrance. This addition is concealed behind the original structure from the street, but is visible while traveling west on Murray Holladay Road and abuts the parking lot.

APPLICANT / PROPERTY SUMMARY

Applicant, Katie Thibodeaux, representing the property owner, is seeking to modify some elements of the structure and site known as the "David Branson Brinton Home" in §13.86.020 of the City of Holladay Code, located at 1981 E. Murray Holladay Road. The applicant is seeking to make the following modifications:

Existing Building:

1. Paint exterior window trim, railing, soffit, and fascia a darker color
2. Replace exterior doors on south (main) and east (side) entrances with black commercial/store glass doors,
 - a. **REVISION: Modifications to doors shown in revised submission with additional fill work for more traditional appearance with visual weight.**
3. Add entrance canopy to east entrance
 - a. **Clarified in previous meeting that "canopy" is a support beam, not canopy.**

Site Landscaping:

1. Tree removal/trimming
 - a. Remove two front trees
 - b. Trim mature trees on east, north, and south property lines
 - i. **REVISION: No tree trimming on property line trees as they are not on the property.**
2. Fencing to be removed and replaced
 - a. **REVISION: No fence replacement as fencing is not on property.**

Site Modifications:

1. Demolition of detached garage and carports
2. New detached garage on the rear corner of property
 - a. **REVISION: includes architectural detailing on new building that will match architectural features on historical structure and addition.**
3. Parking lot modifications – Remaining parking spaces meet requirements of spaces for office use.

TECHNICAL REVIEW COMMITTEE RECOMMENDATION

The Technical Review Committee (TRC) finds that the application for a conditional use permit for minor building and landscaping modification to a site listed on the Holladay Historic Preservation to be complete.

The TRC recommends the PC to hold the required public hearing (as required 13.08.040). Public comments made should be considered as they relate to the set approval standards and mentioned above. Additional considerations or conditions, if any, should be applied carefully and reasonably as per 13.08.040.F. The Holladay TRC has provided their suggesting findings and conditions to consider.

Suggested Findings:

1. Modifications to the building and site are considered to be substantial as defined by 13.86.050

2. Proposed modifications, overall, do not detract from the historic nature of the building's architecture.
3. The detached garage was built in 1953 and is not found to be relevant to the David Brinton House's formal historic designation.
4. The structure's rear addition was added in 1979 and while not an original part of the structure, there is a transition between the original structure and the addition.
5. Required on-site parking for the property's use is met

Suggested Conditions of Approval:

1. Painting of window trim, fascia, and railing to be dark paint, as proposed
2. Modern doors with traditionally styled fills for visual weight are considered appropriate
3. Landscaping plan showing replacement trees in accordance with Holladay code §13.77.060
4. Demolition of existing garage and carports appropriate as not historically relevant to the property
5. New garage design to feature architectural features found in the main home and 1979 addition.
6. No addition of lighting within the parking lot

SUGGESTED MOTION FORMAT:

"I motion the Holladay Planning Commission move to _____ (APPROVE, DENY, CONTINUE) the application for a Conditional Use Permit for a Historic Site Modification for the "David Branson Brinton Home", designated as a historic site by section 13.86.020 of the City of Holladay code, located at 1981 E. Murray Holladay Road. Based upon the findings that the application _____ (see above for staff suggested findings). This motion is subject to the following conditions _____ (see above for staff suggested conditions)"

Roderick HQ

Historical Site Changes

Building Changes:

Painting:

- Exterior Painting of windows, railing, soffit and fascia
- We are proposing to paint the existing window frame, handrail, soffit and fascia black color on the existing mansion and replacing the windows on the addition. All new windows on the addition will look exactly the same architecturally as they do now with mullions and curved arches.

Doors/Entrances:

- Currently the exterior doors are a yellow wood color.
- We are proposing to replace the South and East Entrances with Class A High End Store Front Glass Systems.

Landscape Changes:

Tree Removal and Replacement:

- A new landscaping plan has been provided and abides by the current landscaping code for Holladay City.

Garage Relocation:

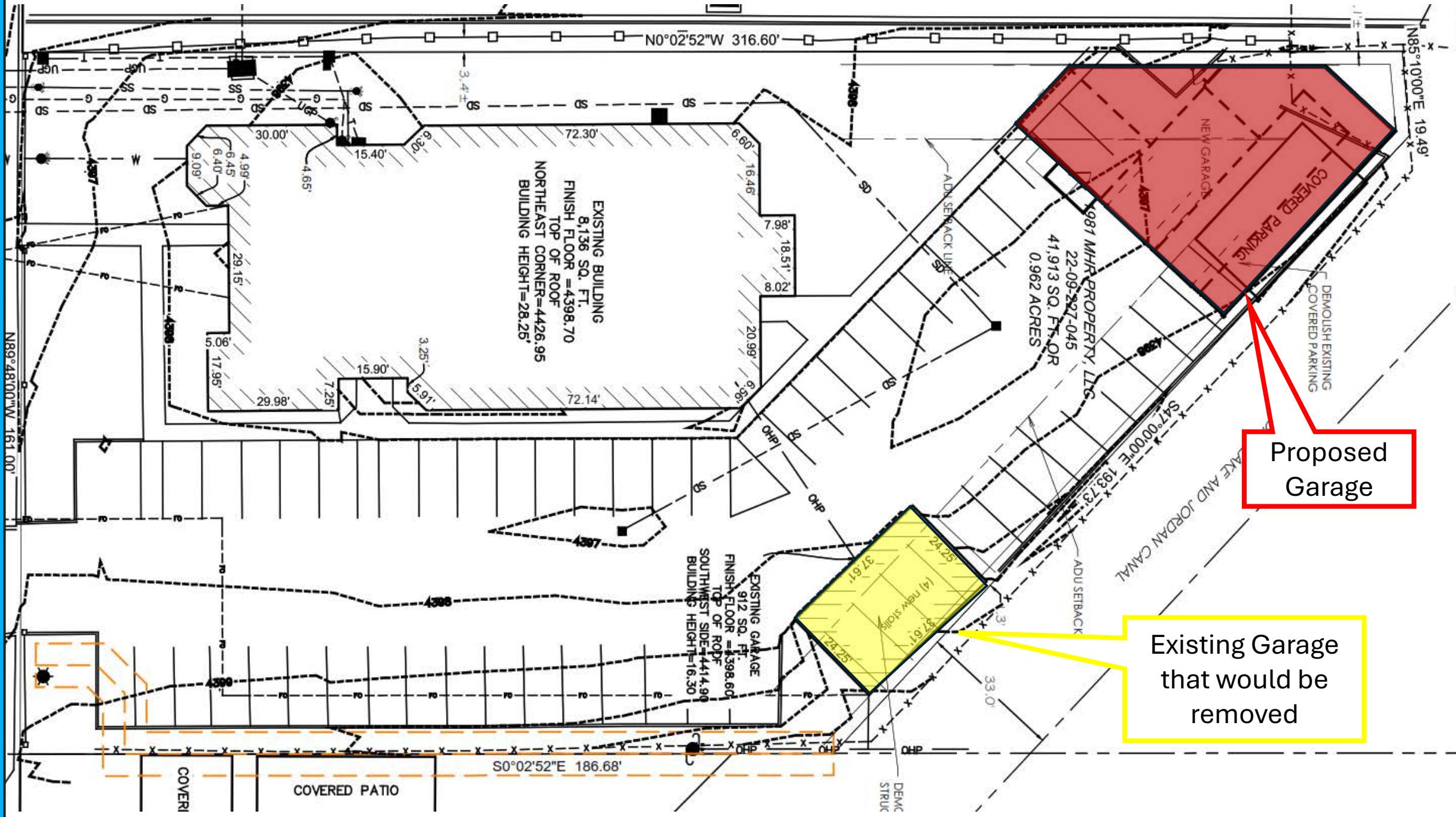
The Current garage can be seen from Murray Holladay Blvd and does not have and tie into the historical nature of the site. We would demo the existing garage and relocate in the NE corner of the property away from the view of Murray Holladay Blvd and construct with the same brick, roof and architecture as the existing office building.

Existing Condition:



Existing Condition:





EXISTING AND NEW LANDSCAPE AREA

SYMBOL SITE MATERIAL

EXISTING TREES TO REMAIN AND TO PROTECT

EXISTING TREES TO BE REMOVED

EXISTING TREE NOTES

TREE PROTECTION AND PRESERVATION

INTRODUCTION: THIS IS INTENDED TO GUIDE THE GENERAL CONTRACTOR AND SUB-CONTRACTORS CREWS AND OWNER IN THE PROTECTION OF TREES LOCATED ON PROJECT SITE, AND SHALL BE IN COMPLIANCE WITH FOLLOWING SPECIFICATIONS. ALL PEOPLE THAT WORK AROUND TREES ARE RESPONSIBLE TO PROTECT THE TREES FROM UNNECESSARY INJURY THAT WOULD DECREASE THEIR VALUE. TREE ROOTS OFTEN SPREAD 2-3 TIMES WIDER THAN THE DRIPLINE OF THE CANOPY AND 90% OF A TREE'S ROOTS ARE FOUND IN THE TOP 2 FEET OF SOIL. THESE FACTS ILLUSTRATE WHY IT IS SO IMPORTANT TO USE CARE WHEN WORKING NEAR EXISTING TREES.

A. TREE PROTECTION GUIDELINES FOR CONSTRUCTION SITES

PRIOR TO INITIATION OF DEMOLITION AND CONSTRUCTION WORK THAT WILL AFFECT TREES ON PROPERTY, THE FOLLOWING TREE PROTECTION PLAN SHOULD BE IMPLEMENTED, WHICH PROVIDES FOR THE FOLLOWING INFORMATION:

1. TREE PROTECTION PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO: PRUNING BRANCHES AND ROOTS, TEMPORARILY FENCING OFF AREA AROUND THE ROOTING ZONE, WRAPPING TRUNKS TO PREVENT WOUNDS, SPREADING WOOD CHIPS OR GRAVEL TO REDUCE SOIL COMPACTION, ENSURING PROPER TREE IRRIGATION IS PROVIDED THROUGHOUT THE TERM OF THE PROJECT, AND ADDING WELL-CONGESTED ORGANIC MATTER TO THE TREE'S GROWING LOCATION FOLLOWING CONSTRUCTION.
2. TREE ANTHILL REMOVAL SHOULD BE DONE IN AGREEMENT WITH LOCAL FORESTIE ISLAND MANAGEMENT PRACTICES (BMP), ANSI Z133.1, AND ANSI A300. DIRECTIONS PROVIDED IN AUTHORIZING PERMITS SHALL BE FOLLOWED.
3. ANY TREE TO REMAIN THAT IS IRREPARABLY DAMAGED DUE TO CONSTRUCTION ACTIVITIES SHALL BE REMUNERATED AT COST TO CONTRACTOR RESPONSIBLE FOR DAMAGES. THE VALUE OF ALL TREES TO REMAIN SHALL BE ESTABLISHED IN WRITING AND AGREED UPON BY ALL PARTIES INVOLVED PRIOR TO CONSTRUCTION ACTIVITIES.
4. ANY TREE ON PROPERTY AND ON ADJACENT PROPERTIES THAT ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES THAT ARE REPLACEABLE SHALL BE REPLACED WITH TREE OF SAME SPECIES, CALIBER SIZE AND SIMILAR SHAPE AT THE EXPENSE OF CONTRACTOR RESPONSIBLE FOR DAMAGE.
5. TREES BEING PRESERVED DURING ALL CONSTRUCTION ACTIVITIES SHALL HAVE A TREE PROTECTION ZONE (TPZ), WHICH IS NO LESS THAN THE WIDTH OF THE DRIPLINE OF THE TREE CANOPY, CLEARLY MARKED WITH A CONCRETE CHAIN LINK PROTECTIVE FENCE, OR OWNER APPROVED EQUIPMENT. PRIOR TO ANY CONSTRUCTION, CLEARING, DREDGING OR EXCAVATING, THE TPZ SHALL BE IDENTIFIED.
6. HEAVY EQUIPMENT SHALL NOT BE ALLOWED INSIDE THE TREE PROTECTION ZONE. ALL HEAVY EXCAVATIONS SHALL BE MADE BY EQUIPMENT FROM OUTSIDE OF THIS ZONE.
7. BUILDING MATERIAL, TOPSOIL, CHEMICALS, OR FILL SHALL NOT BE STOCKPILED IN THE TREE PROTECTION ZONE OR IN THE DRIPLINE OF ANY TREE THAT IS SCHEDULED FOR REMOVAL.
8. PROTECTION OF EXISTING TREES IN THE PROTECTION ZONE WILL BE DESIGNATED BY PLAN AND IN COORDINATION WITH BLUE STAKES OWNER, LANDSCAPE ARCHITECT AND/OR CITY URBAN FORESTER. THE SIZE AND SHAPE OF THE ZONE WILL DEPEND ON THE TREE SPECIES SENSITIVITY TO IMPACT, THE HEALTH AND AGE OF THE TREE, AND ROOT AND CROWN CONFORMATION AND CONSTRUCTION CONSTRAINTS.
9. TRENCHING SHOULD BE PERFORMED IN ACCORDANCE WITH THE STANDARDS LISTED ABOVE. WHEN LARGE SCAFFOLD ROOTS ARE ENCOUNTERED DURING TRENCHING, HAND DIGGING AND BRIDGING SHALL BE USED. IN SITUATIONS WHERE A ROOT HAS BEEN DAMAGED, A CLEAN CUT SHOULD BE MADE ON THE ROOT AT THE EDGE OF THE TRENCH, FOLLOWED BY TUNNELING. TUNNELING OR BORING SHOULD BE DONE WHENEVER POSSIBLE. TUNNELING OR BORING SHOULD BE DONE WITHIN THE TREE PROTECTION ZONE. TUNNELING OR BORING IN THE TREE PROTECTION ZONE MUST BE AT LEAST 2 FEET DEEP.
10. EXCAVATION INVOLVING ROOT CUTS SHOULD BE DONE RAPIDLY. CUTS ON TREE ROOTS SHALL BE SMOOTH AND CLEAN. THE TRENCH SHOULD BE BACKFILLED AS SOON AS POSSIBLE TO PREVENT THE EXPOSED ROOTS FROM DRYING OUT AND THE TREE SHOULD BE WATERED IMMEDIATELY. THE AREA TO REMAIN EXPOSED FOR MORE THAN FOUR TO SIX HOURS, MUST BE COVERED WITH BURLAP AND KEPT MOIST AT ALL TIMES.
11. FOR TREES WITH A TRUNK DIAMETER IN EXCESS OF SIX INCHES, TUNNELING OR BORING SHOULD REPLACE TRENCHING ACCORDING TO THE FOLLOWING MINIMUM DISTANCES FROM THE FACE OF THE TREE TRUNK IN ANY DIRECTION.
12. THE BOOKLET TRENCHING AND TUNNELING NEAR TREES THAT IS PRODUCED BY THE NATIONAL ARBOR DAY FOUNDATION SHALL BE USED AS A GUIDE FOR ALL CONSTRUCTION AND EXCAVATION WORK AROUND TREES. THIS BOOKLET MAY BE OBTAINED BY CONTACTING THE NATIONAL ARBOR DAY FOUNDATION.
13. TREE CARE CONTRACTOR PROVIDING SERVICES SHOULD BE CURRENTLY LICENSED TO DO BUSINESS IN THE STATE OF THE PROJECT, INSURED AGAINST PERSONAL INJURY AND PROPERTY DAMAGE, AND CERTIFIED AS AN ARBORIST WITH THE INTERNATIONAL SOCIETY OF ARBORICULTURE. TO BE PERMITTED TO WORK ON TREES (THE TREE CARE CONTRACTOR SHALL CONTACT THE CITY URBAN FORESTRY DIVISION TO RECEIVE AN APPROVING LETTER IF NEEDED).
14. TREES SHALL NOT BE USED TO SUPPORT ANY SCAFFOLDING, SIGNS, TEMPORARY UTILITY, OR ANY OTHER DEVICE. SIDEWALKS AND PAVING LEVELS SHOULD BE CONTOURED WHENEVER POSSIBLE TO AVOID ROOT CUTTING. IF DAMAGE OCCURS TO A PROTECTED TREE, IMMEDIATE CONTACT SHALL BE MADE WITH THE CITY FORESTER IN ORDER THAT WOUNDS CAN BE TREATED.
15. NO TRENCHING OR TUNNELING NEAR TREES SHOULD BE DONE IN THE PROTECTION ZONE OF THE TREES UNLESS WRITTEN APPROVAL IS GIVEN BY THE OWNER, LANDSCAPE ARCHITECT AND RECEIPT OF AN ELEVATION LETTER FROM THE CITY FORESTER.
16. EXCEPTIONS TO THE ABOVE GUIDELINES SHALL BE REVIEWED AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION.
17. TREES SHALL BE WATERED ACCORDING TO THE FOLLOWING GUIDELINES:
 - a. ESTABLISHED TREES NEED DEEP WATERING ONCE A WEEK WITH LOW PRESSURE TO ENSURE THAT THE GROUND IS SOAKED TO A DEPTH OF AT LEAST 12 INCHES.
 - b. YOUNG OR NEWLY PLANTED TREES NEED TO BE WATERED EVERY 3-4 DAYS.
 - c. TO KEEP WATER FROM EVAPORATING FROM THE SOIL AROUND THE TREE, APPLY AT LEAST TWO OR MORE INCHES OF ORGANIC MULCH (WOOD CHIPS OR MULCH) AROUND THE BASE OF THE TREES UNLESS OTHERWISE DIRECTED BY OWNER OR LANDSCAPE ARCHITECT.

B. UNDERGROUND UTILITY WORK

1. TRENCHING SHOULD BE PERFORMED IN A MANNER AND LOCATION LEAST DAMAGING TO TREE ROOTS.
2. TUNNELING OR BORING SHOULD BE DONE WHENEVER POSSIBLE WHERE LARGE SCAFFOLD ROOTS ARE ENCOUNTERED, HAND DIGGING AND BRIDGING OF ROOTS SHALL BE DONE.
3. ANY CUTTING OF TREE ROOTS, OTHER THAN WHEN IN THE PROCESS OF TREE REMOVAL, SHALL GIVE DUE CONSIDERATION TO FUTURE WELFARE OF THE TREE. PROTECTION SHALL BE TAKEN AS TO PROTECT, PRESERVE, OR CORRECT THE ROOT PROBLEM.
4. THE TRENCHING AND TUNNELING NEAR TREES BOOKLET BY THE NATIONAL ARBOR DAY FOUNDATION SHALL BE USED AS A GUIDE FOR ALL CONSTRUCTION AND EXCAVATION WORK AROUND PROTECTED TREES.
5. EXCAVATION INVOLVING ROOT CUTS SHOULD BE DONE RAPIDLY. CUTS ON TREE ROOTS SHALL BE SMOOTH AND CLEAN. BACKFILL BEFORE THE ROOTS HAVE A CHANCE TO DRY OUT, AND WATER TREE IMMEDIATELY. IF TREE ROOTS ARE TO REMAIN EXPOSED FOR ANY EXTENDED PERIOD OF TIME, THEY MUST BE COVERED WITH BURLAP AND KEPT MOIST AT ALL TIMES.

PURPOSE: THESE NOTES ARE INTENDED TO GUIDE GENERAL CONTRACTOR AND SUB-CONTRACTORS CREWS IN THE PRUNING AND REMOVAL OF EXISTING TREES AND BE IN COMPLIANCE WITH LOCAL STANDARDS.

C. GENERAL STANDARDS FOR TREE PRUNING

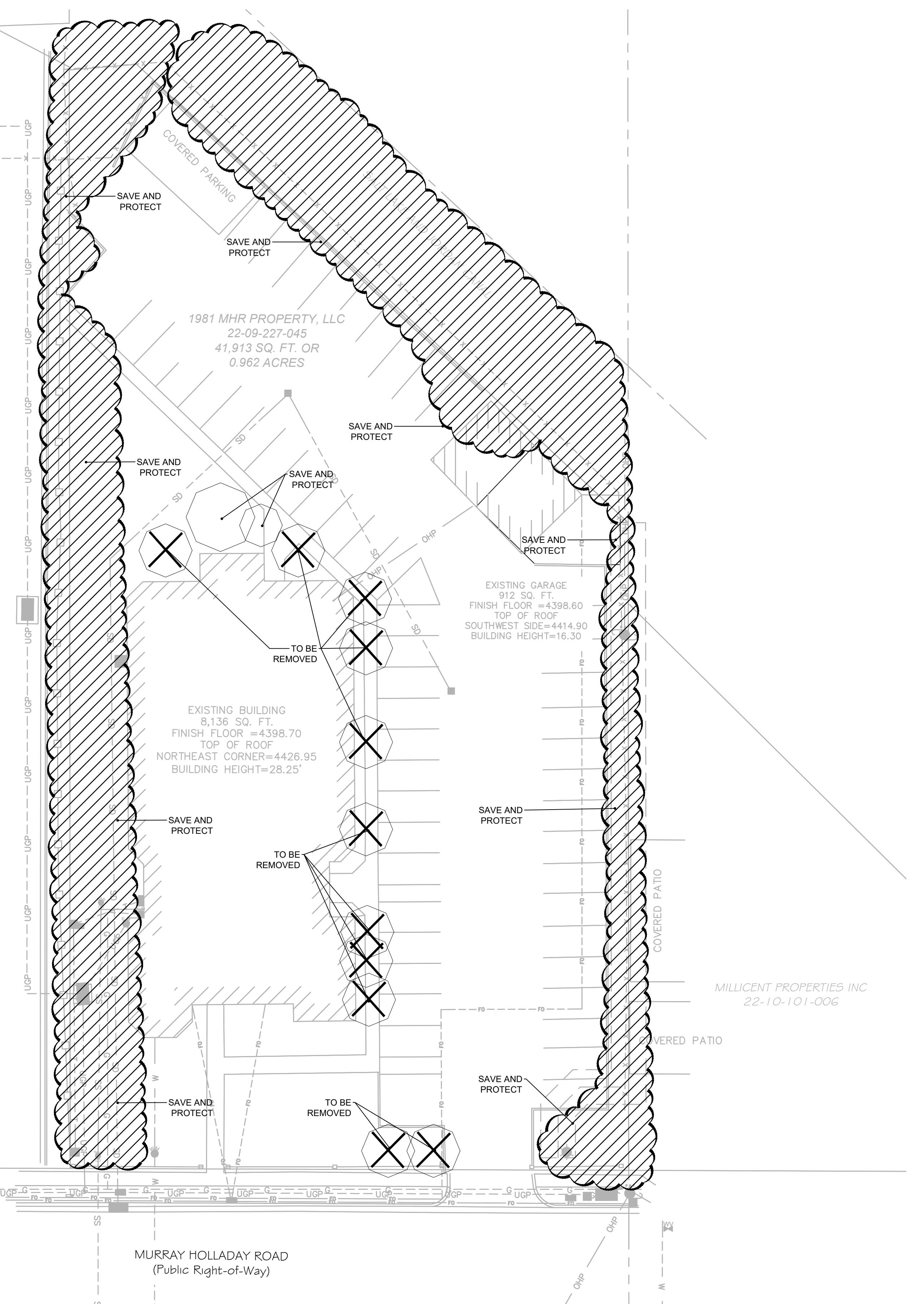
1. ALL TREE MAINTENANCE WORK ON PROPERTY GROUNDS SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISIONS OF ANSI A300 AND ANSI Z133.1 STANDARDS AND AS FURTHER DETAILED IN THE BEST MANAGEMENT PRACTICES TREE PRUNING BOOKLET.
2. ALL TREE PRUNING TO BE COMPLETED BY A LICENSED ARBORIST IN THE STATE OF THE PROJECT.
3. HANGING LIMBS AND BRANCH GROWTH SHALL BE MAINTAINED 13 FEET ABOVE STREETS AND 8 FEET ABOVE SIDEWALKS OR PER LOCAL CODE.
4. AUTHORITY TO PRUNE TREES DOES NOT INCLUDE THE CUTTING BACK OF SOUND, HEALTHY TREE BRANCHES IN EXCESS OF 6 INCHES OUTSIDE DIAMETER, UNLESS SPECIFICALLY DIRECTED BY THE OWNER OR CITY FORESTER.
5. TREE BRANCHES SHALL BE REMOVED AND CONTROLLED IN SUCH A MANNER AS NOT TO CAUSE DAMAGE TO OTHER PARTS OF THE TREE.
6. CLEAN-UP BRANCHES, LOGS, OR ANY OTHER DEBRIS RESULTING FROM A TREE PRUNING OR REMOVAL SHALL BE PROMPTLY AND PROPERLY ACCOMPLISHED. THE WORK AREA SHALL BE KEPT SAFE AT ALL TIMES UNTIL THE CLEAN-UP OPERATION IS COMPLETED. UNDER NO CONDITION SHALL THE ACTIVATION OF FIRE, BRUSH, BRANCHES, LOGS, OR OTHER DEBRIS BE ALLOWED UPON PROPERTY IN SUCH A MANNER AS TO CAUSE A FIRE OR DAMAGE.
7. THE USE OF CLIMBING SPURS OR GAFFS SHALL BE PERMITTED ONLY IN THE CASE OF TREE REMOVAL OR IN AERIAL RESCUE EMERGENCIES.
8. UNDER NO CONDITIONS SHALL IT BE CONSIDERED PROPER TO LEAVE SEVERED OR PARTIALLY CUT LIMBS IN A TREE AFTER THE WORKERS LEAVE THE SCENE OF OPERATIONS.
9. ALL TREES TO BE REMOVED SHALL BE TAGGED FOR OWNERS APPROVAL PRIOR TO REMOVING.

D. TREES SHALL BE REMOVED IF:

1. THE TREE INTERFERES WITH OR CREATES A PUBLIC NUISANCE OR HAZARD TO PEDESTRIANS OR VEHICULAR TRAFFIC OR IS CONSIDERED A PUBLIC NUISANCE BY THE CITY FORESTER.
2. THE TREE IS SIGNIFICANTLY DAMAGED OR DISEASED.
3. THE TREE IS SPECIFIED TO BE REMOVED ON THIS PLAN.
4. THE OWNER REQUESTS REMOVAL OF TREE. IN THIS CASE THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED SO AS TO REVISE THE PROPOSED PLANTING PLAN TO MEET CITY/COUNTY REQUIREMENTS FOR TREE REPLACEMENT.

E. STUMP REMOVAL REQUIREMENTS AND STANDARDS

1. PERSONS PERFORMING STUMP REMOVAL DUTIES SHALL HAVE THE IMMEDIATE AREA INVESTIGATED FOR UTILITY LINES FROM BLUE STAKES/DIG-LINE AS NECESSARY AND WEAR ALL REQUIRED SAFETY EYE AND EAR PROTECTION.
2. ALL REMOVAL OF TAGGED TREES SHALL BE DONE IN A MANNER SO THAT THE REMAINING STUMP WILL BE AT LEAST 8 INCHES BELOW GROUND LEVEL UNLESS OTHERWISE DIRECTED BY OWNER.
3. EXCAVATIONS RESULTING FROM A TREE OR SHRUB REMOVAL MUST BE PROMPTLY FILLED IN TO NORMAL GROUND LEVEL WITH TOPSOIL APPROVED BY OWNER OR FILL MATERIAL DEPENDING ON LOCATION. THE TOPSOIL/FILL MATERIAL SHALL BE PROPERLY SETTLED AND BE FREE OF DEBRIS.



ISSUE DATE	PROJECT NUMBER	PLAN INFORMATION	PROJECT INFORMATION	DEVELOPER / PROPERTY OWNER / CLIENT	LANDSCAPE ARCHITECT / PLANNER	LICENSE STAMP	DRAWING INFO
6/18/2024	UT24082						
NO.	REVISION	DATE					
1	XXXX	XX-XX-XX					

811 BLUE STAKES OF UTAH
UTILITY NOTIFICATION CENTER, INC
1-800-662-4111
www.bluestakes.org



HOLLADAY PROJECT

1981 E. MURRAY HOLLADAY RD.
HOLLADAY, UTAH

GRAPHIC SCALE: 1" = x

RODERICK ENTERPRISES
ATT: BENJAMIN WHATON
801-506-5005
BENW@RODERICKREALTY.COM

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PKJ DESIGN GROUP

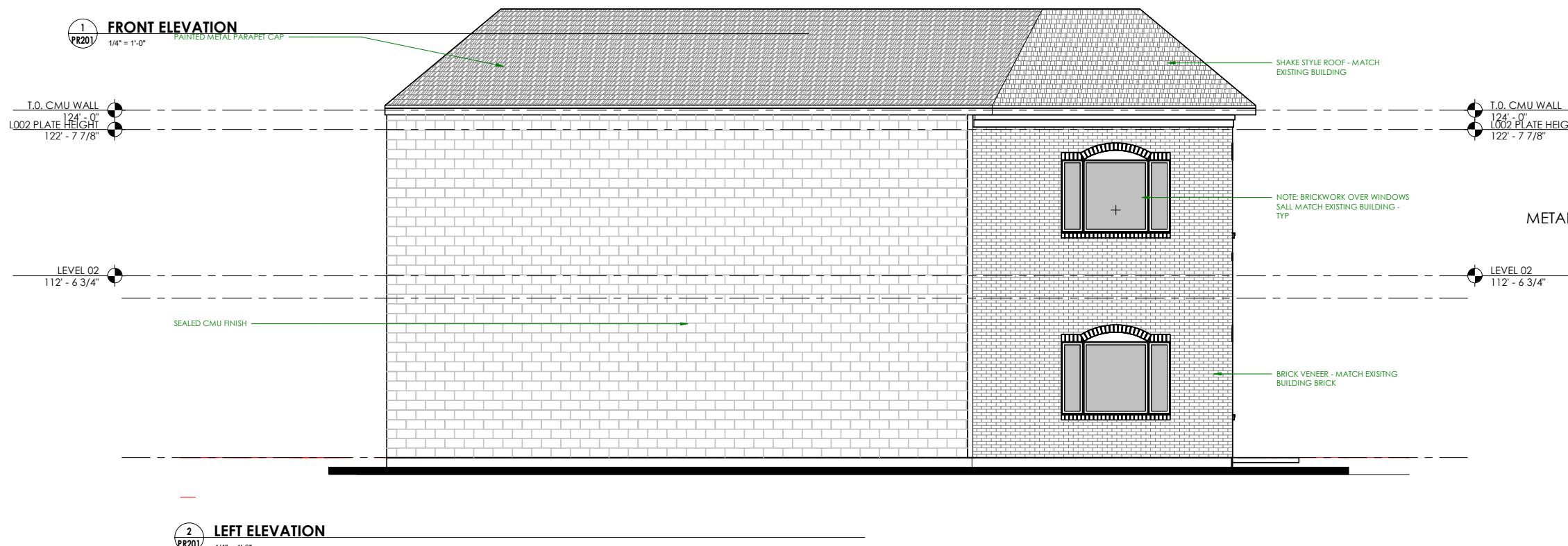
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LP-EX

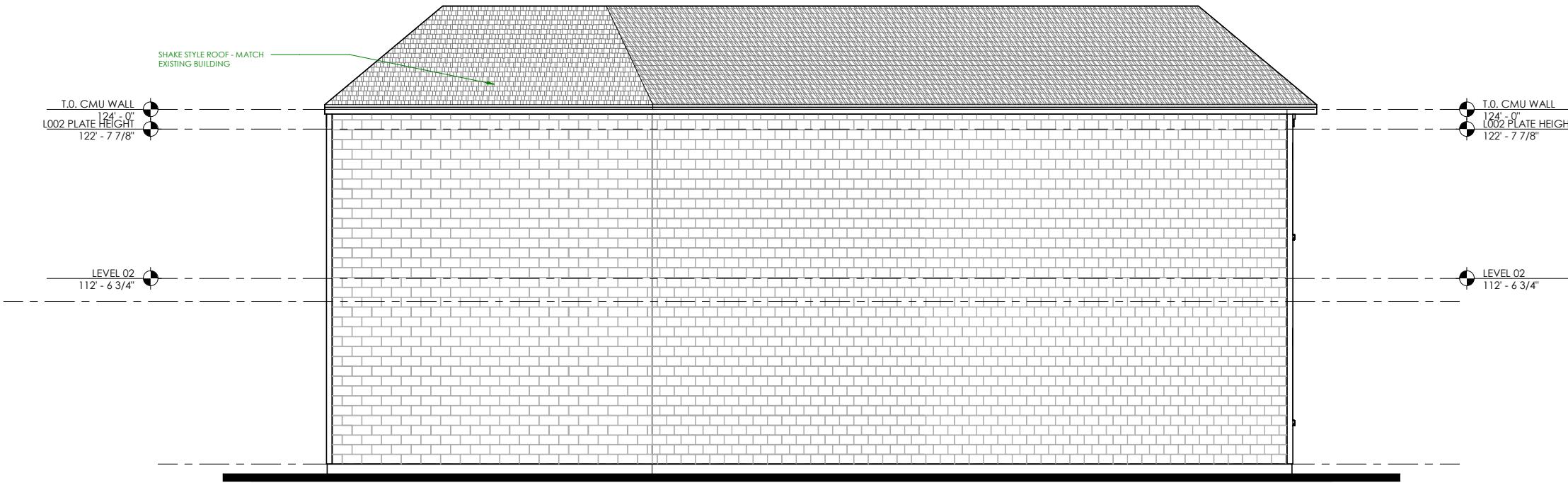
EXISTING TREE PLAN
CITY PERMIT SET

PM: JTA
DRAWN: ACP
CHECKED: JMA
PLOT DATE: 6/18/2024



RODERICK OFFICE GARAGE

Presentation Elevations



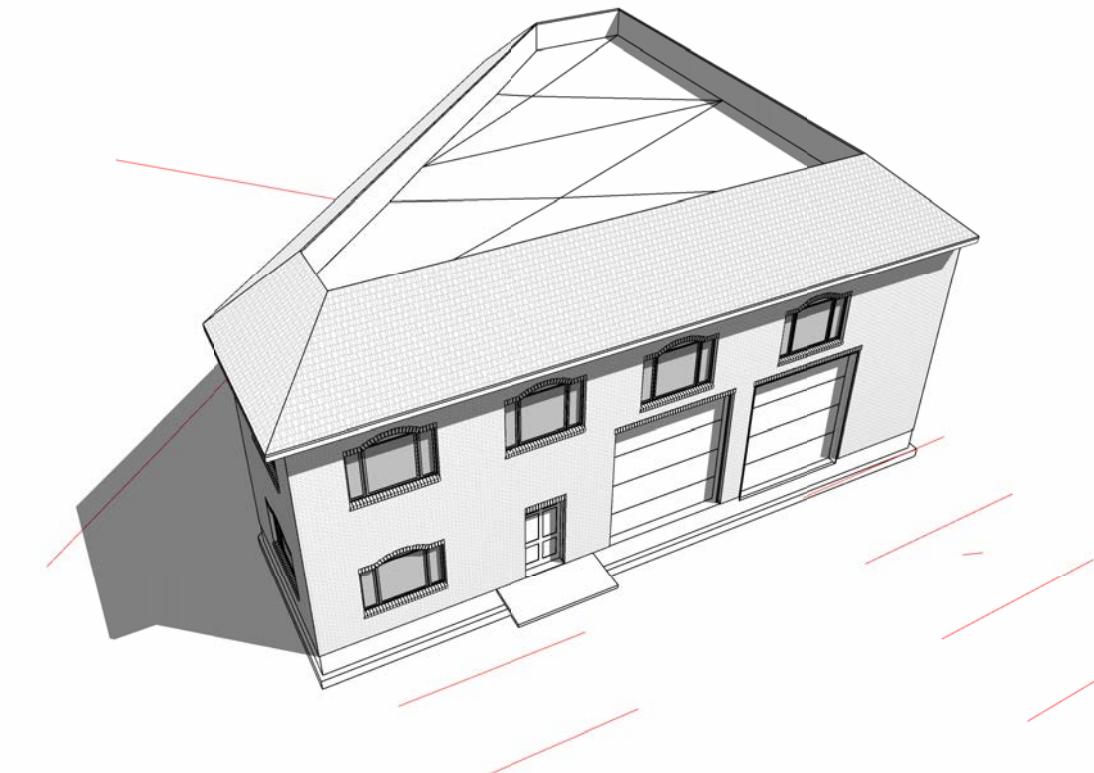
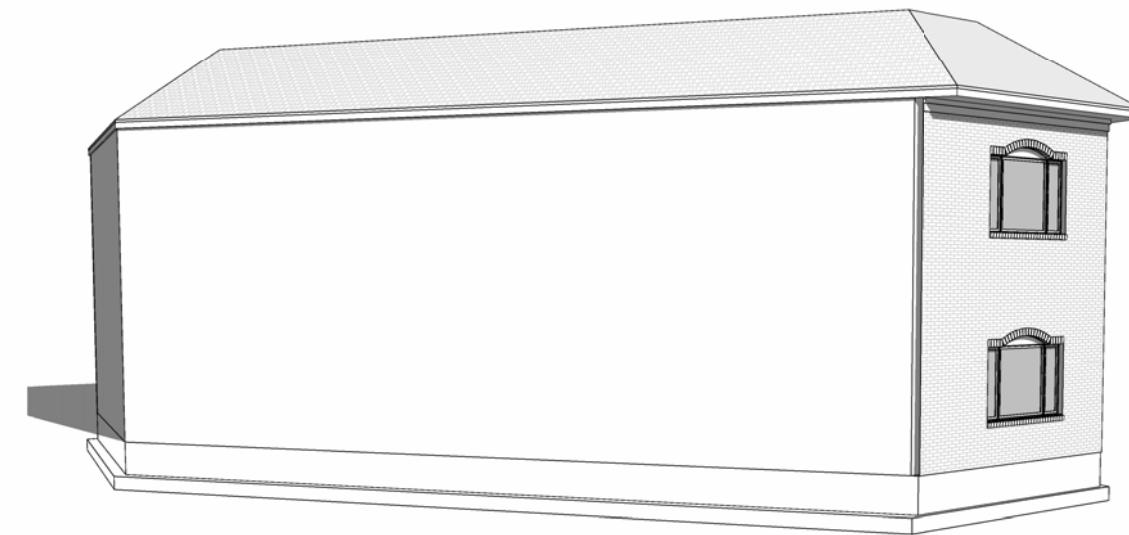
1 REAR ELEVATION
PR202
1/4" = 1'-0"



2 RIGHT ELEVATION
PR202
1/4" = 1'-0"

RODERICK OFFICE GARAGE

Presentation Elevations



City of Holladay



TRAINING
PLANNED UNIT DEVELOPMENTS AND
ROYAL HOLLADAY HILLS SITE DEVELOPMENT MASTER PLAN (SDMP)

PLANNED UNIT DEVELOPMENTS



Planned Unit Developments are a Conditional Use

"A conditional use is a land use that has unique characteristics or negative effects that may not be compatible in an area without conditions to mitigate or eliminate the detrimental impacts." (source: *Utah Property Rights Ombudsman*)

What are Applicable Standards?

