

CITY OF ALBUQUERQUE

Planning Department
David Campbell, Director



Mayor Timothy M. Keller

December 13, 2018

Matt Satches
Bohannon Huston, Inc.
7500 Jefferson St NE
Albuquerque, NM 87109

**RE: Harper Senior Living
Grading and Drainage Plan
Engineer's Stamp Date: 11/16/18
Hydrology File: E20D020B**

Dear Mr. Satches:

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Based upon the information provided in your submittal received 11/16/2018, the Conceptual Grading Plan and Drainage Report **is not** approved for action by the DRB for Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

1. Sheet C-100. Please provide the FIRM Map and flood plain note with effective date.
2. Sheet C-100. Please provide a vicinity map showing the location of the site.
3. Sheet C-100. Please provide the legal description of the property.
4. Sheet C-100. Please provide the benchmark information for the survey contour information provided.
5. Sheet C-100. Please label the 100 year flood elevation line. Also please make this a bolder and different line type to differentiate this with the contour lines.
6. All sheets. Please enlarge the existing index contour line text. This text should be at least 0.10 inches high.
7. Sheet C-100. Near the west driveway and on the south side of the sidewalk, the proposed contours are too steep; please provide a retaining wall along this section of the sidewalk.
8. Sheet C-100. Please relocate the outfall pipe for Pond 2 to the east away from the City's drainage ditch's flow line. Also please provide a headwall at the outfall and provide energy dissipation.

CITY OF ALBUQUERQUE

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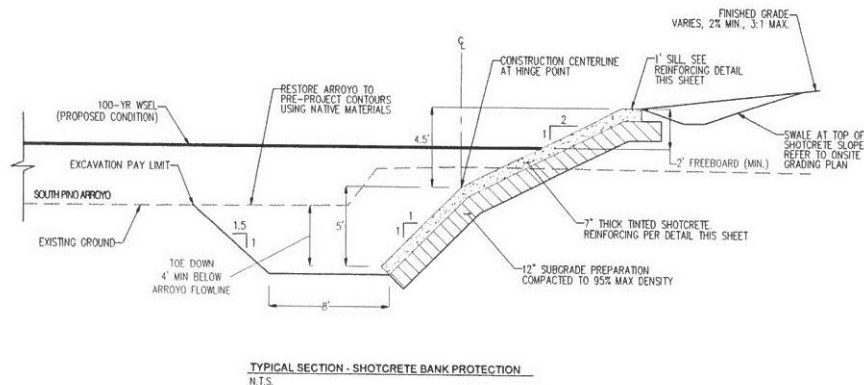
9. Sheet C-100. Please wrap the bank protection around and into the City's drainage ditch past the pond. This will stop any erosion.
10. Sheet C-100. Please concrete line the bottom and sides of Pond 1 per AMAFCA's instructions to prevent the bank protection from erosion.
11. Sheet C-100. Please relocate the outfall pipe for Pond 1 to the east away from the City's drainage ditch's flow line. Also this outfall pipe will be thru the bank protection and provide energy dissipation in the South Pino.
12. Sheet C-100. It appears that half of proposed Basin 1 will not find its way into Pond 1 and instead discharge directly into the South Pino Arroyo via AMAFCA's maintenance drive. Please correct grading to insure that the drainage goes to Pond 1 and not down this maintenance drive.
13. Sheet C-100. Please correct Section B to match the bank protection section that was in the CLOMR.

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14. Sheet C-001 & C-002. Please verify the off-site drainage basins. When reviewing the approved plans and aerial of the adjacent church, it appears that the drainage basins could be reduced and/or the drainage basin discharges directly to Harper Road instead of onto this site. Also please make the off-site drainage basins the same on both Sheets.
15. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth disturbance.
16. Please provide a Drainage Covenant per Chapter 17 of the DPM for both stormwater quality ponds prior to Permanent Release of Occupancy. Please submit this on the 4th floor of Plaza de Sol. A \$25 fee will be required.

CITY OF ALBUQUERQUE

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Mayor Timothy M. Keller

17. Standard review fee of \$300 will be required at the time of resubmittal.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,



Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: _____ Building Permit #: _____ Hydrology File #: _____

DRB#: _____ EPC#: 1007412 Work Order#: _____

Legal Description: _____

City Address: _____

Applicant: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

Other Contact: _____ Contact: _____

Address: _____

Phone#: _____ Fax#: _____ E-mail: _____

TYPE OF DEVELOPMENT: _____ PLAT _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

Check all that Apply:

DEPARTMENT:

_____ HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

_____ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY

TYPE OF SUBMITTAL:

_____ ENGINEER/ARCHITECT CERTIFICATION
_____ PAD CERTIFICATION
_____ CONCEPTUAL G & D PLAN
_____ GRADING PLAN
_____ DRAINAGE REPORT
_____ DRAINAGE MASTER PLAN
_____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
_____ ELEVATION CERTIFICATE
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ STREET LIGHT LAYOUT
_____ OTHER (SPECIFY) _____
_____ PRE-DESIGN MEETING?

