◦ LEGEND ◦

MATERIALS

- CONCRETE
- RIP-RAP

LINES

- SUBDIVISION BOUNDARY
- PROPERTY LINE (PLAN)
- PROPERTY LINE (SECTION)
- CENTERLINE
- EASEMENT LINE
- MATCH LINE
- SECTION CUT LINE

EARTHWORK

	EXISTING	NEW
CONTOUR LINE	25	25
SPOT ELEVATION		
PROJECT / PHASE BOUNDARY		
FLOWLINE		
DIRECTION OF FLOW		

MISCELLANEOUS UTILITIES

- GAS LINE
- UNDERGROUND TELEPHONE
- UNDERGROUND ELECTRICAL
- STORM DRAIN
- STORM DRAIN MANHOLE
- STORM DRAIN INLET

SANITARY SEWER

- SANITARY SEWER LINE
- SANITARY SEWER MANHOLE
- SAS SERVICE CONNECTIONS
- SAS CAP OR PLUG
- ENCASEMENT

WATER

- WATER LINE
- WATER SERVICE CONNECTIONS
- GATE VALVE
- FIRE HYDRANT
- BUTTERFLY VALVE
- REDUCER
- WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

- CAPS AND PLUGS
- ELBOW
- CROSS
- TEE

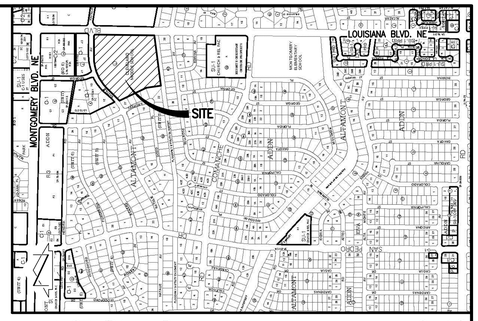
MISCELLANEOUS

- CHAINLINK FENCE
- FIELD FENCE
- COMMON YARD WALL
- RETAINING WALL
- POWER OR TELEPHONE POLE

CONSTRUCTION PLANS
for
TRACK AND FIELD IMPROVEMENTS
CLEVELAND MIDDLE SCHOOL
6910 NATALIE AVENUE N.E.
ALBUQUERQUE, NEW MEXICO
FEBRUARY, 2017

APS

INDEX OF DRAWINGS



E6 VICINITY MAP G-18
SCALE: 1"=750'

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION – 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION. (REVISED 12/06)
2. 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.
3. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, REVIEW OF AVAILABLE CITY OF ALBUQUERQUE DISTRIBUTION MAPS, APS RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (APS-SUE 2016.0505). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 16NV230451). 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 MAT 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.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
7. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
8. 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.
9. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
10. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
11. IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
12. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
13. A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
15. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND/OR INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES OR IMPROVEMENTS. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
18. ALL DIMENSIONS AND RADII OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL.
19. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED.
20. 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.
21. WHEN APPLICABLE, CONTRACTOR SHALL SECURE, ON BEHALF OF THE OWNER AND OPERATORS, "TOPSOIL DISTURBANCE PERMIT" FROM THE CITY AND/OR FILE A NOTICE OF INTENT (N.O.I.) WITH THE EPA PRIOR TO BEGINNING CONSTRUCTION.
22. ALL FILL SHALL BE CLEAN, FREE FROM VEGETATION, DEBRIS, AND OTHER DELETERIOUS MATERIALS, AND SHALL NOT BE CONTAMINATED WITH HYDROCARBONS OR OTHER CHEMICAL CONTAMINANTS.
23. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
24. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926, SUBPART P-EXCAVATIONS.

JOB NO. 2016.180.3

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

J. GRAEME MEANS NEW MEXICO 13676 REGISTERED PROFESSIONAL ENGINEER

2-6-2017

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

APPROVED FOR CONSTRUCTION

C.E.

SHEET 1 OF 9

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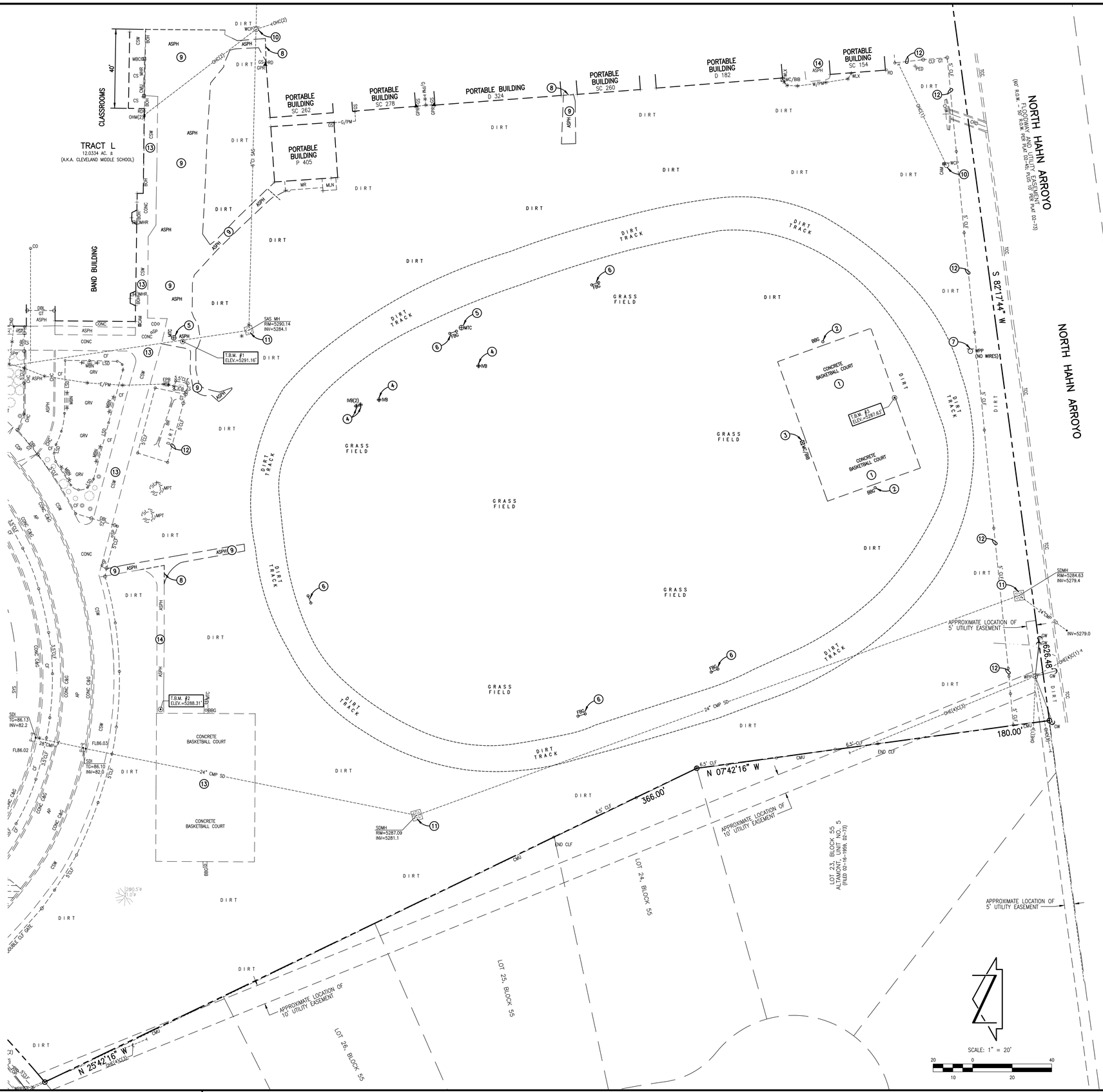

LEGEND

AP	ASPHALT PAVEMENT
ASPH	ASPHALT
BBG	BASKETBALL GOAL
BOH	BUILDING OVERHANG
BR	BICYCLE RACK
C&G	CURB AND GUTTER
CAM	SECURITY CAMERA
CDP	CONCRETE DRIVE PAD
CF	LANDSCAPING CRUSHER FINES
CHC	CONCRETE HEADER CURB
CHW	CONCRETE HEAD WALL
CI	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY WALL
CND	CONDUIT
CO	CLEANOUT
CONC	CONCRETE
CRD	CONCRETE RUNDOWN
CS	CONCRETE STEPS
CSW	CONCRETE SIDEWALK
DBL	DOUBLE
DYS	PAINTED DOUBLE YELLOW TRAFFIC STRIPE
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
EPB	ELECTRIC PULLBOX
FBG	FLICKER BALL GOAL
FL	FLOWLINE
FOP	FENCE OPENING
G/PM	GAS LINE BY PAINT MARK
GPR	GAS PRESSURE REGULATOR
GRV	LANDSCAPING GRAVEL
GS	GAS SERVICE
GT	GATE
GW	GUY WIRE ANCHOR
ICB	IRRIGATION CONTROL BOX
IVB	IRRIGATION VALVE BOX
LSD	METAL LANDSCAPING DIVIDER
MBC	METAL BUILDING COLUMN
MBN	METAL BENCH
MC/BIB	METER CAN WITH BIB VALVE
MH	MANHOLE
MHR	METAL HANDRAIL
MLN	METAL LANDING
MPT	METAL PICNIC TABLE
MR	METAL RAMP
MS	METAL STAIRS
MTC	METAL TRASH CAN
OHC(1)	OVERHEAD COMMUNICATION (# OF LINES)
OHE(1)	OVERHEAD ELECTRIC (# OF LINES)
OHM	OVERHEAD UTILITY MAST
PED	STEEL PEDESTAL
RD	BUILDING ROOF DRAIN
SAS	SANITARY SEWER
SD	STORM DRAIN
SDI	STORM DRAIN INLET
SDMH	STORM DRAIN MANHOLE
SP	STEEL POLE
SW	CONCRETE SIDEWALK
SYS	PAINTED DASHED YELLOW TRAFFIC STRIPE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCC	TOP OF CONCRETE CHANNEL
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
TS	TRAFFIC SIGN
TW	TOP OF WALL
VC	CONCRETE VALLEY GUTTER
W/PM	WATER LINE BY PAINT MARK
WCP	WOOD COMMUNICATION POLE
WCR	CONCRETE WHEELCHAIR RAMP
WLX	WATER LINE EXPOSED
WPP	WOOD POWER POLE
*	PAINTED UTILITY MARKER
1.0'ø	DIAMETER OF TREE
	DECIDUOUS TREE
	SHRUB
	YUCCA
	PROPOSED CONCRETE PAVING
	PROPOSED ASPHALT PAVING
	PROPOSED TURF GRASS (FIELD)
	STABILIZED CRUSHER FINES PATH

