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- 2 EXISTING ASPHALT PARKING AREA.
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- (8) EXISTING REFUSE DUMPSTER & RECYCLING ENCLOSURE RECONSTRUCTED PER CURRENT CITY OF ALBUQUERQUE STANDARDS -- SEE DETAILS
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- (2) EXISTING ADA SIDEWALK RAMP
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- 23 NEW TRANSFORMER -- SEE ELECTRICAL DRAWINGS
- CONCRETE RUNDOWN -- SEE GRADING AND DRAINAGE PLAN AND DETAILS
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- MANEUVERING CLEARANCE AT SWINGING DOORS, PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, CHAPTER 4

PARKING

- · PARKING REQUIREMENTS
- EMERGENCY SHELTER = 7 SPACES
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- · TOTAL CAR PARKING SPACES REQUIRED 9 SPACES
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PARKING PROVIDED

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LANDSCAPING

LANDSCAPE REQUIREMENTS

- · 51,656 SF- TOTAL LOT AREA
- · (15,200 SF- BUILDING AREA)
- (1,000 SF- EXTERIOR DECK AREA)
- (6,168 SF- PARKING AREA) 29,288 NET LOT AREA
- 4,393 SF REQUIRED (29,888 SF X .15)

· LANDSCAPE AREA PROVIDED

- · 7,280 SF (FRONT / PARKING AREA EXISTING)
- · 4,932 SF (GARDEN EXISTING)
- · 2,195 SF (NEW)
- · 14,407 SF (TOTAL)

GENERAL NOTES:

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LEGEND:

TRAFFIC CIRCULATION LAYOUT

Public Infrastructure shown

on these plans for information

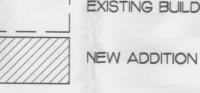
only and not part of approval. Separate DRC/Permit approval and Work Order required.

FEB 0 1 2013

AND DEVELOPMENT SECTION



EXISTING BUILDINGS TO REMAIN





RESPI

DATE:

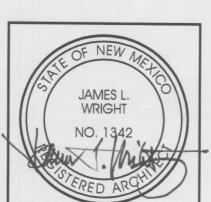
19 NOV., 2012

REVISIONS: 29 JAN., 2013 31 JAN., 2013

SHEET

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1-29-2013



ZOZ

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LEGEND



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NEW ADDITION

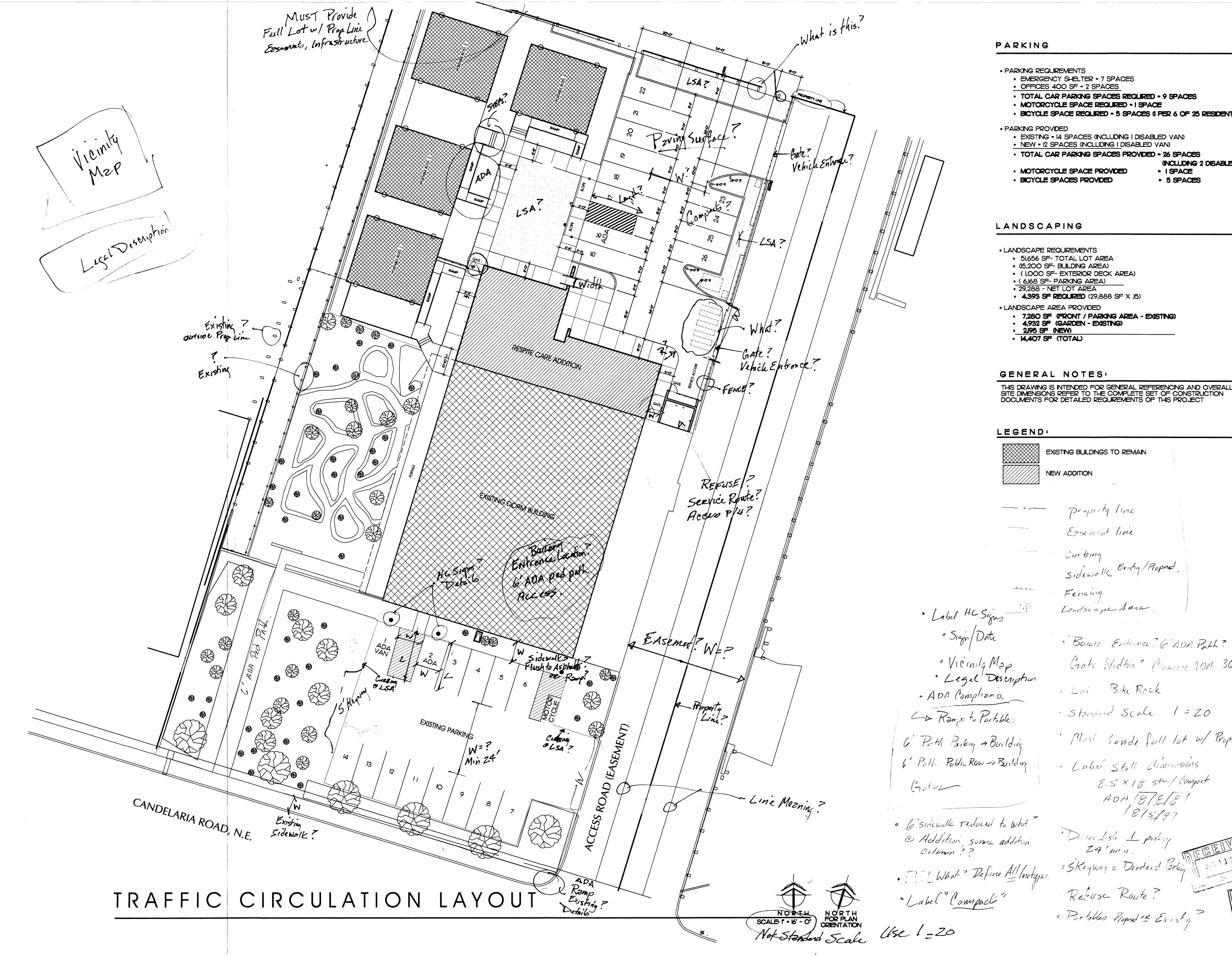
LAND DEVELOPMENT SECT

SHEET

19 NOV., 2012

29 JAN., 2013

REVISIONS:



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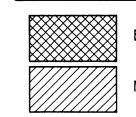
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EXISTING BUILDINGS TO REMAIN

NEW ADDITION

Sidewalk Existing/Proposed.