Standards guide decisions on the nature and extent of the conditions. They are guidelines in an ordinance that help determine the type and extent of conditions that may be imposed.

What are Detrimental Impacts?

Detrimental impacts are the problem. The detrimental effects identified for a conditional use should be related to negative impacts on legitimate governmental interests, or on the public welfare.

How are Conditions Determined?

Conditions are the means to solve the problem. Conditions must be reasonable, address the identified effects, and must refer to the applicable standards already identified in the land use ordinance.



Planned Unit Developments

PURPOSE

- Permit flexibility in land use
- Allow diversification in the interrelationships of various uses and structures with their sites and thus offer an alternative to conventional development
- Encourage:
 - Unique neighborhoods
 - High quality housing
 - Exceptional design
 - Additional open space
 - Facilities compatible with the present living environment in the City

Additional points:

- The objective is to preserve existing greenery and significant trees on the site.
- The PUD must create unique benefits for both the property owner and the city
- Applicants must justify why the project would be better for the community than a project developed as the underlying zoning would normally allow.



Planned Unit Developments

OBJECTIVES

1. The stabilization and preservation of the existing or planned land uses in abutting areas and surrounding residential neighborhoods;
2. Preservation and enhancement of desirable site characteristics such as natural topography, vegetation and geologic features, and the prevention of soil erosion;
3. Preservation of buildings which are architecturally or historically significant or contribute to the character of the city;
4. Maximizing and preserving vegetation and open space and/or other special development amenities to provide light, air and privacy, to buffer abutting properties and to provide active and passive recreation opportunities for residents of the planned development and/or the community;
5. Minimize significant through traffic impacts on adjacent residential neighborhoods;
6. Provide an appropriate transition or buffering between uses of differing intensities both on site and off site; and
7. Provide safe and convenient vehicle and pedestrian connections between adjacent uses.



Planned Unit Developments

PROCESS

Three step review of Site Plan – Concept, Preliminary, and Final

Submission Requirements

- Standard Subdivision design with maximum density calculation of zone
 - Minimum lot size, lot width, and setbacks
- PUD site plan showing, ***where pertinent***
 - Use, dimensions, elevations and locations of structures
 - Dimensions and locations of areas to be reserved and developed for vehicular and pedestrian circulation.
 - Architectural drawings outlining the general design and character of the proposed uses and the physical relationships of the uses
 - Residential density, coverage and open space characteristics to make a determination that the proposed arrangement of buildings/uses makes it desirable to apply regulations and requirements differing from those ordinarily applicable.
 - Explanation of how the proposed PUD satisfies the purposes
 - Phasing details, if applicable



Planned Unit Developments

What Can't Be Waived?

- Use Regulations
- Overall building height regulations, including graduated height
- Density

The PUD must also be compliant with Subdivision Regulations



Planned Unit Developments

Planning Commission Findings

The Planning Commission can approve, approve with conditions, or deny a PUD.

Must have written findings of fact according to the following standards:

- The PUD shall meet the purpose statement for a PUD
- Master Plan and Zoning compliance
- Compatible with the character of the site, adjacent properties, and existing development within the vicinity of the site. **Consider the following to determine compatibility:**
 1. Does the street/access provide necessary ingress/egress without materially degrading the service level on the street/access or adjacent street/access?
 2. Would the PUD and its location create unusual pedestrian or vehicle traffic patterns or volumes that would not be expected, based on:
 - a. Orientation of driveways
 - b. Parking area locations/size
 - c. Hours of peak traffic
 3. Internal circulation system designed to mitigate adverse impacts on adjacent land uses, public services, and utility resources
 4. Existing/proposed utility and public services are adequate to support the PUD and designed to avoid adverse impacts on adjacent land uses, public services, and utility resources.
 5. Buffering or other mitigation to protect adjacent land uses from excessive light, noise, odor, and visual impacts. Trash collection, deliveries, mech. equip.
 6. Does the mass and scale of the buildings, the intended use, and intensity/size/scale are compatible with surrounding properties.



Planned Unit Developments

Minimum Area

PUDs require a minimum area by zone to qualify

Typically, 3 times the size of the minimum lot size

Zone Type	Designation	Minimum Area
Forestry and recreation zone	FR-0.5	1.5 acres
Forestry and recreation zone	FR-1	3 acres
Forestry and recreation zone	FR-2.5	7.5 acres
Forestry and recreation zone	FR-5	15 acres
Forestry and recreation zone	FR-10	30 acres
Forestry and recreation zone	FR-20	60 acres
Single-family residential zone	R-1-4	12,000 sq. ft.
Single-family residential zone	R-1-8	24,000 sq. ft.
Single-family residential zone	R-1-10	30,000 sq. ft.
Single-family residential zone	R-1-15	45,000 sq. ft.
Single-family residential zone	R-1-21	1.5 acres
Single-family residential zone	R-1-43	3 acres
Single-family residential zone	R-1-87	6 acres
Multi-family residential zone	R-2-8	24,000 sq. ft.
Multi-family residential zone	R-2-10	30,000 sq. ft.
Multi-family residential zone	R-M	12,000 sq. ft.
Commercial zone	C-1	No minimum
Commercial zone	C-2	No minimum



Planned Unit Developments

Effect on Adjacent Properties

The Code gives specific standards to assess the effect on adjacent properties

The Planning Commission can require arrangement of structures and open spaces within the site plan, as necessary, to assure that adjacent properties will not be adversely affected.

Height and Intensity

- Height and intensity of buildings and uses shall be arranged around the boundaries of the PUD to be compatible with existing adjacent developments or zones.
- Unless conditions of the site warrant, buildings located on the periphery shall be limited to a maximum height of two stories.
- Comply with graduated height restrictions of the underlying zone

Area, Width, Yard, and Coverage

- Lot area, lot width, yard, and coverage regulations shall be determined by approval of the site plan and shall meet the requirements of the underlying zone wherever possible.

Density

- Cannot exceed limitations of the zone. Density calculation can include open space. Roadways cannot be included in the PUD for the purpose of calculating density



Planned Unit Developments

Open Space, Landscaping, Fencing, Lighting

Open Space

To be preserved and maintained in perpetuity as open space

Landscaping, Fencing, and Screening

Anything related to the uses with the site and as a meaning of integrating the PUD into its surrounds should be planned and presented to the Commission with other required plans for the development

Signs and Lighting

Show size, location, design, and nature of any signs. Detail the intensity and direction of area lighting.

PUD details and specifications are recorded on the subdivision plat.

Modifications to PUDs, including landscaping, require review and approval from the Planning Commission



ROYAL HOLLADAY HILLS SITE DEVELOPMENT MASTER PLAN (SDMP)



Royal Holladay Hills SDMP

Background and History

Considering the significant size and regional economic importance of the former Cottonwood Mall site, a site development master plan was created in 2007 to guide cohesive development of the overall site, which was broken down into development blocks.

Due to the recession from 2008 – 2012, development never occurred. The former SDMP was modified to include more in 2018 through a public process including public hearings. The modifications to primarily residential use was not an economically viable land use and the 2018 SDMP was rescinded, retuning the 2007 SDMP as the regulating document for the site.



Royal Holladay Hills SDMP

Overview of Document

General Development Guidelines are found on the cover page

- Site acreage
- Building heights
- Parking (full site)
- Density (full site)
- Setbacks
- Open Space
- Total Square footage by use (commercial vs residential)

Parking, density, open space, and uses are regulated by minimums and maximums instead of a set number.

The full document contains site specific details including phasing, land uses, building massing and heights, site parking, thoroughfares, traffic study and impacts, streetscape design examples, open spaces plan, building materials and design guidelines, lighting and signage plan, utility details, and civil details.

When new sections of development come before the Planning Commission for approval, it is to ensure that the details of the new development are meeting the specific controlling regulations in the SDMP.





Cottonwood

Site Development Master Plan (SDMP)

Regional Mixed-Use Development

City of Holladay, County of Salt Lake, State of Utah

Legal Description

BEGINNING AT A POINT ON THE SOUTHERLY LINE OF MURRAY-HOLLADAY ROAD, SAID POINT BEING SOUTH 00°03'51" EAST ALONG THE SECTION LINE 658.03 FEET TO THE CENTER LINE OF SAID MURRAY-HOLLADAY ROAD AND NORTH 89°47'36" WEST ALONG SAID CENTER LINE 632.67 FEET AND SOUTH 54°39'59" EAST 83.42 FEET FROM THE NORTHEAST CORNER OF SECTION 9, TOWNSHIP 2 SOUTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN, AND RUNNING THENCE EASTERLY ALONG SAID SOUTHERLY LINE THE FOLLOWING (2) COURSES: (1) NORTH 54°39'59" WEST 26.07 FEET, (2) SOUTH 89°47'36" EAST 127.55 FEET TO THE WESTERLY LINE OF THE UTAH POWER AND LIGHT PARCEL; THENCE ALONG SAID UTAH POWER AND LIGHT PARCEL THE FOLLOWING (4) COURSES: (1) SOUTH 21°59'01" WEST 42.15 FEET, (2) SOUTH 03°30'59" EAST 72.00 FEET, (3) SOUTH 06°38'59" EAST 127.12 FEET, (4) NORTH 78°59'01" EAST 179.90 FEET TO THE WESTERLY LINE OF THE SPRING FORTH INVESTMENTS PARCEL; THENCE ALONG SAID SPRING FORTH INVESTMENTS PARCEL THE FOLLOWING (2) COURSES: (1) SOUTH 02°59'59" EAST 8.95 FEET, (2) NORTH 78°59'01" EAST 167.85 FEET, MORE OR LESS, TO THE WESTERLY LINE OF MEMORY LANE; THENCE SOUTHERLY ALONG SAID WESTERLY LINE THE FOLLOWING (2) COURSES: (1) SOUTH 00°00'59" EAST 38.90 FEET, (2) SOUTH 44°45'59" EAST 929.25 FEET, MORE OR LESS, TO THE NORTHERLY LINE OF ARBOR LANE, AS PER DEDICATION PLAT RECORDED WITH THE OFFICE OF THE SALT LAKE COUNTY RECORDER IN BOOK N OF PLATS ON PAGE 1; THENCE ALONG SOUTHWESTERLY ALONG SAID NORTHERLY LINE THE FOLLOWING (10) COURSES: (1) SOUTH 46°48'01" WEST 200.20 FEET TO A POINT OF CURVATURE, (2) SOUTHWESTERLY ALONG THE ARC OF A 127.34 FOOT RADIUS CURVE TO THE LEFT THROUGH A CENTRAL ANGLE OF 81°03'00" A DISTANCE OF 180.13 FEET (CHORD BEARS SOUTH 06°16'31" WEST 165.49 FEET), (3) SOUTH 34°14'59" EAST 64.50 FEET TO A POINT OF CURVATURE, (4) SOUTHEASTERLY ALONG THE ARC OF A 1121.28 FOOT RADIUS CURVE TO THE RIGHT THROUGH A CENTRAL ANGLE OF 18°38'00" A DISTANCE OF 364.65 FEET (CHORD BEARS SOUTH 24°55'59" EAST 363.05 FEET) TO A POINT OF COMPOUND CURVATURE, (5) SOUTHWESTERLY ALONG THE ARC OF 225.79 FOOT RADIUS CURVE TO THE RIGHT THROUGH A CENTRAL ANGLE OF 49°37'00" A DISTANCE OF 195.53 FEET (CHORD BEARS SOUTH 09°11'31" WEST 189.48 FEET) TO A POINT OF COMPOUND CURVATURE, (6) SOUTHWESTERLY ALONG THE ARC OF A 821.00 FOOT RADIUS CURVE TO THE RIGHT THROUGH A CENTRAL ANGLE OF 19°35'00" A DISTANCE OF 280.61 FEET (CHORD BEARS SOUTH 43°47'31" WEST 279.25 FEET), (7) SOUTH 36°24'59" EAST 8.50 FEET TO A POINT ON THE ARC OF A 214.51 FOOT NON-TANGENT RADIUS CURVE TO THE RIGHT (CENTER BEARS NORTH 36°24'59" WEST), (8) SOUTHWESTERLY ALONG THE ARC OF SAID 214.51 FOOT RADIUS CURVE THROUGH A CENTRAL ANGLE OF 41°24'00" A DISTANCE OF 155.00 FEET (CHORD BEARS SOUTH 74°17'01" WEST 151.65 FEET), (9) NORTH 85°00'59" WEST 351.80 FEET, (10) SOUTH 00°36'39" EAST 40.93 FEET TO A POINT ON THE WESTERLY LINE OF HIGHLAND DRIVE; THENCE NORTHWESTERLY ALONG SAID EASTERLY LINE THE FOLLOWING (8) COURSES: (1) NORTH 56°10'59" WEST 151.55 FEET, (2) NORTH 39°48'39" WEST 1124.58 FEET TO A POINT OF SPIRAL CURVATURE, (3) NORTHWESTERLY ALONG THE ARC OF SAID SPIRAL CURVE, SAID CURVE BEING CONCENTRIC WITH AND 50.00 FEET RADIALLY DISTANT EASTERLY FROM A 200.00 FOOT TEN-CHORD SPIRAL FOR A 4° CURVE TO THE RIGHT, 196.50 FEET, MORE OR LESS, TO A POINT OF CURVATURE OF A 1381.83 FOOT RADIUS CURVE TO THE RIGHT (CENTER BEARS NORTH 54°11'10" EAST), (4) NORTHWESTERLY ALONG THE ARC OF SAID 1381.83 FOOT RADIUS CURVE THROUGH A CENTRAL ANGLE OF 30°02'13" A DISTANCE OF 724.42 FEET (CHORD BEARS NORTH 20°47'43" WEST 716.15 FEET), MORE OR LESS, TO A POINT OF SPIRAL CURVATURE, (5) NORTHWESTERLY ALONG THE ARC OF SAID SPIRAL CURVE, SAID CURVE BEING CONCENTRIC WITH AND 50.00 FEET RADIALLY DISTANT EASTERLY FROM A 200.00 FOOT TEN-CHORD SPIRAL FOR A 4° CURVE TO THE RIGHT, 196.50 FEET, MORE OR LESS, TO A POINT OF TANGENCY, (6) NORTH 01°43'40" WEST 3.89 FEET, (7) SOUTH 88°12'51" WEST 10.00 FEET, (8) NORTH 01°43'40" WEST 43.18 FEET TO A POINT ON THE SOUTHERLY LINE OF SAID MURRAY-HOLLADAY ROAD; THENCE EASTERLY ALONG SAID SOUTHERLY LINE THE FOLLOWING (3) COURSES: (1) SOUTH 89°47'36" EAST 144.66 FEET, (2) SOUTH 00°11'01" WEST 15.00 FEET, (3) SOUTH 89°47'36" EAST 682.56 FEET TO THE POINT OF BEGINNING.



Project Vicinity Boundary

General Development Guidelines

Zoning: Regional Mixed-Use (R/M-U)

Total Site Acreage: 57.37 Acres

Building Height*:

Restricted:

Maximum: 40 Feet Height***

Maximum: 35 Feet Height for single family lots greater than .20 acres ***

Minimum: No Dwellings shall contain less than one story

Limited:

Maximum: 60 Feet Height (4 Stories)***

Minimum: No Dwellings shall contain less than one story

Open:

Maximum: 90 Feet Height (5 Stories); including screening walls, architectural features and mechanical equipment.*** Not to exceed 80 Feet Height in 50% or less of Total Square Footage located in District Area

Architectural Tower Feature not subject to height restrictions

Minimum: No Dwellings shall contain less than one story

*All Height Measurements are measured on New Proposed Grade Levels and shall be measured from the center point average of each building structure (see page 23 of the SDMP for proposed finished grade elevations)

Parking: Stalls (Min/Max) 2,643/4,421

Density:

Residential Units (Min/Max): 454 Units/614 Units

Average DU/A (Min/Max): 7.91 Units per Acre/10.70 Units per Acre

Setbacks:

45 Foot Average Setback from Big Cottonwood Creek to Building.

Minimum of 40 Foot Setback along Big Cottonwood Creek to Building.

Protected Zone: Minimum 10 Foot Setback from Right of Way along

Memory Lane and Arbor Lane. Minimum 25 Foot Setback for 4

Single Family Lots over 0.20 Acres on Arbor Lane. 0 Foot Setback

for Murray/Holladay Road and Highland Drive (excluding creek section) from

Right of Way.

Total Open Space (Min/Max):

479.232 square feet/648,372 square feet

11.00 acres/14.88 acres

Total Square Footage by Uses**:

Commercial (Min/Max): 579,169 square feet/772,225 square feet

Residential (Min/Max): 762,141 square feet/ 1,031,131 square feet

**Developer is required to submit building permit approvals for the minimum required commercial square feet by block/subdivision (page 4) on or before the time of building permit approvals are granted for residential building uses by each block/subdivision.

Contents

1. General Guidelines/Site Statistics
2. Project Description and Vision Statement
3. Permitted Land Uses by District and Building Functions
4. Conceptual Phasing/Subdivision Plan
5. Land Use Regulating Plan - Uses by Story
6. Building Massing and Heights Plan
7. Conceptual Massing Renderings
8. Site Parking Plan
9. Site Parking Average Analysis
10. Thoroughfare locations, types and travel direction
11. Thoroughfare Types & Street Cross Sections
12. Traffic Study and Impacts
13. Traffic Study and Impacts, Continued
14. Streetscape Design Examples/Branding Precedents
15. Open and Gathering Space Plan
16. Sample Building Materials and Design Guidelines
17. Conceptual Site Lighting and Signage Plan
18. Utility Capacity and Availability
19. Civil Plans: Site
20. Civil Plans: Grading and Drainage
21. Civil Plans: Creek Relocation Model
22. Civil Plans: Topographical Model
23. Civil Plans: Center Building Point Elevations
24. Civil Plans: Utility Model
25. Environmental and Energy Efficiency Statement of Intent
26. Site Construction/Environmental Quality Control Plan
27. Geotechnical Data and Studies Summary
28. Geotechnical Data and Studies Summary

***Council Member Orton moved to adopt Resolution 07-51 and the site plan as presented with the date of December 11, 2007 with the inclusion of page 26 dated December 12, 2007 with the following addition: It is intended that height be the maximum as stated therein with the requirement that if additional height is requested by the developer that they must first appear before the Planning Commission and City Council for proper approvals. Council Member Peterson seconded the motion. Motion was unanimously approved by The City Council.

Owner/Developer Primary Contact

Kathy Olson
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(801) 486-3911

Draft Date: 12/11/07



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Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO.
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS



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Project Description and Vision Statement

COTTONWOOD

PROJECT DESCRIPTION

HOLLADAY, UTAH

Situated on the eastern edge of the Salt Lake Valley, the Cottonwood site is largely defined by its proximity to two mountain ranges. The presence of Mt. Olympus and the Twin Peaks promontory to the east provides a constant reminder of the site's views and location.

Long before the Salt Lake City metropolitan area sprawled into Holladay, early settlement groups appreciated the Cottonwood area for its natural beauty. Solitary aesthetes communed with the nature through art; community groups gathered to share enjoyment of the setting; travelers stopped for respite and meals along the banks of the creek.

In the early twentieth century, Cottonwood's first buildings represented an investment in the area's long term engagement. Both household and community buildings displayed an appreciation of the climate, with porches and galleries extending living space into the outdoors. A large local farm even boasted a formal landscape of tree allies, implying that the settlement was designed for the enjoyment of future generations.

These inaugural settlers' responses to location, climate and geography remain valid today. The comfort and beauty of outdoor living still define the Cottonwood site, and will continue to play an important role in its planning and architecture. Likewise, historic models of building and infrastructure responding to the landscape can be found throughout the Salt Lake Valley.

The plan for the new Cottonwood looks to its history and geography to bring a new generation of residents and visitors to the site. A grid of streets and pedestrian blocks will replace the monolithic structure of the site's mall and its continuous pavement of parking lots, ultimately accommodating a mix of uses and housing types. The new Cottonwood will be a pedestrian-friendly, walkable neighborhood which prioritizes the public civic realm. The majority of the site will be accessible to residents and visitors within a five minute walk from town center to town edge, enabling residents to easily access their daily needs on foot.

The heart of the Cottonwood community is the main street, which follows views of the peaks promontory as aligned from the entries off Highland Drive. All of Cottonwood's streets connect back to the main street, either as part of the vehicular network or through pedestrian passages that navigate the change in level with stairs and elevators. This vertical transition takes place and is marked by the campanile, a tower located as vista rumination not only for the main street but also for Highland Drive as it approaches Cottonwood from the South.

The Cottonwood center primarily features mixed-use buildings and live/work units, to provide the community with commercial vitality. The main street is bordered by continuous retail frontage with residential and office floors above extending from Macy's to the far side of the square. The community's western blocks are comprised of five-story mixed-use buildings facing the main street, with four stories of live-work and townhouses lining a three/four-level parking garage at the block interim. Additionally, three/four-story residential buildings face a paved river-walk and the creek.

The Macy's store serves as both a historical and contemporary functional anchor for the plan. A plaza in front of Macy's forms the north entry of the main street, with its axis aligned with the mountain peaks. The street's vista terminates on the square's campanile, bending to provide a view of the Twin Peak promontory.

The square will serve as a focal point and gathering place for the community, and is formed by this five-story mixed-use buildup. To the east is the cinema building, with restaurants on the ground floor, and two pedestrian passages connect the square to the townhouse mews to the east.

Opportunities to enjoy the site's landscape also exist throughout Cottonwood. The south entry of the main street crosses the creek and the park with a bridge that provides a picturesque pedestrian crossing. A restaurant is sited to view the creek, the park and the bridge. The creek is banked and landscaped to provide flood control and a continuous green space for Cottonwood. Additionally, the south entry of the main street creek park expands to allow the creek to be released from the paved channel of its mall days, providing a landscaped park to serve both Cottonwood and the adjacent neighborhood.

Cottonwood's traffic network neatly connects with the streets around it, and with the major streets framing the development. The main street connects to Highland Drive to the west through the creation of two short blocks aligned with the existing mall entries. To the south, the entrance to Cottonwood aligns with Highland Drive's southern approach.

East of the main street and the square, residential blocks of townhouses and cottages provide a transition to the surrounding residential neighborhoods. Along Memory Lane, several pedestrian-only entries facilitate neighborhood mobility. The entry to neighborhood is reformed to allow entry from Highland Drive while precluding traffic exiting from the main street.

Draft Date: 12/11/07

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Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO.
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS

 McNEIL
Engineering, Inc.

 Sasaki
ARCHITECTS

 RTKL

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Permitted Land Uses by District and Building Functions



This table sets forth Land Use categories to delegate specific Functions and uses within established Districts

	RESTRICTED	LIMITED	OPEN
RESIDENTIAL			
Attached Housing		■	■
Detached housing	■	■	■
Ancillary Units (only permitted on lots greater than 0.20 acres)	■		
LODGING			
Hotel (no room limit)			■
Inn (up to 12 rooms)			■
Bed and Breakfast (up to 5 rooms)		■	■
School Dormitory			■
COMMERCIAL			
Office		■	■
Live-Work Unit		■	■
Open-Market Building			■
Retail Building			■
Department Store Building			■
Display Gallery			■
Push Cart (mobile)			■
Restaurant			■
Kiosk (fixed)			■
Liquor Selling Establishment			*****
CIVIC			
Bus Shelter	■	■	■
Assembly Spaces		■	■
Fountain or Public Art	■	■	■
Library		■	■
Live Theater			■
Movie Theater			■
Museum			■
Outdoor Auditorium			■
Parking Structure			■
Playground	■	■	■
Surface Parking Lot		■	■
Religious Assembly			■
CIVIL SUPPORT			
Police Station			■
Funeral Home			■
Hospital			■
Medical Clinic			■
Postal Office			■
EDUCATION			
College			■
Trade School			■
Elementary School			■
Childcare Center			■

■ Permitted by Right

***** Permitted subject to compliance with applicable State of Utah regulation

Note: Live/Work Units are not regulated as home occupational units.

DISTRICT	Open	Limited	Restricted	TOTAL
Area (SF)	1,797,013.00	445,023.87	257,020.98	2,499,057.85
Acres	41.25	10.22	5.90	57.37
Maximum Density (DU/A)	12	9	5	10.70

Draft Date: 12/11/07

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Conceptual Phasing/Subdivision Plan

Total Land Area by Block

Block	A	B	C	D	E	F	G	H	I	J	K	L	Total SF
Area (SF)	144,635	362,779	153,475	158,780	170,583	201,485	241,009	148,380	162,394	195,374	311,066	249,097	2,499,057
Area (Acres)	3	8	4	4	4	5	6	3	4	4	7	6	57.37

Commercial Use by Block

Block	A	B	C	D	E	F	G	H	I	J	K	L	TOTAL	
Total Commercial	-	370,672	32,647	28,204	25,303	28,854	20,874	65,814	91,171	108,686	-	-	772,225	Maximum
	-	278,004	24,485	21,153	18,977	21,641	15,656	49,361	68,378	81,515	-	-	579,169	Minimum

Residential Uses by Block

Residential Units	Blocks	A	B	C	D	E	F	G	H	I	J	K	L	TOTAL	
Multi Family (Attached)	-	-	105	114	84	76	77	26	21	23	37	21	583	Maximum	
	-	-	77	84	62	56	57	20	15	17	27	15	431	Minimum	
Single Family (Detached)	-	-	-	-	-	-	-	-	-	-	23	8	31	Maximum	
	-	-	-	-	-	-	-	-	-	-	17	6	23	Minimum	
Total	-	-	105	114	84	76	77	26	21	23	60	29	614	Maximum	
	-	-	77	84	62	56	57	20	15	17	44	21	454	Minimum	

Residential Square Footage	Blocks	A	B	C	D	E	F	G	H	I	J	K	L	TOTAL	
Multi Family (Attached)	-	-	175,717	191,165	140,960	127,443	129,374	44,412	34,757	38,619	61,791	34,757	978,996	Maximum	
	-	-	129,878	141,296	104,188	94,197	95,624	32,826	25,690	28,545	45,671	25,690	723,605	Minimum	
Single Family (Detached)	-	-	-	-	-	-	-	-	-	-	38,619	13,517	52,136	Maximum	
	-	-	-	-	-	-	-	-	-	-	28,545	9,991	38,535	Minimum	
Total	-	-	175,717	191,165	140,960	127,443	129,374	44,412	34,757	38,619	100,410	48,274	1,031,131	Maximum	
	-	-	129,878	141,296	104,188	94,197	95,624	32,826	25,690	28,545	74,216	35,681	762,141	Minimum	

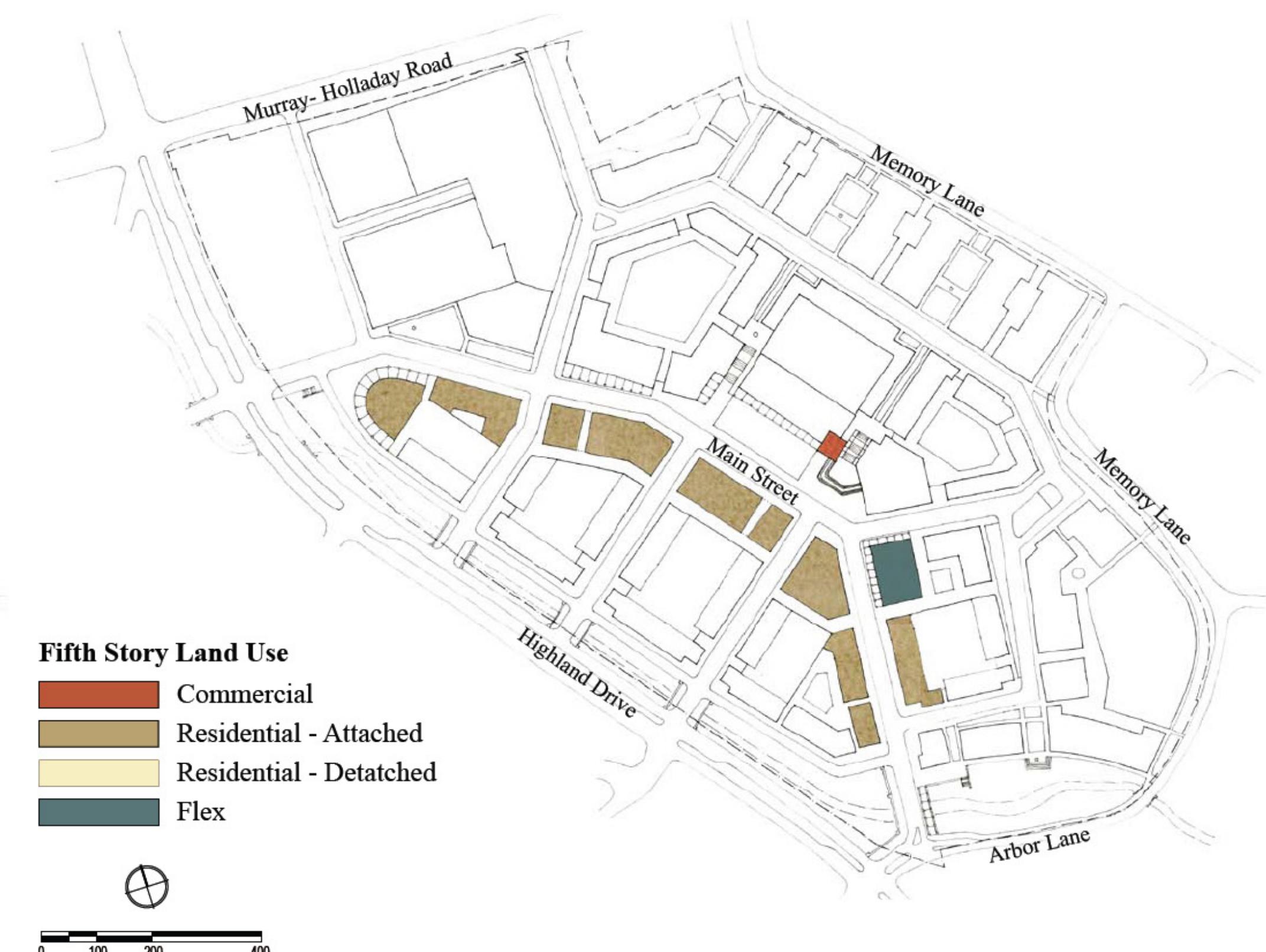
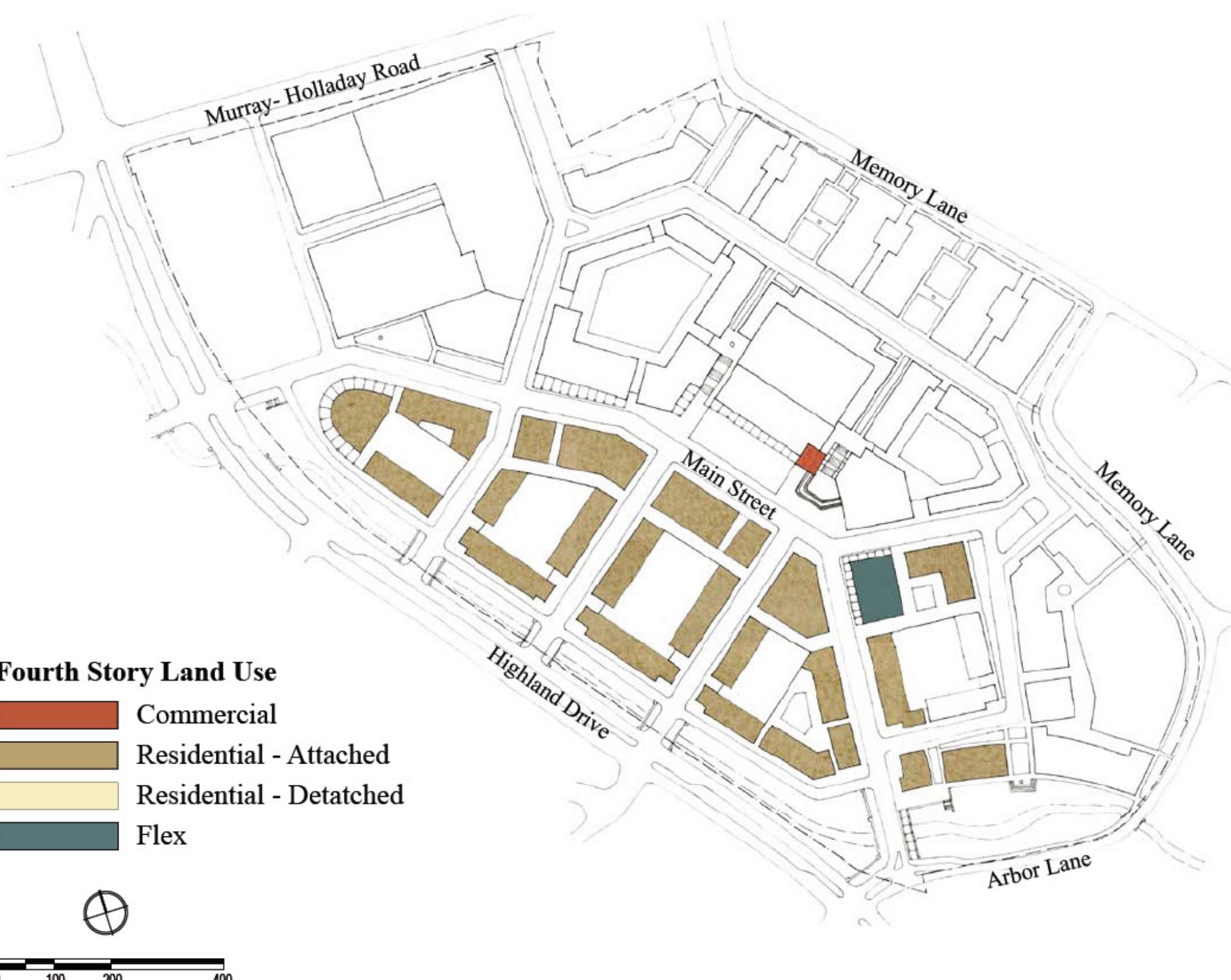


