CONSTRUCTION NOTES:

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- 5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, ABCWUA DISTRIBUTION MAPS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP, SITE UTILITY DIAGRAM (2015.181.5) DATED DECEMBER 01, 2015. IN ADDITION, UTILITY LINE—SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET #2015481336). UTILITY LINES THAT APPEAR ON THESE DRAWINGS 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.

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LEGAL DESCRIPTION:

HAWTHORNE ELEMENTARY SCHOOL AND PARK.

BENCHMARKS:

PROJECT BENCHMARK

AN AGRS 3 1/4" ALUMINUM DISK STAMPED "14-K20 1990"
SET FLUSH WITH TOP OF CURB ON THE MEDIAN APPROXIMATELY
122 FEET NORTH OF THE INTERSECTION OF WYOMING
BOULEVARD AND COPPER AVENUE N.E.
ELEVATION = 5381.93 FEET (NAVD 88)

T.B.M. #1

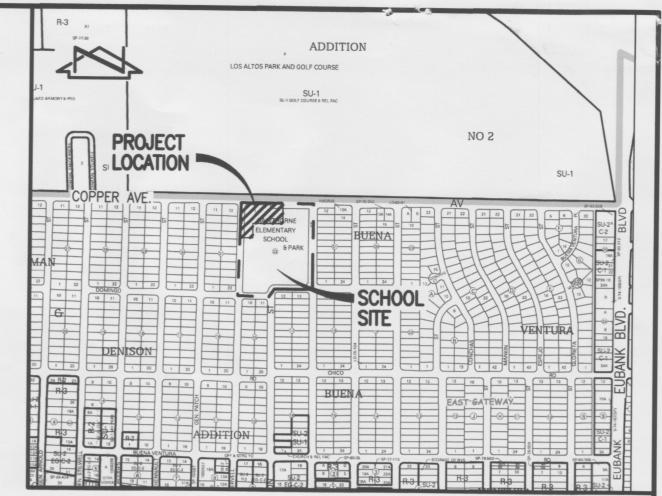
A CHISELED "+" AT THE TOP BACK OF CURB ON GENERAL SOMERVELL STREET N.E., AS SHOWN ON SHEET 3. ELEVATION = 5413.34 FEET (NAVD 88)

T.B.M. #2

A MAG NAIL W/WASHER SET IN ASPHALT IN THE SOUTHWESTERN PORTION OF THE SURVEY, AS SHOWN ON ON SHEET 3. ELEVATION = 5415.52 FEET (NAVD 88)

T.B.M. #3

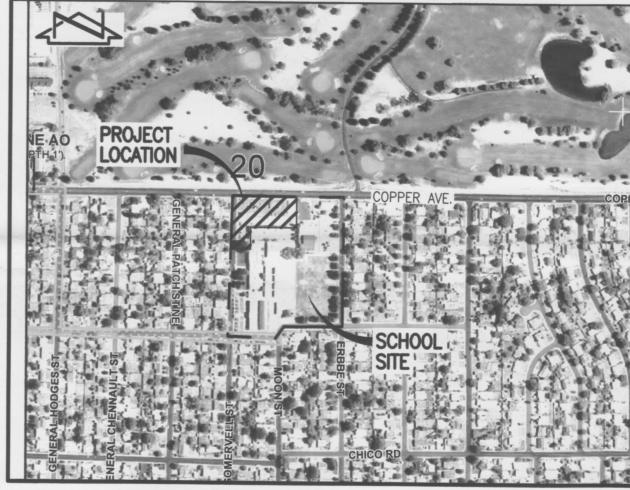
A MAG NAIL W/WASHER SET IN ASPHALT IN THE NORTHEASTERN PORTION OF THE SURVEY, AS SHOWN ON ON SHEET 3. ELEVATION = 5418.07 FEET (NAVD 88)



VICINITY MAP

K - 20

SCALE: 1" = 750'



F.I.R.M

SCALE: 1" = 500'

