# CITY OF ALBUQUERQUE



October 13, 2017

J. Graeme Means, P.E. High Mesa Consulting Group 6010 B Midway Park Blvd NE Albuquerque, NM 87109

RE: Penske Truck Leasing Addition 1400 Candelaria NE Grading and Drainage Plan Engineer's Stamp Date 10/9/17 (File: H15D052)

Dear Mr. Means:

Based on the information provided in your submittal received on 10/10/17, this plan is approved for Building Permit with the following recommendation:

1. Perforate the pipe and add gravel bedding to allow the stormdrain to dewater.

PO Box 1293

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Albuquerque

Sincerely,

NM 87103

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services

www.cabq.gov

THE PROJECT SITE IS AN EXISTING DEVELOPED COMMERCIAL SITE. THE SITE IS LOCATED NEAR THE INTERSECTION OF CANDELARIA AVE NE AND PAN AMERICAN FREEWAY (SOUTH BOUND). THE PROPOSED PROJECT SCOPE IS TO REMOVE AN EXISTING BUILDING AND REPLACE IT WITH A LARGER BUILDING ADDITION THAT CONNECTS TO THE MAIN BUILDING. THE DRAINAGE DESIGN INTENT SHALL BE TO MAINTAIN THE EXISTING DRAINAGE PATTERNS OF THE SITE ESTABLISHED BY THE ORIGINAL 1993 (CERTIFIED 1997) APPROVED PLAN FOR THIS SITE.

THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL

#### II. PROJECT DESCRIPTION

AS SHOWN BY PANEL 332 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, REVISED SEPTEMBER 26, 2008, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

#### III. BACKGROUND DOCUMENTS

#### THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- GRADING AND DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES) DATED 8/06/1993 AND CERTIFIED 08/12/1997. THIS 1993 ESTABLISHED THE EXISTING DRAINAGE PATTERN FOR THE SITE, WITH BASIN A-1 FREE DISCHARGING DIRECTLY TO CANDELARIA ROAD AND BASIN A-2 HAVING CONTROLLED DISCHARGE VIA A PRIVATE STORM DRAIN LINE THAT DISCHARGES TO CANDELARIA ROAD. THE 1993 RECORD DRAWING GRADING & DRAINAGE PLAN IS INCLUDED IN THIS CONSTRUCTION PLAN SET (SHEET 4) FOR REFERENCE.
- PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 11184, DATED 08/15/2017. THE SURVEY PROVIDES THE EXISTING CONDITIONS FOR THIS PROJECT. THE SURVEY IS INCLUDED IN THIS CONSTRUCTION PLAN SET (SHEET 2) FOR REFERENCE

#### IV. EXISTING CONDITIONS

THE PROJECT SITE CONSISTS OF AN EXISTING SUPPORT BUILDING LOCATED ADJACENT TO THE NORTHEAST CORNER OF THE EXISTING MAIN BUILDING, AND IS SURROUNDED ON THE REMAINING SIDES BY EXISTING ASPHALT PAVING. THE PROJECT SITE IS LOCATED WITHIN BASIN A-1 AS ESTABLISHED BY THE 1993 DRAINAGE PLAN, REFERENCED ABOVE. THE EXISTING SUPPORT BUILDING AND PAVEMENT GENERALLY DRAINS FROM SOUTHEAST TO NORTHWEST TO SURFACE FLOW INTO CANDELARIA ROAD NE

#### V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF REMOVAL OF THE EXISTING SUPPORT BUILDING AT THE NORTHEAST CORNER OF THE MAIN BUILDING, AND REPLACEMENT WITH A NEW LARGER BUILDING ADDITION AT THIS SAME CORNER. EXISTING IMPERVIOUS AREA WILL BE REMOVED AND REPLACED WITH NEW IMPERVIOUS AREA, THEREFORE THERE WILL BE NO CHANGE TO THE RUNOFF GENERATED BY THE SITE. RUNOFF FROM THE PROJECT AREA WILL CONTINUE TO DRAIN FROM SOUTHEAST TO NORTHWEST, PER THE EXISTING DRAINAGE PATTERN OF THE SITE

THE NEW BUILDING ADDITION WILL BLOCK A PORTION OF RUNOFF FROM THE EXISTING SITE THEREFORE, A NEW PRIVATE STORM DRAIN SYSTEM IS PROPOSED TO COLLECT THE RUNOFF SOUTH OF THE BUILDING AND ROUTE IT AROUND THE BUILDING TO DISCHARGE VIA BUBBLER IN THE PARKING LOT NORTH OF THE BUILDING. THIS STORM DRAIN ( $Q_{18"CAP} = 13.65$  CFS) IS SIZED TO CONVEY THE SITE RUNOFF FROM THE CONTRIBUTING AREA SOUTH OF THE BUILDING ( $Q_{100}$  = 3.4 CFS), SEE SHEET 4 FOR CONTRIBUTING AREA LIMITS

#### VI. FIRST FLUSH

DUE TO THE LIMITED SCOPE OF THE PROJECT, OPPORTUNITIES FOR THE CAPTURE AND TREATMENT OF THE FIRST FLUSH FROM THE NEW BUILDING IS CONSTRAINED. PER THE GEOTECH REPORT FOR THE SITE, LANDSCAPED WATER HARVESTING AREAS ADJACENT TO THE BUILDING ARE DISALLOWED, SO NO NEW LANDSCAPED TREATMENT AREAS COULD BE CONSTRUCTED. STORMWATER RUNOFF GENERATED BY THE NEW BUILDING WILL DRAIN ACROSS THE NORTH PARKING LOT VIA EXISTING PAVED FLOWLINE TO AN EXISTING LANDSCAPED STRIP ADJACENT TO CANDELARIA ROAD. THIS LANDSCAPED AREA WILL BE REGRADED AND DEPRESSED TO CAPTURE AND TREAT THE FIRST FLUSH RUNOFF TO THE MAXIMUM EXTENT PRACTICABLE.

# VII. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING AND PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) THE LIMIT AND CHARACTER OF TI EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED IMPROVEMENTS WILL NOT CHANGE THE PEAK DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THE SITE. THE PROPOSED IMPROVEMENTS WILL GENERALLY DRAIN FROM SOUTHEAST TO NORTHWEST INTO LANDSCAPED WATER HARVESTING AREAS TO TREAT THE FIRST FLUSH RUNOFF BEFORE FREE DISCHARGING INTO CANDELARIA ROAD.

