

CITY OF ALBUQUERQUE

Planning Department
David S. Campbell, Director



Timothy M. Keller, Mayor

April 4, 2018

Jake Bordenave
Bordenave Designs
PO Box 91194
Albuquerque, NM 87199

RE: Homewood Suites - 5400 San Antonio Dr. NE
Grading and Drainage Plan
Engineer's Stamp Date 3/16/2018
Hydrology File: E18D050

Dear Mr. Bordenave:

Based on the information provided in the submittal received on 2/20/17 the above-referenced Grading and Drainage Plan cannot be approved for Site Plan for Building Permit and Building Permit until the following comments are addressed.

1. As agreed at our meeting several months ago, notes are to be added to the G&D Plan stating that "The existing Public Storm Drain thru this site must remain functional at all times until the new storm drain is constructed. Temporary diversion ditches will be constructed and maintained when the storm drain is not in service".
2. A sheet should be added to the G&D Plan showing the entire area of disturbance including the staging area south of the South Pino Arroyo. The sheet should include a line indicating the limits of disturbance, a note identifying the area of disturbance, and a note requiring "Native seed and mulch per COA STD Spec 1007 (or approved equal) of all disturbed areas prior to Certificate of Occupancy.

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

Prior to WO Approval

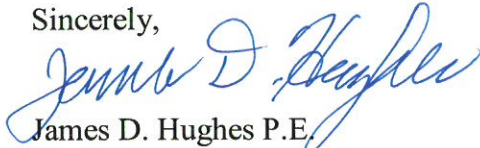
3. Add note 1 above to the DRC Plan & Profile sheet.
4. Remove the note on the plan & profile sheet that says "pipe is undersized..."

Prior to Certificate of Occupancy

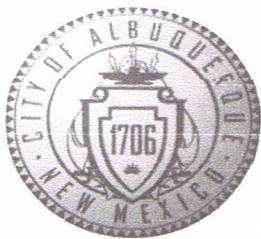
5. The final Elevation Certificate must be submitted to Rudy Rael with the as-built floor elevation prior to Certificate of Occupancy.
6. An Engineer's Certification is required prior to Certificate of Occupancy.

If you have any questions, I can be contacted at 924-3986 or jhughes@cabq.gov.

Sincerely,



James D. Hughes P.E.
Principal Engineer, Planning Dept.
Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 10/2015)

Project Title: HOMELAND SUITES Building Permit #: _____ Hydrology File #: E180050
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: TRACT A-3-A
City Address: 5400 SAN ANTONIO DRIVE NE

Applicant: BORDENAVE DESIGNS Contact: JAKE
Address: P.O. Box 91194, ALB., NM 87199
Phone#: 505-823-1344 Fax#: 505-821-9105 E-mail: jake.bordenave@comcast.net
Other Contact: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☐ DRAINAGE REPORT
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)
☐ OTHER (SPECIFY) _____

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY
☐ 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
☐ PRE-DESIGN MEETING?
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☒ Yes ☐ No

DATE SUBMITTED: 03/29/18 By: _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

#	KEYED NOTES
1. EXISTING BUILDING TO REMAIN. 2. EXISTING PRIVATE CONCRETE SIDEWALK TO REMAIN. 3. EXISTING ASPHALT DRIVEWAY AND PARKING TO REMAIN. 4. EXISTING PRIVATE CONCRETE CHANNEL AND CONCRETE WALKWAY. 4a. EXISTING PUBLIC CONCRETE CHANNEL & ASPHALT BIKE TRAIL (PINO ARROYO). 5. PROPOSED BUILDING. SEE ARCHITECTURAL FOR DETAILS. 6. PROPOSED CONCRETE TURNDOWN SIDEWALK. SEE SHEET C1.2 FOR DETAILS. 7. PROPOSED CONCRETE HEADER CURB. SEE SHEET C1.2 FOR DETAILS. 8. PROPOSED CONCRETE CURB AND GUTTER. SEE SHEET C1.2 FOR DETAILS. 9. PROPOSED HEAVY DUTY ASPHALT PAVEMENT. SEE SHEET C1.2 FOR DETAILS. 10. EXISTING 36" PUBLIC STORM DRAIN TO REMAIN IN PUBLIC EASEMENT ON PRIVATE PROPERTY. 11. EXISTING 36" PUBLIC STORM DRAIN TO BE REMOVED. 12. EXISTING 36" PUBLIC STORM DRAIN TO BECOME PRIVATE STORM DRAIN ON VACATED PUBLIC EASEMENT. 13. EXISTING 36" PUBLIC STORM DRAIN AND 6" MANHOLE (RIM 12.85, INV. 02.62) A PRIVATE STORM DRAIN ON PUBLIC PROPERTY. 13a. EXISTING 36" PUBLIC STORM DRAIN TO REMAIN. *14. PROPOSED 36" PUBLIC STORM DRAIN IN 30' PUBLIC EASEMENT. EASEMENT DOCUMENT FILED IN THE PUBLIC RECORDS AS DOCUMENT _____, FILED _____. *15. PROPOSED 6' TYPE 'E' MANHOLE PER COA STD. DWG. 2209. *16. PROPOSED 6' TYPE 'E' MANHOLE PER COA STD. DWG. 2209. *16a. PROPOSED 6' TYPE 'E' MANHOLE PER COA STD. DWG. 2209. *17. EXISTING MANHOLE TO REMAIN. INLET INV. 02.01, RIM 08.85. *18. PROPOSED CONCRETE CHANNEL TO EXISTING CONCRETE SIDE INLET TO PINO ARROYO CHANNEL PER COA STD. DWG 2260.	19. PROPOSED PRIVATE CONCRETE CHANNEL TO BE EXTENDED, PRIVATE DBL. 'D' CATCH BASIN AND 12" OUTLET TO BE CONNECTED TO EXISTING 36" STORM DRAIN. SEE SHEET C1.2 FOR DETAILS. 20. PROPOSED 12:1 CONCRETE SIDEWALK RAMP w/ 24" TRUNCATED DOME MAT AT BASE. 21. 10"x10" CONCRETE OR POLY CARBONATE CATCH BASIN w/ 6" PVC OR SMOOTH WALL HDPE OUTLET PIPE. OUTLET INV. 14.95. SEE SHEET C1.2 FOR DETAILS. 22. 10"x10" CONCRETE OR POLYCARBONATE CATCH BASIN w/ 6" PVC OR SMOOTH WALL HDPE OUTLET PIPE. OUTLET INV. 14.45. SEE SHEET C1.2 FOR DETAILS. 23. MASONRY RETAINING WALL. SEE STRUCTURAL PLANS FOR DETAILS. 24. EXISTING 30' WIDE PUBLIC STORM DRAIN EASEMENT TO BE VACATED AT A LATER DATE. 25. EXISTING 10' WIDE PUBLIC UTILITY EASEMENT. 26. FLOOD PLAIN BOUNDARY. FINISHED FLOOR ELEVATION CERTIFICATE FOR BUILDING IN THE FLOOD PLAIN IS REQUIRED.

I, EDWARD MARTINEZ, PE, A REGISTERED NEW MEXICO PROFESSIONAL ENGINEER (NMPE #13731) HAVE REVIEWED THIS STORM DRAIN PLAN. I FIND THIS PLAN MEETS THE REQUIREMENTS AND INTENT OF THE LANDFILL CHARACTERIZATION AND MITIGATION DESIGN FOR HOMEWOOD SUITES, 5400 SAN ANTONIO DRIVE NE, DRIVE NE, ALBUQUERQUE, NEW MEXICO FEBRUARY 2017 BY ZIA ENGINEERING (STAMPED 2-15-2017) AND AS PREVIOUSLY APPROVED BY THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT.

