

# CITY OF ALBUQUERQUE

*Planning Department*  
David Campbell, Director



*Mayor Timothy M. Keller*

July 3, 2019

John Nourzad, P.E.  
GreenbergFarrow  
3 Executive Drive, Suite 150  
Somerset, NJ 08873

**RE: Murphy Express – Wyoming  
1358 Wyoming Blvd  
Temporary C.O. - Accepted  
Engineer's Certification Dated 07/01/19  
Engineer's Stamp Date: 01/12/18  
Hydrology File: J20D037**

PO Box 1293

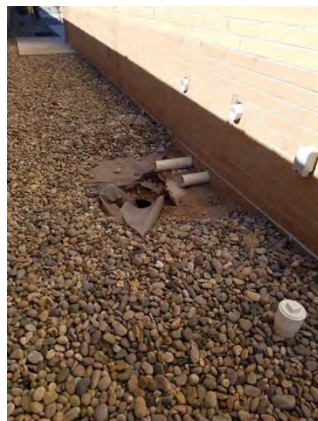
Dear Mr. Nourzad:

Albuquerque

Based on the Certification received 07/02/2019 and site visit on 07/03/19, this certification is approved in support of Temporary Release of Occupancy by Hydrology. The following comment needs to be addressed prior to acceptance for Permanent C.O. of the above referenced project:

NM 87103

1. Please install the drain cover and finish the landscape rocks at the rear of the building.



[www.cabq.gov](http://www.cabq.gov)

# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

- Please finish installing the landscape rocks within the pond to stop erosion which is currently evident from the recent rainfall.



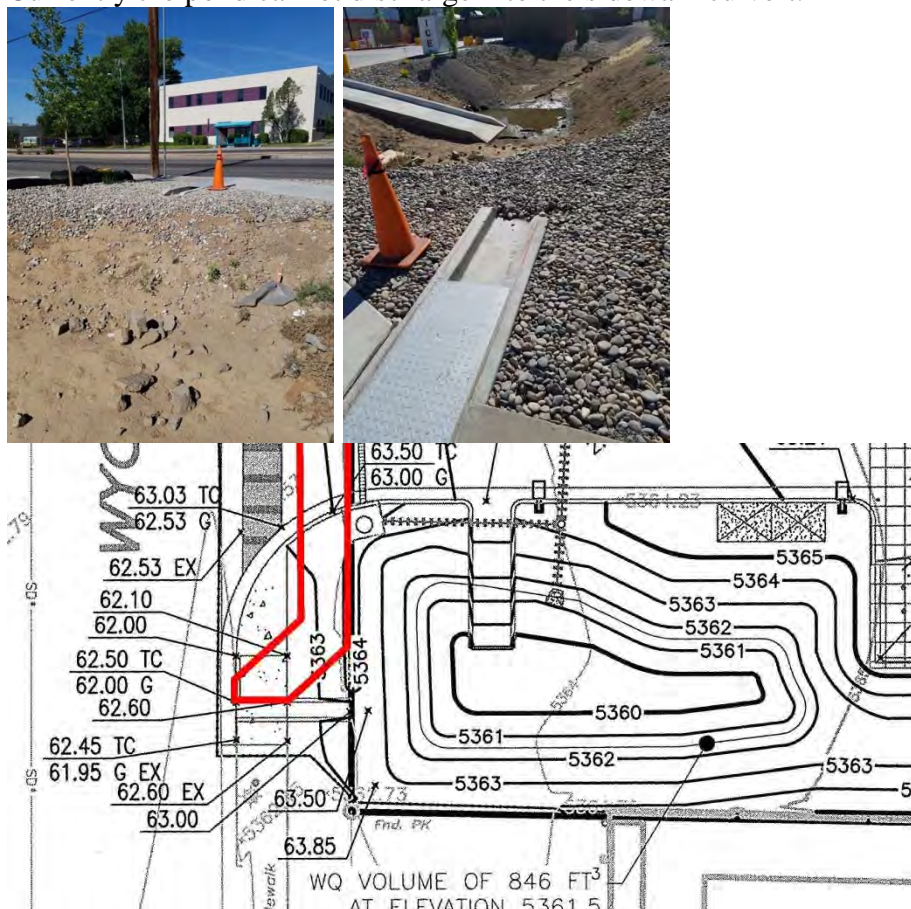
- The pond also needs to be reshaped at the outfall sidewalk culvert per the approved plans. Currently the pond cannot discharge into the sidewalk culvert.

