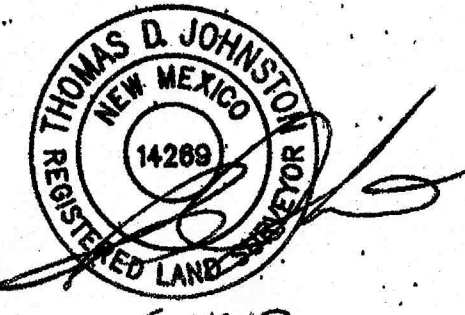


GRADING ASBUILT
PREPARED BY:

Wayjohn Surveying, Inc.
330 Louisiana Blvd. NE
Albuquerque, N.M. 87108-2062



MCKNIGHT AVE NE

COMMERCIAL ST NE

BROADWAY BLVD NE

CALCULATIONS: City of Albuquerque Salt Storage Building			
Based on Drainage Design Criteria for City of Albuquerque			
Section 222, DRAIN, Vol 2, dated Jan. 1995			
ON-SITE CALCULATIONS: 100-YEAR 6-HOUR STORM			
AREA OF SITE:	4980	SF	= 22
HISTORIC FLOWS:			
Area A	0	9%	
Area B	0	0%	
Area C	0	0%	
Area D	9480	100%	
Total Area	9480	100%	
DEVELOPED FLOWS:			
Area A	0	0%	
Area B	0	0%	
Area C	14240	15%	$E_A = 0.55$
Area D	59716	25%	$E_B = 1.15$
Total Area	59960	100%	$E_D = 2.12$
On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)			
Weighted E	$E_A + A\% + E_B + B\%$		
	$0 + 0\% + 1.15 + 25\%$		
	1.29		
Historic E	2.12		
On-Site Volume of Runoff: $V_{RO} =$	$F/A \cdot 12$		
Historic V_{RO}	16796 CF		
On-Site Peak Discharge Rate: $Q_p = Q_{pA} + Q_{pB} + Q_{pC} + Q_{pD} / 4.568$			
For Precipitation Zone 2			
Q_A	1.56		
Q_B	2.28		
Historic Q_p	10.2 CFS		
Developed Q_p	8.7 CFS		

DRAINAGE CERTIFICATION

I, Asa Nilsson-Weber, NMPE 17631, of the firm Isaacson & Arfman, P.A., 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 05/24/2011. The record information edited onto the original design document has been obtained by Thomas D. Johnston, NMPS 14289, of the firm Wayjohn Surveying, Inc. I further certify that I have personally visited the project site on 06/10/2013 and have determined by visual inspection that the survey data 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 certificate of occupancy.

The record information presented herein 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.

Asa Nilsson-Weber
NMPE 17631
Date 6/11/13



GENERAL NOTES

- COORDINATE WORK WITH ARCHITECTURAL PLAN
- ALL SUBGRADE, OVEREXCAVATION, AND FILL SHALL BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT AND CITY OF ALBUQUERQUE SPECIFICATIONS
- ALL TRASH, DEBRIS, & SURFACE VEGETATION SHALL BE CLEARED AND LEGALLY DISPOSED OF OFFSITE
- FINAL GRADES SHOWN REPRESENT TOP OF FINISH MATERIAL (I.E. TOP OF CONCRETE, TOP OF CONCRETE BUILDING PAD, TOP OF PAVEMENT MATERIAL, TOP OF LANDSCAPING MATERIAL, ETC.). CONTRACTOR SHALL GRADE, COMPACT SUBGRADE AND DETERMINE EARTHWORK ESTIMATES BASED ON ELEVATIONS SHOWN MINUS FINISH MATERIAL THICKNESSES
- UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING AS SHOWN ON PLAN. COMPACT WITH UNIFORM SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE INDICATED
- EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES
- OWNER WILL PROVIDE SOIL TESTING AND INSPECTION SERVICES DURING EARTHWORK OPERATIONS. CONTRACTOR SHALL ALLOW TESTING LABS TO INSPECT AND APPROVE COMPACTED SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS DONE. SHOULD COMPACTION TESTS INDICATE INADEQUATE DENSITY, CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION AND TESTING AT THE CONTRACTOR'S SOLE EXPENSE
- OWNER HAS ESTABLISHED PROPERTY BOUNDARY CORNERS. CONTRACTOR SHALL PROVIDE ALL OTHER CONSTRUCTION STAKING. CONTRACTOR SHALL LOCATE AND PRESERVE ALL BOUNDARY CORNERS AND REPLACE ANY LOST OR DISTURBED CORNERS AT CONTRACTOR'S SOLE EXPENSE
- ADJUST RIMS OF ANY EXISTING UTILITY FEATURES AS NECESSARY TO MATCH NEW GRADES, TYPICAL
- ALL NEW PAVEMENT SURFACES SHALL BE CONSTRUCTED WITH POSITIVE SLOPE AWAY FROM BUILDING AND POSITIVE SLOPE TOWARD EXISTING AND/OR PROPOSED DRAINAGE PATHS. WHERE NEW GRADES ARE SHOWN AS "MATCH" OR "X", TRANSITIONS SHALL BE SMOOTH AND LEVEL