EDWARD H. MARTINEZ, PE (NMPE #13731)

NEW ADDITION
FF=5219.50
FP=5219.00

EXISTING HOTEL
FF=5219.50

HOTEL ADDITION
FF=5219.50

PINO ARROYO

MATCH EXISTING GRADE

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END WALL

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	LEGAL DESCRIPTION
	TRACT A-3-A, J GROUP ADDITION
	PERMANENT BENCHMARK
	ACS STATION I-25-14, ELEVATION 5130.37 NAVD1988)
	DRAINAGE/SITE NOTES
1.	A PORTION OF THE SITE WAS PREVIOUSLY DEVELOPED AS AN HOTEL. THAT USE WILL CONTINUE AND THE FACILITY WILL BE EXPANDED INTO AN EXISTING PARKING AREA AND EXISTING UNDEVELOPED LAND.
2.	THE NEWLY DEVELOPED AS WELL AS THE EXISTING RUNOFF WILL BE DIRECT DISCHARGED TO THE PINO ARROYO VIA IMPERMEABLE SURFACES. NO POND IS TO BE CONSTRUCTED ON THIS SITE DUE TO THE EXISTING WASTE LANDFILL ON THE SITE.
3.	EXISTING AND PROPOSED FLOW RATES WILL NOT BE TABULATED AND COMPARED. INCOMING FLOW RATES (SHOWN ON THE AS-BUILT PLANS) IN THE STORM DRAIN WILL BE USED TO ESTABLISH GRADES AND PIPE SIZES OF THE NEW PORTION OF THE STORM DRAIN. DESIGN FLOW RATE, VELOCITY, WATER SURFACE AND HGL WILL BE SHOWN ON THE CITY APPROVED WORK ORDER PLANS.
4.	THE BULK OF THE SITE IS LOCATED IN AN AREA DESIGNATED 'ZONE X' PER FEMA FIRM MAP NO. 137H, DATED AUGUST, 2012. THE SOUTHERLY PORTION OF THE SITE IS LOCATED IN AN AREA DESIGNATED AO 3 FEET. CONSTRUCTION IN THAT AREA WILL DISPLACE 8,560 CUBIC FEET OF WATER.
5.	EXISTING TOPOGRAPHY FOR THE SITE WAS OBTAINED BY CONSTRUCTION SURVEY TECHNOLOGIES, INC. IN JUNE, 2015 AND HARRIS SURVEYING IN OCTOBER, 2017.

VICINITY MAP NO. E-18

I-25

SAN ANTONIO

SU-1

C-2

SITE

C-1

SU-1

SU-1 FOR C-1 USES

NORTHSIDE

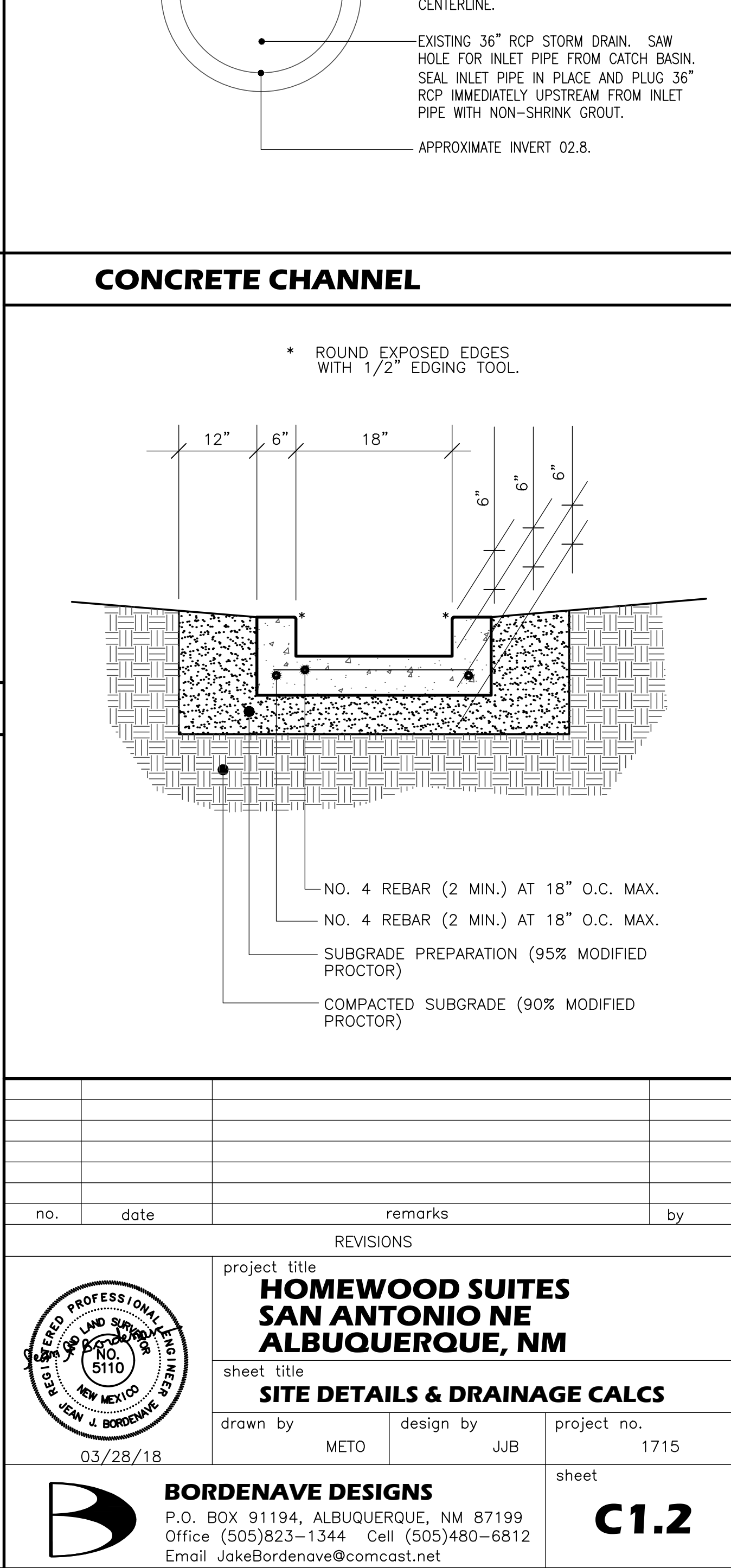
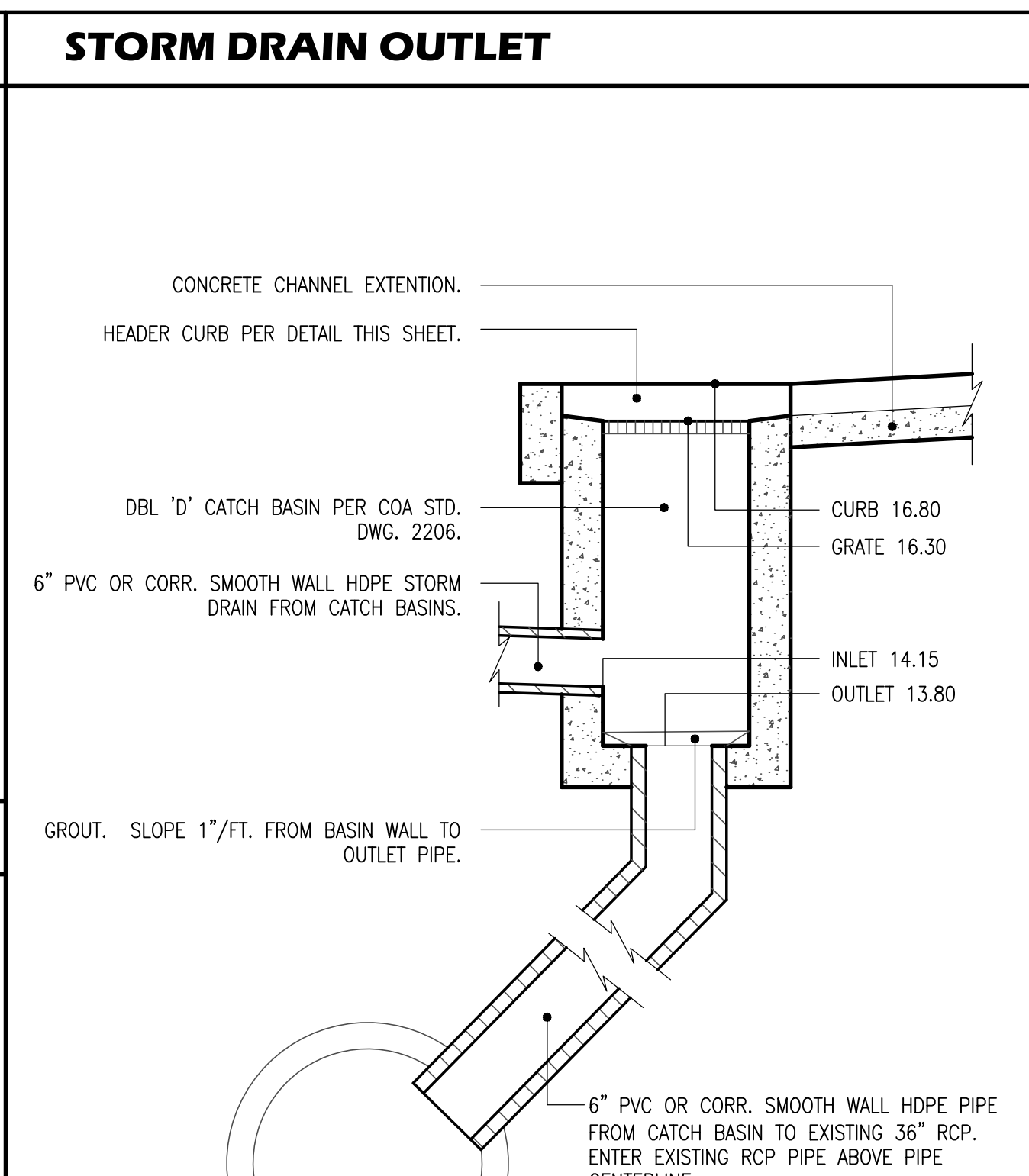
NEW