PO Box 1293

Albuquerque

NM 87103

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4. Also Code Enforcement is requiring a fence around the pond for safety. This fence needs to be installed.
5. Also Street Maintenance needs to approve the sidewalk culvert. I have contacted them to review this and let me know if it passes.
6. Finally, the work order needs to be closed out on the Alley.

Please resubmit for a request for permanent release of Certificate of Occupancy once all of these items have been fixed. A resubmittal fee of \$150 will be required.

If you have any questions, please contact me at 924-3995 or [rbrissette@cabq.gov](mailto:rbrissette@cabq.gov).

Sincerely,

*Renée C. Brissette*

PO Box 1293

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

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** Murphy Express-Wyoming **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** J20D037  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** CPN771580  
**Legal Description:** TRACT A, BLOCK 8, MESA VILLAGE, VOL. B3, FOLIO 41 AND PORTION OF TRACT B, BLOCK 8, MESA VILLAGE, VOL. B3, FOLIO 41  
**City Address:** 1358 Wyoming Blvd. NE, Albuquerque, NM 87112-5069

**Applicant:** GreenbergFarrow (Engineer) **Contact:** Charles Beadles  
**Address:** 1430 W. Peachtree St. NW, Ste. 200, Atlanta, GA 30309  
**Phone#:** 770-712-8093 **Fax#:** \_\_\_\_\_ **E-mail:** cbeadles@greenbergfarrow.com

**Other Contact:** \_\_\_\_\_ **Contact:** \_\_\_\_\_  
**Address:** \_\_\_\_\_  
**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**TYPE OF DEVELOPMENT:** \_\_\_\_\_ PLAT (# of lots) \_\_\_\_\_ RESIDENCE \_\_\_\_\_ DRB SITE \_\_\_\_\_ ADMIN SITE

IS THIS A RESUBMITTAL? \_\_\_\_\_ Yes \_\_\_\_\_ ☒ No

**DEPARTMENT** ☒ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

### 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?

### TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☒ CERTIFICATE OF OCCUPANCY (TEMPORARY)
- ☐ 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) \_\_\_\_\_

**DATE SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_





1430 West Peachtree Street, NW  
Suite 200  
Atlanta, GA 30309  
404.601.4000  
www.greenbergfarrow.com  
We Are Global

July 1, 2019

To Renee Brissette  
City of Albuquerque

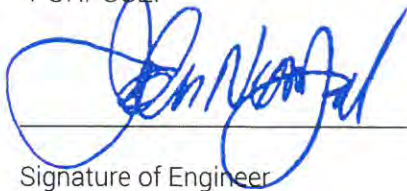
Project Murphy Oil - Albuquerque, NM  
Project # 20161221.0  
Re Hydrology Certification

#### HYDROLOGY CERTIFICATION

I, John Nourzad, NMPE 19062, OF THE FIRM GreenbergFarrow, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/04/18. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Donna Clark OF THE FIRM JMD Construction. I FURTHER CERTIFY THAT I HAVE REVIEWED SITE PICTURES OF THE PROJECT SITE ON 7/1/19 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE INFORMATION PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR TEMPORARY CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED.

TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.



