## FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

## PERMIT NO. F-

(filled in by staff)
Date


Other City Case \# $\qquad$ (if applicable)
Project Name
Powers and Elati
Project Address/Intersection W Powers Ave and S Elati St

## CONTACT INFORMATION

Applicant:


Phone number 303.689.1516 Email_tswan@waremalcomb.com

## Property Owner:

Name Iran Anaya Company South Metro Housing Options Address 5745 S. number) $\operatorname{SannOCh}_{\text {(city) }} \mathrm{St}$ Liftleton CO

Phone number $\qquad$ 726 $\qquad$ 50

Contractor:
Name $\qquad$ Company iaraya@smho.com Email $\qquad$

| BUILDING | CHANNEL | RECREATION | OTHER |
| :--- | :--- | :--- | :--- |
| Residential | Bank stabilization | trail | Roadway Bridge |
| Commercial | Grade control | ballfield | Parking lot |
| Fill for building | Outfall | trail bridge | Utility |
| Substantial improvement | Grading | playground | Other |

TYPE (circle all that apply):
Temporary (less than 6 months)
Emergency Repair
Permanent
Maintenance

FEMA Flood Insurance Study
Independent Engineer study

Source of BFE data:
FEMA Flood Insurance Rate Man
UDFCD Flood Hazard Area Delineation
Nature of the project (circle all that apply):

Grading

Rehabiliation

## FLOODWAY DATA

Is a REGULATORY Floodway defined by FEMA on the FIRM ?

$>$ If yes, attach a hydraulic analysis and no-rise certification from a Colorado Professional Engineer
$>$ If no, attach documentation of project limits outside of floodway limits (plan view drawing)
If there is no Floodway defined, but project is within the Floodplain:
$>$ Attach a hydraulic analysis and verification that project causes 6 inches or less of increase in 100year water surface elevation GRADE WITHIN ZONE AE IS NOT BEING
$>$ If project causes more than 6 inches of increase in 100-year water surface elevation, attach a hydraulic analysis, and a FEMA Conditional Letter of Map Revision is required

ATTACHMENTS (SEE LITTLETON MUNICIPAL CODE 10-6-8(A)):

| $7 X$ | Narrative report or letter describing <br> project | PE Certification of No Rise (if required, see above) |  |
| :--- | :--- | :--- | :--- |
| $X$ | Construction plans |  | Hydraulic Analysis (if required, see above) |

*Note: Other information may be required depending on requested activity
Applicants Acceptance of Terms \& Conditions. I understand that this permit is subject to the terms and conditions listed therein, and is not a permit to begin construction. I understand that construction approval is subject to separate permits and final construction plan approval.

Applicant Signature $\qquad$ Date 05/10/2019

## Staff Use Only

Review Checklist Below - Indicate if required

|  | 404 Permit application and approval | Construction Inspection by cityor UDFCD |  |
| :--- | :--- | :--- | :--- |
|  | CLOMR (Before Construction) | Floodplain/Elevation Certificate (post-construction) |  |
|  | Grading Permit / \# | As-Built Survey (post-construction) |  |
|  | Building Permit / \# | Certificate of Compliance (post-construction) |  |
|  | UDFCD Review for Maintenance Eligibility |  | LOMR (post-construction) |
|  | CWCB/UDFCD FHAD update (post <br> construction) | Other referral agencies needed |  |



| \% | Floodplain Development Permit | Approved by Floodplain Administrator | Yes | No | $\text { Initials }: \quad \text { Date } \% / 3 / 19$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Floodplain Use by Special Exception | Approved by Planning Commission | Yes | No | Date of PC hearing: |

## OWNER'S AUTHORIZATION LETTER

I certify that I am the owner of the property at 5599 South Elati Street in Littleton, CO. I am respectfully requesting processing and approval of the above referenced Use by Special Exception Floodplain permit review. I authorize the Applicant listed on this application to act on my behalf during the processing and presentation of this request. They shall be the principal contact with the City in processing this application.