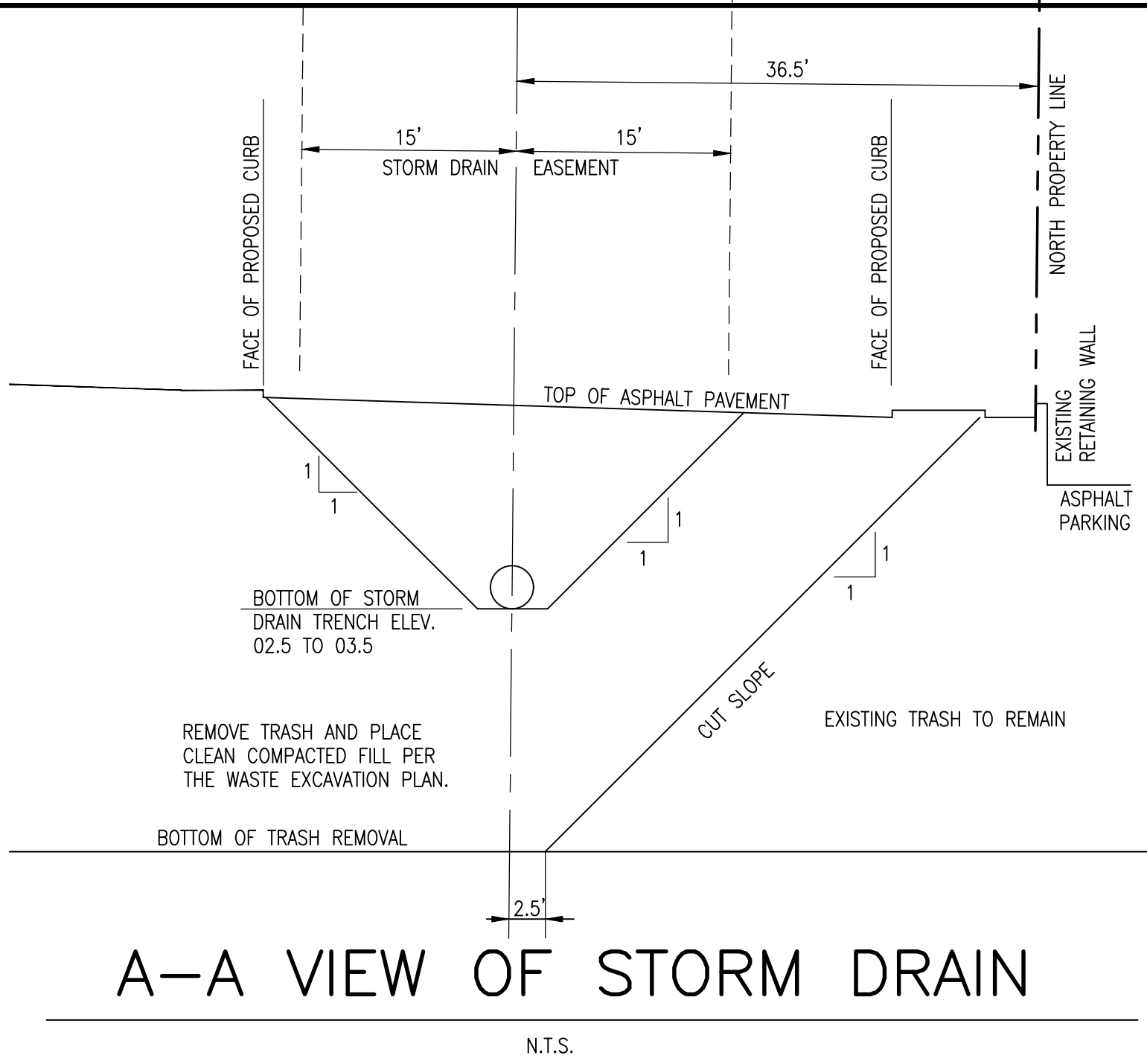
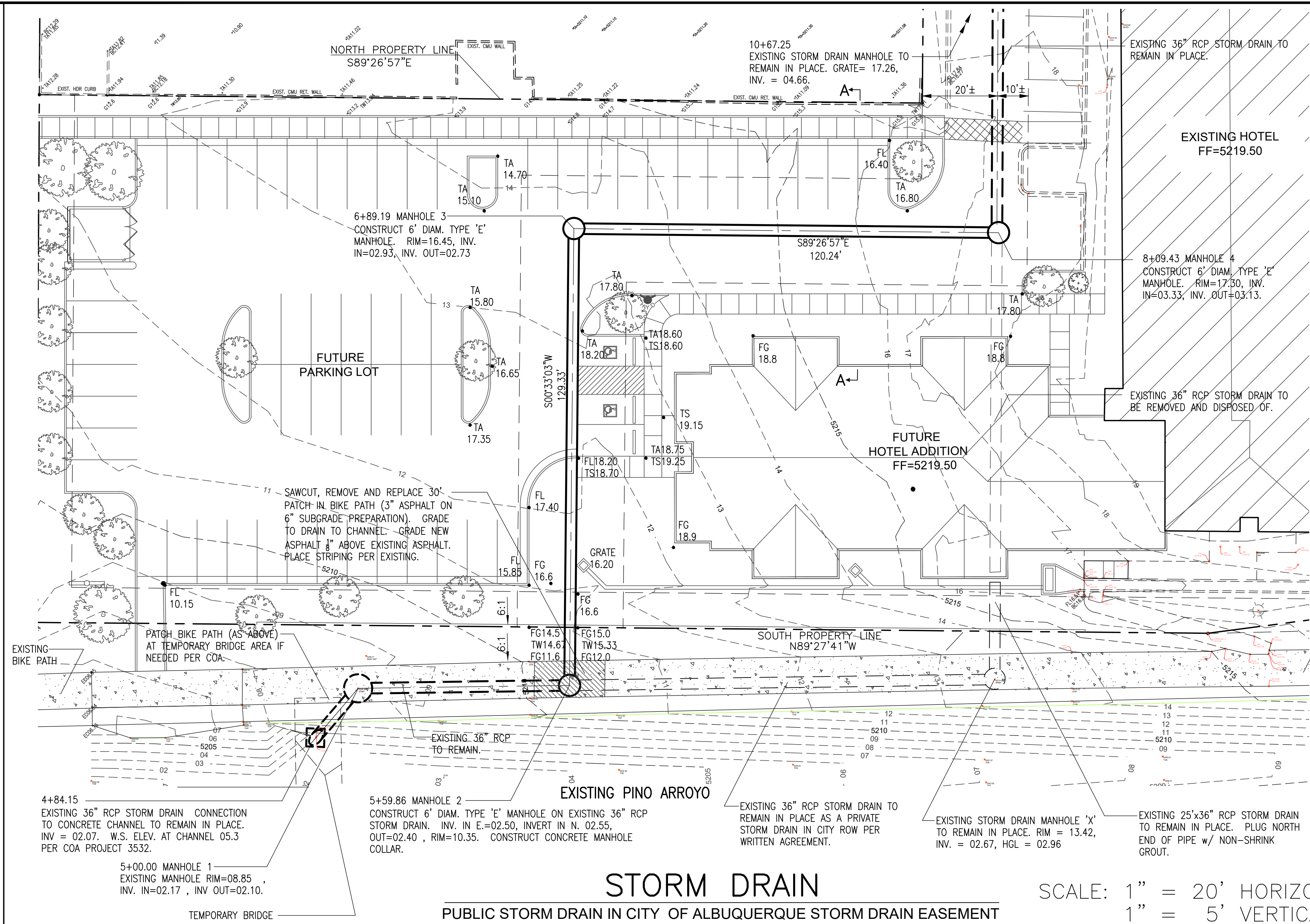
SU-1

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT THE NEW MEXICO ONE CALL SYSTEM AT 260-1990 FOR LOCATION OF EXISTING UTILITIES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE COUNTY OF BERNALILLO STANDARDS AND PROCEDURES.