· Buico Entrance? 6'ADA Path? Gate Widths? Charcie ADA 36"

Lain Bika Rack

· Standard Scale 1=20

· Must Provide full lot w/ Prop. Line

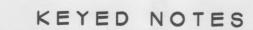
· Label Stall Climinsions E. S × 18 Str. / Compact ADA 18/8/8/ 18/5/87

24' min.

NO. 1342

1-19-2012

DATE: 19 NOV., 2012 REVISIONS:



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FEB 0 1 2013

LAND DEVELOPMENT SECTION

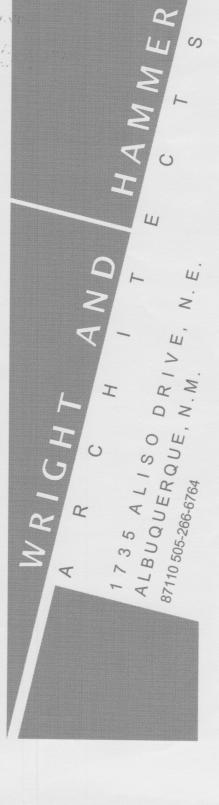


EXISTING BUILDINGS TO REMAIN

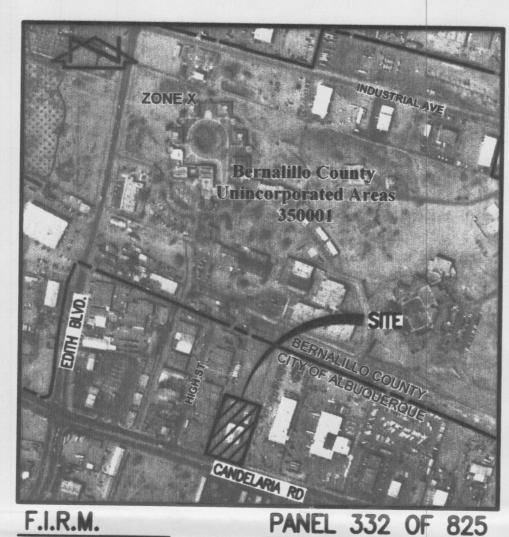
29 JAN., 2013 31 JAN., 2013 SHEET

19 NOV., 2012

REVISIONS:



VICINITY MAP



DESIGN SURVEY NOTE:

SCALE: 1" = 500'

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A PLAT OF TOPOGRAPHY PREPARED BY HARRIS SURVEYING, N.M.P.S. 11463 DATED JANUARY 2011. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE SURVEY PREPARED BY HARRIS SURVEYING, INC., NMPS NO. 11463, DATED JANUARY 2011.

XTA=5001.88

XTA=5002.20

XTA=5002.61

EXISTING 10" PVC STORM DRAIN OUTLET TO CANDELARIA VIA 12" SIDEWALK CULVERT. / Q100= 1.1 cfs PER RECORD PLAN DATED 8-11-1987

> BOC=5000.85 FL=5000.39 XTA=5000.33 XTA=5001.48

GRADING



CONSTRUCTION NOTES:

- 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES.
- 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. 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. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- 6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

EROSION CONTROL MEASURES:

- 1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE
- 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. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING

DESIGN GRADING LEGEND (PROPOSED)

× 5008.95 ● 08.10 ---5003--4

4+

EXISTING ELEVATION EXISTING FLOWLINE PROPOSED FLOWLINE EXISTING CONTOUR PROPOSED CONTOUR **EXISTING DIRECTION OF FLOW** PROPOSED DIRECTION OF FLOW HIGH POINT / DIVIDE

CF

PROPOSED ASPHALT PAVING PROPOSED CRUSHER FINES

PROPOSED BASIN BOUNDARY

PROPOSED CONCRETE

SURVEY LEGEND (EXISTING):

BACK OF CURB TOP OF ASPHALT EDGE OF ASPHALT EDGE OF CONCRETE TOP OF CONCRETE FLOW LINE FLAG STONE EDGE OF ROCK EDGE OF POND BOTTOM OF POND DRIVE CUT WATER METER TRAFFIC SIGNAL BOX STEEL PLATE NORTH RIM OF MANHOLE FIRE HYDRANT GROUND 0 0 CHAINLINK FENCE 0 0 IRON FENCE TREE

BUSH

GATE

LEGAL DESCRIPTION LOT 1-A, SCHMIDER PARCEL **Consulting Group**

6010-B MIDWAY PARK BLVD. NE ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 FAX: 505.345.4254 www.highmesacg.com



ZU ОШ

DATE: 19 NOVEMBER, 2012 **REVISIONS:**

ALBUQUERG 1ETROPOLIT,

SHEET

2012.052.2

THIS PROJECT, LOCATED IN A DEVELOPED COMMERCIAL AREA OF CENTRAL ALBUQUERQUE, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED IMPROVEMENTS CONSIST OF AN ADDITION TO AN EXISTING BUILDING. THE PROPOSED DRAINAGE CONCEPT IS TO MAINTAIN THE STATUS QUO WITH CONTINUED DISCHARGE TO AN EXISTING DETENTION POND THAT RELEASES TO CANDELARIA RD NE AT THE EXISTING CONTROLLED RATE OF DISCHARGE IN ACCORDANCE WITH AN APPROVED GRADING AND DRAINAGE PLAN.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE NORTH SIDE OF CANDELARIA ROAD NE, BETWEEN EDITH BLVD AND 1-25. THE CURRENT LEGAL DESCRIPTION OF THE SITE IS LOT 1-A, SCHMIDER PARCEL. AS SHOWN BY PANEL 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS FOR BERNAILILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

III. BACKGROUND DOCUMENTS AND RESEARCH

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- PLAT OF TOPOGRAPHY PREPARED BY HARRIS SURVEYING, NMPS 11463, DATED JANUARY, 2011. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.
- GRADING AND DRAINAGE PLAN FOR ROLLINS TRUCK LEASING PREPARED BY TOM MANN & ASSOCIATES DATED 08/11/1987 (CITY HYDROLOGY FILE G15/D001). THIS PLAN WAS PREPARED TO SUPPORT THE CONSTRUCTION OF A PAVED PARKING LOT AT THIS SAME SITE WHICH WAS THEN KNOWN AS LOT 1, SUNDT'S INDUSTRIAL AREA. THIS PLAN INCLUDED CONSTRUCTION OF A PAVED PARKING LOT DETENTION POND SERVING THE SUBJECT SITE WITH A 10 INCH STORM DRAIN DESIGNED TO RELEASE AT A RATE OF 1.1 CFS TO CANDELARIA RD NE VIA 12 INCH SIDEWALK CULVERT. THE LOT PREVIOUSLY HAD AN UNPAVED RETENTION POND.