BENCHMARKS

PROJECT BENCHMARK

A 3" BRASS DISK STAMPED "11-G19", SET FLUSH WITH THE GROUND, NEAR THE SOUTHEAST QUADRANT OF THE INTERSECTION OF LOUISIANA BOULEVARD AND VERANDA ROAD N.E.
ELEVATION = 5309.898 FEET (NAVD 1988)

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

A MAG NAIL W/WASHER SET IN ASPHALT, NEAR THE SOUTHWEST CORNER OF THE BAND BUILDING, AS SHOWN ON THIS SHEET.
ELEVATION = 5291.16 FEET (NAVD 88)

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

A MAG NAIL W/WASHER SET IN AN ASPHALT PATH, NEAR THE NORTHEAST CORNER OF A BASKETBALL COURT, AS SHOWN ON THIS SHEET.
ELEVATION = 5288.31 FEET (NAVD 88)

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

A CHISELED "+" SET IN A CONCRETE BASKETBALL COURT, NEAR THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.
ELEVATION = 5287.63 FEET (NAVD 88)

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) 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. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, REVIEW OF AVAILABLE CITY OF ALBUQUERQUE DISTRIBUTION MAPS, APS RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (APS-SUE 2016.0505). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 16W2304551). 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..
6. 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.

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 CONSTRUCTION.

DEMOLITION KEYED NOTES:

1. REMOVE AND DISPOSE OF CONCRETE BASKETBALL COURT
2. REMOVE AND RETURN BASKETBALL GOALS TO OWNER (OWNER HAS FIRST RIGHT OF SALVAGE)
3. REMOVE AND RELOCATE METER CAN, SEE LANDSCAPE PLANS
4. REMOVE AND RELOCATE IRRIGATION VALVE BOXES, SEE LANDSCAPE PLANS
5. REMOVE AND RETURN METAL TRASH CAN TO OWNER
6. REMOVE AND RETURN FLICKER BALL GOALS TO OWNER (OWNER HAS FIRST RIGHT OF SALVAGE)
7. REMOVE AND RETURN WOOD POWER POLE TO OWNER (OWNER HAS FIRST RIGHT OF SALVAGE)
8. NEATLY SAWCUT EXISTING ASPHALT PAVEMENT
9. REMOVE AND DISPOSE OF EXISTING ASPHALT PAVEMENT
10. EXISTING POWER POLE TO REMAIN
11. EXISTING STORM DRAIN / SANITARY SEWER MANHOLE TO REMAIN
12. EXISTING CHAIN LINK FENCE TO REMAIN
13. EXISTING CONCRETE PAVEMENT TO REMAIN
14. EXISTING ASPHALT PAVEMENT TO REMAIN

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON AN BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 15075, DATED 12/21/2016 (2016.180.1). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 15075, DATED 12/21/2016 (2016.180.1).

J. GRAEME MEANS NEW MEXICO 15075 REGISTERED PROFESSIONAL SURVEYOR

2-6-2017

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DEMOLITION PLAN
TRACK AND FIELD IMPROVEMENTS
CLEVELAND MIDDLE SCHOOL
6910 NATALIE AVENUE N.E.

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./S.C.C.
APPROVED BY G.M.

NO.	DATE	BY	REVISIONS

JOB NO. 2016.180.3
DATE 02-2017
SHEET 2 OF 9

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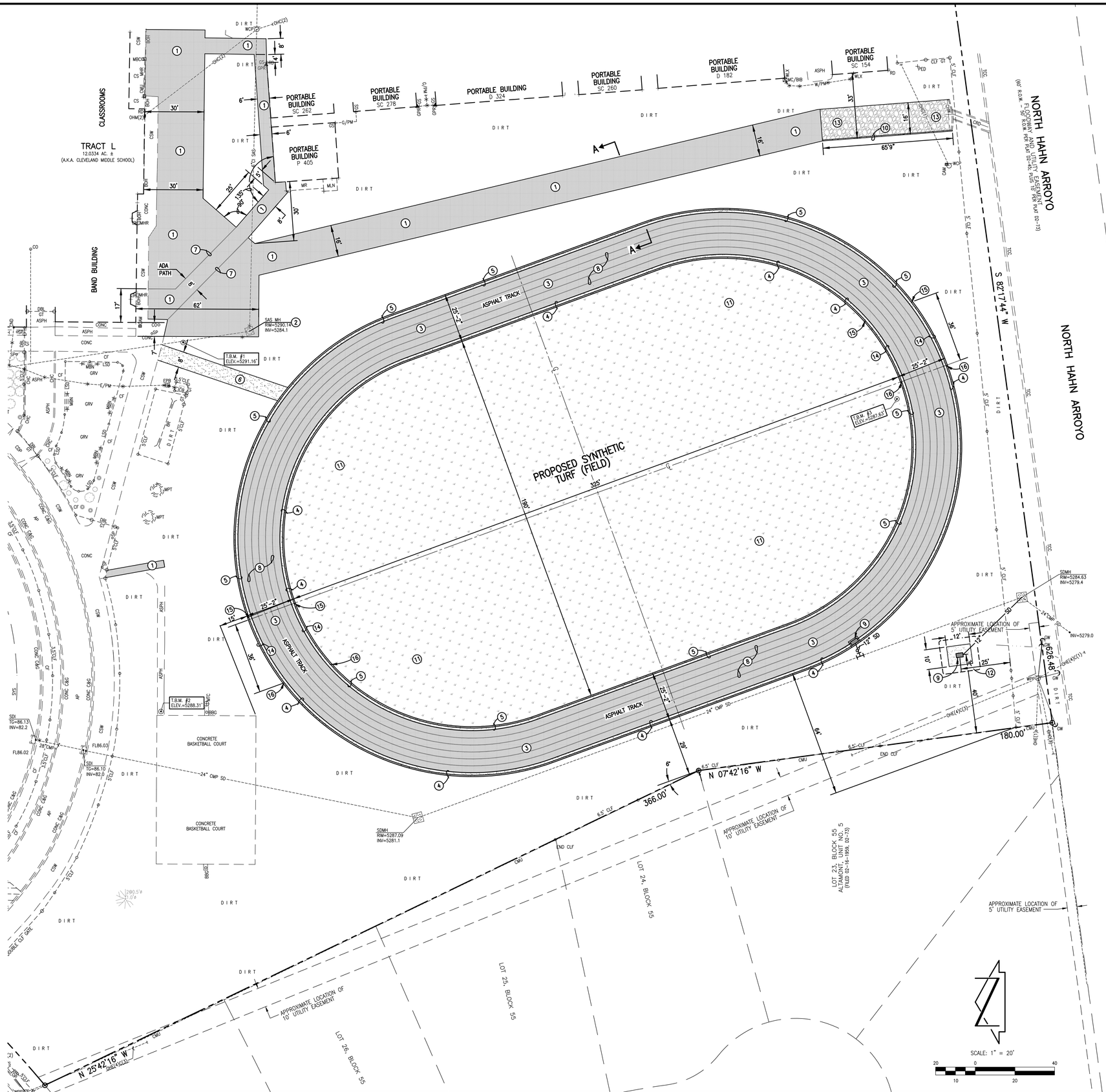

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	PROPOSED ASPHALT PAVING
	PROPOSED SYNTHETIC TURF (FIELD)
	PROPOSED BASE COURSE

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A MAG NAIL W/WASHER SET IN ASPHALT, NEAR THE SOUTHWEST CORNER OF THE BAND BUILDING, AS SHOWN ON THIS SHEET.
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SITE KEYED NOTES:

1. CONSTRUCT 2" ASPHALT PAVEMENT PER TYPICAL SECTION, SHEET 4
2. ADJUST EXISTING SANITARY SEWER MANHOLE TO GRADE AND INSTALL CONCRETE COLLAR PER TYPICAL DETAIL, SHEET 4
3. CONSTRUCT ASPHALT TRACK PER TYPICAL SECTION, SHEET 4
4. CONSTRUCT MOUNTABLE ROLL CURB PER TYPICAL SECTION, SHEET 4
5. CONSTRUCT MOUNTABLE ROLL CURB (DEPRESSED) PER TYPICAL SECTION, SHEET 4
6. CONSTRUCT CONCRETE SIDEWALK PER TYPICAL SECTION, SHEET 4
7. INSTALL 4" PAINTED "ACCESSIBLE PATH" LINES WITH WHITE PAINT (TRAFFIC RATED OR APPROVED SUBSTITUTE)
8. INSTALL 2" PAINTED LANE LINES WITH WHITE PAINT (TRAFFIC RATED OR APPROVED SUBSTITUTE), MINIMUM 2 COATS
9. NEW 24"x48" STORM INLET, SEE GRADING PLAN, SHEET 5
10. CONSTRUCT CONCRETE HEADER CURB PER TYPICAL SECTION, SHEET 4
11. NEW SYNTHETIC TURF FIELD, SEE LANDSCAPE PLANS
12. CONSTRUCT CONCRETE APRON PER SECTION, SHEET 4
13. INSTALL 12" AGGREGATE BASE COURSE PER TYPICAL SECTION, SHEET 4
14. TRANSITION FROM MOUNTABLE (STANDARD) CURB TO MOUNTABLE (DEPRESSED) CURB
15. BEGIN CURB TRANSITION
16. END CURB TRANSITION

SURVEY NOTE:

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J. GRAEME MEANS NEW MEXICO 13678 REGISTERED PROFESSIONAL SURVEYOR

2-6-2017

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SITE PLAN
TRACK AND FIELD IMPROVEMENTS
CLEVELAND MIDDLE SCHOOL
6910 NATALIE AVENUE N.E.

DESIGNED BY	J.D.S.
DRAWN BY	J.Y.R./S.C.C.
APPROVED BY	G.M.