# VIII. CALCULATIONS

NO OVERALL SITE CALCULATIONS WERE PREPARED AS THIS PROJECT WILL REPLACE EXISTING IMPER VIOUS AREA WITH NEW IMPER VIOUS AREA, RESULTING IN NO CHANGE TO RUNOFF GENERATED. PROJECT SPECIFIC CALCULATIONS ARE INCLUDED FOR THE NEW BUILDING FIRST FLUSH RUNOFF GENERATED. AS WELL AS FOR THE CONTRIBUTING AREA RUNOFF SOUTH OF THI NEW BUILDING. 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, WAS USED IN THESE CALCULATIONS. IN ADDITION, VOLUME OF THE PROPOSED DEPRESSED LANDSCAPED AREA INTENDED FOR FIRST FLUSH TREATEMENT CALCULATED USING THE AVERAGE END-AREA METHOD. CALCULATIONS FOR THE NEW PRIVATE STORM DRAIN CAPACITY WERE PERFORMED USING FLOWMASTER V6.0, BASED UPON MANNING'S EQUATION FOR GRAVITY FLOW IN PIPES.

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

- 1. THIS PROJECT REPRESENTS A MODIFICATION TO AN EXISTING DEVELOPED SITE. 2. THE PROPOSED IMPROVEMENT WILL MAINTAIN AND NOT ALTER THE EXISTING
- DRAINAGE PATTERNS OF THE SITE. 3. THE PROPOSED IMPROVEMENTS WILL RESULT IN NO CHANGE TO THE DEVELOPED PEAK
- DISCHARGE AND VOLUME OF RUNOFF VOLUME GENERATED BY THE SITE. 4. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM
- PROPERTIES OR DOWSTREAM DRAINAGE CONDITIONS
- 5. PROPOSED WATER HARVESTING AREAS ARE SIZED TO CAPTURE AND TREAT THE FIRST FLUSH RUNOFF FROM THE NEW BUILDING TO THE MAXIMUM EXTENT PRACTICABLE. 6. THIS SUBMITTAL IS MADE IN SUPPORT OF BUILDING PERMIT APPROVAL

PENSKE

Truck Leasing

#### **CALCULATIONS**

### **BUILDING CHARACTERISTICS** PRECIPITATION ZONE = 2.35 IN $P_{100, 6 HR} = P_{360} =$ 1,169 SF TOTAL PROJECT AREA (A<sub>T</sub>) = 0.03 AC LAND TREATMENT **DEVELOPED LAND TREATMENT** TREATMENT AREA (SF/AC) С 1.169 | SF D

## **BUILDING FIRST FLUSH CALCULATIONS**

BUILDING SQUARE FOOTAGE = 1,170 SF (0.03 AC) RETENTION REQUIREMENT <u>a. VOLUME</u>  $V_{RQ} = ((P_{FF}-IA_D)/12)A_D$ 30 CF ((0.44-0.10)/12)(1170.00) =35 CF LANDSCAPED WATER HARVESTING CAPACITY =

LANDSCAPED WATER HARVESTING CAPACITY (35 CF) > VRQ (30 CF)

0.03 AC

#### III. CONTRIBUTING AREA CHARACTERISTICS PRECIPITATION ZONE = 2.35 IN $P_{100, 6 HR} = P_{360} =$ 31,095 SF TOTAL PROJECT AREA (AT) = 0.71 AC

LAND TREATMENTS				
1.	DEVELOPED LAND TREATMENT			
	TREATMENT	AREA (SF/AC)		%
	А			
	В			
	С			
	D	31,095	SF	100
		0.71	AC	

#### IV. CONTRIBUTING AREA HYDROLOGY

# DEVELOPED CONDITION

# 100-YR STORM

<u>a. VOLUME</u>

 $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$  $E_W = (0.53*0.00) + (0.78*0.00) + (1.13*0.00) + (2.12*0.71)/0.71 =$ 2.12 IN 5,490 CF  $V_{100.6 \, HR} = (E_W/12)A_T = (2.12/12)0.71 =$ 

 $Q_{P100} = Q_{PA}A_A + Q_{PB}A_B + Q_{PC}A_C + Q_{PD}A_D$ 

=  $(1.56 * 0.00) + (2.28 * 0.00) + (3.14 * 0.00) + (4.70 * 0.71) = Q_{P100} =$  3.4 CFS

# STORM DRAIN CAPACITY

18" STORM DRAIN

a. CAPACITY (PER FLOWMASTER) Q<sub>18" CAP</sub> = **13.65 CFS** 

Q<sub>18" CAP</sub> (13.65 CFS) > Q<sub>P100</sub> (3.4 CFS)

∴ OKAY

**LEGEND** ASPH ASPHALT PAVING ANTI-SIPHON VALVE BOH BUILDING OVERHANG C&G CONCRETE CURB AND GUTTER CONCRETE CURB CONCRETE DRIVE PAD CLD CENTERLINE DOOR CLF/BW CHAIN LINK FENCE WITH BARBED WIRE SEWER CLEANOUT CONC CONCRETE CSW CONCRETE SIDEWALK DCO DOUBLE SANITARY SEWER CLEANOUT E/PM ELECTRIC LINE BY PAINT MARK ELECTRIC CONDUIT ELECTRIC DISCONNECT ELECTRIC JUNCTION BOX ELECTRIC OUTLET FLOWLINE G/PM GAS LINE BY PAINT MARK METAL GUARD POST GRAVEL HANDICAPPED PARKING SPACE SIGN IRRIGATION CONTROL BOX IRRIGATION VALVE BOX OHC(1 OVERHEAD COMMUNICATIONS LINE (# OF LINES) OHE(1 OVERHEAD ELECTRIC LINE (# OF LINES) PAINTED PARKING STALL STRIPE RIVER ROCK SANITARY SEWER LINE BY PAINT MARK TOP OF ASPHALT TOP OF CURB TOP OF CONCRETE

SAS/PM TOP OF GRATE VALLEY GUTTER WATER LINE BY PAINT MARK W/PM WCR WHEEL CHAIR RAMP WLP WOOD LIGHT POLE WATER METER BOX

CONIFEROUS TREE

WHEEL STOP WVB WATER VALVE BOX 1.0'ø TREE TRUNK DIAMETER

ASV

CDP

CO

EDC

EJB

GRV

HCS

ICB

# DECIDUOUS TREE

SHRUB TOP OF ASPHALT PAVEMENT TOP OF CURB TOP OF GRATE **EXISTING SPOT ELEVATION** 

+ 27.31 **27.25** PROPOSED SPOT ELEVATION EXISTING FLOWLINE PROPOSED FLOWLINE --5030-- **EXISTING CONTOUR** PROPOSED CONTOUR