_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL

_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_____ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR
_____ FLOODPLAIN DEVELOPMENT PERMIT
_____ OTHER (SPECIFY) _____

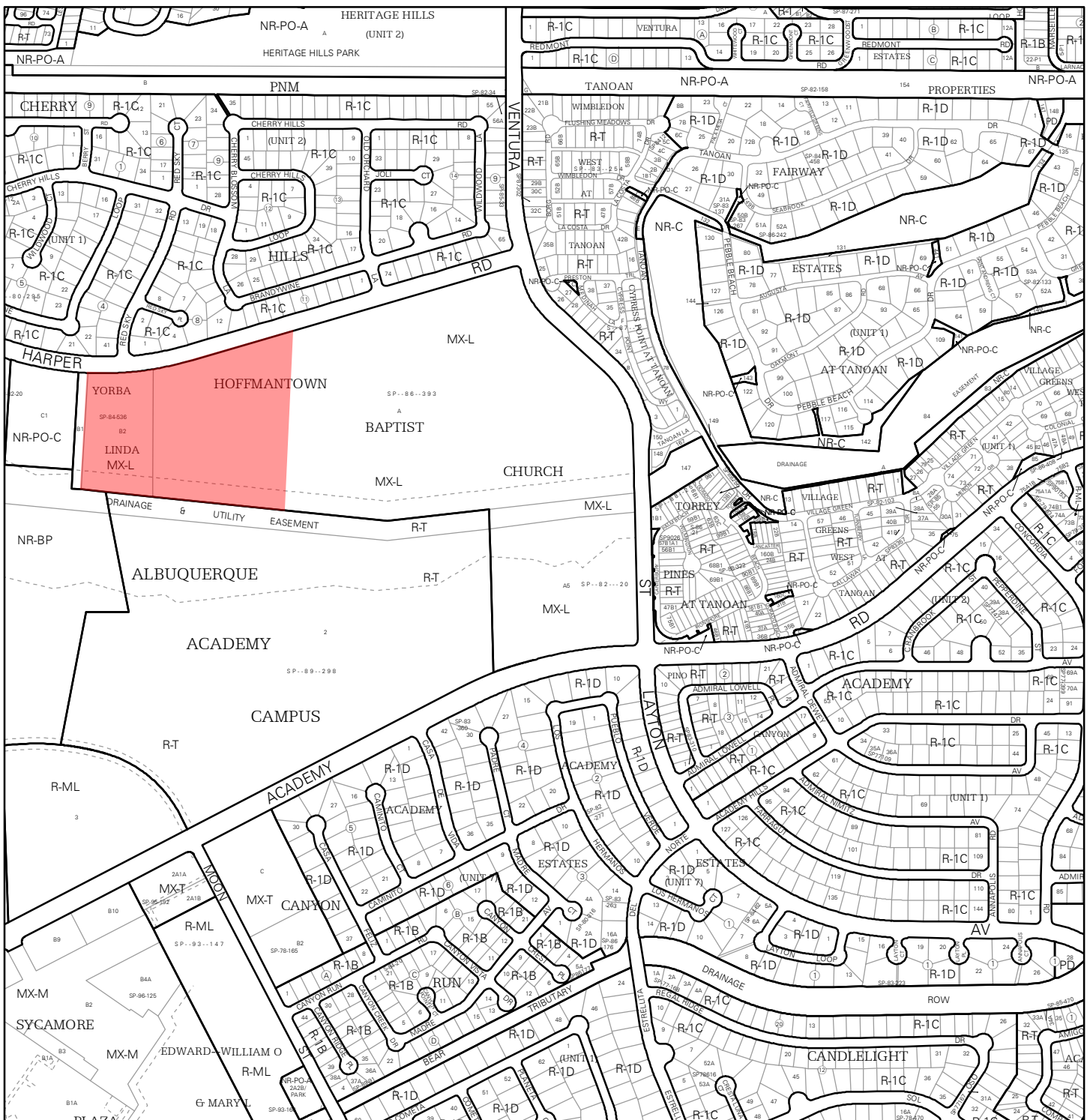
IS THIS A RESUBMITTAL?: _____ Yes _____ No

DATE SUBMITTED: _____ By: _____

COA STAFF:

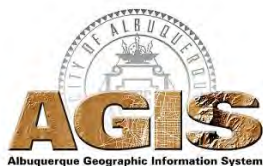
ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

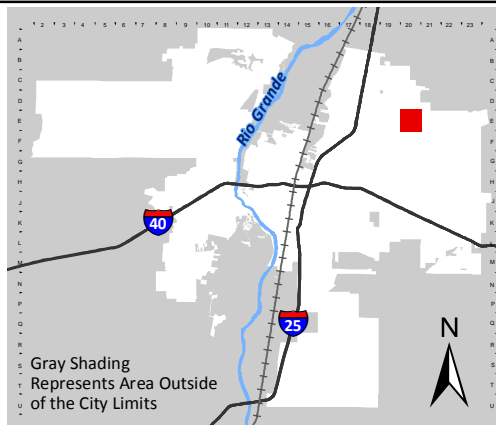


For more details about the Integrated Development Ordinance visit: <http://www.cabq.gov/planning/codes-policies-regulations/integrated-development-ordinance>