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY THE CONSTRUCTION OF TEMPORARY SOIL BERM, OR SILT FENCES AT PROPERTY LINES AND WETTING SOIL TO PREVENT IT FROM BLOWING. IF THE SITE IS CONTROLLED BY A SWPPP PLAN, EROSION CONTROL SHALL BE ACCOMPLISHED ACCORDING TO THE PLAN.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. THE CONTRACTOR SHALL SECURE THE APPROPRIATE BARRICADING, TOP SOIL DISTURBANCE AND ACCESS PERMITS FROM THE COUNTY PRIOR TO BEGINNING CONSTRUCTION.

C1.1





NOTE:
ITEM NO. 13 IS AN EXISTING PUBLIC STORM DRAIN. PER AN AGREEMENT AND COVENANT BETWEEN THE CITY OF ALBUQUERQUE AND THE OWNER OF THE ADJOINING PROPERTY THE STORM DRAIN EAST OF MANHOLE (ITEM NO. 16a) IS NOW A PRIVATE FACILITY ON PUBLIC PROPERTY PER A DOCUMENT FILED IN THE PUBLIC RECORDS AS DOCUMENT _____, FILED _____.

NOTE:
THE EXISTING PUBLIC STORM DRAIN THROUGH THIS SITE MUST REMAIN FUNCTIONAL AT ALL TIMES. TEMPORARY DIVERSION DITCHES WILL BE CONSTRUCTED AND MAINTAINED WHEN THE STORM DRAIN IS NOT IN SERVICE.

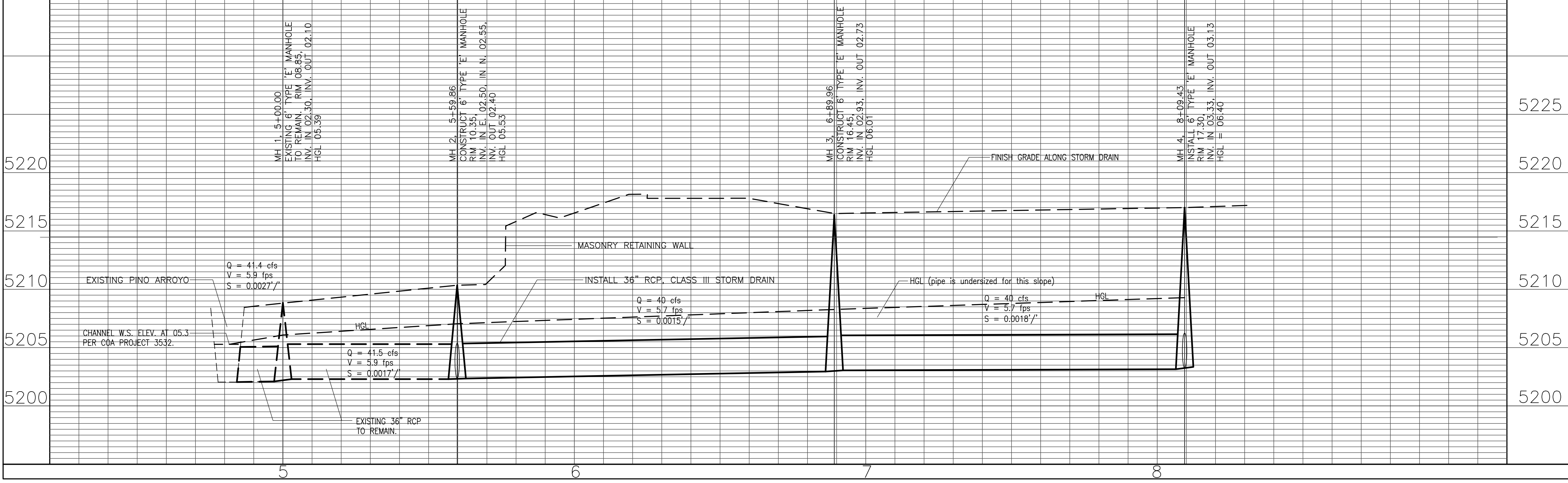
I, EDWARD MARTINEZ, PE, A REGISTERED NEW MEXICO PROFESSIONAL ENGINEER (NMPE #13731) HAVE REVIEWED THIS STORM DRAIN PLAN. I FIND THIS PLAN MEETS THE REQUIREMENTS AND INTENT OF THE LANDFILL CHARACTERIZATION AND MITIGATION DESIGN FOR HOMWOOD SUITES, 5400 SAN ANTONIO DRIVE NE, DRIVE NE, ALBUQUERQUE, NEW MEXICO FEBRUARY 2017 BY ZIA ENGINEERING (STAMPED 2-15-2017) AND AS PREVIOUSLY APPROVED BY THE CITY OF ALBUQUERQUE ENVIRONMENTAL HEALTH DEPARTMENT.

EDWARD H. MARTINEZ, PE (NMPE #13731)

TOPOGRAPHY LEGEND	
G	GROUND
FL	FLOWLINE
TA	TOP OF ASPHALT
TC	TOP OF CONCRETE
BC	TOP BACK OF CURB
TP	TOP OF EARTH PAD
TS	TOP OF SIDEWALK
TW	TOP OF WALL
FH	FIRE HYDRANT
WM	WATER METER
WV	WATER VALVE
CB	CATCH BASIN GRATE
WM	WATER METER
WV	WATER VALVE
MH	MANHOLE
CB	CATCH BASIN GRATE
GM	GAS MATER
GV	GAS VALVE
LP	LIGHT POLE
PP	POWER POLE
GW	GUY WIRE
PED	ELEC, TEL, CBL PEDESTAL

STORM DRAIN
PUBLIC STORM DRAIN IN CITY OF ALBUQUERQUE STORM DRAIN EASEMENT

SCALE: 1" = 20' HORIZONTAL
1" = 5' VERTICAL



CONSTRUCTION NOTES

- SEE SHEET 2 FOR PLAT DIMENSIONS.
- STATIONING IS ALONG THE CENTERLINE OF PIPE. OFFSETS ARE MEASURED PERPENDICULAR TO THE CENTER LINE.
- ALL UTILITY DIMENSIONS ARE MEASURED TO CENTER OF PIPE HORIZONTALLY AND EITHER TOP OF PIPE FOR PRESSURE FLOW LINES OR INVERT OF PIPE FOR GRAVITY FLOW LINES UNLESS OTHERWISE STATED.
- CITY OF ALBUQUERQUE STANDARD DRAWINGS
 - 2208 MANHOLE FRAME AND COVER
 - 2461 MANHOLE CONCRETE COLLAR
 - 2465 PAVEMENT CUTS FOR UTILITIES

CITY OF ALBUQUERQUE

TITLE
HOMWOOD SUITES
STORM DRAIN PLAN & PROFILE

DESIGN REVIEW	ENGINEER APPROVAL	MO/DAY/YEAR	MO/DAY/YEAR

AS BUILT INFORMATION	
CONTRACTOR	DATE
STAKED BY	DATE
INSPECTOR'S COMPLIANCE BY	DATE
FIELD VERIFICATION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	
BENCH MARKS	
ACS 7-R11	ELEV. 4920.195 (NAVD 88)
A 3 1/2" ALUMINUM DISK ON A PIPE NEXT TO A POWER POLE AT THE SOUTHWEST CORNER OF TORRES ROAD AND ISLETA BLVD.	
N=	1,454,112.863, E= 1,507,541.772
SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	
13-0783	HARRIS SURVEYING INC. 03/2014
ENGINEER'S SEAL	
03/28/18	

EXISTING STORM DRAIN SYSTEM

The existing system drains a group of catch basins on the north and south sides of San Antonio Drive due north of the HomeSuites Hotel. The existing system was constructed in 1989 and is composed of a 36” RCP and several manholes. The outlet of the storm drain is to the Pino Arroyo near the southwest corner of the Hotel site. The storm drain pierces a high area located between the San Antonio Dr. and the Pino Arroyo. It crosses an existing waste land fill that has been closed for a number of years. The land fill is approximately 35 deep.