Signature of Engineer

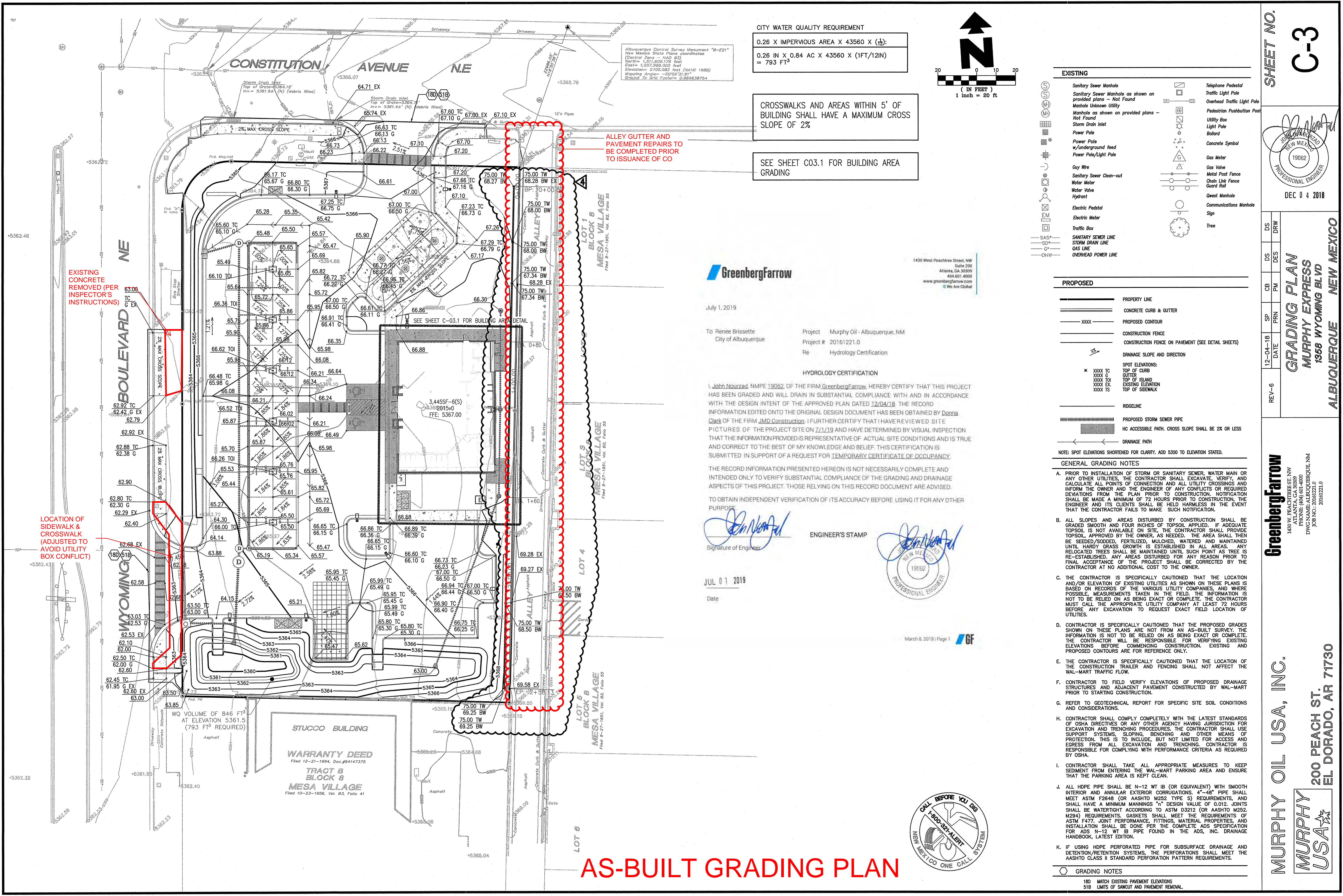
ENGINEER'S STAMP



JUL 01 2019

Date





AS-BUILT GRADING PLAN

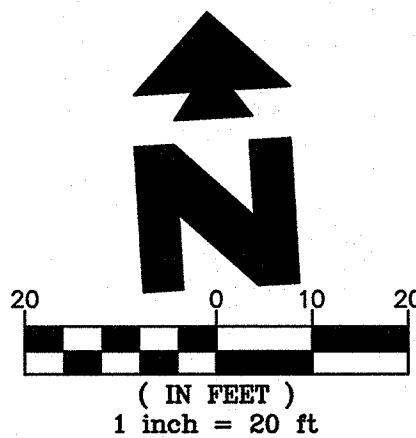
CITY WATER QUALITY REQUIREMENT

0.26 X IMPERVIOUS AREA X 43560 X (1/12):  
0.26 IN X 0.84 AC X 43560 X (1/12IN)  
= 793 FT<sup>3</sup>

CROSSWALKS AND AREAS WITHIN 5' OF BUILDING SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%