IV. EXISTING CONDITIONS

THE EXISTING SITE IS DEVELOPED AS A HOMELESS SHELTER AND OPPORTUNITY CENTER WITH AN EXISTING BUILDING, PAVED PARKING AND SERVICE AREAS, A LANDSCAPED AREA WEST OF THE BUILDING, AND A PAVED PARKING LOT. THE SITE IS DIVIDED INTO TWO DRAINAGE BASINS. BASIN A IS THE SOUTHERN BASIN THAT DRAINS FROM NORTHEAST TO SOUTHWEST AS SURFACE FLOW AND DISCHARGES FREELY TO CANDELARIA VIA DRIVEWAY. BASIN B IS THE NORTHERN PORTION OF THE SITE THAT DRAINS TO THE NORTH ON PAVED SURFACES TO AN EXISTING DETENTION POND LOCATED WITH A PAVED PARKING/STORAGE AREA ON TRACT 2-A THAT ADJOINS THE SITE TO THE EAST AND NORTH. THE POINT OF CONCENTRATION OF THE POND IS A SINGLE "D" STORM INLET THAT WAS CONSTRUCTED PURSUANT TO THE AFOREMENTIONED 1987 PLAN.

AT THE TIME OF THE 1987 PLAN, THE SUBJECT SITE WAS PART OF LOT 1, SUNDT'S INDUSTRIAL AREA THAT INCLUDED THE PROPERTY WITH THE DETENTION POND AND THE PROPERTY THAT IS NOW LOT 1-A, SCHMIDER PARCEL. A 2005 LOT LINE ADJUSTMENT AND REPLAT ADJUSTED. THE LOT LINES SUCH THAT THE NORTHERN PORTION OF CURRENT TRACT 1-A (BASIN B) DRAINS ONTO THE DETENTION POND LOCATED ON TRACT 2-A TO THE NORTH. THE 2005 PLATTING ACTION DID NOT HAVE A RELATED DRAINAGE REPORT, AND AN EASEMENT WAS NOT GRANTED VIA PLAT TO ADDRESS OR DOCUMENT THIS HISTORIC

OFFSITE FLOWS DO NOT IMPACT THE SITE.

V. DEVELOPED CONDITIONS

THE PROPOSED IMPROVEMENTS TO THE SITE CONSIST OF A NEW BUILDING ADIDTION AND PAVED PARKING LOT IMPROVEMENTS TO BASIN B. SMALL LANDSCAPED AREAS WILL BE PROVIDED THAT CONSIST OF CRUSHER FINES. THERE ARE NO PROPOSED IMPROVEMENTS TO BASIN A THAT WILL CONTINUE TO DISCHARGE FREELY TO CANDELARIA ROAD NE TO THE SOUTH.

THE NEW BUILDING ADDITION AND PARKING LOT IMPROVEMENTS WILL BE CONSTRUCTED ON AN AREA THAT IS CURRENTLY ASPHALT PAVEMENT. BY ADDING SMALL AREAS OF CRUSHER FINES, THERE WILL BE A NEGLIGIBLE DECREASE IN THE VOLUME AND PEAK RATE OF RUNOFF GENERATED BY THE SITE.

BASIN B RUNOFF WILL CONTINUE TO DRAIN FROM SOUTH TO NORTH IN HISTORIC MANNER ONTO TRACT 2-A. TO MIMIC THE PRE-EXISTING SHEETFLOW NATURE OF THIS DISCHARGE, THE PARKING LOT RUNOFF WILL BE DIRECTED TO A CONCRETE RUNDOWN CHANNEL THAT HAS A TAPERED HEIGHT ON THE NORTH SIDE ALLOWING RUNOFF TO SPILL OR OVERFLOW THE SIDE AS A WIDE SIMILAR TO A LONG WIER AS OPPOSED TO A POINT DISCHARGE. THE INTENT OF THIS BEING TO MORE CLOSELY MIMIC THE CURRENT SHEETFLOW CONDITION.

IT SHOULD BE NOTED THAT FOUR (4) PORTABLE BUILDINGS HAVE RECENTLY BEEN INSTALLED AT THE SITE UNDER SEPARATE BUILDING PERMIT THAT DID NOT HAVE AN ASSOCIATED GRADING PLAN. THESE BUILDINGS WERE LOCATED ON PAVED AREAS, AND ARE SET ON PIERS THAT ARE AT OR ABOVE THE PRE-EXISITING PAVEMENT ELEVATION, THEREBY NOT IMPACTING OR ALTERING THE PRE-EXISTING AND HISTORIC DRAINAGE CONDITIONS.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS AS TAKEN FROM THE TOPOGRAPHIC SURVEY, 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

VII. CALCULATIONS

THE CALCULATIONS HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT FOR THE SITE. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE DECREASE IN THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THIS PROJECT.

VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS AND ANALYSES CONTAINED HEREIN:

- 1. THIS PROJECT REPRESENTS A MODIFICATION TO A DEVELOPED SITE IN AN INFILL AREA.
- 2. THIS SUBMITTAL IS MADE TO SUPPORT SITE DEVELOPMENT PLAN FOR BUILDING PERMIT.
- 3. THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.
- 4. DEVELOPED RUNOFF FROM BASIN B WILL BE ROUTED THROUGH THE NEW PARKING LOT IMPROVEMENTS TO A CONCRETE RUNDOWN CHANNEL WITH A TAPERED SIDEWALL THAT WILL OVERFLOW TO THE NORTH, CLOSELY MIMICING THE EXISTING MANNER AND LOCATION OF DICHARGE TO THE HISTORIC OUTFALL.
- 5. THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE DECREASE IN RUNOFF GENERATED BY THE PROJECT SITE.
- 6. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR CONDITIONS.