The existing storm drain is a public facility located on the hotel site in a public easement.

PROPOSED STORM DRAIN SYSTEM

The proposed system will also be a 36” RCP with several manholes. The new system will be in a Z configuration and have one more manhole that the existing system which is in an L configuration. The length of the two systems are essentially the same. The new system departs from the existing system on the long leg of the L and returns to the existing system on the short leg of the L.

The hydraulics of the two systems are essentially identical as they use the same type of conduit, travel the same distance and have the same drop in elevation. The only difference being the new system has one additional manhole with it’s attendant losses albeit the losses are quite small due to the relatively flat grades and low velocities.

The existing waste material in the area under the storm drain is being removed full depth and backfilled with clean, compacted earth. Waste material is being hauled to an approved wasted disposal site and the backfill is being inspected and tested as the site is returned to grade.

STORM DRAIN CALCULATIONS

Due to the flat grade of the pipe the conduit velocity is small and resulting head losses in the manholes is low. Therefore the hydraulics will be analyzed by HY8 using the tailwater in each section as the headwater in the preceding section. The result will be a conservative estimate of the HGL.

ARROYO TO MANHOLE 1

Table 2 - Culvert Summary Table: Culvert 1

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5205.30	0.000	3.200	0-NF	0.000	0.000	3.000	3.230	0.000	0.000
4.15	4.15	5205.31	0.884	3.208	4-FFI	0.674	0.632	3.000	3.230	0.587	0.000
8.30	8.30	5205.33	1.246	3.234	4-FFI	0.970	0.904	3.000	3.230	1.174	0.000
12.45	12.45	5205.38	1.581	3.276	4-FFI	1.209	1.117	3.000	3.230	1.761	0.000
16.60	16.60	5205.43	1.871	3.335	4-FFI	1.425	1.300	3.000	3.230	2.348	0.000
20.75	20.75	5205.51	2.147	3.411	4-FFI	1.628	1.463	3.000	3.230	2.936	0.000
24.90	24.90	5205.60	2.400	3.503	4-FFI	1.829	1.606	3.000	3.230	3.523	0.000
29.05	29.05	5205.71	2.643	3.613	4-FFI	2.038	1.741	3.000	3.230	4.110	0.000
33.20	33.20	5205.84	2.884	3.739	4-FFI	2.269	1.867	3.000	3.230	4.697	0.000
37.35	37.35	5205.98	3.133	3.882	4-FFI	2.582	1.983	3.000	3.230	5.284	0.000
41.50	41.50	5206.14	3.395	4.042	4-FFI	3.000	2.096	3.000	3.230	5.871	0.000

Straight Culvert
Inlet Elevation (invert): 5202.10 ft, Outlet Elevation (invert): 5202.07 ft
Culvert Length: 12.00 ft, Culvert Slope: 0.0025

MANHOLE 1 TO MANHOLE 2

Table 2 - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5206.14	0.000	3.740	0-NF	0.000	0.000	3.000	3.970	0.000	0.000
4.15	4.15	5206.15	0.862	3.750	4-FFI	0.593	0.532	3.000	3.970	0.587	0.000
8.30	8.30	5206.18	1.244	3.779	4-FFI	0.848	0.904	3.000	3.970	1.174	0.000
12.45	12.45	5206.23	1.558	3.828	4-FFI	1.048	1.117	3.000	3.970	1.761	0.000
16.60	16.60	5206.30	1.869	3.897	4-FFI	1.224	1.300	3.000	3.970	2.348	0.000
20.75	20.75	5206.38	2.144	3.985	4-FFI	1.390	1.463	3.000	3.970	2.936	0.000
24.90	24.90	5206.49	2.397	4.093	4-FFI	1.546	1.606	3.000	3.970	3.523	0.000
29.05	29.05	5206.62	2.640	4.220	4-FFI	1.701	1.741	3.000	3.970	4.110	0.000
33.20	33.20	5206.77	2.881	4.367	4-FFI	1.855	1.867	3.000	3.970	4.697	0.000
37.35	37.35	5206.93	3.130	4.534	4-FFI	2.016	1.983	3.000	3.970	5.284	0.000
41.50	41.50	5207.12	3.393	4.720	4-FFI	2.181	2.096	3.000	3.970	5.871	0.000

Straight Culvert
Inlet Elevation (invert): 5202.40 ft, Outlet Elevation (invert): 5202.17 ft
Culvert Length: 54.00 ft, Culvert Slope: 0.0043

MANHOLE 2 TO MANHOLE 3

Table 2 - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5207.12	0.000	4.390	0-NF	0.000	0.000	3.000	4.570	0.000	0.000
4.00	4.00	5207.13	0.848	4.401	4-FFI	0.763	0.620	3.000	4.570	0.566	0.000
8.00	8.00	5207.16	1.224	4.435	4-FFI	1.103	0.887	3.000	4.570	1.132	0.000
12.00	12.00	5207.22	1.526	4.491	4-FFI	1.380	1.095	3.000	4.570	1.696	0.000
16.00	16.00	5207.30	1.831	4.569	4-FFI	1.636	1.275	3.000	4.570	2.264	0.000
20.00	20.00	5207.40	2.100	4.670	4-FFI	1.889	1.436	3.000	4.570	2.829	0.000
24.00	24.00	5207.52	2.348	4.793	4-FFI	2.159	1.577	3.000	4.570	3.395	0.000
28.00	28.00	5207.67	2.583	4.939	4-FFI	2.502	1.708	3.000	4.570	3.961	0.000
32.00	32.00	5207.84	2.815	5.107	4-FFI	3.000	1.832	3.000	4.570	4.527	0.000
36.00	36.00	5208.03	3.052	5.298	4-FFI	3.000	1.947	3.000	4.570	5.093	0.000
40.00	40.00	5208.24	3.300	5.511	4-FFI	3.000	2.057	3.000	4.570	5.659	0.000

Straight Culvert
Inlet Elevation (invert): 5202.73 ft, Outlet Elevation (invert): 5202.55 ft
Culvert Length: 123.00 ft, Culvert Slope: 0.0015

MANHOLE 3 TO MANHOLE 4

Table 2 - Culvert Summary Table: Culvert 2

Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth (ft)	Outlet Control Depth (ft)	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
0.00	0.00	5208.24	0.000	4.910	0-NF	0.000	0.000	3.000	5.310	0.000	0.000
4.00	4.00	5208.25	0.847	4.921	4-FFI	0.509	0.620	3.000	5.310	0.566	0.000
8.00	8.00	5208.28	1.221	4.954	4-FFI	0.873	0.887	3.000	5.310	1.132	0.000
12.00	12.00	5208.34	1.523	5.008	4-FFI	1.085	1.095	3.000	5.310	1.696	0.000
16.00	16.00	5208.41	1.828	5.085	4-FFI	1.285	1.275	3.000	5.310	2.264	0.000
20.00	20.00	5208.51	2.097	5.183	4-FFI	1.439	1.436	3.000	5.310	2.829	0.000
24.00	24.00	5208.63	2.345	5.304	4-FFI	1.604	1.577	3.000	5.310	3.395	0.000
28.00	28.00	5208.78	2.580	5.446	4-FFI	1.768	1.708	3.000	5.310	3.961	0.000
32.00	32.00	5208.94	2.812	5.610	4-FFI	1.933	1.832	3.000	5.310	4.527	0.000
36.00	36.00	5209.13	3.049	5.796	4-FFI	2.108	1.947	3.000	5.310	5.093	0.000
40.00	40.00	5209.33	3.297	6.003	4-FFI	2.305	2.057	3.000	5.310	5.659	0.000