SEE SHEET C03.1 FOR BUILDING AREA GRADING

ALLEY GUTTER AND PAVEMENT REPAIRS TO BE COMPLETED PRIOR TO ISSUANCE OF CO



July 1, 2019

To: Renee Brissette  
City of Albuquerque

Project: Murphy Oil - Albuquerque, NM  
Project #: 20161221.0  
Re: Hydrology Certification

HYDROLOGY CERTIFICATION

I, John Nourzad, NMPE 19062, OF THE FIRM GreenbergFarrow, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12/04/18. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Donna Clark OF THE FIRM JMD Construction. I FURTHER CERTIFY THAT I HAVE REVIEWED SITE PICTURES OF THE PROJECT SITE ON 7/1/19 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE INFORMATION PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR TEMPORARY CERTIFICATE OF OCCUPANCY.

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TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Signature of Engineer: [Signature]

ENGINEER'S STAMP



JUL 01 2019

Date

March 8, 2019 | Page 1



EXISTING

- Sanitary Sewer Manhole
- Sanitary Sewer Manhole as shown on provided plans - Not Found
- Manhole Unknown Utility
- Manhole as shown on provided plans - Not Found
- Storm Drain Inlet
- Power Pole
- Power Pole w/underground feed
- Power Pole/Light Pole
- Guy Wire
- Sanitary Sewer Clean-out
- Water Meter
- Water Valve
- Hydrant
- Electric Pedestal
- Electric Meter
- Traffic Box
- SANITARY SEWER LINE
- CUTTER
- STORM DRAIN LINE
- GAS LINE
- OVERHEAD POWER LINE
- Telephone Pedestal
- Traffic Light Pole
- Overhead Traffic Light Pole
- Pedestrian Pushbutton Post
- Utility Box
- Light Pole
- Ballard
- Concrete Symbol
- Gas Meter
- Gas Valve
- Metal Post Fence
- Chain Link Fence
- Guard Rail
- Quest Manhole
- Communications Manhole
- Sign
- Tree

PROPOSED

- PROPERTY LINE
- CONCRETE CURB & GUTTER
- PROPOSED CONTOUR
- CONSTRUCTION FENCE
- CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS)
- DRAINAGE SLOPE AND DIRECTION
- SPOT ELEVATIONS:
  - XXXX TC TOP OF CURB
  - XXXX TO TOP OF ISLAND
  - XXXX EX EXISTING ELEVATION
  - XXXX TS TOP OF SIDEWALK
- RIDGELINE
- PROPOSED STORM SEWER PIPE
- HC ACCESSIBLE PATH. CROSS SLOPE SHALL BE 2% OR LESS
- DRAINAGE PATH

NOTE: SPOT ELEVATIONS SHORTENED FOR CLARITY. ADD 5300 TO ELEVATION STATED.