IDO Zone Atlas May 2018

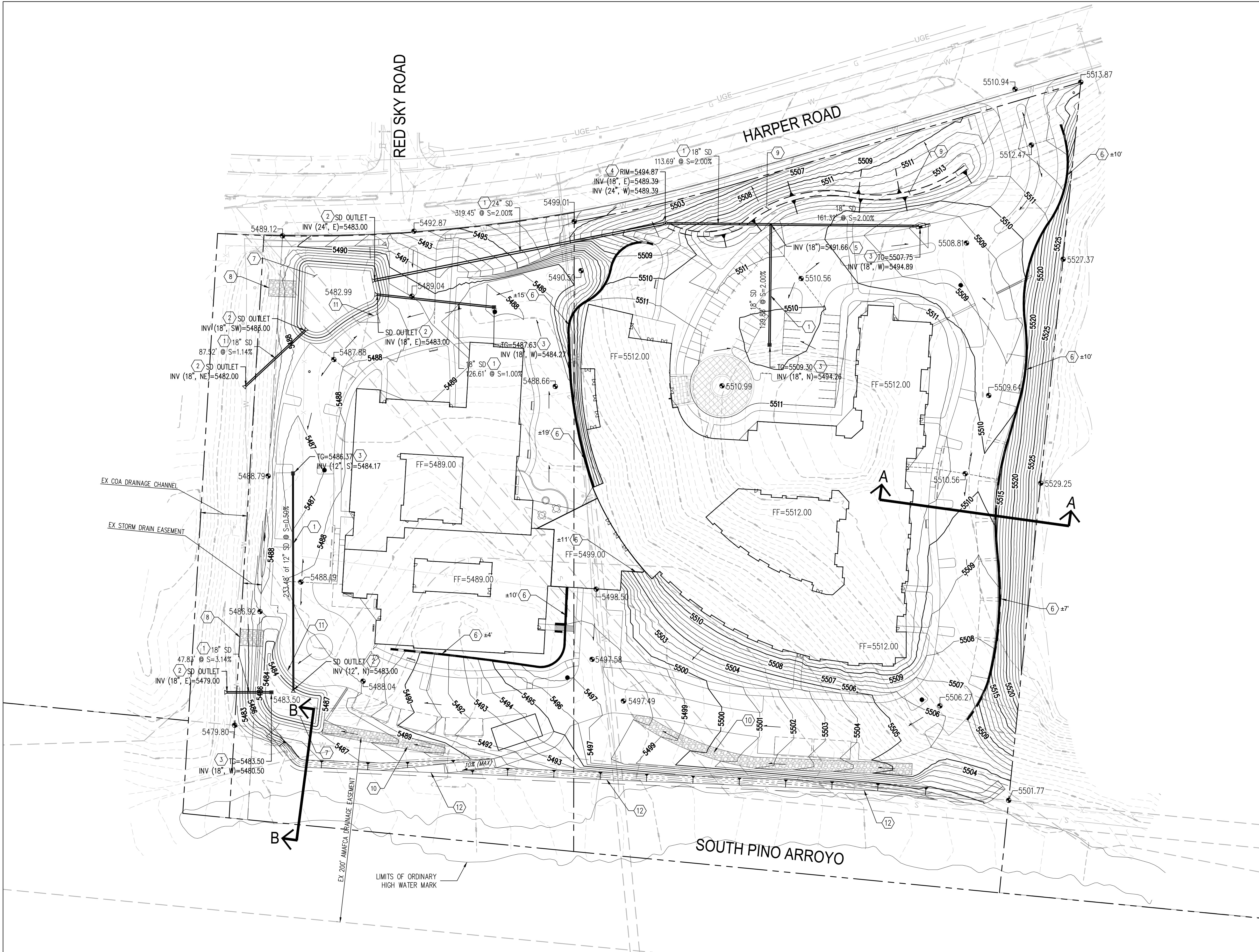


IDO Zoning information as of May 17, 2018
The Zone Districts and Overlay Zones
are established by the
Integrated Development Ordinance (IDO).



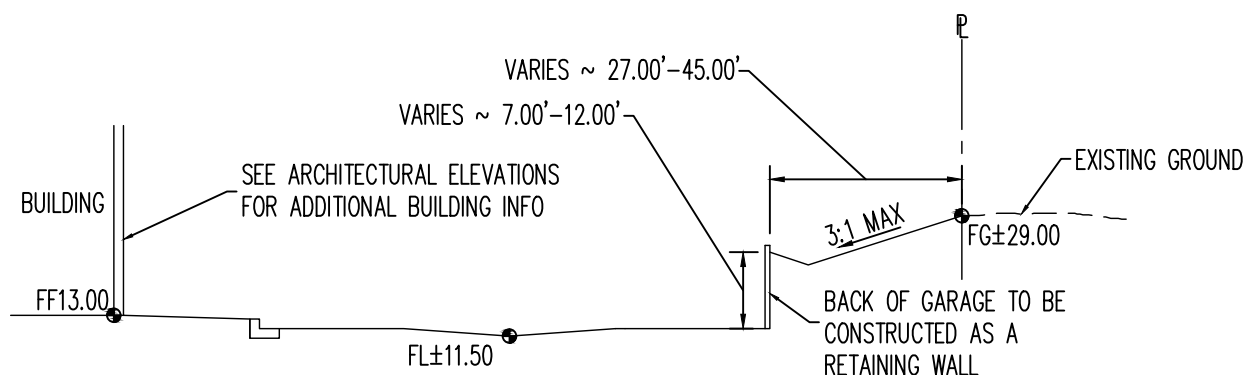
Zone Atlas Page:
E-20-Z

- Easement
 - Escarpment
 - Petroglyph National Monument
 - Areas Outside of City Limits
 - Airport Protection Overlay (APO) Zone
 - Character Protection Overlay (CPO) Zone
 - Historic Protection Overlay (HPO) Zone
 - View Protection Overlay (VPO) Zone
- 0 250 500 1,000 Feet