NO.	DATE	BY	REVISIONS

JOB NO.	2016.180.3
DATE	02-2017
SHEET	3 OF 9

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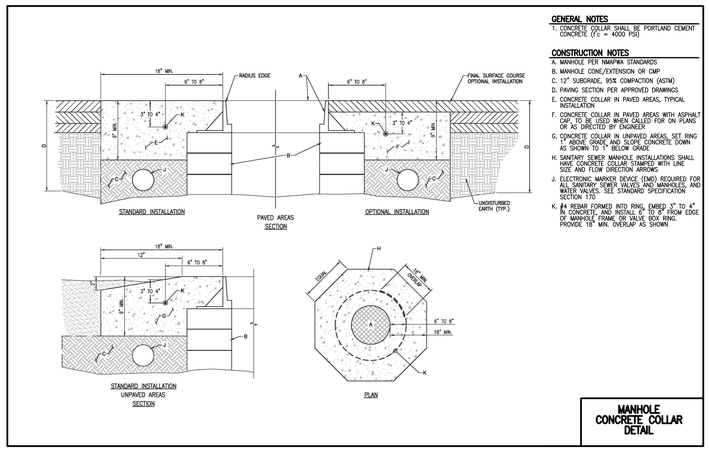
File Name: 161803_SH3.DWG | Plot Time: 09:45 am



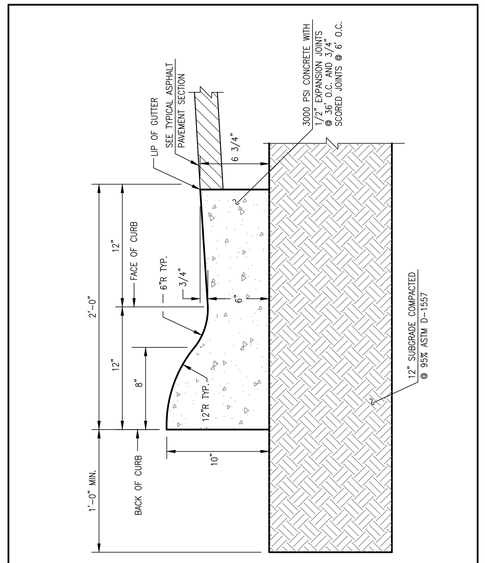
GENERAL NOTES

1. CONCRETE COLLAR SHALL BE PORTLAND CEMENT CONCRETE (f'c = 4000 PSI)

CONSTRUCTION NOTES

A. MANHOLE PER NMAPWA STANDARDS
B. MANHOLE CONE/EXTENSION OR CMP
C. 12" SUBGRADE, 95% COMPACTION (ASTM)
D. PAVING SECTION PER APPROVED DRAWINGS
E. CONCRETE COLLAR IN PAVED AREAS, TYPICAL INSTALLATION
F. CONCRETE COLLAR IN PAVED AREAS WITH ASPHALT CAP, TO BE USED WHEN CALLED FOR ON PLANS OR AS DIRECTED BY ENGINEER
G. CONCRETE COLLAR IN UNPAVED AREAS, SET RING 1" ABOVE GRADE, AND SLOPE CONCRETE DOWN AS SHOWN TO 1" BELOW GRADE
H. SANITARY SEWER MANHOLE INSTALLATIONS SHALL HAVE CONCRETE COLLAR STAMPED WITH LINE SIZE AND FLOW DIRECTION ARROWS
J. ELECTRONIC MARKER DEVICE (EMD) REQUIRED FOR ALL SANITARY SEWER VALVES AND MANHOLES, AND WATER VALVES. SEE STANDARD SPECIFICATION SECTION 170
K. #4 REBAR FORMED INTO RING, EMBED 3" TO 4" IN CONCRETE, AND INSTALL 6" TO 8" FROM EDGE OF MANHOLE FRAME OR VALVE BOX RING. PROVIDE 15" MIN. OVERLAP AS SHOWN

MANHOLE CONCRETE COLLAR DETAIL



ALBUQUERQUE PUBLIC SCHOOLS Expect great things!	TYPICAL MOUNTABLE CURB AND GUTTER SECTION	
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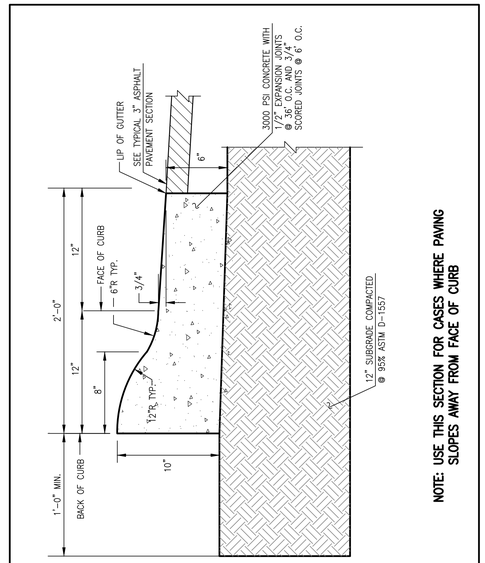
	REVIEWED BY: APS	
	DATE ISSUED: 01/30/14	
	SCALE: 1" = 0'-6"	



NOTE: USE THIS SECTION FOR CASES WHERE PAVING SLOPES AWAY FROM FACE OF CURB

ALBUQUERQUE PUBLIC SCHOOLS Expect great things!	TYPICAL MOUNTABLE DEPRESSED CURB AND GUTTER SECTION	
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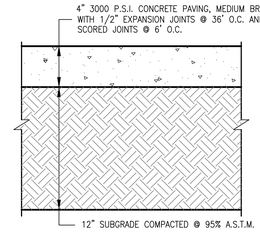
	REVIEWED BY: APS	
	DATE ISSUED: 01/30/14	
	SCALE: 1" = 0'-6"	



ALBUQUERQUE PUBLIC SCHOOLS Expect great things!	TYPICAL CONCRETE SIDEWALK SECTION	
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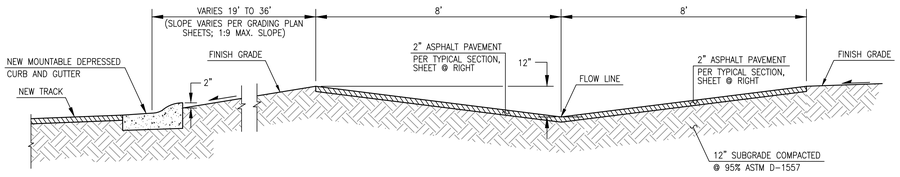
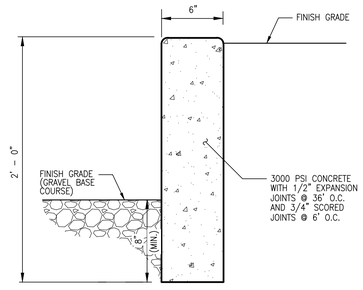
	REVIEWED BY: APS	
	DATE ISSUED: 01/30/14	
	SCALE: 1" = 0'-6"	



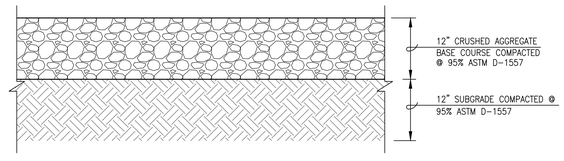
C2 SECTION A–A

SCALE: 1" = 2'-0"



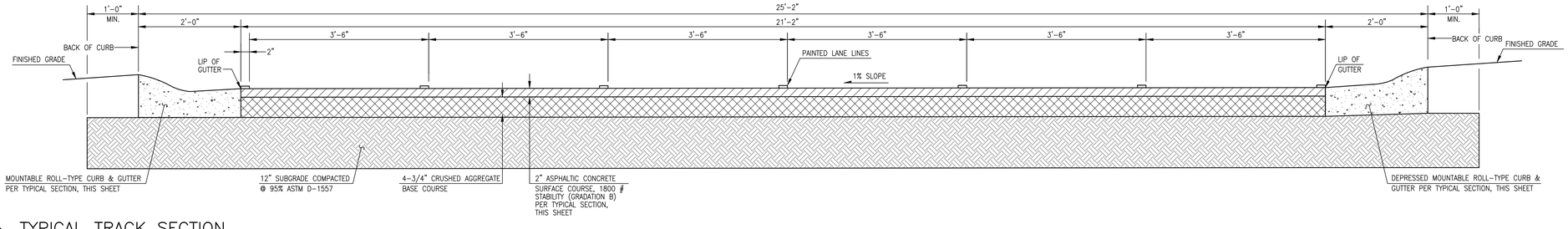
B1 HEADER CURB

SCALE: 1" = 0'-6"



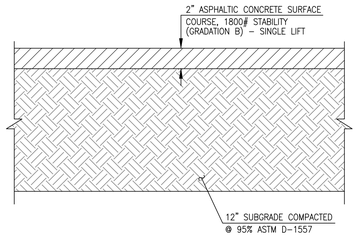
B3 GRAVEL BASE COURSE SECTION

SCALE: 1" = 1'-0"



A1 TYPICAL TRACK SECTION

SCALE: 1" = 1'



ALBUQUERQUE PUBLIC SCHOOLS Expect great things!	TYPICAL 2" ASPHALT PAVING SECTION (PEDESTRIAN TRAFFIC AREAS)	
	DRAWN BY: HMCG	STD DWG: P-301
	REVIEWED BY: APS	
	DATE ISSUED: 01/30/14	
	SCALE: 1" = 0'-6"	

J. GRAEME MEANS NEW MEXICO 13678 REGISTERED PROFESSIONAL ENGINEER

2-6-2017

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PAVING SECTIONS AND DETAILS

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DESIGNED BY	J.D.S.
DRAWN BY	J.Y.R./S.C.C.
APPROVED BY	G.M.