*Phasing shown on master plan is subject to market conditions and change

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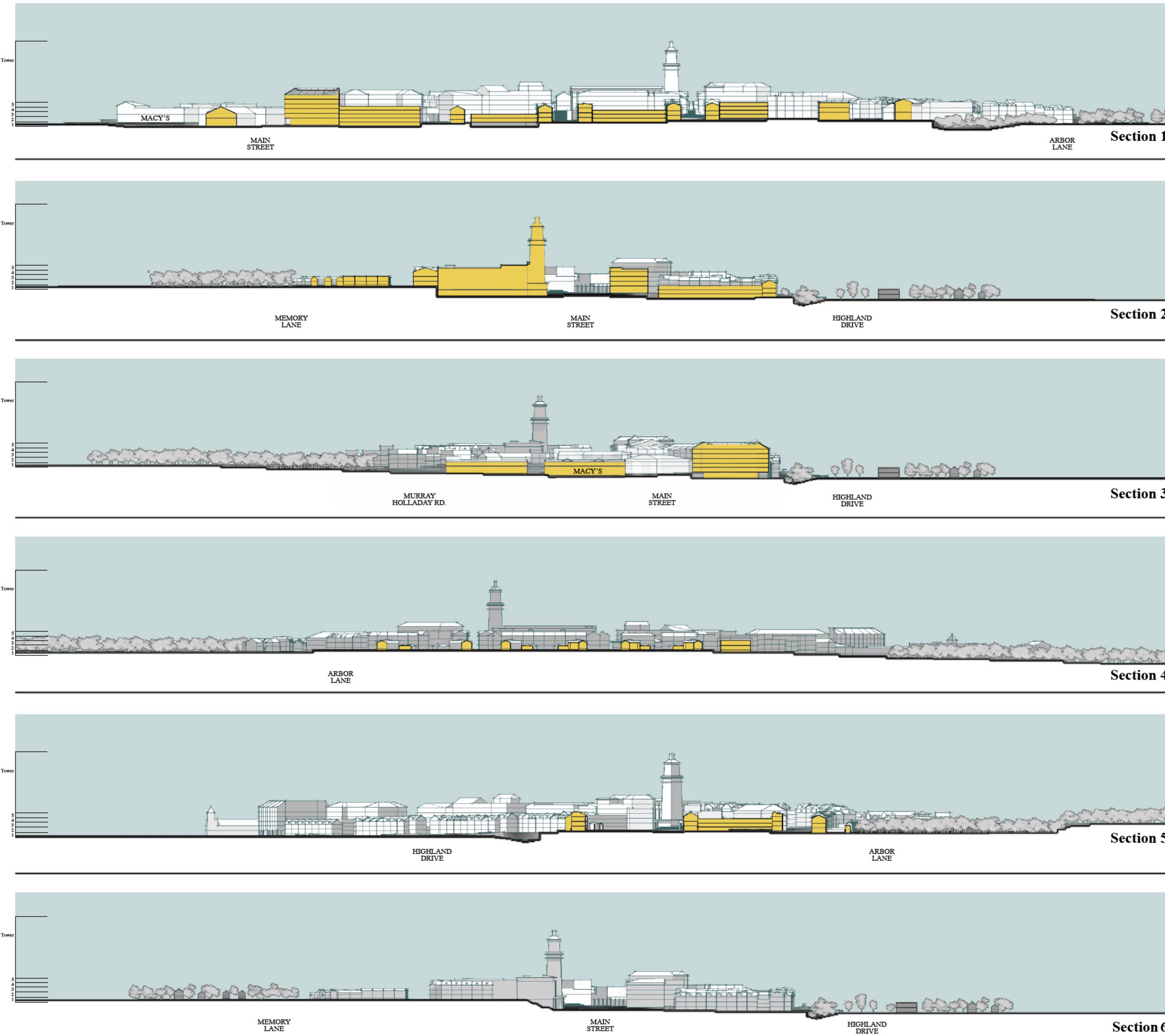
Land Use Regulating Plan - Uses by Story



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Building Massing and Heights Plan



General Height Guidelines

Building Height*:

Restricted:

- Maximum: 40 Feet Height
- Maximum: 35 Feet Height for single family lots greater than .20 acres
- Minimum: No Dwellings shall contain less than one story

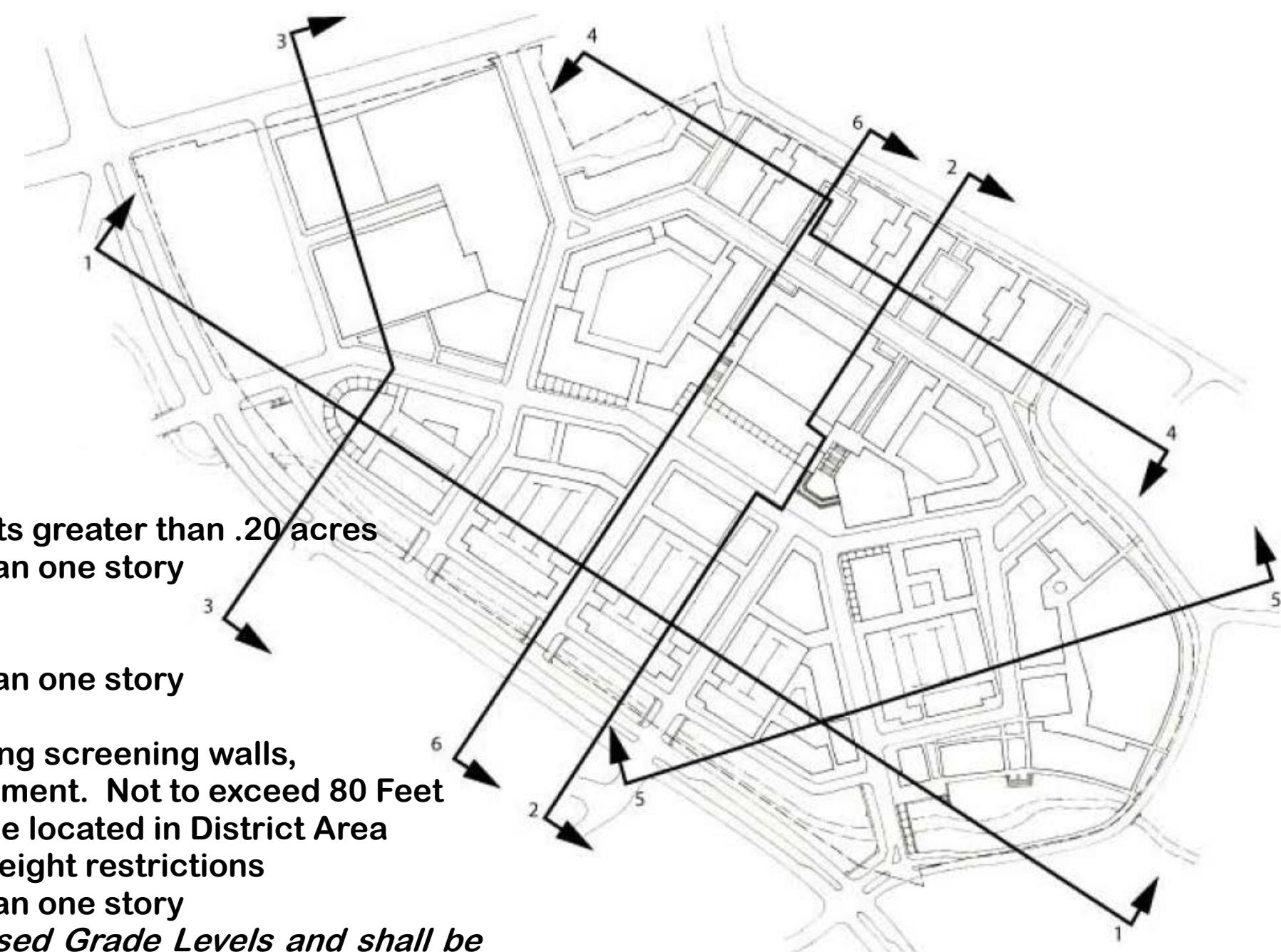
Limited:

- Maximum: 60 Feet Height (4 Stories)
- Minimum: No Dwellings shall contain less than one story

Open:

- Maximum: 90 Feet Height (5 Stories); including screening walls, architectural features and mechanical equipment. Not to exceed 80 Feet Height in 50% or less of Total Square Footage located in District Area
- Architectural Tower Feature not subject to height restrictions
- Minimum: No Dwellings shall contain less than one story

*All Height Measurements are measured on New Proposed Grade Levels and shall be measured from the center point average of each building structure (see page 23 of the SDMP for proposed finished grade elevations)



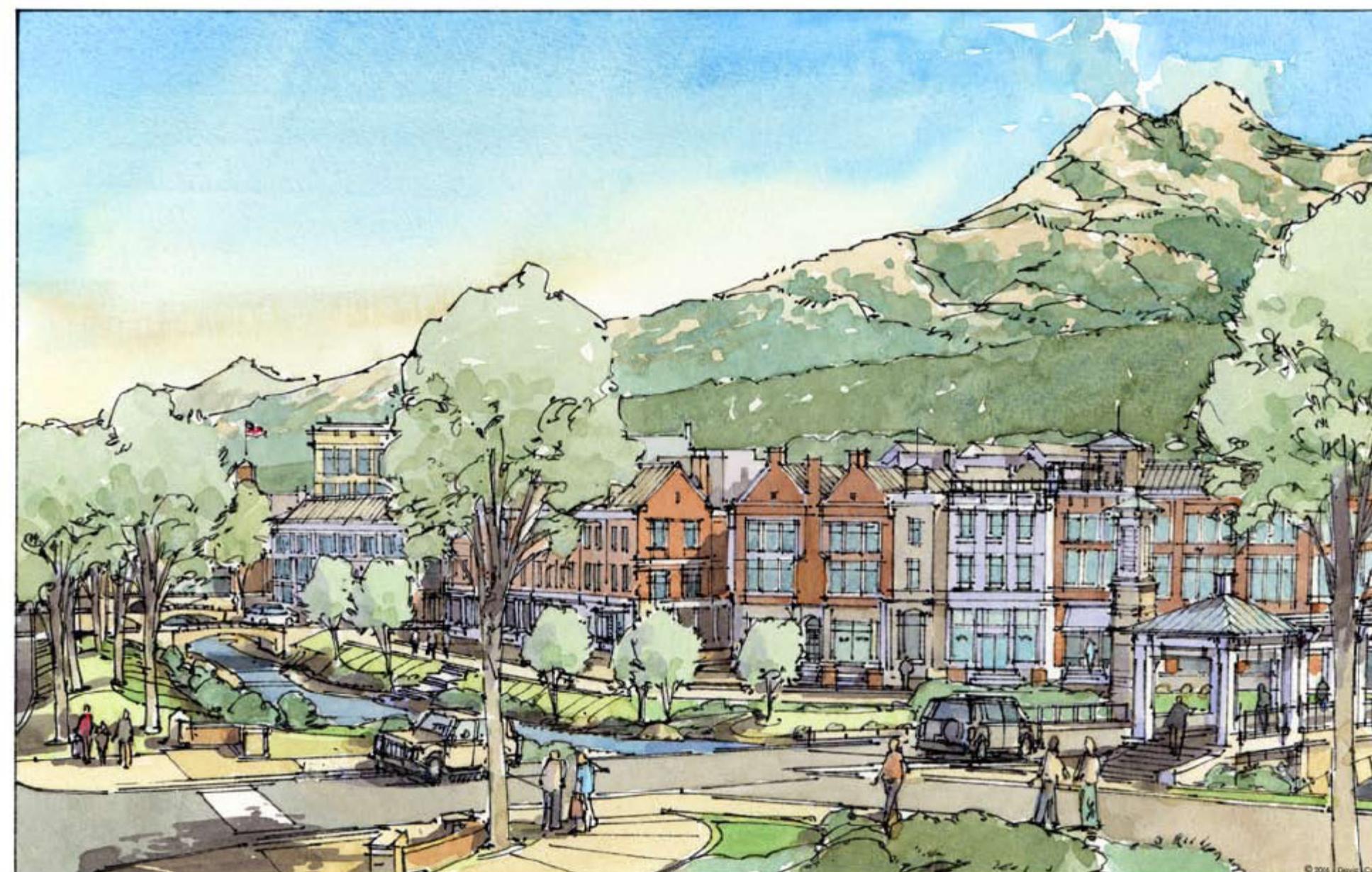
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Conceptual Massing Renderings



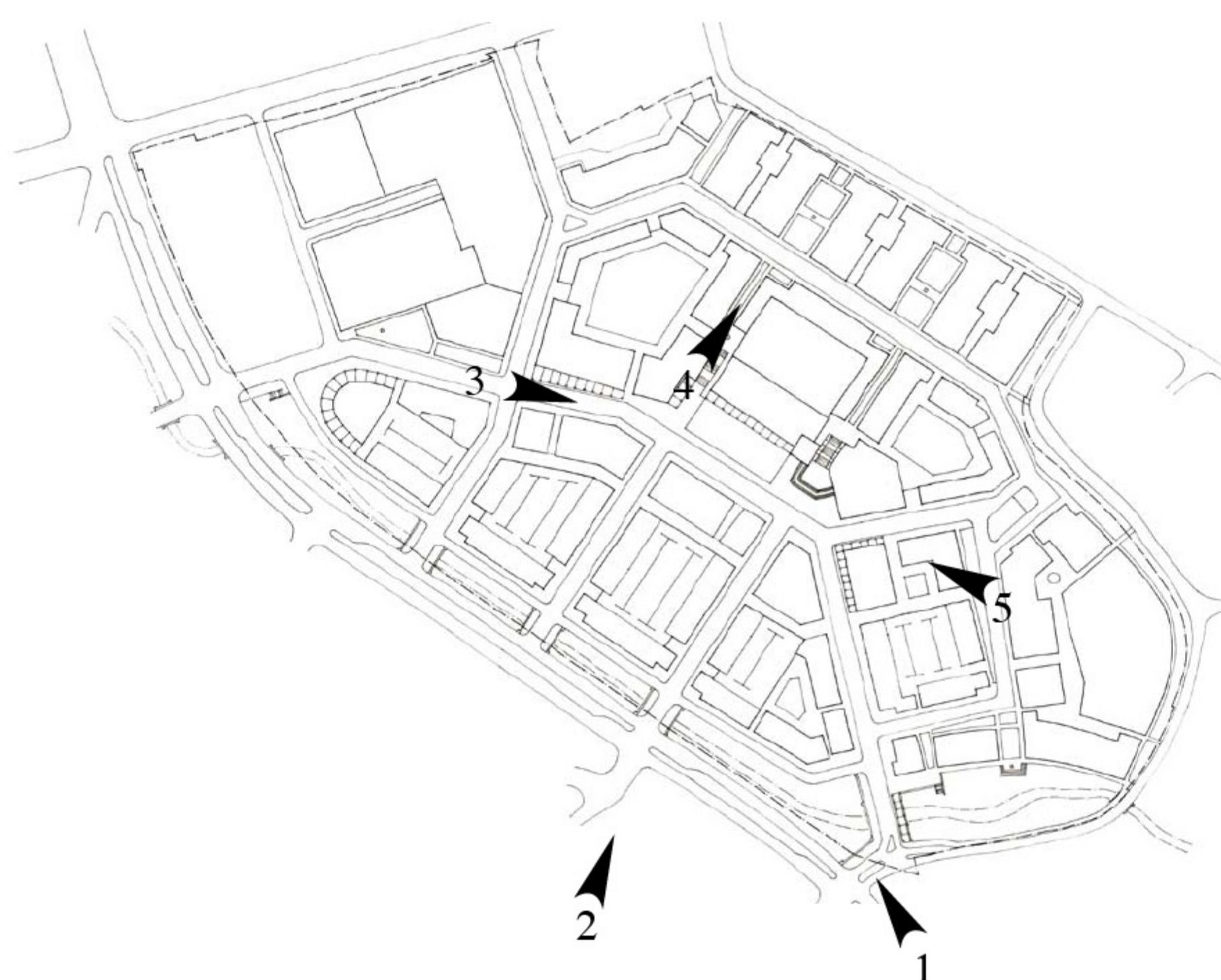
1. Project Aerial



2. Creek View



3. Main Street



4. Townhouse Green



5. Town Center Plaza

Site Parking Plan

Parking Design Standards

A. Size: Required parking stalls shall be rectangular with a minimum width of nine feet (9') and a minimum length of eighteen feet (18'), in accordance with table 1 of this section. If the stall is perpendicular to a curb, the length shall be measured from the curb face. Each parking stall shall have independent access from a driving aisle. A parking stall may contain less than eighteen feet (18') of pavement in length if all of the following conditions are met:

1. The stall has a standard six inch (6") curb face that will allow vehicles to extend over a landscaped area of no less than six feet (6') in width;
2. Each stall contains no less than sixteen feet (16') of pavement in length measured from curb face;
3. No pedestrian pathway or landscaping that prevents a standard vehicle from overhanging the curb is within two feet (2') of any curb face; and
4. All other requirements of this code are met.

B. Location: Required parking stalls shall not be located in delivery areas, service driveways, driving aisles, drive-in stacking lanes, shopping cart storage areas, or areas in front of overhead service doors. Designated loading space shall not encroach into any fire lane or pedestrian pathway.

C. Separation From Rights Of Way: Except as provided above, wheel or bumper guards shall be placed in parking stalls where necessary to prevent any part of a standard sized vehicle from extending beyond a parking stall boundary line, intruding on a pedestrian way, or contacting any wall, fence, or planting. A physical separation or barrier, such as vertical curbs, may be required in order to separate parking stalls from access to a second travel lane.

D. Layout: All off street parking stalls shall be designed in accordance with the dimensions and specifications set forth in table 1 and table 2 of this section.

E. Accessibility Requirements: All parking facilities shall comply with accessibility requirements of the city's then current building code. The number of accessible spaces required by the city's building code as of the enactment of this section is shown in table 3 of this section.

F. Markings: All required parking stalls shall be marked and maintained to be permanently visible.

G. Surface: Required parking stalls, loading spaces, maneuvering areas, and driving aisles shall be paved with asphalt, concrete, paving stone or masonry to a sufficient thickness to withstand repeated vehicular traffic, and shall be constructed according to the city's street standards and specifications.

H. Tables: **

TABLE 1	A (Angle of Stalls)	B (Width of Stalls)	C (Length of Stalls)	D (Width of Aisle)
0°	10'	22'	20 (12")	
30°	9'	18'	20 (15")	
45°	9'	18'	20 (15")	
60°	9'	18'	24'	
90°	9'	18'	24'	

* One-way traffic only.

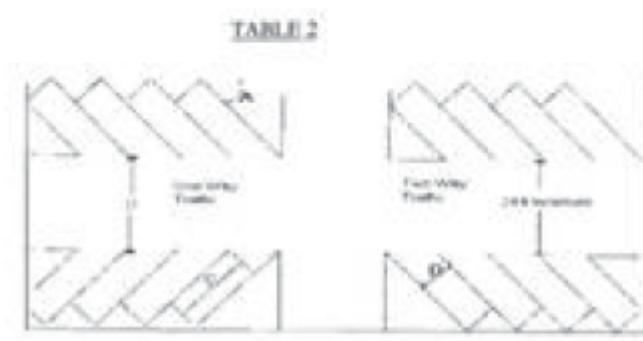


TABLE 2	A (Angle of Stalls)	B (Width of Stalls)	C (Length of Stalls)	D (Width of Aisle)
0°	10'	22'	20 (12")	
30°	9'	18'	20 (15")	
45°	9'	18'	20 (15")	
60°	9'	18'	24'	
90°	9'	18'	24'	

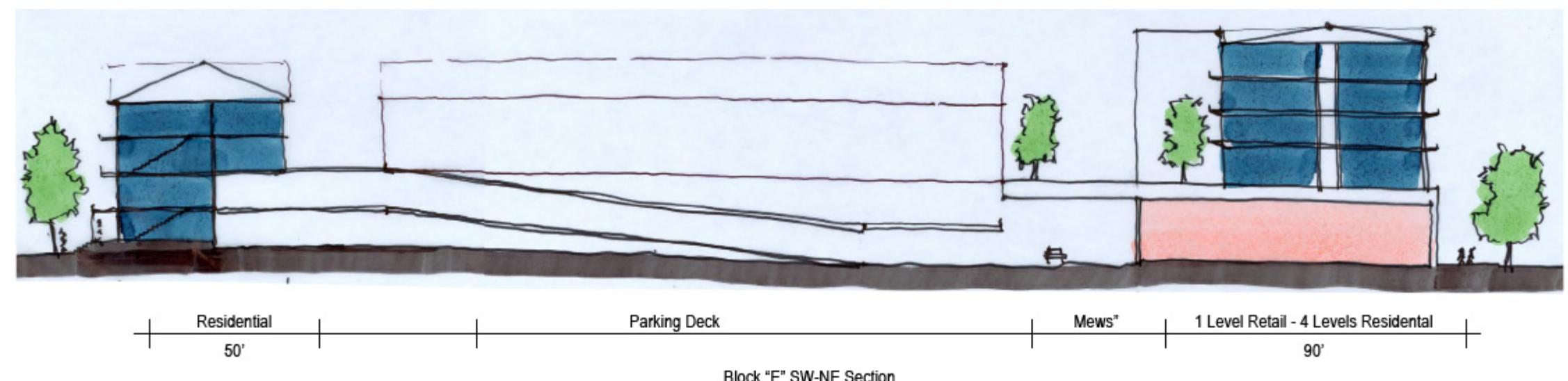
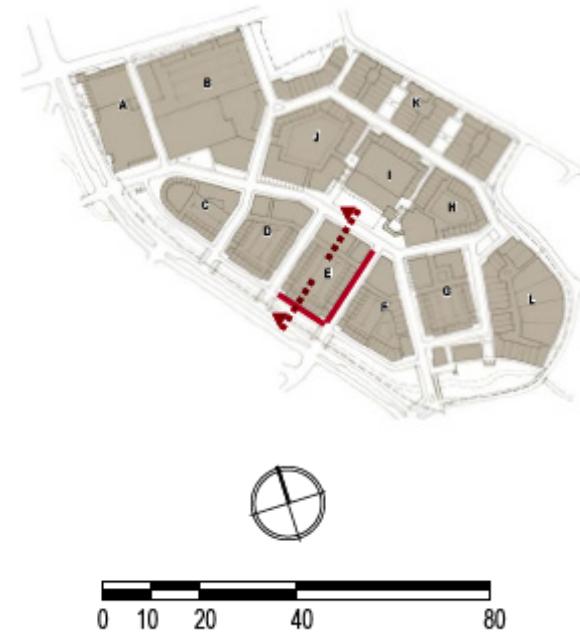
TABLE 3	Total Parking Stalls Provided On Property	Required Number of Accessible Spaces
1 to 25	1	
26 to 50	2	
51 to 75	3	
76 to 100	4	
101 to 150	5	
151 to 200	6	
201 to 300	7	
301 to 400	8	
401 to 600	9	
501 to 1,000	2 percent of total	
1,001 and over	20 plus 1/100 of total over 1,000	

I. Parking Structures:

1. May cover all buildable area of a block.
2. Shall generally be concealed by liner buildings. Liner buildings shall be built up to the frontage lines and have a minimum depth of 20 feet.
3. The facade of a parking garage that is not concealed behind habitable space shall be screened to conceal all internal elements such as plumbing pipes, ducts and lighting. ramping shall be internalized and spandrels shall not be exposed.
4. Parking structure vehicular access at frontage lines shall be a maximum of 42 feet wide and shall be setback 20 feet from the frontage line.
5. Parking structures shall provide at least one pedestrian entrance directly onto the sidewalk in addition to any internal connections to the building served.

** Site may consist of both parallel and angled parking.

Conceptual Parking Deck Cross Section Sample



**All Minimum Parking Requirements shall be required prior to each subdivision approval.

Draft Date: 12/11/07

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Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO.
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General Parking Guidelines*

Parking Stalls (Reference from Walker/Desman)

Site Parking Requirements Table

	Quantity	Ratio	Total Spaces	Max/Min
Retail	641,516	4.5/1000	2,887	Maximum
	481,137		2,165	Minimum
Office	130,709	3/1000	392	Maximum
	98,032		294	Minimum
Residential	614	1.86/DU	1,142	Maximum
	454		844	Minimum
Total			4,421	Maximum
			3,303	Minimum
Mixed Use Shared Parking Reduction		20%	-	Maximum
			661	Minimum
GRAND TOTAL			4,421	Maximum
			2,643	Minimum

*All Parking Ratios and Final Stall Counts subject to modification determined by Shared Parking Analysis and by overall Master Plan. General Parking Guidelines are calculated by ULI and ICSC Standards and Guidelines.

Site Average Parking Analysis



6602 East 75th Street Suite 210
Indianapolis, IN 46250
Voice: 317.842.6890
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www.walkerparking.com

July 31, 2007

Walker Parking Consultants (or "Walker") is pleased to submit our findings regarding the shared parking analysis for the proposed Cottonwood Mall redevelopment in Holladay, Utah. We conclude that the planned parking supply of 4,253 parking spaces will be sufficient to accommodate the projected demand at Cottonwood Mall.

Walker's study projects that peak conditions will occur on a weekday in December at approximately 1:00 PM, at which time nearly 3,480 parking spaces will be demanded, a surplus to the planned supply of 4,253 parking spaces. Walker believes that the planned garages, lots and on street parking will be able to support peak parking conditions at Cottonwood Mall.

The weekend peak demand for Cottonwood Mall is projected to be about 3,425 parking spaces. This weekend peak demand is projected to occur at approximately 7:00 PM in December, and can be comfortably supported given the planned supply of 4,253 spaces. The following details our methodologies and findings regarding the Cottonwood Mall redevelopment.

SHARED PARKING DEMAND

When the provided program data was input into the model, along with adjustments for modal split and captive factors, the synergy between the different land uses and opportunities for shared parking could be identified. The peak shared parking demand of 3,480 spaces is projected to occur at 1:00 PM on a Weekday in December. This is a 25 percent reduction from the number of parking spaces required if all of the land uses were considered individually.

DRIVING RATIOS

Adjustments were made to account for the number of patrons who arrive at the development by means other than personal vehicle. Based on 2000 U.S. Census data, approximately 95 percent of employees drive or ride to work in a personal vehicle to Holladay, Utah. That is, it is assumed that 95% of the employees on the site arrive via personal vehicle, while the other 5% utilize another means of transportation, such as mass transit, bicycle, walking or riding with another driver.

NON-CAPTIVE RATIOS

Adjustments were also made to account for patrons on the site visiting more than one land use on the site. In this case, employees were assumed to visit the restaurants and retail uses. Demand is further reduced through the assumption that residents will visit the retail and restaurant uses. During the evenings, people will choose to walk to multiple locales instead of returning to their cars, and driving to their new destinations. A similar situation will occur during daytime hours. Office employees, over their lunch or after work, will choose to visit nearby retail and restaurant uses.

TIME OF DAY ADJUSTMENTS

The shared parking demand is the result of the model evaluating parking demand for each land use from 6:00 AM to midnight on weekdays and Saturdays for every month of the year. An additional analysis of the last week of December is included and considered a "thirteenth month." Special analysis is required due to the difference in parking demand patterns during this week of the month, as opposed to the first three weeks of December.

SHARED PARKING FINDINGS

Based on the analysis performed, the resultant peak demand after considering the variations of each of the land use demands by hour and month together is projected to occur at 1:00 PM on a Weekday in December. Walker projects a peak parking demand of approximately 3,480 spaces at this time. This equates to a blended project ratio, excluding residential, of 4.37 spaces per 1,000 sf.

No parking deficits are projected to occur during the year. The following graph illustrates the parking demand, by uses on the design peak demand day from 6:00 AM to Midnight. Based on the planned supply of 4,253 spaces, adequate parking is projected. The following graph and table identify parking demand by user in the peak month (December). A monthly demand graph follows.

SUMMARY OF FINDINGS

Based on the above analysis, Walker projects that adequate parking is planned to serve the proposed Cottonwood Mall redevelopment in Holladay, Utah. Changes to any of the stated assumptions, including changes to the location or quantity of the stated program data, may result in a change in the number of parking spaces required. These findings assume program and planning data as received as of July 26, 2007.

Regards,

WALKER PARKING CONSULTANTS

Judy L. Todd

Judy L. Todd, CPP
Parking Consultant

UNSHARED PARKING DEMAND

Base parking demand ratios, as found in the UI Shared Parking model, as developed with Walker Parking Consultants, were used to determine the parking requirements for the development as if each component were a free-standing development.

Table 1: Base Parking Demand Ratios

	Weekdays		Weekends	
	Base Ratio Unit	Base Ratio Units	Base Ratio Unit	Base Ratio Units
Community Shopping Center (<400 ksf)	2.90 /ksf GLA	3.20 /ksf GLA		
Employee	0.70 /ksf GLA	0.80 /ksf GLA		
Subtotal	3.60 /ksf GLA	4.00 /ksf GLA		
Food/Casual Dining	15.25 /ksf GLA	17.00 /ksf GLA		
Employee	2.75 /ksf GLA	3.00 /ksf GLA		
Subtotal	18.00 /ksf GLA	20.00 /ksf GLA		
Fast Food	12.75 /ksf GLA	12.00 /ksf GLA		
Employee	2.25 /ksf GLA	2.00 /ksf GLA		
Subtotal	15.00 /ksf GLA	14.00 /ksf GLA		
Cineplex	0.19 /seat	0.26 /seat		
Employee	0.01 /seat	0.01 /seat		
Subtotal	0.20 /seat	0.27 /seat		
Office 25k to 100k sq ft	0.30 /ksf GLA	0.03 /ksf GLA		
Employee	3.34 /ksf GLA	0.33 /ksf GLA		
Subtotal	3.64 /ksf GLA	0.36 /ksf GLA		
Medical/Dental Office	3.00 /ksf GLA	3.00 /ksf GLA		
Employee	1.50 /ksf GLA	1.50 /ksf GLA		
Subtotal	4.50 /ksf GLA	4.50 /ksf GLA		
Grocery Store	3.50 /ksf GLA	3.70 /ksf GLA		
Employee	0.60 /ksf GLA	0.50 /ksf GLA		
Subtotal	4.10 /ksf GLA	4.20 /ksf GLA		

Sources

1. Shared Parking, 2nd Edition. Urban Land Institute, International Council of Shopping Centers, 2002
2. Parking Generation, Third Edition. Washington DC: Institute of Transportation Engineers, 2004
3. Data collected by Team Members
4. John W. Dorsett, "Parking Requirements for Health Clubs" The Parking Professional April 2004
5. Gerald Salzman, "Hotel Parking: How Much is Enough?" Urban Land, January 1988
6. Walker Parking Consultants