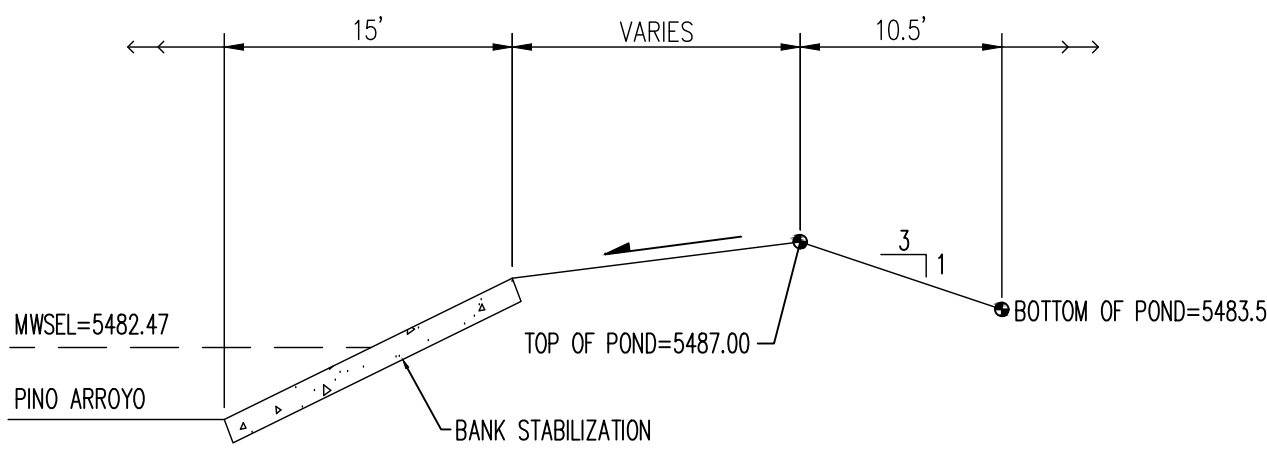


GRADING KEYNOTES

1. INSTALL STORM DRAIN PIPE.
2. INSTALL END SECTION.
3. INSTALL INLET.
4. INSTALL MANHOLE.
5. INSTALL STORM DRAIN FITTING.
6. RETAINING WALL.
7. DETENTION POND.
8. EMERGENCY OVERTFLOW.
9. BERM.
10. SWALE.
11. CURB OPENING AND CONCRETE RUNDOWN
12. BANK STABILIZATION. A LETTER OF MAP REVISION (LOMR) IS NECESSARY TO ELIMINATE THE EXISTING FEMA FLOOD ZONE CURRENTLY ENCROACHING ON TO THE SITE. THIS EFFORT REQUIRES COORDINATION WITH FEMA, AMAFCA, AND THE ARMY CORPS OF ENGINEERS. THE RESULTANT IMPROVEMENTS PROPOSED WILL BE A COLORED SHOTCRETE BANK STABILIZATION CONSTRUCTED AT THE NORTH SIDE OF THE EXISTING ARROYO ALONG THE ENTIRE FRONTAGE OF THE SITE. THIS STABILIZATION WILL BE CONSTRUCTED AT 2:1 SLOPE AND A MINIMUM OF 4-8 FEET IN HEIGHT. COORDINATION DIRECTLY WITH THE REVIEWING ENTITIES AND THE EXACT LOCATION IS CURRENTLY BEING REVIEWED AND DETERMINED.



SECTION A



SECTION B



NOT FOR CONSTRUCTION

GRADING LEGEND

---	PROPERTY LINE	---	PROPOSED CURB & GUTTER
---	PROJECT LIMITS OF GRADING	---	DIRECTION OF FLOW
---	EXISTING INDEX CONTOUR	---	WATER BLOCK/GRADE BREAK
---	EXISTING INTERMEDIATE CONTOUR	---	PROPOSED STORM DRAIN LINE
⊕ 5025.25	EXISTING GROUND SPOT ELEVATION	⊙	PROPOSED STORM DRAIN MANHOLE
---	PROPOSED INDEX CONTOUR	⊙	PROPOSED STORM DRAIN INLETS
---	PROPOSED INTERMEDIATE CONTOUR	---	PROPOSED RETAINING WALL
---	PROPOSED FLOW LINE	---	EASEMENT
⊕ 26.75	PROPOSED FINISHED GRADE SPOT ELEVATION		
	TC=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK, TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW		

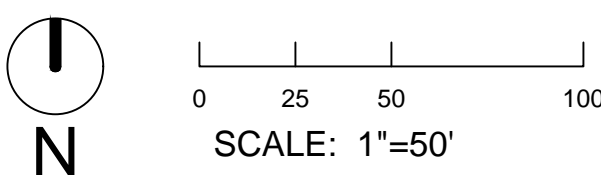


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500 Stephens Avenue
Solana Beach, CA 92075

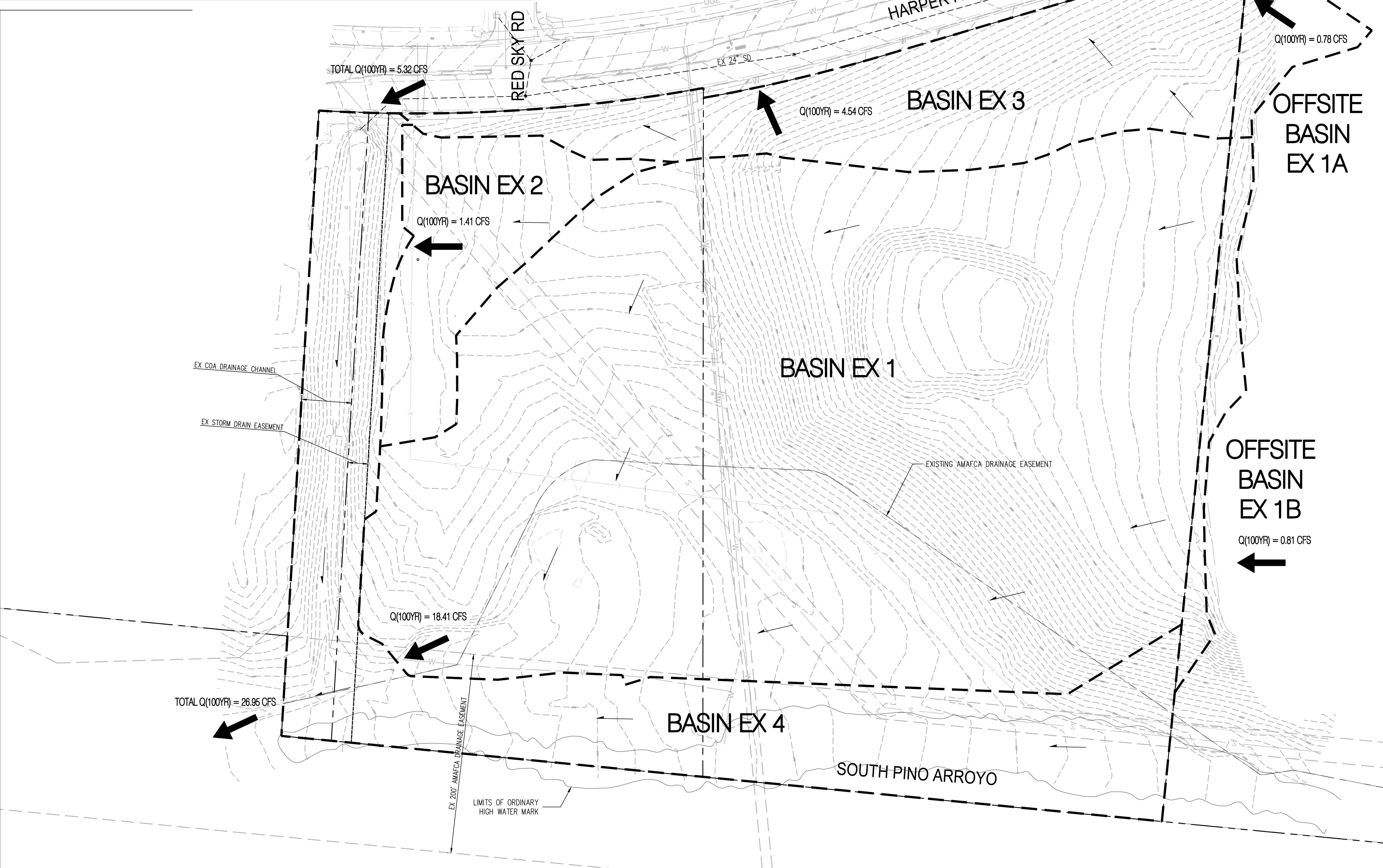
HARPER ROAD SENIOR LIVING
ALBUQUERQUE, NM # 2017-0235