EXISTING DIRECTION OF FLOW PROPOSED DIRECTION OF FLOW --- RIGHT OF WAY LINE — PUBLIC EASEMENT LINE



HIGH POINT / DIVIDE PROPOSED CONCRETE PROPOSED ASPHALT PAVING PROPOSED LANDSCAPE AREA

#### CONSTRUCTION NOTES:

- 1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR APPROVED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS—PUBLIC WORKS CONSTRUCTION-1986-UPDATE NO. 9.
- 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING UTILITIES.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, 7 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.
- 4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND
- 5. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES
- 6. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE AND ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY DISTRIBUTION MAPS, AVAILABLE RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (2017.037.1 SITE UTILITY DIAGRAM DATED 08-02-2017). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET #17JU280383). UTILITY LINES SHOWN ON THIS DRAWING ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, TH 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 SURVEYOR 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 PROPERTY OWNER, DEVELOPER, OR 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 PROPERTY OWNER, DEVELOPER, OR 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
- LINES AND FACILITIES. 7. 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 O AVOID ANY PONDING ADJACENT TO THE STRUCTURE. FOR CONSTRUCTION DETAILS, REFER TO LANDSCAPING PLAN.

REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE

8. THE GRADES INDICATED ON THIS PLAN ARE FINISHED GRADES UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING SUBGRADE AT ELEVATIONS THAT SHALL ACCOMMODATE PROPOSED IMPROVEMENTS AS INDICATED ON THE PLANS INCLUDING, BUT NOT LIMITED TO, SURFACE DRAINAGE STRUCTURES, PAVING AND LANDSCAPING SURFACING.

# LEGAL DESCRIPTION

LOT E, SUNDT'S INDUSTRIAL AREA

INDEX OF CIVIL DRAWINGS

COVER SHEET, VICINITY MAP, FIRM, LEGAL

PARTIAL TOPOGRAPHIC AND UTILITY SURVEY

DESCRIPTION

DESCRIPTION, DRAINAGE PLAN & CONSTRUCTION

RECORD GRADING PLAN (FOR INFORMATION ONLY)

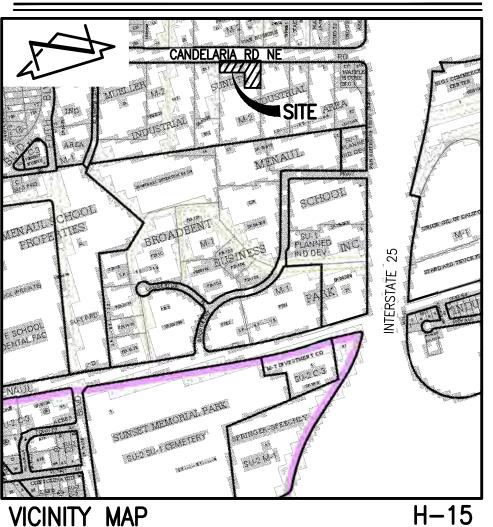
PAVING AND DRAINAGE SECTIONS AND DETAILS

SHEET

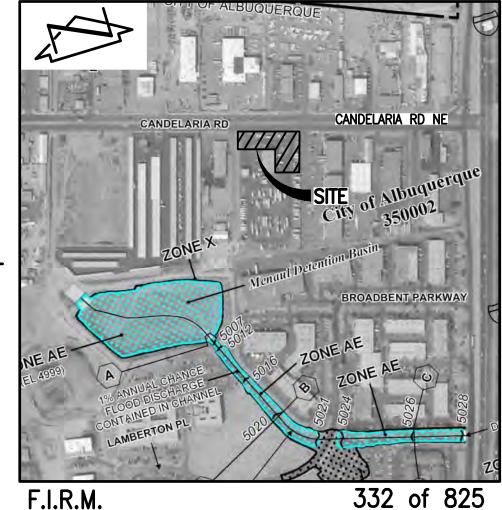
SITE PLAN

GRADING PLAN





VICINITY MAP SCALE: 1" = 750



DATE: 09-26-2008

# PROJECT BENCHMARK

AGRS 3" BRASS DISC STAMPED "CANDELARIA 1979", SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND, NEAR THE NORTHEAST QUADRANT OF THE INTERSECTION OF CANDELARIA BLVD AND UNIVERSITY AVE NE. NORTHING 1,497,091.458 (GRID) 1,497,091.46 (GROUND) EASTING 1,528,901.06 (GRID) 1,528,901.06 (GROUND) ELEVATION = 5090.846 FEET (NAVD 1988)

# TEMPORARY BENCHMARK (T.B.M.) #1

A MAG NAIL IN ASHALT NEAR THE WESTERN MOST DRIVE ENTRANCE TO THE SITE, AS SHOWN ON THIS SHEET. NORTHING 1,497,470.95 (GROUND) EASTING 1,526,806.99 (GROUND)

# TEMPORARY BENCHMARK (T.B.M.) #2

ELEVATION = 5023.78 FEET (NAVD 1988)

A MAG NAIL IN ASHALT NEAR THE EASTERN MOST DRIVE ENTRANCE TO THE SITE, AS SHOWN ON THIS SHEET. NORTHING 1,497,402.05 (GROUND) EASTING 1,527,019.81 (GROUND) ELEVATION = 5031.27 FEET (NAVD 1988)

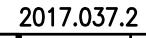
# TEMPORARY BENCHMARK (T.B.M.) #3

A MAG NAIL IN ASHALT NEAR THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.

NORTHING 1,497,248.90 (GROUND) EASTING 1,526,952.87 (GROUND) ELEVATION = 5031.33 FEET (NAVD 1988)



# 2017.037.2



SITE REVIEW 10/9/2017 SHEET NO:

# AN ADDITION TO PENSKE TRUCK LEASING 1400 CANDELARIA ROAD NE ALBUQUERQUE, NEW MEXICO



REVISIONS

AGRS 3" BRASS DISC STAMPED "CANDELARIA 1979", SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND, NEAR THE NORTHEAST QUADRANT OF THE INTERSECTION OF CANDELARIA BLVD AND UNIVERSITY AVE NE.