NO.	DATE	BY	REVISIONS

JOB NO.	2016.180.3
DATE	02-2017
SHEET	4 OF 9

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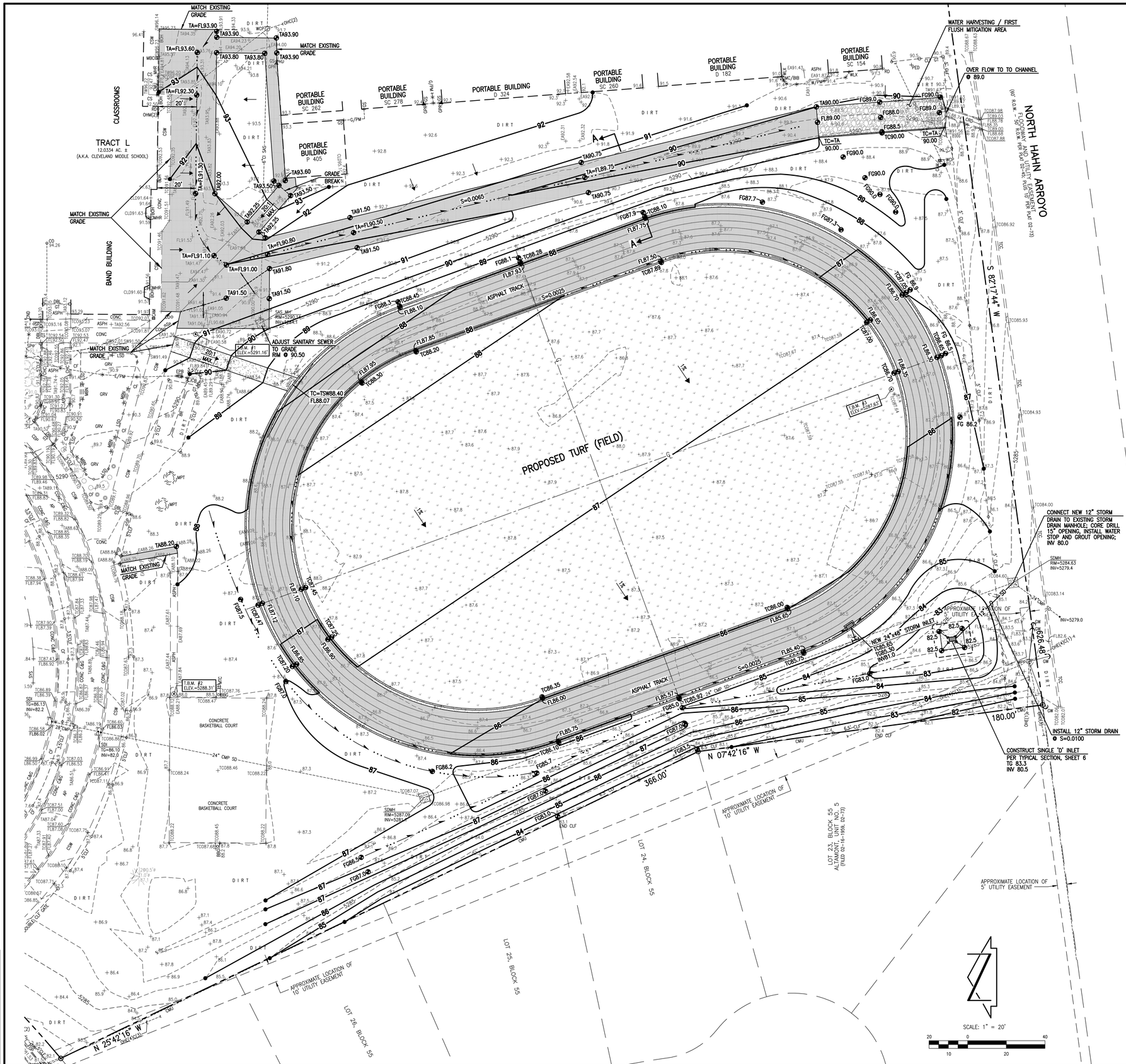

LEGEND

AP	ASPHALT PAVEMENT
ASPH	ASPHALT
BBG	BASKETBALL GOAL
BOH	BUILDING OVERHANG
BR	BICYCLE RACK
C&G	CURB AND GUTTER
CAM	SECURITY CAMERA
CDP	CONCRETE DRIVE PAD
CF	LANDSCAPING CRUSHER FINES
CHC	CONCRETE HEADER CURB
CHW	CONCRETE HEAD WALL
CI	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY WALL
CND	CONDUIT
CO	CLEANOUT
CONC	CONCRETE
CRD	CONCRETE RUNDOWN
CS	CONCRETE STEPS
CSW	CONCRETE SIDEWALK
DBL	DOUBLE
DYS	PAINTED DOUBLE YELLOW TRAFFIC STRIPE
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
EPB	ELECTRIC PULLBOX
FBG	FLICKER BALL GOAL
FL	FLOWLINE
FOP	FENCE OPENING
G/PM	GAS LINE BY PAINT MARK
GPR	GAS PRESSURE REGULATOR
GRV	LANDSCAPING GRAVEL
GS	GAS SERVICE
GT	GATE
GW	GUY WIRE ANCHOR
ICB	IRRIGATION CONTROL BOX
IVB	IRRIGATION VALVE BOX
LSD	METAL LANDSCAPING DIVIDER
MBC	METAL BUILDING COLUMN
MBN	METAL BENCH
MC/BIB	METER CAN WITH BIB VALVE
MH	MANHOLE
MHR	METAL HANDRAIL
MLN	METAL LANDING
MPT	METAL PICNIC TABLE
MR	METAL RAMP
MS	METAL STAIRS
MTC	METAL TRASH CAN
OHC(1)	OVERHEAD COMMUNICATION (# OF LINES)
OHE(1)	OVERHEAD ELECTRIC (# OF LINES)
OHM	OVERHEAD UTILITY MAST
PED	STEEL PEDESTAL
RD	BUILDING ROOF DRAIN
SAS	SANITARY SEWER
SD	STORM DRAIN
SDI	STORM DRAIN INLET
SDMH	STORM DRAIN MANHOLE
SP	STEEL POLE
SW	CONCRETE SIDEWALK
SYS	PAINTED DASHED YELLOW TRAFFIC STRIPE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCC	TOP OF CONCRETE CHANNEL
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
TS	TRAFFIC SIGN
TW	TOP OF WALL
VG	CONCRETE VALLEY GUTTER
W/PM	WATER LINE BY PAINT MARK
WCP	WOOD COMMUNICATION POLE
WCR	CONCRETE WHEELCHAIR RAMP
WLX	WATER LINE EXPOSED
WPP	WOOD POWER POLE
*	PAINTED UTILITY MARKER
1.0'ø	DIAMETER OF TREE
	DECIDUOUS TREE
	SHRUB
	YUCCA
	EXISTING DOUBLE CLEANOUT
	PROPOSED DOUBLE CLEANOUT
83.7	EXISTING SPOT ELEVATION
87.00	PROPOSED SPOT ELEVATION
	EXISTING FLOWLINE
	PROPOSED FLOWLINE
5285	EXISTING CONTOUR
85	PROPOSED CONTOUR
	EXISTING DIRECTION OF FLOW
	PROPOSED DIRECTION OF FLOW
	RIGHT OF WAY LINE
	PUBLIC EASEMENT LINE
	HIGH POINT / DIVIDE
	PROPOSED CONCRETE PAVING
	PROPOSED ASPHALT PAVING
	PROPOSED TURF GRASS (FIELD)
	PROPOSED BASE COURSE

BENCHMARKS

PROJECT BENCHMARK

A 3" BRASS DISK STAMPED "11-G19" SET FLUSH WITH THE GROUND, NEAR THE SOUTHEAST QUADRANT OF THE INTERSECTION OF LOUISIANA BOULEVARD AND VERANDA ROAD N.E.
ELEVATION = 5309.898 FEET (NAVD 1988)

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

A MAG NAIL W/WASHER SET IN ASPHALT, NEAR THE SOUTHWEST CORNER OF THE BAND BUILDING, AS SHOWN ON THIS SHEET.
ELEVATION = 5291.16 FEET (NAVD 88)

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

A MAG NAIL W/WASHER SET IN AN ASPHALT PATH, NEAR THE NORTHEAST CORNER OF A BASKETBALL COURT, AS SHOWN ON THIS SHEET.
ELEVATION = 5288.31 FEET (NAVD 88)

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

A CHISELED "+" SET IN A CONCRETE BASKETBALL COURT, NEAR THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.
ELEVATION = 5287.63 FEET (NAVD 88)

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GRADING PLAN
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DESIGNED BY	J.D.S.
DRAWN BY	J.Y.R./S.C.C.
APPROVED BY	G.M.

NO.	DATE	BY	REVISIONS

JOB NO. 2016.180.3
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SHEET 5 OF 9

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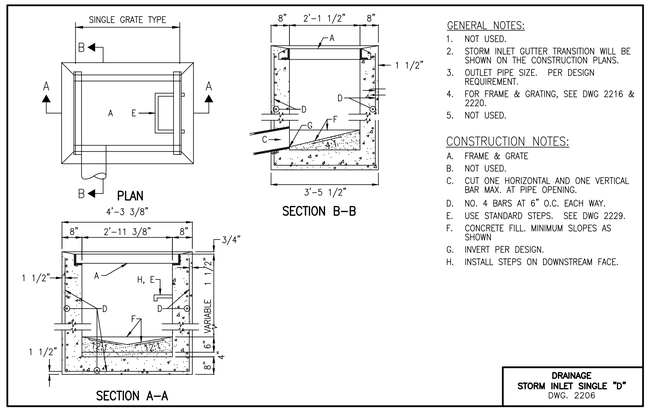


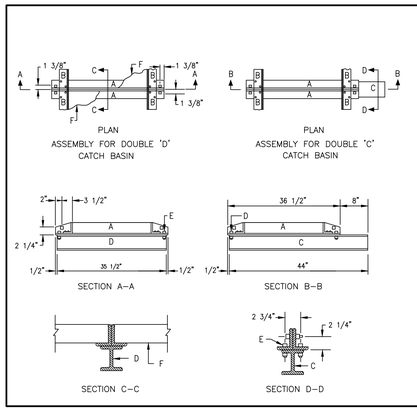
GENERAL NOTES:

1. NOT USED.
2. STORM INLET GUTTER TRANSITION WILL BE SHOWN ON THE CONSTRUCTION PLANS.
3. OUTLET PIPE SIZE. PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE DWG 2216 & 2220.
5. NOT USED.