358 OF 825

AUGUST 16, 2012

INDEX OF DRAWINGS

1 OF 1 SUPPLEMENTAL SITE AND DRAINAGE INFORMATION

2 OF 13 DEMOLITION PLAN (FOR EXISTING CONDITIONS)
4 OF 13 GRADING PLAN

5 OF 13 DRAINAGE PLAN AND CALCULATIONS

6 OF 13 ACCESS RAMP DEMOLITION AND ENLARGED PLAN



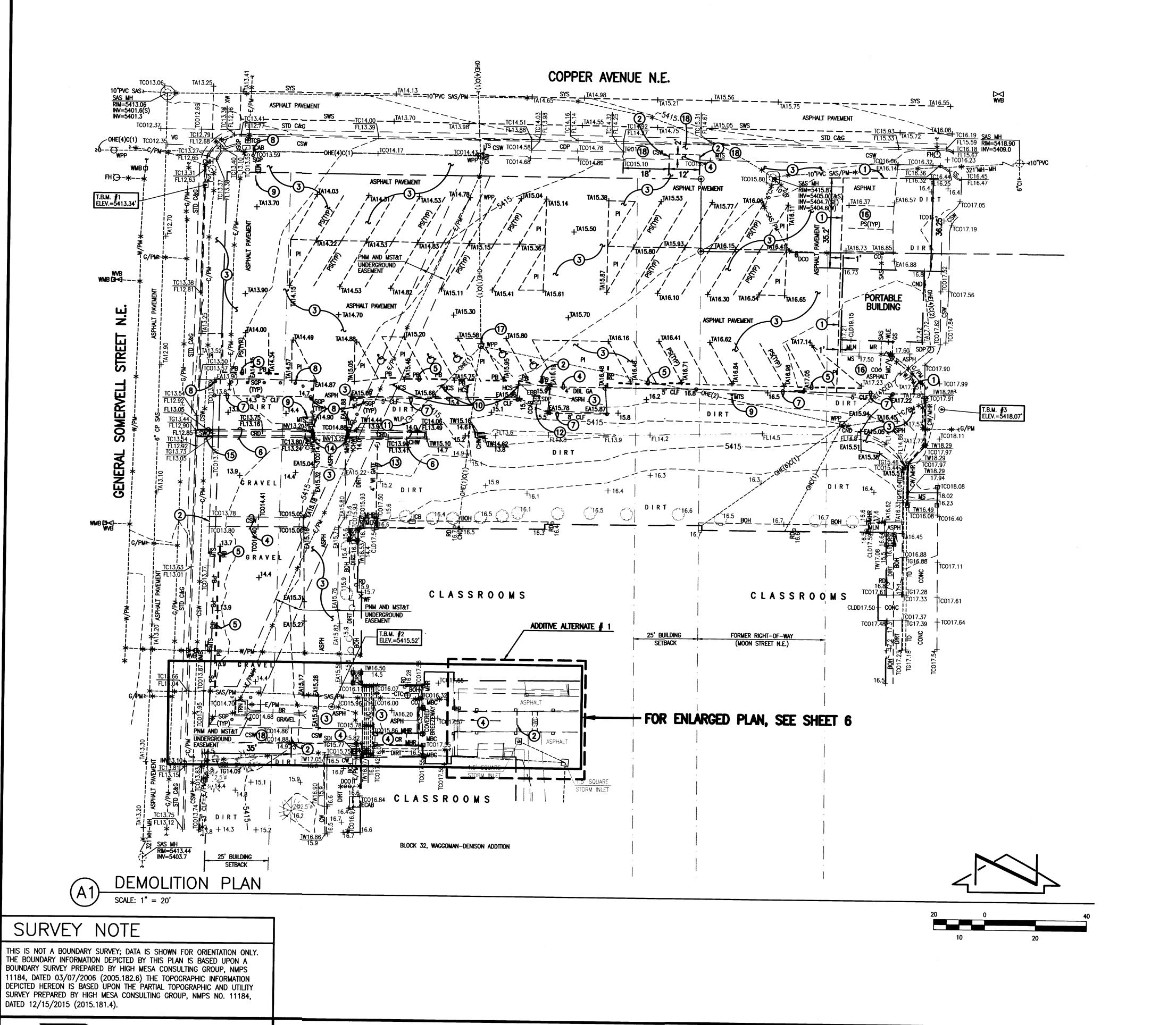
4-27-16

HIGH Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com SUPPLEMENTAL SITE AND DRAINAGE INFORMATION

NORTH PARKING LOT RECONSTRUCTION HAWTHORNE ELEMENTARY SCHOOL

		NO.	DATE	BY	REVISIONS	JOB NO.	0045 404 0
	DESIGNED BY						2015.181.2
ı	DRAWN BY S.C.C.					DATE	04-2016
ı	DIAMIT DI OIOIOI						04-2010
ı	APPROVED BY G.M.					SHEET	1 OF 1
ı							1 1



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KEYED NOTES:

(1) NEATLY SAWCUT EXISTING ASPHALT PAYING 2 NEATLY SAWCUT EXISTING CONCRETE SIDEWALK 3 REMOVE AND PULVERIZE EXISTING ASPHALT PAVING FOR PROCESSING WITH NATIVE SOIL TO MANUFACTURE IN SITU BASE COURSE

REMOVE AND DISPOSE OF EXISTING CONCRETE SIDEWALK,

REMOVE AND SALVAGE EXISTING WHEEL STOPS 6 REMOVE AND DISPOSE OF EXISTING CONCRETE RUNDOWN

REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE AND GATE, TYPICAL 8 REMOVE AND DISPOSE OF EXISTING STEEL GUARD POST,