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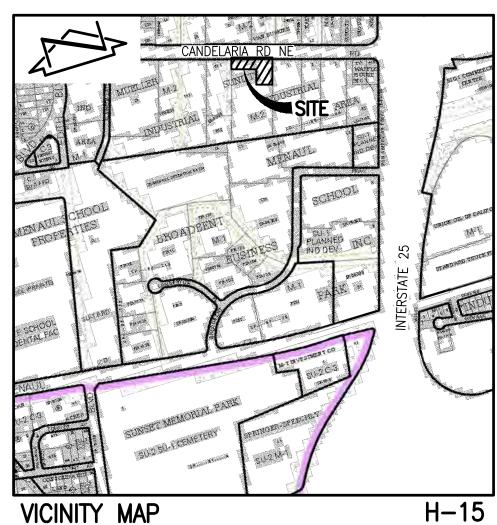
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EASTING 1,526,952.87 (GROUND)

ELEVATION = 5031.33 FEET (NAVD 1988)



VICINITY MAP

SCALE: 1" = 750'

LEGEND ASPH ASPHALT PAVING ASV ANTI-SIPHON VALVE BUILDING OVERHANG CONCRETE CURB AND GUTTER CC CONCRETE CURB CONCRETE DRIVE PAD CENTERLINE DOOR CHAIN LINK FENCE WITH BARBED WIRE CLF/BW SEWER CLEANOUT ASPHALT PAVEMENT CONCRETE ASPHALT PAVEMENT CANDELARIA BLVD CSW CONCRETE SIDEWALK DOUBLE SANITARY SEWER CLEANOUT ELECTRIC LINE BY PAINT MARK E/PM ELECTRIC CONDUIT VG28.94 EDC ELECTRIC DISCONNECT FL28.84 FL21.22 FL21.27 VALLEY GUTTER FL22.52 EJB ELECTRIC JUNCTION BOX ELECTRIC OUTLET FLOWLINE GAS LINE BY PAINT MARK METAL GUARD POST GRAVEL HCS HANDICAPPED PARKING SPACE SIGN ICB IRRIGATION CONTROL BOX IRRIGATION VALVE BOX CONC RETAINING WALL OVERHEAD COMMUNICATIONS LINE (# OF LINES) OVERHEAD ELECTRIC LINE (# OF LINES) PAINTED PARKING STALL STRIPE RIVER ROCK ASPHALT PAVEMENT SANITARY SEWER LINE BY PAINT MARK TOP OF ASPHALT TOP OF CURB ASPHALT PAVEMENT +TA30.32 TOP OF CONCRETE TOP OF GRATE VALLEY GUTTER WATER LINE BY PAINT MARK WHEEL CHAIR RAMP WOOD LIGHT POLE WMB WATER METER BOX TA22.57 WS WHEEL STOP WATER VALVE BOX PS(TYP) WLP31.42 O 1.0'ø TREE TRUNK DIAMETER 29.69 GP 29.70 EBB29.67 CONC RETAINING WALL CONIFEROUS TREE TA30,76 DECIDUOUS TREE -METAL STAIRS

# NOTES

- 1. A TOPOGRAPHIC AND UTILITY SURVEY WAS PERFORMED IN AUGUST, 2017. THIS IS NOT A BOUNDARY SURVEY.
- 2. ALL DISTANCES ARE GROUND DISTANCES.
- 3. SITE LOCATED WITHIN SECTION 9, TOWNSHIP 10 NORTH, RANGE 3 EAST, N.M.P.M.
- 4. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE AND ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY DISTRIBUTION MAPS, AVAILABLE RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (2017.037.1 SITE UTILITY DIAGRAM DATED 08-02-2017) IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET #17JU280383). UTILITY LINES SHOWN ON THIS DRAWING 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 SURVEYOR 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 PROPERTY OWNER, DEVELOPER, OR 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 PROPERTY OWNER, DEVELOPER, OR 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.
- 5. THIS TOPOGRAPHIC AND UTILITY SURVEY HAS BEEN PREPARED BASED UPON NAVD 88 DATUM. PREVIOUS SURVEYS AND ABCWUA/CITY OF ALBUQUERQUE RECORD DRAWINGS OF THIS AREA HAVE BEEN CONDUCTED BASED UPON NGVD 29 DATUM. SPECIAL CARE SHOULD BE EXERCISED WHEN COMPARING ELEVATIONS FROM THIS SURVEY TO CURRENT AND PREVIOUS SURVEYS, PLANS AND AS—BUILT DOCUMENTS

# CONTROL SURVEY NOTE

A CONTROL SURVEY WAS CONDUCTED AT THE SITE ON AUGUST 13, 2017. CONTROL WAS PROJECTED ONTO THE SUBJECT SITE UTILIZING RTK GPS OBSERVATIONS COMBINED WITH GEOID 12B(CONUS) TO ESTABLISH HORIZONTAL AND VERTICAL POSITIONS BASED UPON NAD83/NAVD 88 DATUM. THE RTK OBSERVATIONS WERE USED TO ESTABLISH THE TEMPORARY BENCHMARKS AT THE PROJECT SITE. THE POINTS OBSERVED HAVE BEEN QUALITY CONTROLLED FOR RELATIVE ACCURACY. AN AGRS CONTROL STATION IN THE VICINITY OF THE PROJECT WAS OBSERVED IN ORDER TO PROVIDE REFERENCE TIES TO THE SITE. THE CONTROL STATION USED TO PROJECT FROM GRID TO GROUND FOR THIS PROJECT IS AGRS CONTROL STATION "CANDELARIA 1979".

# SURVEYORS CERTIFICATION

I, CHARLES G. CALA, JR., NEW MEXICO PROFESSIONAL SURVEYOR NO. 11184, DO HEREBY CERTIFY; THAT THIS TOPOGRAPHIC AND UTILITY SURVEY AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.