DRAINAGE PLAN, CALCULATIONS, SECTIONS AND DETAILS

CALCULATIONS:

I. SITE CHARACTERISTICS A. PRECIPITATION ZONE =

B. P_{6,100} = P₃₀₀ =

C. TOTAL PROJECT AREA (A_T) = 62,780 SF 1.44 AC

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

a. BASIN A	39,400 SF =	0.90 AC	
TREATMENT	AREA (SF/AC)		%
8	3,700 / 0.08		9
С	11,100 / 0.25		28
D	24,600 / 0.57		63
b. BASIN B	23,360 SF =	0.54 AC	
TREATMENT	AREA (SF/AC)		*
C	1,500 / 0.04		7
D	21,880 / 0.50		93
2. DEVELOPED LAND T	REATMENT		
- BARNA	22 400 05		

a. Basin a	39,400 SF =	0.90 AC	
TREATMENT	AREA (SF/AC)		9
8	3,700 / 0.08		9
С	10,300 / 0.24		2
D	25,400 / 0.58		6
b. BASIN B	23,360 SF =	0.54 AC	
TREATMENT	AREA (SF/AC)		7
С	5,1 6 0 / 0.12		2
D	18,220 / 0.42		71

II. HYDROLOGY

A. EXISTING CONDITION

1. BASIN A

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$ $E_W = ((0.00^{\circ}0.53) + (0.08^{\circ}0.78) + (0.25^{\circ}1.13) + (0.57^{\circ}2.12))/0.90 = 1.73 \text{ IN}$ $V_{100} = (E_W/12)A_T = (1.73/12)0.90 = 0.1298 AC-FT =$ b. PEAK DISCHARGE

 $Q_{p} = Q_{pq}A_{q} + Q_{pq}A_{q} + Q_{pq}A_{q} + Q_{pq}A_{q}$ $Q_p = Q_{100} = ((0.00^{\circ}1.56) + (0.08^{\circ}2.28) + (0.25^{\circ}3.14) + (0.57^{\circ}4.7)) =$ 3.7 CFS

2. BASIN B

a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$ $E_W = ((0.00^{\circ}0.53) + (0.00^{\circ}0.78) + (0.04^{\circ}1.13) + (0.50^{\circ}2.12))/0.54 = 2.05 \text{ IN}$ (2.05/12)0.54 = 0.0923 AC-FT = $V_{100} = (E_W/12)A_T =$ b. PEAK DISCHARGE $Q_p = Q_{pq}A_A + Q_{pg}A_g + Q_{pg}A_g + Q_{pg}A_g$

 $Q_p = Q_{100} = ((0.00^{\circ}1.55) + (0.00^{\circ}2.25) + (0.04^{\circ}3.14) + (0.50^{\circ}4.7)) =$

B. <u>DEVELOPED CONDITION</u>

1. BASN A

a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$ ((0.00^0.53) + (0.08^0.78) + (0.24^1.13) + (0.56^2.12))/0.90 = (1.74/12)0.90 =0.1305 AC-FT = 5,660 CF b. PEAK DISCHARGE $Q_p = Q_{pq}A_A + Q_{pq}A_0 + Q_{pq}A_0 + Q_{pq}A_0$ $Q_p = Q_{100} = ((0.00^{\circ}1.56) + (0.08^{\circ}2.26) + (0.24^{\circ}3.14) + (0.58^{\circ}4.7)) =$

2. BASIN B

a. VOLUME

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) A_T$

((0.00~0.53) + (0.00~0.78) + (0.12~1.13) + (0.42~2.12))/0.54 = (1.89/12)0.54 =3,700 CF b. PEAK DISCHARGE $Q_p = Q_{p,q}A_q + Q_{p,q}A_q + Q_{p,q}A_q + Q_{p,q}A_q$

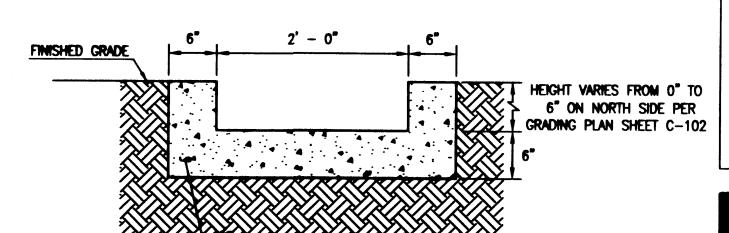
 $Q_p = Q_{100} = ((0.00^{\circ}1.55) + (0.00^{\circ}2.26) + (0.12^{\circ}3.14) + (0.42^{\circ}4.7)) =$

C. <u>COMPARISON</u>

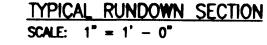
1. BASIN A

 $\Delta Q_{100} = 2.3 - 2.5 =$

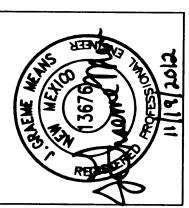
a. VO ΔV ₁₀₀	LUME = 5,660 - 5,650 =	30 CF	(MACONE A O.E.)
TA 100	- 3,000 - 3,000 -	30 CF	(INCREASE)
b. PE	AK DISCHARGE		
AQ ₁₀₀	3.7 - 3.7 =	0.0 CFS	(INCREASE)
. BASIN I	3		
a. VO	LUME		
ΔV ₁₀₀	= 3,700 - 4,020 =	-320 CF	(DECREASE)
b. PE	AK DISCHARGE		



12" SUBGRADE COMPACTED @ 95% A.S.T.M D-1557



3000 P.S.I. CONCRETE





ENTER

DATE:

SHEET

REVISIONS:

19 NOVEMBER, 2012

 \triangleleft

6018-8 MIDWAY PARK BLVD. NE ALBUQUERQUE, NEW MEXICO 87167 PHONE: 506.346.4290 FAX: 506.346.4254 www.highmesacg.com

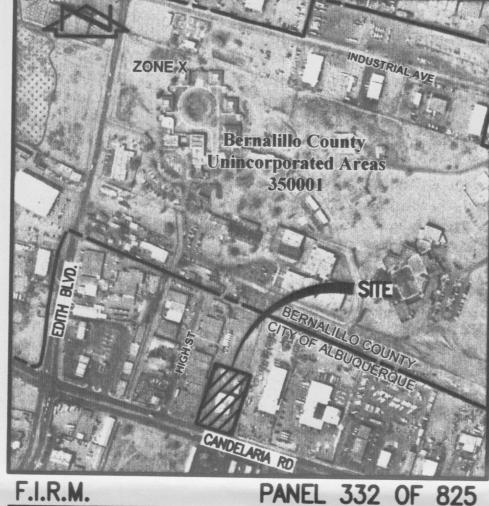
2012.052.2

(DECREASE)

2.5 CF3

3.7 CFS

2.3 CFS



DESIGN SURVEY NOTE:

SCALE: 1" = 500'

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON A DATED JANUARY 2011. THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE SURVEY PREPARED BY HARRIS SURVEYING, INC., NMPS NO. 11463, DATED JANUARY 2011.