CONCEPTUAL GRADING PLAN
NOVEMBER 16, 2018

C-100

Harper Road Senior Living											
Existing Developed Conditions Basin Data Table											
3											
Basin ID	Area [SQ. FT.]	Area [AC.]	Land Treatment Percentages				Q(100yr)	V(100yr)	V _{100yr-6h}	V _{100yr-24h}	Weighted Curve #
			A	B	C	D	[CFS]	[inches]	[CF]	[CF]	
CURRENT ONSITE BASINS											
EX 1	334631	9.36	65.0%	0.0%	35.0%	0.0%	18.41	5.28	22956	28656	83
EX 2	37715	0.97	100.0%	0.0%	0.0%	0.0%	1.41	5.68	2074	2074	77
EX 3	79743	1.93	35.0%	0.0%	65.0%	0.0%	4.54	1.07	7107	7157	83
EX 4	135422	3.11	70.0%	0.0%	30.0%	0.0%	6.32	5.85	3581	5561	83
OFF 1A	11453	0.26	0.0%	0.0%	100.0%	0.0%	0.78	1.23	1231	1231	88
OFF 1B	11856	0.27	0.0%	0.0%	100.0%	0.0%	0.81	1.23	1275	1275	88
TOTAL	670820	15.40	-	-	-	-	32.27	-	50224	50224	-



EXISTING DRAINAGE NARRATIVE

INTRODUCTION:

THE PURPOSE OF THIS SUBMITTAL IS TO PROVIDE AN EXISTING DRAINAGE MANAGEMENT PLAN FOR THE HARPER ROAD SENIOR LIVING DEVELOPMENT AND REQUEST DRB SITE PLAN FOR BUILDING PERMIT APPROVAL.

THE SITE IS LOCATED ON THE SOUTH SIDE OF HARPER ROAD, SOUTHWEST OF THE EXISTING HOFFMANTOWN CHURCH. IT IS CURRENTLY UNDEVELOPED. THE SITE HAS A SIGNIFICANT SLOPE FROM EAST TO WEST AND ULTIMATELY DISCHARGES TO THE EXISTING PINO ARROYO TO THE SOUTH.

THE SITE IS PARTIALLY LOCATED WITHIN A FEMA DESIGNATED FLOODZONE AO (FEMA FIRM #35001C0143G). THIS FLOODZONE LIES WITHIN A TEMPORARY AMAFCA DRAINAGE EASEMENT ONSITE. THE ARROYO WILL BE ALTERED WITH THIS PROJECT TO MOVE THE FEMA FLOODZONE TO THE SOUTH WHERE IT WILL LIE WITHIN THE EXISTING 200' AMAFCA DRAINAGE EASEMENT.

METHODOLOGY:

THE CITY IS IN THE PROCESS OF UPDATING THE DPM. ALTHOUGH THE DPM UPDATE HAS NOT BEEN OFFICIALLY ADOPTED, THE ANALYSIS METHODOLOGY IS PER THE PROPOSED UPDATE.

THE METHODOLOGY SELECTED TO COMPUTE RUNOFF VOLUME IS BASED ON THE SCS UNIT HYDROGRAPH. RAINFALL VALUES WERE BASED ON THE PROPOSED VALUES FROM THE DPM. THE SITE WAS ANALYZED FOR THE 100 YEAR 6 HOUR STORM EVENT USING THE US ARMY CORPS OF ENGINEERS HYDROLOGIC ENGINEERING CENTER'S HYDROLOGIC MODELING SYSTEM (HEC-HMS, VERSION 4.2). SURFACE CHARACTERISTICS AFFECTING INITIAL ABSTRACTION AND INFILTRATION RATES ARE PRESENTED BY CURVE NUMBERS. CURVE NUMBERS ARE BASED ON LAND TREATMENT AREAS AS SPECIFIED IN THE DPM UPDATE.

EXISTING CONDITIONS:

BASED ON THE EXISTING TOPOGRAPHY, THE EXISTING SITE WAS BROKEN INTO FOUR ONSITE BASINS AND TWO OFFSITE BASINS.