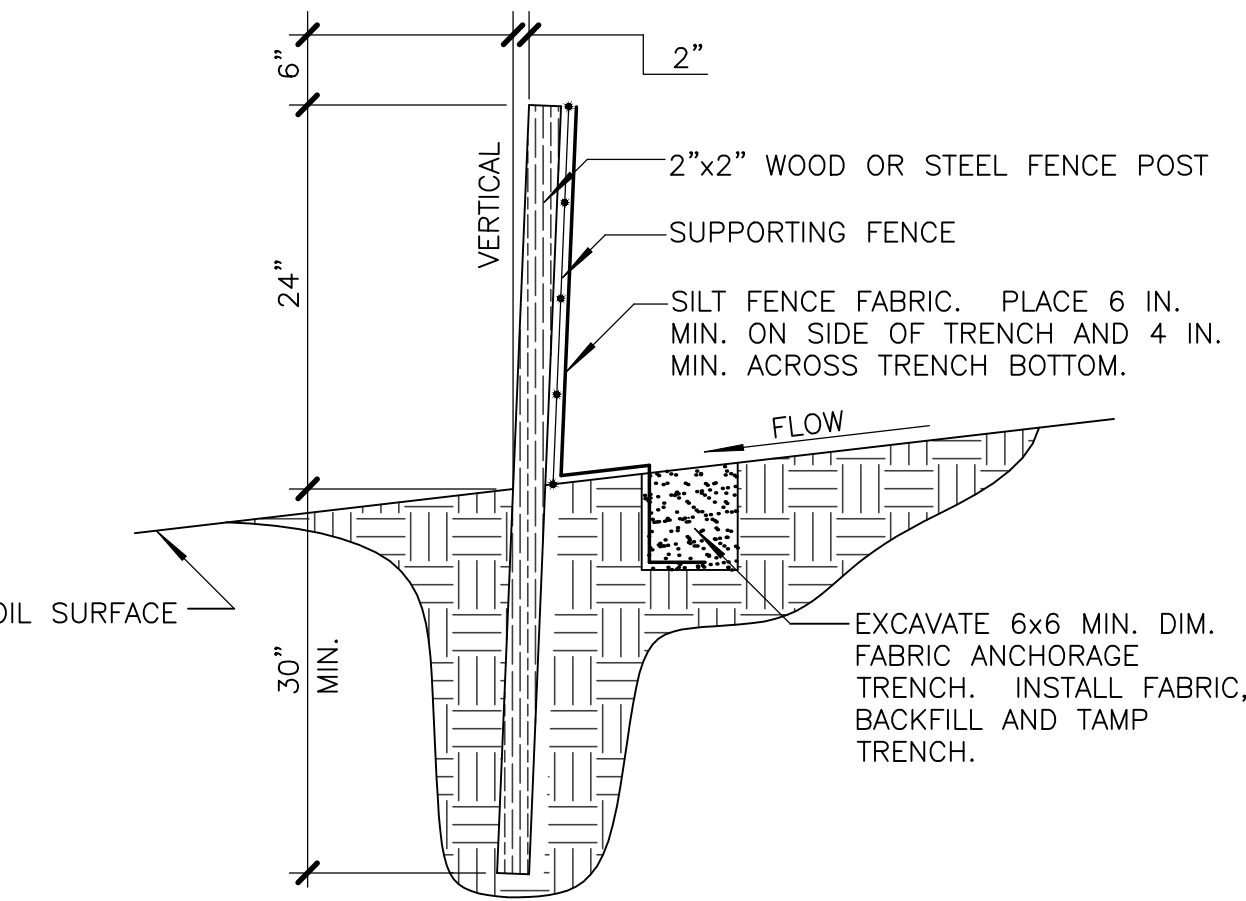
Straight Culvert
Inlet Elevation (invert): 5203.33 ft, Outlet Elevation (invert): 5202.93 ft
Culvert Length: 114.00 ft, Culvert Slope: 0.0035

AS BUILT INFORMATION	CONTRACTOR	DATE	BENCH MARKS	NO.	DATE	NO.	
	STAKED BY	DATE					
	INSPECTOR'S FIELD COMPLIANCE BY	DATE					
	VERIFICATION BY	DATE					
SURVEY INFORMATION	FIELD NOTES		ENGINEER'S SEAL	NO.	DATE	NO.	
	BY	DATE					
	NO.						
	DATE						
ENGINEER'S SEAL	REVISIONS		DESIGNED BY	DRAWN BY	CHECKED BY	DATE	
	DESIGN						
	BORDENAVE DESIGNS						
	METO						
JUB		JUB		JUB		JUB	



CITY OF ALBUQUERQUE			
TITLE HOMEWOOD SUITES HYDRAULIC CALCULATIONS			
DESIGN REVIEW		ENGINEER APPROVAL	
PROJECT NO. 735186		ZONE MAP NO. E-18	SHEET 4 OF 10

SILT FENCE



NOTES:

1. POST SPACING SHALL BE NO MORE THAN 10 FT. WITH A SUPPORTING FENCE AND NO MORE THAN 4 FEET WITHOUT A SUPPORTING FENCE.
2. SILT FENCE USED AS A SILT DAM IN CONCENTRATED FLOWS SHALL HAVE A SUPPORTING FENCE AND A POST SPACING OF NO MORE THAN 4 FT. SILT DAMS SHALL BE CLEANED ON A REGULAR BASIS.
3. POSTS FOR 4 FT. MAXIMUM POST SPACING SHALL BE 2 IN. SQUARE, OR HEAVIER, WOOD POSTS OR STANDARD I OR U SECTION POST WEIGHING NO LESS THAN 1.0 LB./FT. POSTS FOR 10 FT. MAXIMUM POST SPACING SHALL BE 4 IN. SQUARE, OR HEAVIER, WOOD POSTS OR STEEL POSTS AS SPECIFIED ABOVE.
4. SUPPORTING FENCE SHALL BE WIRE MESH (14 GA. MIN. WITH 2" MAX. OPENING SIZE).
5. SUPPORTING FENCE SHALL BE FASTENED SECURELY TO POSTS WITH STAPLES OR WIRE TIES. FILTER FABRIC SHALL BE FASTENED SECURELY TO SUPPORTING FENCE WITH WIRE TIES SPACED AT 24 IN. MAX. ALONG THE TOP AND MID-SECTION. WHEN A SUPPORTING FENCE IS NOT USED, FILTER FABRIC SHALL BE SECURELY FASTENED TO POSTS WITH STAPLES OR WIRE TIES.

GENERAL NOTES

1. WHEN DOING WORK IN THE CITY ROW, PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT DOES IS IN THE STREET, STREET SHOULD BE SWEEP AT THE END OF EACH DAY OR DURING THE DAY IF RAIN IS IMMINENT OR IF THE CONTRACTOR INTRODUCES WATER INTO THE STREET.
2. WHEN CUTTING THE STREET FOR UTILITIES THE EXCAVATED SOIL SHOULD BE PLACED ON THE UPHILL SIDE OF THE STREET CUT OR A WATTLE/FILTER SOCK PLACED AT THE TOE ON THE DOWNHILL SIDE OF THE CUT. THE CONTRACTOR SHALL SWEEP THE AREA AFTER THE CUT IS PAVED.
3. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES OR A J-HOOK SILT FENCE SHALL BE PLACED IN THE FRONT YARD SWALE.
4. WHEN INSTALLING BURIED UTILITIES BEHIND THE CURB THE EXCAVATED SOIL SHALL NOT BE PLACED IN THE STREET.
5. A SEDIMENT POND SHALL BE BUILT AT THE DOWNSTREAM END OF LONG STREETS WITH A LARGE WATTLE OR NUMEROUS SMALLER WATTLES PLACED AT THE POND SPILLWAY.
6. INSPECTION OF EROSION AND SEDIMENT CONTROL AND OTHER PROTECTIVE MEASURES ARE REQUIRED ONCE EVERY 14 DAYS AT A MINIMUM. THIS INSPECTION SHALL ALSO BE PERFORMED AFTER A PRECIPITATION EVENT OF 1/4 INCH OR GREATER. THESE INSPECTIONS SHALL BE CONTINUED UNTIL THE SITE IS CONSIDERED STABILIZED BY THE CITY. INSPECTION REPORTS ARE TO BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT CONSTRUCTION ACTIVITIES ON THE SITE.