$\qquad$
Owner Printed Name

"111 032019

August 23, 2019

City of Littleton
Water Resource Division
225 W. Berry Avenue
Littleton, CO 80120

Dear Ms. Roan,
The Powers and Elati Development consists of a 2-story senior housing building on a 1.2 acre site which is, in part, covered by the Slaughterhouse Gulch 100 year floodplain. There are currently six existing single family residential buildings on the site. All the existing buildings are out of the floodplain. The first level footprint of the building is comprised of a residential structure that has been placed out of the floodplain and a covered parking structure that is largely within the floodplain. The $2^{\text {nd }}$ floor of the building is above the first floor residential structure as well as the parking structure and is supported by columns where it overhangs the parking.

All work associated with this project including grading, site improvements and building construction are proposed to be outside of the floodway. The first level finished floor elevations are proposed to be a minimum 1' above the Base Flood Elevation however, the proposed grades within the floodplain are anticipated to match closely to the existing elevations.

It is our expectation that the Powers and Elati Development will have a nominal impact on the Slaughterhouse Gulch 100 year floodplain. We hope this explanation will assist in the administrative review of the floodplain development permit and we look forward to working with you further. Should you have any questions please contact me at (303) 689-1516

Sincerely,

## Ware Malcomb



Ted Swan
Director, Civil Engineering

Karl Onsager
Community Development
2255 W. Berry Ave.
Littleton, Colorado 80120
303-795-3778 (office)

Karl,

This package contains the documentation of the neighborhood meeting that was held 10/9/2019 for the South Metro Housing Options proposed senior housing at Powers \& Elati. This public meeting was held to as part of the Use by Special Exception (ENG19-0001 Use By Special Exception - Powers and Elati) and in order to initiate the Major Site Plan process.

The meeting was held at Littleton United Methodist Church, 5894 S. Datura St. Littleton, CO 80120 on 10/8/2019 from 4:00-6:00 pm. All property owners within 700' were notified by US Mail 7 days in advance of the meeting using a mailing list determined by the procedure outlined in the Property Owner Lookup Guide.

The meeting was attended by representatives of South Metro Housing Options, Shopworks Architecture and Ware Malcomb Civil Engineering. There were 2 attendees and we received one comment.

This package includes:

- Address list
- Notice
- Notice of Neighborhood Meeting Mailing Certificate
- Sign-in Sheet
- Comment Sheets for Use by Special Exception and Major Site Plan

Please feel free to contact me if you have any questions or concerns.

Sincerely,

LITTLETON CO 80120－1687
MCKINNEY TX 75070－8182
HIGHLANDS RANCH CO 80129－6220
LITTLETON CO 80160－0749
LITTLETON CO 80120－1657
DENVER CO 80260－4912
LITTLETON CO 80120－2409
HIGHLANDS RANCH CO 80129－6220
DENVER CO 80237－1517
LITTLETON CO 80127
DENVER CO 80222－3348
LITTLETON CO 80120－2335
LITTLETON CO 80127
LITTLETON CO 80161－3472
LITTLETON CO 80165－0002
GREENWOOD VILLAGE CO 80121－1336
COLUMBINE VALLEY CO 80123－7908
DENVER CO 80209－3725
LITTLETON CO 80120－2020
PARKER CO 80138－7804
DENVER CO 80231－4145
DENVER CO 80210－3337
DENVER CO 80209－1623
DENVER CO 80209
null
DENVER CO 80210－3550
null
LONE TREE CO 80124－9763
null
PARKER CO 80138－8463
DENVER CO 80222－5412
DENVER CO 80222－5316
DENVER CO 80222－5316
null
Dil null
Owner＿Mail＿Address
3595 S WASHINGTON ST
385 INVERNESS PKWY SUITE 140
04 HAYSTACK ROW
609 W LITTLETON BLVD SUITE 100
2431 EAGLEVIEW CIR
333 S MONROE ST STE 401
7415 METCALF AVE
5850 W QUARLES DR
13961 E SARATOGA PL
609 W LITTLETON BLVD SUITE 100
346 S SHERMAN ST
null
2255 W BERRY AVE
5400 S DELAWARE ST
333 S MONROE ST STE 401
2450 W MAIN ST
PO BOX 749
4725 S MONACO ST UNIT 200
10941 PARKER VISTA RD
11307 BELL CROSS CIR
706 W BERRY AVE
PO BOX 3075
271 SYLVESTOR PLACE
PO BOX 749
797 W POWERS AVE
8801 LIPAN ST
5745 S BANNOCK ST
271 SYLVESTOR PLACE
8036 E JEFFERSON PLACE
PO BOX 270876
1325 S COLORADO BLVD STE B－601
599 W LITTLETON BLVD
PO BOX 270876
PO BOX 3472
2255 W BERRY AVE
5727 S GREEN OAKS DR
7 WILLOWCROFT DR
$333 ~ S ~ M O N R O E ~ S T ~ S T E ~$ 010