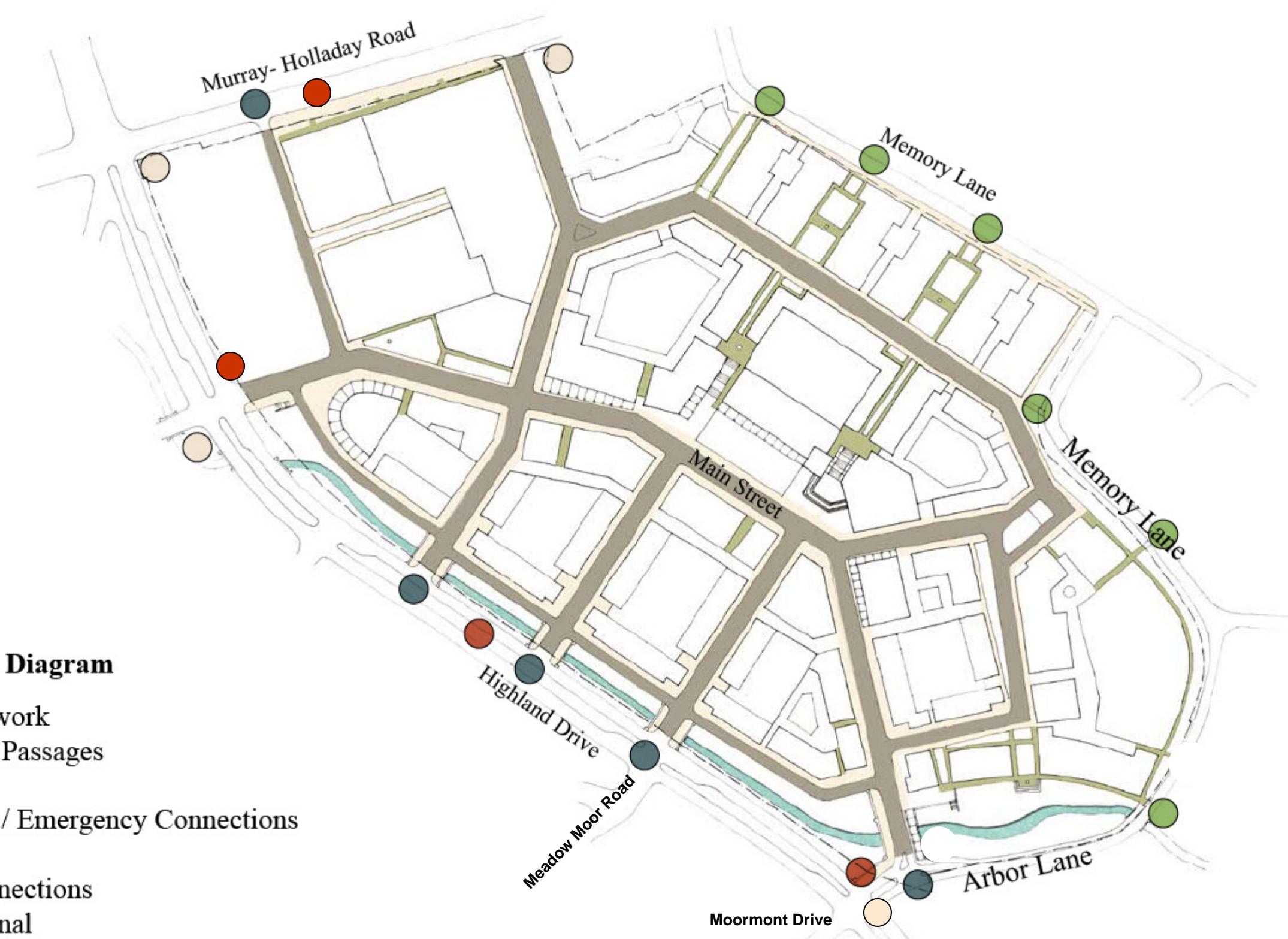
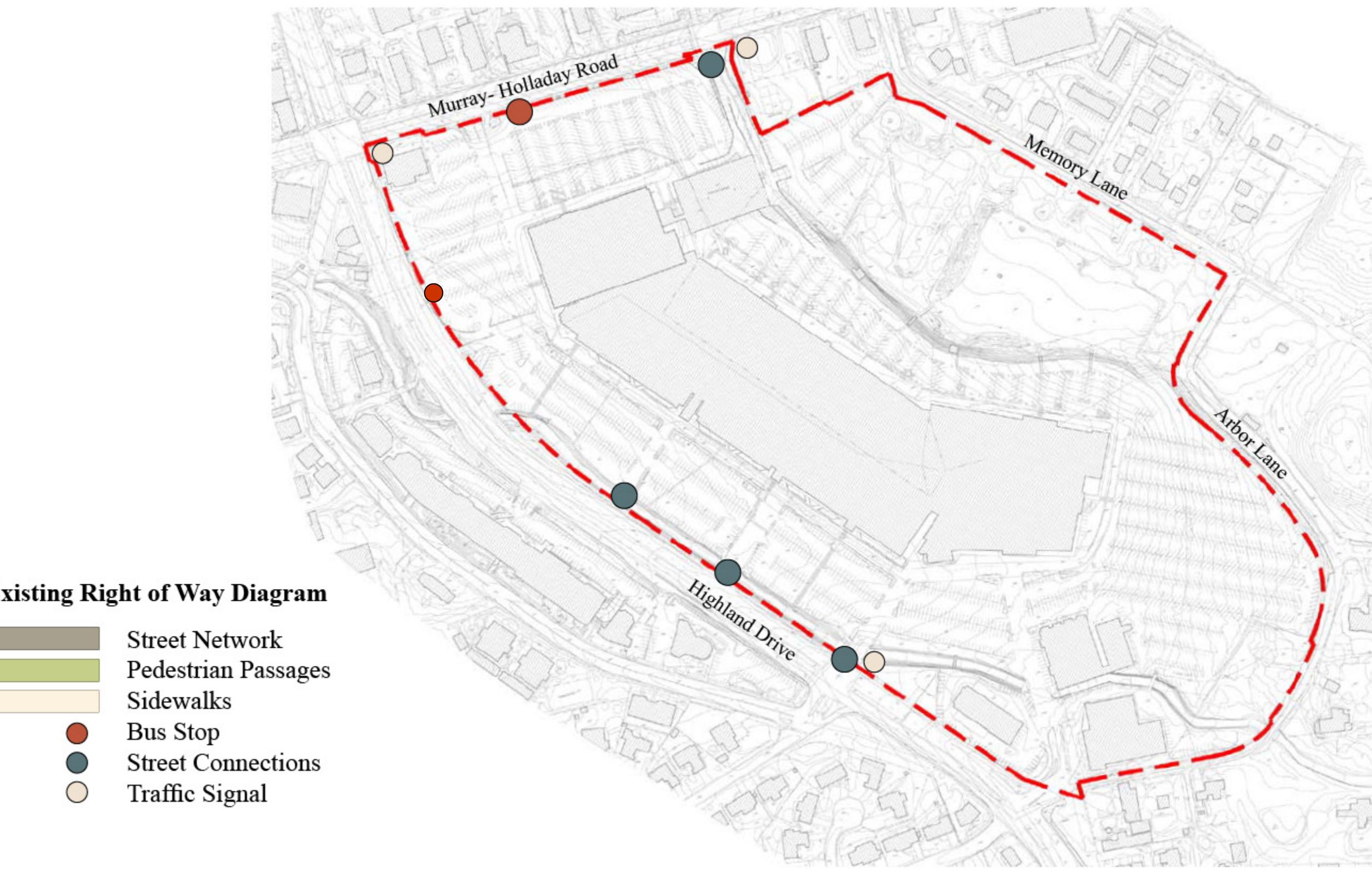
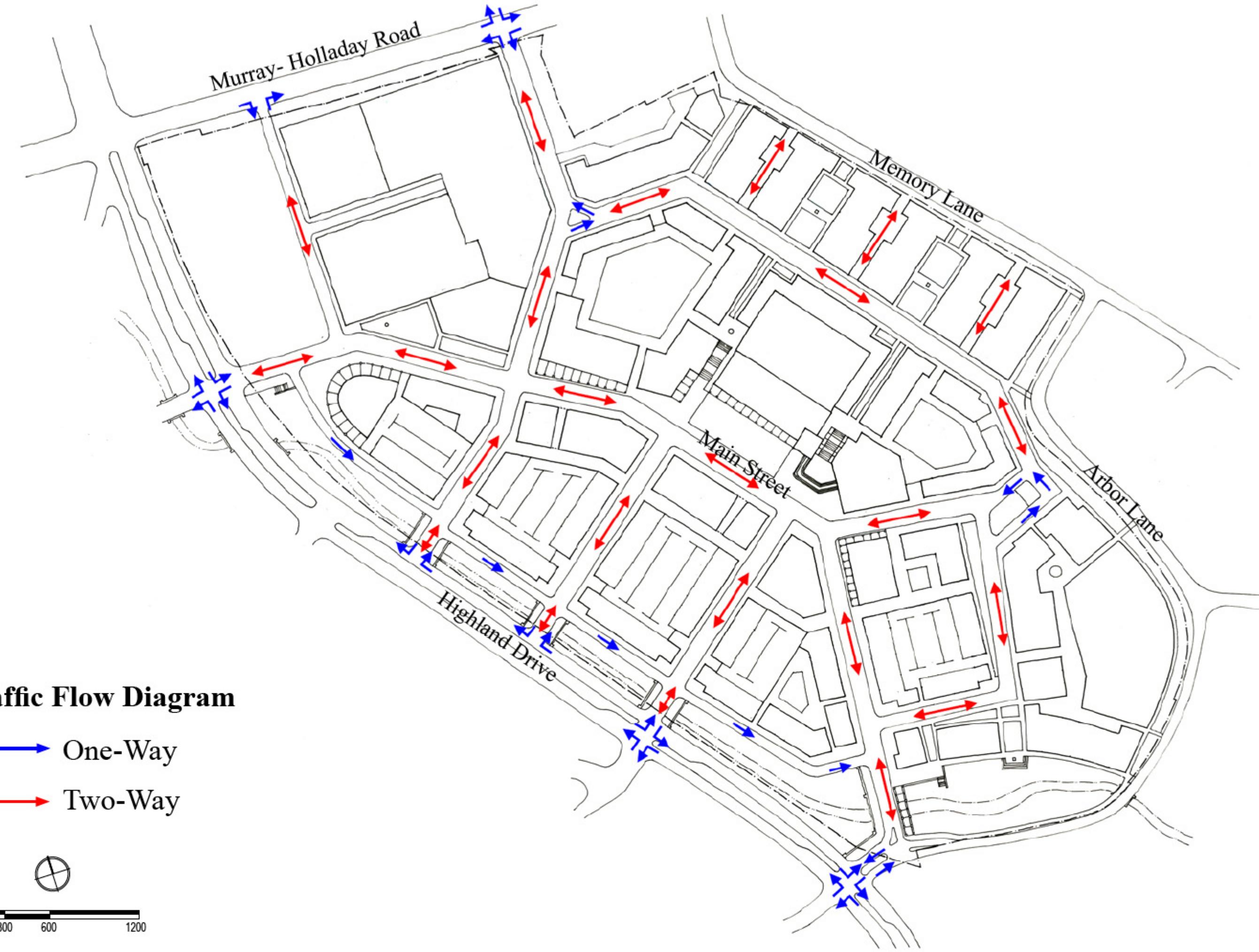
Table 2: Unshared Parking Demand (Maximum parking demand)					
Community Shopping Center (<400 ksf)	Weekdays		Weekends		
	Quantity	Base Ratio Unit	Unadj Pkg Sp	Base Ratio Unit	Unadj Pkg Sp
Employee	343,892	0.70 /ksf GLA	255	0.80 /ksf GLA	291
Food/Casual Dining	44,291	15.25 /ksf GLA	675	17.00 /ksf GLA	751
Employee	2,751	2.25 /ksf GLA	622	0.00 /ksf GLA	124
Fast Food	22,052	12.75 /ksf GLA	281	12.00 /ksf GLA	265
Employee	2,252	0.50 /ksf GLA	50	0.00 /ksf GLA	44
Cineplex	2,696	0.19 /seat	512	0.28 /seat	701
Employee	534	0.15 /seat	27	0.01 /seat	27
Residential Guest	534	1.70 /unit	908	1.70 /unit	908
Residential Reserved	58,524	0.30 /ksf GLA	18	0.03 /ksf GLA	2
Employee	9,341	0.34 /ksf GLA	197	0.33 /ksf GLA	20
Medical/Dental Office	50,000	3.00 /ksf GLA	150	3.00 /ksf GLA	150
Employee	1,500	1.50 /ksf GLA	75	1.50 /ksf GLA	75
Grocery Store	50,000	3.50 /ksf GLA	757	3.70 /ksf GLA	825
Employee	1,500	0.60 /ksf GLA	30	0.50 /ksf GLA	25
Subtotal Customer/Guest Spaces			2,959		3,307
Subtotal Employee/Resident Spaces			757		616
Subtotal Reserved Spaces			908		908
Total Parking Spaces			4,618		4,937

Table 3: Shared Parking Demand

	WEEKDAY					
	Unadj Month Adj Demand December	1:00 PM	Pl. Hr Adj	Non Captive Daytime	Drive Ratio	Demand December 1:00 PM
Community Shopping Center (<400 ksf)	1,053	100%	100%	90%	100%	950
Employee	1,150	100%	75%	95%	100%	929
Food/Casual Dining	482	100%	75%	80%	100%	409
Employee	123	100%	90%	90%	100%	95
Fast Food	281	100%	100%	55%	100%	154
Employee	50	100%	100%	100%	100%	48
Cineplex	27	50%	60%	100%	95%	8
Employee	80	100%	20%	100%	100%	16
Residential Guest	80	100%	20%	100%	100%	90
Residential Reserved	900	100%	100%	100%	100%	908
Employee	18	100%	45%	100%	95%	8
Medical/Dental Office	197	100%	90%	100%	100%	168
Employee	75	100%	100%	100%	100%	71
Grocery Store	175	100%	100%	100%	100%	175
Employee	30	100%	100%	100%	95%	29
Subtotal Customer/Guest Spaces	2,873			1,884		
Subtotal Employee Spaces	701			579		
Subtotal Resident Spaces	988			924		
Total Parking Spaces	4,618			3,479		
% reduction						25%

	WEEKEND						Demand December 7:00 PM
	Unadj Month Adj Demand December	7:00 PM	Evening	Pl. Hr Adj	Non Captive Evening	Drive Ratio	
Community Shopping Center (<400 ksf)	1,164	100%	75%	95%	100%	929	
Employee	291	100%	80%	100%	95%	942	
Food/Casual Dining	134	100%	100%	100%	95%	127	
Employee	265	100%	80%	62%	100%	131	
Cineplex	44	100%	90%	100%	95%	38	
Employee	701	60%	80%	100%	95%	570	
Residential Guest	80	100%	100%	100%	100%	80	
Residential Reserved	908	100%	100%	100%	100%</td		

Transportation Thoroughfares



Traffic Control Plan During Construction

During Construction the following guidelines will be enforced in order to mitigate traffic impacts on neighborhood and surrounding community:

- Limited Construction Vehicle Access on Memory and Arbor Lanes
- Construction Access Points will ONLY be allowed on Highland Drive and Murray-Holladay Road
- Egress/Ingress for Site Construction Access to vehicles Prohibited on Arbor and Memory Lanes
- Signs will be placed on property limiting access for construction vehicles in neighborhood
- 24/7 Security Access will be provided to monitor Site Access

Traffic Control and Pedestrian Paths Plans

Draft Date: 12/11/07



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Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
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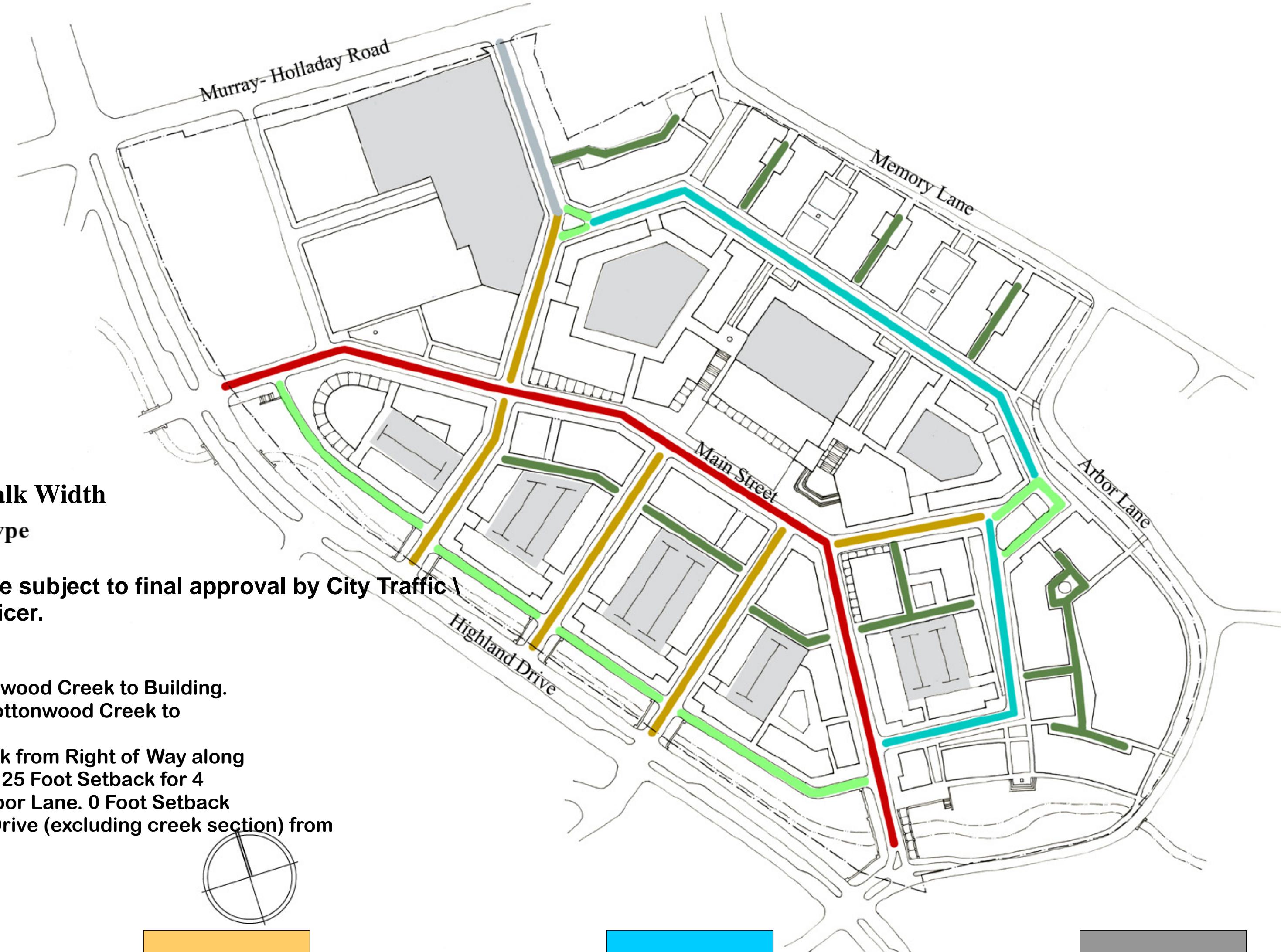
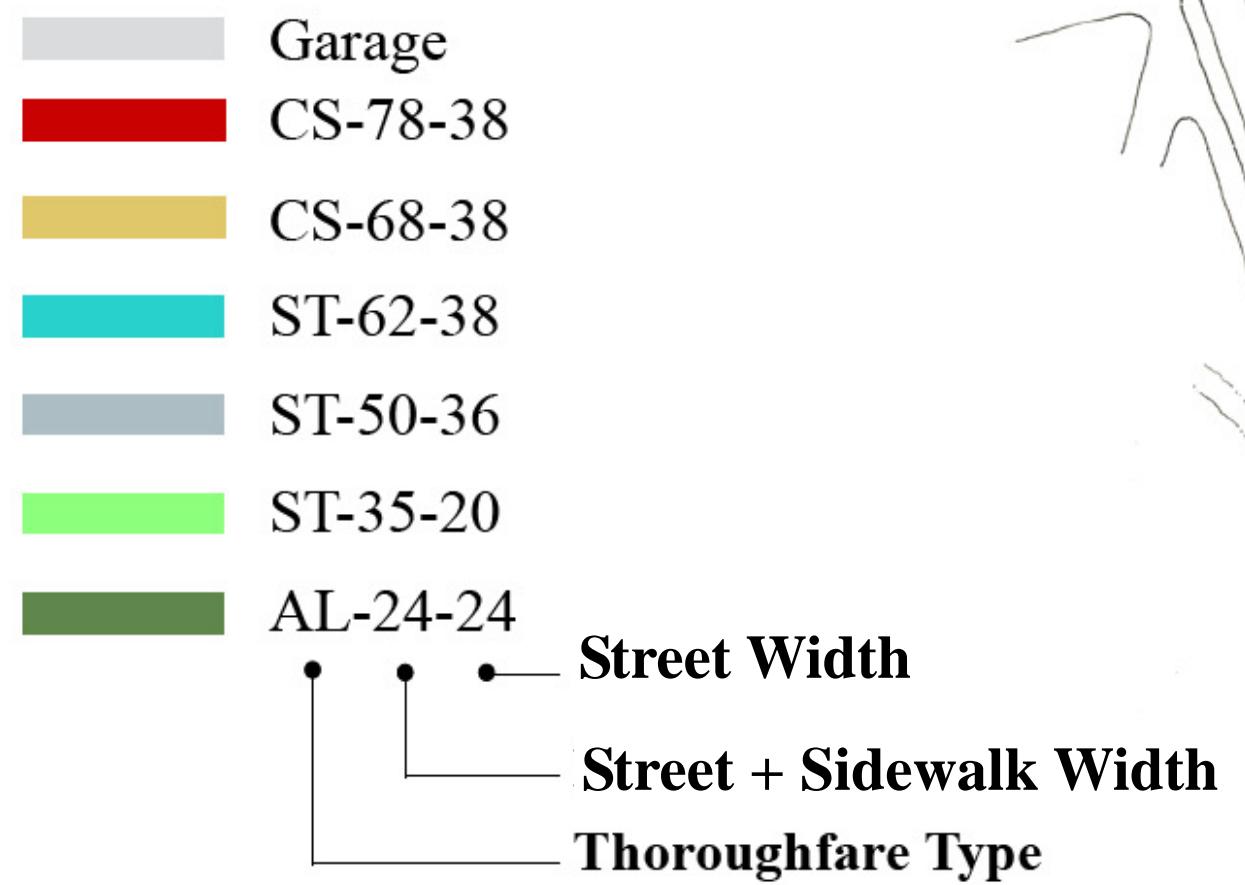
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Thoroughfare Types and Street Cross Sections

Thoroughfare Types

AL: Alley
ST: Street
CS: Commercial Street

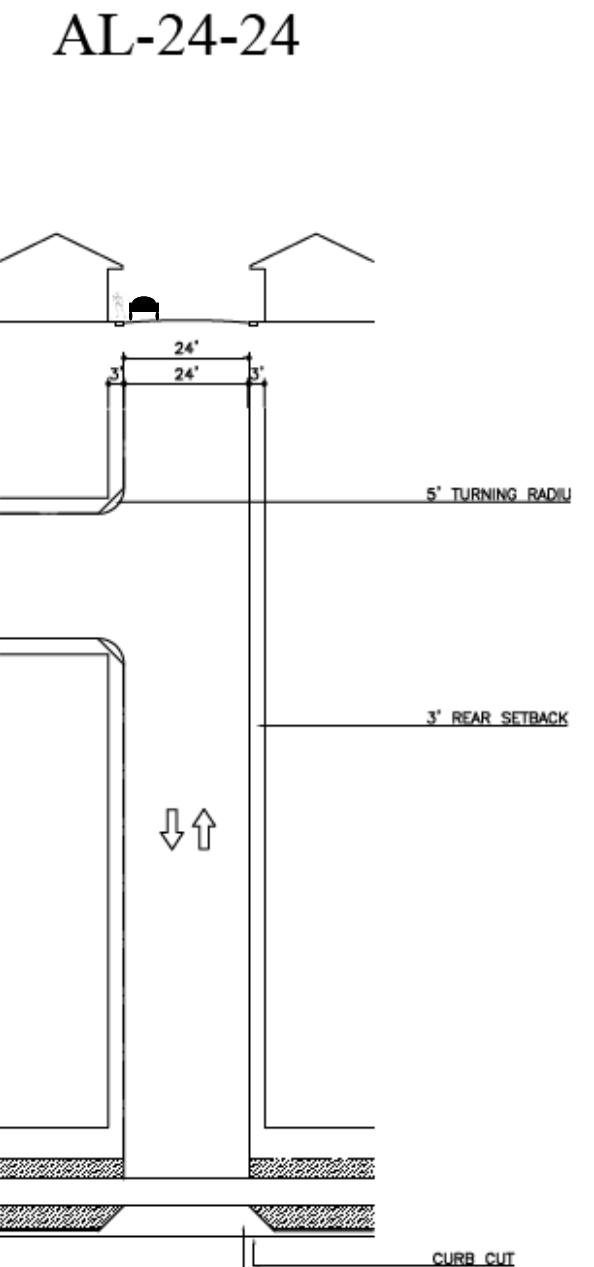
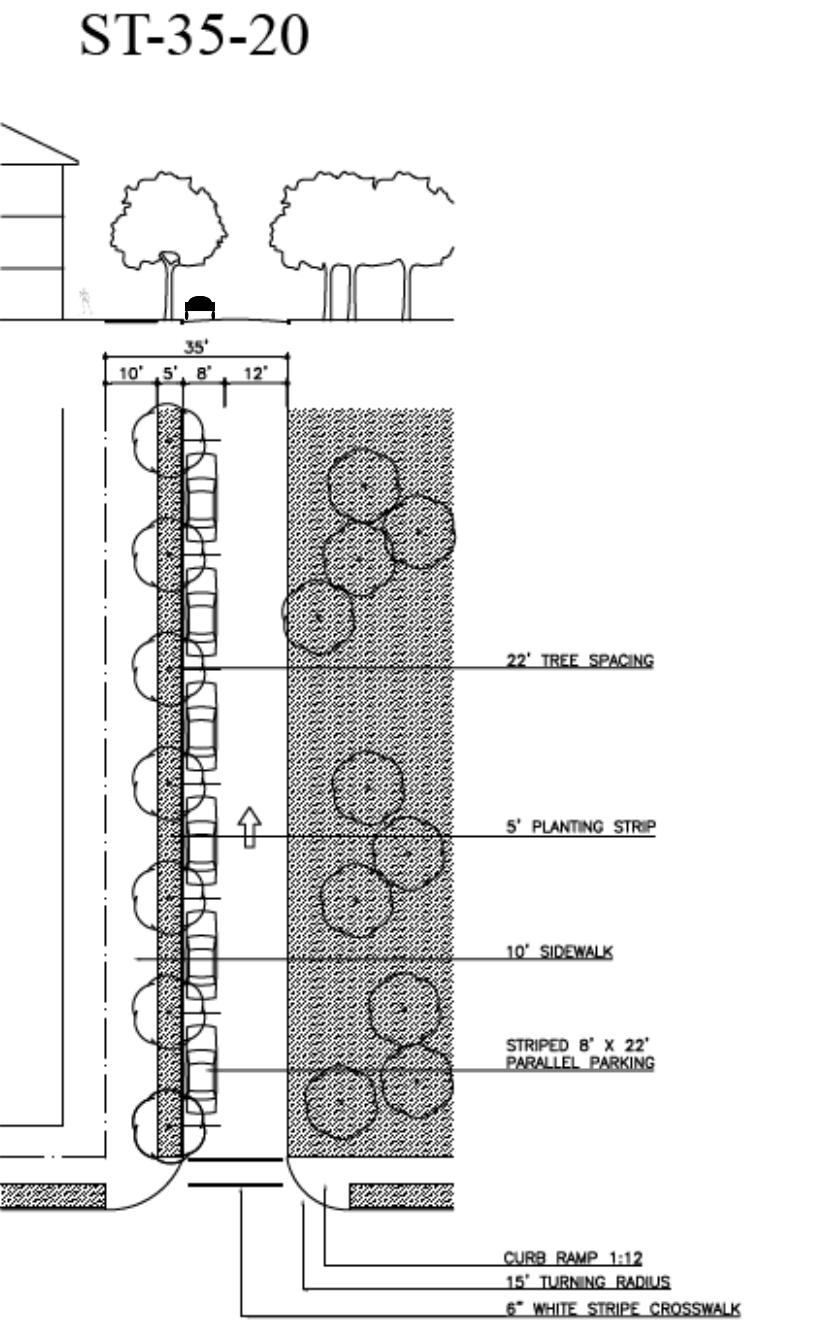
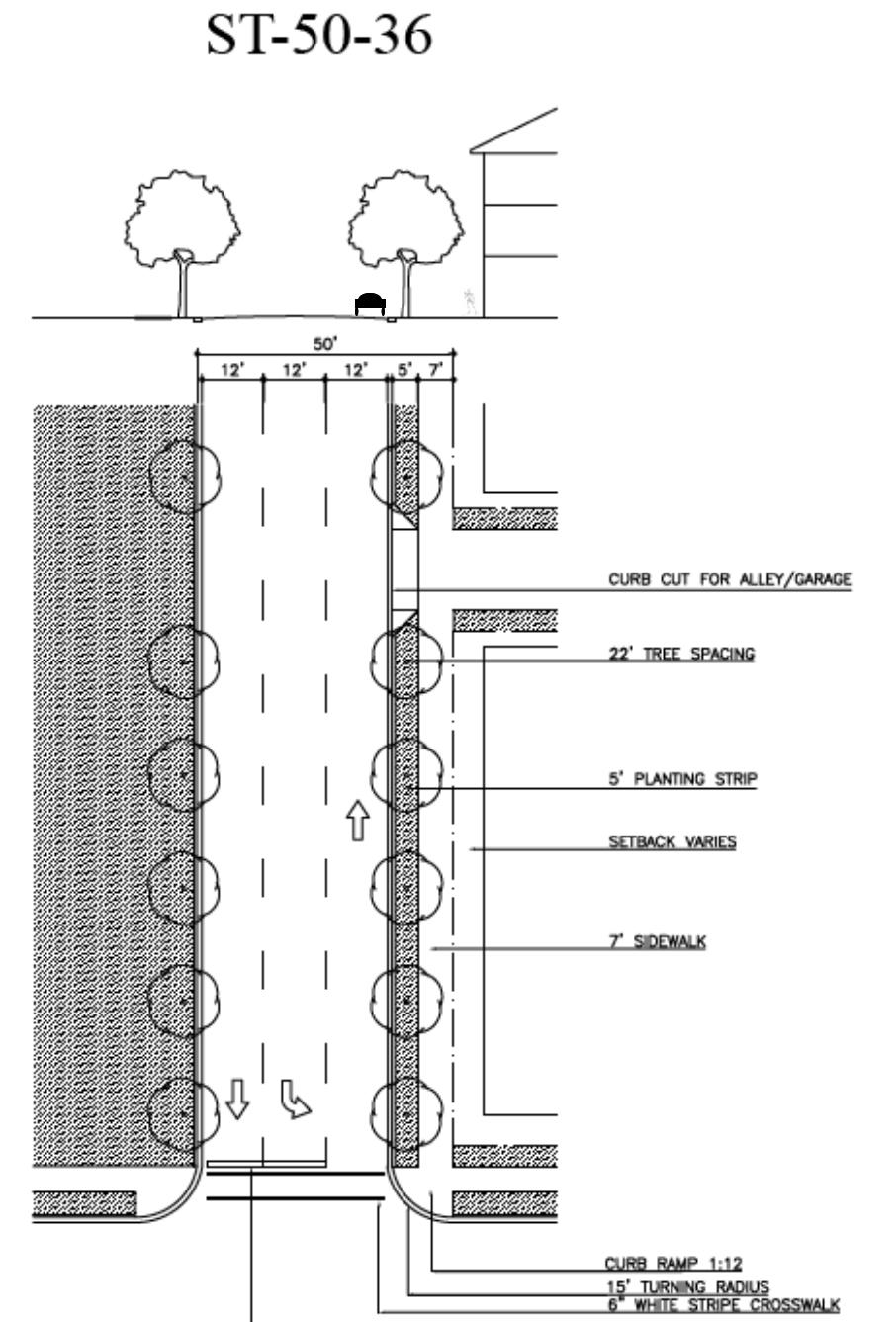
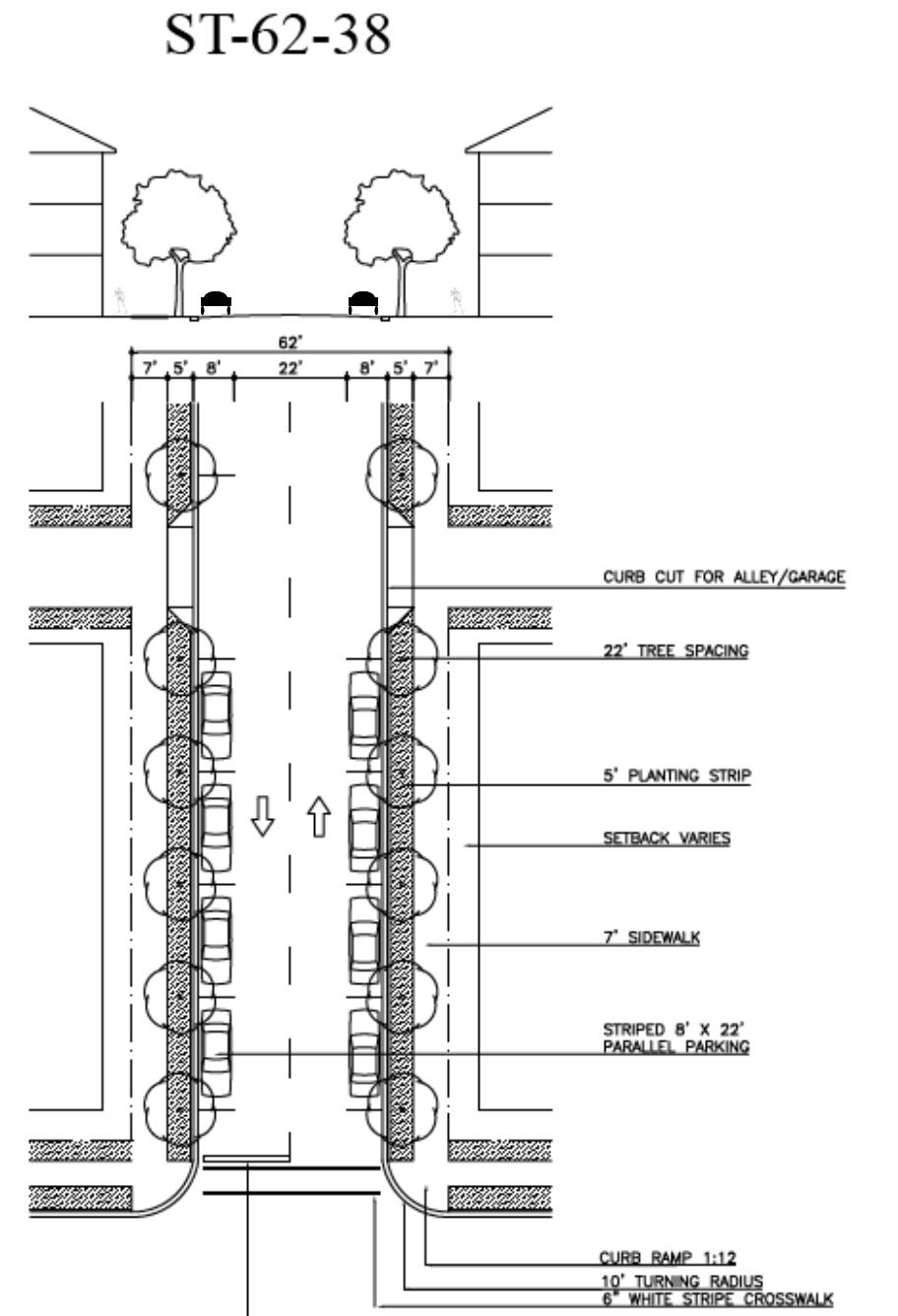
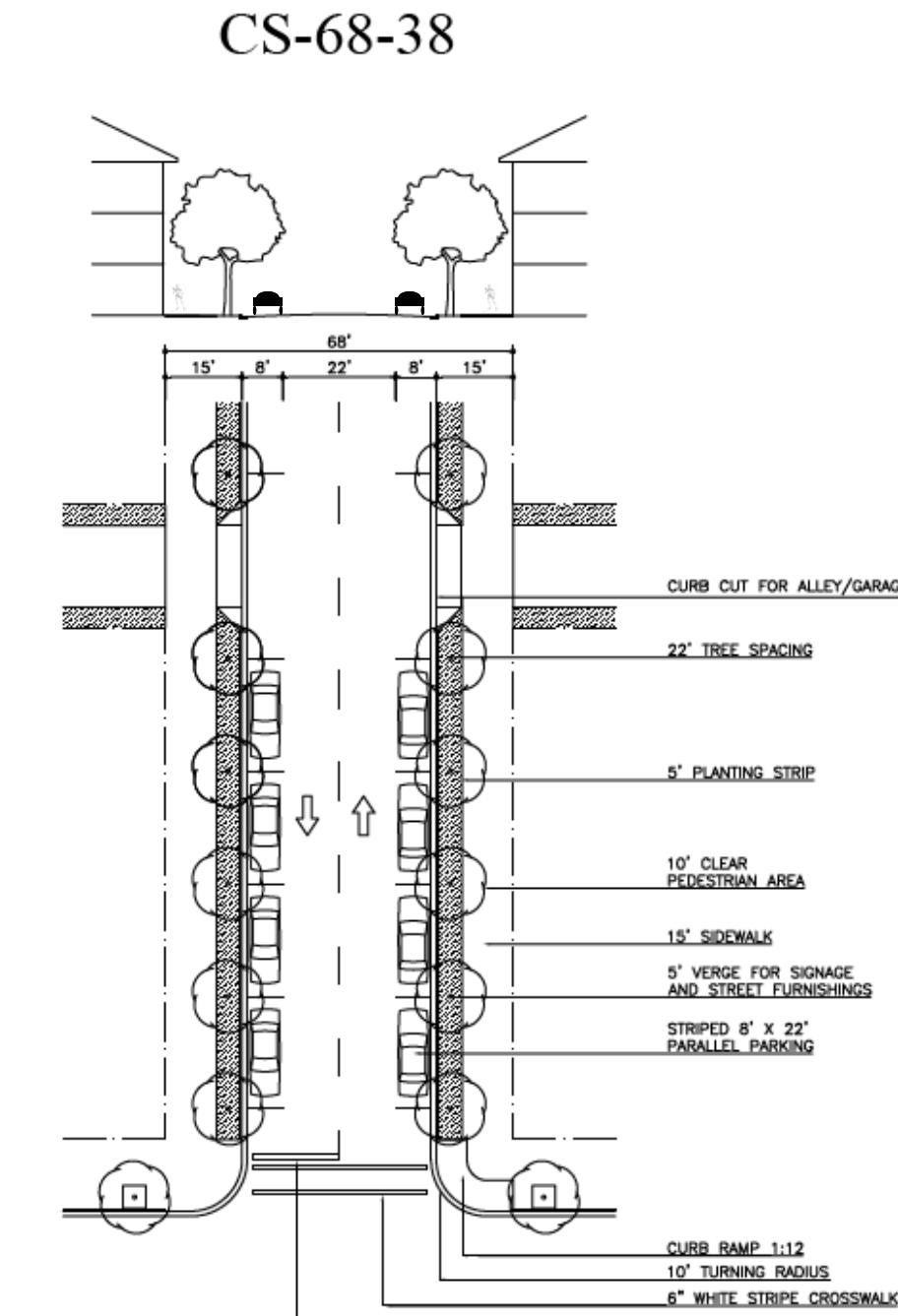
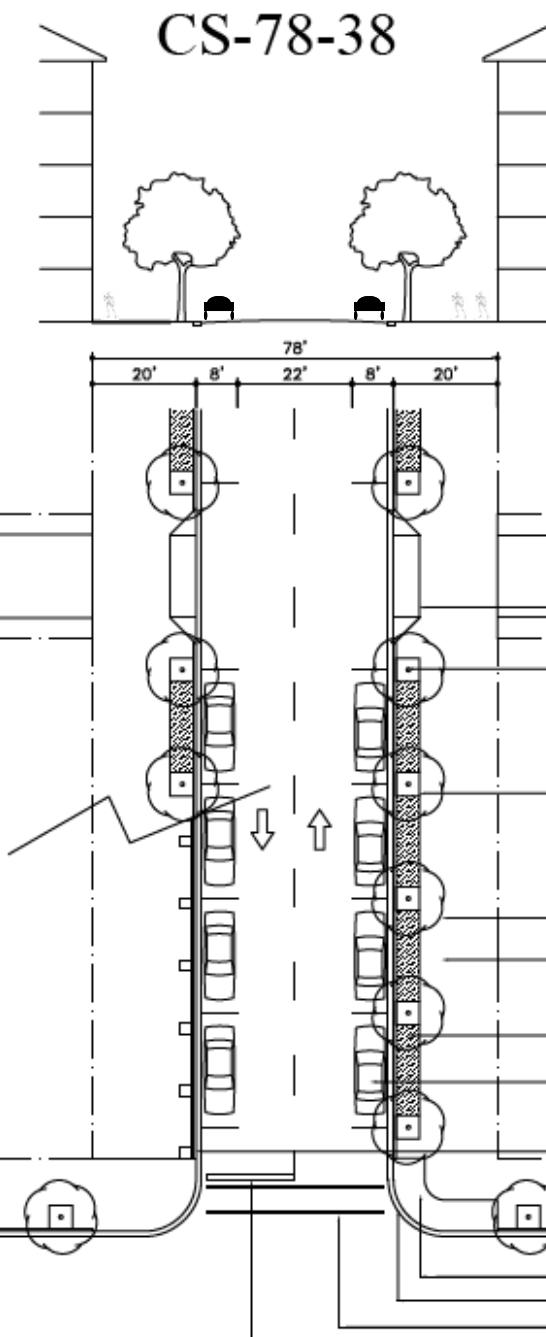
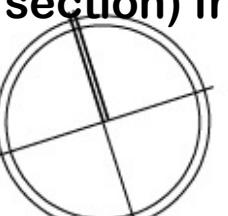


All turning radii on street cross-sections are subject to final approval by City Traffic Engineer and the City's Fire Prevention Officer.

