CITY OF ALBUQUERQUE



December 20, 2017

Mike Balaskovits, PE Bohannan Huston, Inc. 7500 Jefferson St NE Albuquerque, NM 87109

RE: El Vado / Casa Grande Grading and Drainage Plan Revision 1 Engineer's Stamp Date: 11/7/16 Revision 1 Stamp Date: 12/14/17 Hydrology File: J12D028

Dear Mr. Balaskovits:

Based on the information provided in the submittal received on 12/15/17 the revised Grading and Drainage Plan is approved for Building Permit.

PO Box 1293 Per the conditions of approval, letter dated: 12/7/16, the following will be required prior to requesting Hydrology approval for Certificate of Occupancy:

1. The Certification will need to include a clear distinction between the improvements to be completed through Building Permit approval and those that are covered by the Work Order set, as discussed during the last DRC Meeting.

NM 87103 Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required. If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

www.cabq.gov

Albuquerque

Sincerely,

Dana M. Peterson Senior Engineer, Planning Dept. Development Review Services



City of Albuquerque

Planning Department Development & Building Services Division DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: CASA GRANDE AND EL VADO DEV	ELOPMENT	Building Permit #:	City Drainage #: J12/D028			
DRB#:	EPC#:		Work Order#:			
Legal Description: Tract "A" Traction City Addition						
City Address: 2400 & 2424 Central Ave. SW AND						
Engineering Firm: Bohannan Huston, Inc			Contact: Mike Balaskovits or Matt Satches			
Address: 7500 Jefferson St. NE 87109						
Phone#: 505-823-1000	Fax#: 505-798-7988		E-mail: mbalaskovits@bhinc.com			
Owner:			Contact:			
Address:						
Phone#:	Fax#:		E-mail:			
Architect: Dekker / Perich / Sabatini			Contact: Miriam Hicks			
Address: 7601 Jefferson St NE, Suite 100 87109						
Phone#: 505-761-9700	Fax#: 505-761-4222		E-mail: miriamh@dpsdesign.org			
Other Contact:			Contact:			
Address:						
Phone#:	Fax#:		E-mail:			
DEPARTMENT: HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	DL	CHECK TYPE OF X BUILDING P CERTIFICAT	APPROVAL/ACCEPTANCE SOUGHT: ERMIT APPROVAL E OF OCCUPANCY			
TYPE OF SUBMITTAL:						
ENGINEER/ ARCHITECT CERTIFICATIO	DN	PRELIMINARY PLAT APPROVAL				
		SITE PLAN I	TOR SUB D'APPROVAL			
CONCEPTUAL G & D PLAN		FINAL PLAT APPROVAL				
X GRADING PLAN		SIA/ RELEASE OF FINANCIAL GUARANTEE				
DRAINAGE MASTER PLAN		FOUNDATION PERMIT APPROVAL				
DRAINAGE REPORT		GRADING PERMIT APPROVAL				
CLOMR/LOMR		SO-19 APPROVAL				
		PAVING PE	RMIT APPROVAL			
TRAFFIC CIRCULATION LAYOUT (TC	L)	GRADING/ PAD CERTIFICATION				
TRAFFIC IMPACT STUDY (TIS)		WORK ORDER APPROVAL				
EROSION & SEDIMENT CONTROL PLA	AN (ESC)	CLOMR/LON	1R			
X OTHER (SPECIEV) Drainage Management	Plan					
OTHER (SPECIFT)		PRE-DESIGN	MEETING			
Y		OTHER (SPE	CIFY)			
IS THIS A RESUBMITTAL?: Yes X	No					
DATE SUBMITTED: 12-15-2017	By: Michael Ba	alaskovits, PE				

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____



Plotted by: MBALASKOVITS

EL VADO / CASA GRANDE											
Existing Conditions Basin Data Table											
Th	is table is bas	ed on the [OPM Section	22.2, Zone:	2						
Basin	Area	Area	Land	d Treatmei	nt Percent	ages	Q(100yr)	Q(100yr)	V(100yr)	V(100yr-6hr)	V(100yr-24hr)
ID	(SQ. FT)	(AC.)	A	B	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)
El Vado	57530	1.32	0.0%	13.0%	13.0%	74.0%	4.18	5.52	1.82	8711	10131
Casa Grande	64262	1.48	0.0%	4.0%	4.0%	92.0%	4.54	6.70	2.03	10854	12825
TOTAL	121792	2.8						12.22		19565	22955

DRAINAGE NARRATIVE

SITE INTRODUCTION:

THE SITE IS LOCATED AT THE INTERSECTION OF CENTRAL AVE AND NEW YORK AVE, EAST OF THE ALBUQUERQUE AQUARIUM AND BIOPARK. THE APPROXIMATELY 2.8 ACRES OF THE ENTIRE DEVELOPMENT IS CURRENTLY FULLY DEVELOPED AND CONSISTS OF TWO COMPONENTS; THE EXISTING EL VADO SITE (SOUTHERN 1.32 ACRES) AND THE NEW CASA GRANDE TRACTS (NORTHERN 1.47 ACRES).