XTA=5001.88

XTA=5001.48

×TA=5002.20

TA=5002.57 >

XTA=5002.61

EXISTING 10" PVC STORM DRAIN OUTLET TO CANDELARIA VIA 12" SIDEWALK CULVERT. / WEST Q100= 1.1 cfs PER RECORD PLAN DATED 8-11-1987 BOC=5000.85 FL=5000.39 ×TA=5000.33

GRADING PLAN



TA=5007.93 ×

BOC=5006.7 FL=5006.15

BOC=5006.81 BOC=5006.83

XTA=5007.01

BOC=5005.65

XTA=5004.26

RECORD DRAWING LEGEND

X EA=5011.35

G=5012.58 X TA=5014.85

//×TA≠5014.77

XTA=5014.78

*€A=5012.88

XTA=5012.63

×TA=5012.83

× ¢=5009.86

)×G=5010.07

 $\times 0 = 5009.87$

G=5009.28

×TA=5008.38

⟨G=5009.90

×G=5009.69

XTA=5011.72

SCALE: 1" = 20'

G±5010.65 ×/

XG=5010.20

XG=5013.02 TA=5014.83 X XG=5014.13

XTA=5015.34

XTA=5015.32

RECORD INFORMATION (VERIFIED BY ENGINEER AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY)

RECORD INFORMATION FROM AS-BUILT SURVEY

× 5008.95

● 08.10

4 ...

--5003--

---03----

4

4

4++

SURVEY LEGEND (EXISTING):

BACK OF CURB TOP OF ASPHALT EDGE OF ASPHALT EDGE OF CONCRETE TOP OF CONCRETE FLOW LINE FLAG STONE EDGE OF ROCK EDGE OF POND BOTTOM OF POND SWALE DRIVE CUT WATER METER TRAFFIC SIGNAL BOX STEEL PLATE NORTH RIM OF MANHOLE FIRE HYDRANT INVERT GROUND CHAINLINK FENCE IRON FENCE

BUSH

GATE

LEGAL DESCRIPTION LOT 1-A, SCHMIDER PARCEL LAND DEVELOPMENT SECTION

6010-B MIDWAY PARK BLVD. NE **ALBUQUERQUE, NEW MEXICO 87109**

CONSTRUCTION NOTES:

- 1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
- 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- 5. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. 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. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- 6. THE DESIGN OF PLANTERS AND LANDSCAPED AREAS IS NOT PART OF THIS PLAN. ALL PLANTERS AND LANDSCAPED AREAS ADJACENT TO THE BUILDING(S) SHALL BE PROVIDED WITH POSITIVE DRAINAGE TO AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

EROSION CONTROL MEASURES:

- 1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- 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. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING

DESIGN GRADING LEGEND (PROPOSED)

EXISTING ELEVATION PROPOSED SPOT ELEVATION EXISTING FLOWLINE PROPOSED FLOWLINE **EXISTING CONTOUR** PROPOSED CONTOUR

EXISTING DIRECTION OF FLOW PROPOSED DIRECTION OF FLOW HIGH POINT / DMDE PROPOSED BASIN BOUNDARY

PROPOSED CONCRETE

PROPOSED ASPHALT PAVING PROPOSED CRUSHER FINES

SEP 2 3 2013



PHONE: 505.345.4250 FAX: 505.345.4254 www.highmesacg.com

DATE:

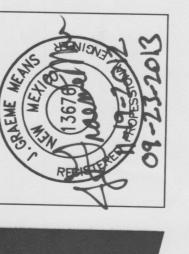
SHEET

REVISIONS:

19 NOVEMBER, 2012

09/2013 ENG. CERTIFICATION

2012.052.2





EC EC

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN A DEVELOPED COMMERCIAL AREA OF CENTRAL ALBUQUERQUE, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED IMPROVEMENTS CONSIST OF AN ADDITION TO AN EXISTING BUILDING. THE PROPOSED DRAINAGE CONCEPT IS TO MAINTAIN THE STATUS QUO WITH CONTINUED DISCHARGE TO AN EXISTING DETENTION POND THAT RELEASES TO CANDELARIA RD NE AT THE EXISTING CONTROLLED RATE OF DISCHARGE IN ACCORDANCE WITH AN APPROVED GRADING AND DRAINAGE PLAN.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SITE IS LOCATED ON THE NORTH SIDE OF CANDELARIA ROAD NE, BETWEEN EDITH BLVD AND I-25. THE CURRENT LEGAL DESCRIPTION OF THE SITE IS LOT 1-A, SCHMIDER PARCEL. AS SHOWN BY PANEL 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS FOR BERNAILILLO COUNTY, NEW MEXICO, SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

III. BACKGROUND DOCUMENTS AND RESEARCH

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- PLAT OF TOPOGRAPHY PREPARED BY HARRIS SURVEYING, NMPS 11463, DATED JANUARY, 2011. THIS REFERENCED SURVEY PROVIDES THE BASIS FOR THE EXISTING CONDITIONS OF THE PROJECT SITE.
- GRADING AND DRAINAGE PLAN FOR ROLLINS TRUCK LEASING PREPARED BY TOM MANN & ASSOCIATES DATED 08/11/1987 (CITY HYDROLOGY FILE G15/D001). THIS PLAN WAS PREPARED TO SUPPORT THE CONSTRUCTION OF A PAVED PARKING LOT AT THIS SAME SITE WHICH WAS THEN KNOWN AS LOT 1, SUNDT'S INDUSTRIAL AREA. THIS PLAN INCLUDED CONSTRUCTION OF A PAVED PARKING LOT DETENTION POND SERVING THE SUBJECT SITE WITH A 10 INCH STORM DRAIN DESIGNED TO RELEASE AT A RATE OF 1.1 CFS TO CANDELARIA RD NE VIA 12 INCH SIDEWALK CULVERT. THE LOT PREVIOUSLY HAD AN UNPAVED RETENTION POND.