8/15/2017

HIGH Consulting Group
Engineers, Surveyors & Subsurface Utility Consultants

6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109

Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

TA22.60

PARTIAL TOPOGRAPHIC AND UTILITY SURVEY
PENSKE

TW32.92

TW34.39

WLP 31.92-()-

32.39

PAINTED

ISLAND

TW34.77

TA30.90 TA31.72

CONC RETAINING WALL

TA30.57\_

T.B.M. #3 ELEV.=5031.33

+ TA30.76

-∱TA30.00

+TA29.43

+TA29.51

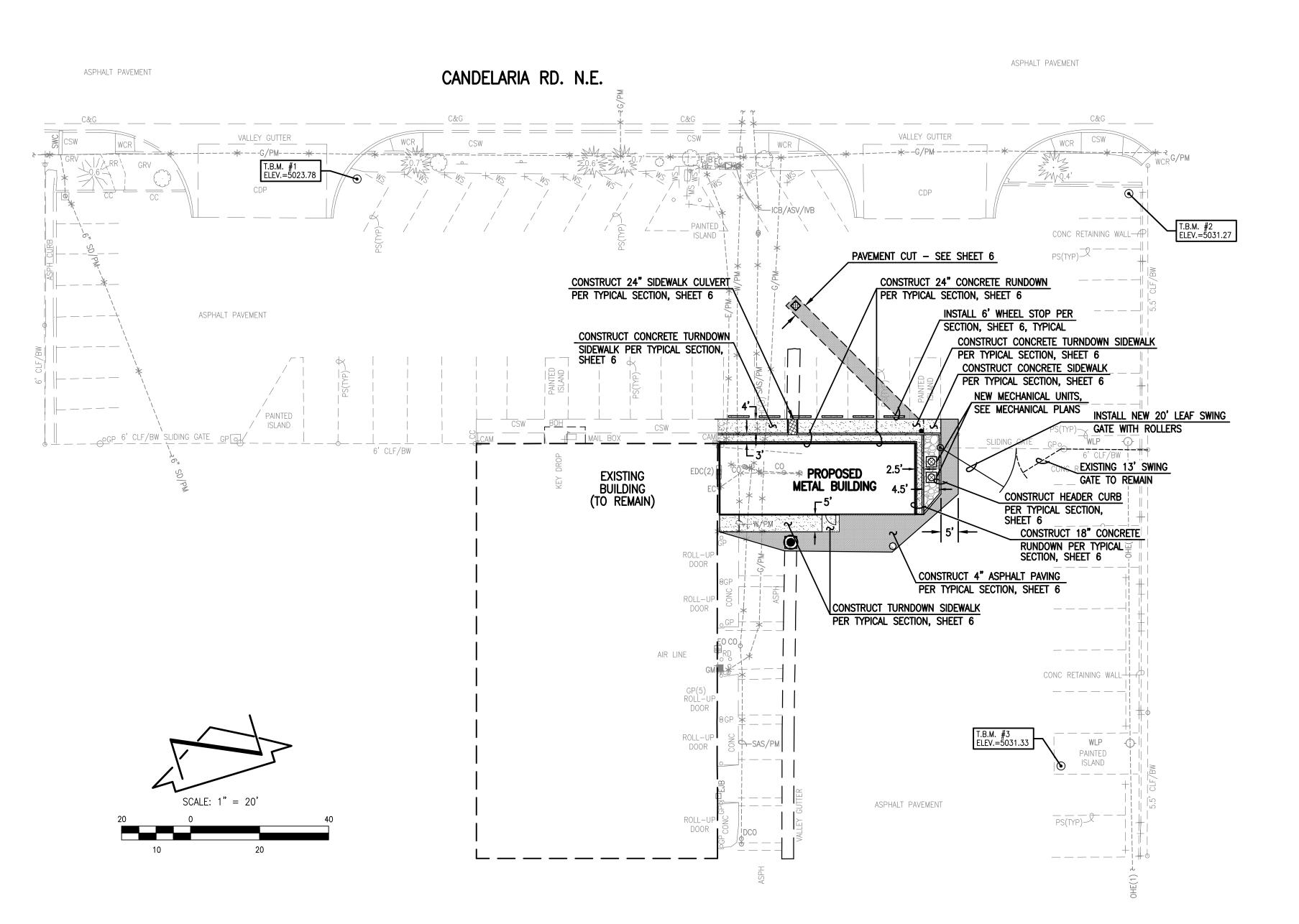
十TA29.43

ASPHALT | PAVEMENT

+ TA30.06

₹V\$28.91

FL28.99



NOTE:

REFER TO DEMO PLAN FOR REMOVAL OF EXISTING METAL BUILDING AND RELATED APPURTENANCES NOT SHOWN HEREON FOR CLARITY.

# SURVEY NOTE:

THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 08/15/2017 (2017.037.1).



AN ADDITION TO
PENSKE TRUCK LEASING
1400 CANDELARIA ROAD NE
ALBUQUERQUE, NEW MEXICO



6010-B Midway Park Blvd. NE • Albuquerque, New Mexico 87109 Phone: 505.345.4250 • Fax: 505.345.4254 • www.highmesacg.com

#### PROJECT BENCHMARK

AGRS 3" BRASS DISC STAMPED "CANDELARIA 1979", SET IN TOP OF A CONCRETE POST FLUSH WITH GROUND, NEAR THE NORTHEAST QUADRANT OF THE INTERSECTION OF CANDELARIA BLVD AND UNIVERSITY AVE NE.

NORTHING 1,497,091.458 (GRID) 1,497,091.46 (GROUND)

EASTING 1,528,901.06 (GRID) 1,528,901.06 (GROUND)

# TEMPORARY BENCHMARK (T.B.M.) #1

ELEVATION = 5090.846 FEET (NAVD 1988)

A MAG NAIL IN ASHALT NEAR THE WESTERN MOST DRIVE ENTRANCE TO THE SITE, AS SHOWN ON THIS SHEET.

NORTHING 1,497,470.95 (GROUND)

EASTING 1,526,806.99 (GROUND)

ELEVATION = 5023.78 FEET (NAVD 1988)

#### TEMPORARY BENCHMARK (T.B.M.) #2

A MAG NAIL IN ASHALT NEAR THE EASTERN MOST DRIVE ENTRANCE TO THE SITE, AS SHOWN ON THIS SHEET.

NORTHING 1,497,402.05 (GROUND)

EASTING 1,527,019.81 (GROUND)

ELEVATION = 5031.27 FEET (NAVD 1988)

## TEMPORARY BENCHMARK (T.B.M.) #3

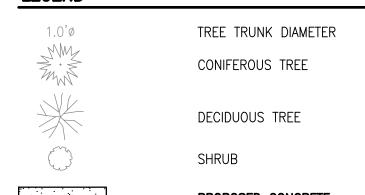
ELEVATION = 5031.33 FEET (NAVD 1988)

A MAG NAIL IN ASHALT NEAR THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.