PER FEMA MAP PANEL #35001C0331H (THIS SHEET), THE SITE IS LOCATED WITHIN A FEMA DESIGNATED FLOOD ZONE "A". THIS MEANS THAT THE SITE IS SUBJECT TO FLOODS ON AN AVERAGE OF 1 FOOT OR LESS.

THE TWO PROJECTS (EL VADO AND CASA GRANDE) WILL BE PERMITTED SEPARATELY HOWEVER THIS DRAINAGE MANAGEMENT PLAN WILL COVER THE DRAINAGE SCHEME FOR BOTH DEVELOPMENTS. STAMPED AND SIGNED GRADING AND DRAINAGE PLANS FOR BOTH PROJECTS WILL BE INCLUDED WITH THIS SUBMITTAL.

METHODOLOGY:

THE SITE IS LOCATED IN THE CITY OF ALBUQUERQUE, THEREFORE, THE DEVELOPMENT PROCESS MANUAL SECTION 22.2 WAS USED TO ANALYZE THE SITE'S PROPOSED DRAINAGE. PRECIPITATION ZONE 2 WAS USED DUE TO THE SITE LYING EAST OF THE RIO GRANDE AND WEST OF SAN MATEO, PER SECTION 22.2. THE ONSITE STORM DRAINS WERE SIZED BASED OFF OF MANNING'S EQUATION. THE ONSITE INLETS WERE SIZED WITH THE INLETS IN SUMP CONDITION AND USING MANUFACTURER PROVIDED NOMOGRAPHS.

EXISTING CONDITIONS:

THE CURRENT CONDITIONS OF THE SITE ARE EXTREMELY FLAT. BASED ON THE EXISTING SURVEY THERE ARE A NUMBER OF EXISTING INLETS OCATED AT THE INTERSECTION OF CENTRAL AND NEW YORK AVE AS WELL AS TWO ADDITIONAL CURB INLETS LOCATED WITHIN NEW YORK AVE EAST OF THE SITE. THESE INLETS TIE TO AN EXISTING 18" RCP STORM PRAIN THAT RUNS DOWN NEW YORK AVE AND DRAINS TO THE EAST. BASED ON AS-BUILT INFORMATION, CITY OF ALBUQUERQUE SYSTEM MAPS ND THE SITE'S DESIGN SURVEY. THE SITE APPEARS TO DRAIN ENTIRELY NTO THIS EXISTING PIPE BY EITHER THE EXISTING INLETS AT CENTRAL OR THE INLETS FURTHER DOWN STREAM WITHIN NEW YORK AVE. DURING ARGER STORM EVENTS, DRAINAGE APPEARS TO BE CONVEYED IN NEW YORK AVE. VIA SURFACE FLOW UNTIL IT HAS AN OPPORTUNITY TO DRAIN INTO FURTHER DOWNSTREAM INLETS.

PROPOSED CONDITIONS:

BOTH THE EL VADO SITE AND CASA GRANDE SITE ARE ALLOWED TO DISCHARGE ENTIRELY TO PUBLIC INFRASTRUCTURE.

THE DEVELOPED FLOWS FOR BOTH THE EL VADO SITE AND THE CASA GRANDE SITE WILL CONTINUE TO DRAIN TO THE EXISTING 18" STORM DRAIN. A PRELIMINARY GEOTECHNICAL REPORT WAS COMPLETED FOR THE SITE WHICH DESCRIBED VERY LOOSE TO LOOSE SOILS PRESENT. THIS COMBINED WITH SHALLOW GROUNDWATER, AND THE PROXIMITY TO EXISTING EARTHQUAKE FAULTS ZONES, THE SITE HAS POTENTIAL FOR LIQUEFACTION, LATERAL SPREADING AND SEISMIC SETTLEMENT, WHICH WOULD PREVENT ONSITE PONDING. SHALLOW WATER HARVESTING AREAS (LESS THEN 6") WILL BE PLACED THROUGHOUT THE LANDSCAPING AREAS AND MEDIAN ISLANDS IN AN ATTEMPT TO MEET THE "FIRST FLUSH" REQUIREMENTS BY THE CITY; HOWEVER DUE TO THE SOIL CHARACTERSITICS NOTED ABOVE THE REQUIRED FIRST FLUSH VOLUME WILL NOT BE MET. AS AN ALTERNATIVE TO THIS REQUIREMENT, WATER QUALITY INLETS/MANHOLES WILL BE INSTALLED ONSITE STETEGICALLY PLACED UPSTREAM OF THE POINT OF CONNECTION TO THE CITY SYSTEM