9 REMOVE AND RETURN EXISTING METAL SIGN, TYPICAL 10 REMOVE AND RETURN EXISTING HANDICAPPED PARKING SIGN, TYPICAL

11 REMOVE AND DISPOSE OF EXISTING WOOD POWER POLE, REFER TO

12 REMOVE AND DISPOSE OF EXISTING SERVICE DROP POLE, ELECTRIC BREAKER BOX AND COMMUNICATION CABINET, REFER TO ELECTRICAL

13 REMOVE AND SALVAGE PIPE GATE

14 REMOVE AND DISPOSE OF EXISTING METAL HANDRAILS

15 EXISTING PUBLIC SIDEWALK CULVERT TO REMAIN 16 EXISTING ASPHALT PAVING TO REMAIN

17 EXISTING WOOD POWER POLE TO REMAIN, REFER TO ELECTRICAL

(18) EXISTING CONCRETE SIDEWALK TO REMAIN

LEGEND

ASPHALT BUILDING OVERHANG

BICYCLE RACK CURB AND GUTTER

COMMUNICATION LINE BY PAINT MARK (FIBER CONCRETE CURB

COMMUNICATION CABINET CONCRETE DRIVE PAD CONCRETE HEAD WALL

CAST IRON PIPE CHAIN LINK FENCE COMMUNICATION MANHOLE ELECTRIC CONDUIT

CLEANOUT CONCRETE PIPE CONCRETE RAMP CONCRETE RUNDOWN BUILDING CRAWLSPACE WITH DOOR CONCRETE STEPS

CONCRETE SIDEWALK CONCRETE TRASH CAN CONCRETE WALL CW/MHR

CONCRETE WALL WITH METAL HAND RAIL DOUBLE DOUBLE CLEANOUT ELECTRIC LINE BY PAINT MARK

EDGE OF ASPHALT ELECTRIC BREAKER BOX **ELECTRIC CABINET** FIRE HYDRANT FLOWLINE GAS LINE BY PAINT MARK

GATE POST GAS SERVICE HANDICAPPED PARKING SIGN IRRIGATION CONTROL BOX PIPE INVERT METAL BUILDING COLUMN

METER CAN WITH VALVE MANHOLE METAL HANDRAIL METAL LANDING METAL RAMP METAL STAIRS MTS

METAL SIGN (GENERAL) OVERHEAD COMMUNICATION (# OF LINES) OHC(2) OHE(4) OVERHEAD ELECTRIC (# OF LINES) CONCRETE WHEEL STOP PAINTED PARKING LOT ISLAND PAINTED PARKING STALL STRIPE

POLYVINYL CHLORIDE PIPE SANITARY SEWER SAS/PM SANITARY SEWER LINE BY PAINT MARK

SD SDI SDP SGP SP STORM DRAIN INLET SERVICE DROP POLE STEEL GUARD POST

PVC

STD

UC

W/PM

WCR

WLP

WMB WPP

WVB

1.0'ø

XW

STEEL PIPE STANDARD (COA) SIDEWALK CULVÉRT PAINTED SOLID WHITE STRIPE (TRAFFIC) PAINTED SOLID YELLOW STRIPE (TRAFFÍC)

SWC SWS SYS TA TOP OF ASPHALT TOP OF CURB TCAB TRAFFIC CONTROL CABINET TCB TCO TRAFFIC CONTROL BOX TOP OF CONCRETE TD

TRENCH DRAIN TOP OF GRATE ELECTRIC TRANSFORMER TRAFFIC SIGN TOP OF WALL UTILITY CORRIDOR (GAS, WATER,

COMMUNICATION AND FLECTRIC CONCRETE VALLEY GUTTER WATER LINE BY PAINT MARK CONCRETE WHEELCHAIR RAMP OUTDOOR WATER FAUCET WROUGHT IRON WATER LINE EXPOSED WOOD LIGHT POLE

WATER METER BOX WOOD POWER POLE WATER VALVE BOX PAINTED PEDESTRIAN CROSSWALK

TREE TRUNK DIAMETER

DECIDUOUS TREE

CONIFEROUS TREE LANDSCAPING SHRUB

SMALL LANDSCAPING SHRUB

ACCESSIBLE PARKING SPACE

PAINTED UTILITY MARK



DEMOLITION PLAN NORTH PARKING LOT RECONSTRUCTION HAWTHORNE ELEMENTARY SCHOOL

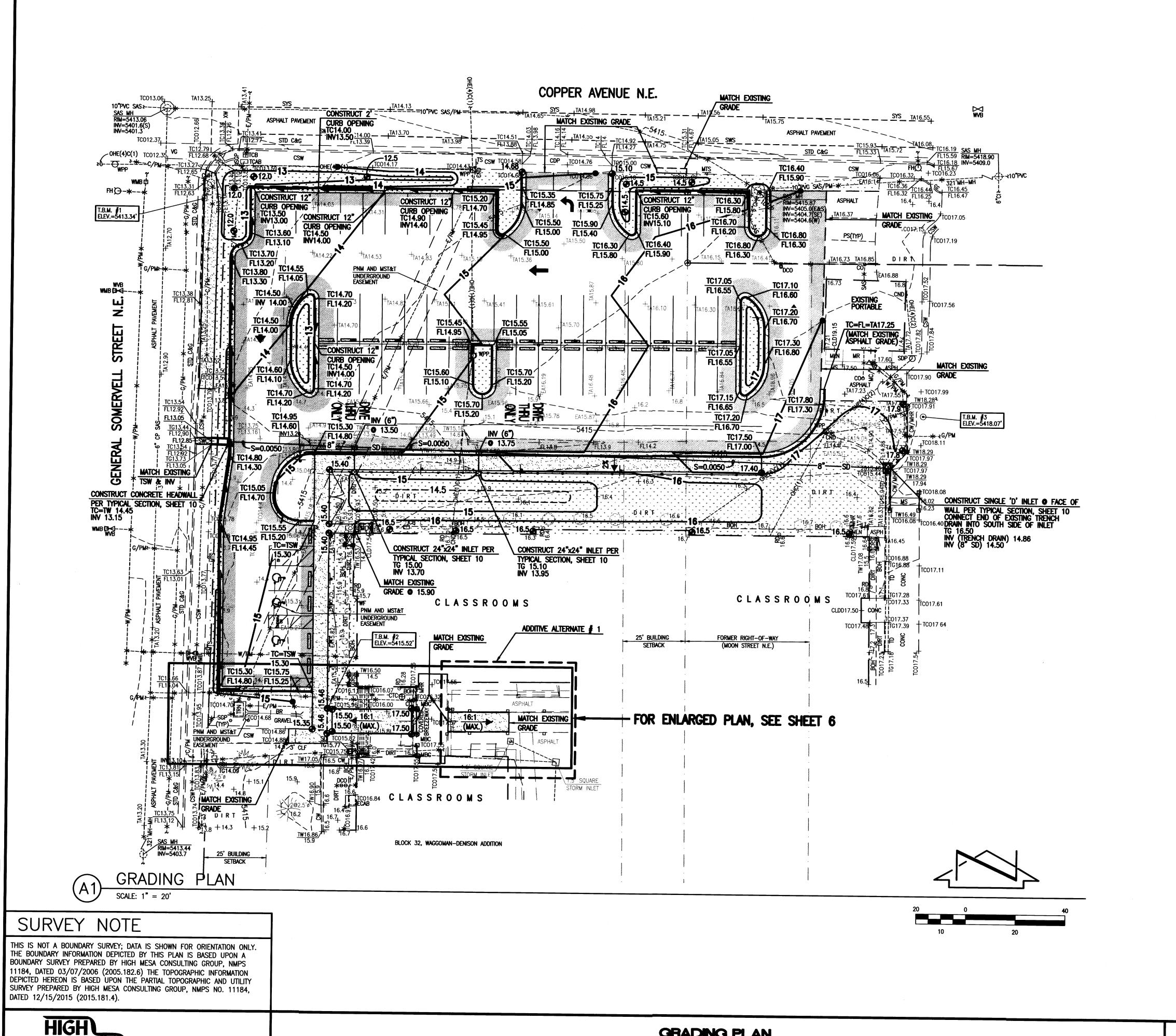
REVISIONS 2015.181.2 ____S.C.C./J.Y.R. 04-2016 APPROVED BY G.M.