Owner
LARA LEA APARTMENTS LLLP RED ROCKS INVESTMENTS LLC
SUGARBERRY HOLDINGS LLC DOGARBERRY CARE 679 LITTLETON LLC Z PORTFOLIO LLC CHURCH OF GOD HOLIN ROSA JOHN，ROSA JULIE
AJ MANAGEMENT LLC DOCTORS CARE

## null <br> LITTLETON CITY OF NORGREN INC

Z PORGRTFOLIO LLC
Z PORTFOLIO
LITTLETON CITY OF
LITTLETON CITY OF
298 POWERS LLC
TED DEVELOPMENT COMPANY LLC
DAVID WESLEY SCHULTZ REVOCABLE TRUST，DAWN ELIZABETH SCHULTZ REVOCABLE TRUST ACS I INVESTMENTS LLC

PRIMROSE PROPERTIES I LP，WILSON GREGORY J，PATAL KRISHNA，OLMSTEAD RANDEL E，COLONIA
DE LA DOR－LIN LLC，DORLIN INVESTMENTS LLC，PRIMROSE PROPERTIES II LP SPTMNR PROPERTIES TRUST
MARK R \＆LINDA L KASPER TRUST

ROSEWOOD LLC
JOHNSON NATHANIEL P
JOHNSON NATHANIELP LITTLETON HOUSING AUTHORITY MARK R \＆LINDA L KASPER TRUST

COPPER RIDGE APARTMENTS LLC
REGAL APARTMENTS LLC
REGAL APARTMENTS LLC
MELSTROM KURT A
EMERALD POINT APARTMENTS LLC
LENNON LEONARD J，LENNON MARY।
LITTLETON CITY OF
ZIMMERMAN JOSEPH W \＆LYNN B SWEENEY JOSEPH L \＆F CELESTA A ERNST TRUST
Z PORTFOLIO LLC

ROLAND A WILSON MARITAL TRUST
DENNIS J PETERSON TRUST \＆L FAYE PETERSON TRUS
DENNIS J PETERSON
HOMEOWNERS LLC
BAM PROPERTY MANAGEMENT 2 LLC
MULQUEEN CHARLES H，MULQUEEN MAURINE C
MULQUEEN CHARLES H，MULQUEEN MAURINE C
KR－1 PROPERTIES INC KR－1 PROPERTIES INC
null

LEJONVARN GRANT E
SSM PROPERTIES LLC，MUKHERJEE CAPITALI LLC
ELLIS／CASE PROPERTIES LLC
TRAN HUNG N，TRAN NINA
COLAMAN RE HOLDINGS LLC
BANSAL RAJIV，DINAVAHI SIRISHA
COLAMAN RE HOLDINGS LLC三完

## 







 null
 LITTLETON CO，80120－5408
LITTLETON CO，80120－1649


5400 S DeLAWARE ST
298 W POWERS AVE
241 W POWERS AVE BIdg E
5603 S HURON ST
5628 S FOX CIR
706 W BERRY AVE 555 W BERRY AVE 338 W POWERS AVE 797 W POWERS AVE
445 W BERRY AVE 5599 S ELATI ST 505 W BERRY AVE ヨ $\triangle \forall$ Sy $\exists$ MOd M $86 \varepsilon$
5531 S DELAWARE ST 599 W LITTLETON BLVD
368 W POWERS AVE 5618 S FOX CIR