GENERAL GRADING NOTES

- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED/SODDED, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE PROPOSED GRADES SHOWN ON THESE PLANS ARE NOT FROM AN AS-BUILT SURVEY. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS BEFORE COMMENCING CONSTRUCTION. EXISTING AND PROPOSED CONTOURS ARE FOR REFERENCE ONLY.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION OF THE CONSTRUCTION TRAILER AND FENCING SHALL NOT AFFECT THE WAL-MART TRAFFIC FLOW.
- CONTRACTOR TO FIELD VERIFY ELEVATIONS OF PROPOSED DRAINAGE STRUCTURES AND ADJACENT PAVEMENT CONSTRUCTED BY WAL-MART PRIOR TO STARTING CONSTRUCTION.
- REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO KEEP SEDIMENT FROM ENTERING THE WAL-MART PARKING AREA AND ENSURE THAT THE PARKING AREA IS KEPT CLEAN.
- ALL HDPE PIPE SHALL BE N-12 WT IB (OR EQUIVALENT) WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4"-48" PIPE SHALL MEET ASTM F2848 (OR AASHTO M252 TYPE S) REQUIREMENTS, AND SHALL HAVE A MINIMUM MANNINGS "n" DESIGN VALUE OF 0.012. JOINTS SHALL BE WATERTIGHT ACCORDING TO ASTM D3212 (OR AASHTO M252, M294) REQUIREMENTS. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES, AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATION FOR ADS N-12 WT IB PIPE FOUND IN THE ADS, INC. DRAINAGE HANDBOOK, LATEST EDITION.
- IF USING HDPE PERFORATED PIPE FOR SUBSURFACE DRAINAGE AND DETENTION/RETENTION SYSTEMS, THE PERFORATIONS SHALL MEET THE AASHTO CLASS II STANDARD PERFORATION PATTERN REQUIREMENTS.

GRADING NOTES

- 180 MATCH EXISTING PAVEMENT ELEVATIONS
- 518 LIMITS OF SAWCUT AND PAVEMENT REMOVAL

SHEET NO. C-3

19062

DEC 04 2018

GRADING PLAN

MURPHY EXPRESS

1358 WYOMING BLVD

ALBUQUERQUE NEW MEXICO

GreenbergFarrow

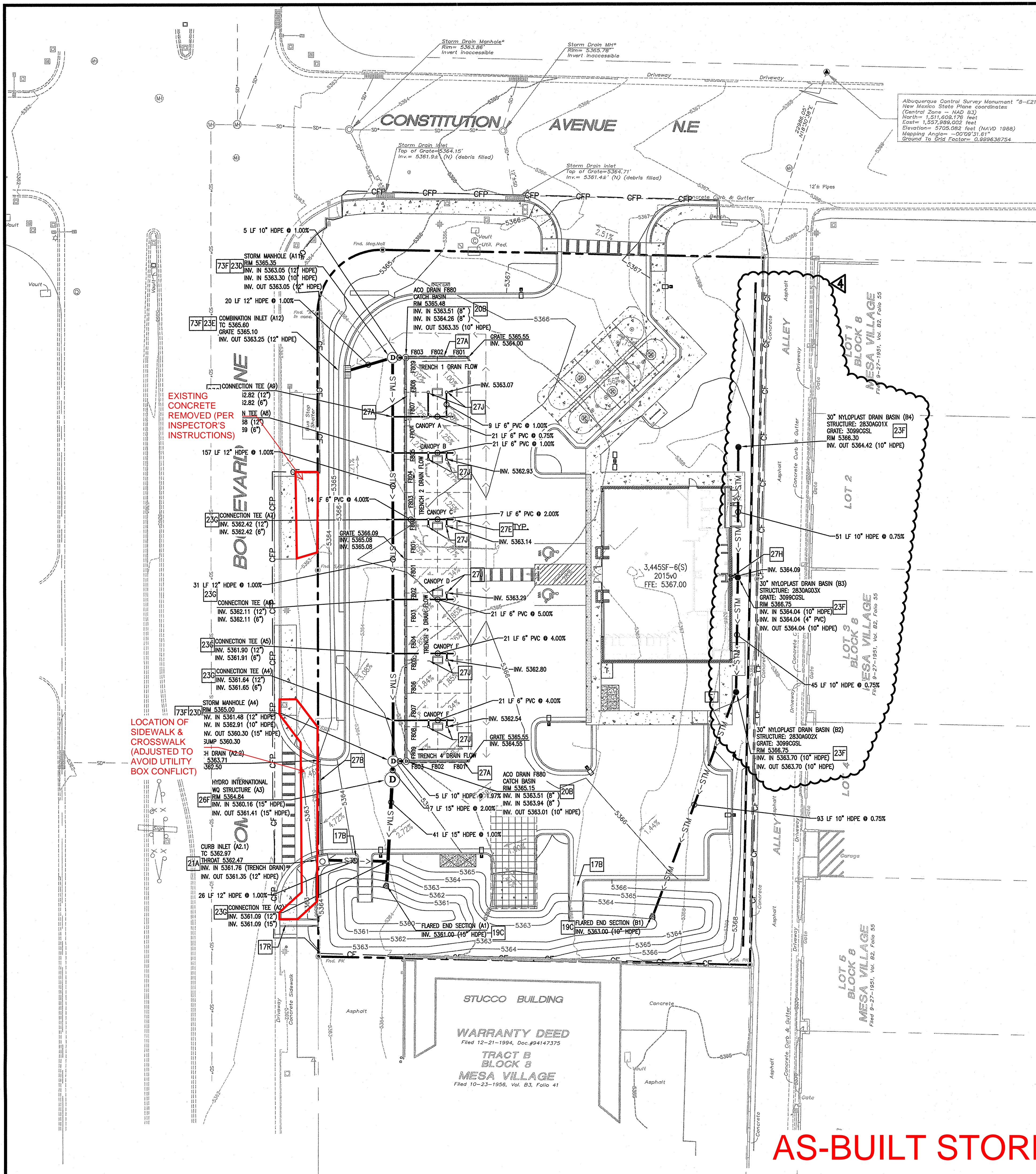
1430 W PEACHTREE ST. NW  
ATLANTA, GA 30309  
PHONE: (404) 601-4000  
DWG NAME: ALBUQUERQUE, NM  
JOB NO.: 20161221.0

