CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



August 3, 2020

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

RE: Kirtland AFB Enhanced Use Lease

Grading & Drainage Plan and Drainage Report

Engineer's Stamp Date: 07/21/20 Hydrology File: M17D001A

Dear Mr. Balaskovits:

Based upon the information provided in your submittal received 07/22/20, the Grading &

Drainage Plan and Drainage Report are approved for Grading Permit.

As we had discussed on the phone, the detention facility for this development will be designed as a series of connecting ponds. I suggested that PCSWWM would be the perfect program to use to

design this detention facility once you submit for Building Permit.

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 (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to

any earth disturbance.

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

Sincerely,

Albuquerque

www.cabq.gov

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

Renée C. Brissette

Planning Department



City of Albuquerque

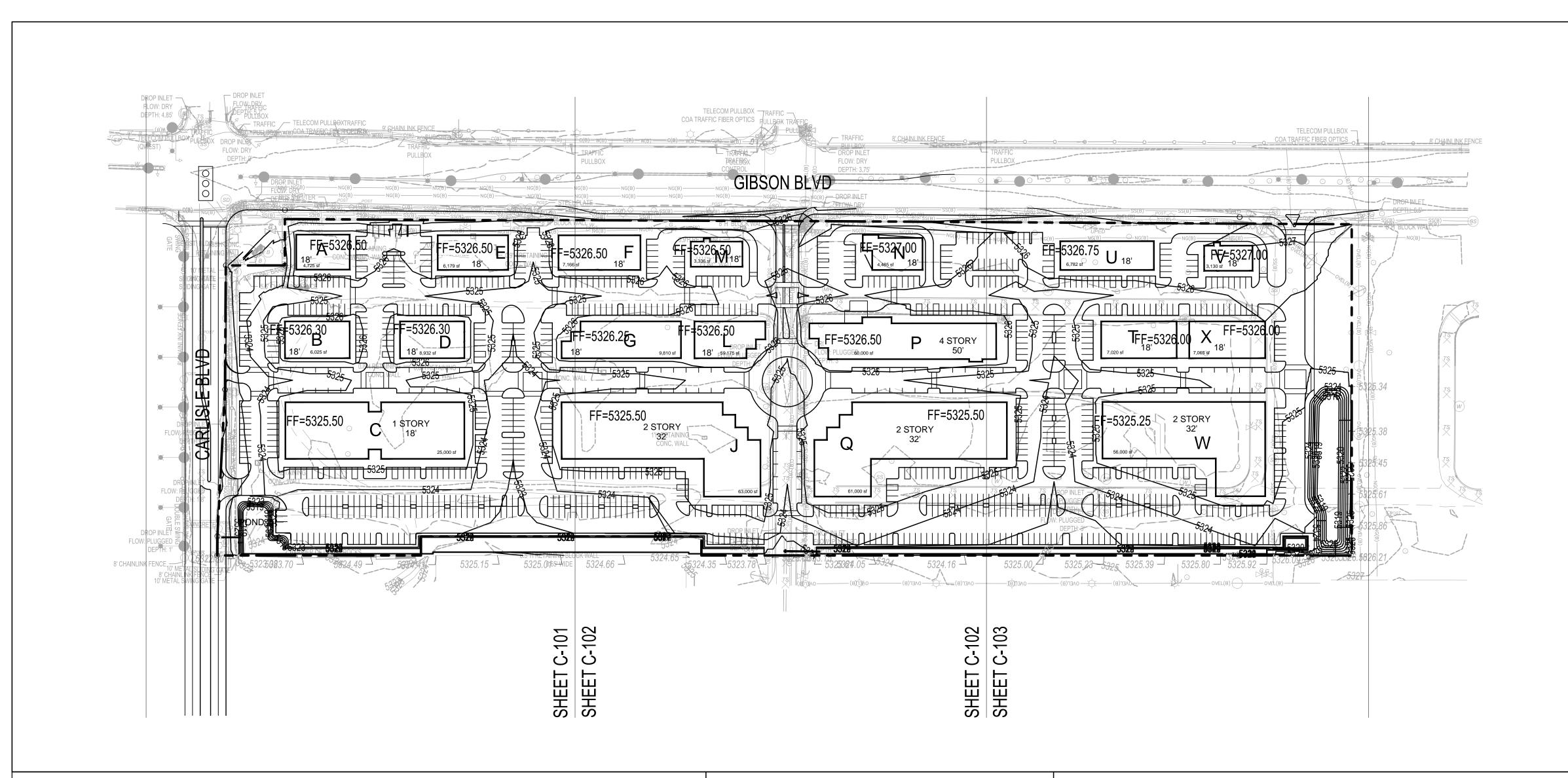
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title:	Building Per	mit #: Hydrology File #:				
		Work Order#:				
City Address:						
Applicant:		Contact:				
Address:						
		E-mail:				
Other Contact:		Contact:				
Address:						
		E-mail:				
TYPE OF DEVELOPMENT:	PLAT RES	IDENCE 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:		DDELD ADJANA NI AT ADDROVAL				
ENGINEER/ARCHITECT CERTIF	ICATION	PRELIMINARY PLAT APPROVAL SITE PLAN FOR SUB'D APPROVAL				
PAD CERTIFICATION						
CONCEPTUAL G & D PLAN		SITE PLAN FOR BLDG. PERMIT APPROVAL				
GRADING PLAN		FINAL PLAT APPROVAL				
DRAINAGE REPORT		CIA/DELEACE OF ENIANCIAL CHARANTEE				
DRAINAGE MASTER PLAN	EDIME ADDING	SIA/ RELEASE OF FINANCIAL GUARANTED FOUNDATION PERMIT APPROVAL				
FLOODPLAIN DEVELOPMENT P	ERMIT APPLIC	GRADING PERMIT APPROVAL				
ELEVATION CERTIFICATE CLOMR/LOMR		SO-19 APPROVAL				
TRAFFIC CIRCULATION LAYOU	TT (TCL)	PAVING PERMIT APPROVAL				
TRAFFIC EIRCULATION LATOC	i (ICL)	GRADING/ PAD CERTIFICATION				
STREET LIGHT LAYOUT		WORK ORDER APPROVAL				
OTHER (SPECIFY)		CLOMR/LOMR				
PRE-DESIGN MEETING?		FLOODPLAIN DEVELOPMENT PERMIT				
I KE-DESIGN WEETING!		OTHER (SPECIFY)				
IS THIS A RESUBMITTAL?: Yes	No	OTHER (OF DOIL 1)				
DATE SUBMITTED:	By:					