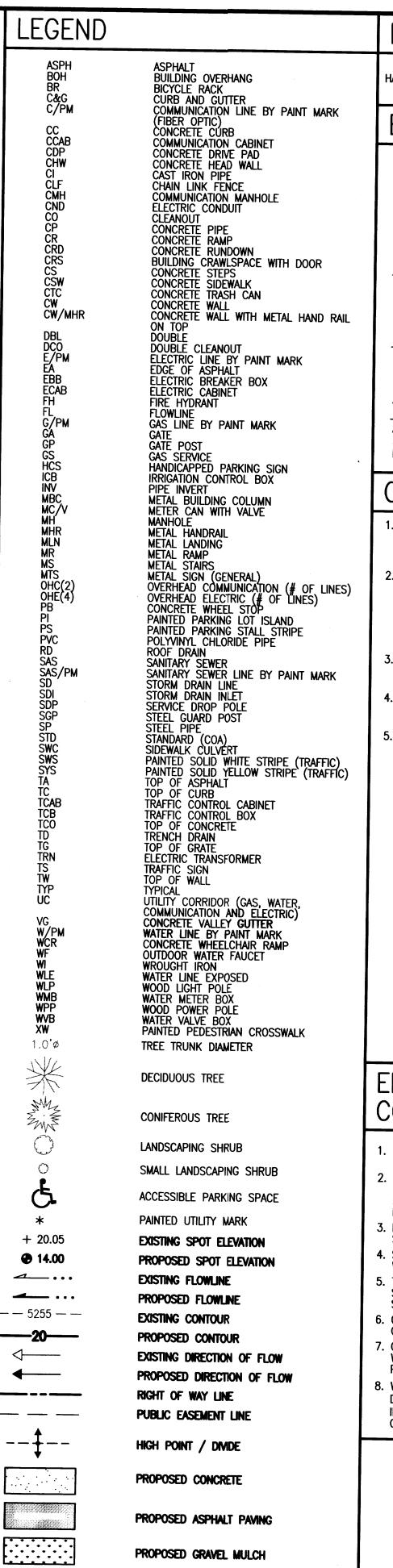
HIGH

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GRADING PLAN NORTH PARKING LOT RECONSTRUCTION HAWTHORNE ELEMENTARY SCHOOL

4-27-16 NO. DATE BY REVISIONS DESIGNED BY <u>J.D.S.</u> 2015.181.2 04-2016 APPROVED BY ___G.M.

MESA Consulting Group

6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109 PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com THIS SUBMITTAL IS MADE IN SUPPORT OF GRADING AND PAVING PERMIT TO BE ISSUED BY THE CITY OF ALBUQUERQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE EXISTING SITE IS LOCATED ON THE SOUTH SIDE OF COPPER AVENUE NE, SOUTH OF THE LOS ALTOS PARK AND GOLF COURSE. AS SHOWN BY PANEL 358 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR BERNALILLO COUNTY, DATED AUGUST 16, 2012, THE SITE DOES NOT LIE WITHIN ANY DESIGNATED FLOOD HAZARD ZONE. THE SITE IS LOCATED UPSTREAM OF A DESIGNATED FLOOD HAZARD ZONE AO (DEPTH 1) LOCATED AT THE SOUTHWEST CORNER OF THE SCHOOL SITE AT THE INTERSECTION OF DOMINGO ROAD NE AND GENERAL SOMERVELL ST NE. THE PROPOSED PROJECT LOCATION DRAINS EAST TO WEST TO GENERAL SOMERVELL ST NE, THEN DRAINS NORTH TO COPPER AVE NE, AWAY FROM THE DESIGNATED FLOOD HAZARD ZONE.