CONSTRUCTION NOTES:

A. FRAME & GRATE
B. NOT USED.
C. CUT ONE HORIZONTAL AND ONE VERTICAL BAR MAX. AT PIPE OPENING.
D. NO. 4 BARS AT 6" O.C. EACH WAY.
E. USE STANDARD STEPS. SEE DWG 2229.
F. CONCRETE FILL. MINIMUM SLOPES AS SHOWN
G. INVERT PER DESIGN.
H. INSTALL STEPS ON DOWNSTREAM FACE.

DRAINAGE
STORM INLET SINGLE "D"
DWG. 2206



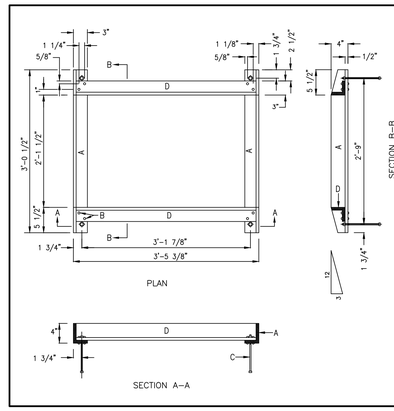
GENERAL NOTES:

1. ALL BOLTS USED IN CENTER SUPPORT ASSEMBLY SHALL BE 1/2".
2. FRAME MAY BE RIVETED OR WELDED.
3. BOLTS (NOT RIVETS OR WELDS) SHALL BE USED TO JOIN TWO OR MORE FRAMES TOGETHER AND TO THE WF BEAM.
4. AFTER CLEANING SURFACE OF SCALE, RUST, ETC., GRATING, FRAME AND CENTER SUPPORT SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMNUM PAINT (AASHTO M 69).
5. FOR SINGLE TYPE CATCH BASIN, MOVE ONE END WALL TO FROM NEW SINGLE GRATE CATCH BASIN.

CONSTRUCTION NOTES:

A. 4" X 3" X 1/2" X 36 1/2" ∠.
B. 3 1/2" X 3" X 3/8" X 40 3/8" ∠.
C. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE 'C'.
D. 5 X 5 WF 18.5 FLANGE BEAM, FOR CATCH BASIN TYPE DOUBLE 'D'.
E. 1/2" BOLTS, WITH NUTS TO SECURE ANGLE TO BEAM.
F. FOR FRAME AND GRATE SEE DWGS. 2216 & 2220.

DRAINAGE
STORM INLET CENTER SUPPORT ASSEMBLY
DWG. 2215



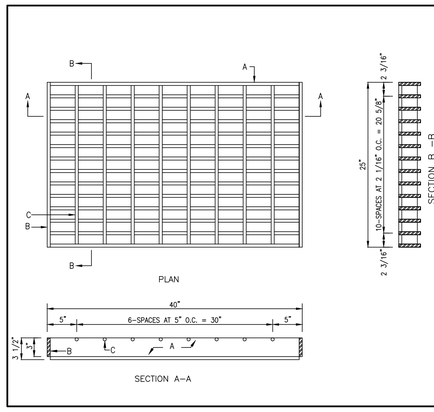
GENERAL NOTES:

1. ALL EXPOSED METAL PARTS SHALL BE PAINTED PRIOR TO ASSEMBLY. WELDING, MACHINING AND DRILLING SHALL BE DONE PRIOR TO PAINTING. ALL DIMENSIONS ARE FINISHED DIMENSIONS.
2. ALL PARTS SHALL BE OF STRUCTURAL STEEL, GRADE 36.
3. AFTER CLEANING SURFACE OF SCALE, RUST, ETC., GRATING AND FRAME SHALL BE PAINTED WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. FRAME MAY BE WELDED OR RIVETED.

CONSTRUCTION NOTES:

A. 4" X 3" X 1/2" X 3'- 1/2" ∠.
B. 2 – 3/8" RIVETS AT EACH CORNER, SEE GENERAL NOTE NO. 5.
C. 4 – 1/2" X 8" BOLTS WITH SQUARE HEAD & NUT AT EACH CORNER FOR ANCHORING FRAME INTO CONCRETE WALL.
D. 3 – 1/2" X 3" X 3/8" X 3'- 4 – 3/8" ∠.

DRAINAGE
STORM INLET FRAME
DWG. 2216



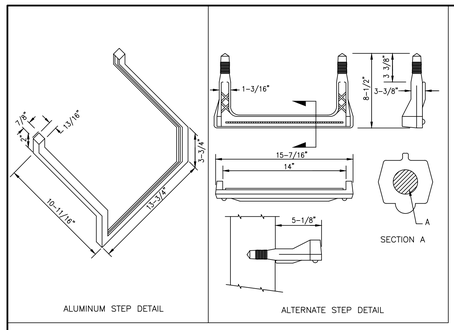
GENERAL NOTES:

1. ALL BARS SHALL BE STRUCTURAL GRADE STEEL, GRADE A36.
2. THE GRATE SHALL BE WELDED WITH 1/8" FILLET WELD AROUND BOTH SIDES OF CROSS BARS. 1/4" FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS OF ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE. OTHER SIDE SHALL HAVE 1/2" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP 1/2" SPACE OR LESS.

CONSTRUCTION NOTES:

A. BEARING BARS. (13) 1/2" X 3 1/2" X 39".
B. END BARS (2) 1/2" X 3" X 25".
C. CROSS BARS, (7) 1/2" DIA. X 24.

DRAINAGE
STORM INLET
DWG. 2220



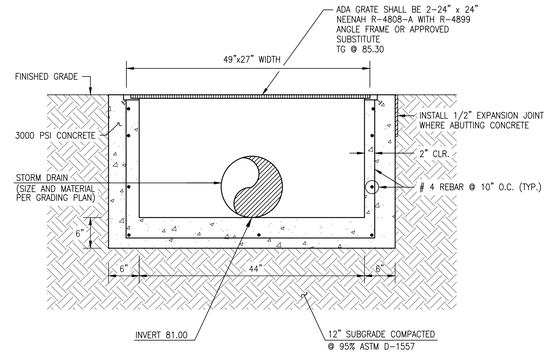
GENERAL NOTES:

1. ALUMINUM STEP, ALCOA NO 12653A OR APPROVED EQUAL.
2. ALTERNATE STEP SHALL BE POLYPROPOLENE – MOLDED OVER 1/2" STEEL REINFORCEMENT MODEL NO. PS-2-PFS, M.A. INDUSTRIES IN., OR APPROVED EQUAL.
3. STORM INLETS: INLETS GREATER THAN 4' DEEP SHALL HAVE STEPS INSTALLED IN DOWNSTREAM FACE OR INLET WALLS. STEPS SHALL PROTRUDE 7" FROM THE WALL AND BE CENTERED 12" FROM FACE OF CURB. STEPS SHALL BE 12" APART, WITH THE TOP STEP +/– 18" FROM TOP OF GRATE AND THE BOTTOM STEP NO MORE THAN 16" ABOVE THE CONCRETE FILL IN THE BOTTOM OF THE INLET.
4. NOT USED.

CONSTRUCTION NOTES:

A. 1/2" GRATE 60 STEEL REINFORCEMENT.

DRAINAGE
STEP DETAILS
DWG. 2229



24"x48" STORM INLET SECTION

SCALE: 1" = 1'-0"

2-6-2017

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

DRAINAGE SECTIONS AND DETAILS

TRACK AND FIELD IMPROVEMENTS
CLEVELAND MIDDLE SCHOOL
6910 NATALIE AVENUE N.E.

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./S.C.C.
APPROVED BY G.M.

NO.	DATE	BY	REVISIONS

JOB NO. 2016.180.3
DATE 02-2017
SHEET 6 OF 9

File Path: P:\DWG\2016\PROJECTS\161803\ Plot Date: 02-03-2017
File Name: 161803_SH6.DWG Plot Time: 10:37 am

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED IN THE NORTHEAST HEIGHTS, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE PROPOSED DEVELOPMENT IS COMPRISED OF REPLACING AN EXISTING DIRT TRACK AND GRASS FIELD WITH A NEW ASPHALT PAVED TRACK AND SYNTHETIC TURF FIELD, ALONG WITH ASSOCIATED GRADED AND PAVED DRAINAGE IMPROVEMENTS TO IMPROVE ONSITE DRAINAGE. THE DRAINAGE CONCEPT FOR THIS PROJECT WILL BE THE CONTINUED FREE DISCHARGE OF DEVELOPED RUNOFF TO THE ADJACENT NORTH HAHN ARROYO.

THIS SUBMITTAL IS MADE IN SUPPORT OF GRADING AND PAVING PERMIT TO BE ISSUED BY THE CITY OF ALBUQUERUQUE.

II. PROJECT DESCRIPTION

AS SHOWN BY PANEL 139 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. THIS SITE IS SITUATED IMMEDIATELY UPSTREAM AND ADJACENT TO THE AMAFCA OWNED AND OPERATED NORTH HAHN ARROYO; THE ARROYO IS A DESIGNATED ZONE 'A' FLOOD ZONE WHERE THE 100 YEAR FLOOD IS CONTAINED WITHIN THE CONSTRUCTED CHANNEL.

III. BACKGROUND DOCUMENTS AND RESEARCH

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- GRADING AND DRAINAGE PLAN PREPARED BY C.L. WEISS ENGINEERING, INC DATED 5/26/1994. THIS 1994 ESTABLISHED THE PRECEDENT FOR FREE DISCHARGE FROM THE DEVELOPED SITE TO THE NORTH HAHN ARROYO VIA BOTH SURFACE DISCHARGE RELEASE AT THE SOUTHWEST CORNER OF THE PORTABLE PARK, AND A PRIVATE 24" STORM DRAIN THAT DISCHARGES DIRECTLY INTO THE ARROYO.
- TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 15075, DATED 12/21/2016. THE SURVEY PROVIDES THE EXISTING CONDITIONS FOR THIS PROJECT.