EARTHWORK NOTES

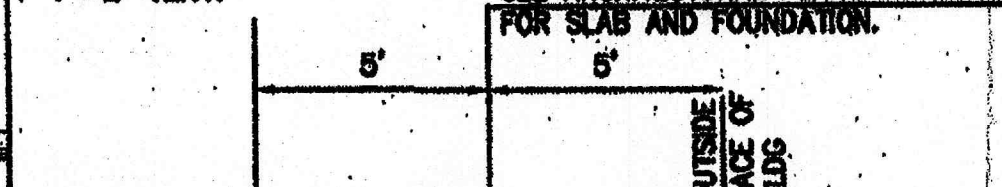
THE CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS LISTED IN THE GEOTECHNICAL ENGINEERING STUDY REPORT BY AMEC, DATED FEBRUARY 7, 2011.

THE REPORT RECOMMENDS THAT THE BUILDING AREA BE OVEREXCAVATED TO PROVIDE FOR STRUCTURAL FILL AS FOLLOWS:

"THE BUILDING AREA SHALL BE OVEREXCAVATED SO AS TO PROVIDE FOR A MINIMUM OF 3.0 FEET OF STRUCTURAL FILL BELOW ALL FOUNDATIONS AND 1.0 FOOT BELOW FLOOR SLAB. OVEREXCAVATION SHALL EXTEND LATERALLY A DISTANCE OF 1.0 FOOT BEYOND THE FOOTING PERIMETER."

PAVING OVERLAY SECTIONS

1"=4' HOR.
1"=2' VERT.



GRIND EXIST ASPHALT & OVERLAY NEW 1.5" MIN. TYPE SP-C ASPHALT TO ELEVATIONS SHOWN.

SAWCUT, REM. & DISPOSE EXIST ASPH. & BASE COURSE (7-8" ASPH. OVER 3-4" ABC)

SEE ARCHITECTURAL PLANS FOR SLAB AND FOUNDATION.

SECTION A

OUTSIDE FACE OF BLDG

ELEV. PROP. TA = A+0.15

ELEV. EXIST TA = A

3%

1.5"

SECTION B

SAWCUT, REM. & DISPOSE EXIST ASPH. & BASE COURSE (7-8" ASPH. OVER 3-4" ABC)

GRIND EXIST ASPHALT & OVERLAY NEW TYPE SP-C ASPHALT (1.5-4") TO ELEVATIONS SHOWN.

SEE ARCHITECTURAL PLANS FOR SLAB AND FOUNDATION.

OUTSIDE FACE OF BLDG

ELEV. PROP. TA = A+0.15

ELEV. EXIST TA = A

3%

1.5"

PAVING MATERIALS AND INSTALLATION SHALL BE PER CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION, AS AMENDED WITH UPDATE 7, INCLUDING AMENDMENT 1.