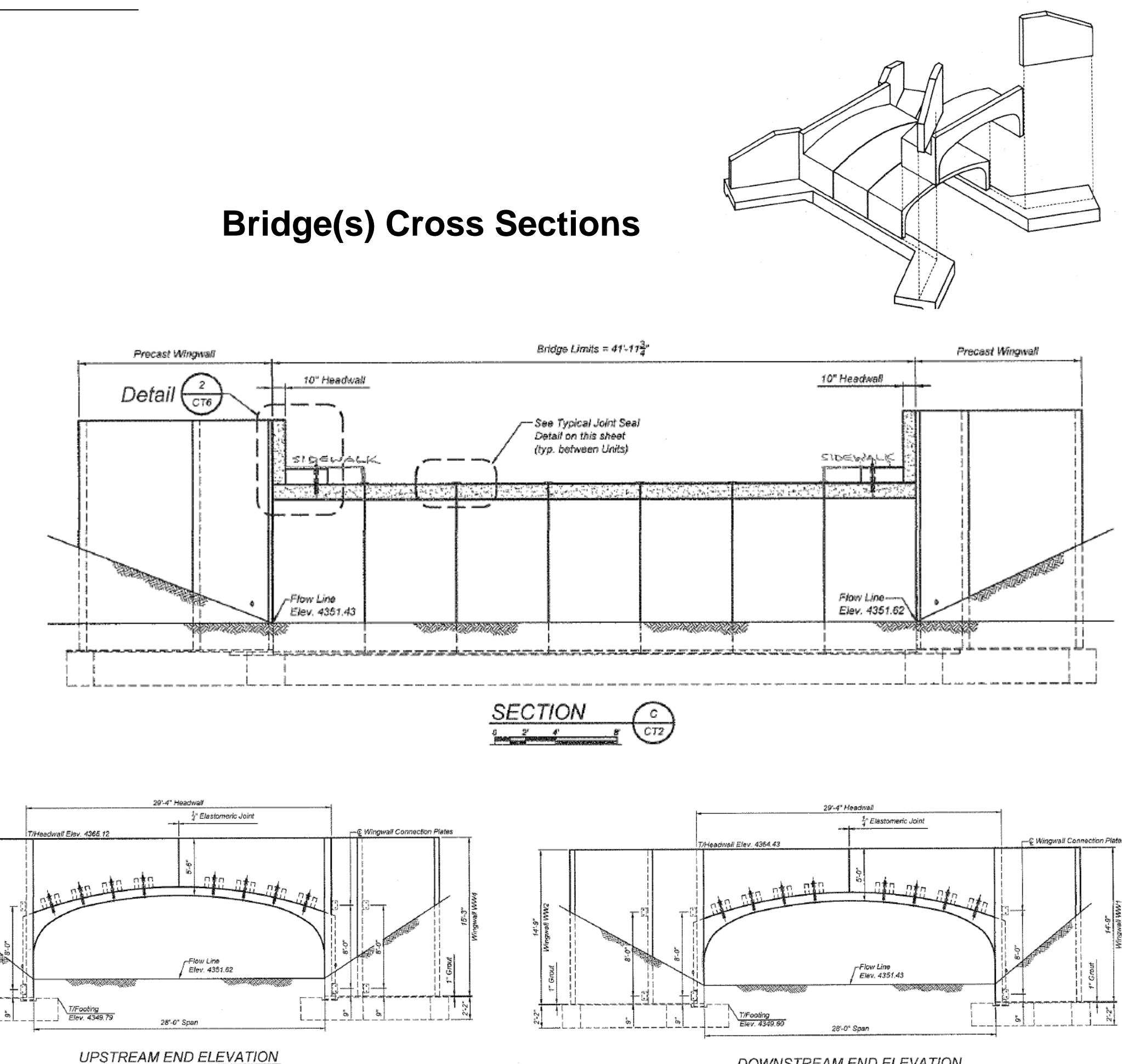
Setbacks:

45 Foot Average Setback from Big Cottonwood Creek to Building.
Minimum of 40 Foot Setback along Big Cottonwood Creek to Building.

Protected Zone: Minimum 10 Foot Setback from Right of Way along Memory Lane and Arbor Lane. Minimum 25 Foot Setback for 4 Single Family Lots over 0.20 Acres on Arbor Lane. 0 Foot Setback for Murray/Holladay Road and Highland Drive (excluding creek section) from Right of Way.



Bridge(s) Cross Sections



Bridge Section Details: Sidewalk length shall be 6 Feet or greater for Pedestrian access to site. Adequate measures of pedestrian protection from vehicular traffic will be included and submitted in the Building Permit Approval Process.

Draft Date: 12/11/07

Page 11 of 28

Traffic Study and Impacts*

Traffic Study Impacts Summary									
Findings and Recommendations									
This section of the report provides a brief summary of the study findings and any recommendations developed to address the existing traffic conditions or the traffic impacts associated with the proposed project.									
A. Roadway Segments Based on the study findings, there are no roadway segment modifications necessary to address the mall entitlement or future development conditions. Some modification to the section of Highland Drive adjacent to the site will be necessary to accommodate the changes to the access plan and driveway locations along this project boundary.									
B. Study Area Intersections Based on the findings from the Existing, Mall Entitlements and Proposed Development Program evaluations, the only recommendation not associated with the site access and entry roads that should be considered is the optimization of timings at the E 45 th S/Highland Drive intersections. The Appendix to this report includes the cycle lengths and phasing scenario identified in order to improve the intersection operations. The access drive configuration and locations, along with changes to the signalization plans will present a high quality level of access and circulation options for the development and will also provide the opportunity for proper distribution of traffic onto the external roadway network.									
C. Traffic Calming The results of the demographic analysis, the existing conditions evaluations and the findings from the license tag surveys conducted show currently that the majority of the traffic entering the neighborhoods to the west and east are not "cut through" or neighborhood traffic intrusion, but in fact are residents of those neighborhoods.									
Based on the current conditions, our recommendation is to monitor the traffic as the project development occurs to see what changes in traffic patterns are occurring. Measures for dealing with any significant increase in cut through traffic could then be addressed through a formal traffic calming program.									
Based on these findings, there are no current recommendations made for suggested traffic calming measures. However, should the local jurisdiction decide to implement any viable features, they should be analyzed to compare the benefits to potential negative impacts to the residents in those areas.									
D. Access Plan The proposed access system for the new Cottonwood development is shown on Figure 2 in a previous section of this report. As can be seen, the new system will not require major modification to the driveways/entry roads from Murray-Holladay Road. The proposed access plan does include modification to the location and function of the access points on Highland Drive. These changes include signalization of the northernmost connection, restrictions of the next two drives to the south to right-in/right-out only turning movements, and relocation of the signal at the Meadow Moor Road entrance to the Moor Mont Arbor Lane entrance.									
Each of these modifications are recommended to facilitate improved traffic flow and service along this corridor and to provided protected access at those points where volumes are anticipated to be highest. Each entrance will operate at a good level of service and the spacing between signals will be sufficient to provide for left-turn lanes and good traffic platooning.									
Glatt Jackson Kercher Anglin, Inc. Traffic Impact Analysis Cottonwood Mall Redevelopment September 2007									

Table 1
Existing/Previous Development Trip Generation
Cottonwood Mall (Existing Entitlements)

Land Use	ITE Code	Intensity	Daily Trip Ends	PM Peak-Hour Trip Ends					
				Total	%	In	Out	Total	%
Retail	820	734.7 KSF	24,826	2,335	48%	1,121	52%	1,214	
Total				24,826		1,121		1,214	
Pass-By		21%		490		235		255	
Net External				24,826	1,844	885		959	

Source: Glatt Jackson Kercher Anglin, Inc.
ITE Trip Generation Manual, 7th Edition
ITE Trip Generation Handbook, 2nd Edition

Table 2
Proposed Project Trip Generation
Cottonwood Mall

Land Use	ITE Code	Intensity	Daily Trip Ends	PM Peak-Hour Trip Ends					
				Total	%	In	Out	Total	%
Single Family	210	26 DU	301	32	63%	20	37%	12	
Mid-Rise Apartment	223	461 DU	1,980	210	58%	122	42%	88	
Townhouse/Condominium	230	114 DU	717	67	67%	45	33%	22	
Movie Theater	444	53.9 KSF		205	64%	131	36%	74	
Health / Fitness Club	492	20.3 KSF	668	82	51%	42	49%	40	
Office	710	83.8 KSF	1,164	173	17%	29	83%	143	
Retail	820	480.0 KSF	18,826	1,763	48%	846	52%	917	
Supermarket	850	59.4 KSF	5,365	618	51%	315	49%	303	
Total			29,021	3,149		1,550		1,599	
Internal Capture	25.19%	24.81%		7,234		710		355	
Pass-By (Health/Fitness)	0.00%	20.00%				12		6	
Pass-By (Retail)	0.00%	28.71%		381		190		190	
Pass-By (Supermarket)	0.00%	36.00%		167		84		84	
Modal Split *		2.00%		580		63		31	
Net External				21,206	1,816	884		932	
Daily	Pk-hour								

Source: Glatt Jackson Kercher Anglin, Inc.
ITE Trip Generation Manual, 7th Edition
ITE Trip Generation Handbook, 2nd Edition

Table 3
TRIP GENERATION OF AN EQUIVALENT PERMITTED POWER CENTER
Cottonwood Mall

Land Use	ITE Code	Intensity	Daily Trip Ends	PM Peak-Hour Trip Ends								
				Enter		Exit		Internal Capture		Pass-by		Total
				Total	%	Trips	%	Trips	Enter	Exit	In	Out
Apparel Store	870E	40.0 KSF	2,656	327	50%	163	50%	163	22	23	141	140
Book Superstore	868R**	40.0 KSF	7,812	781	52%	406	48%	375	37	46	369	329
Electronics Superstore	863R	60.0 KSF	2,702	270	49%	132	51%	138	26	23	106	115
Shopping Center	820E	200.0 KSF	10,656	789	49%	386	51%	402	48	42	32%	108
Free-standing Discount Superstore	813E	250.0 KSF	22,507	1,265	50%	633	50%	633	44	46	589	587
Office Supply Superstore	867R**	40.0 KSF	1,360	136	53%	72	47%	64	17	18	55	46
Home Improvement Superstore	862R	250.0 KSF	7,450	613	47%	288	53%	325	40	43	248	282
Toy/Children's Superstore	864R**	30.0 KSF	897	90	50%	45	50%	45	17	18	28	27
Pet Supply Superstore	866R**	40.0 KSF	1,984	198	50%	99	50%	99	17	18	40	25
Quality Restaurant	931R	10.0 KSF	900	75	67%	50	33%	25	10	0		
High T/O Restaurant	932R	10.0 KSF	1,275	109	61%	67	39%	43	9	10	43%	25
Total		970.0 KSF	60,199	4,652		2,342		2,311	287	287	133	129
											1,921	1,894

*Internal Capture calculated using FDOT TIPs program. Total internal capture is approximately 12.3%

**No daily rate is published by ITE. PM peak hour volume estimated at 10% of daily trip generation.

Source: Glatt Jackson Kercher Anglin, Inc.

ITE Trip Generation Manual, 7th Ed.

ITE Trip Generation Handbook, 2nd Ed.

Cottonwood

Site Development Master Plan - Regional Mixed-Use Development

City of Holladay, County of Salt Lake, State of Utah

Table 4

Census Tract Population Distribution
Cottonwood Mall

Quadrant	Tract #	Population	% in Quad	Pop. in Quad	% of Total
NW	1114.00	6,515	100%	6,515	3.5%
	1049.00	2,903	100%	2,903</	

Traffic Study and Impacts

Table 6
Existing Conditions - Intersections
Cottonwood Mall

Intersection	Stop Control	Intersection Conditions	EXISTING (YEAR 2007)				
			APPROACH				
			OVERALL	EB	WB	NB	SB
S 13th E @ Spring Lane	Two-Way Stop Control	LOS	D	D		B	
		Delay (sec/veh)	25.1	25.1		10.2	
		95% Queue (feet)		40		6	
E 45th S @ Highland Drive	Signal	LOS	D	E	D	C	E
		Delay (sec/veh)	50	70.2	36.1	30.8	55.5
		95% Queue (feet)		1090	690	425	785
HIGHLAND DRIVE @ MALL NORTH ACCESS	Two-Way Stop Control	LOS	C	C	C	A	
		Delay (sec/veh)	16.2	16.2		9.3	
		95% Queue (feet)		14		5	
HIGHLAND DRIVE @ MEADOW MOOR ROAD	Signal	LOS	C	C	C	C	C
		Delay (sec/veh)	26.3	32.3	32.8	22.8	27.8
		95% Queue (feet)		60	90	400	605
HIGHLAND DRIVE @ MOORMONT DRIVE	Two-Way Stop Control	LOS	D	D	D	B	A
		Delay (sec/veh)	32.5	32.5	26	10.6	9.6
		95% Queue (feet)		5	25	0	1
MOORMONT/ARBOR @ MALL ACCESS	Two-Way Stop Control	LOS	A	A		A	
		Delay (sec/veh)	8.6	7.4		8.6	
		95% Queue (feet)		3		1	
HIGHLAND DRIVE @ SPRING LANE	Signal	LOS	B	B	B	B	B
		Delay (sec/veh)	11	13.8		10.5	11.2
		95% Queue (feet)		35	260	345	
MURRAY-HOLLADAY ROAD @ HIGHLAND DRIVE	Signal	LOS	C	C	C	C	C
		Delay (sec/veh)	27	21.1	22	25.7	34.2
		95% Queue (feet)		245	300	300	610
MURRAY-HOLLADAY ROAD @ MALL WEST ACCESS	Two-Way Stop Control	LOS	B		A	B	
		Delay (sec/veh)	13.3		9.7	13.3	
		95% Queue (feet)		2	2		
MURRAY-HOLLADAY ROAD @ MALL EAST ACCESS	Signal	LOS	B	B	B	C	C
		Delay (sec/veh)	16.3	15.8	15.5	21.8	22.5
		95% Queue (feet)		310	275	45	75
MURRAY-HOLLADAY ROAD @ HOLLADAY BLVD.	Signal	LOS	C	C	C	D	
		Delay (sec/veh)	31.5	24.9	21.7	25.7	41
		95% Queue (feet)		300	100	420	775

Source: Glatting Jackson Kercher Anglin Lopez Rinehart, Inc.

Table 8
Existing/Previous Mall Entitlements - Intersections
Cottonwood Mall

Intersection	Stop Control	Intersection Conditions	EXISTING MALL ENTITLEMENTS				
			APPROACH				
			OVERALL	EB	WB	NB	SB
S 13th E @ Spring Lane	Two-Way Stop Control	LOS	D	D		B	
		Delay (sec/veh)	25.4	25.4		10.2	
		95% Queue (feet)		42		6	
E 45th S @ Highland Drive	Signal	LOS	F	F	D	D	F
		Delay (sec/veh)	89	93.1	44.1	45.1	141
		95% Queue (feet)		1225	750	725	1480
HIGHLAND DRIVE @ MALL NORTH ACCESS	Two-Way Stop Control	LOS	C	C	C	A	
		Delay (sec/veh)	17.2		17.2		9.5
		95% Queue (feet)		66		0	
HIGHLAND DRIVE @ MEADOW MOOR ROAD	Signal	LOS	C	C	C	C	C
		Delay (sec/veh)	27.1	32.3	32.8	23.7	29
		95% Queue (feet)		60	90	465	675
HIGHLAND DRIVE @ MOORMONT DRIVE	Signal	LOS	B	B	C	B	B
		Delay (sec/veh)	15.9	12.2	30.3	11.8	14.2
		95% Queue (feet)		15	415	320	440
MOORMONT/ARBOR @ MALL ACCESS	Two-Way Stop Control	LOS	B	A		B	
		Delay (sec/veh)	11.8	8.2		11.8	
		95% Queue (feet)		30		60	
HIGHLAND DRIVE @ SPRING LANE	Signal	LOS	B	B	B	B	B
		Delay (sec/veh)	11	13.8		10.5	11.2
		95% Queue (feet)		35	260	350	
MURRAY-HOLLADAY ROAD @ HIGHLAND DRIVE	Signal	LOS	D	C	C	D	
		Delay (sec/veh)	35.5	26.9	30.7	28.3	47.7
		95% Queue (feet)		605	120	420	780
MURRAY-HOLLADAY ROAD @ MALL WEST ACCESS	Two-Way Stop Control	LOS	C	B	C		
		Delay (sec/veh)	15.1		10.4	15.1	
		95% Queue (feet)		2	2		
MURRAY-HOLLADAY ROAD @ MALL EAST ACCESS	Signal	LOS	C	B	B	C	C
		Delay (sec/veh)	20.1	18.2	16.9	28.2	20.5
		95% Queue (feet)		350	295	295	75
MURRAY-HOLLADAY ROAD @ HOLLADAY BLVD.	Signal	LOS	D	D	C	C	F
		Delay (sec/veh)	44.5	45.9	25.6	25.9	55.5
		95% Queue (feet)		605	120	420	780

Source: Glatting Jackson Kercher Anglin Lopez Rinehart, Inc.

Table 10
Proposed Development - Intersections
Cottonwood Mall

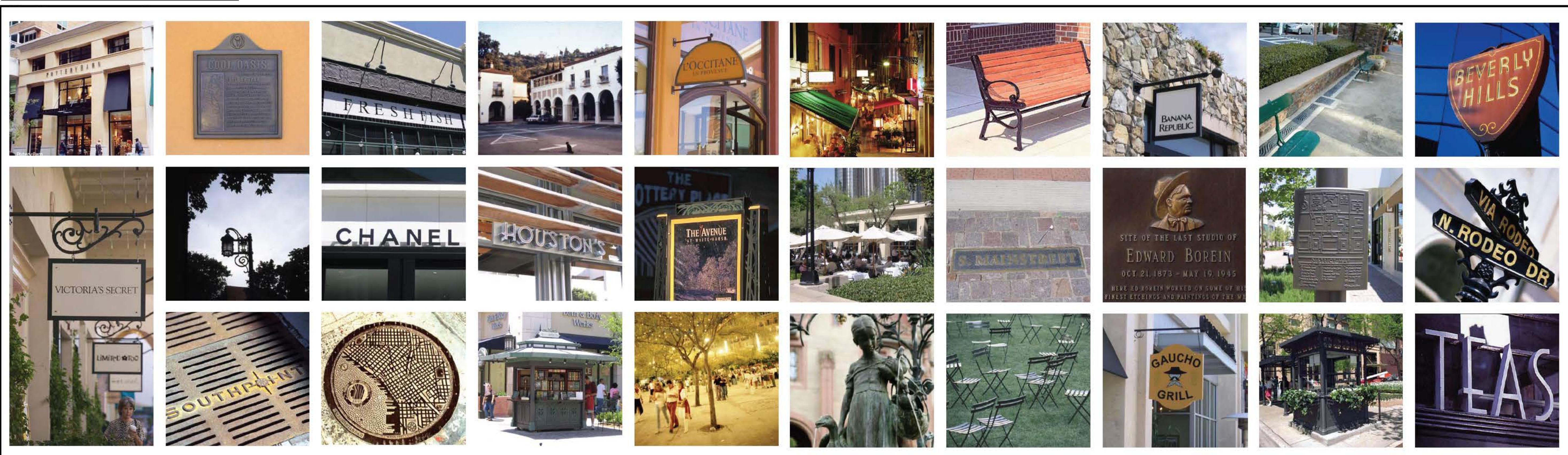
Intersection	Stop Control	Intersection Conditions	PROPOSED DEVELOPMENT				
			APPROACH				
			OVERALL	EB	WB	NB	SB
S 13th E @ Spring Lane	Two-Way Stop Control	LOS	D	D		B	
		Delay (sec/veh)	25.4	25.4		10.2	
		95% Queue (feet)		42		6	
E 45th S @ Highland Drive	Signal	LOS	F	F	D	D	F
		Delay (sec/veh)	88.9	93.1	44.1	44.5	141
		95% Queue (feet)		1225	750	720	1480
E 45th S @ Highland Drive (Optimized signal)	Signal	LOS	D	E	D	C	C
		Delay (sec/veh)	40.5	71.1	36.1	26.1	33.5
		95% Queue (feet)		1090	690	540	880
HIGHLAND DRIVE @ MALL NORTH ACCESS	Two-Way Stop Control	LOS	C	C	C	C	C
		Delay (sec/veh)	19.1		19.1		11.4
		95% Queue (feet)		66		8	
HIGHLAND DRIVE @ MEADOW MOOR ROAD	Signal	LOS	C	C	C	C	C
		Delay (sec/veh)	27.1	32.3	32.8	23.7	29
		95% Queue (feet)		60	90	465	675
HIGHLAND DRIVE @ MOORMONT DRIVE	Signal	LOS	B	B	C	B	B
		Delay (sec/veh)	15.9	12.2	30.3	11.9	14.3
		95% Queue (feet)		15	415	320	445
MOORMONT/ARBOR @ MALL ACCESS	Two-Way Stop Control	LOS	B	A		B	B
		Delay (sec/veh)	11.5	8.1		11.5	
		95% Queue (feet)		25		55	
HIGHLAND DRIVE @ SPRING LANE	Signal	LOS	B	B	B	B	B
		Delay (sec/veh)	11	13.8		10.5	11.2
		95% Queue (feet)		35	260	345	
MURRAY-HOLLADAY ROAD @ HIGHLAND DRIVE	Signal	LOS	D	C	C	D	D
		Delay (sec/veh)	35.3	26.8	30.5	27.9	47.6
		95% Queue (feet)		310	490	410	900
MURRAY-HOLLADAY ROAD @ MALL WEST ACCESS	Two-Way Stop Control	LOS	C	B	C		
		Delay (sec/veh)	15.1	10.4	15.1		
		95% Queue (feet)		2	2		
MURRAY-HOLLADAY ROAD @ MALL EAST ACCESS	Signal	LOS	C	B	B	C	C
		Delay (sec/veh)	20.1	16	14.7	34.6	22.9
		95% Queue (feet)		330	275	380	80
MURRAY-HOLLADAY ROAD @ HOLLADAY BLVD.	Signal	LOS	D	D</td			

Streetscape Design Examples/Branding Precedents

Streetscape Design Examples



Signage and Branding Examples



Draft Date: 12/11/07

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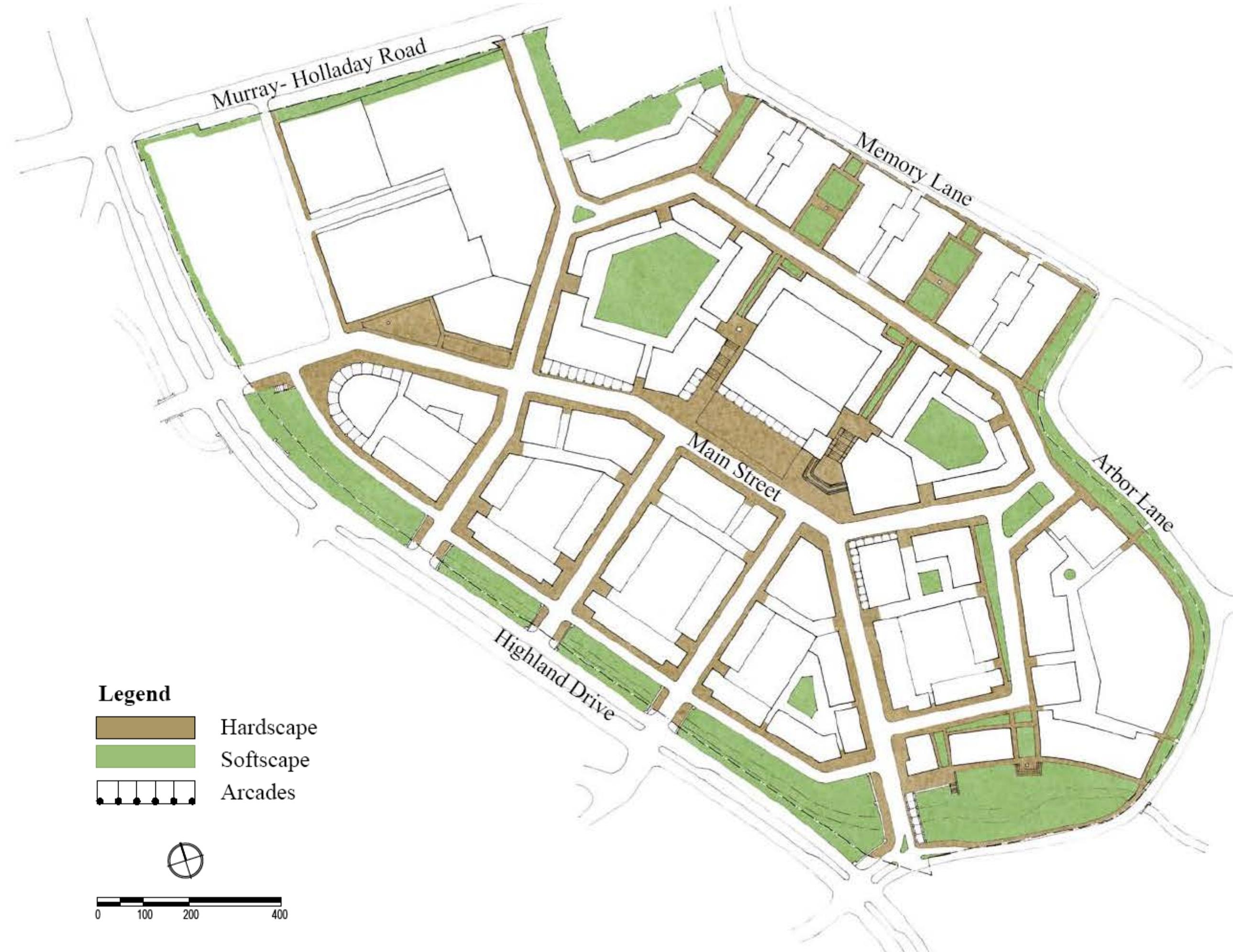
Conceptual Open/Gathering Space Plan

General Open Space Guidelines

Open Space (Hardscape/Softscape) (Min/Max):
479,231 square feet/648,372 square feet
11.00 acres/14.88 acres

Private Streets (Min/Max):
440,577 square feet/596,074 square feet
10.11 acres/13.68 acres

Total Open Space + Private Streets (Min/Max):
919,808 square feet/1,244,447 square feet
21.12 acres/28.57 acres



Illustrative Sample Specimens



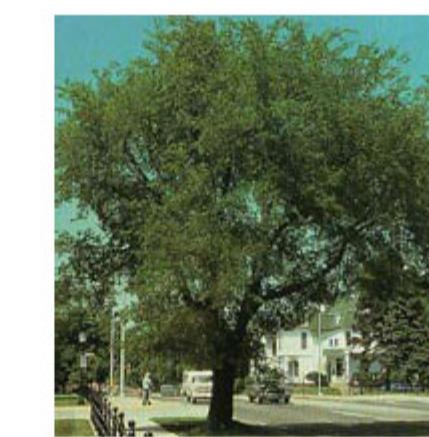
1. Type: Plane Tree
(*Platanus occidentalis*)
Height: 90 - 150'



2. Type: Smooth Leaf Elm
(*Ulmus carpinifolia*)
Height: 70 - 90'



3. Type: Japanese Zelkova
(*Zelkova serrata*)
Height: 50 - 75'



4. Type: Common Hackberry
(*Acer grandidentatum*)
Height: 40 - 60'



5. Type: Big Tooth Maple
(*Acer grandidentatum*)
Height: 40 - 60'



6. Type: White Mulberry
(*Morus alba*)
Height: 20 - 50'



7. Type: Rocky Mountain Maple
(*Acer glabrum*)
Height: 15 - 25'



8. Type: Hornbeam Hedge
(*Carpinus Betulus*)
Height: Maintain at 3 - 6'



9. Type: Callery Pear
(*Pyrus Calleryana*)
Height: 20 - 40'



10 Type: Aspen
(*Populus tremuloides*)
Height: 20 - 50'

11 Type: Cottonwood Tree
(*Populus fremontii*)
Height: 40 - 80'

Notes: Also known as the Sycamore, the Plane Tree is large and well-suited tree for urban and suburban environments. Often found in backyards and parks.

Notes: Well-adapted for Utah's dry climate and fairly resistant to Dutch Elm Disease.

Notes: An excellent shade tree that is tolerant of wind, heat, drought, and urban pollution. Makes for a good street tree and is used commonly in residential and commercial areas.

Notes: Typically found in canyon bottoms and moist mountain sites, but can also be found in dryer areas. Often used as an ornamental shade tree in urban and suburban environments.

Notes: Grows well in warm, dry areas, and is resistant to drought. Often used as a divider between the private and public realm.

Notes: Found near elevations of 5,000 feet, or higher. Found in both moist and arid climates, this tree is well-suited for Utah and its environment.

Notes: A hardy plant suitable for heavy wet soils. Typically used as a divider between the private and public realm.

Notes: A tree that is well-suited for an urban environment. It is often used to line urban and suburban streets.

Notes: A fast growing tree that provides a finished look to suburban or urban areas. A "succession" tree that can seed quickly to areas of little vegetation, subject to disease.

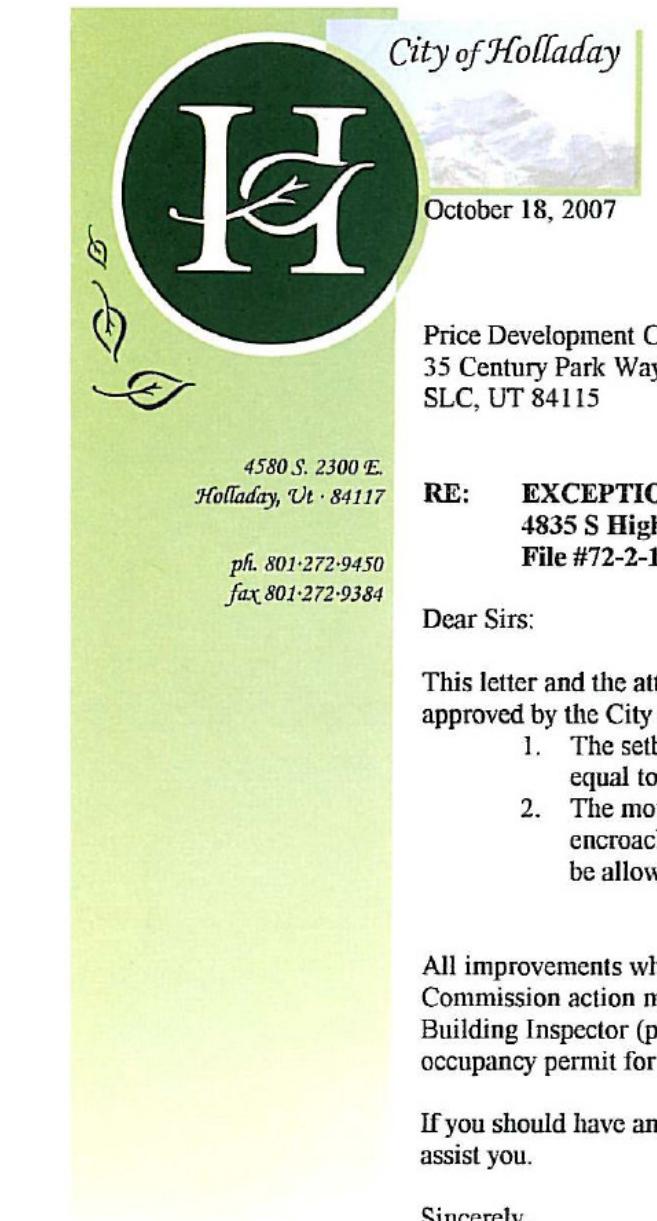
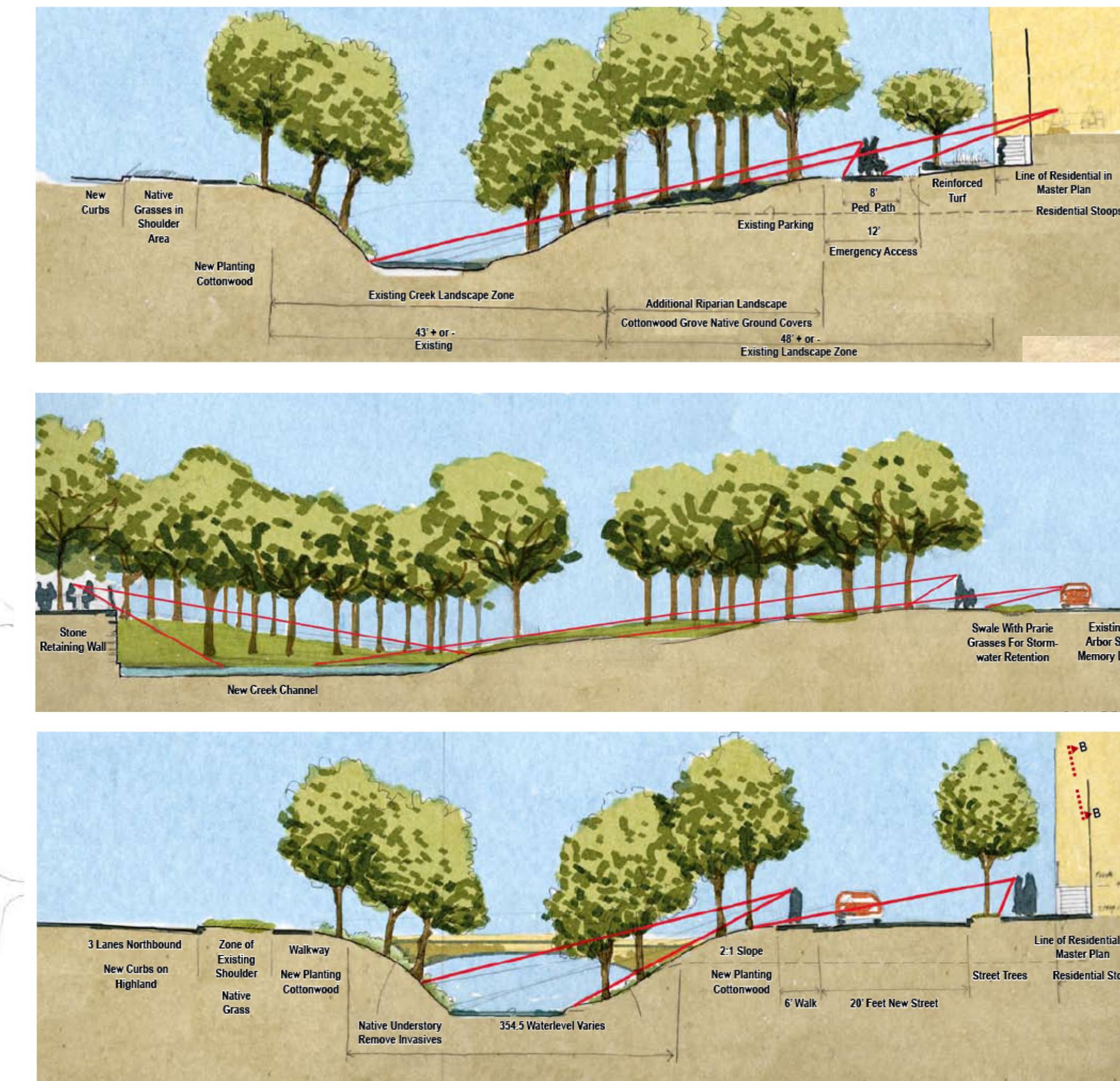
Notes: The cottonwood tree grows only in wet soils, typically along the banks of creeks or rivers. Well-adapted to such environments in the southwest.