## 5608 S FOX ST <br> 589 W LITTLETON BLVD 5511 S DELAWARE ST 508 W POWERS AVE 709 W LITTLETON BLVD  <br> 5668 S FOX CIR <br> 498 W POWERS AVE <br> 5622 S DELAWARE ST 5601 S DELAWARE ST 

## 5510 S ELATI ST

| 5645 S LAKEVIEW ST | LITTLETON CO 80120－1615 |
| :---: | :---: |
| null | null |
| 5655 S LAKEVIEW ST | LITTLETON CO 80120－1615 |
| 5655 S DELAWARE ST | LITTLETON CO 80120－1622 |
| 5777 E EVANS AVE STE 1 | DENVER CO 80222－5316 |
| PO BOX 728 | LITTLETON CO 80160－0728 |
| PO BOX 2463 | PARKER CO 80134－1418 |
| 5615 S LAKEVIEW ST | LITTLETON CO 80120－1615 |
| 5654 S HURON ST | LITTLETON CO 80120 |
| 4174 S WASHINGTON ST | ENGLEWOOD CO 80113－4756 |
| 511 E BEXLEY LN | HIGHLANDS RANCH CO 80126－3530 |
| 1678 ROSE PETAL LN | CASTLE ROCK CO 80109－3586 |
| 12520 W CRESTLINE DR | LITTLETON CO 80127－6201 |
| 5652 S DELAWARE ST | LITTLETON CO 80120－1635 |
| 5666 S LAKEVIEW ST | LITTLETON CO 80120－1616 |
| 6462 S CLERMONT CT | LITTLETON CO 80121－3260 |
| 5604 S HURON ST | LITTLETON CO 80120－1447 |
| 10522 SANTA GERTRUDES AVE APT 4 | WHITTIER CA 90603－2740 |
| 5616 S LAKEVIEW ST | LITTLETON CO 80120－1616 |
| 4795 S LAFAYETTE ST | ENGLEWOOD CO 80113－5953 |
| 5605 S LAKEVIEW ST | LITTLETON CO 80120－1615 |
| 5514 S HURON ST | LITTLETON CO 80120－1445 |
| 5675 S LAKEVIEW ST | LITTLETON CO 80120－1615 |
| 346 S SHERMAN ST | DENVER CO 80209－1623 |
| 785 CORONADO DR | SEDALIA CO 80135－8304 |
| 5553 S HURON ST | LITTLETON CO 80120－1444 |
| 4163 E 17TH AVENUE PKWY | DENVER CO 80220－1012 |
| PO BOX 2416 | LITTLETON CO 80161－2416 |
| 18005 SADDLEHORN LN | MANSFIELD TX 76063－5352 |
| 5469 S LAKEVIEW WAY | LITTLETON CO 80120－1617 |
| 5635 S LAKEVIEW ST | LITTLETON CO 80120－1615 |
| 1125 HARRISON ST | DENVER CO 80206－3518 |
| 5606 S LAKEVIEW ST | LITTLETON CO 80120－1616 |
| 5745 S BANNOCK ST | LITTLETON CO 80120－2409 |
| PO BOX 2416 | LITTLETON CO 80161－2416 |
| 5644 S HURON ST | LITTLETON CO 80120－1447 |
| 5564 S HURON ST | LITTLETON CO 80120－1445 |
| 1714 FENTON ST | LAKEWOOD CO 80214－1617 |
| 5574 S HURON ST | LITTLETON CO 80120－1445 |
| 5626 S LAKEVIEW ST | LITTLETON CO 80120－1616 |
| 5563 S HURON ST | LITTLETON CO 80120－1444 |
| 5646 S LAKEVIEW ST | LITTLETON CO 80120－1616 |
| 519 W BERRY CIR UNIT 6B2 | LITTLETON CO 80120－1638 |
| 5617 S FOX ST UNIT B | LITTLETON CO 80120－5419 |
| 261 HOLLYWOOD AVE | ROCHESTER NY 14618－2229 |
| 5475 S LAKEVIEW ST | LITTLETON CO 80120－1639 |
| 5624 S HURON ST | LITTLETON CO 80120－1447 |
| 5496 S LAKEVIEW ST | LITTLETON CO 80120－1614 |
| 5634 S HURON | LITTLETON CO 80120－1447 |
| 444 GILPIN ST | DENVER CO 80218 |
| 510 W BERRY CIR | LITTLETON CO 80120－1638 |
| 5574 S HURON ST | LITTLETON CO 80120－1445 |
| PO BOX 270876 | LITTLETON CO 80127 |
| null | null |
| 5486 S LAKEVIEW ST | LITTLETON CO 80120－1614 |
| 5495 S LAKEVIEW ST | LITTLETON CO 80120 |
| 5476 S LAKEVIEW ST | LITTLETON CO 80120－1614 |