II. BACKGROUND DOCUMENTS AND RESEARCH

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- A. MASTER DRAINAGE PLAN (MDP) FOR HAWTHORNE ELEMENTARY SCHOOL PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY JEFF MORTENSEN & ASSOCIATES, INC.) (NMPE 8547) DATED 10-29-97. THE 1997 MDP ESTABLISHED THE SITE CONSISTS OF FIVE DRAINAGE BASINS, BASINS A, B, C, D AND E. THE PROJECT SITE LIES WITHIN BASINS B AND C. THE 1997 MDP ESTABLISHED THAT WHILE THE EXISTING SITE IS ALLOWED FREE DISCHARGE TO THE ADJACENT PUBLIC STREETS OF GENERAL SOMERVELL STREET AND DOMINGO ROAD NW, RUNOFF GENERATED BY FUTURE DEVELOPMENT MUST NOT EXCEED THE EXISTING 29.7 CFS PEAK DISCHARGE CALCULATED IN THE 1997 MDP. ANY ADDITIONAL RUNOFF GENERATED MUST BE MANAGED ONSITE TO MAINTAIN THE 29,7 CFS LIMIT.
- B. CONSISTING OF A CONCRETE VALLEY GUTTER AND SIDEWALK CULVERTS WERE CONSTRUCTED WITHIN BASINS B AND C TO IMPROVE POSITIVE DRAINAGE FROM THE NEW MINI GYMNASIUM TO GENERAL SOMERVELL STREET NE. THIS PROJECT MAINTAINED THE EXISTING 29.7 CFS PEAK DISCHARGE RATE LIMIT IMPOSED BY THE 1997 MDP, THEREFORE FREE DISCHARGE WAS CONTINUED FROM BASINS B AND C

IV. EXISTING CONDITIONS

THE PROJECT SITE IS LOCATED WITH PORTIONS OF BASINS B AND C OF THE 1997 APPROVED MASTER DRAINAGE PLAN AND CONSISTS OF AN EXISTING PAVED PARKING LOT, LANDSCAPING, AND PRIVATE STORM DRAINAGE IMPROVEMENTS. THE PROJECT SITE GENERALLY DRAINS FROM EAST TO WEST, WITH THE PAVED PARKING LOT PORTION SHEET FLOWING TO THE ADJACENT PUBLIC STREETS OF GENERAL SOMERVELL ST NE AND COPPER AVE NE, WHILE THE LANDSCAPED PORTION DRAINS VIA PRIVATE STORM DRAIN IMPROVEMENTS TO A SIDEWALK CULVERT ON THE EAST SIDE OF GENERAL SOMERVELL ST NE AND FREE DISCHARGES INTO THE PUBLIC STREET FROM THIS POINT RUNOFF DRAINS NORTH TO THE INTERSECTION OF GENERAL SOMERVELL ST NE AND COPPER AVE NE, AND THEN WEST WITHIN COPPER AVE NE.

THE SITE IS BOUNDED ON THE NORTH BY COPPER AVENUE NE, A FULLY DEVELOPED PUBLIC STREET; ON THE EAST BY AN EXISTING PORTABLE CLASSROOM BUILDING; ON THE SOUTH BY AN EXISTING PERMANENT CLASSROOM BUILDING, AND ON THE WEST BY GENERAL SOMERVELL STREET NE, A FULLY DEVELOPED PUBLIC STREET.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THE PROJECT SITE, AS THE SITE IS TOPOGRAPHICALLY HIGHER THAN THE ADJACENT PUBLIC STREETS, AND IS BOUNDED ON THE OTHER TWO SIDES BY EXISTING SCHOOL IMPROVEMENTS. HOWEVER, IT IS NOTED THAT RUNOFF FROM THE ONSITE EXISTING SCHOOL BUILDING AND A TRENCH DRAIN OUTLET AT THE CORNER OF THE BUILDING IS ACCEPTED ONTO AND FLOWS THROUGH THE PARKING LOT TO DISCHARGE TO THE ADJACENT PUBLIC STREETS.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF RECONSTRUCTION OF THE EXISTING PARKING LOT, INCREASING PARKING LOT CAPACITY AND PROVIDING IMPROVED PEDESTRIAN ACCESS. LANDSCAPED AREAS WITHIN THE PARKING LOT, AS WELL AS A LANDSCAPE BUFFER AROUND THE PERIMETER OF THE PARKING LOT WILL BE DEPRESSED WHERE POSSIBLE TO CAPTURE DEVELOPED RUNOFF TO THE MAXIMUM EXTENT PRACTICABLE. RUNOFF FROM THE PARKING LOT WILL DRAIN VIA CURB OPENINGS INTO THESE LANDSCAPED WATER HARVESTING AREAS. OVERFLOW RUNOFF FROM THE LANDSCAPED BUFFER WILL SHEETFLOW INTO COPPER AVENUE NE.