IV. EXISTING CONDITIONS

THE EXISTING PROJECT SITE CONSISTS OF A GRASS FIELD WITH DIRT TRACK AT THE SOUTHWEST CORNER OF THE SCHOOL SITE. THIS AREA GENERALLY DRAINS FROM NORTHEAST TO SOUTHWEST, WITH AN EXISTING DIRT BERM AT THE WEST EDGE OF THE SIDE REDIRECTING RUNOFF SOUTH TO THE SOUTHWEST CORNER OF THE SITE WHERE IT DISCHARGES FROM THE SITE VIA SHEET FLOW INTO THE NORTH HAHN ARROYO. HOWEVER, SEVERAL PORTIONS OF THE DIRT BERM HAVE ERODED AND BREACHED, ALLOWING RUNOFF TO FLOW AGAINST AND IMPACTING EXISTING RESIDENTIAL WALLS BETWEEN THE SCHOOL AND NEIGHBORING PROPERTIES TO THE WEST, A HISTORICAL PROBLEM.

IN ADDITION, RUNOFF FROM THE PORTABLE PARK TO THE EAST AND PORTIONS OF THE ROOF RUNOFF TO THE NORTHEAST CURRENTLY SHEETFLOW ONTO THE FIELD. PER THE 1994 PLAN, A GRADED FLOWLINE BETWEEN THE PORTABLE PARK AND THE FIELD WAS INTENDED TO DIVERT AND DIRECT RUNOFF FROM THE PORTABLE PARK SOUTH TO A CONCRETE HEADWALL AND CONCRETE RUNDOWN AT THE SOUTHEAST CORNER OF THE TRACK AND FIELD. THE EXISTING CONCRETE RUNDOWN DISCHARGES RUNOFF INTO THE NORTH HAHN ARROYO. HOWEVER, THIS FLOWLINE HAS ERODED OVER TIME AND NO LONGER SERVES AS ORIGINALLY INTENDED.

A PRIVATE 24" STORM DRAIN EXTENDS THROUGH THE PROJECT SITE FROM THE SCHOOL PARKING LOT NORTH OF THE FIELD TO THE HAHN ARROYO TO THE SOUTH. PER THE 1994 GRADING PLAN REFERENCED ABOVE, THIS STORM DRAIN WAS INTENDED NOT ONLY TO CONVEY RUNOFF FROM THE SCHOOL BUILDINGS AND PARKING LOT RUNOFF TO THE NORTH, BUT ALSO THE TRACK AND FIELD RUNOFF VIA A PROPOSED STORM DRAIN INLET AT THE LOW POINT OF THE FIELD. HOWEVER, THIS STORM INLET WAS NEVER CONSTRUCTED.

THERE ARE NO APPARENT OFFSITE FLOWS THAT IMPACT THE PROJECT SITE, AS THE SITE IS TOPOGRAPHICALLY HIGHER THAN THE NEIGHBORING PROPERTY TO THE WEST AND THE PUBLIC STREET (NATALIE ROAD) TO THE NORTH. RUNOFF IN LOUISIANA BLVD TO THE EAST IS FULLY CONTAINED WITHIN THE PUBLIC STREET, AND THE 100 YEAR FLOOD ZONE ASSOCIATED WITH THE NORTH HAHN ARROYO IS CONTAINED THEREIN.

V. DEVELOPED CONDITIONS

THE PROPOSED CONSTRUCTION CONSISTS OF CONSTRUCTION OF A NEW SYNTHETIC TURF FIELD AND ASPHALT PAVED TRACK, WITH ASSOCIATED PRIVATE STORM DRAIN IMPROVEMENTS TO DISCHARGE RUNOFF FROM THE TRACK AND FIELD INTO THE EXISTING 24" PRIVATE STORM DRAIN. A NEW GRADED BERM ALONG THE WEST EDGE OF THE SITE WILL PROTECT THE EXISTING NEIGHBORING RESIDENTIAL WALLS, DIVERTING ALL REMAINING STORMWATER RUNOFF FROM THIS PORTION OF THE SCHOOL SITE AND DRAINING IT TO A NEW WATER HARVESTING AREA AT THE FAR SOUTHWEST CORNER OF THE SITE. THIS WATER HARVESTING AREA WILL ACT AS A PERMANENT SEDIMENT DETENTION BASIN TO HELP CAPTURE AND MITIGATE FIRST FLUSH RUNOFF TO THE MAXIMUM EXTENT PRACTICABLE, WITH STORMWATER OVERFLOWING INTO A NEW, RAISED STORM INLET THAT WILL CONNECT VIA NEW 12" STORM DRAIN TO THE EXISTING 24" PRIVATE STORM DRAIN, AND ULTIMATELY DISCHARGE DIRECTLY INTO THE NORTH HAHN ARROYO. THE DESIGN INTENT OF THESE IMPROVEMENTS IS TO NO LONGER SHEETFLOW RUNOFF FROM THIS CORNER OF THE SITE INTO THE ARROYO, MINIMIZING POTENTIAL SEDIMENT DISCHARGE FROM THE SITE.

IN ADDITION TO THE TRACK AND FIELD IMPROVEMENTS, AN ASPHALT PAVED FLOWLINE WILL BE CONSTRUCTED BETWEEN THE TRACK AND FIELD AND THE PORTABLE PARK AND CLASSROOM BUILDINGS TO THE EAST AND NORTHEAST. THIS FLOWLINE WILL DIVERT FLOWS FROM THESE AREAS AWAY FROM THE TRACK AND FIELD, DIRECTING THEM FROM NORTH TO SOUTH TO THE EXISTING CONCRETE HEADWALL AT THE SOUTHEAST CORNER OF THE TRACK AND FIELD. A GRAVEL LINED WATER HARVESTING AREA WILL BE CONSTRUCTED IMMEDIATELY UPSTREAM OF THE EXISTING CONCRETE HEADWALL TO CAPTURE AND MITIGATE THE FIRST FLUSH FLOWS TO THE MAXIMUM EXTENT PRACTICABLE, BEFORE ALLOWING CONTINUED FREE DISCHARGE INTO THE ARROYO. THESE IMPROVEMENTS WILL RETURN THE SITE TO THE ORIGINAL DRAINAGE DESIGN INTENT OF THE 1994 GRADING PLAN.

AS IN THE EXISTING CONDITION, THERE WILL CONTINUE TO BE NO OFFSITE FLOWS IMPACTING THE PROJECT SITE.

VI. FIRST FLUSH

THE PROPOSED WATER HARVESTING AREAS AT THE SOUTHWEST CORNER OF THE FIELD AND AT THE SOUTH END OF THE ASPHALT PAVED FLOWLINE WILL CAPTURE AND TREAT THE FIRST FLUSH RUNOFF GENERATED BY THE PROPOSED IMPROVEMENTS TO THE MAXIMUM EXTENT PRACTICABLE. FIRST FLUSH CALCULATIONS FOR THE NEW IMPERVIOUS AREAS PROPOSED BY THIS PROJECT INDICATE THAT 990 CF NEEDS TO BE CAPTURED AND TREATED; AVERAGE END AREA METHOD CALCULATIONS FOR THE DEVELOPED SITE DEMONSTRATE THAT THE COMBINED ONSITE WATER HARVESTING AREA CAPACITY IS 1,040 CF.

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 IMPROVEMENTS WILL RESULT IN A MINOR INCREASE IN PEAK DISCHARGE AND VOLUME OF RUNOFF GENERATED BY THE SITE. THE PROPOSED IMPROVEMENTS WILL GENERALLY DRAIN INTO WATER HARVESTING AREAS TO TREAT THE FIRST FLUSH RUNOFF BEFORE FREE DISCHARGING INTO THE NORTH HAHAN ARROYO, CAPTURING AND TREATING THE DEVELOPED RUNOFF DISCHARGED TO THE MAXIMUM EXTENT PRACTICABLE.

VIII. EROSION AND SEDIMENT CONTROL

THE PROJECT DISTURBS ONE-ACRE OF LAND, OR GREATER. A SEPARATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED CONCURRENT WITH THIS PLAN. A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN IS INCLUDED HEREIN THAT PROPOSES SILT FENCE BEST MANAGEMENT PRACTICES (TEMPORARY BMPs), SEDIMENT DETENTION BASINS (PERMANENT BMPs) AND GOOD HOUSEKEEPING BMPs TO CAPTURE CONSTRUCTION RELATED SEDIMENT FROM DISCHARGING TO THE ADJACENT AND DOWNSTREAM NORTH HAHN ARROYO.

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. IN ADDITION, AVERAGE END AREA METHOD HAS BEEN USED TO CALCULATE THE PROPOSED WATER HARVESTING RETENTION AREA CAPACITY. AS DEMONSTRATED BY THESE CALCULATIONS, THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINOR INCREASE IN DEVELOPED RUNOFF ATTRIBUTABLE TO THE DEVELOPMENT OF THE EXISTING TRACK AND FIELD, AND THE FIRST FLUSH RUNOFF GENERATED BY THE SITE WILL BE CAPTURED AND TREATED WITHIN THE PROPOSED WATER HARVESTING AREAS.

X. CONCLUSIONS

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 A MINOR INCREASE IN THE DEVELOPED PEAK DISCHARGE AND VOLUME OF RUNOFF VOLUME DISCHARGED FROM THE SITE.
4. BASED UPON THE PROXIMITY OF THE NORTH HAHN ARROYO AND THE EXISTING ALLOWABLE FREE DISCHARGE CONDITION, THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR DOWSTREAM DRAINAGE CONDITIONS
5. EROSION AND SEDIMENT CONTROL MEASURES ARE PROPOSED HEREIN FOR INSTALLATION DURING CONSTRUCTION; BMP INSTALLATION BASED ON THIS PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE CONSTRUCTION RELATED SEDIMENT DOES NOT DISCHARGE FROM THE SITE TO PUBLIC RIGHT-OF-WAY
6. PROPOSED WATER HARVESTING AREAS ARE SIZED TO CAPTURE AND TREAT THE FIRST FLUSH RUNOFF GENERATED BY THE SITE TO THE MAXIMUM EXTENT PRACTICABLE.

CALCULATIONS

I. SITE CHARACTERISTICS

A. PRECIPITATION ZONE = 3

B. $P_{100,\,6\,HR}$ = P_{360} = 2.6 IN

C.