BASED ON THE PROPOSED SITE GRADING, THE SITE WILL BE DIVIDED INTO 13 ONSITE BASINS. BASIN 4 CONSISTS OF MOSTLY LAND WITHIN THE RIGHT OF WAY, AS SUCH WAS DESIGNED TO SURFACE FLOW AND DISCHARGE DIRECTLY TO CENTRAL AVE TO THE WEST.

BASIN 1 CONTRIBUTES TO A SMALL POND ALONG THE EASTERN PORTION OF THE CASA GRANDE PROPERTY, THIS THEN ULTIMATELY OUTFALLS INTO THE ADJACENT HAMMERHEAD ROAD. BASIN 2 AND 3 DISCHARGE INTO AREA INLETS WITHIN THE CASA GRANDE PARKING LOT. THIS FLOW THEN CONNECTS TO THE EXISTING STORM DRAIN WITHIN NEW YORK AVE. BASIN 5 DISCHARGES INTO A CURB INLET ALONG THE WESTERN PORTION OF THE CASA GRANDE SITE. THIS STORM DRAIN THEN DIRECTLY CONNECTS TO THE EXISTING STORM DRAIN WITHIN NEW YORK AVE. AS WELL.

BASINS 6, 7, 8, 9 AND 10 DISCHARGE TO AREA INLETS WITHIN THE FIRE ACCESS ROAD OR PARKING LOT. THIS FLOW THEN CONNECTS TO THE EXISTING STORM DRAIN AT THE SAME MANHOLE AS BASINS 2 AND 3. BASINS 9, 10, 11, AND 12 ARE ALL SMALL BASINS CONTRIBUTING TO SMALLER DOME INLETS AROUND THE POOL AREA AND COURTYARD ON THE EL VADO SITE. BASIN 13 INCLUDES THE AMPHITHEATER WHICH WILL CONNECT TO THE ONSITE STORM DRAIN. BASINS 11, 12, AND 13 ALL DISCHARGE TO THE BACK OF AN EXISTING INLET WITHIN CENTRAL AVE.

INLET 1 ON THE CASA GRANDE SITE IS A WATER QUALITY INLET PER THE CITY OF ALBUQUERQUE HYDROLOGY DEPARTMENT'S REQUIREMENT. THIS INLET WILL TREAT BASIN 2 AND 3

INLET 4 WITHIN THE MEDIAN LANDSCAPE IS ANOTHER PROPOSED WATER QUALITY INLET AND WILL BE USED TO TREAT BASINS 6, 7 AND 8.

A WATER QUALITY MANHOLE LOCATED ON THE WESTERN SIDE OF EL VADO WILL BE CONSTRUCTED PER THE SAME HYDROLOGY REQUIREMENT. THIS MANHOLE IS THE FURTHEST POINT DOWNSTREAM ON THE EL VADO SITE.

THIS DRAINAGE MANAGEMENT PLAN AND GRADING PLANS DEMONSTRATE THAT THE DRAINAGE ELEMENTS PROPSOED WITH THE PROJECT ARE CAPABLE OF SAFELY CONVEYING THE 100 YEAR, 6 HOUR STORM EVENT IN ACCORDANCE WITH THE DEVELOPMENT PROCESS MANUAL. WITH THIS SUBMITTAL WE ARE SEEKING CITY OF ALBUQUERQUE HYDROLOGY APPROVAL IN SUPPORT OF FOUNDATION PERMIT, BUILDING PERMIT APPROVAL AND PUBLIC WORK ORDER APPROVAL.