RUNOFF FROM THE BUILDING TO THE SOUTH WILL DRAIN TO A LANDSCAPED WATER HARVESTING AREA BETWEEN THE EXISTING BUILDING AND THE PAVED PARKING LOT. NEW PRIVATE STORM DRAIN IMPROVEMENTS WILL COLLECT THE OVERFLOW RUNOFF FROM THIS AREA IN ADDITION TO RUNOFF FROM THE EXISTING TRENCH DRAIN OUTLET REFERENCED ABOVE AND DISCHARGE IT TO THE BACK OF THE EXISTING SIDEWALK CULVERT ALONG GENERAL SOMERVELL ST NE.

THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINIMAL INCREASE IN DEVELOPED RUNOFF GENERATED BY THE SITE (50 CF, 0.2 CFS), HOWEVER THIS WILL BE OFFSET BY THE LANDSCAPED WATER HARVESTING CAPACITY (≈800 CF) PROVIDED IN THE DEVELOPED CONDITION.

AS IN THE EXISTING CONDITION, THERE ARE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

VI. FIRST FLUSH

THE PROPOSED LANDSCAPED WATER HARVESTINGAREAS WITHIN THE NEW PARKING LOT AND THE DEPRESSED LANDSCAPED BUFFER BETWEEN THE PAVED PARKING LOT AND THE PUBLIC SIDEWALKS WILL CAPTURE AND TREAT THE FIRST FLUSH RUNOFF GENERATED BY THE PROPOSED PARKING LOT TO THE MAXIMUM EXTENT PRACTICABLE. HOWEVER, THIS AREA IS LIMITED AND IS NOT LARGE ENOUGH TO CONTAIN THE ENTIRE FIRST FLUSH. BECAUSE OF THIS, A VARIANCE TO THE CITY'S FIRST FLUSH REQUIREMENTS IS REQUESTED BASED UPON THE FOLLOWING:

- THE WATER HARVESTING AREAS WITHIN THE PARKING LOT AND THE LANDSCAPED BUFFERS AT THE PERIMETER OF THE PARKING LOT ARE INSUFFICIENT IN SIZE TO CAPTURE THE ENTIRE FIRST FLUSH FROM THE PROJECT SITE
- WHILE THE WATER HARVESTING AREA BETWEEN THE EXISTING BUILDING AND PARKING LOT WILL NOT CAPTURE RUNOFF FROM THE PARKING LOT, IT WILL CAPTURE AND TREAT FIRST FLUSH FROM THE ADJACENT EXISTING CLASSROOM BUILDING, THEREBY MITIGATING THE OVERALL FIRST FLUSH FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE
- VOLUME CONTAINED IS THAT WHICH IS PRACTICABLE YET LESS THAN THE REQUIRED 0.44-INCH STORM AS CALCULATED

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 THE EXISTING AND PROPOSED IMPROVEMENTS, AND 3.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES. AS SHOWN BY THIS PLAN, THE PROPOSED GRADING PLAN WILL MAINTAIN THE CURRENT DRAINAGE PATTERN OF FREE DISCHARGE FROM EAST TO WEST TO THE ADJACENT AND DOWNSTREAM CITY STREETS, WHILE MITIGATING THE DEVELOPED RUNOFF DISCHARGED TO THE MAXIMUM EXTENT PRACTICABLE.

VIII. SEDIMENT AND EROSION CONTROL

THE PROJECT DISTURBS ONE-ACRE OF LAND. A SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE PREPARED CONCURRENT WITH THIS PLAN. A SITE SPECIFIC SEDIMENT AND EROSION CONTROL PLAN IS INCLUDED THAT PROPOSES GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES (BMPs) TO CAPTURE CONSTRUCTION RELATED SEDIMENT FROM DISCHARGING TO THE ADJACENT AND DOWNSTREAM CITY STREETS.

IX. CALCULATIONS

THE CALCULATIONS CONTAINED HEREON ANALYZE THE EXISTING AND DEVELOPED CONDITIONS FOR THE 100-YEAR, 6-HOUR RAINFALL EVENT. 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 PROJECT WILL RESULT IN A MINIMAL INCREATE IN DEVELOPED RUNOFF GENERATED BY THE SITE (50 CF, 0.2 CFS); HOWEVER, THIS INCREASE WILL BE OFFSET BY THE INCLUSION OF LANDSCAPED WATER HARVESTING AREAS SIZED TO CAPTURE 800 CF OF RUNOFF FROM THE SITE. FIRST FLUSH CONTAINMENT VOLUMES WERE EVALUATED USING THE AVERAGE END-AREA METHOD.