FEE PAID:__



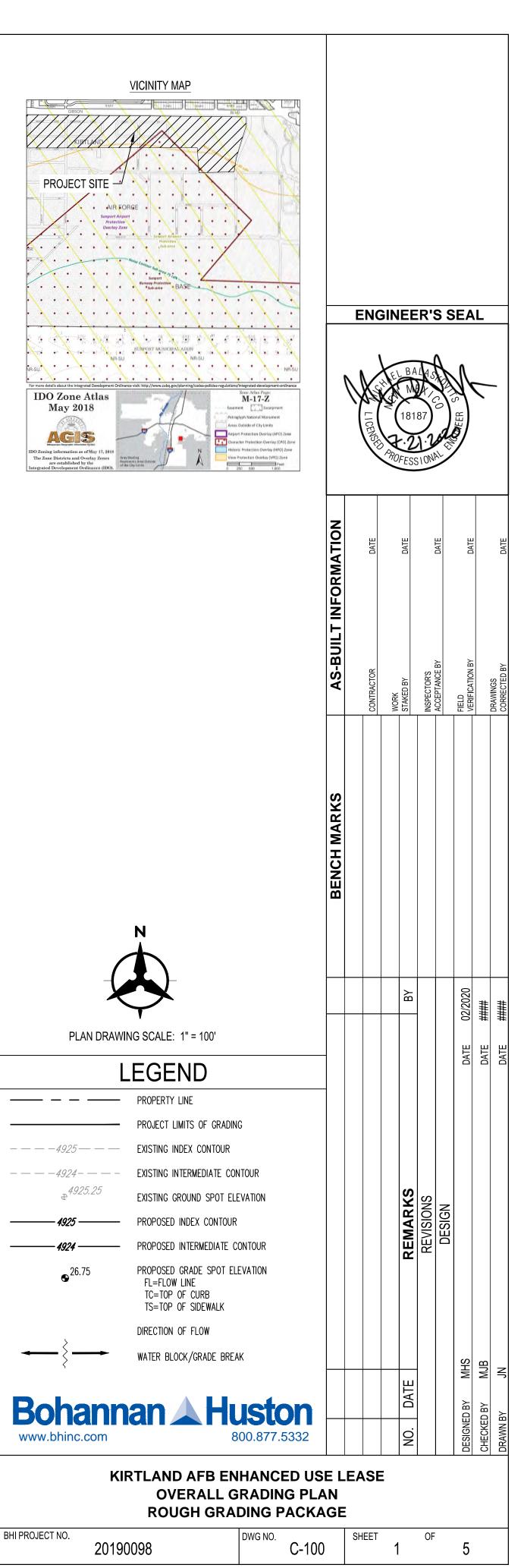
CIVIL GENERAL NOTES

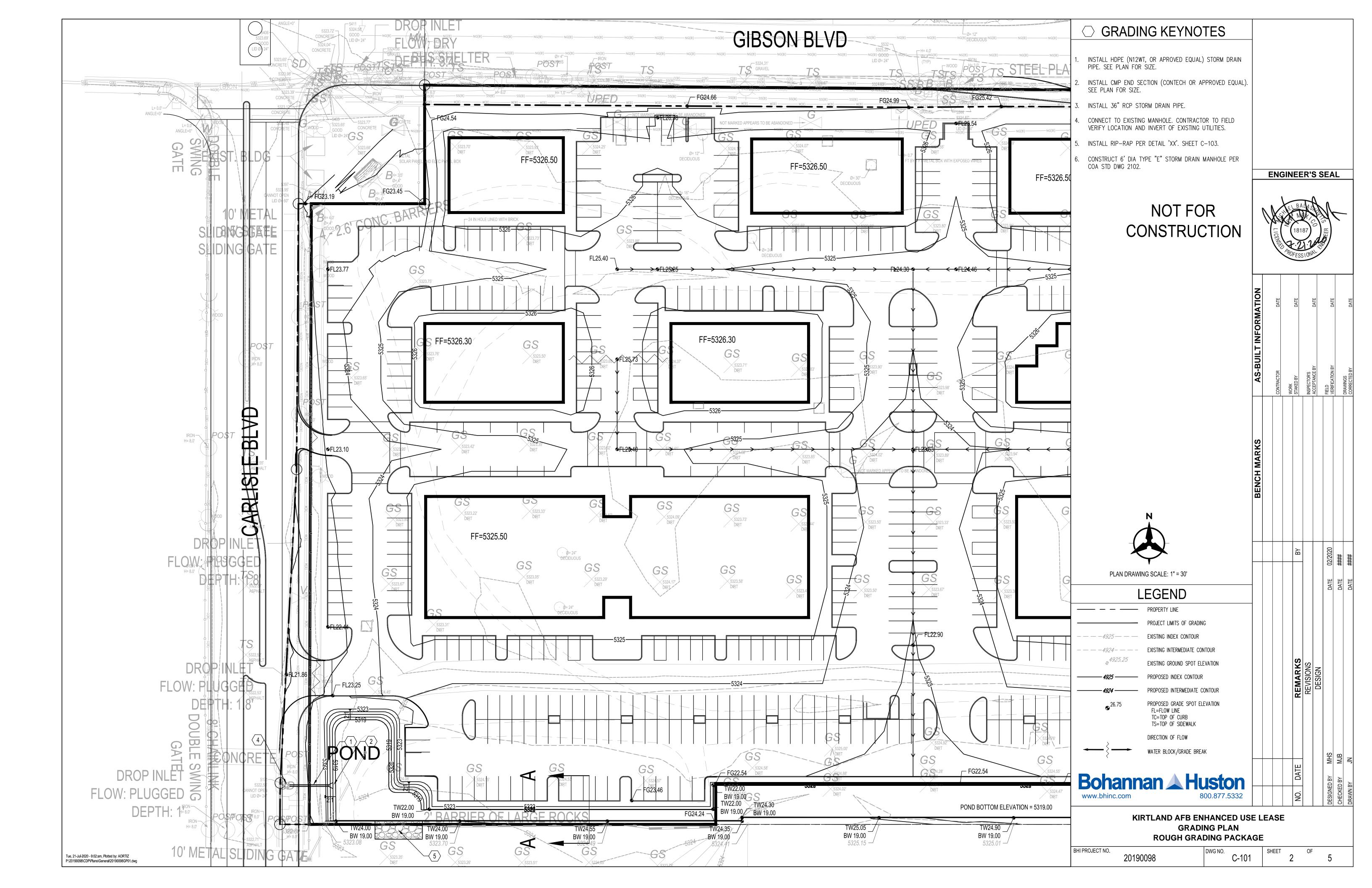
- 1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL APPLY.
- 2. THE CONTRACTOR 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.
- 3. 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 CONTRACTING OFFICER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 4. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THE CONTRACTING OFFICER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY THE CONTRACTING OFFICER'S WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW THE CONTRACTING OFFICER'S CREWS TO PERFORM THEIR REQUIRED WORK.