Draft Date: 12/11/07

*All Landscaping and Vegetation will be sensitive to site as well as surrounding conditions.

**All samples are representational of potential site vegetation and do not constitute all inclusive green and vegetative landscaping.

Creek Cross Sections



Price Development Company Limited Partnership
35 Century Park Way
SLC, UT 84115

RE: EXCEPTION FROM THE SETBACK FROM COTTONWOOD CREEK
4835 S Highland Dr
File #72-2-10-04

Dear Sirs:

This letter and the attached approved site plan constitute the exception to the setback from Cottonwood Creek approved by the City of Holladay Planning Commission on September 18, 2007 with the following conditions:

1. The setback from Big Cottonwood Creek shall be at no point closer than 40 feet, but an average equal to or greater than 45 feet for the whole site.
2. The motion pertained to building foundation footprints recognizing that there would be further encroachments relative to flat work, patios, and similar structures. At-grade improvements would be allowed as approved by the site development master plan.

All improvements which are required by the City of Holladay development ordinances or Planning Commission action must be installed or bonded for, prior to the final electrical inspection approval by the Building Inspector (power to panel), or if no electrical inspection is required, prior to the issuance of any occupancy permit for the land being developed.

If you should have any questions regarding this matter, please call me at 527-3890, and I will be happy to assist you.

Sincerely,

Alma Haskell
Planner

Sample Building Materials & Architectural Design Styles

National and International Precedents



Cottonwood Design Guidelines

The architectural vision of the Cottonwood Development is to create an urban realm with distinct places including a central plaza, a mixed-use main street, and residential edge streets. Architectural styles and variety, including a local vernacular or flavor, will create a cohesive architectural vision so that buildings are made to appear incremental as if developed over time.

The use of articulated buildings including corner and cornice details as well as façade embellishments will be a strong component of the architecture. Wherever feasible, window surfaces will be maximized at ground level creating a high degree of visibility in retail areas. Streets will be further articulated through the use of arcades, awnings, canopies, balconies, and signs. In the residential districts, porches and stoops will add to the variety of design to create a neighborhood sensibility. Careful planning for service areas, utilities, and infrastructure elements is required so that, to a significant extent, these are concealed by buildings, wall, gates, and landscaping.

Use of a wide variety of building materials will be incorporated into the overall architectural design. Materials will include (but not be limited to) stone, brick, wood, stucco, metals, and glass. The materials palette will coincide with the goal of providing character and interest to individual buildings and the project as a whole. New, larger, single building uses will be designed so that they are well integrated into the project. Substantially single-material, lower quality "big box" style architecture will not be utilized. The scale and mass of the larger buildings will be softened through the use of articulation and building materials.

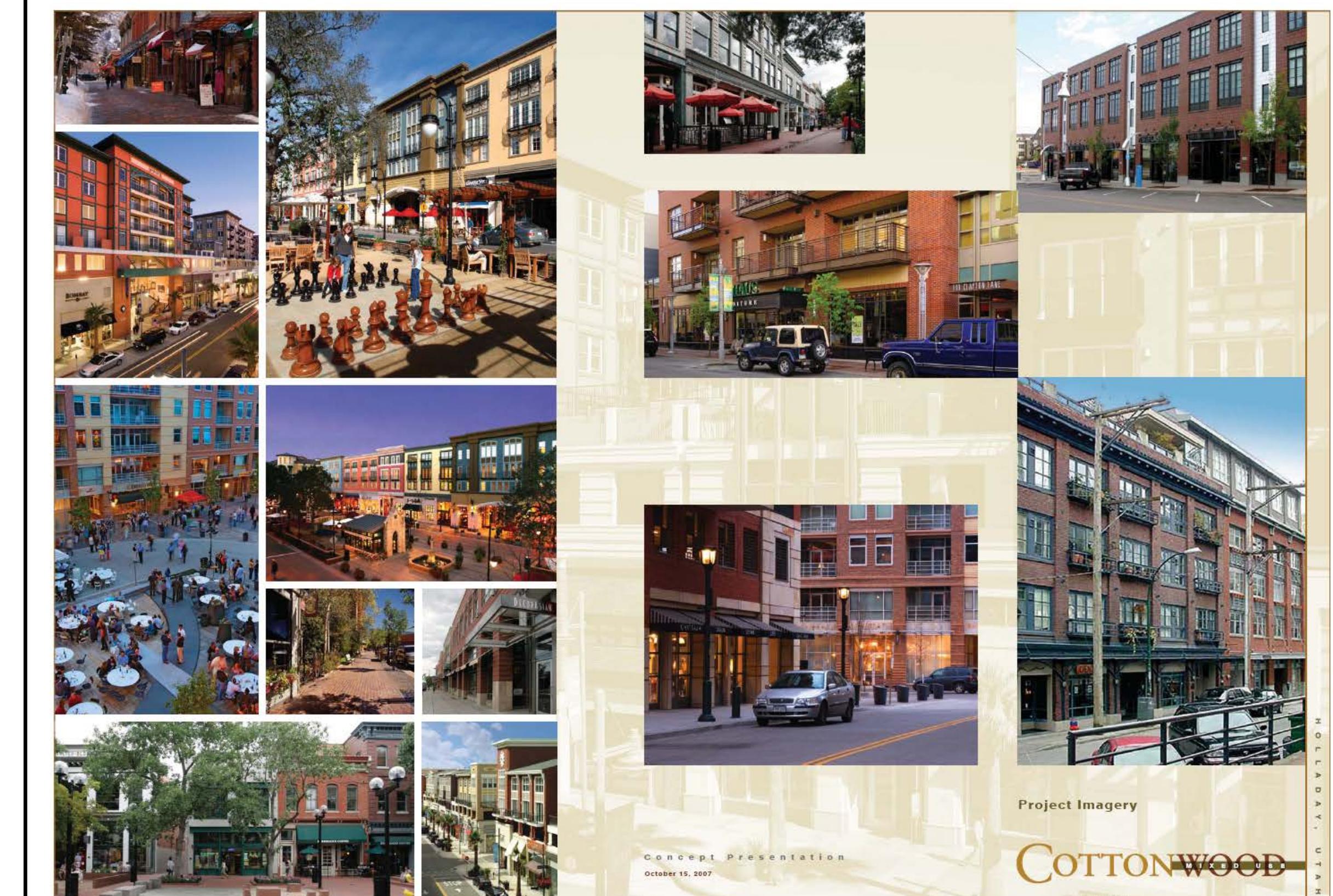
Details of the streetscape will be simple and include concrete, asphalt, and accent materials in focal areas. Elements included in the streetscape will include benches, kiosks, mobile merchandising units, pots, art, bike racks, and trash containers. Please refer to the examples shown on the Precedents & Branding page of the SDMP for streetscape elements and building materials.

All work within the project will be constructed and provisioned in a first-class workmanlike manner and free from all significant defects.

Regional Precedents



Mixed-Use Precedents



Conceptual Site Lighting & Signage Plan

Conceptual Site Lighting Standards

Lighting

USE	MAXIMUM ILLUMINATION
Civic spaces, playing fields and recreational areas	Foot candles must be within the parameters recommended by IESNA (Illumination Engineering Society of North America).
Store aprons	Limited to minimum of 1.0 foot candles and a maximum of 10 foot candles at grade, with a uniformity ratio no greater than 4:1.
Parking lots, loading and display areas	Limited to 2.5 foot-candles.
Spillover light	Limited to 1/2 foot-candle at the property line where adjacent to or Residential districts.

Light Levels & Mounting Directions

Parking Field – General lighting levels shall be a minimum of 2.0 FC. Every effort should be made to keep poles away from tenant storefronts when possible.

Boulevard / Life Style / Commercial areas – General lighting levels shall be a minimum of 2.0 FC maintained in traffic areas and 1.0 FC in pedestrian areas.

Poles lighting the street vary from 12' to 18' and should not exceed 150 watt metal halide. Poles lighting the pedestrian area are to vary from 10' to 14'. Every effort should be made to keep poles away from tenant storefronts when possible or use directable optics so as to not wash out storefronts.



Fixture guidelines

Site poles to be concrete poles by Stress Crete. Heads are to be TFI flat lens or drop bottom lens depending on dark sky requirements. Decorative poles are to be 10' to 24' and meet the same mounting guidelines as the site poles.

Emergency egress

All HID fixtures used for emergency egress shall use electronic ballasts and quartz restrike lamps. Generators are preferred over inverters if possible. ATM machines must be treated special as these areas have different light level requirements.

Energy management*

Lighting fixture manufacturers that practice the LEED or Green energy properties are to be given first design choice. Energy management system shall be a stand alone controllable relays system and shall be capable of being controlled by the malls current energy management system if desired. Programming of this system will need to be video taped and turned over to mall management for future use.

Sample lighting schedule for energy management:

- Site lighting – Sunrise to 1 hour before sunset - Off
 - 1 hour before sunset to closing – All on
 - Closing to sunrise – Night lighting setback*

All lighting after closing – 25% - No perimeter

* Consult with mall operations for final schedule

*Detailed Photometric Plan required as adopted by Planning Commission and City Council as an Appendix prior to building permit approvals.

Draft Date: 12/11/07

Conceptual Site Signage Standards*

SIGNAGE:

The graphic technique of imparting verbal and symbolic information, especially when applied to a building.

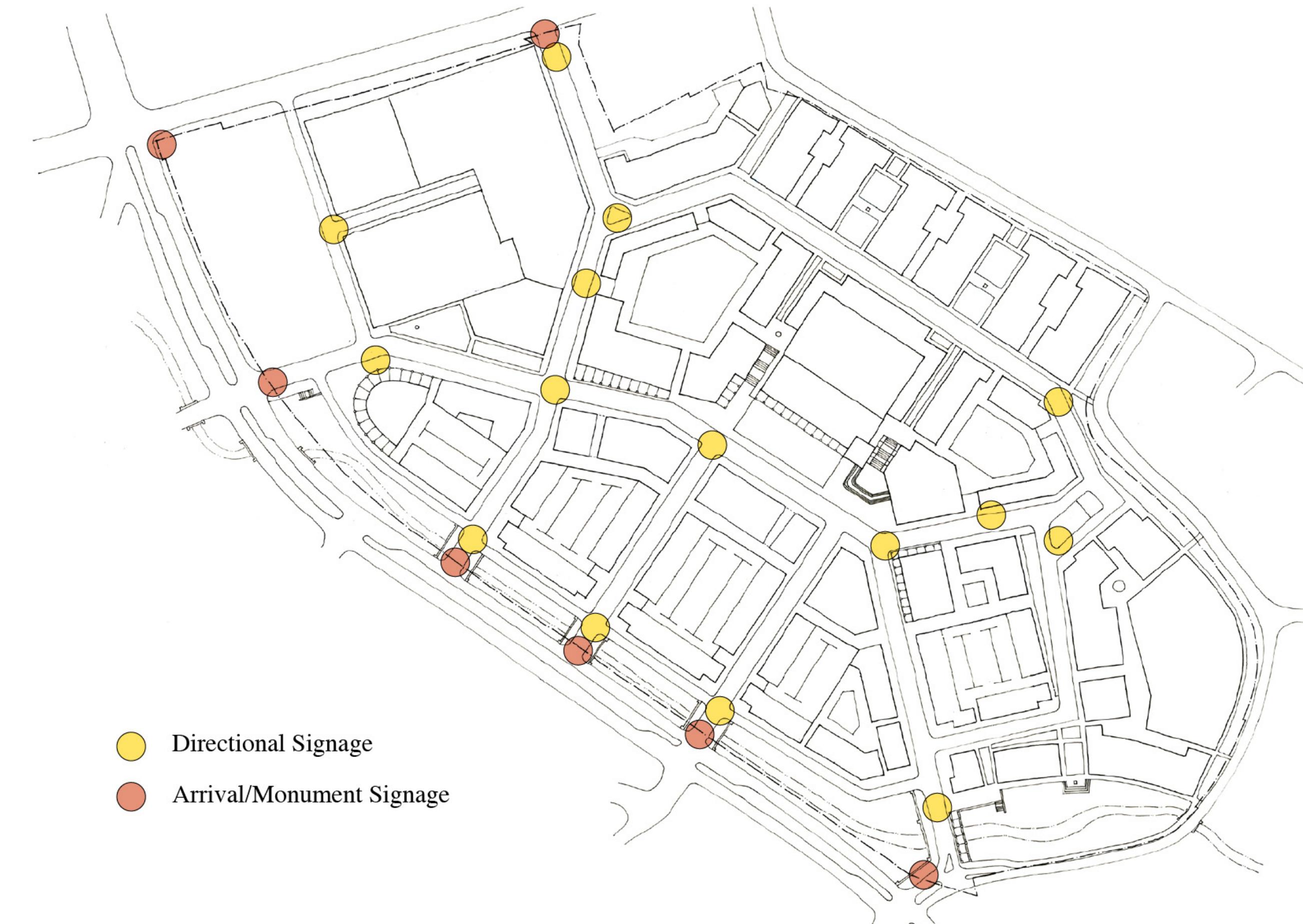
There are four fundamental types of signage:

1. Traffic signs and signals that are standardized by speed/perception research.
2. Monument signs are those that are applied to a structure independent of a building.
3. Signage that is applied directly to a building and referred to as wall signs.
4. Signage that is perpendicular to a building façade, to be seen by the pedestrian passerby, also referred to as blade or fin signs.

Retail Signage:

Retail signage shall be an integrated design to include the storefront, the entrance, and the signage.

Uniform signage regulations shall be provided to ensure aesthetic continuity.



Temporary Site Signage Criteria

Fencing Signage: Surrounding Area Proximity: Maximum limit of 6 Foot Height wrapping project fencing area

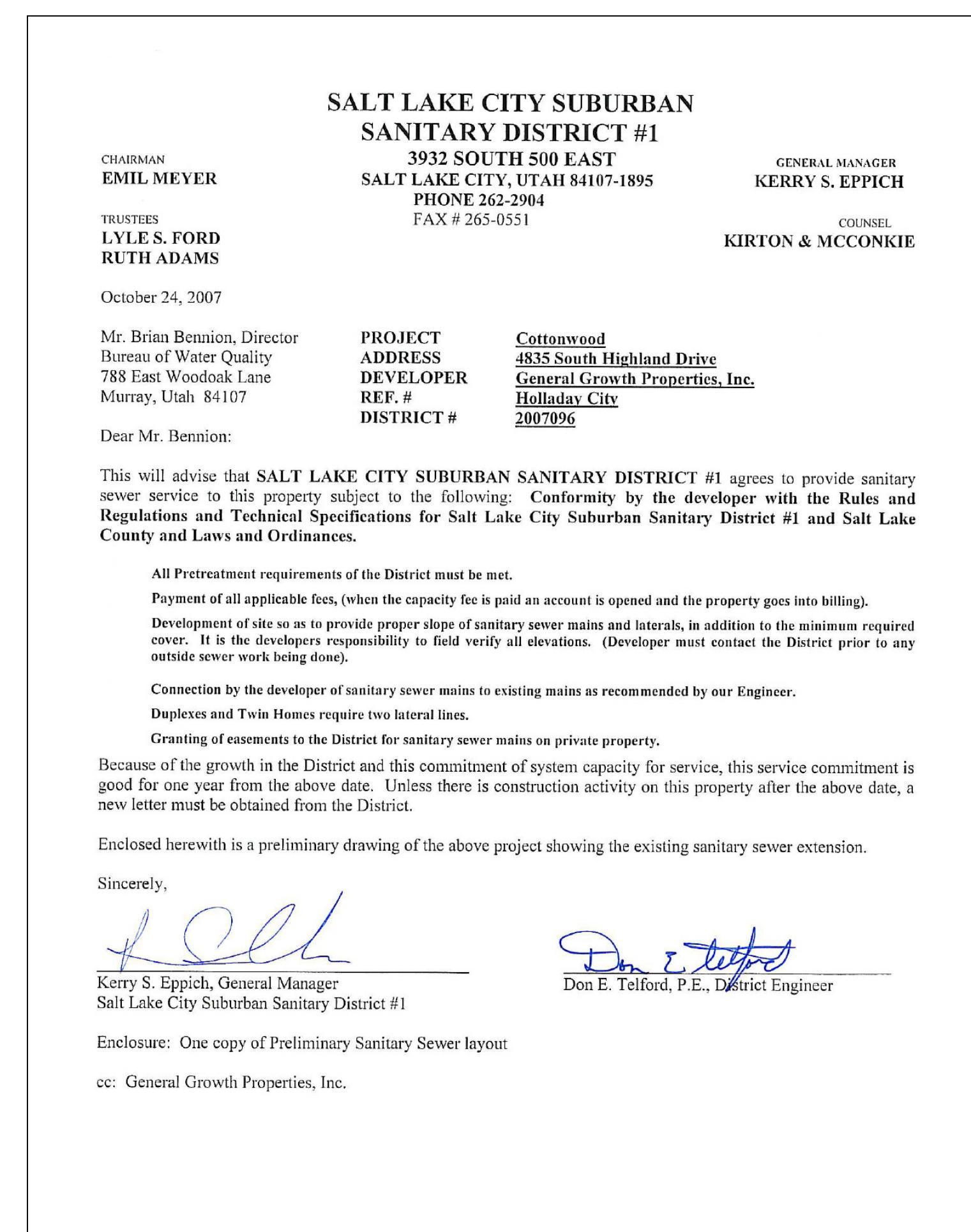
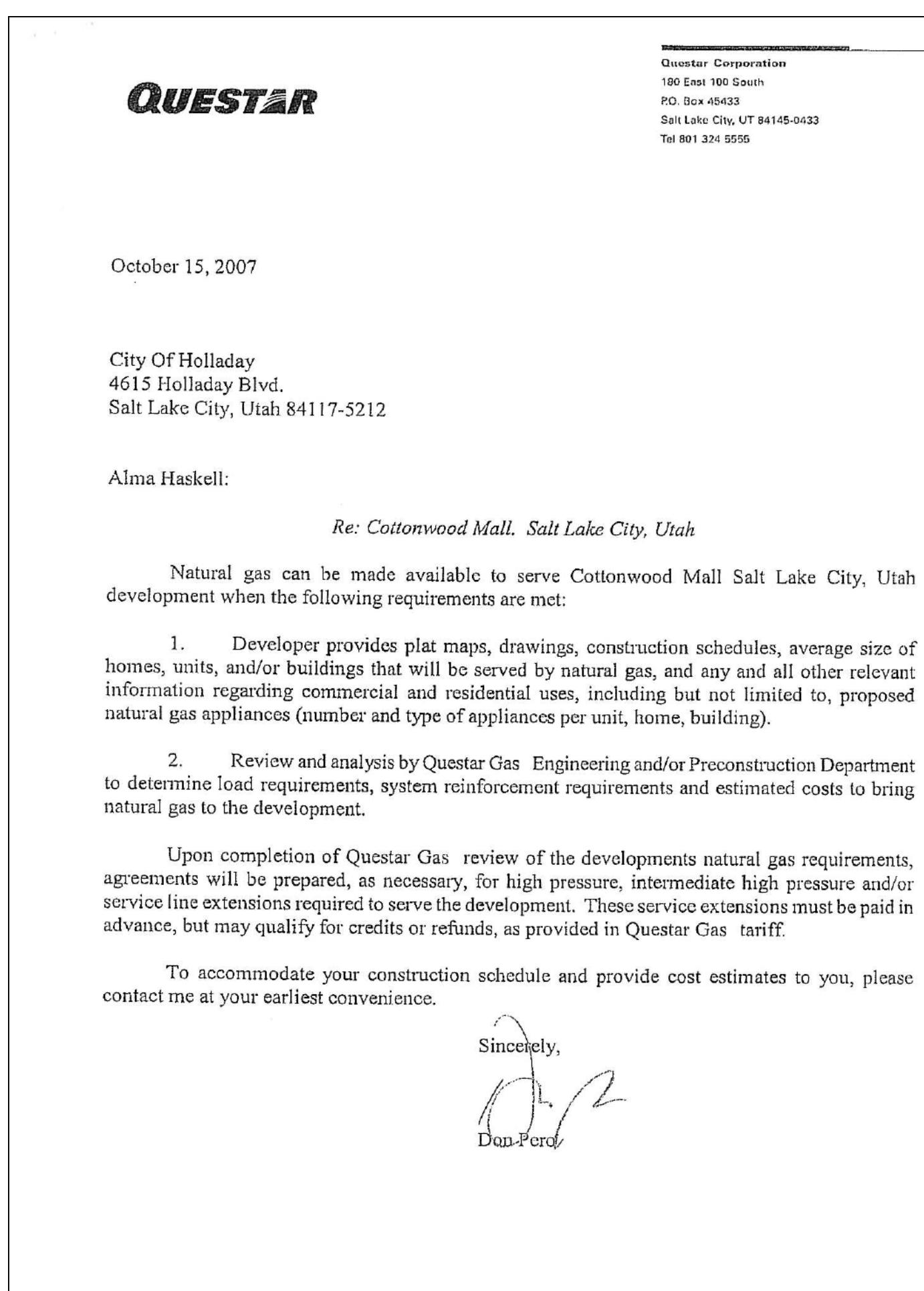
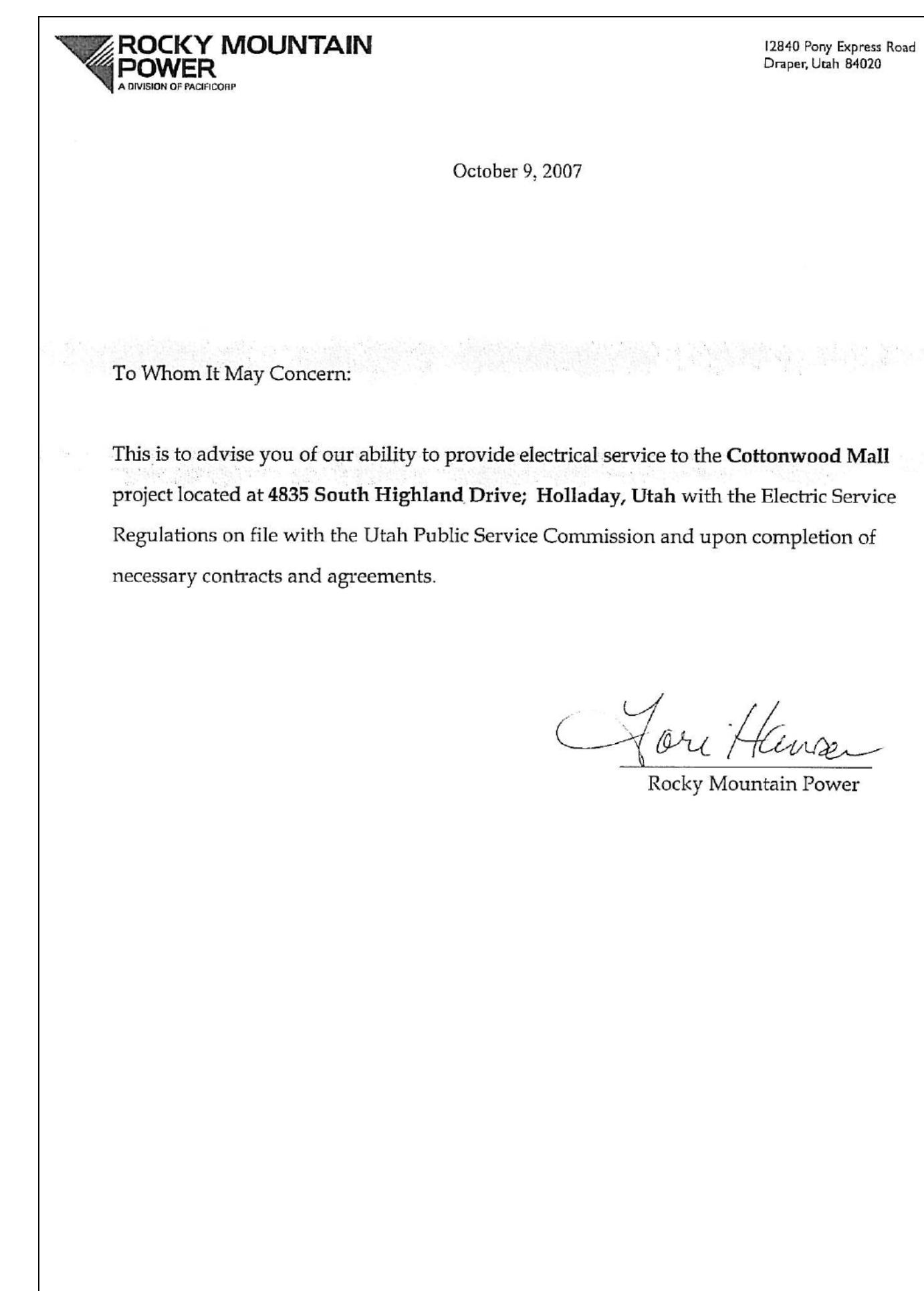
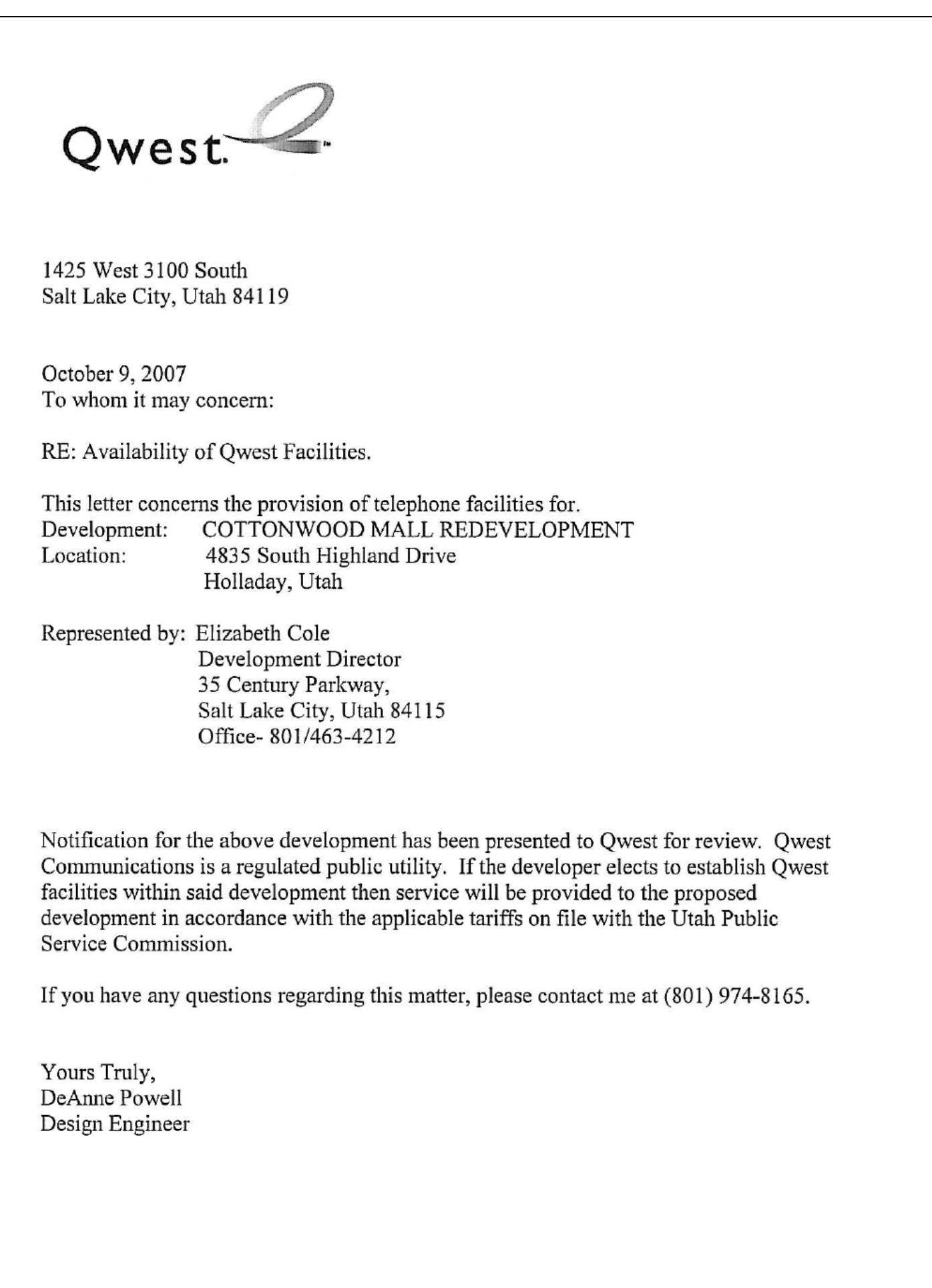
Development Signage: Limited to a maximum of 7 two-sided development signs on property with maximum square footage of 800 square feet per side.

Construction Banners: A Maximum of 1 (one) banner per building wall side with a maximum of 10% wall coverage.

Directional Signage: Limited to site entrances, relocated entrances, private roads, streets, and construction areas.

*Detailed Project Sign Criteria will be required as adopted by Planning Commission and City Council as an Appendix prior to building permit approvals.

Utility Capacity & Availability



Additional Capacity Letters to be Submitted to City of Holladay Prior to Subdivision Approval:

- . Salt Lake City Water Corporation
- . Holliday Water Company

Draft Date: 12/11/07

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DUANY PLATER - ZYBERK & CO.
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS



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Civil Plans - Site Plan

Overall Site Plan for Cottonwood Mall, Holladay, Utah

Blocks: BLOCK A, BLOCK B, EX. MACY'S, BLOCK C, BLOCK D, BLOCK E, BLOCK F, BLOCK G, BLOCK H, BLOCK I, BLOCK J, BLOCK K, BLOCK L.

Major Roads: MURRAY-HOLLADAY BLVD, HIGHLAND DRIVE, ROAD A, ROAD B, ROAD C, ROAD D, ROAD E, ROAD F, ROAD G, ROAD H, ROAD I, ROAD J, ROAD K, ROAD L, ARBOR LANE, BIG COTTONWOOD CREEK.

Scale: 1" = 100'

North: Indicated by a compass rose.

Project Information:

- Project No: 260209
- CAD DWG. FILE: 260209hcp
- DRAWN BY: JSK / BDP
- DESIGNED BY: TJD
- FIELD CREW: SURVEYED
- CHECKED BY: TJD
- DATE: 01 NOV 2007

Sheet Title: COTTONWOOD MALL
OVERALL SITE PLAN

McNEIL ENGINEERING CIVIL, L.C.

McNEIL ENGINEERING - SURVEYING, L.C.

McNEIL ENGINEERING - STRUCTURAL, L.C.

McNEIL ASPEN CONSULTANTS, L.C.

McNEIL ENGINEERING - CIVIL, L.C.

McNEIL ENGINEERING - STRUCTURAL, L.C.

McNEIL ASPEN CONSULTANTS, L.C.

McNEIL ENGINEERING - CIVIL, L.C.

McNEIL ENGINEERING CIVIL, L.C.

PROFESSIONAL CIVIL ENGINEERING SERVICES

6885 SOUTH 900 EAST, HOLLADAY, UTAH 84047
TEL: (801) 255-2700 FAX: (801) 255-8071
EMAIL: Info@mcneileng.com WEB SITE: www.mcneileng.com

**COTTONWOOD MALL
GENERAL GROWTH PROPERTIES**

**4835 SOUTH HIGHLAND DRIVE
HOLLADAY, UTAH**

LOCATED IN THE NE 1/4 SEC 9 & NW 1/4 SEC 10, T2S, R1E, SLB & M

REVISIONS

REV.	DATE	DESCRIPTION
△		
△		
△		

C3.00

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Draft Date: 12/11/07

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General Growth Properties, Inc.
110 North Wacker Drive
Chicago, IL 60606
(312) 960-5000

Cottonwood

Site Development Master Plan - Regional Mixed-Use Development

City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS

 McNEIL
Engineering, Inc.

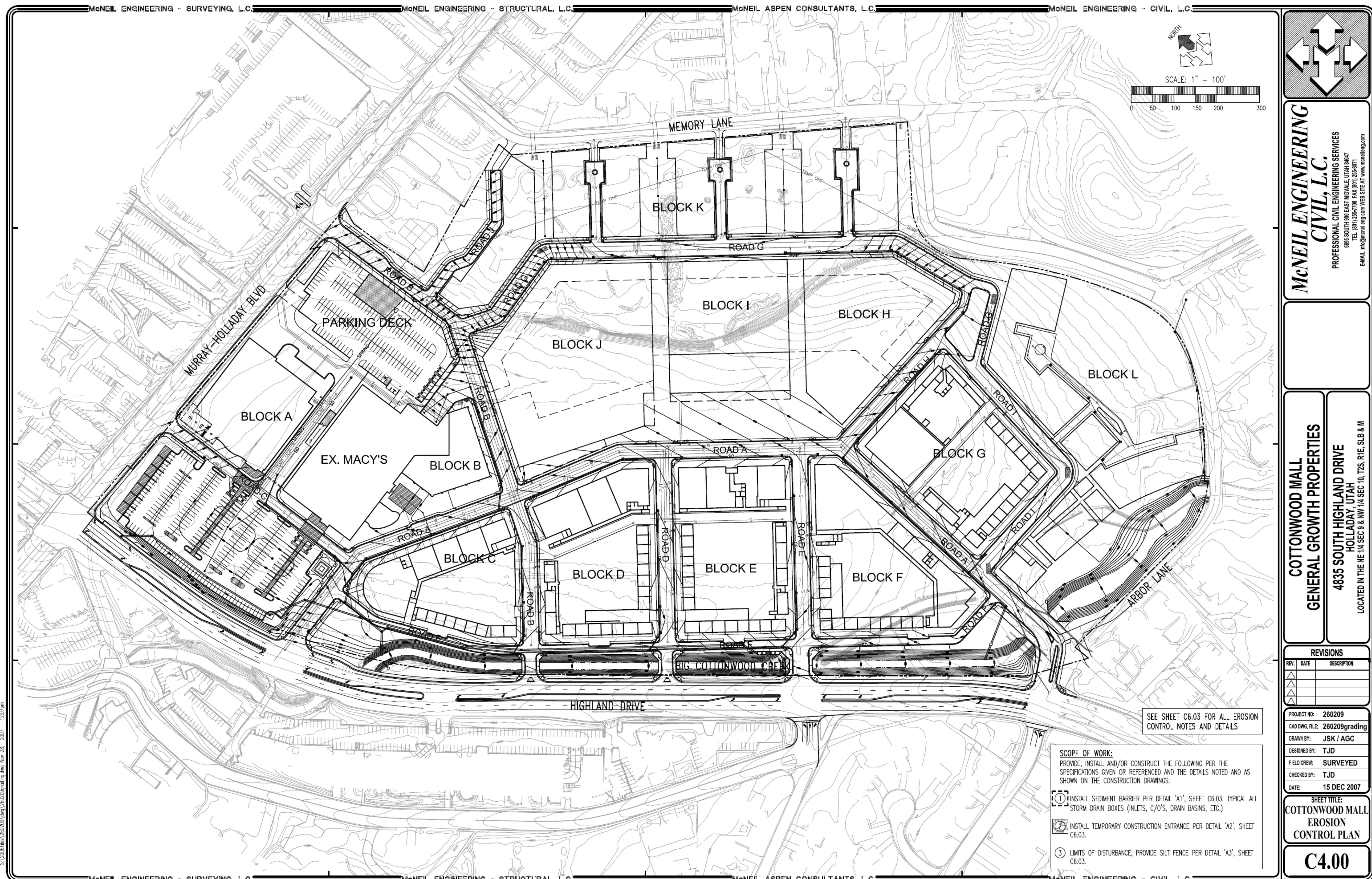
SB ARCHITECTS

SASAKI

RTKL

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Civil Plans - Grading and Drainage



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Draft Date: 12/11/07

General Growth Properties, Inc.
110 North Wacker Drive
Chicago, IL 60606
(312) 960-5000

Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO.
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS

McNEIL
Engineering, Inc.