KEYED NOTES

1. INSTALL NPDES SIGN. SIGN SHALL BE VISIBLE FROM THE SIDEWALK.
2. INSTALL SILT FENCE PER DETAIL THIS SHEET.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL THIS SHEET.
4. INSTALL WASHOUT AREA, PORTABLE TOILET AREA.
5. EQUIPMENT STAGING AND MATERIAL STORAGE AREA.
6. NO WATER HARVESTING POND WILL BE CONSTRUCTED ON THIS SITE.

CONSTRUCTION SITE

SAN ANTONIO DR. NE

GENERAL EROSION CONTROL NOTES

- SEE SWPPP PLAN FOR CONTRACTOR RESPONSIBLE FOR EACH CONTROL MEASURE LISTED AND BMP DETAILS.
1. ROUGH GRADING PHASE
INSTALL SILT FENCE, STABILIZED CONSTRUCTION SITE ENTRANCE, AND SEDIMENT PONDS WHERE PRACTICAL. INSTALL EROSION CONTROL MEASURES BEFORE ANY GRADING WHERE POSSIBLE. IF NOT POSSIBLE MEASURES SHALL BE INSTALLED CONCURRENT WITH MAJOR GRADING. APPLY WATER TO DISTURBED AREAS FOR SOIL STABILIZATION AS NECESSARY.
 2. BUILDING CONSTRUCTION & UTILITY INSTALLATION PHASE
MAINTAIN SOIL EROSION MEASURES DURING ENTIRE PHASE. APPLY WATER TO DISTURBED AREAS FOR SOIL STABILIZATION AS NECESSARY.
 3. FINAL STABILIZATION PHASE
INSTALL FINAL STRUCTURAL AND STABILIZATION CONTROLS PER APPROVED SITE WORK AND LANDSCAPING PLANS (REFERENCED BY SWPPP).

SITE SPECIFIC CONTROL NOTES

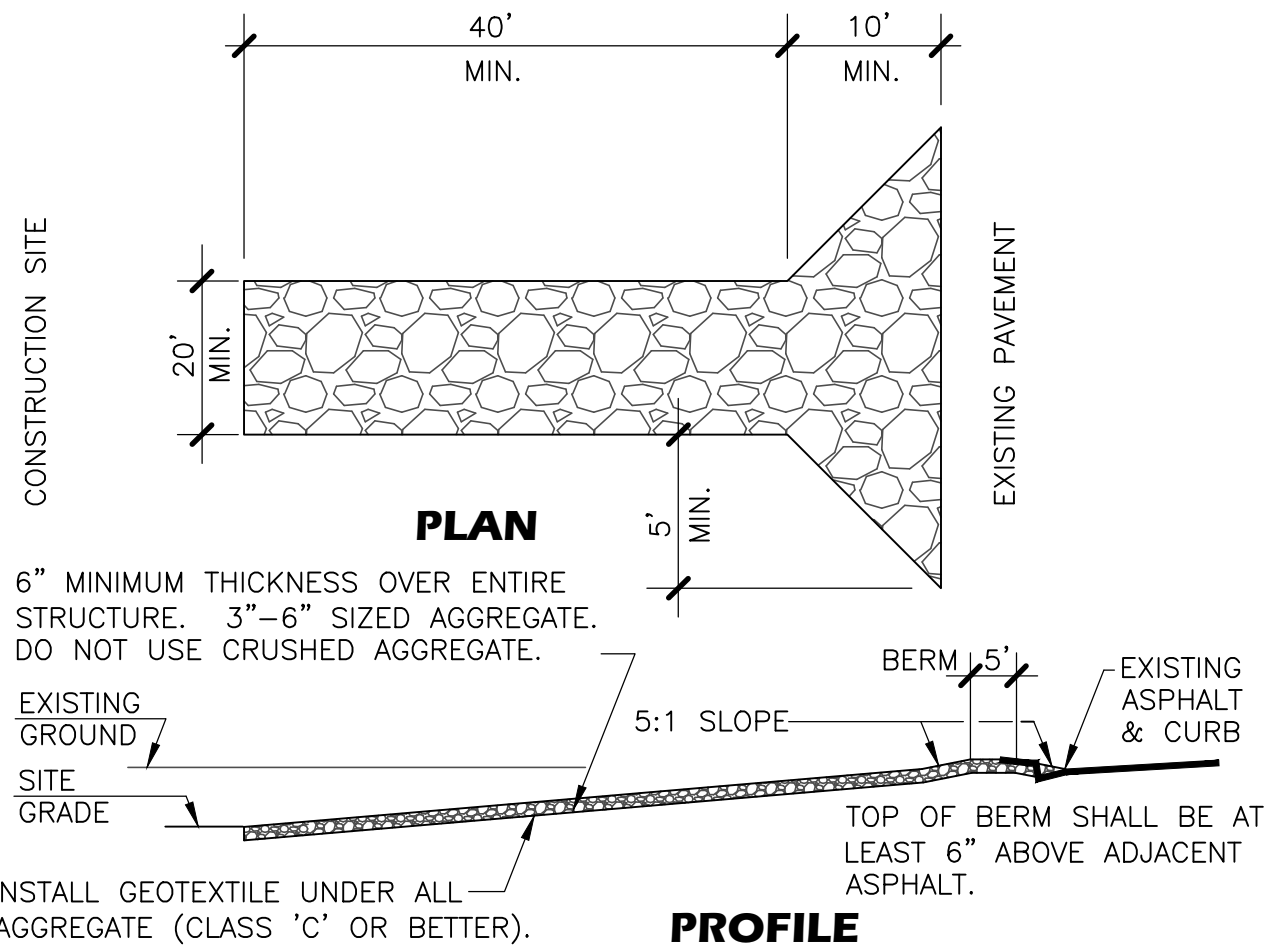
DURING CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE REQUIRED BETWEEN PAVED/UNPAVED ROADWAYS.
2. INSTALL SILT FENCE AT INITIAL GRADING FOR TEMPORARY EROSION CONTROL. SILT FENCE MAY BE ATTACHED TO CONSTRUCTION SECURITY FENCING FOR ADDITIONAL STABILITY WHERE NECESSARY.
3. DISTURBED EARTH SURFACES SHALL BE WATERED AS NECESSARY FOR TEMPORARY STABILIZATION AND DUST CONTROL.
4. MATERIAL'S STORAGE AND EQUIPMENT STAGING AREAS MAY BE RELOCATED BASED ON CONTRACTOR PREFERENCE AND CHANGING CONDITIONS ON THE JOB SITE.
5. LOCATIONS OF TRASH, PORTA-LETS AND CONCRETE WASH-OUT PITS TO BE RED LINED ON THIS DRAWING AND A PROTECTED COPY OF SAME SHALL BE AFFIXED TO THE SITE SIGN BOARD CONTAINING SWPPP INFORMATION.
6. THERE IS NO DIRECT DISCHARGE FOR THIS SITE TO WATERS OF THE U.S. OR LISTED WETLANDS.
7. SOILS ARE BEING HAULED TO OR BORROWED FROM AN OFFSITE LOCATION.

AFTER CONSTRUCTION

1. REFER TO APPROVED CONSTRUCTION DRAWINGS FOR FINAL STRUCTURAL CONTROLS INCLUDING SIDEWALKS, DRIVEWAYS, PARKING AREAS, RUNDOWNS, DRAINAGEWAYS AND PONDS.
- 1 REFER TO APPROVED LANDSCAPING DRAWINGS FOR FINAL STABILIZATION OF PERVIOUS DISTURBED AREAS.