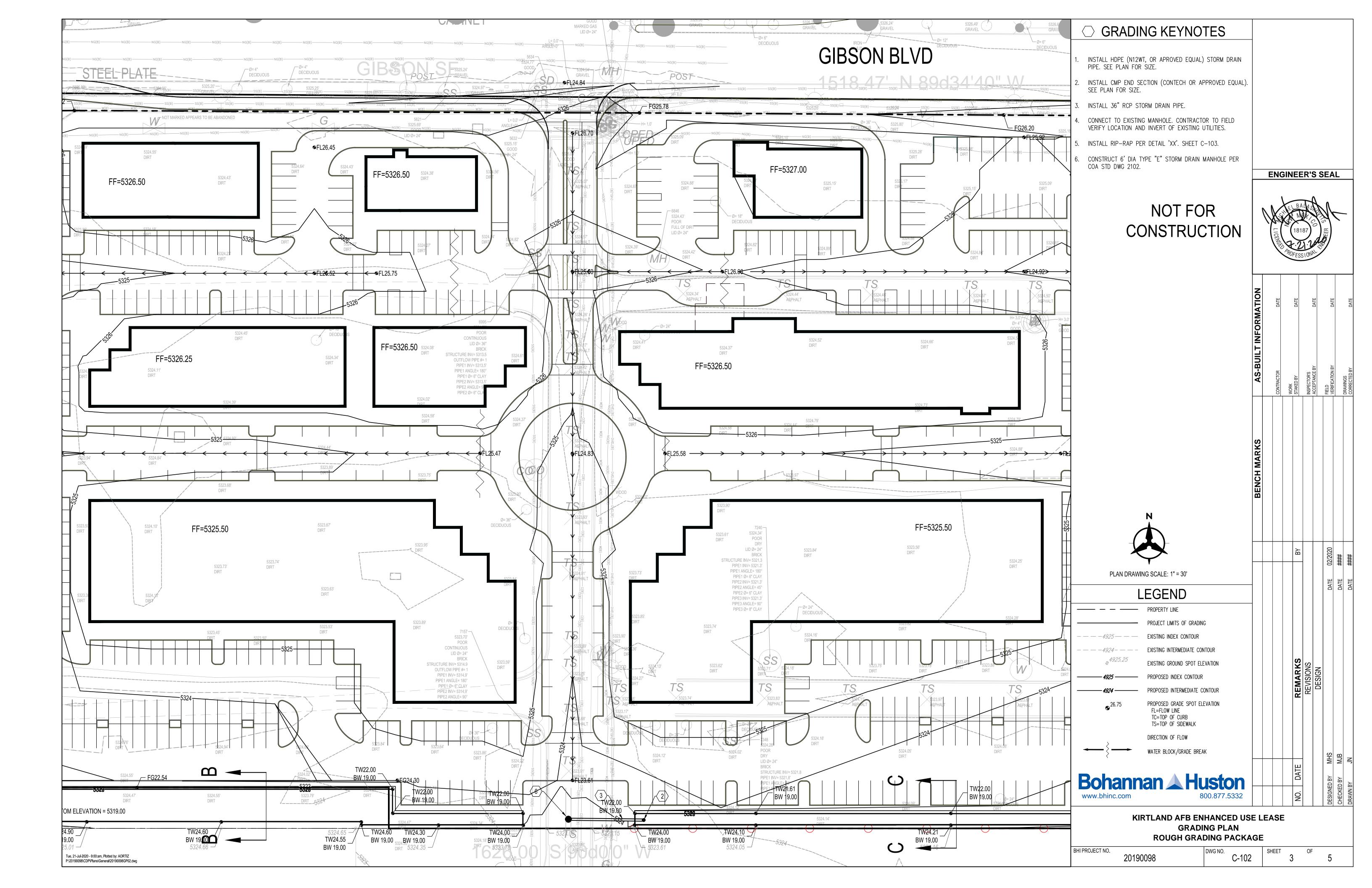
- 5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONTRACTING OFFICER.
- 6. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROJECT LIMITS. ANY DAMAGE TO ADJACENT IMPROVEMENTS RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- 7. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES.
- 8. THE CONTRACTOR SHALL COORDINATE WITH THE CONTRACTING OFFICER TO OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION.
- 9. 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.
- 10. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES.
- 11. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS, FDP & SWPPP.