TOTAL PROJECT AREA (A_T) =	294,500	SF
	6.76	AC

D. LAND TREATMENTS

1. **TRACK AND FIELD** — 3.58 AC

EXISTING LAND TREATMENT

TREATMENT	AREA (SF/AC)		%
A			
B	60,548	SF	39
	1.39	AC	
C	83,728	SF	54
	1.92	AC	
D	11,734	SF	8
	0.27	AC	

2. **NORTH PORTABLE PARK** — 3.18 AC

EXISTING LAND TREATMENT

TREATMENT	AREA (SF/AC)		%
A			
B			
C	103,875	SF	75
	2.38	AC	
D	34,625	SF	25
	0.79	AC	

3. **TRACK AND FIELD** — 3.58 AC

DEVELOPED LAND TREATMENT

TREATMENT	AREA (SF/AC)		%
A			
B	54,150	SF	35
	1.24	AC	
C	71,109	SF	46
	1.63	AC	
D	30,752	SF	20
	0.71	AC	

4. **NORTH PORTABLE PARK** — 3.18 AC

DEVELOPED LAND TREATMENT

TREATMENT	AREA (SF/AC)		%
A			
B			
C	96,350	SF	70
	2.21	AC	
D	42,150	SF	30
	0.97	AC	

1. **100-YR, 6-HR STORM** — **TRACK AND FIELD**

a. VOLUME 100-YR, 6-HR

$E_W = (E_AA_A+E_{B/B}A_{B/B}+E_CA_C+E_DA_D)/A_T$

E_W = (0.66*0.00) + (0.92*1.39) + (1.29*1.92) + (2.36*0.27)/3.58 = **1.23 IN**

$V_{100,6\,HR} = (E_W/12)A_T$ = (1.23/12)3.58 = 0.3671 AC-FT = **15,990 CF**

b. PEAK DISCHARGE

$Q_P = Q_{P/A}A_A + Q_{P/B}A_B + Q_{P/C}A_C + Q_{P/D}A_D$

Q_P = (1.87 * 0.00) + (2.60 * 1.39) + (3.45 * 1.92) + (5.02 * 0.27) = **11.6 CFS**

2. **100-YR, 6-HR STORM** — **NORTH PORTABLE PARK**

a. VOLUME 100-YR, 6-HR

$E_W = (E_AA_A+E_{B/B}A_{B/B}+E_CA_C+E_DA_D)/A_T$

E_W = (0.66*0.00) + (0.92*0.00) + (1.29*2.38) + (2.36*0.79)/3.18 = **1.56 IN**

$V_{100,6\,HR} = (E_W/12)A_T$ = (1.56/12)3.18 = 0.4133 AC-FT = **18,010 CF**

b. PEAK DISCHARGE

$Q_P = Q_{P/A}A_A + Q_{P/B}A_B + Q_{P/C}A_C + Q_{P/D}A_D$

Q_P = (1.87 * 0.00) + (2.60 * 0.00) + (3.45 * 2.38) + (5.02 * 0.79) = **12.2 CFS**

B. DEVELOPED CONDITION

TRACK AND FIELD

1. **100-YR, 6-HR STORM**

a. VOLUME

$E_W = (E_AA_A+E_{B/B}A_{B/B}+E_CA_C+E_DA_D)/A_T$

E_W = (0.66*0.00) + (0.92*1.24) + (1.29*1.63) + (2.36*0.71)/3.58 = **1.37 IN**

$V_{100,6\,HR} = (E_W/12)A_T$ = (1.37/12)3.58 = 0.4089 AC-FT = **17,810 CF**

b. PEAK DISCHARGE

$Q_P = Q_{P/A}A_A + Q_{P/B}A_B + Q_{P/C}A_C + Q_{P/D}A_D$

Q_P = (1.87 * 0.00) + (2.60 * 1.24) + (3.45 * 1.63) + (5.02 * 0.71) = **12.4 CFS**

NORTH PORTABLE PARK

2. **100-YR, 6-HR STORM**

a. VOLUME

$E_W = (E_AA_A+E_{B/B}A_{B/B}+E_CA_C+E_DA_D)/A_T$

E_W = (0.66*0.0037) + (0.92*0.00) + (1.29*2.21) + (2.36*0.971)/3.185 = **1.62 IN**

$V_{100,6\,HR} = (E_W/12)A_T$ = (1.62/12)3.185 = 0.4292 AC-FT = **18,700 CF**

b. PEAK DISCHARGE

$Q_P = Q_{P/A}A_A + Q_{P/B}A_B + Q_{P/C}A_C + Q_{P/D}A_D$

Q_P = (1.87 * 0.00) + (2.60 * 0.00) + (3.45 * 2.21) + (5.02 * 0.97) = **12.5 CFS**

C. COMPARISON

TRACK AND FIELD

1. **100-YR, 6-HR STORM**

a. VOLUME 100-YR, 6-HR

$\Delta V_{100,6\,HR}$ = 17810 - 15990 = **1,820 CF** (INCREASE

c. PEAK DISCHARGE

ΔQ_{100} = 12.4 - 11.6 = **0.8 CFS** (INCREASE

NORTH PORTABLE PARK

2. **100-YR, 6-HR STORM**

a. VOLUME 100-YR, 6-HR

$\Delta V_{100,6\,HR}$ = 18700 - 18010 = **690 CF** (INCREASE

c. PEAK DISCHARGE

ΔQ_{100} = 12.5 - 12.2 = **0.3 CFS** (INCREASE

D. FIRST FLUSH CALCULATIONS

OVERALL PROJECT SITE IMPERVIOUS IMPROVEMENTS

1. **RETENTION REQUIREMENT**

a. VOLUME

$V_{REQ} = ((P_{F.F.}-A_P)/12)A_O$

V_{REQ} = ((0.44-0.10)/12)(35020.00) = **990 CF**

E. WATER HARVESTING / FIRST FLUSH CAPACITY

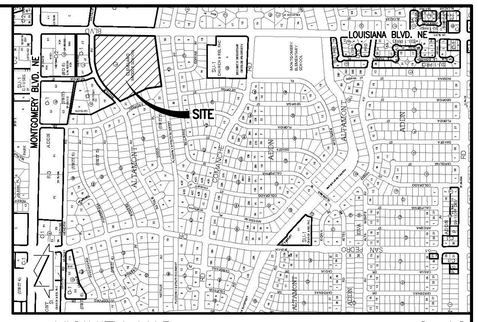
TRACK AND FIELD

ELEV	AREA (SF)	VOLUME (CF)	TOTAL VOLUME (CF)
5283	135		
		360	360
5283	1310		
		455	815
5283	1725		

PORTABLE PARK

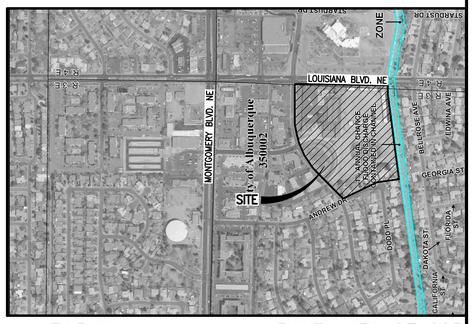
ELEV	AREA (SF)	VOLUME (CF)	TOTAL VOLUME (CF)
5288			
		225	225
5289	450		

TOTAL CAPACITY = 815 + 225 = 1,040 CF



E6 VICINITY MAP — G-18

SCALE: 1"=750'



D6 F.I.R.M. — PANEL 139 OF 825

SCALE: 1" = 750' — DATED: 9-26-2008

LEGAL DESCRIPTION

TRACT L, ALTAMONT, UNIT NO. 5, ALBUQUERQUE, NEW MEXICO, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON FEBRUARY 16, 1959, PLAT BOOK D2, PAGE 73.

BENCHMARKS

PROJECT BENCHMARK

A 3" BRASS DISK STAMPED "11-G19", SET FLUSH WITH THE GROUND, NEAR THE SOUTHEAST QUADRANT OF THE INTERSECTION OF LOUISIANA BOULEVARD AND VERANDA ROAD N.E.
ELEVATION = 5309.898 FEET (NAVD 1988)

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

A MAG NAIL W/WASHER SET IN ASPHALT, NEAR THE SOUTHWEST CORNER OF THE BAND BUILDING, AS SHOWN ON SHEET 2.
ELEVATION = 5291.16 FEET (NAVD 88)

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

A MAG NAIL W/WASHER SET IN AN ASPHALT PATH, NEAR THE NORTHEAST CORNER OF A BASKETBALL COURT, AS SHOWN ON SHEET 2.
ELEVATION = 5288.31 FEET (NAVD 88)

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

A CHISELED "+" SET IN A CONCRETE BASKETBALL COURT, NEAR THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON SHEET 2.
ELEVATION = 5287.63 FEET (NAVD 88)

J. GRAEME MEANS — NEW MEXICO — 13678 — REGISTERED PROFESSIONAL ENGINEER

2-6-2017

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DRAINAGE PLAN AND CALCULATIONS

TRACK AND FIELD IMPROVEMENTS
CLEVELAND MIDDLE SCHOOL
6910 NATALIE AVENUE N.E.

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./S.C.C.
APPROVED BY G.M.