EXISTING BASIN 1 IS APPROXIMATELY 9.06 ACRES AND CONSISTS OF NATURAL DESERT SHRUBS AND STEEP SLOPES (GREATER THAN 20%). OFFSITE BASIN 1B JOINS EXISTING BASIN 1 AND DISCHARGES A TOTAL OF 19.22 CFS TO THE SOUTHWEST CORNER OF THE SITE.

EXISTING BASIN 2 IS APPROXIMATELY 0.87 ACRES AND CONSISTS OF ALL NATURAL DESERT SHRUBS. THIS BASIN DISCHARGES 1.41 CFS TO THE WEST AND INTO AN EXISTING CITY OF ALBUQUERQUE DRAINAGE SWALE LOCATED WITHIN AN EXISTING EASEMENT ON THE WEST EDGE OF THE PROPERTY.

EXISTING BASIN 3 IS APPROXIMATELY 1.83 ACRES AND CONSISTS NATURAL DESERT SHRUBS AND STEEP SLOPES (GREATER THAN 20%). OFFSITE BASIN 1A JOINS EXISTING BASIN 3 AND DISCHARGES 5.32 CFS TO THE NORTH INTO HARPER ROAD RIGHT OF WAY. THIS RUNOFF PROCEEDS TO THE WEST WHERE IT ENTERS INLETS THAT DISCHARGE INTO THE SAME DRAINAGE SWALE LOCATED WITHIN AN EXISTING EASEMENT ON THE WEST EDGE OF THE PROPERTY.

EXISTING BASIN 4 IS APPROXIMATELY 3.11 ACRES AND CONSISTS NATURAL DESERT SHRUBS AND STEEP SLOPES (GREATER THAN 20%). THIS BASIN IS MAINLY THE EXISTING DRAINAGE SWALE LOCATED WITHIN THE DRAINAGE EASEMENT AND SOME AREA AT THE SOUTH END OF THE PROPERTY WITHIN PINO ARROYO. THIS BASIN DRAINS 6.32 CFS TO THE SOUTH AND WEST AND THEN DISCHARGES TO THE SOUTHWEST CORNER OF THE PROPERTY.

THE TOTAL FLOW LEAVING THE SOUTHWEST CORNER IN EXISTING CONDITIONS IS 26.95 CFS.

SEE BASIN DATA TABLE (THIS SHEET) FOR MORE INFORMATION.



NOT FOR CONSTRUCTION

GRADING LEGEND

- | | | | |
|-----------|--|--------|------------------------------|
| --- | PROPERTY LINE | ===== | PROPOSED CURB & GUTTER |
| - - - - | PROJECT LIMITS OF GRADING | S=2.0% | DIRECTION OF FLOW |
| - - - - | EXISTING INDEX CONTOUR | --- | WATER BLOCK/GRADE BREAK |
| - - - - | EXISTING INTERMEDIATE CONTOUR | SD | PROPOSED STORM DRAIN LINE |
| ⊕ 5026.25 | EXISTING GROUND SPOT ELEVATION | ⊙ | PROPOSED STORM DRAIN MANHOLE |
| --- | PROPOSED INDEX CONTOUR | ⊕ | PROPOSED STORM DRAIN INLETS |
| --- | PROPOSED INTERMEDIATE CONTOUR | --- | PROPOSED RETAINING WALL |
| --- | PROPOSED FLOW LINE | --- | EASEMENT |
| ⊕ 26.75 | PROPOSED FINISHED GRADE SPOT ELEVATION | | |
| | TG=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK, TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW | | |

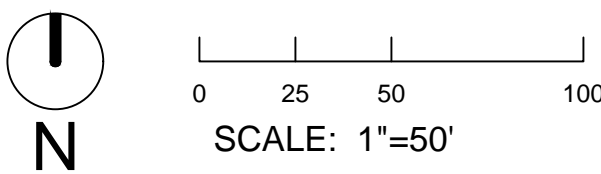


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HARPER ROAD SENIOR LIVING
ALBUQUERQUE, NM # 2017-0235