GRADING LEGEND

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	PROPERTY LINE		PROPOSED CURB &
	PROJECT LIMITS OF GRADING	<i>S=2.0%</i>	DIRECTION OF FLOW
— — — 5025 — — —	EXISTING INDEX CONTOUR		WATER BLOCK/GRAI BREAK
— — — 5024 — — —	EXISTING INTERMEDIATE CONTOUR		PROPOSED STORM I
● ^{5025.25}	EXISTING GROUND SPOT ELEVATION	۲	PROPOSED STORM I
	PROPOSED INDEX CONTOUR		
5024	PROPOSED INTERMEDIATE CONTOUR		INLETS
• ^{26.75}	PROPOSED FINISHED GRADE SPOT ELEVATION TC=TOP OF CURB,		PROPOSED RETAININ EASEMENT
	FL=FLOW LINE, TS=TOP OF SIDEWALK TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW	$\langle \rangle$	PROPOSED WATER HARVESTING AREAS FLUSH REQUIREMEN
Boł	nannan		ston

POSED CURB & GUTTER CTION OF FLOW

ER BLOCK/GRADE

POSED STORM DRAIN POSED STORM DRAIN HOI F

POSED STORM DRAIN

POSED RETAINING WALL EMENT

POSED WATER RVESTING AREAS (FIRST SH REQUIREMENT)



ARCHITECTURE / DESIGN / INSPIRATION



7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG ARCHITECT





REVISIONS 12-14-2017 REVISIONS DUE TO ART RECONFIGURATION

DRAWN BY	MHS
REVIEWED BY	MJB
DATE	08/04/2016
PROJECT NO.	15-0147
DRAWING NAME	

DRAINAGE MANAGEMENT PLAN

SHEET NO.







GENERAL NOTES

- A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.
- B. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- C. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- D. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- E. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- H. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- J. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- K. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- .. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- M. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- N. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- O. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- P. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- Q. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION". ALL OTHER WORK SHALL UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- R. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- S. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- T. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- U. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- V. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- W. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.
- X. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.





ARCHITECTURE / DESIGN / INSPIRATION



7601 JEFFERSON NE, SUITE 100 ALBUQUERQUE, NM 87109 505.761.9700 / DPSDESIGN.ORG ARCHITECT





REVISIONS

2016-11-8 BUILDING PERMIT COMMENTS \bigtriangleup

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DRAWN BY	MHS
REVIEWED BY	MJB
DATE	08/04/2016
PROJECT NO.	15-0147
DRAWING NAME	

C100

GRADING PLAN

SHEET NO.





◯ GRADING KEYNOTES

- INSTALL HDPE (N12 WT, OR APPROVED EQUAL) STORM DRAIN
- 2. CONNECT TO EXISTING SINGLE COA TYPE "C" STORM DRAIN INLET
- 3. INSTALL NEW 24" DOME NYLOPLAST STORM DRAIN INLET.
- 4. INSTALL CURB OPENING PER DETAIL E5, SHEET C101.
- 5. INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2421.
- 6. INSTALL SIDEWALK CULVERT PER COA STD DWG 2236
- 7. INSTALL NYLOPLAST STORM DRAIN INLET WITH SOLID COVER. 8. INSTALL PRE-FABRICATED STORM DRAIN WATER TIGHT FITTING,
- 9. CONSTRUCTED UNDER COA WORK ORDER #634780.
- 10. INSTALL NEW STORMCEPTOR STC450i WATER QUALITY STRUCTURE WITH GRATE PER MANUFACTURERS
- 11. 4" ROOF DRAIN LINE CONSTRUCTED AT A MINIMUM 1% SLOPE.



Bohannan 🛦 Huston

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SHEET ____ OF ____

- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF
- D. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
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- G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S
- H. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
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- ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND
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- ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- M. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- N. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- O. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS
- P. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT
- Q. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION. SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION". ALL OTHER WORK SHALL. UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND



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- INSTALL HDPE (N12 WT, OR APPROVED EQUAL) STORM DRAIN PIPE
- 2. CONNECT TO EXISTING SINGLE COA TYPE "C" STORM DRAIN INLET PER COA WORK ORDER # 634780.

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DESIGN PLUS, LLC

GRADING

PLAN

C-101

SHEET ____ OF ____

SHEET TITLE

- 3. INSTALL NEW 24" DOME NYLOPLAST STORM DRAIN INLET.
- 4. INSTALL CURB OPENING PER DETAIL E5, SHEET C101.
- 5. INSTALL CONCRETE VALLEY GUTTER PER COA STD DWG 2421.
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- 7. INSTALL NYLOPLAST STORM DRAIN INLET WITH SOLID COVER. 8. INSTALL PRE-FABRICATED STORM DRAIN WATER TIGHT FITTING,
- SEE PLAN FOR SIZE. 9. CONSTRUCTED UNDER COA WORK ORDER #634780.
- 10. INSTALL NEW STORMCEPTOR STC450i WATER QUALITY STRUCTURE WITH GRATE PER MANUFACTURERS RECOMMENDATIONS.
- 11. 4" ROOF DRAIN LINE CONSTRUCTED AT A MINIMUM 1% SLOPE.

GRADING LEGEND





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