IV. EXISTING CONDITIONS

THE EXISTING SITE IS DEVELOPED AS A HOMELESS SHELTER AND OPPORTUNITY CENTER WITH AN EXISTING BUILDING, PAVED PARKING AND SERVICE AREAS, A LANDSCAPED AREA WEST OF THE BUILDING, AND A PAVED PARKING LOT. THE SITE IS DIVIDED INTO TWO DRAINAGE BASINS. BASIN A IS THE SOUTHERN BASIN THAT DRAINS FROM NORTHEAST TO SOUTHWEST AS SURFACE FLOW AND DISCHARGES FREELY TO CANDELARIA VIA DRIVEWAY. BASIN B IS THE NORTHERN PORTION OF THE SITE THAT DRAINS TO THE NORTH ON PAVED SURFACES TO AN EXISTING DETENTION POND LOCATED WITH A PAVED PARKING/STORAGE AREA ON TRACT 2-A THAT ADJOINS THE SITE TO THE EAST AND NORTH. THE POINT OF CONCENTRATION OF THE POND IS A SINGLE "D" STORM INLET THAT WAS CONSTRUCTED PURSUANT TO THE AFOREMENTIONED 1987 PLAN.

AT THE TIME OF THE 1987 PLAN, THE SUBJECT SITE WAS PART OF LOT 1, SUNDT'S INDUSTRIAL AREA THAT INCLUDED THE PROPERTY WITH THE DETENTION POND AND THE PROPERTY THAT IS NOW LOT 1-A, SCHMIDER PARCEL. A 2005 LOT LINE ADJUSTMENT AND REPLAT ADJUSTED THE LOT LINES SUCH THAT THE NORTHERN PORTION OF CURRENT TRACT 1-A (BASIN B) DRAINS ONTO THE DETENTION POND LOCATED ON TRACT 2-A TO THE NORTH. THE 2005 PLATTING ACTION DID NOT HAVE A RELATED DRAINAGE REPORT, AND AN EASEMENT WAS NOT GRANTED VIA PLAT TO ADDRESS OR DOCUMENT THIS HISTORIC

OFFSITE FLOWS DO NOT IMPACT THE SITE.

V. DEVELOPED CONDITIONS

THE PROPOSED IMPROVEMENTS TO THE SITE CONSIST OF A NEW BUILDING ADIDTION AND PAVED PARKING LOT IMPROVEMENTS TO BASIN B. SMALL LANDSCAPED AREAS WILL BE PROVIDED THAT CONSIST OF CRUSHER FINES. THERE ARE NO PROPOSED IMPROVEMENTS TO BASIN A THAT WILL CONTINUE TO DISCHARGE FREELY TO CANDELARIA ROAD NE TO THE SOUTH.

THE NEW BUILDING ADDITION AND PARKING LOT IMPROVEMENTS WILL BE CONSTRUCTED ON AN AREA THAT IS CURRENTLY ASPHALT PAVEMENT. BY ADDING SMALL AREAS OF CRUSHER FINES, THERE WILL BE A NEGLIGIBLE DECREASE IN THE VOLUME AND PEAK RATE OF RUNOFF GENERATED BY THE SITE.

BASIN B RUNOFF WILL CONTINUE TO DRAIN FROM SOUTH TO NORTH IN HISTORIC MANNER ONTO TRACT 2-A. TO MIMIC THE PRE-EXISTING SHEETFLOW NATURE OF THIS DISCHARGE, THE PARKING LOT RUNOFF WILL BE DIRECTED TO A CONCRETE RUNDOWN CHANNEL THAT HAS A TAPERED HEIGHT ON THE NORTH SIDE ALLOWING RUNOFF TO SPILL OR OVERFLOW THE SIDE AS A WIDE SIMILAR TO A LONG WIER AS OPPOSED TO A POINT DISCHARGE. THE INTENT OF THIS BEING TO MORE CLOSELY MIMIC THE CURRENT SHEETFLOW CONDITION.

IT SHOULD BE NOTED THAT FOUR (4) PORTABLE BUILDINGS HAVE RECENTLY BEEN INSTALLED AT THE SITE UNDER SEPARATE BUILDING PERMIT THAT DID NOT HAVE AN ASSOCIATED GRADING PLAN. THESE BUILDINGS WERE LOCATED ON PAVED AREAS, AND ARE SET ON PIERS THAT ARE AT OR ABOVE THE PRE-EXISITING PAVEMENT ELEVATION, THEREBY NOT IMPACTING OR ALTERING THE PRE-EXISTING AND HISTORIC DRAINAGE CONDITIONS.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS AS TAKEN FROM THE TOPOGRAPHIC SURVEY, 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS, AND 4.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

VII. CALCULATIONS

THE CALCULATIONS HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT FOR THE SITE. THE PROCEDURE FOR 40 ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY 1993, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE DECREASE IN THE PEAK RATE OF DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THIS PROJECT.

VIII. CONCLUSIONS

THE FOLLOWING CONCLUSIONS HAVE BEEN ESTABLISHED AS A RESULT OF THE EVALUATIONS AND ANALYSES CONTAINED HEREIN:

- 1. THIS PROJECT REPRESENTS A MODIFICATION TO A DEVELOPED SITE IN AN INFILL AREA.
- 2. THIS SUBMITTAL IS MADE TO SUPPORT SITE DEVELOPMENT PLAN FOR BUILDING PERMIT.
- 3. THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

4. DEVELOPED RUNOFF FROM BASIN B WILL BE ROUTED THROUGH THE NEW PARKING LOT IMPROVEMENTS TO A CONCRETE RUNDOWN CHANNEL WITH A TAPERED SIDEWALL THAT WILL OVERFLOW TO THE NORTH, CLOSELY MIMICING THE EXISTING MANNER AND LOCATION OF DICHARGE TO THE HISTORIC OUTFALL.