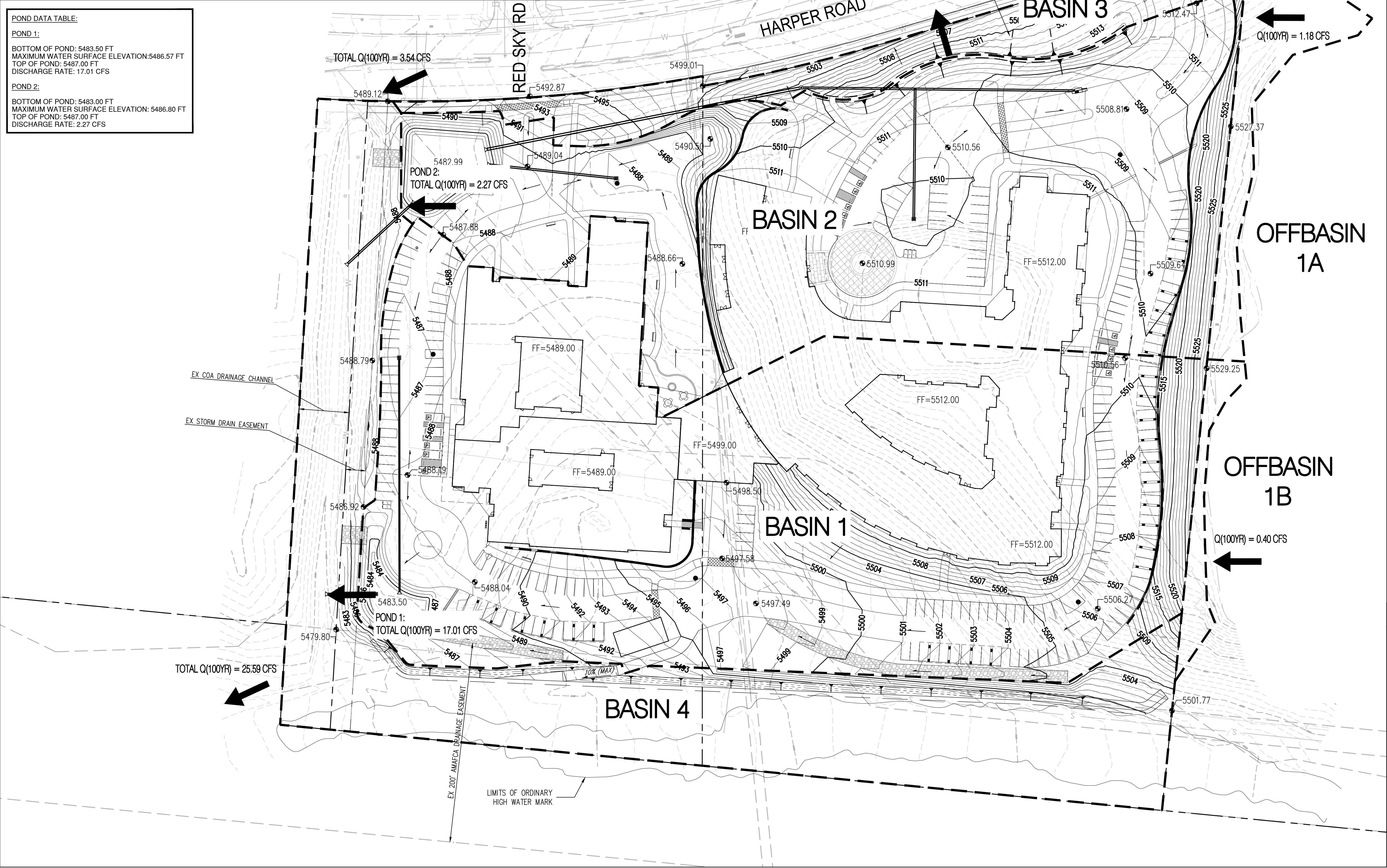


EXISTING DMP
NOVEMBER 16, 2018

C-001

Harper Road Senior Living												
Proposed Developed Conditions Basin Data Table												
3												
Basin ID	Area (SQ. FT.)	Area (AC.)	Land Treatment Percentages				Q(100Yr)	V _{100Yr}	V _{100Yr-6"}	V _{100Yr-24"}	Weighted Curve #	FIRST FLUSH (CF)
			A	B	C	D	(CFS)	(Inches)	(CF)	(CF)		
CURRENT ONSITE BASINS												
31	27993	0.62	0.0%	0.0%	25.0%	75.0%	29.88	2.09	4575"	57433	95	5542
32	23532	0.54	0.0%	0.0%	35.0%	65.0%	23.35	1.39	33147	16573	94	3533
33	32215	0.74	0.0%	0.0%	15.0%	85.0%	3.54	2.25	5595	7246	95	775
34	13532	0.31	75.0%	0.0%	30.0%	70.0%	6.97	5.65	5574	8574	81	C
OFF 1A	17388	0.40	0.0%	0.0%	100.0%	0.0%	1.18	1.29	1687	1957	95	C
OFF 1B	5641	0.14	0.0%	0.0%	100.0%	0.0%	0.40	1.29	539	623	95	C
TOTAL	670819	15.40	-	-	-	-	61.36	-	99833	115198	-	19405

POND DATA TABLE:	
POND 1:	
BOTTOM OF POND: 5483.50 FT	
MAXIMUM WATER SURFACE ELEVATION: 5486.57 FT	
TOP OF POND: 5487.00 FT	
DISCHARGE RATE: 17.01 CFS	
POND 2:	
BOTTOM OF POND: 5483.00 FT	
MAXIMUM WATER SURFACE ELEVATION: 5486.80 FT	
TOP OF POND: 5487.00 FT	
DISCHARGE RATE: 2.27 CFS	



PROPOSED DRAINAGE NARRATIVE

PROPOSED CONDITIONS:

UNDER PROPOSED CONDITIONS, THE ONSITE BASINS WERE MODIFIED SO THAT BASIN 1 DRAINS TO DETENTION POND 1 LOCATED AT THE SOUTHWEST CORNER OF THE SITE AND THAT BASIN 2 DRAINS TO DETENTION POND 2 LOCATED AT THE NORTHWEST CORNER.

THE FINISHED FLOOR ELEVATIONS WERE ESTABLISHED IN AN EFFORT TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING AND REMAIN HIGHER THAN THE ADJACENT ARROYO WATER SURFACE ELEVATION. THE PROPOSED SITE GRADING WILL CONTINUE TO GENERALLY SLOPE FROM EAST TO WEST. THE EXISTING PINO ARROYO IS DESIGNED FOR ULTIMATE DEVELOPED CONDITIONS, HOWEVER TO BE CONSERVATIVE, THE DISCHARGE FROM THE PROPOSED CONDITIONS IS ANTICIPATED TO NOT EXCEED EXISTING CONDITIONS BY UTILIZING TWO ONSITE DETENTION PONDS WITH RESTRICTED OUTFLOWS.

LANDSCAPED AREAS THROUGHOUT THE SITE WILL BE DEPRESSED IN AN EFFORT TO ADDRESS THE COA FIRST FLUSH REQUIREMENTS. ANY VOLUME NOT RETAINED WILL BE PAID FOR CASH INLIEU. THERE IS SIGNIFICANT GRADE CHANGE THROUGHOUT THE SITE WHICH WILL REQUIRE RETAINING WALLS AND 3:1 SLOPES. THE FINISHED FLOOR ELEVATIONS OF THE BUILDINGS WILL WORK WITH THE EXISTING TOPOGRAPHY TO HELP WITH EARTHWORK.

BASED ON THE PROPOSED GRADING PLAN, THE PROPOSED SITE WAS BROKEN INTO FOUR ONSITE BASINS AND TWO OFFSITE BASINS.