MURPHY OIL USA, INC.

200 PEACH ST.  
EL DORADO, AR 71730

MURPHY USA





CITY WATER QUALITY REQUIREMENT

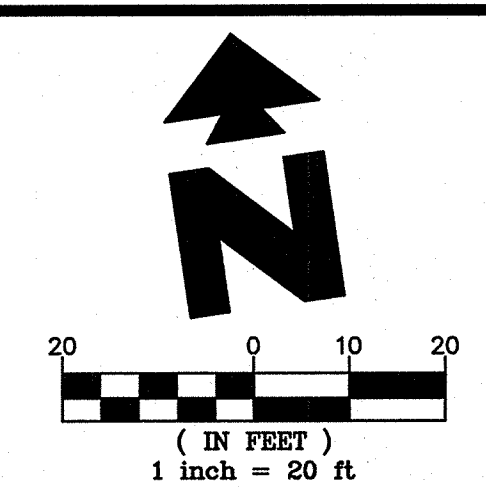
0.26 X IMPERVIOUS AREA X 43560 X (1/8):
0.26 IN X 0.84 AC X 43560 X (1FT/12IN)
= 793 FT <sup>3</sup>

POST-DEV LAND USE

IMPERVIOUS AREA	0.72 AC
PERVIOUS AREA	0.36 AC
TOTAL AREA	1.08 AC

THIS PROPERTY IS NOT LOCATED WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP # 35001C0356H, COMMUNITY PANEL NUMBER 356 OF 825 DATED AUGUST 16, 2012.

SEE SHEETS C03.3 AND C03.4 FOR STORM PROFILES AND CROSSINGS



EXISTING

Sanitary Sewer Manhole	Telephone Pedestal
Sanitary Sewer Manhole as shown on provided plans - Not Found	Traffic Light Pole
Manhole Unknown Utility	Overhead Traffic Light Pole
Manhole as shown on provided plans - Not Found	Pedestrian Pushbutton Post
Storm Drain Inlet	Utility Box
Power Pole	Light Pole
Power Pole w/underground feed	Bollard
Power Pole/Light Pole	Concrete Symbol
Guy Wire	Gas Meter
Sanitary Sewer Clean-out	Gas Valve
Water Meter	Metal Post Fence
Water Valve	Quarry Rail
Hydrant	Overhead Manhole
Electric Pedestal	Communications Manhole
Electric Meter	Sign
Traffic Box	Tree
SANITARY SEWER LINE	
STORM DRAIN LINE	
GAS LINE	
OVERHEAD POWER LINE	