X. CONCLUSIONS

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

- 1. THE PROPOSED IMPROVEMENT WILL MAINTAIN AND NOT ALTER THE EXISTING DRAINAGE PATTERNS OF THE SITE
- 2. THE PROPOSED IMPROVEMENTS WILL NOT RESULT IN AN INCREASE IN THE DEVELOPED RUNOFF VOLUME DISCHARGED FROM THE SITE
- 3. THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWSTREAM DRAINAGE CONDITIONS
- 4. EROSION AND SEDIMENT CONTROL MEASURES ARE PROPOSED DURING CONSTRUCTION; BMP SELECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE CONSTRUCTION RELATED SEDIMENT DOES NOT DISCHARGE FROM THE SITE TO PUBLIC RIGHT-OF-WAY
- 5. THIS PROJECT IS SUBJECT TO AN EPA NPDES PERMIT
- 6. THIS PROJECT REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL
- 7. A VARIANCE TO THE REQUIREMENT TO CAPTURE AND TREAT THE FIRST FLUSH OF RUNOFF FROM THE NEW IMPERVIOUS (PAVED) AREA CREATED BY THIS PLAN IS REQUESTED BASED UPON THE FOLLOWING:
 - a. ALL LANDSCAPED AREAS ARE DEPRESSED TO CAPTURE AND TREAT THE FIRST FLUSH TO THE MAXIMUM EXTENT PRACTICABLE
 - b. THE WATER HARVESTING AREAS WITHIN THE PARKING LOT AND THE LANDSCAPED BUFFERS AT THE PERIMETER OF THE PARKING LOT ARE INSUFFICIENT IN SIZE TO CAPTURE THE ENTIRE FIRST FLUSH FROM THE PROJECT
 - c. WHILE THE WATER HARVESTING AREA BETWEEN THE EXISTING BUILDING AND PARKING LOT WILL NOT CAPTURE RUNOFF FROM THE PARKING LOT, IT WILL CAPTURE AND TREAT FIRST FLUSH FROM THE ADJACENT EXISTING CLASSROOM BUILDING, THEREBY MITIGATING THE OVERALL FIRST FLUSH FROM THE SITE TO THE MAXIMUM EXTENT PRACTICABLE
 - d. VOLUME CONTAINED IS THAT WHICH IS PRACTICABLE YET LESS THAN THE REQUIRED 0.44-INCH STORM AS CALCULATED

CONSTRUCTION NOTES:

3.8 CFS

4.0 CFS

A. PRECIPITATION ZONE = B. P_{100, 6 HR} = P₃₆₀ = 2.60

C. TOTAL PROJECT AREA (A+) = 40.600 SF 0.93 AC

D. LAND TREATMENTS

1. EXISTING CONDITION

2. DEVELOPED

CALCULATIONS

SITE CHARACTERISTICS

DITION		
TREATMENT	AREA (SF/AC)	%
A	0/0	0
В	0 / 0	0
C	15,400 / 0.35	38
D	25,200 / 0.58	62
CONDITION		

TREATMENT AREA (SF/AC) 0/0 0/0 10,360 / 0.24 30,240 / 0.69

II. AREA OF DISTURBANCE

AREA OF DISTURBANCE ≈ 1 AC : SEPARATE EROSION & SEDIMENT CONTROL PERMIT IS REQUIRED

III. HYDROLOGY

A. EXISTING CONDITION

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ (0.66*0.00) + (0.92*0.00) + (1.29*0.35) + (2.36*0.58)/1.00 =1.92 IN $V_{100,6 HR} = (E_W/12)A_T = (1.92/12)1.00 =$ 0.1600 AC-FT = 6,970 CF b. PEAK DISCHARGE Qp = QpAAA + QpBAB + QpCAC + QpDAD

B. DEVELOPED CONDITION

a. VOLUME $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ (0.66*0.00) + (0.92*0.00) + (1.29*0.24) + (2.36*0.69)/0.93 =2.08 IN $V_{100.6 \, HR} = (E_W/12)A_T = (2.08/12)0.93 =$ 0.1612 AC-FT = 7,020 CF b. PEAK DISCHARGE

 $Q_P = Q_{100} = (1.56 * 0.00) + (2.28 * 0.00) + (3.14 * 0.35) + (4.70 * 0.58) =$

 $Q_P = Q_{100} = (1.56*0.00) + (2.28*0.00) + (3.14*0.24) + (4.70*0.69) =$

Qp = QpAAA + QpBAB + QpCAC + QpDAD

c. FIRST FLUSH (90TH PERCENTILE STORM EVENT) $E_W = (E_A A_A + E_B A_B + E_C A_C + E_D A_D)/A_T$ $E_W = (0.00*0.00) + (0.00*0.00) + (0.00*0.24) + (0.44*0.69)/0.93 =$ 0.33 IN $V_{FIRST FLUSH} = (E_W/12)A_T = (0.33/12)0.93 =$ 0.0256 AC-FT = 1.110 CF

d. WATER HARVESTING AREA CAPACITY

V_{WH} = 800 CF < V_{FIRST FLUSH} = 1,110 CF (FF MANAGED TO MAX. EXTENT PRACTICABLE)

C. COMPARISON

a. VOLUME WITHOUT WATER HARVESTING

 $\Delta V_{100, 6 HR} = V_{DEV 100} - V_{EX 100}$ $\Delta V_{100.6HR} = 7,020 - 6,970$ 50 CF (INCREASE) b. VOLUME WITH WATER HARVESTING ΔV_{100, 6 HR} = V_{DEV 100} - V_{EX 100} - V_{WH}

 $\Delta V_{100, 6 HR} = 7,020 - 6,970 - 800 =$ c. PEAK DISCHARGE

 $\Delta Q_{100} = 4.0 - 3.8$ 0.2 CFS (INCREASE)

-750 CF

(DECREASE)

TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING

UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS. 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