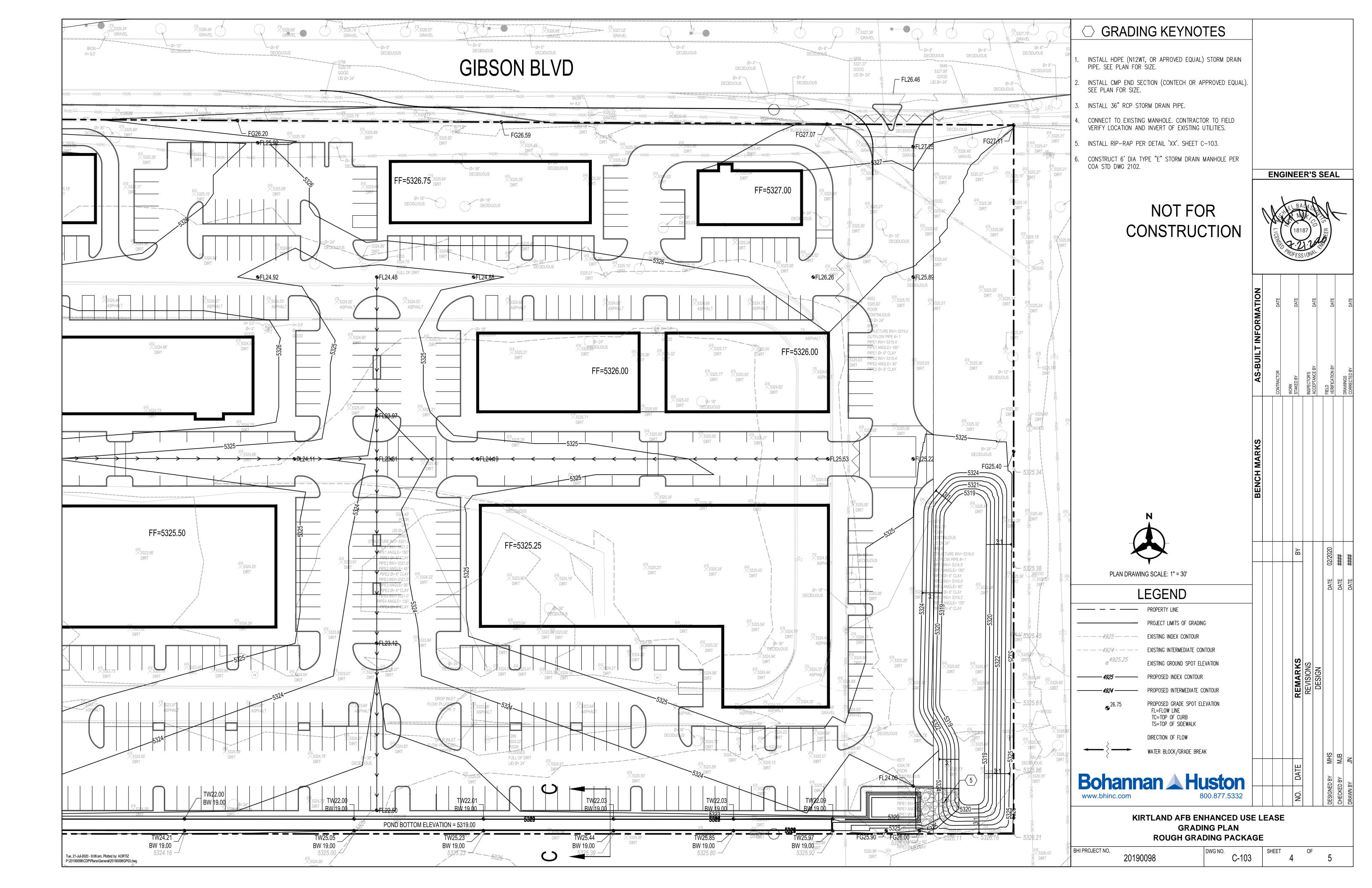
GRADING NOTES

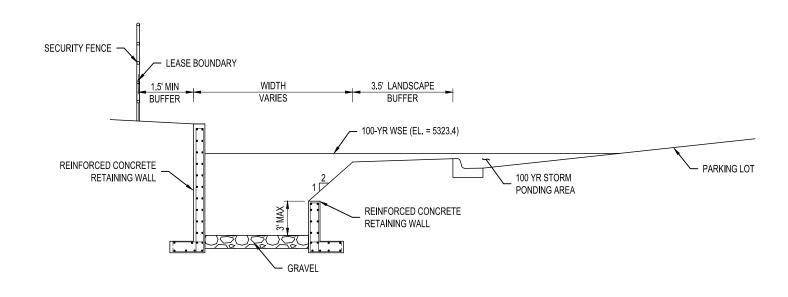
- 1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- 3. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- 4. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROJECT BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- 5. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.
- 6. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY AND PERMANENT SURFACE EROSION CONTROL MEASURES FOR ALL DISTURBED AREAS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.







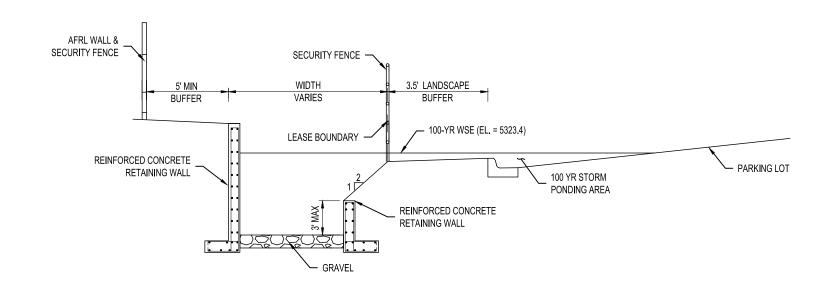




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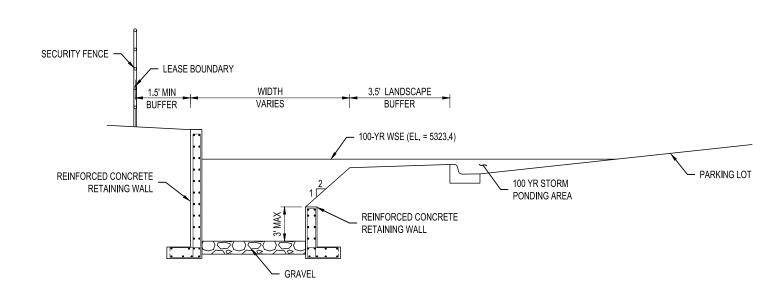
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DETENTION POND TYPICAL SECTION