BASIN 1 IS APPROXIMATELY 6.42 ACRES AND CONSISTS OF MOSTLY IMPERVIOUS PAVEMENT/ROOF AREAS AND SOME LANDSCAPE AREAS. THIS BASIN JOINS OFFSITE BASIN 1B AND DRAINS 29.98 CFS INTO POND 1.

BASIN 2 IS APPROXIMATELY 4.60 ACRES AND CONSISTS OF MOSTLY IMPERVIOUS PAVEMENT/ROOF AREAS AND SOME LANDSCAPE AREAS. THIS BASIN JOINS OFFSITE BASIN 1A AND DRAINS 21.53 CFS TO THE WEST INTO POND 2.

BASIN 3 IS APPROXIMATELY 0.74 ACRES AND CONSISTS OF STEEP LANDSCAPE AREAS. THIS BASIN DRAINS TO THE NORTH OFF THE PROPERTY AND RELEASES 3.54 CFS INTO THE HARPER ROAD RIGHT OF WAY.

BASIN 4 IS APPROXIMATELY 3.11 ACRES AND CONSISTS OF LANDSCAPE AREA AND STEEP SLOPES. THIS BASIN IS MAINLY THE EXISTING SWALE LOCATED WITHIN THE EASEMENT ON THE WEST SIDE OF THE PROPERTY AND SOME AREA AT THE SOUTH END OF THE PROPERTY. THIS BASIN DRAINS 6.31 CFS TO THE SOUTH AND WEST AND THEN DISCHARGES TO THE SOUTHWEST CORNER OF THE PROPERTY.

THE TOTAL FLOW DEVELOPED FROM BASIN 1 AND 1B FLOWS TO DETENTION POND 1 AT A PEAK INFLOW RATE OF 29.98 CFS. THE MAXIMUM WATER SURFACE ELEVATION IS 5486.57 FT. THE PROPOSED POND HAS A VOLUME OF APPROXIMATELY 0.23 AC-FT. THE TOP OF POND IS AT AN ELEVATION OF 5487.00 FT. THIS PROVIDES APPROXIMATELY 0.50 FT OF FREEBOARD DURING THE 100 YEAR EVENT. THE PEAK DISCHARGE FROM POND 1 IS 17.01 CFS.

THE TOTAL FLOW DEVELOPED FROM BASIN 2 AND 1A FLOWS TO DETENTION POND 2 AT A PEAK INFLOW RATE OF 21.53 CFS. THE MAXIMUM WATER SURFACE ELEVATION IS 5486.80 FT. THE PROPOSED POND HAS A VOLUME OF APPROXIMATELY 0.50 AC-FT. THE PEAK DISCHARGE FROM POND 2 IS 2.27 CFS.

A LETTER OF MAP REVISION (LOMR) IS NECESSARY TO ELIMINATE THE EXISTING FEMA FLOOD ZONE CURRENTLY ENCRANCHING ON TO THE SITE. THIS EFFORT REQUIRES COORDINATION WITH FEMA, AMAFCA, AND THE ARMY CORPS OF ENGINEERS. THE RESULTANT IMPROVEMENTS PROPOSED WILL BE A COLORED SHOTCRETE BANK STABILIZATION CONSTRUCTED AT THE NORTH SIDE OF THE EXISTING ARROYO ALONG THE ENTIRE FRONTAGE OF THE SITE. THIS STABILIZATION WILL BE CONSTRUCTED AT 2:1 SLOPE AND A MINIMUM OF 4-5 FEET IN HEIGHT. COORDINATION DIRECTLY WITH THE REVIEWING ENTITIES AND THE EXACT LOCATION IS CURRENTLY BEING REVIEWED AND DETERMINED.

CONCLUSION:

WITH THE PROPOSED POND VOLUME AND PROPOSED CONTROLLED OUTLETS, THE TOTAL PEAK DISCHARGE FROM THE SITE IS LESS THAN THE EXISTING CONDITIONS. THEREFORE WE ARE IN CONFORMANCE WITH THE CITY OF ALBUQUERQUE HYDROLOGY REQUIREMENTS. WITH THIS SUBMITTAL WE ARE REQUESTING CITY OF ALBUQUERQUE HYDROLOGY SITE PLAN FOR BUILDING PERMIT APPROVAL.

NOT FOR CONSTRUCTION			
GRADING LEGEND			
---	PROPERTY LINE	---	PROPOSED CURB & CUTTER
---	PROJECT LIMITS OF GRADING	---	DIRECTION OF FLOW
---	EXISTING INDEX CONTOUR	---	WATER BLOCK/GRADE BREAK
---	EXISTING INTERMEDIATE CONTOUR	---	PROPOSED STORM DRAIN LINE
---	EXISTING GROUND SPOT ELEVATION	---	PROPOSED STORM DRAIN MANHOLE
---	PROPOSED INDEX CONTOUR	---	PROPOSED STORM DRAIN INLETS
---	PROPOSED INTERMEDIATE CONTOUR	---	PROPOSED RETAINING WALL
---	PROPOSED FLOW LINE	---	EASEMENT
---	PROPOSED FINISHED GRADE SPOT ELEVATION	---	PROPOSED WATER HARVESTING AREAS (FIRST FLUSH REQUIREMENT)
---	TO=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK, TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW		

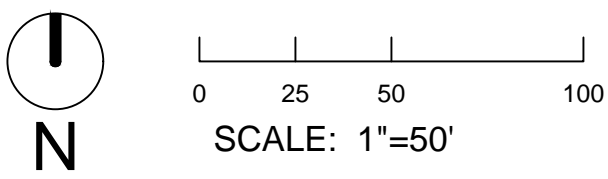


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HARPER ROAD SENIOR LIVING
ALBUQUERQUE, NM # 2017-0235



PROPOSED DMP
NOVEMBER 16, 2018

C-002