NORTHING 1,497,248.90 (GROUND)

EASTING 1,526,952.87 (GROUND)

# LEGEND





PROPOSED CONCRETE

PROPOSED GRAVEL AREA

PROPOSED ASPHALT PAVING

SITE

SATE

214 Truman Street NE — Albuquerque, New Mexico 87108—1333 505/255—497

★ Kevin Georges & Associates

Architecture & Planning

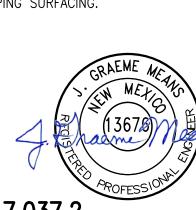
H - 15

VICINITY MAP

SCALE: 1" = 750'

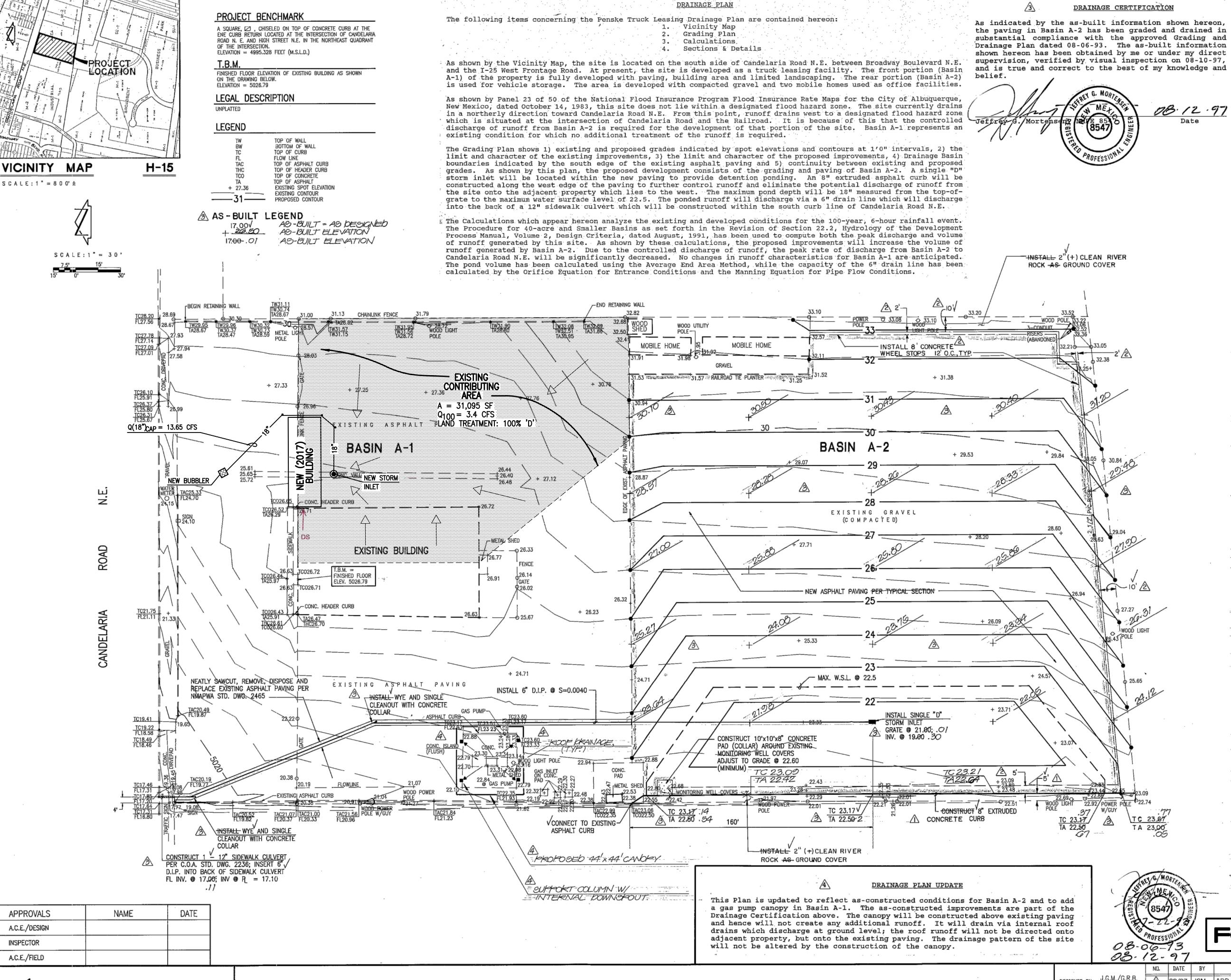
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- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
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- 5. ALL CONSTRUCTION WITHIN PUBLIC RIGHT—OF—WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- 6. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE AND ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY DISTRIBUTION MAPS, AVAILABLE RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (2017.037.1 SITE UTILITY DIAGRAM DATED 08-02-2017). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET #17JU280383). UTILITY LINES SHOWN ON THIS DRAWING 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 SURVEYOR 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 COMPLETI THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE PROPERTY OWNER, DEVELOPER, OR 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 PROPERTY OWNER, DEVELOPER, OR 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.
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SITE REVIEW

2017.037.2



Site Characteristics

Precipitation Zone  $P_{6,100} = P_{360} = Total Area (A_m)$ 4.54 ac.

A. Basin A (A01 + A-2)

Existing Land Treatment

Treatment Area (sf/ac) 1,550/0.04 98,200/2.26 97,650/2.24

CALCULATIONS

5. Developed Land Treatment

A. Basin A-1

<u>Treatment</u>

<u>Treatment</u> Area (sf/ac) 1,550/0.04 94,700/2.18 98.4 Basin A-2

Area (sf/ac)

1,400/0.03

99,750/2.29

98.6

Existing Condition - (Basin A)

 $= (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$ = (0.78) (0.04) + (1.13) (2.26) + (2.12) (2.24) / 4.54 = 1.62"  $V_{100} = (1.62/12)4.54 = 0.6129 \text{ ac.ft.}; 26,700 \text{ cf}$ 

2. Peak Discharge

 $Q_{\rm p} = Q_{\rm pA} A_{\rm A} + Q_{\rm pB}A_{\rm B} + Q_{\rm pC}A_{\rm C} + Q_{\rm pD}A_{\rm D}$   $Q_{\rm p} = Q_{100} = (2.28)(0.04) + (3.14)(2.26) + (4.70)(2.24) = 17.7 \text{ cfs}$ 

Developed Condition

Basin A-1

=  $(E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$ = (0.78) (0.04) + 2.12 (2.18) / 4.54 = 1.03"

 $V_{100} = (1.03/12)(4.54) = 0.3897 \text{ ac.ft.}; 17,000 \text{ cf}$ 

2. Peak Discharge

 $Q_{\rm p} = Q_{\rm PA} A_{\rm A} + Q_{\rm PB} A_{\rm B} + Q_{\rm PC} A_{\rm C} + Q_{\rm PD} A_{\rm D}$   $Q_{\rm p} = Q_{100} = (2.28)(0.04) + (4.70)(2.18) = 10.3 cfs$ 