PALAORO JOSEPH T III
null null NAIL OLIN W JR COLAMAN RE HOLDINGS LLC
LENNON JAMES R
SHIRLEY K SHELTON REVOCABLE TRUST
LAWRENCE JULIE A
GUIDRY RONNIE J
BAUER STEVE L
739 WEST LITTLETON BLVD LLC
BARRAND MARK
BLAIR ELIZABETH ANN
JMJC ONE
WILLIAMS BRENT，WELTY SARAH
HAWTHORNE GALE N
MCGUIRE BARBARA
DEWEY MARCELLA S
CISZEK TOM，CISZEK RENEE
WAYWARD PIG LLC
ESCOBEDO ARMANDO
KAHN STEPHANIE A
SILFEE KYLE
MULQUEEN CHARLES H，MULQUEEN MAURINE C
TORONTO JOHN S，LAING BRADLEY R MULQUEEN CHARLES H，MULQUEEN MAURINE C
TORONTO JOHN S，LAING BRADLEY R HERALD ARMANDO，HERALD KIMBERLY KELLER KEVIN J，KELLER JACQUELINE A AVENIR PROPERTIES LLC
ANDRUS FAMILY TRUST
ORTIZ BALTAZAR T，ORTIZ MARIA ELIZONDO－RIOS GOLDBERG JON
LITTLETON CO，80120－1615

府 | 0 |
| :--- |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |
| 0 |












筑 LITLETON CO，80120－5423
 LITLETON CO，80120－1447 LITLETON CO，80120－1614 LITTLETON CO，80120－1447
先


 5625 S LAKEVIEW ST
5553 SHURON ST 5553 S HURON ST 497 W POWERS AVE

 5606 S LAKEVIEW ST 5646 S FOX CIR
5570 S ELATI ST 5644 S HURON ST 5564 S HURON ST
5607 S FOX ST 807 W POWERS AVE 5626 S LAKEVIEW ST 5646 S LAKEVIEW ST 5646 S LAKEVIEW ST
519 W BERRY CIR Ste 6B2 5617 S FOX ST Ste B 5647 S FOX ST Ste A 5475 S LAKEVIEW ST
5624 S HURON ST 5496 S LAKEVIEW ST 5634 S HURON ST
520 W BERRY CIR Ste 4B2 510 W BERRY CIR 5574 S HURON ST
398 W POWERS AVE 5486 S LAKEVIEW ST 5495 S LAKEVIEW ST 5476 S LAKEVIEW ST