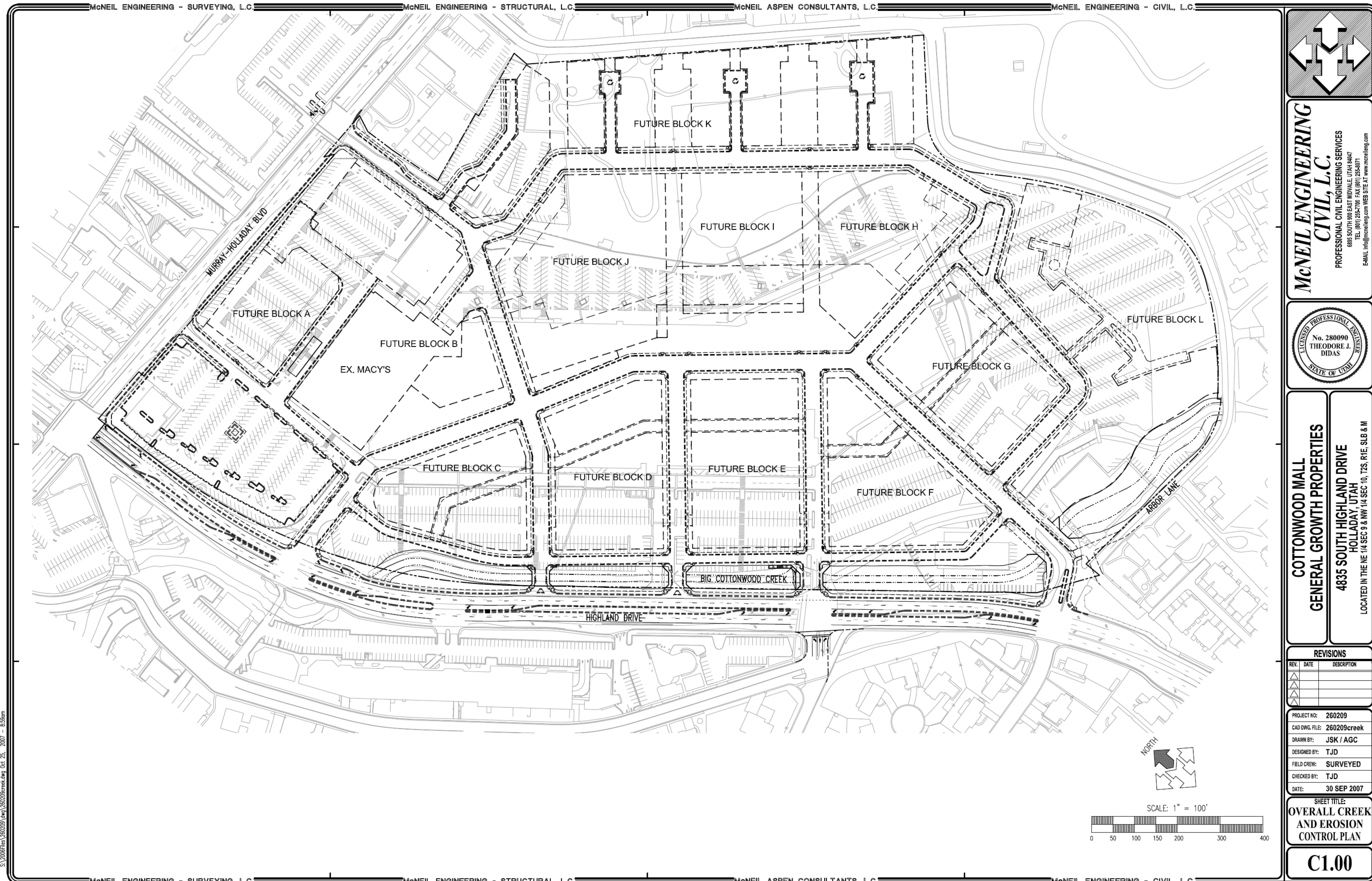
SB
ARCHITECTS

SASAKI

RTKL

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Civil Plans - Creek Relocation



Draft Date: 12/11/07

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Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO.
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS

McNEIL
Engineering, Inc.

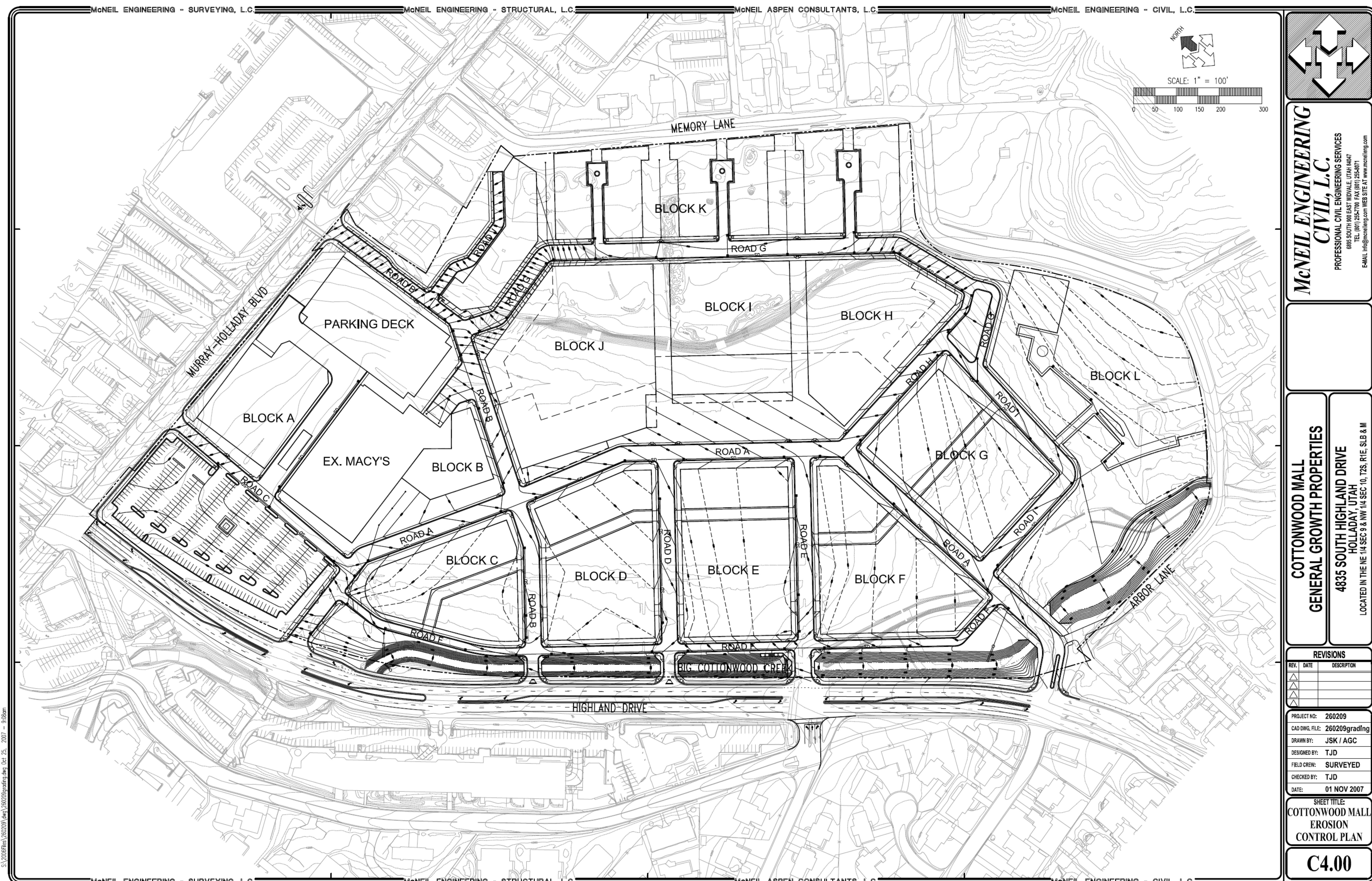
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ARCHITECTS

SASAKI

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Civil Plans - Grading



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General Growth Properties, Inc.
110 North Wacker Drive
Chicago, IL 60606
(312) 960-5000

Cottonwood

Site Development Master Plan - Regional Mixed-Use Development

City of Holladay, County of Salt Lake, State of Utah

DUANY PLATER - ZYBERK & CO
ARCHITECTS AND TOWN PLANNERS

TORTI GALLAS AND PARTNERS


McNEIL
 Engineering, Inc.

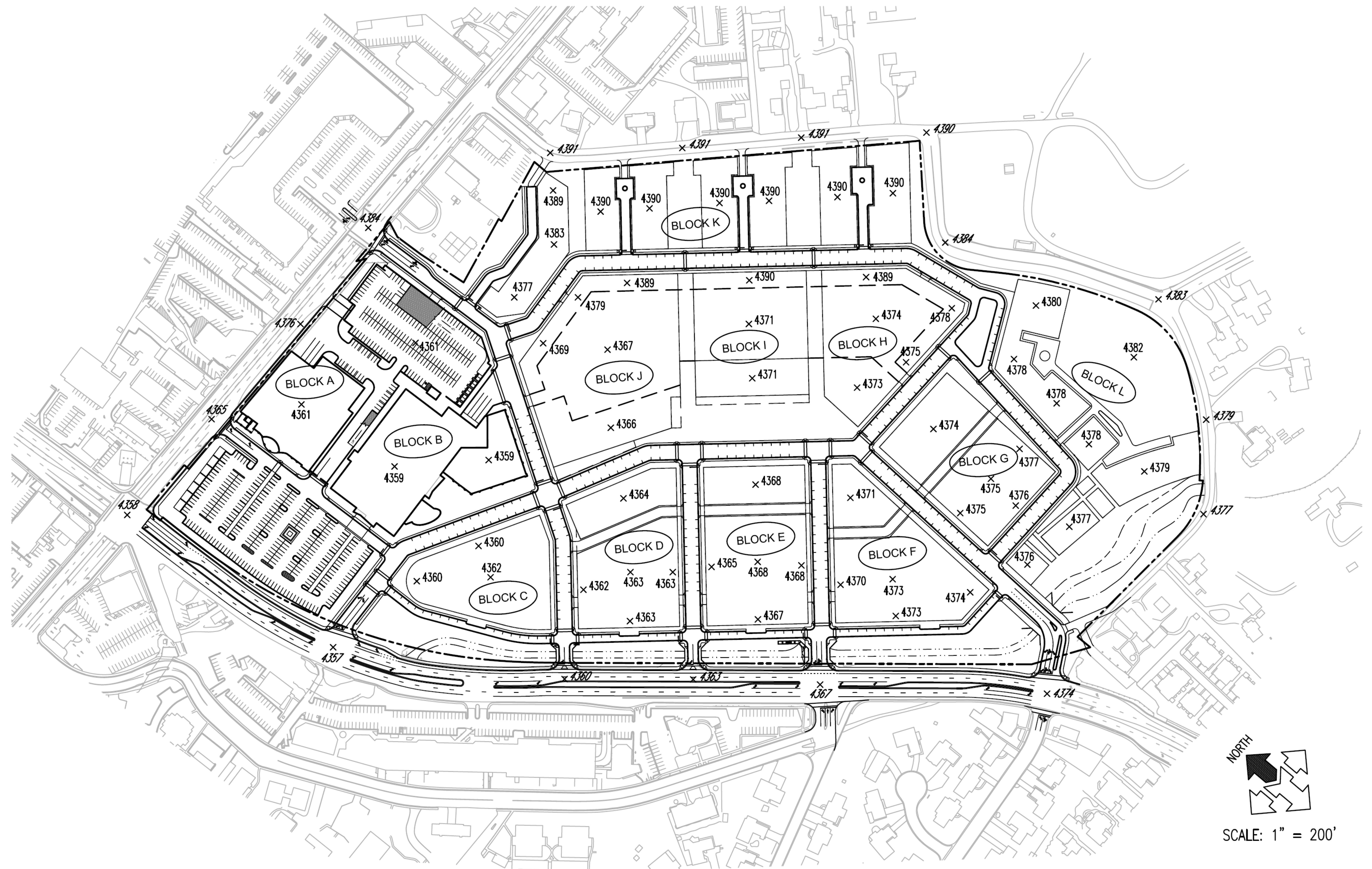
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Civil Plans - Center Building Proposed Elevations



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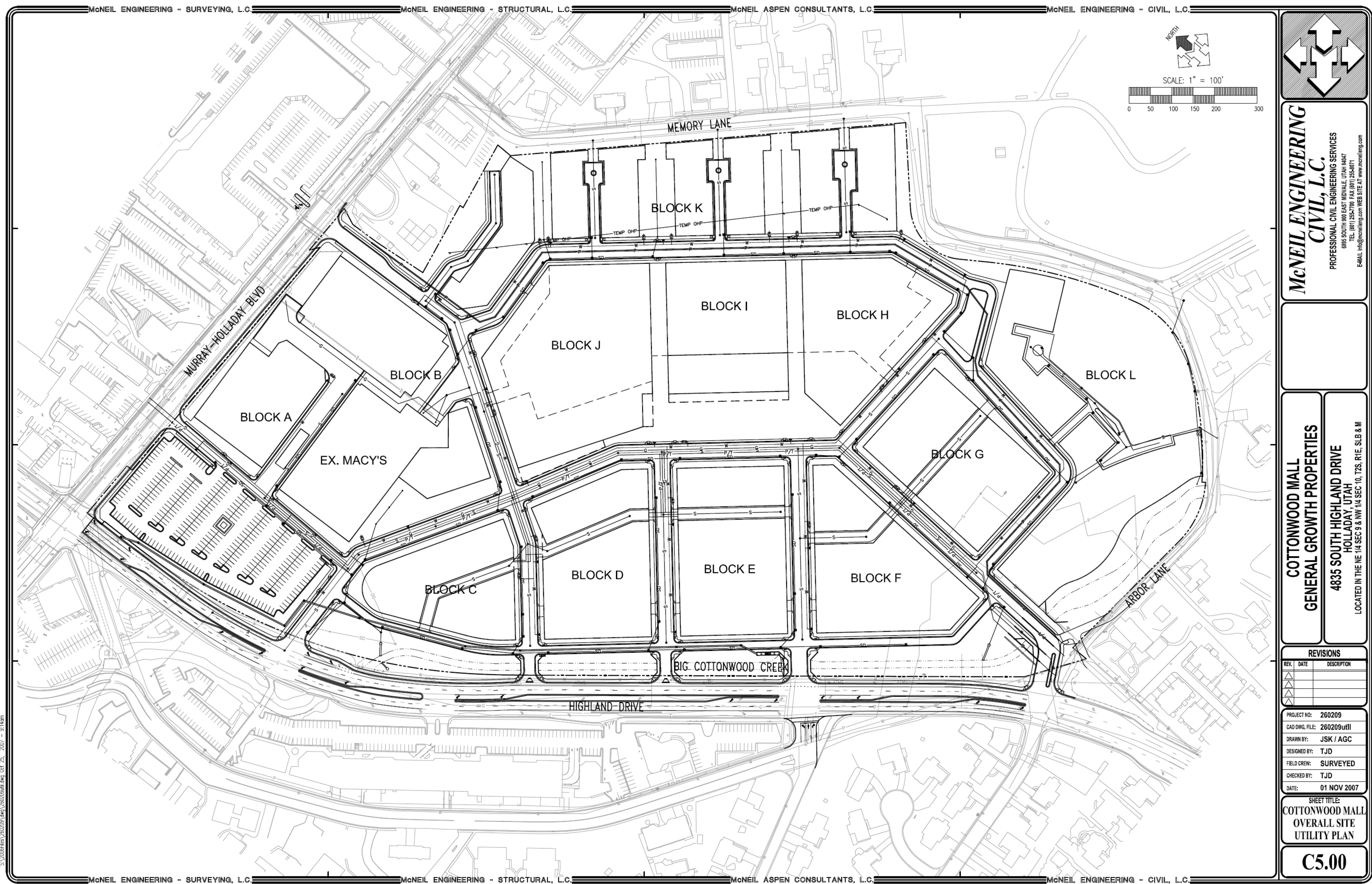
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Civil Plans - Site Utility Plan



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Site Construction/Environmental Quality Control Plan

R307-309-6. Fugitive Dust Control Plan.

(1) Any person owning or operating a new or existing source of fugitive dust, including storage, hauling or handling operations, or engaging in clearing or leveling of land one-quarter acre or greater in size, earthmoving, excavation, or movement of trucks or construction equipment over cleared land one-quarter acre or greater in size or access haul roads, or engaging in demolition activities includingrazing homes, buildings or other structures shall submit a plan to control fugitive dust to the executive secretary no later than 30 days after the source becomes subject to R307-309. The plan shall address fugitive dust control strategies for the following operations as applicable:

- (a) Material Storage;
- (b) Material handling and transfer;
- (c) Material processing;
- (d) Road ways and yard areas;
- (e) Material loading and dumping;
- (f) Hauling of materials;
- (g) Drilling, blasting and pushing operations;
- (h) Clearing and leveling;
- (i) Earth moving and excavation;
- (j) Exposed surfaces;
- (k) Any other source of fugitive dust.
- (2) Strategies to control fugitive dust may include:
 - (a) Wetting or watering;
 - (b) Chemical stabilization;
 - (c) Enclosing or covering operations;
 - (d) Planting vegetative cover;
 - (e) Providing synthetic cover;
 - (f) Wind breaks;
 - (g) Reducing vehicular traffic;
 - (h) Reducing vehicular speed;
 - (i) Cleaning haul trucks before leaving loading area;
 - (j) Limiting pushing operations to wet seasons;
 - (k) Paving or cleaning road ways;
 - (l) Covering loads;
 - (m) Conveyor systems;
 - (n) Boots on drop points;
 - (o) Reducing the height of drop areas;
 - (p) Using dust collectors;
 - (q) Reducing production;
 - (r) Mulching;
 - (s) Limiting the number and power of blasts;
 - (t) Limiting blasts to non-windy days and wet seasons;
 - (u) Hydro drilling;
 - (v) Wetting materials before processing;
 - (w) Using a cattle guard before entering a paved road;
 - (x) Washing haul trucks before leaving the loading site;
 - (y) Terracing;
 - (z) Cleaning the materials that may create fugitive dust on a public or private paved road promptly; or
 - (aa) Preventing, to the maximum extent possible, material from being deposited onto any paved road other than a designated deposit site.
- (3) Each source shall comply with all provisions of the fugitive dust control plan as approved by the executive secretary.

Groundwater Pumping Intent Statement:

Groundwater pumping with discharge to Big Cottonwood Creek has historically been utilized to protect Cottonwood Mall structure(s). Groundwater pumping will continue to be utilized to protect current and future structure(s) that penetrate the groundwater table, subject to city approval of means and methods during the building permit process.

GGP shall comply with Salt Lake Valley Noise Ordinance:

SALT LAKE VALLEY HEALTH DEPARTMENT
HEALTH REGULATIONS
#21
NOISE CONTROL
Adopted by the Salt Lake City-County
Board of Health
September 6, 1984
Amended September, 2000
Under Authority of Section 26A-1-121
Utah Code Annotated 1953, as Amended
CERTIFIED OFFICIAL COPY
SALT LAKE VALLEY HEALTH DEPARTMENT
By
Kathryn N. Yost, M.D., M.P.H.
Executive Director
DRAFT COPY February 2001
HEALTH REGULATIONS
#21
NOISE CONTROL

In addition to compliance with Salt Lake Valley Noise Ordinance, GGP shall comply with the City of Holladay Noise Ordinance Amendment which states working hours shall only consist during the times of 8:00am to 10:00pm.

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Cottonwood
Site Development Master Plan - Regional Mixed-Use Development
City of Holladay, County of Salt Lake, State of Utah

GENERAL NOTES:

SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557 EXCEPT UNDER BUILDING FOUNDATION WHERE IT SHALL BE 98% MIN. OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED REGISTERED SOILS ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED, HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS & SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.

THE CONTRACTOR IS TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. SPECIFIC NOTES AND DETAILS SHOWN ON SHEET C6.03 SHALL BE USED IN COMBINATION WITH OTHER ACCEPTED LOCAL PRACTICES.

EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THOSE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF CONTRACTOR'S FAILURE TO VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT.

GENERAL NOTES:

THE CONTRACTOR SHOULD RECOGNIZE THE FOLLOWING GUIDELINES:

1. CONTRACTOR TO OBTAIN AND COMPLY WITH ALL U.P.D.E.S. REQUIREMENTS FROM THE UTAH DEPARTMENT OF ENVIRONMENTAL QUALITY, WATER DIVISION, (801)-538-6951.
2. CONTRACTOR SHOULD FOLLOW A SPECIFIED WORK SCHEDULE THAT COORDINATES THE TIMING OF LAND-DISTURBING ACTIVITIES. THE REMOVAL OF SURFACE GROUND COVER LEAVES A SITE VULNERABLE TO ACCELERATED EROSION.
3. LIMIT LAND CLEARING AND RESTORE PROTECTIVE COVER QUICKLY.
4. SCHEDULE PROJECTS TO DISTURB ONLY SMALL PORTIONS OF THE SITE AT ANY ONE TIME.
5. COMPLETE GRADING AS SOON AS POSSIBLE.
6. IMMEDIATELY STABILIZE THE DISTURBED PORTION BEFORE GRADING THE NEXT.
7. PRACTICE STAGED SEEDING IN ORDER TO RE-VEGETATE CUT AND FILL SLOPES AS THE WORK PROGRESSES.
8. STABILIZE OPEN TRENCHES AS SOON AS POSSIBLE.
9. SEQUENCE TRENCHING PROJECTS SO THAT MOST OPEN PORTIONS OF THE TRENCH ARE CLOSED BEFORE NEW TRENCHING IS BEGUN.
10. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.
11. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF HOLLOWAY CITY MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
12. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS DEPOSITED BY TRAFFIC FROM THE SITE.
13. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES SHALL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY, AND REMOVED WHEN THE SITE IS PAVED.
14. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
15. BLOWING DUST MUST BE CONTROLLED AT ALL TIMES. INSTALLATION OF A SILT FENCE AND SITE WATERING SHALL BE USED TO CONTROL DUST. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS ABSOLUTELY PROHIBITED.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
17. ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACK-FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
18. ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS SHALL BE DONE IMMEDIATELY UPON DISCOVERY.
19. ALL UTILITY LINES SHALL BE CLEANED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE. DOWNGRADE LINES MUST BE PROTECTED FROM WASH-WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS.
20. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 100% OF ALL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
21. LIMITS OF DISTURBANCE TO BE STAKED BEFORE ANY CONSTRUCTION.

Air Quality Monitoring: General Growth Properties will monitor air quality of the site during demolition and construction according to compliance with all State and Federal Regulations associated with Air Quality Control and Dust Mitigation as further described above.

SILTATION AND SEDIMENT CONTROL MEASURES:

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.

2. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.

3. AFTER SEWER UTILITY TRENCHES ARE BACK-FILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A CROWNED STREET.

4. PROVIDE A SANDBAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.

5. SANDBAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.

6. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.

7. ANY PROPOSED ALTERNATIVE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES, I.E., CITY ENGINEER, DEPARTMENT OF FLOOD CONTROL, ETC.

EROSION CONTROL:

1. ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF HOLLOWAY CITY THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.

2. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.

3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.

4. APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.

5. CATCH BASINS, DE-SILTING BASINS AND STORM DRAIN SYSTEM SHALL BE INSTALLED TO THE SATISFACTION OF HOLLOWAY CITY.

6. SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY HOLLOWAY CITY PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY HOLLOWAY CITY.

LONG TERM MAINTENANCE (POST-CONSTRUCTION):

1. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.

2. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORM WATER REGULATIONS AT ALL TIMES. THE BMP'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORM WATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE RESPONSIBILITY OF THE PERMITTEE, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY HOLLOWAY CITY OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.

3. EMPLOYEE'S OF THE FACILITY MUST BE TRAINED TO MAINTAIN THE PROPERTY SO THE STORM WATER DOES NOT COME IN CONTACT WITH ANY POLLUTANTS. THE FOLLOWING PRECAUTIONS SHALL BE PERFORMED BY THE EMPLOYEE'S:

A) PERIODIC INSPECTIONS OF THE CATCH BASIN SEDIMENT TRAPS INCLUDING CLEANING WHEN THE TRAP IS MORE THAN HALF FULL. INSPECTIONS MUST BE DONE AFTER EVERY MAJOR RAINFALL, OR ONCE EVERY 6 MONTHS AS A MINIMUM. DISPOSAL OF ANY REMOVED GREASE OR OIL MUST BE DONE IN ACCORDANCE WITH CURRENT ENVIRONMENTAL REGULATIONS.

B) LITTER, DEBRIS, AND CHEMICALS MUST BE PICKED UP OR MOVED INDOORS PRIOR TO ANTICIPATED STORM EVENTS (FORECASTED BY LOCAL WEATHER REPORTS), OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.

C) PARKING AREAS MUST BE KEPT FREE FROM AUTOMOBILE FLUIDS (OIL, ANTFREEZE, ETC.) AS TO NOT WASH INTO STORM DRAIN SYSTEM. SPILLS MAY BE SOAKED UP WITH SAWDUST OR LIKE MATERIAL AND PROPERLY DISPOSED.

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Geotechnical Data and Studies

REPORT
EARTHWORK AND PAVEMENT
RECOMMENDATIONS
COTTONWOOD MALL
4835 SOUTH HIGHLAND DRIVE
HOLLADAY, UTAH

Submitted To:

General Growth Properties, Inc.
35 Century Park Way
Salt Lake City, Utah 84115

Submitted By:

Gordon Spilker Huber Geotechnical Consultants, Inc.
4426 South Century Drive, Suite 100
Salt Lake City, Utah 84123

October 12, 2007
Job No. 0335-004-07

GSH
Gordon Spilker Huber
Geotechnical Consultants, Inc.

October 12, 2007
Job No. 0335-004-07

General Growth Properties, Inc.
35 Century Park Way
Salt Lake City, Utah 84115

Attention: Ms. Kathy Olson and Mr. Patrick Peterman

Ladies and Gentlemen:

Re: Report
Earthwork and Pavement Recommendations
Cottonwood Mall
4835 South Highland Drive
Holladay, Utah

1. INTRODUCTION

1.1 OBJECTIVES AND SCOPE

The objectives and scope of the study were planned in discussions between Mr. Patrick Peterman and Ms. Kathy Olson of General Growth Properties, Inc., and Messrs. Bill Gordon and Josh Whitney of Gordon Spilker Huber Geotechnical Consultants, Inc. (GSH).

In general, the objective of this study was:

- Provide initial earthwork and pavement recommendations to be utilized in the design and construction of the proposed facilities.

In accomplishing this objective, our scope has included the following:

- An office program consisting of the correlation of available data, engineering analysis, and the preparation of this summary report.

1.2 AUTHORIZATION

Authorization was provided verbally by Mr. Patrick Peterman and Ms. Kathy Olson of General Growth Properties, Inc.

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GSH
Gordon Spilker Huber
Geotechnical Consultants, Inc.

General Growth Properties, Inc.
Job No. 0335-004-07
Earthwork and Pavement Recommendations
October 12, 2007

1.3 PROFESSIONAL STATEMENTS

Supporting data upon which our recommendations are based are presented in subsequent sections of this report. Recommendations presented herein are governed by the physical properties of the soils encountered within the site, the experience of the investigators, borings, and trenches, measured and projected groundwater conditions, and the layout traffic data discussed in Section 3. Proposed Construction of this report. If subsurface conditions other than those described in this report are encountered and/or if layout or traffic data changes, GSH must be informed so that our recommendations can be reviewed and amended, if necessary.

Our professional services have been performed, our findings developed, and our recommendations prepared in accordance with generally accepted engineering principles and practices in this area at this time.

2. EXISTING CONSTRUCTION

The existing primary mall structure ranges from one-eleventh to three levels in height. In addition, there are one- to two-level satellite structures. All of the structures are supported upon conventional spread and continuous wall foundations established upon suitable natural soils and/or structural granular fill. Except for some utility tunnels, the structures do not include below-grade levels. Shorty, the structures, except for the Macy's store at the north end of the primary mall structure, will be demolished.

3. PROPOSED CONSTRUCTION

The proposed redevelopment of Cottonwood Mall will consist of 12 individual blocks. Structures will range from one to seven levels and will be of wood-frame, concrete, steel, and CMU construction. Most of the proposed structures will be established with their first level at approximate proposed final grade. A few of the structures may include one to two levels of below-grade parking. Loads associated with many of the new structures will be higher than those imposed by the existing structures.

Site development in areas will require site grading fill up to seven feet thick. In the far eastern higher topographic areas of the site, cuts as much as 10 to 15 feet are proposed. These soils will be used as structural fill. Except for some utility tunnels, the structures do not include below-grade levels. Shorty, the structures, except for the Macy's store at the north end of the primary mall structure, will be demolished.

Roadways associated with the proposed development are shown on Figure 1, Pavement Layout. Based upon proposed traffic, the pavements have been divided into three categories. The categories and projected traffic, provided by Billy Hartaway of Glattung Jackson Karcher Aulgin and Ted Didas of McNeil Engineering, Inc., are summarized on the following page.

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4. SITE CONDITIONS

4.1 SURFACE

The site is bounded by 4900 South (Murray-Holladay Boulevard) to the north. Highland Drive and Big Cottonwood Creek bound the site to the west. The site is bounded by Arbor Lane to the south. Memory Lane bounds the site to the east.

The site slopes down to the southwest with an overall elevation change of 40 feet across the site. A significant elevation break runs in a north/northwest-to-south/southwest direction about 100 to 200 feet east of the east side of the primary mall structure. The slope break is generally approximately 20 to 25 feet high.

Areas not occupied by structures, and except for a few landscaped islands, are paved. The existing pavement is generally in fair condition and was upgraded approximately 15 years ago. Originally, approximately one to two inches of asphalt concrete was encountered. The original pavement was structurally inadequate and failed. After the pavements were upgraded, approximately three to four inches of asphalt concrete were encountered.

4.2 SUBSURFACE SOIL

During the course of the previous studies, asphalt concrete underlain by one-half to eight feet of fill was encountered. The fills will exhibit variable and, in most cases, relatively good engineering characteristics. In general, the majority of the fills are granular in nature.

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The surface pavement sections and fills are underlain by variable soils. To the west of the slope break, the soils are of alluvial origin. To the east, the soils are of lacustrine origin. West of the slope break, the subsurface soils range from silts and clays to sands and gravels. The fine-grained soils consist primarily of silty clay/clayey silts. When stiff, these soils exhibit moderate compressibility characteristics; however, zones of soft and organic fine-grained soils will exhibit high compressibility characteristics. Most of these soils were encountered in the upper 5 to 10 feet of the subsurface sequence. The granular soils consist of sands and gravels with trace to some silt. The clays, sands, and gravels exhibit relatively low compressibility characteristics. The fine-grained zones and granular zones varied in thickness up to 10 feet thick. The clays, sands, and gravels were extremely variable on the east and south sides of the existing mall structure. The clays, sands, and gravels were somewhat variable on the west side, but in general were more granular at the surface. The clays, sands, and gravels were somewhat variable on the north side, but in general were finer-grained at the surface.

The exception to the above is the soils east of the slope break east of the mall. In general, this area has not been paved and minor fills were encountered. Silty clays were encountered that extend to depths of 40 feet. The clays will exhibit moderate compressibility characteristics.

4.3 GROUNDWATER

During the course of the previous studies, groundwater levels were measured at depths of 3.5 to 11.0 feet in portions of the site. In the higher topographic areas east of the slope break, groundwater was measured at 14.0 to 37.3 feet. These groundwater levels have been measured over the last 27 years at different times throughout the years. Seasonal and longer-term groundwater fluctuations on the order of two to three feet must be anticipated with the highest levels occurring during the late spring and summer months.

5. DISCUSSIONS AND RECOMMENDATIONS

5.1 EARTHWORK

5.1.1 Site Preparation

Initial preparation of the site will consist of the demolition of the existing structures and pavements and the abandonment or relocation of existing utilities. Further preparation of the site must consist of the removal of all non-engineered fills, loose surficial soils, surface vegetation, potential deeper fills associated with previous structures, topsoil, and other deleterious materials from beneath an area extending at least three feet beyond the perimeter of the proposed buildings, pavements, and exterior flatwork. In the demolition of existing buildings, all floor slabs and foundations must be removed from proposed building areas. In proposed pavement areas, the foundations and floor slabs may remain if at least 12 inches below the new system. Floor slabs should, however, be broken up so that they do not act as water traps.

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Earthwork and Pavement Recommendations
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Subsequent to the above operations and prior to the placement of footings, structural site grading fill, floor slabs, pavements, and exposed subgrade will be established by running non-weighted rubber tired construction equipment uniformly over the site at least three times. If excessively soft or otherwise unstable soils are encountered beneath footings, they must be totally removed. In pavement, floor slab, and outside flatwork areas, unsuitable natural soils should be removed to a maximum depth of two feet and replaced with compacted granular structural fill.

Surface vegetation and other deleterious materials should generally be removed from the site. Topsoil, if encountered, although unsuitable for utilization as structural fill, may be stockpiled for subsequent landscaping purposes. Broken-up concrete and asphalt concrete and existing non-engineered fill can be re-utilized as structural site grading fill if meeting the requirements stated in this report.

5.1.2 Temporary Excavations

Temporary construction excavations through cohesive soils, not exceeding four feet in depth, and above or below the water table may be conducted with non-vertical slopes. Temporary excavations up to eight feet deep in cohesive soils may be conducted with sideslopes no steeper than one-half horizontal to one vertical. Temporary excavations up to eight feet deep in granular soils above the water table may be conducted with sideslopes no steeper than one horizontal to one vertical. Excavations deeper than eight feet are not anticipated. Groundwater should be anticipated at depths of 3.5 to 37.3 feet below grade and possibly shallower. If excessive sloughing occurs or if layers of clean granular material are encountered, the sideslopes must be flattened and dewatering or shoring provided. Excavations below the groundwater in the granular soils will be extremely difficult due to flowing sands. To reduce disturbance, we recommend that excavation for footings be accomplished utilizing a backhoe with a smooth-slip bucket.

All excavations must be inspected periodically by qualified personnel. If any signs of instability are noted, immediate remedial action must be initiated.