B. Basin A-2

Volume

= (1.13)(0.03)+2.12(2.29)/4.54 = 1.08"

 $V_{100} = (1.08/12)(4.54) = 0.4086$  ac.ft.; 17,800 cf

2. Peak Discharge

 $Q_p = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$   $Q_p = Q_{100} = (3.14)(0.03) + (4.70)(2.29) = 10.9 cfs$ 

(17,000 + 17,800) - 26,700 = 8,100 cf (increase)17.7 - (10.3 + 0.4) = 7.0 cfs (decrease)

4,515

4,515

Pond Volume

Elev.  $\Sigma$  Vol (cf)

9,030 14,148 18,663 22.5 20,928

Volume at Max. W.S.L. = 18,663 cf >  $V_{100}$  = 17,800 cf

# Pond Discharge

Pipe flow (Manning Equation)

Using Feild's Hydraulics Calculator for Gravity Flow in Pipes

n = 0.013d = 6"

s = 0.0040

q = 0.36 cfs

 $V_{100} = 49,444 \text{ sec}$   $t = V_{100}/q = 824 \text{ min} = 13.7 \text{ hr} < 24 \text{ hr}$ 

Inlet Control (Orifice Equation)

 $Q = CA(2gh)^3$ Let:

C = 0.6

 $A = \pi/4(8")^2 = 0.35 \text{ sf}$  $g = 32.2 \text{ ft/sec}^2$ 

h = 22.5 - 19 - 0.25 = 3.25 ft

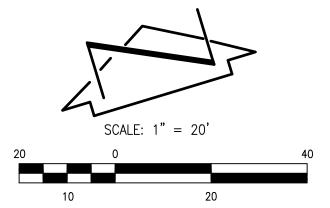
Q = 3.4 cfs > q $t = V_{100}/Q = 34,800 \text{ cf}/3.4 \text{ cfs} = 10,235 \text{ sec.} = 171 \text{ min.}$ = 2.8 hr. < 24 hrs.

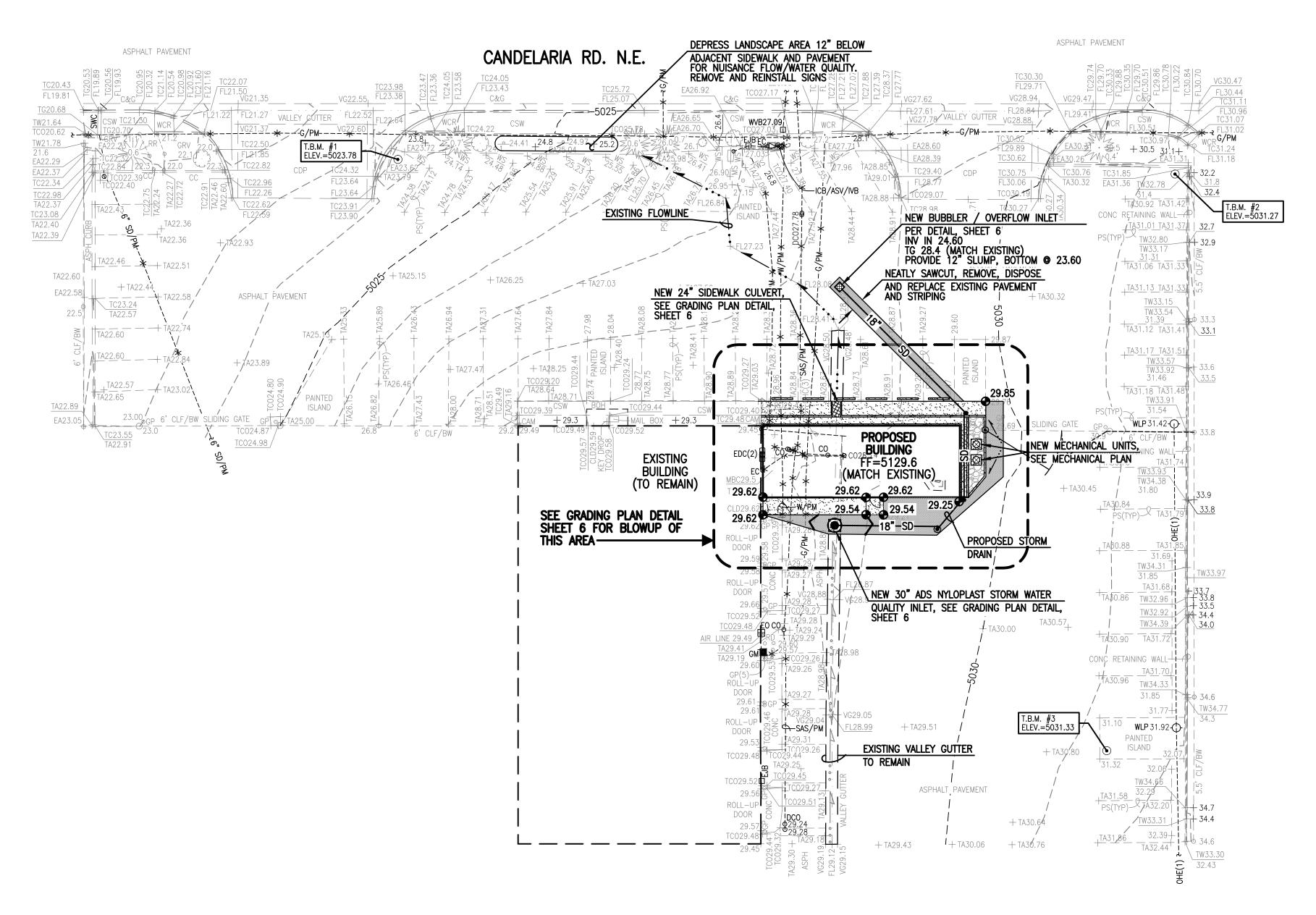
Pipe Flow Capacity Governs Discharge

# FOR INFORMATION ONLY

930515 DESIGNED BY J.G.M./G.R.B. 10/93 JGM REDUCE PAVING LIMITS; ADD WHEELSTOPS 07-1993 8/97 IGM AS BUILT & CERTIFY A 8/07 J.G.M. ADD CANDRY

GRADING AND DRAINAGE PLAN PENSKE TRUCK LEASING





GRADING SITE PLAN

SURVEY NOTE:

THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED 08/15/2017 (2017.037.1).