| 569 W BERRY CIR Ste 5D2 | LITTLETON CO, 80120-1638 | CARRINGTON KATHERINE M |
| :---: | :---: | :---: |
| 5485 S LAKEVIEW ST | LITTLETON CO, 80120-1639 | BONIG MATTHEW, BONIG MACKENZIE |
| 550 W BERRY CIR Ste 3D3 | LITTLETON CO, 80120-1638 | SNOW MICHELLE |
| 5665 S LAKEVIEW ST | LITTLETON CO, 80120-1615 | HANFORD LANCE S |
| 5497 S FOX ST | LITTLETON CO, 80120-1659 | HIRAD ALI, HIRAD LADAN |
| 559 W BERRY CIR Ste 5B3 | LITTLETON CO, 80120-1638 | DYKEMA SYLVIA |
| 560 W BERRY CIR Ste 3D2 | LITTLETON CO, 80120-1638 | DREW CHRISTOPHER L |
| 530 W BERRY CIR Unit 4B3 | LITTLETON CO, 80120-1638 | HOWARD VIRGINIA, HOWARD JOE |
| 5664 S HURON ST | LITTLETON CO, 80120-1447 | FINGER SHARRON S |
| 579 W BERRY CIR Ste 5D1 | LITTLETON CO, 80120-1638 | AUTHENTIC APPROACH LLC |
| 570 W BERRY CIR Ste 3D1 | LITTLETON CO, 80120-1638 | WILLARD DOUGLAS B |
| 509 W BERRY CIR Ste 6D1 | LITTLETON CO, 80120-1638 | DELANO KATHRYN C \& TRESSLER MICHELLE C |
| 529 W BERRY CIR Ste 6B3 | LITTLETON CO, 80120-1638 | JONES STEPHEN EARL |
| 5496 S HURON ST | LITTLETON CO, 80120-5101 | HURON GARDENS LLC |
| 5647 S FOX ST Ste C | LITTLETON CO, 80120-5423 | JOSHUA P \& LAURA D ST ROMAIN REVOCABLE TRUST |
| 5617 S FOX ST Ste A | LITTLETON CO, 80120-5419 | 5617 FOX LLC |
| 5647 S FOX ST Ste B | LITTLETON CO, 80120-5423 | JOSHUA P \& LAURA D ST ROMAIN REVOCABLE TRUST |

You are invited to a neighborhood meeting to discuss a proposed Use By Special Exception and Major Site Development Plan at 5599 S. Elati St. (at the north-west corner of Powers and Elati)

WHEN: October $8^{\text {th }}, 2019$ from 4:00 P.M. to 6:00 P.M.
WHERE: Littleton United Methodist Church
Grant Fellowship Hall
5894 S. Datura St.
Littleton, CO 80120

South Metro Housing Options intends to develop a 2 story senior housing building on a 1.2 acre site at Powers Avenue and Elati Street. The project will consist of 51 apartment units in 1 structure with 35 proposed parking spaces. A portion of the site lies in the Slaughterhouse Gulch flood plain. A public meeting is required to develop this property as part of the Site Development Plan and Use by Special Exception Flood Plain Permit process .

The neighborhood meeting is required prior to submitting a formal application to the city. The purpose of the meeting is to inform neighboring property owners about the nature of the proposal and to seek comments. Please note this meeting will be an informational meeting on the preliminary development plans and may be altered prior to submittal of the application to the City. There will be additional opportunity to participate in a public hearing after a formal application is submitted to the city at a future date.

If you have any questions, please use the contact information below. We look forward to seeing you there.

South Metro Housing Options
Corey Reitz, Executive Director
Phone Number: 303-794-9608
PLEASE CONTACT ONE OF THE ABOVE INDIVIDUALS IF YOU HAVE ANY QUESTIONS OR NEED ADDITIONAL INFORMATION.

## Notice of Neighborhood Meeting

## Mailing Certificate

I, Corey Reitz, certify that the attached invitation to a neighborhood meeting was mailed on October 1, 2019 to the attached property owner list in accordance with the Littleton City Code.

Signed,


Corey Reitz
Executive Director
South Metro Housing Options




November 27, 2019

## City of Littleton

## Water Resource Division

225 W. Berry Avenue
Littleton, CO 80120

Dear Ms. Roan,
The Powers and Elati Development consists of a 2-story senior housing building on a 1.2 acre site which is, in part, covered by the Slaughterhouse Gulch 100 year floodplain. There are currently six existing single family residential buildings on the site. All the existing buildings are out of the floodplain. The first level footprint of the building is comprised of a residential structure that has been placed out of the floodplain and a covered parking structure that is largely within the floodplain. The $2^{\text {nd }}$ floor of the building is above the first floor residential structure as well as the parking structure and is supported by columns where it overhangs the parking.