- 5. THE PROPOSED IMPROVEMENTS WILL RESULT IN A NEGLIGIBLE DECREASE IN RUNOFF GENERATED BY THE PROJECT SITE.
- 6. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR CONDITIONS.

ENSINEER'S CERTIFICATION FOR FERMANENT CERTIFICATE OF OCCUPANCY

SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 11/19/2012. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT WAS OBTAINED 09/16/2013 UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., NMPS 11184, ALSO OF THE FIRM HIGH MESA CONSULTING GROUP. I FURTHER CERTIFY THAT I PERSONALLY VISITED THE PROJECT SITE 09/23/2013 AND DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED APPEARS TO BE 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 PERMANENT 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 AND DOES NOT ADDRESS COMPLIANCE WITH A.D.A. GUIDELINES. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO



09-23-2013



DRAINAGE PLAN, CALCULATIONS, SECTIONS AND DETAILS

I. SITE CHARACTERISTICS A. PRECIPITATION ZONE : B. P_{6,100} = P₃₀₀ = 2.35 C. TOTAL PROJECT AREA $(A_T) = 62,780$ SF

D. LAND TREATMENTS

1.	EXISTING	LAND	TREATMENT

a. BASIN A TREATMENT	39,400 SF = AREA (SF/AC)	0.90 AC
В	3,700 / 0.08	
С	11,100 / 0.25	
D	24,800 / 0.57	
b. BASIN B	23,380 SF =	0.54 AC
TREATMENT	AREA (SF/AC)	
С	1,500 / 0.04	
D	21,880 / 0.50	
2. DEVELOPED LAND T	REATMENT	

a. BASIN A TREATMENT	39,400 SF = AREA (SF/AC)	0.90 AC	%
В	3,700 / 0.08		9
С	10,300 / 0.24		26
D	25,400 / 0.58		64
b. BASIN B	23,380 SF =	0.54 AC	
TREATMENT	AREA (SF/AC)		%
С	5,1 6 0 / 0.12		22
D	18,220 / 0.42		78

II. HYDROLOGY

A. EXISTING CONDITION

1. BASIN A

a. VOLUME	
$E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D}$	yΑ _τ

 $E_W = ((0.00^{\circ}0.53) + (0.08^{\circ}0.78) + (0.25^{\circ}1.13) + (0.57^{\circ}2.12))/0.90 = 1.73 \text{ IN}$ $V_{100} = (E_W/12)A_T =$ (1.73/12)0.90 =0.1298 AC-FT = 5,650 CF b. PEAK DISCHARGE $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ $Q_P = Q_{100} = ((0.00^{\circ}1.56) + (0.08^{\circ}2.28) + (0.25^{\circ}3.14) + (0.57^{\circ}4.7)) =$

3.7 CFS

2.3 CFS

(DECREASE)

RECORD DRAWING

FOR CERTIFICATION, SEE SHEET C-501

2. BASIN B

a. VOLUME

 $E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D})A_{T}$ $((0.00^{\circ}0.53) + (0.00^{\circ}0.78) + (0.04^{\circ}1.13) + (0.50^{\circ}2.12))/0.54 = 2.05 \text{ IN}$ $V_{100} = (E_W/12)A_T =$ (2.05/12)0.54 = 0.0923 AC-FT =**b. PEAK DISCHARGE**

$Q_P = Q_{100} = ((0.00^{\circ}1.56) + (0.00^{\circ}2.28) + (0.04^{\circ}3.14) + (0.50^{\circ}4.7)) =$ B. <u>DEVELOPED CONDITION</u>

 $Q_P = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$

1. BASIN A

a. VOLUME $E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D})A_{T}$ $((0.00^{\circ}0.53) + (0.08^{\circ}0.78) + (0.24^{\circ}1.13) + (0.58^{\circ}2.12))/0.90 =$ (1.74/12)0.90 = 0.1305 AC-FT = 5,680 CF b. PEAK DISCHARGE $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$ $Q_P = Q_{100} = ((0.00^{\circ}1.56) + (0.08^{\circ}2.28) + (0.24^{\circ}3.14) + (0.58^{\circ}4.7)) =$ 3.7 CFS

2. BASIN B a. VOLUME

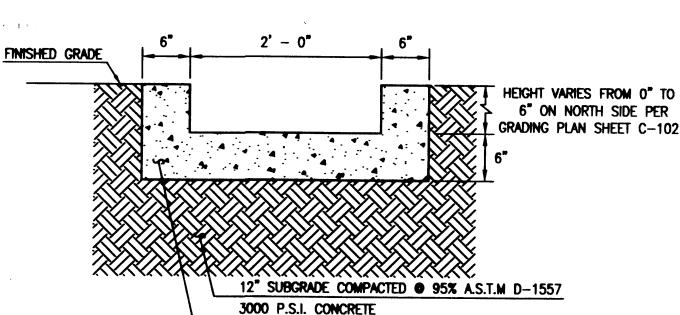
 $E_{W} = (E_{A}A_{A} + E_{B}A_{B} + E_{C}A_{C} + E_{D}A_{D})A_{T}$ $((0.00^{\circ}0.53) + (0.00^{\circ}0.78) + (0.12^{\circ}1.13) + (0.42^{\circ}2.12))/0.54 =$ 1.89 IN (1.89/12)0.54 =3,700 CF b. PEAK DISCHARGE $Q_p = Q_{pA}A_A + Q_{pB}A_B + Q_{pC}A_C + Q_{pD}A_D$

 $Q_P = Q_{100} = ((0.00^{\circ}1.56) + (0.00^{\circ}2.28) + (0.12^{\circ}3.14) + (0.42^{\circ}4.7)) =$

C. COMPARISON

1. BASIN A

a. VOLUM	ie –		
∆V ₁₀₀ =	5,680 - 5,650 =	30 CF	(INCREASE)
b. PEAK [DISCHARGE		
∆Q ₁₀₀ =	3.7 - 3.7 =	0.0 CFS	(INCREASE)
2. BASIN B			
a. VOLUM	E		
∆V ₁₀₀ =	3,700 - 4,020 =	-320 CF	(DECREASE)
b. PEAK [DISCHARGE		
40			



TYPICAL RUNDOWN SECTION SCALE: 1'' = 1' - 0''



ALBUQUERQUE METROPOLITAN H SPIT

SEP 2 3 2013 AND DEVELOPMENT SECTION



6010-B MIDWAY PARK BLVD. NE **ALBUQUERQUE. NEW MEXICO 87109** PHONE: 505.345.4250 FAX: 505.345.4254 www.highmesacg.com

2012.052.2

SHEET

DATE:

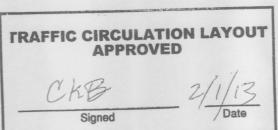
REVISIONS:

042015

19 NOVEMBER, 2012

ENG. CERTIFICATION





Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.