AN ADDITION TO PENSKE TRUCK LEASING 1400 CANDELARIA ROAD NE ALBUQUERQUE, NEW MEXICO



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2017.037.2 REVISIONS 10/9/201 SHEET NO: CHECKED E GRADING PLAN PROJECT NO 2017.21

**LEGEND** ASPHALT PAVING ASV ANTI-SIPHON VALVE BOH BUILDING OVERHANG C&G CONCRETE CURB AND GUTTER CONCRETE CURB CDP CONCRETE DRIVE PAD CLD CENTERLINE DOOR CLF/BW CHAIN LINK FENCE WITH BARBED WIRE SEWER CLEANOUT CO CONC CONCRETE CSW CONCRETE SIDEWALK DCO DOUBLE SANITARY SEWER CLEANOUT E/PM ELECTRIC LINE BY PAINT MARK ELECTRIC CONDUIT EDC ELECTRIC DISCONNECT ELECTRIC JUNCTION BOX ELECTRIC OUTLET FLOWLINE G/PM GAS LINE BY PAINT MARK METAL GUARD POST GP GRV GRAVEL HANDICAPPED PARKING SPACE SIGN ICB IRRIGATION CONTROL BOX IRRIGATION VALVE BOX OHC(1) OVERHEAD COMMUNICATIONS LINE (# OF LINES) OHE(1) OVERHEAD ELECTRIC LINE (# OF LINES) PAINTED PARKING STALL STRIPE RIVER ROCK SAS/PM SANITARY SEWER LINE BY PAINT MARK TOP OF ASPHALT TOP OF CURB TOP OF CONCRETE TOP OF GRATE VALLEY GUTTER

WATER LINE BY PAINT MARK

WHEEL CHAIR RAMP

WOOD LIGHT POLE WATER METER BOX

WHEEL STOP WATER VALVE BOX TREE TRUNK DIAMETER CONIFEROUS TREE

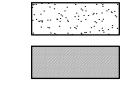
WCR

DECIDUOUS TREE

SHRUB

TOP OF ASPHALT PAVEMENT TOP OF CURB TOP OF GRATE **EXISTING SPOT ELEVATION 27.25** PROPOSED SPOT ELEVATION EXISTING FLOWLINE <del>\_\_\_\_</del>... PROPOSED FLOWLINE --5030-- **EXISTING CONTOUR** 

EXISTING DIRECTION OF FLOW PROPOSED DIRECTION OF FLOW --- RIGHT OF WAY LINE — PUBLIC EASEMENT LINE --+-- HIGH POINT / DIVIDE



PROPOSED CONCRETE

PROPOSED ASPHALT PAVING

PROPOSED GRAVEL AREA

214 Truman Street NE — Albuquerque, New Mexico 87108—1333 505/255—497

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Architecture & Planning

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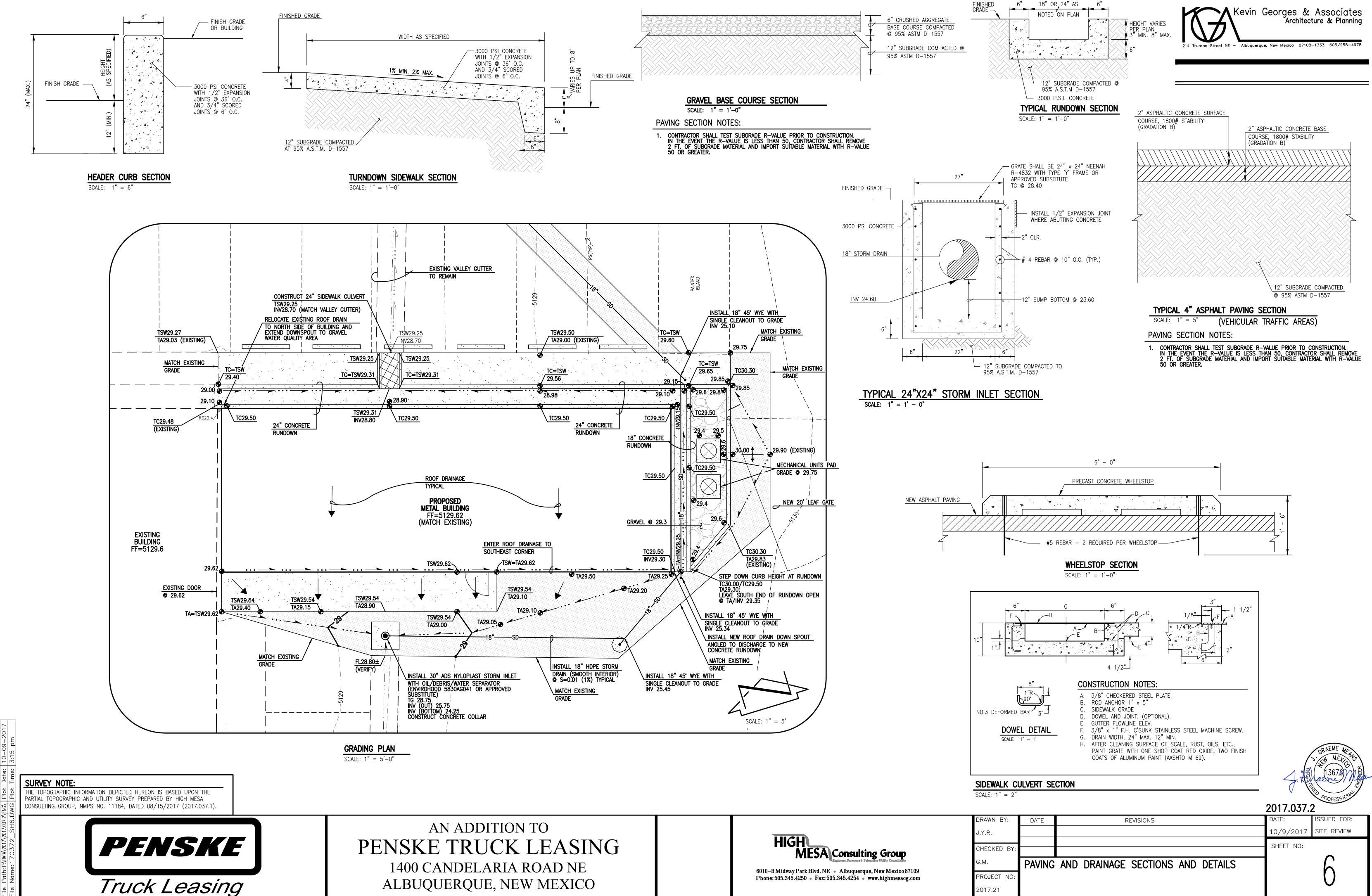
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SITE REVIEW



2017.21