The adjacent existing developments consist of single family residences, multi-family apartments, park and healthcare center. In order to floodproof new sewer connections, a ball float check valve will be used to seal the line in the event of flooding. A CMU trash enclosure is to be designed with FEMA recommended floodproofing design guidelines.

All work associated with this project including grading, site improvements and building construction are proposed to be outside of the floodway. On-site waste disposal is to be located outside of the floodplain to prevent damage or contaminant release. The first level finished floor elevations are proposed to be a minimum 1' above the Base Flood Elevation however, the proposed grades within the floodplain are anticipated to match closely to the existing elevations.

It is our expectation that the Powers and Elati Development will have a nominal impact on the Slaughterhouse Gulch 100 year floodplain. We hope this explanation will assist in the administrative review of the floodplain development permit and we look forward to working with you further. Should you have any questions please contact me at (303) 689-1516.

Sincerely,

## Ware Malcomb



Ted Swan
Director, Civil Engineering

```
Carolyn Roan
Department of Public Works - City of Littleton
2255 W. Berry Ave
Littleton, CO }8012
303-795-3748
RE: 5599 S. Elati St. Use By Special Exception
Dear Ms Roan,
```

This letter is in response to the review letter for the 5599 S. Elati St. Use by Special Exception permit review comments dated 8/2/2019. The following outlines the methods used for floodproofing the proposed building in response to Department of Public Works comment 17.B.

The proposed building is a 2 story Type VA wood framed building with an elevated concrete deck with concrete columns over the proposed surface parking area. The foundations are proposed to be drilled piers supporting columns at the parking areas or grade beams at the occupied space. Exterior improvements include asphalt paving with concrete curbs, concrete walks, decorative concrete paved plaza, turf lawn and landscaped beds (Comment 17.B.1.b).

The building will be designed using dry floodproofing techniques. The proposed finish floor of all at grade enclosed space is above the design flood elevation so the extent of dry floodproofing techniques required to floodproof the proposed building is less than if there was enclosed space below the design flood elevation. This project does not include any enclosed areas below the lowest floor (Comment 17.B.1.b.4) and is not proposed to be a manufactured home (Comment 17.B.1.a.2). Dry floodproofing considerations outlined in Table 2 of the FEMA publication Dry Floodproofing: Planning and Design Considerations that are applicable to the proposed design include the following: Backflow preventers, building system locations, design forces, design of a substantially impermeable system \& flood barrier penetrations (Comment 17.B.2.b.2).

- Backflow prevention valves for any piping in the building below the flood protection elevation or that connects to other piping networks that extend below the flood protection elevation will be provided (Comment 17.B.1.b.3)
- All building systems including mechanical, electrical and plumbing components, communication systems and fire suppression equipment will be located above the design flood elevation. (Comment 17.B.2.b.3)
- Design loads on building components located below the design flood elevation will address both lateral hydrostatic and vertical buoyancy forces as well as velocity and debris impact if applicable. Any additional reinforcing or lateral and uplift connections required by these additional design loads will be identified as part of the building design and permitting process. (Comment 17.B.1.a.1)
- All portions of the building located below the design flood elevation will be designed to be "substantially impermeable" through the use of waterproofing membranes and joint sealants. All construction below the design flood elevation is proposed to be concrete (Comment 17.B.1.b.1).
- Any penetrations through building exterior below the design flood elevation will be sealed to resist flood forces and render the flood barrier substantially impermeable (Comment 17.B.1.b.1).

The above described best practice measures will be included in the building design in order to meet the requirements of $10-6-8(B)$. Please feel free to give me a call if you have any questions or need any clarifications.

Sincerely,


## Tom Otteson AIA

Shopworks Architecture

CAUTION: IF THIS SHEET IS NOT 24 " $\times 36$ " IT IS A REDUCED PRINT




(2) $\frac{\text { FLOODWAY CROSS SECTION }}{\text { Scale: }} \mathrm{H}^{1}=20^{\prime} \quad V 1^{11}=4^{\prime}$