STABILIZED CONSTRUCTION ENTRANCE



VICINITY MAP NO. E-18

I-25



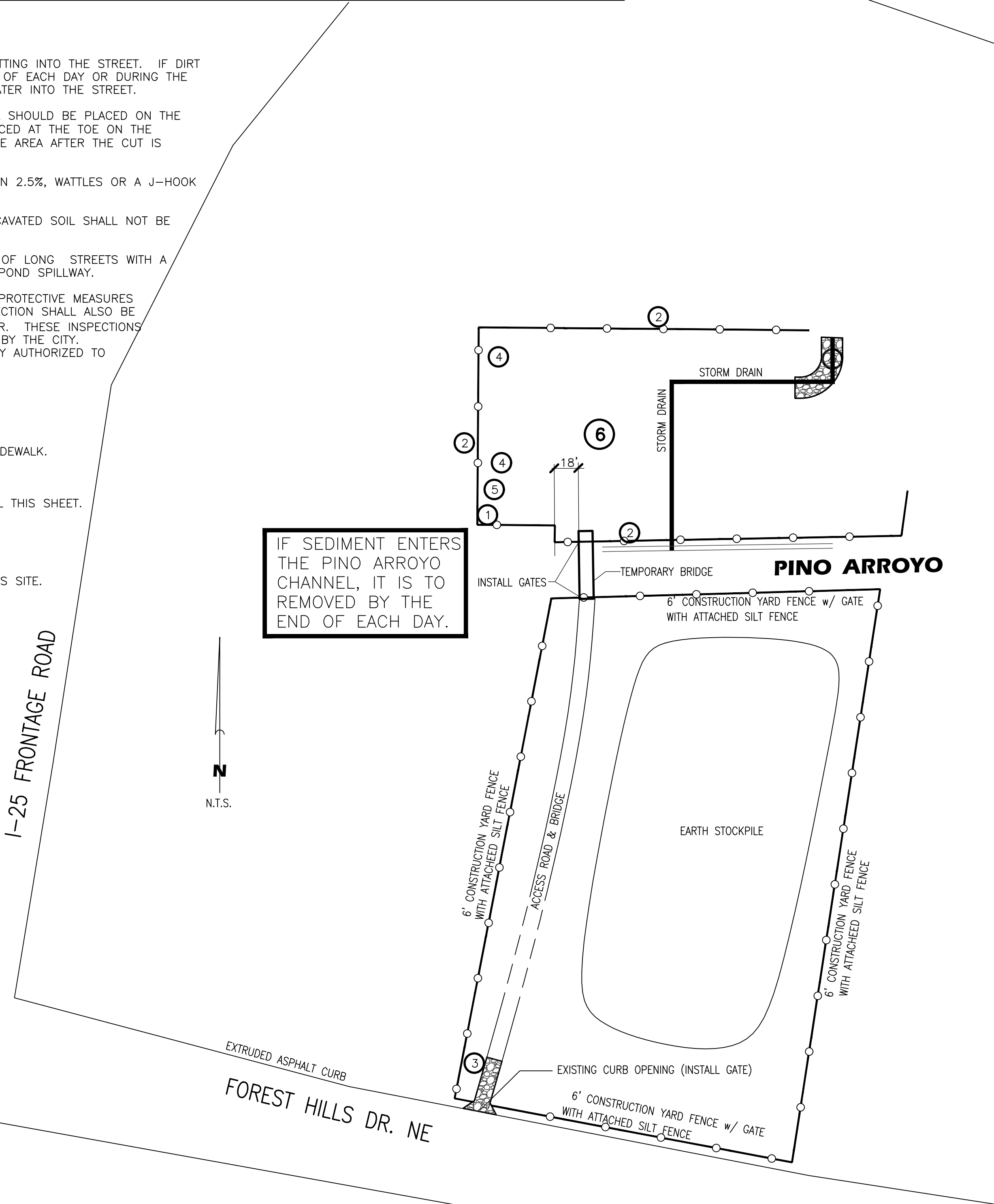
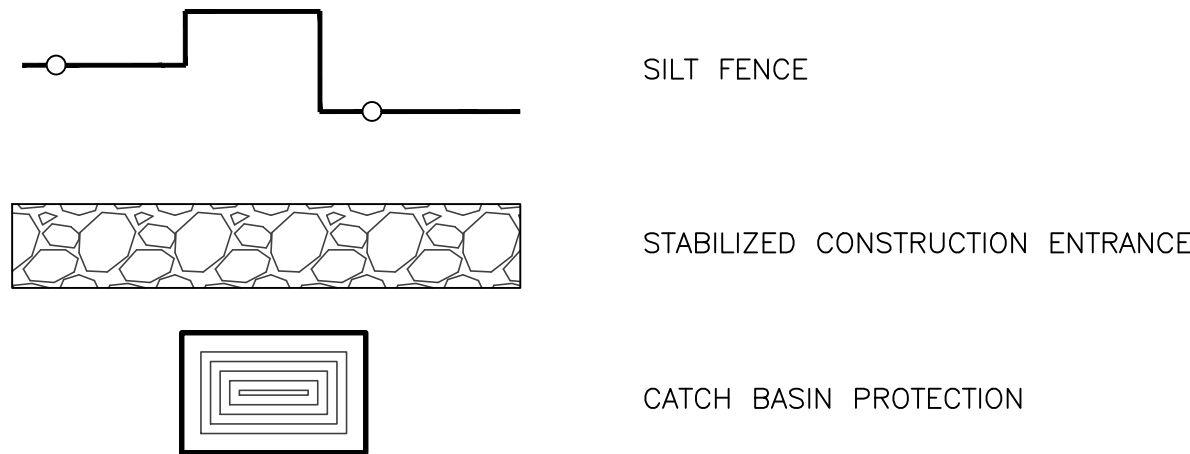
SAN ANTONIO

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXECUTING ALL APPLICABLE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS. THOSE REQUIREMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, OBTAINING AN NPDES PERMIT PRIOR TO ANY CONSTRUCTION, FILING THE NOTICE OF INTENT (NOI) AND THE NOTICE OF TERMINATION (NOT) APPLICATIONS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION AND INSPECTION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDING THE FILING OF THE INSPECTION REPORTS.
 2. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES.
 3. THE CONTRACTOR SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL DUST AND EROSION CONTROL REGULATIONS. THE CONTRACTOR PREPARE APPLICATIONS FOR AND OBTAIN ANY NECESSARY DUST OR EROSION CONTROL PERMITS FROM THE APPLICABLE REGULATORY AGENCIES.
 4. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING SURFACE AND SUBSURFACE WATER. CONTACT WITH SURFACE AND SUBSURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
 5. WHERE PRIVATE STORM DRAIN INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM, OR DUE TO, CONSTRUCTION ACTIVITIES, PROTECTION FROM SAID INFLOW SHALL BE PROVIDED UTILIZING BEST MANAGEMENT PRACTICES (BMPs) IDENTIFIED IN THE APPROVED SWPPP.
- NO OFFSITE STORM DRAIN INLETS SHALL BE BLOCKED. ONLY ONSITE/PROPOSED STORM DRAIN INLETS CAN BE BLOCKED DURING CONSTRUCTION.
6. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE IT SHALL BE REMOVED FROM THE ADJACENT PROPERTY OR RIGHT-OF-WAY AT THE TIME OF OCCURRENCE. IN ADDITION, THE CONTRACTOR SHALL MAINTAIN A REGIMEN OF STREET SWEEPING AND GENERAL CLEAN-UP MEASURES.
 7. ANY AREAS DISTURBED BY CONSTRUCTION AND NOT TO BE COVERED BY DESIGNED LANDSCAPING OR IMPERVIOUS SURFACES SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. UNLESS INDICATED OTHERWISE ON THESE PLANS OR ON THE LANDSCAPING PLAN, NATIVE GRASS SEEDING SHALL BE CLASS 'A' SEEDING PER SECTION 1012 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHAPTER, LATEST EDITION.
- WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, SURFACE STABILIZATION MEASURES, AS DEFINED ON THE SWPPP, MUST BE INITIATED.
8. ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING, BUT NOT LIMITED TO, ITEMS RESULTING FROM DEMOLITION, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, DIESEL, TIRES, ETC.), GARBAGE, DEBRIS FROM GRUBBING AND EXCESS CUT MATERIAL SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE PROPER PERMITS TO HAUL AND DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE IS PROPERLY PERMITTED PER LOCAL, STATE AND FEDERAL REGULATIONS TO ACCEPT THE WASTE BEING DISPOSED OF.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPORTING AND CLEAN-UP OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS ARE THOSE WHICH MAY BE A THREAT TO THE ENVIRONMENT, INCLUDING, BUT NOT LIMITED TO, GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS AND PAINTS. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.

BMP LEGEND



OVERALL CONSTRUCTION SITE

no.	date	remarks	by
REVISIONS			
project title		HOMESTEAD SUITES SAN ANTONIO NE ALBUQUERQUE, NM	
sheet title		EROSION & SEDIMENT CONTROL	
drawn by	design by	project no.	
METO	JJB	1715	
03/28/18		sheet	of
BORDENAVE DESIGNS		5 10	
P.O. BOX 91194, ALBUQUERQUE, NM 87199			