5.1.3 Structural Fill

Structural fill may be used as fill ultimately will be subjected to structural loads, such as those imposed by footings, floor slabs, pavements, etc. Structural fill will be required as backfill over foundations and utilities, as site grading fill, and as replacement fill below footings. Structural site grading fill is defined as fill placed over fairly large open areas to raise overall site grades.

All structural fill must be free of sod, organic material, rubbish, debris, frozen soil, and other deleterious materials. Structural fill placed below a level one foot above the groundwater table at the time of construction, or to stabilize soft or wet subgrade conditions, should consist of a mixture of clean coarse gravels and cobbles, or a mixture of one and one-half to two-inch minus gap-graded gravel.

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Structural site grading fill should have a maximum particle size generally not exceeding four inches in diameter. However, occasional particles up to six to eight inches in diameter may be randomly incorporated provided that they do not result in "honeycombing" or preclude obtaining the desired degree of compaction. The maximum particle size for structural fill placed within confined areas, such as footings and utility trenches, should generally not exceed two and one-half inches. Broken-up concrete and asphalt concrete meeting the above requirements may be incorporated into structural site grading fill.

All imported granular structural fill should consist of a fairly well-graded mixture of sand and gravel containing less than 18 percent fines (by weight of material passing the U.S. No. 200 sieve). Imported fine-grained soils must have a plasticity index of less than 18 percent. It is projected that the on-site clays will meet this requirement. It is our understanding that significant amounts of fill soil will be brought to the site. It is our strong recommendation that the upper 12 inches of fill placed especially in pavement areas be granular. This granular fill meeting previously described parameters and having a California Bearing Ratio (CBR) value of at least 20 percent will satisfy the subbase requirement for the pavement sections recommended in Section 5.2, Pavements.

Suitable on-site natural soils and the existing non-engineered fills meeting the requirements stated above may be re-utilized as structural site grading fill. These soils, however, if fine-grained will not be suitable for use as structural fill in confined areas, such as below or around footings, adjacent to foundation walls, and within utility trenches. Only predominantly granular soils meeting the above requirements are recommended as structural fill in confined areas. It should be noted that, in a handling and compaction standpoint, fine-grained soils are very sensitive to changes in moisture content, and that very close moisture control will be required during placement and compaction. This will be very difficult, if not impossible, during wet and cold periods of the year.

Non-structural site grading fill is defined as all fill material not designated as structural fill and may consist of any cohesive granular soils not containing excessive amounts of degradable material.

5.1.4 Fill Placement and Compaction

All structural fill placed should be placed in lifts not exceeding eight inches in loose thickness. Beyond structures and up to 10 feet thick, the fill must be compacted to at least 95 percent of the maximum dry density as determined by the AASHTO T-180 (ASTM D-1557) compaction criteria. Structural fills greater than 10 feet are not anticipated at the site. Structural fills less than 5 feet thick and outside the building areas but beneath outside flatwork and pavements should be compacted to at least 90 percent of the above-defined criteria. If greater than 5 feet thick, compaction should be increased to at least 92 percent.

The on-site fine-grained cohesive soils fills are not recommended for use as trench backfill.

5.2 PAVEMENTS

All structural fill placed should be placed in lifts not exceeding eight inches in loose thickness. Beyond structures and up to 10 feet thick, the fill must be compacted to at least 95 percent of the maximum dry density as determined by the AASHTO T-180 (ASTM D-1557) compaction criteria. Structural fills greater than 10 feet are not anticipated at the site. Structural fills less than 5 feet thick and outside the building areas but beneath outside flatwork and pavements should be compacted to at least 90 percent of the above-defined criteria. If greater than 5 feet thick, compaction should be increased to at least 92 percent.

For design, it is projected that the typical pavement subgrade will consist of silty clay and silty clay/clayey silt soils. These soils will exhibit poor pavement support characteristics when saturated or near saturated. Project traffic information was provided by Billy Hartaway of Glattung Jackson Karcher Aulgin and Ted Didas of McNeil Engineering, Inc. and was discussed

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¹ American Association of State Highway and Transportation Officials
² American Society for Testing and Materials

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In Section 3., Proposed Construction. With the subgrade soils and the projected traffic, the following pavement sections are recommended:

Primary Roadway Areas

(High Volume of Automobiles and
Moderately High Volume of Light- to Medium-Weight Trucks
and Light Volume of Heavy-Weight Trucks)
(100 equivalent 18-kip axle loads per day)

Flexible:

5.0 inches Asphalt concrete
6.0 inches Aggregate base course
10.0 inches Granular subbase*

Over Properly prepared natural soils, properly prepared existing fill, and/or structural site grading fill extending to suitable natural soils or to properly prepared existing fills

* Granular structural site grading fill exhibiting a CBR value of at least 20 percent will satisfy this requirement.

Rigid:

6.5 inches Portland cement concrete (non-reinforced)
6.0 inches Aggregate base course
Over Suitable natural soils and/or structural site grading fill extending to suitable natural soils

Secondary Roadway Areas and Service Alleys

(Moderate Volume of Automobiles and
Light- to Medium-Weight Trucks
and Light Volume of Heavy-Weight Trucks)
(40 equivalent 18-kip axle loads per day)

Flexible:

4.5 inches Asphalt concrete
5.0 inches Aggregate base course
10.0 inches Granular subbase*

Over Properly prepared natural soils, properly prepared existing fill, and/or structural site grading fill extending to suitable natural soils or to properly prepared existing fills

* Granular structural site grading fill exhibiting a CBR value of at least 20 percent will satisfy this requirement.

Rigid:

6.0 inches Portland cement concrete (non-reinforced)
6.0 inches Aggregate base course
Over Suitable natural soils and/or structural site grading fill extending to suitable natural soils

Secondary Pavements

Rigid pavements must not be established over non-engineered fill, even if properly prepared.

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Secondary Pavements

Rigid pavements must not be established over non-engineered fill, even if properly prepared.

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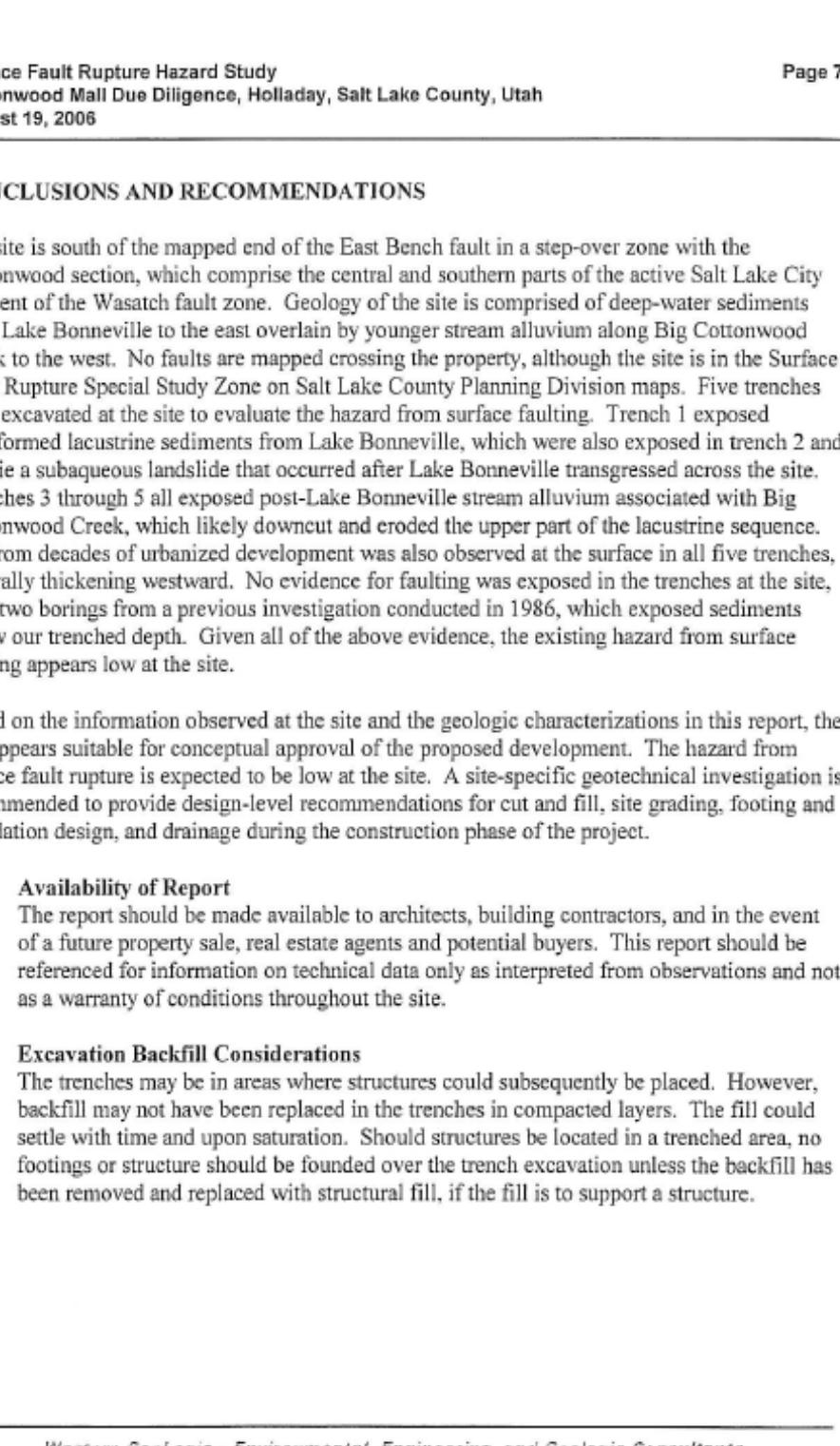
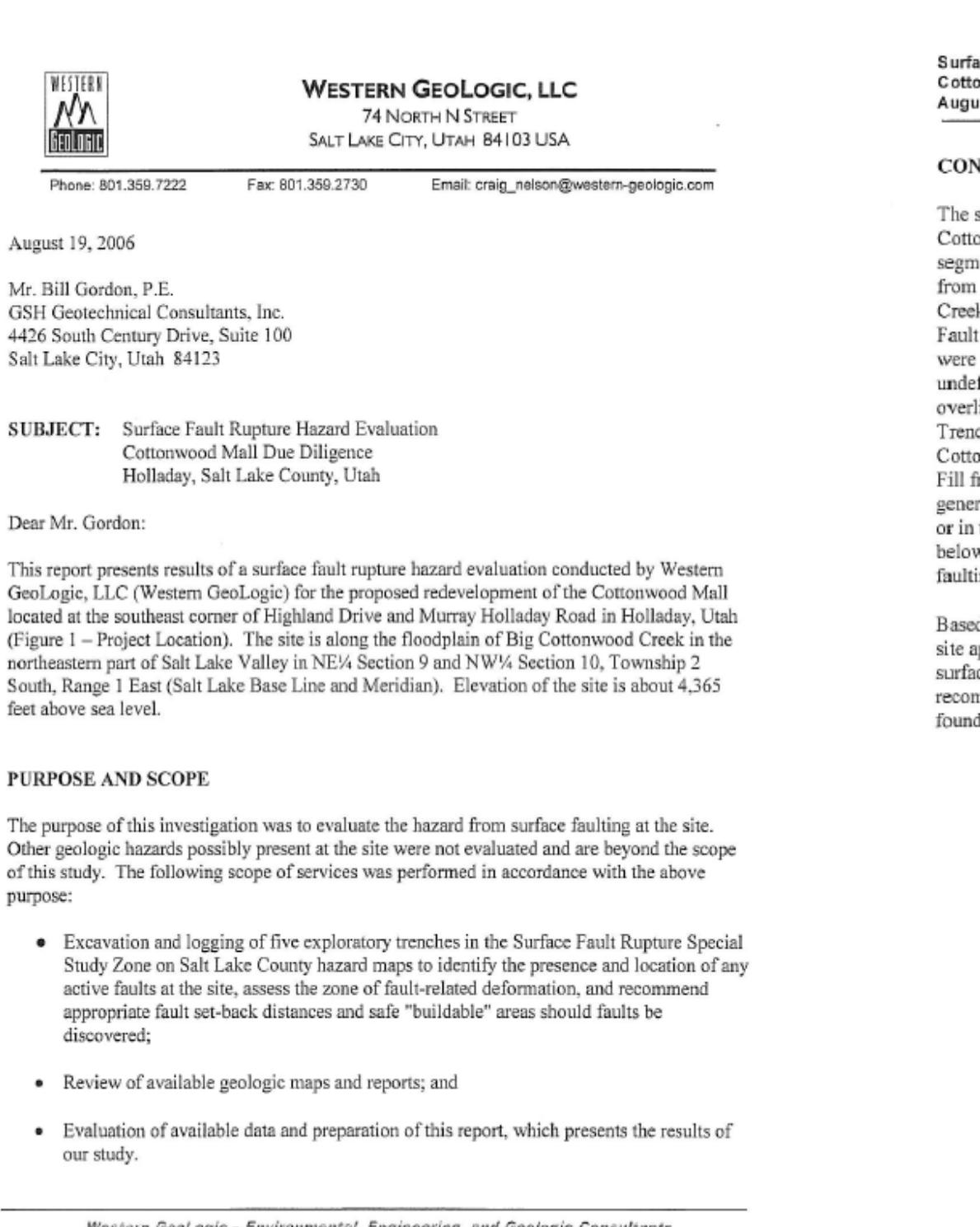
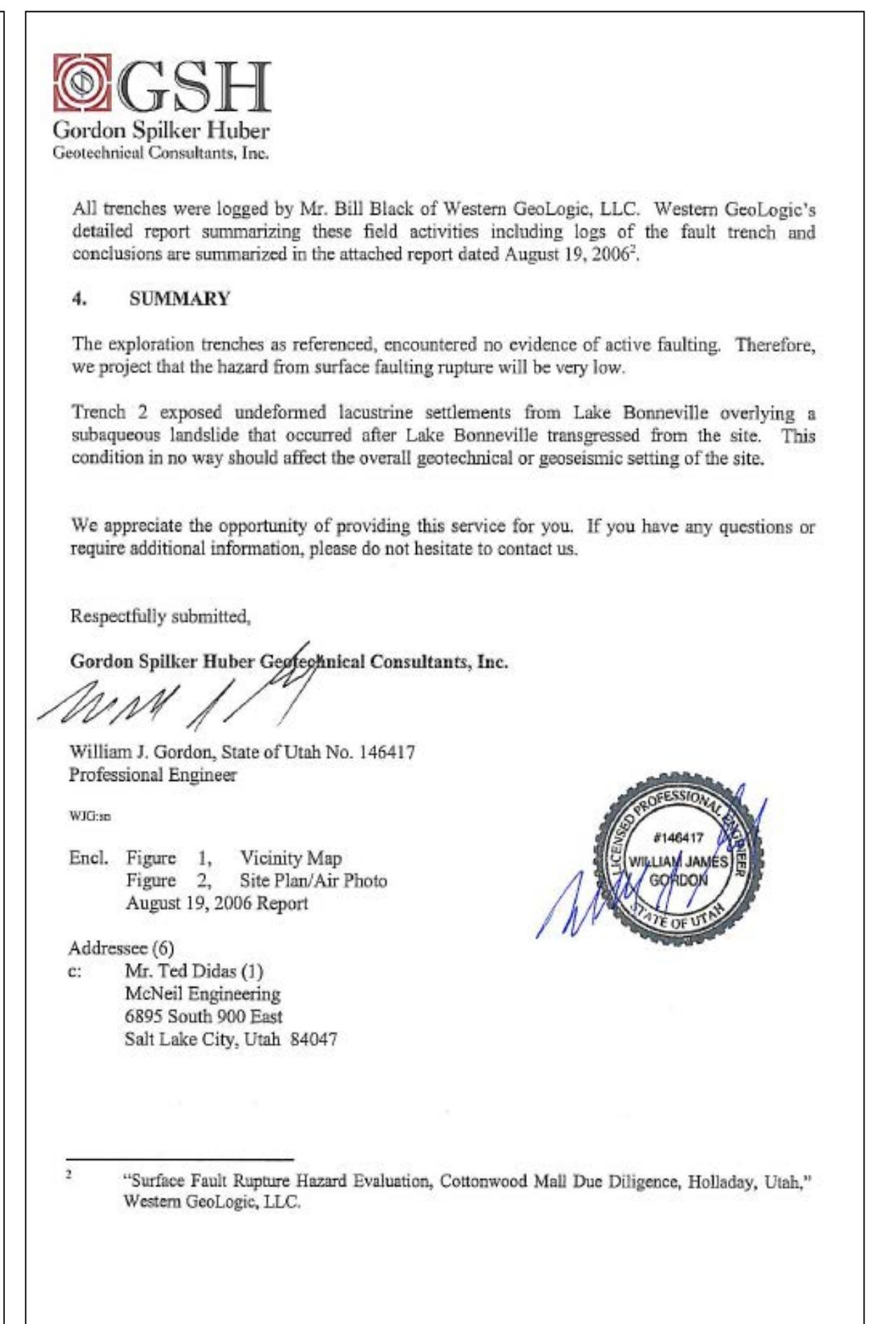
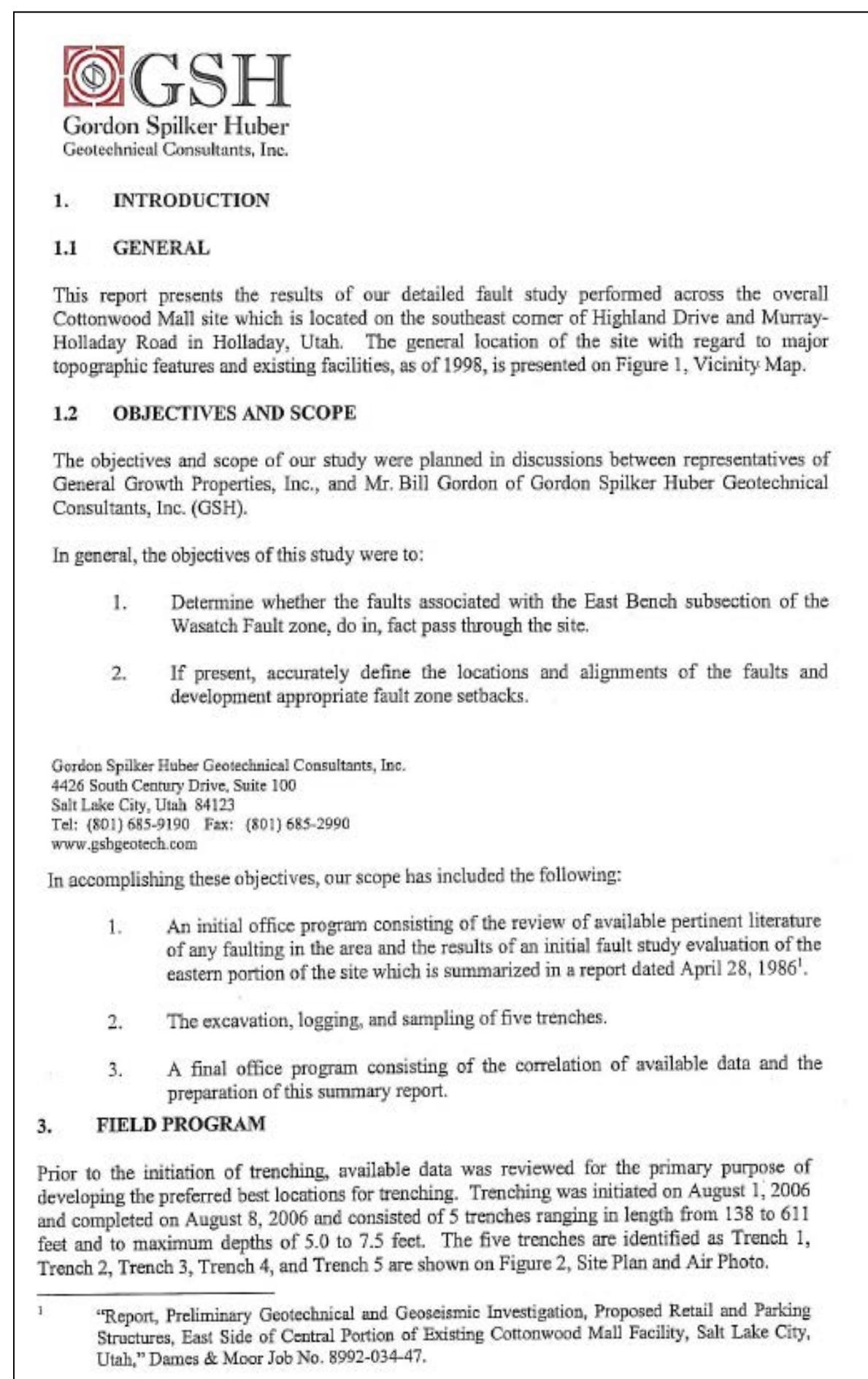
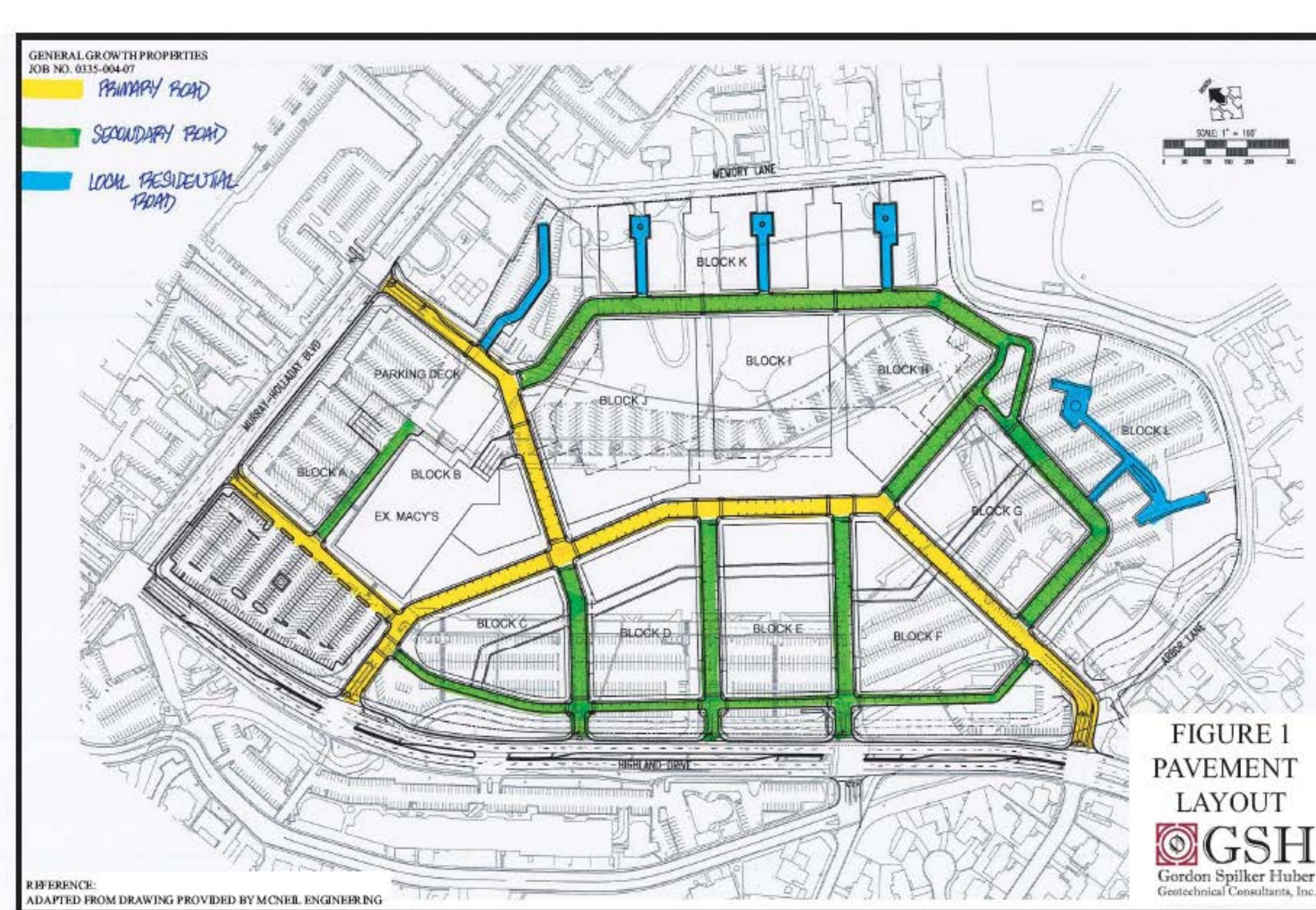
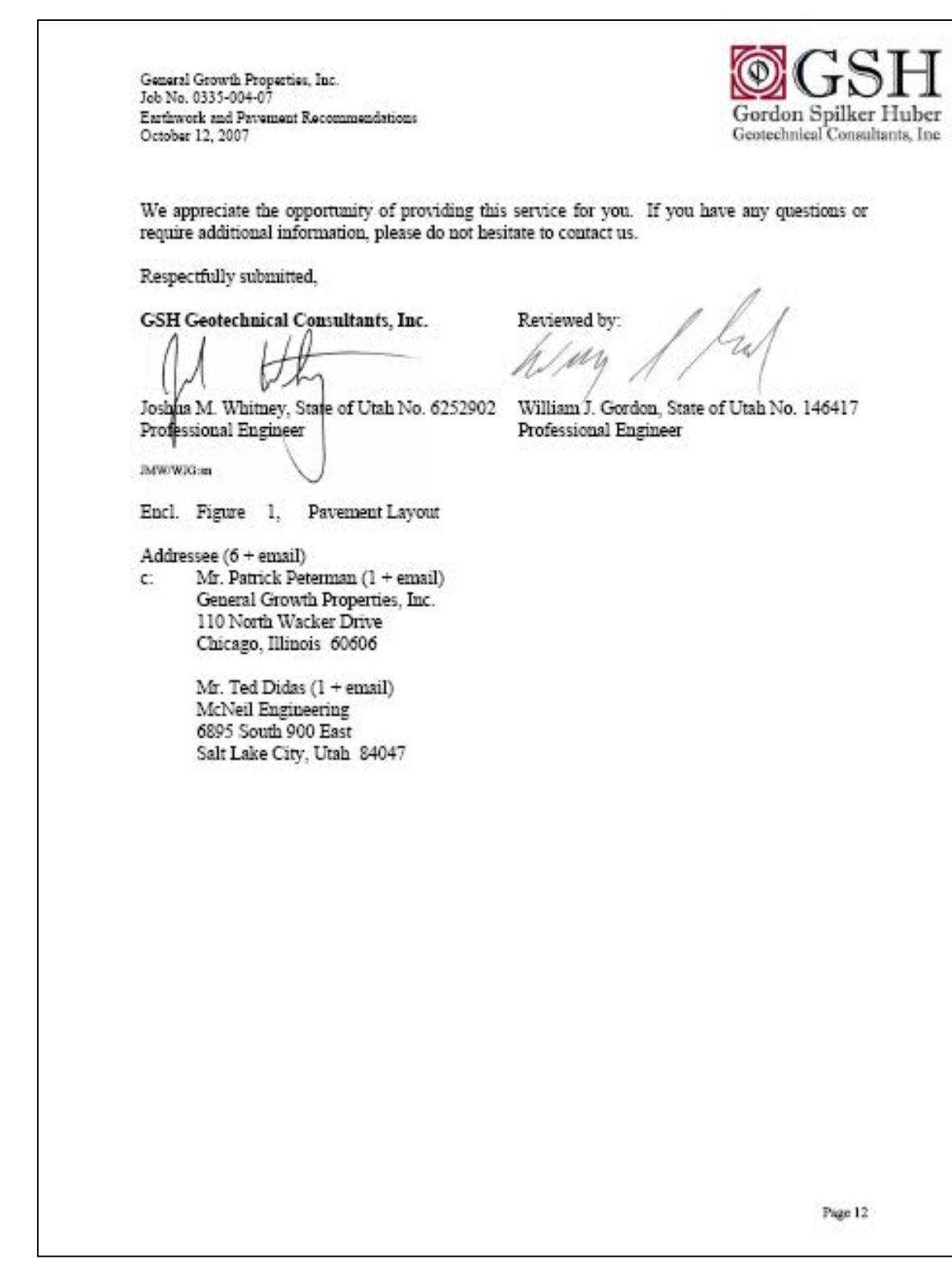
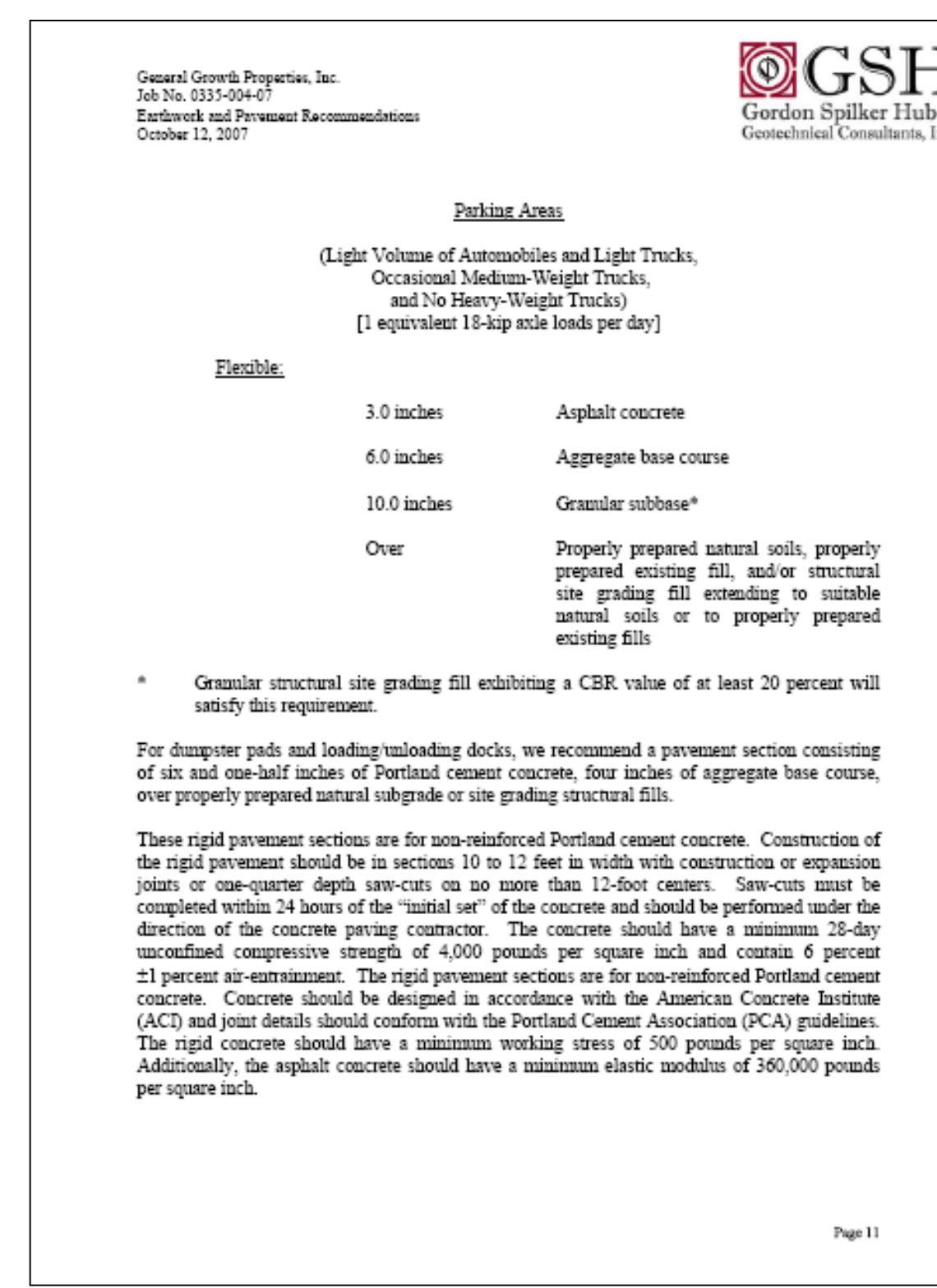
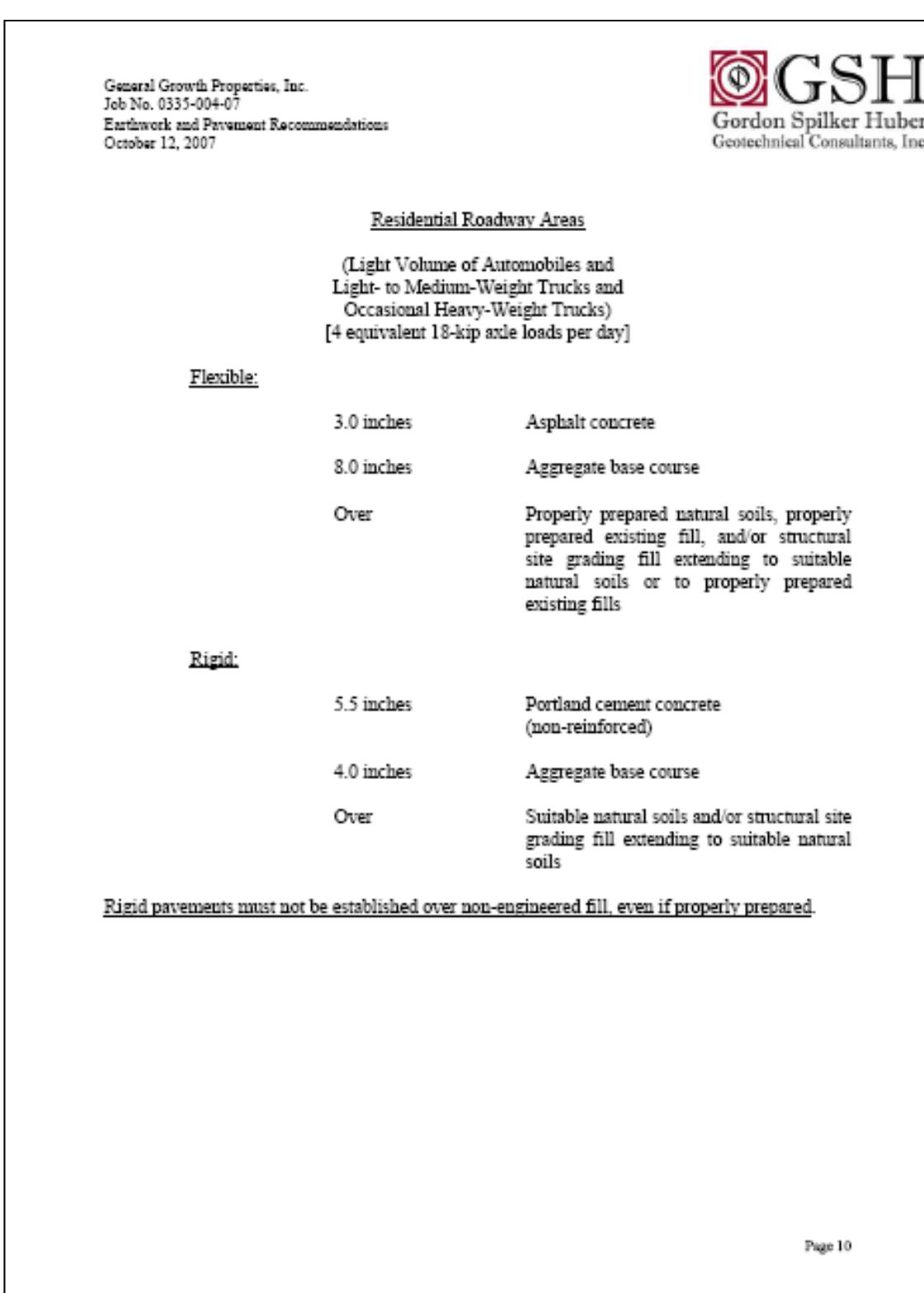
Secondary Pavements

Rigid pavements must not be established over non-engineered fill, even if properly prepared.

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Geotechnical Data and Studies



Prior to approval of each building permit(s) a site-specific geotechnical report, including liquefaction analysis and foundation design recommendation must be submitted for review.