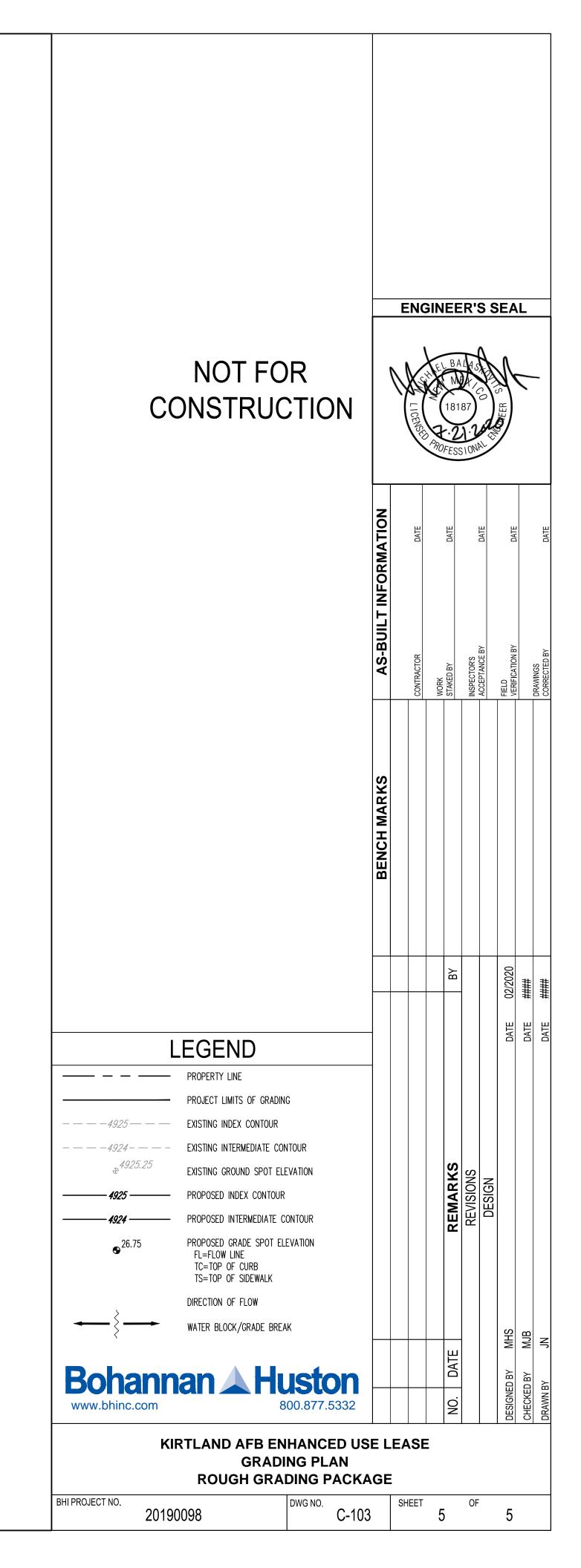
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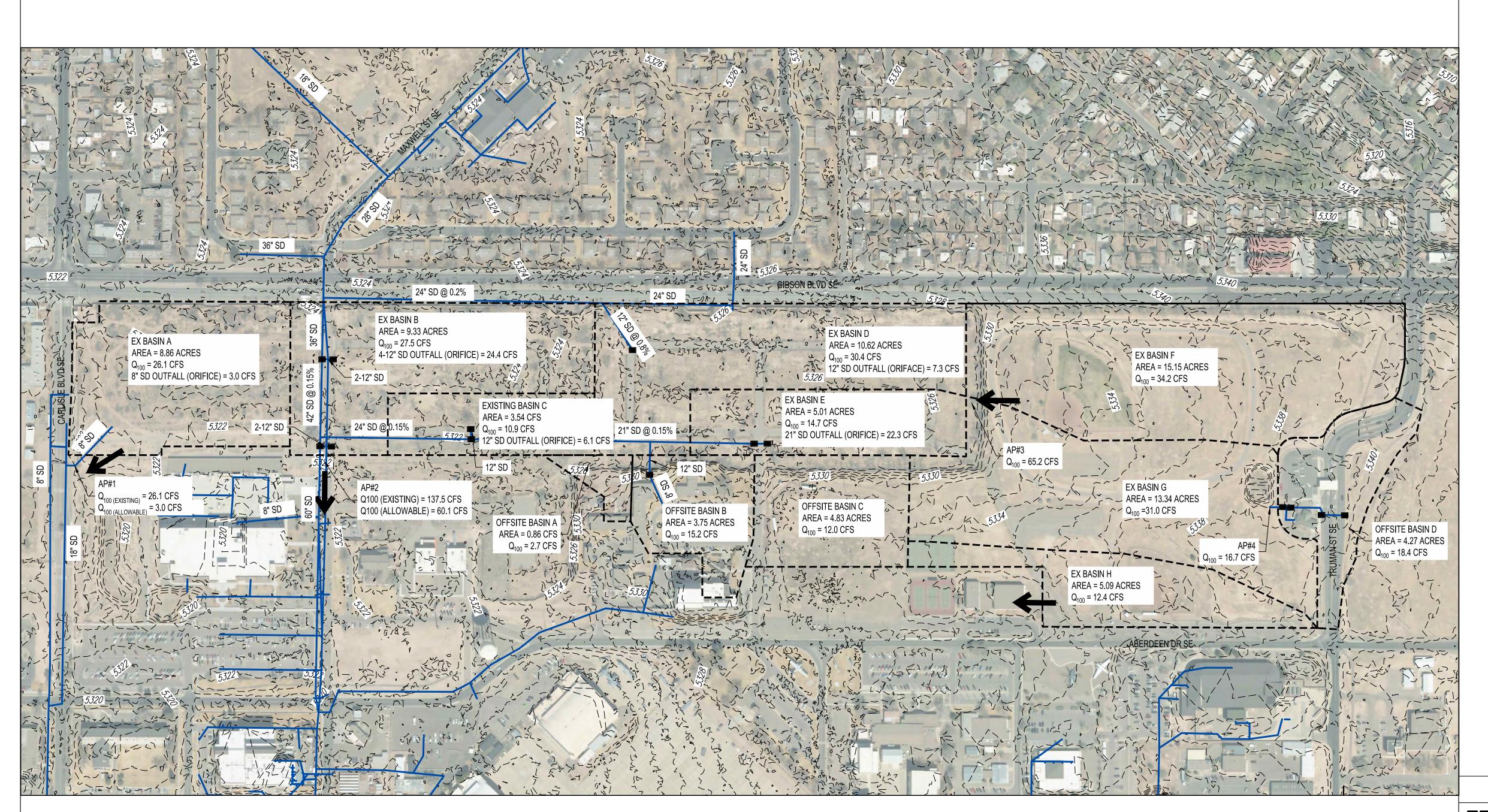
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DETENTION POND TYPICAL SECTION

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DRAINAGE NARRATIVE:

INTRODUCTION:

THIS DRAINAGE MANAGEMENT PLAN IS PRESENTED IN SUPPORT OF THE KAFB EUL MAX Q ROUGH GRADING PERMIT APPROVAL. THE 70 ACRE SITE IS LOCATED SOUTH OF GIBSON BLVD, NORTH OF THE KIRKLAND AIR FORCE BASE, EAST OF CARLISLE BLVD AND WEST OF TRUMAN ST. PER FEMA COMMUNITY MAP PANELS #35001C0361G & #35001C0362H THE SITE IS NOT LOCATED WITHIN A FEMA REGULATORY FLOODPLAIN.

METHODOLOGY:

THE HYDROLOGY ANALYSIS HAS BEEN PREPARED IN ACCORDANCE WITH CHAPTER 6 OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL DATED 06/08/2020. THE DESIGN STORM IS THE 100 YEAR - 24 HOUR EVENT. EXISTING CONDITIONS HAVE BEEN ANALYZED USING HEC-HMS 4.3. BASIN CURVE NUMBERS RANGE FROM 83 TO 87. EXISTING INFRASTRUCTURE CAPACITY HAS BEEN STUDIED USING THE ORIFICE EQUATION WHERE APPLICABLE.

EXISTING CONDITIONS:

THE SITE WAS PREVIOUSLY KAFB HOUSING THAT HAS SINCE BEEN TORN DOWN AND REMAINS MOSTLY UNDEVELOPED. A FEW STRUCTURES AND PAVED ROADS REMAIN FROM A PREVIOUS RESIDENTIAL DEVELOPMENT. THE SITE GENERALLY DRAINS EAST TO WEST AND SOUTH. THERE ARE TWO PRIMARY OUTFALLS FOR THE EXISTING SITE, AN 8" STORM DRAIN LOCATED ALONG CARLISLE, WEST OF AFRL, AND A 42" STORM DRAIN WITHIN MAXWELL. VARIOUS INLETS THROUGHOUT THE RESIDENTIAL AREA ULTIMATELY CONNECT TO THE EXISTING 42" IN MAXWELL THE PORTION OF THE SITE LOCATED WEST OF MAXWELL DRAINS TO THE WEST INTO THE CARLISLE STORM DRAIN SYSTEM. THE SITE CONVEYS OFFSITE FLOWS FROM THE SOUTH AND THE EAST.