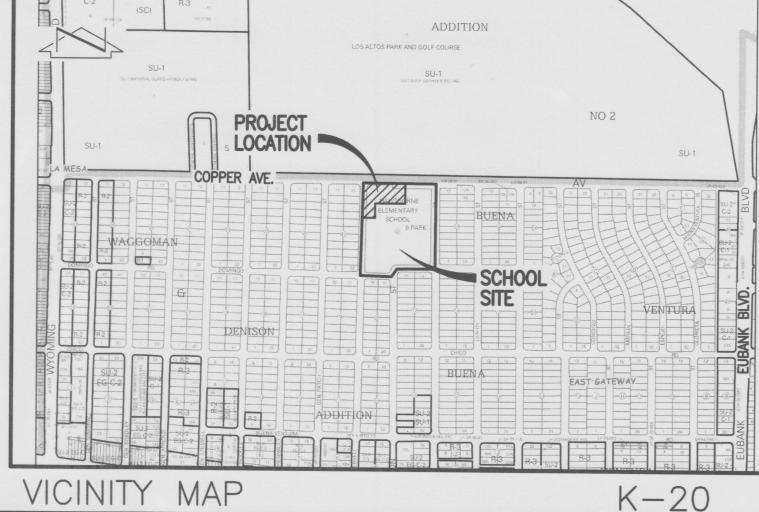
SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE 3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

4. ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

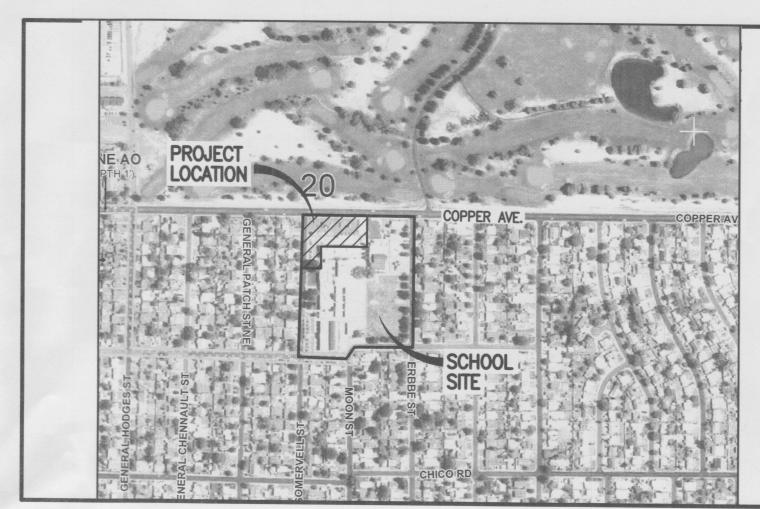
5. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, ABCWUA DISTRIBUTION MAPS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP, SITE UTILITY DIAGRAM (2015.181.5) DATED DECEMBER 01, 2015. IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET #2015481336). UTILITY LINES THAT APPEAR ON THESE DRAWINGS 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, OF UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK I 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.

EROSION AND SEDIMENT CONTROL MEASURES:

- 1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES 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 TH EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED
- 3. NO SPOILS FROM THE PROJECT SHALL BE DEPOSITED IN THE
- 4. SPOILS SHALL BE STAGED ON THE UPHILL SIDE OF TRENCHES WHEN TRENCHING IS REQUIRED.
- 5. THE CONTRACTOR SHALL CLEAN AND REMOVE ALL FUGITIVE DUST, SOIL AND DEBRIS RESULTING FROM THIS PROJECT FROM THE STREET AT THE END OF EACH DAY 6. CONTRACTOR SHALL LEAVE THE AREA IMMEDIATELY BEHIND THE
- CURB DEPRESSED TO CONTAIN NUISANCE FLOWS AND SEDIMENT CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASHING; THE WASHING OF CONCRETE TRUCKS SHALL NOT BE
- PERMITTED WITHIN THE PUBLIC RIGHT-OF-WAY. 8. WHEN APPLICABLE, CONTRACTOR SHALL SECURE "TOPSOIL STURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING



SCALE: 1" = 750



LEGAL DESCRIPTION:

HAWTHORNE ELEMENTARY SCHOOL AND PARK.

BENCHMARKS:

PROJECT BENCHMARK

AN AGRS 3 1/4" ALUMINUM DISK STAMPED "14-K20 1990" SET FLUSH WITH TOP OF CURB ON THE MEDIAN APPROXIMATELY 122 FEET NORTH OF THE INTERSECTION OF WYOMING BOULEVARD AND COPPER AVENUE N.E. ELEVATION = 5381.93 FEET (NAVD 88)

T.B.M. #1

A CHISELED "+" AT THE TOP BACK OF CURB ON GENERAL SOMERVELL STREET N.E., AS SHOWN ON SHEET 3. ELEVATION = 5413.34 FEET (NAVD 88)

T.B.M. #2

A MAG NAIL W/WASHER SET IN ASPHALT IN THE SOUTHWESTERN PORTION OF THE SURVEY, AS SHOWN ON ON SHEET 3. ELEVATION = 5415.52 FEET (NAVD 88)

T.B.M. #3

A MAG NAIL W/WASHER SET IN ASPHALT IN THE NORTHEASTERN PORTION OF THE SURVEY, AS SHOWN ON ON SHEET 3. ELEVATION = 5418.07 FEET (NAVD 88)



4-27-16

NO. DATE BY REVISIONS 2015.181.2 DESIGNED BY ____J.D.S. DRAWN BY ____S.C.C./J.Y.F 04-2016 APPROVED BY __G.M.

MESA Consulting Group 5010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109

PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

DRAINAGE PLAN AND CALCULATIONS NORTH PARKING LOT RECONSTRUCTION HAWTHORNE ELEMENTARY SCHOOL