PROPOSED

PROPERTY LINE
PROPOSED CURB AND GUTTER
PROPOSED CONTOUR
CONSTRUCTION FENCE
CONSTRUCTION FENCE ON PAVEMENT (SEE DETAIL SHEETS)
DRAINAGE SLOPE AND DIRECTION
PROPOSED STORM SEWER PIPE

- GENERAL GRADING NOTES
- A. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND HIS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
  - B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED/SOODED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
  - C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
  - D. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
  - E. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SHIELDING, BRACING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
  - F. ALL HDPE SHALL BE N-12 WT IB (OR EQUIVALENT) WITH SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. 4"-60" PIPE SHALL MEET ASTM F2648 (OR ASHTO M252 TYPE S) REQUIREMENTS, AND SHALL HAVE A MINIMUM HANNOING 1" DESIGN VALUE OF 0.012. JOINTS SHALL BE WATER TIGHT ACCORDING TO ASTM D3212 (OR ASHTO M252, M294) REQUIREMENTS. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477, JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES, AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATION FOR ADS N-12 WT IB PIPE FOUND IN THE ADS, INC. DRAINAGE HANDBOOK, LATEST EDITION.
  - G. IF USING HDPE PERFORATED PIPE FOR SUBSURFACE DRAINAGE AND DETENTION/RETENTION SYSTEMS, THE PERFORATIONS SHALL MEET THE ASHTO CLASS II STANDARD PERFORATION PATTERN REQUIREMENTS.
  - H. UNLESS OTHERWISE INDICATED, ALL STORM SEWER LINES 18"-54" DIAMETER ARE TO BE REINFORCED CONCRETE PIPE ACCORDING TO ASTM C-76 TYPE II.

STORM DETAILS - SEE DETAIL SHEETS

17B	CONCRETE FLUME
17R	DRAINAGE SIDEWALK CULVERT W/ STEEL PLATE TOP
19C	FLARED END SECTION
20A	JUNCTION BOX
20B	ACO DRAIN F880 CATCH BASIN
21A	CURB INLET
23E	COMBINATION INLET
23F	NYLOPLAST ENGINEERED STRUCTURE MANUFACTURED BY ADS PIPE (OR APPROVED EQUAL). SEE STRUCTURE AND GRATE/LID MODEL NUMBER INDICATED AT SYMBOL. STRUCTURES IN DRIVES MUST BE DESIGNED TO WITHSTAND H-20 LOADING. STRUCTURES IN LANDSCAPED AREAS USE NON-TRAFFIC INSTALLATION DETAIL.
23G	TEE CONNECTION (INSERTA TEE OR EQUIVALENT WATER TIGHT CONNECTION)
26F	HYDRO INTERNATIONAL "FIRST DEFENSE" WO UNIT
27A	ACO DRAIN FLOWDRAIN - F6200 WITH LONGITUDINAL DUCTILE IRON GRATE (ADA COMPLIANT).
27B	TRENCH DRAIN
27E	STORM DRAIN CLEAN-OUT
27H	ROOF DRAIN DOWNSPOUT CONNECTION
27J	CANOPY DRAIN DOWNSPOUT CONNECTION
27F	WATERSTOP STRUCTURE CONNECTION FOR HDPE PIPE

SHEET NO. C-3.2

19062

DEC 04 2018

STORM DRAINAGE PLAN

MURPHY EXPRESS

1358 WYOMING BLVD

ALBUQUERQUE NEW MEXICO

GreenbergFarrow

1430 W. PEACHTREE ST. NW

ATLANTA, GA 30309

PHONE: (404) 601-4000

DWG NAME: ALBUQUERQUE, NM

JOB NO.: 2016221.0

2016221.0

MURPHY OIL USA, INC.

200 PEACH ST.

EL DORADO, AR 71730

MURPHY USA