KEYED NOTES

- (1) EXISTING 2-STORY DORMITORY BUILDING. SEE BUILDING PLANS FOR RENOVATION AREA
- 2 EXISTING ASPHALT PARKING AREA.
- (3) EXISTING LANDSCAPED AREA.
- (4) EXISTING PORTABLE BUILDING
- 5 EXISTING ENTRY DECK
- (6) EXISTING STAIRS AND RAMP
- 7) NEW ADDITION
- 8 EXISTING REFUSE DUMPSTER & RECYCLING ENCLOSURE RECONSTRUCTED PER CURRENT CITY OF ALBUQUERQUE STANDARDS -- SEE DETAILS
- 9 EXISTING FENCE AND 4'-O" WIDE GATE (WHERE INDICATED) TO REMAIN
- NEW CHAIN-LINK FENCE. INSTALL 4' WIDE SERVICE GATE.
- NOT INTENDED FOR PUBLIC PEDESTRIAN USE NEW ASPHALT PAVING -- 2" PAVING ON 4" BASE
- (12) NEW LANDSCAPED AREA
- (3) REPAIR EXISTING FENCE AS REQUIRED FOR VERTICAL STABILITY
- (4) ADA PARKING SIGN -- SEE DETAIL
- (5) EXISTING FIRE HYDRANT
- (6) EXISTING MOTORCYCLE PARKING SIGN
- (7) EXISTING DISABLED PARKING SIGN
- (B) EXISTING VAN PARKING SIGN
- 19 NEW ROLLING GATE W/ ELECTRIC OPERATOR
- 20 INSTALL NEW ASPHALT PAVING TO MEET ADA COMPLIANCE ON EXISTING 6'-O" WIDE PATHWAY. NEW PAVING SHALL BE FLUSH WITH EXISTING CONDITIONS AT EXISTING COA SIDEWALK AND EXISTING BUILDING ENTRY CONCRETE PAD
- (21) EXISTING ADA SIDEWALK RAMP
- 22) NEW CHAIN-LINK FENCE
- 23 NEW TRANSFORMER -- SEE ELECTRICAL DRAWINGS
- CONCRETE RUNDOWN -- SEE GRADING AND DRAINAGE PLAN AND DETAILS
- 6" CONCRETE CURB, TYPICAL -- SEE DETAIL
- 26 SIDEWALK WITH TURNED-DOWN EDGE, TYPICAL -- SEE DETAIL
- EXISTING CURB MODIFIED FOR INSTALLATION OF NEW VEHICLE ACCESS, FENCE AND GATES
- LEVELED ASPHALT PAVING AS REQUIRED FOR PROPER FUNCTION OF ELECTRIC GATES
- 9 SIDEWALK RAMP -- SIMILAR TO CITY OF ALBUQUERQUE STANDARD DETAIL 2441
- RELOCATE OWNER'S EXISTING BIKE RACK TO LOCATION CHOSEN DIRECTLY BY THE OWNER. SECURE BIKE RACK ON CONCRETE PAD SIZED TO ACCOMMODATE EXISTING BIKE RACK CONDITIONS
- (3) EXISTING CITY OF ALBUQUERQUE CURB AND GUTTER
- 32 I FOOT CLEAR SIGHT TRIANGLE
- 63 ELECTRIC GATE LOCATED AT END OF ACCESS EASEMENT
- MANEUVERING CLEARANCE AT SWINGING DOORS, PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, CHAPTER 4

PARKING

- PARKING REQUIREMENTS
- EMERGENCY SHELTER = 7 SPACES • OFFICES 400 SF = 2 SPACES
- · TOTAL CAR PARKING SPACES REQUIRED 9 SPACES
- · MOTORCYCLE SPACE REQUIRED I SPACE
- · BICYCLE SPACE REQUIRED 5 SPACES (I PER 6 OF 25 RESIDENTS)

· PARKING PROVIDED

- EXISTING = 14 SPACES (INCLUDING | DISABLED VAN)
- NEW = 12 SPACES (INCLUDING | DISABLED VAN) · TOTAL CAR PARKING SPACES PROVIDED - 26 SPACES
- · MOTORCYCLE SPACE PROVIDED
- · BICYCLE SPACES PROVIDED
- (INCLUDING 2 DISABLED VAN) - I SPACE

- 5 SPACES

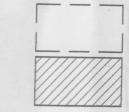
LANDSCAPING

- LANDSCAPE REQUIREMENTS
- · 51,656 SF- TOTAL LOT AREA
- (15,200 SF- BUILDING AREA) . (1,000 SF- EXTERIOR DECK AREA)
- (6,168 SF- PARKING AREA)
- 29,288 NET LOT AREA • 4,393 SF REQUIRED (29,888 SF X .15)
- · LANDSCAPE AREA PROVIDED
- · 7,280 SF (FRONT / PARKING AREA EXISTING) · 4,932 SF (GARDEN - EXISTING)
- · 2,195 SF (NEW)
- · 14,407 SF (TOTAL)

GENERAL NOTES:

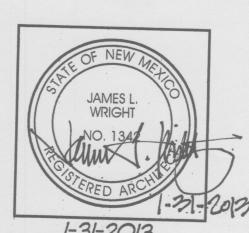
THIS DRAWING IS INTENDED FOR GENERAL REFERENCING AND OVERALL SITE DIMENSIONS REFER TO THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR DETAILED REQUIREMENTS OF THIS PROJECT

LEGEND:



NEW ADDITION

EXISTING BUILDINGS TO REMAIN





ENTER 0 0

19 NOV., 2012

REVISIONS:

29 JAN., 2013 31 JAN., 2013