ONSITE BASINS:

EX BASIN A IS LOCATED WEST OF MAXWELL RD. THIS BASIN HISTORICALLY DISCHARGE INTO AN EXISTING 8" STORM DRAIN PIPE LOCATED IN THE SOUTHWEST CORNER OF THE BASIN. RUNOFF FROM THIS BASIN CONTRIBUTES TO ANALYSIS POINT #1.

EX BASIN B IS LOCATED EAST OF MAXWELL RD. THIS BASIN DRAINS EAST TO WEST. RUNOFF FROM THIS BASIN DISCHARGES INTO 4-12" STORM DRAIN PIPES (VIA INLETS) WITHIN MAXWELL RD THAT ULTIMATELY CONNECT TO THE EXISTING 42" STORM DRAIN IN MAXWELL. THIS BASIN CONTRIBUTES TO ANALYSIS POINT #2.

EX BASIN C IS LOCATED EAST OF MAXWELL RD. RUNOFF FROM THIS BASIN INTO 1-12" STORM DRAIN PIPE (VIA INLETS) WITHIN AN EXISTING ROADWAY. THESE INLETS AND PIPE ULTIMATELY CONNECT TO THE EXISTING 42" STORM DRAIN IN MAXWELL. THIS BASIN CONTRIBUTES TO ANALYSIS POINT #2.

EX BASIN D IS LOCATED IN THE MIDDLE OF THE SITE. RUNOFF FROM THIS BASIN DISCHARGES INTO AN EXISTING INLET THAT CONNECTS TO A 12" STORM DRAIN PIPE. THIS PIPE RUNS NORTH INTO GIBSON BLVD BUT ULTIMATELY CONNECTS TO THE EXISTING 42" STORM DRAIN IN MAXWELL. THIS BASIN CONTRIBUTES TO ANALYSIS POINT #2.

EX BASIN F AND EX BASIN G ARE LOCATED IMMEDIATELY WEST OF TRUMAN ST. RUNOFF FROM THESE BASINS SHEET FLOWS TO THE WEST TOWARD EX BASIN D AN EX BASIN E. RUNOFF FROM THESE BASINS CONTRIBUTE TO ANALYSIS POINT #3, BUT ULTIMATELY DISCHARGES INTO MAXWELL RD.

EX BASIN H IS LOCATED NORTH OF ABERDEEN DR NEAR ITS INTERSECTION WITH TRUMAN ST. RUNOFF FROM THIS BASIN SHEET FLOWS TO THE WEST TOWARDS ABERDEEN RD AND DOES NOT IMPACT THE REST OF THE EXISTING SITE.

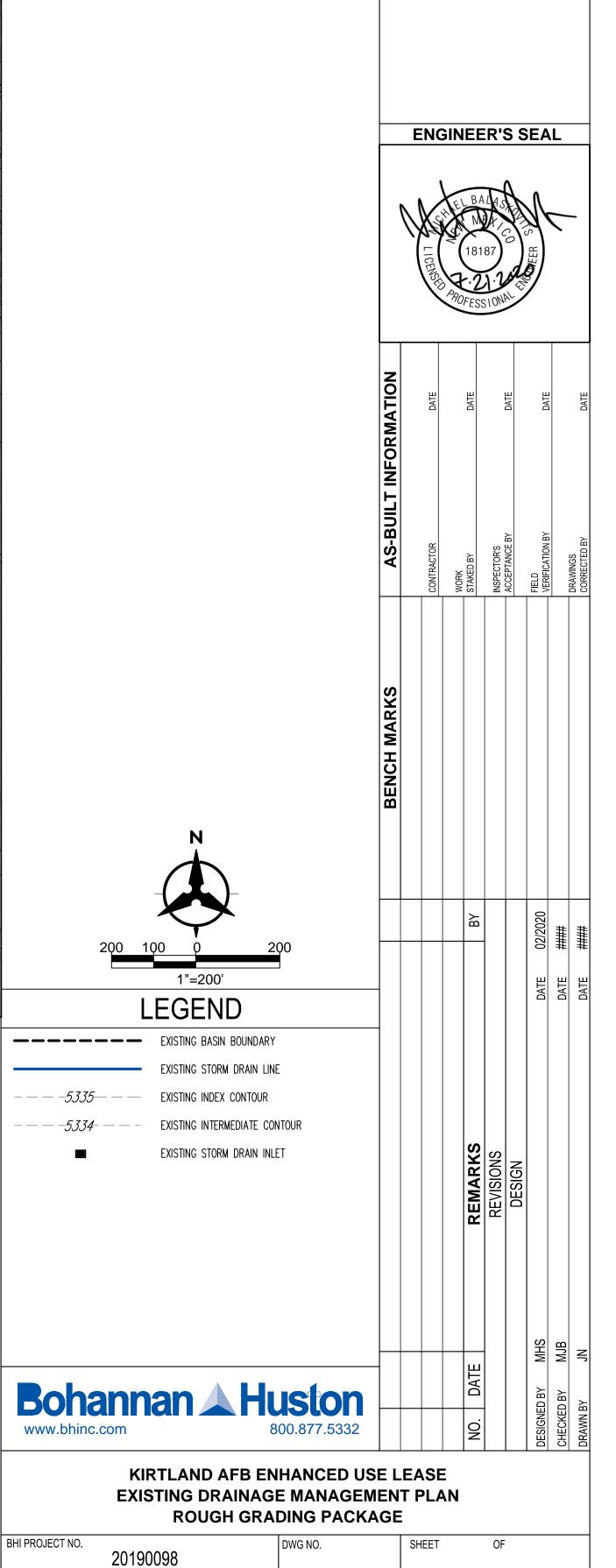
OFFSITE BASINS:

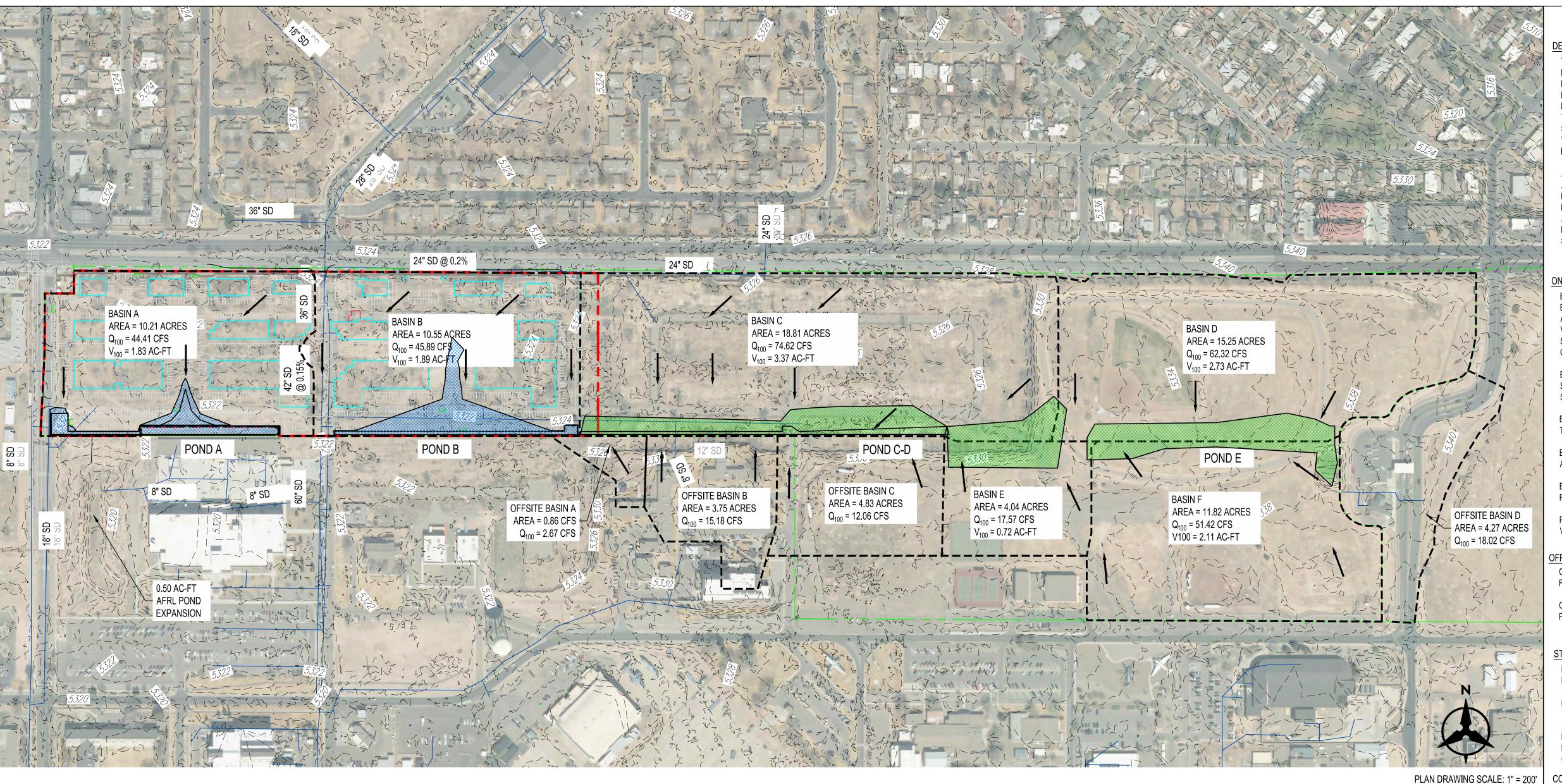
OFFSITE BASINS A, B & C DISCHARGE TO THE NORTH. RUNOFF FROM BASINS DISCHARGE INTO THE EXISTING STORM DRAIN INFRASTRUCTURE WHERE EX BASINS C & E DISCHARGE TO. RUNOFF FROM THESE BASINS CONTRIBUTES TO ANALYSIS POINT #2.

OFFSITE BASIN D IS LOCATED ALONG TRUMAN ST. RUNOFF FROM THIS BASIN DISCHARGES INTO A POND WEST OF THE TRUMAN GATE. RUNOFF DOES NOT IMPACT THE REMAINDER OF THE SITE.

ALLOWABLE DISCHARGE:

BASED ON THE CALCULATED RUNOFF FLOWRATES, EXISTING HISTORICAL FLOWRATES EXCEED THE CAPACITY OF THE EXISTING INFRASTRUCTURE. CAPACITY OF THE EXISTING INFRASTRUCTURE WAS THEN USED TO ESTABLISH THE FLOWRATES THE PROPOSED DEVELOPMENT SHOULD BE HELD TO. BASED ON THIS FINDING, THE ALLOWABLE DISCHARGE TO THE CARLISLE SYSTEM IS 3.0 CFS WHILE 60.1 CFS IS THE ALLOWABLE DISCHARFE TO THE MAXWELL SYSTEM.





KAFB EUL Developed Conditions Basin Data Table												
Basin	Area	Area	Land Treatment Percentages				Q(100yr)	V _(100yr-24hr)	Weighted	SWQV		
ID	(SQ. FT)	(AC.)	Α	В	С	D	(CFS)	(AC-FT)	Curve #	(CF)		
ONSIT	E BASINS											
BASIN A	444843	10.21	0.0%	0.0%	15.0%	85.0%	44.40	1.83	96	8193		
BASIN B	459634	10.55	0.0%	0.0%	15.0%	85.0%	45.89	1.89	96	8465		
BASIN C	819445	18.81	0.0%	0.0%	15.0%	85.0%	74.62	3.37	96	15091		
BASIN D	664472	15.25	0.0%	0.0%	15.0%	85.0%	63.32	2.73	96	12237		
BASIN E	175928	4.04	0.0%	0.0%	15.0%	85.0%	17.56	0.72	96	3240		
BASIN F	515070	11.82	0.0%	0.0%	15.0%	85.0%	51.42	2.11	96	9486		
TOTAL	3079392	70.69	-	-	-	-	297.2	12.65		56712		
OFFSITE BASINS												
OFF BASIN A	37479	0.86	0.0%	0.0%	80.0%	20.0%	2.67	0.10	88	N/A		
OFF BASIN B	163451	3.75	0.0%	0.0%	35.0%	65.0%	15.18	0.61	94	N/A		
OFF BASIN C	212294	4.87	0.0%	45.0%	45.0%	10.0%	13.02	0.48	84	N/A		
OFF BASIN D	186001	4.27	0.0%	20.0%	20.0%	60.0%	18.02	0.71	92	N/A		
TOTAL	599225	13.76	-	-	-	-	48.9	1.90		N/A		

Pond A Data:

Q_in = 44.41 cfs $V_s =$ 1.7 ac-ft 5319.5 ft Bottom Elev = Top Elev = 5324.5 ft Max WSE = 5323.3 ft Spillway Elev = 5323.15 ft 9.8 cfs Q out (spillway)= 8" Outlet Pipe (Carlisle) Pipe Invert Elev = 5320.2 Q_out (pipe)= 2.9 cfs SWQV = 0.25 ac-ft

Pond B Data:

Q in = 71 cfs 0.9 ac-ft V s = Bottom Elev = 5319 ft Top Elev = 5324.5 ft 5323.5 ft Max WSE = 5323.25 ft Spillway Elev = Q_out (spillway)= 12.8 cfs 36" Outlet Pipe (Maxwell) Pipe Invert Elev = 5320 ft 55.54 cfs Q_out (pipe)= SWQV = 0.1 ac-ft

Pond C-D Data:*

Q_in = 155.3 cfs

Pond E Data: *

Q_in = 131.5 cfs

* PONDS C-D & E SHALL PROVIDE A COMBINED

STORAGE VOLUME OF 8.2 AC-FT

DRAINAGE NARRATIVE:

DEVELOPED CONDITIONS:

THIS DRAINAGE MANAGEMENT PLAN ADDRESSES PROPOSED STORM DRAIN INFRASTRUCTURE AND DRAINAGE MANAGEMENT SCHEMES FOR FULLY DEVELOPED CONDITIONS TO ALLOW FOR THE SAFE MANAGEMENT OF STORM RUNOFF. WHILE THE SITE WILL BE DEVELOPED IN SEVERAL PHASES, THE LIKELYHOOD OF THE SITE PLAN TO BE ALTERED WILL REQUIRE EACH PHASING SUBMITTAL TO BE SUPPORTED BY A PHASE SPECIFIC DMP AND GRADING PLAN THAT WILL ENSURE EXISTING ONSITE AND OFFSITE DOWNSTREAM INFRASTRUCTURE IS NOT NEGATIVELY IMPACTED.

A SERIES OF ONSITE DETENTION PONDS WILL BE CONSTRUCTED TO ATTENUATE DEVELOPED RUNOFF. THE AFRL RETENTION POND WILL BE EXPANDED. PONDING LOCATED ON SUBSEQUENT PHASES WILL BE NECESSARY TO ATTENUATE DEVELOPED FLOWS. DETAILS ASSOCIATED WITH THESE OFFSITE PONDS (i.e. SIZE, DEPTH, LOCATION, ETC.) WILL BE PROVIDED UPON SUBMITTAL OF SUBSEQUENT PHASES.

ENGINEER'S SEAL

ONSITE BASINS

BASIN A IS LOCATED WEST OF MAXWELL RD. RUNOFF FROM THIS BASIN DRAINS SOUTH TO POND A. POND A PROVIDES A TOTAL 1.7 AC-FT OF STORAGE AND 0.25 AC-FT OF STORM WATER QUALITY VOLUME. POND A HAS AN 8" OUTLET PIPE CONNECTED TO THE STORM DRAIN WITHIN CARLISLE BLVD. AND A SPILLWAY AND CHANNEL TO AFRL POND.

BASIN B IS LOCATED EAST OF MAXWELL RD. THIS BASIN DRAINS SOUTH TO POND B. POND B PROVIDES A TOTAL 0.9 AC-FT OF STORAGE AND 0.1 AC-FT OF STORM WATER QUALITY VOLUME.

BASIN C IS LOCATED IN THE MIDDLE OF THE SITE. RUNOFF FROM THIS BASIN DISCHARGES SOUTH TO POND C-D.

BASIN E IS LOCATED IN THE MIDDLE OF THE SITE NORTH OF ABERDEEN RD. THIS BASIN DRAINS NORTH TO POND C-D.

BASINS D AND E ARE LOCATED EAST OF TRUMAN RD. RUNOFF FROM THESE BASINS DISCHARGE INTO POND E.

PONDS C-D AND E SHALL PROVIDE A COMBINED STORAGE VOLUME OF APPROXIMATELY 8.2 AC-FT.

OFFSITE BASIN

OFFSITE BASINS A, B & C DISCHARGE TO THE NORTH. RUNOFF FROM BASINS DISCHARGE INTO PONDS B AND C-D.

OFFSITE BASIN D IS LOCATED ALONG TRUMAN ST. RUNOFF FROM THIS BASIN DISCHARGES INTO POND E.

STORMWATER QUALITY:

PER THE CITY OF ALBUQUERQUE CURRENT DPM, THE SITE IS REQUIRED TO RETAIN THE "FIRST FLUSH" STORMWATER QUALITY VOLUME COMPUTED AS THE IMPERVIOUS AREA TIMES 0.26".
RETENTION COMPONENTS WITHIN THE LARGER DETENTION FACILITIES WILL BE PROVIDED TO ACCOMMODATE THIS FIRST FLUSH VOLUME. IN ADDITION AREAS FOR ONSITE RETENTION WITHIN THE SPECIFIC BUILD PERMITS PACKAGES WILL BE EXPLORED. WHERE RETENTION IS NOT FEASIBLE THE DEVELOPMENT MAY REQUEST THE OPTION OF CASH-IN-LIEU TO COVER THE FIRST FLUSH VOLUME.

CONCLUSIONS:

THE PROPOSED ONSITE AND OFFSITE INFRASTRUCTURE WILL BE SIZED TO ACCOMMODATE THE 100-YEAR, 24-HOUR STORM EVENT AND PREVENT DAMAGES TO PROPERTY. DETENTION PONDS ATTENUATE PEAK DEVELOPED FLOWS TO ENSURE NO ADVERSE EFFECTS TO DOWNSTREAM INFRASTRUCTURE. THIS OVERALL MASTER DRAINAGE MANAGEMENT PLAN IS IN COMPLIANCE WITH THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL.

Bohannan A Huston

www.bhinc.com

LEGEND ——— — PROPERTY LINE PROJECT LIMITS OF GRADING — — — — 4925 — — EXISTING INDEX CONTOUR — — — — 4924— — — EXISTING INTERMEDIATE CONTOUR 4925.25 EXISTING GROUND SPOT ELEVATION PROPOSED INDEX CONTOUR ------ *4925* ------PROPOSED INTERMEDIATE CONTOUR ------ *4924* ------PROPOSED GRADE SPOT ELEVATION FL=FLOW LINE TC=TOP OF CURB TS=TOP OF SIDEWALK DIRECTION OF FLOW WATER BLOCK/GRADE BREAK

KIRTLAND AFB ENHANCED USE LEASE
OVERALL MASTER DRAINAGE MANAGEMENT PLAN

800.877.5332

BHI PROJECT NO. DWG NO. SHEET OF

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