VICINITY MAP



PROJECT DATA

LEGAL DESCRIPTION: MAP 36 TR 8A & MAP 37 TR 194A14

SITE AREA: 2.18 AC

AREA OF PAVEMENT REMOVAL/OVERLAY: 0.43 AC

FLOOD ZONE: X - AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN PER FEMA MAP #55001003326

ENGINEER: ISAACSON & ARFMAN, P.A.
128 MONROE ST NE, APO. NM 87108
PHONE: (505) 268-8828

SURVEYOR: SURVEY PROVIDED BY CITY OF ALBUQUERQUE

TEMPORARY BENCHMARK: SEE PLAN

KEYED NOTES

- PROPOSED SALT STORAGE BUILDING—SEE ARCHITECTURAL PLANS.
- SAWCUT, REMOVE & DISPOSE ASPHALT WITHIN LIMITS SHOWN—TO 5 FEET OUTSIDE OF BUILDING.
- GRIND/OVERLAY PAVING AS NECESSARY OUTSIDE BUILDING LIMITS TO MATCH GRADES SHOWN.
- MATCH EXISTING ASPHALT GRADES AND PROVIDE SMOOTH RIDING TRANSITION BETWEEN NEW AND EXISTING ASPHALT.
- PROVIDE 3% SLOPE TO 10' AWAY FROM THE BUILDING, TYP.
- SEE ARCHITECTURAL PLANS FOR BUILDING SLAB.
- SEE ARCHITECTURAL PLANS FOR FENCE REMOVAL/RELOCATION.
- SAWCUT, REMOVE & DISPOSE PAVING WITHIN PROPOSED LANDSCAPE AREA.
- DEPRESS ALL LANDSCAPED AREAS MIN. 6" FOR WATER HARVESTING—SEE LANDSCAPE PLANS.
- REMOVE & DISPOSE DRIVEWAY CONCRETE. INSTALL STANDARD CURB & GUTTER AND SIDEWALK PER COA STD DWGS 2415A & 2430.

DRAINAGE NOTES

THE PROJECT IS COMPRISED OF A SALT STORAGE BUILDING. EXISTING ASPHALT SHALL BE REMOVED IN THE AREAS OF THE NEW BUILDING AND THE PROPOSED LANDSCAPE AREAS. THE LANDSCAPE AREAS SHALL BE DEPRESSED 6 INCHES FOR WATER HARVESTING.

BECAUSE OF THE ADDITION OF LANDSCAPING, THE DEVELOPED DISCHARGE RATE WILL BE REDUCED. PER THE CALCULATIONS THIS SHEET, EXISTING DISCHARGE IS 10.2 CFS AND PROPOSED DISCHARGE IS 8.7 CFS. A PORTION OF THE PROPOSED DISCHARGE WILL ALSO BE CONTAINED IN THE WATER HARVESTING AREAS.

THE FLOWS WILL DISCHARGE TOWARD THE WEST AND NORTHWEST PER HISTORICAL CONDITIONS.

LEGEND

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- FLOW ARROW
- LIMITS OF ASPHALT REMOVAL

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque, New Mexico 87108
Ph. 505-268-8828 Fax. 505-268-2632
1016 00-101.dwg May 24, 2011

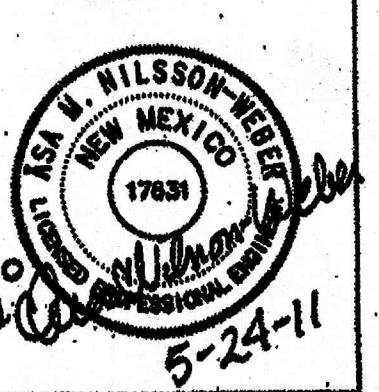
1717 LOUISIANA NE, SUITE 205
ALBUQUERQUE, NM 87110-7027
505.821.0235 FAX 505.821.0348

3005 NORTHRIDGE DR., SUITE F
FARMINGTON, NM 87402-2085
505.325.7475 FAX 505.325.6464

ARCHITECTURE
ENGINEERING
PLANNING
INTERIOR DESIGN

GREER
STAFFORD
SJCF

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED, AND DATED BELOW



SALT STORAGE BUILDING
C/O A STREET MAINTENANCE
1820 BROADWAY BLVD NE
ALBUQUERQUE, NM 87102

PROJECT NO.	3060.09
CHECKING FILE	1016 00-101.dwg
DRAWN BY	RAW
CHECKED BY	PCA
DATE	5/24/2011
NO. DOCUMENTS	1
DATE	5/24/2011
ISSUE	1

PROJECT NO: 3060.09

CHECKING FILE: 1016 00-101.dwg

DRAWN BY: RAW

CHECKED BY: PCA

DATE: 5/24/2011

NO. DOCUMENTS: 1

DATE: 5/24/2011

ISSUE: 1

PROJECT NO: 3060.09

CHECKING FILE: 1016 00-101.dwg