NO.	DATE	BY	REVISIONS

JOB NO. 2016.180.3
DATE 02-2017
SHEET 7 OF 9

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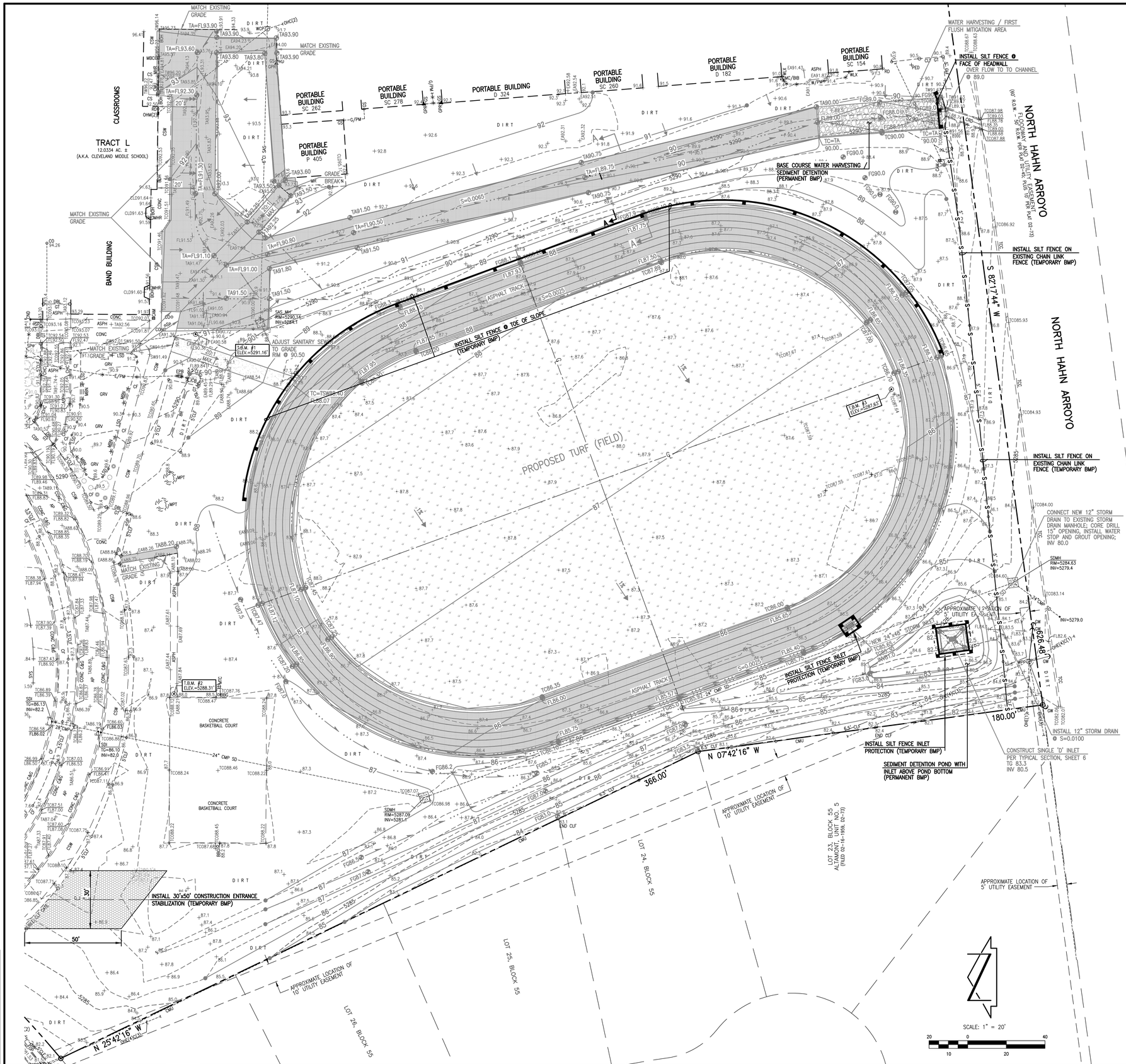

LEGEND

AP	ASPHALT PAVEMENT
ASPH	ASPHALT
BBG	BASKETBALL GOAL
BOH	BUILDING OVERHANG
BR	BICYCLE RACK
C&G	CURB AND GUTTER
CAM	SECURITY CAMERA
CDP	CONCRETE DRIVE PAD
CF	LANDSCAPING CRUSHER FINES
CHC	CONCRETE HEADER CURB
CHW	CONCRETE HEAD WALL
CI	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY WALL
CND	CONDUIT
CO	CLEANOUT
CONC	CONCRETE
CRD	CONCRETE RUNDOWN
CS	CONCRETE STEPS
CSW	CONCRETE SIDEWALK
DBL	DOUBLE
DYS	PAINTED DOUBLE YELLOW TRAFFIC STRIPE
E/PM	ELECTRIC LINE BY PAINT MARK
EA	EDGE OF ASPHALT
EPB	ELECTRIC PULLBOX
FBG	FLICKER BALL GOAL
FL	FLOWLINE
FOP	FENCE OPENING
G/PM	GAS LINE BY PAINT MARK
GPR	GAS PRESSURE REGULATOR
GRV	LANDSCAPING GRAVEL
GS	GAS SERVICE
GT	GATE
GW	GUY WIRE ANCHOR
ICB	IRRIGATION CONTROL BOX
IVB	IRRIGATION VALVE BOX
LSD	METAL LANDSCAPING DIVIDER
MBC	METAL BUILDING COLUMN
MBN	METAL BENCH
MC/BIB	METER CAN WITH BIB VALVE
MH	MANHOLE
MHR	METAL HANDRAIL
MLN	METAL LANDING
MPT	METAL PICNIC TABLE
MR	METAL RAMP
MS	METAL STAIRS
MTC	METAL TRASH CAN
OHC(1)	OVERHEAD COMMUNICATION (# OF LINES)
OHE(1)	OVERHEAD ELECTRIC (# OF LINES)
OHM	OVERHEAD UTILITY MAST
PED	STEEL PEDESTAL
RD	BUILDING ROOF DRAIN
SAS	SANITARY SEWER
SD	STORM DRAIN
SDI	STORM DRAIN INLET
SDMH	STORM DRAIN MANHOLE
SP	STEEL POLE
SW	CONCRETE SIDEWALK
SYS	PAINTED DASHED YELLOW TRAFFIC STRIPE
TA	TOP OF ASPHALT
TC	TOP OF CURB
TCC	TOP OF CONCRETE CHANNEL
TCO	TOP OF CONCRETE
TG	TOP OF GRATE
TS	TRAFFIC SIGN
TW	TOP OF WALL
VC	CONCRETE VALLEY GUTTER
W/PM	WATER LINE BY PAINT MARK
WCP	WOOD COMMUNICATION POLE
WCR	CONCRETE WHEELCHAIR RAMP
WLX	WATER LINE EXPOSED
WPP	WOOD POWER POLE
*	PAINTED UTILITY MARKER
1.0'Ø	DIAMETER OF TREE
	DECIDUOUS TREE
	SHRUB
	YUCCA
	EXISTING DOUBLE CLEANOUT
	PROPOSED DOUBLE CLEANOUT
83.7	EXISTING SPOT ELEVATION
87.00	PROPOSED SPOT ELEVATION
	EXISTING FLOWLINE
	PROPOSED FLOWLINE
5285	EXISTING CONTOUR
85	PROPOSED CONTOUR
	EXISTING DIRECTION OF FLOW
	PROPOSED DIRECTION OF FLOW
	RIGHT OF WAY LINE
	PUBLIC EASEMENT LINE
	HIGH POINT / DIVIDE
	PROPOSED CONCRETE PAVING
	PROPOSED ASPHALT PAVING
	PROPOSED TURF GRASS (FIELD)
	STABILIZED CRUSHER FINES PATH
	EXISTING FENCE
S S	CHAIN LINK FENCE WITH SILT FENCE ATTACHED
W W	WADDLES
	SILT FENCE
	PROPOSED DIRECTION OF FLOW
	EXISTING DIRECTION OF FLOW
	PROPOSED CONSTRUCTION ENTRANCE
	PROPOSED SILT FENCE INLET PROTECTION

BENCHMARKS

PROJECT BENCHMARK

A 3" BRASS DISK STAMPED "11-G19", SET FLUSH WITH THE GROUND, NEAR THE SOUTHEAST QUADRANT OF THE INTERSECTION OF LOUISIANA BOULEVARD AND VERANDA ROAD N.E.
ELEVATION = 5309.898 FEET (NAVD 1988)

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

A MAG NAIL W/WASHER SET IN ASPHALT, NEAR THE SOUTHWEST CORNER OF THE BAND BUILDING, AS SHOWN ON THIS SHEET.
ELEVATION = 5291.16 FEET (NAVD 88)

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

A MAG NAIL W/WASHER SET IN AN ASPHALT PATH, NEAR THE NORTHEAST CORNER OF A BASKETBALL COURT, AS SHOWN ON THIS SHEET.
ELEVATION = 5288.31 FEET (NAVD 88)

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

A CHISELED "+" SET IN A CONCRETE BASKETBALL COURT, NEAR THE SOUTHERN PORTION OF THE SITE, AS SHOWN ON THIS SHEET.
ELEVATION = 5287.63 FEET (NAVD 88)

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 811, FOR DESIGNATION (LINE-SPOTTING) 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. UTILITY INFORMATION SHOWN HEREON IS BASED UPON ONSITE SURFACE EVIDENCE, REVIEW OF AVAILABLE CITY OF ALBUQUERQUE DISTRIBUTION MAPS, APS RECORD DRAWINGS AND UTILITY LINE-SPOTS PROVIDED BY HIGH MESA CONSULTING GROUP (APS-SUE 2016.0505). IN ADDITION, UTILITY LINE-SPOTS WERE REQUESTED VIA THE NEW MEXICO ONE CALL SERVICE (TICKET NO. 16W2240251). 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 MAT 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..
6. 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.

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 CONSTRUCTION.

SURVEY NOTE:

THIS IS NOT A BOUNDARY SURVEY; DATA IS SHOWN FOR ORIENTATION ONLY. THE BOUNDARY INFORMATION DEPICTED BY THIS PLAN IS BASED UPON AN BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS 15075, DATED 12/21/2016 (2016.180.1). THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS BASED UPON THE PARTIAL TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 15075, DATED 12/21/2016 (2016.180.1).

J. GRAEME MEANS NEW MEXICO 13678 REGISTERED PROFESSIONAL ENGINEER

2-6-2017

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EROSION AND SEDIMENT CONTROL PLAN
TRACK AND FIELD IMPROVEMENTS
CLEVELAND MIDDLE SCHOOL
6910 NATALIE AVENUE N.E.

DESIGNED BY J.D.S.
DRAWN BY J.Y.R./S.C.C.
APPROVED BY G.M.

NO.	DATE	BY	REVISIONS

JOB NO. 2016.180.3
DATE 02-2017
SHEET 8 OF 9

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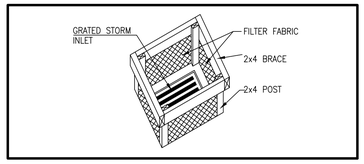
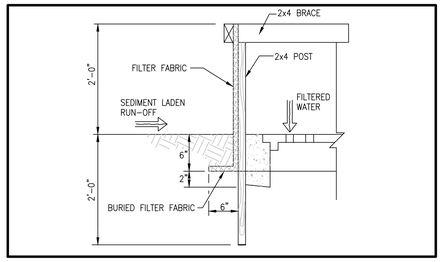


SILT FENCE INLET PROTECTION
NOT TO SCALE



SILT FENCE INLET PROTECTION SECTION
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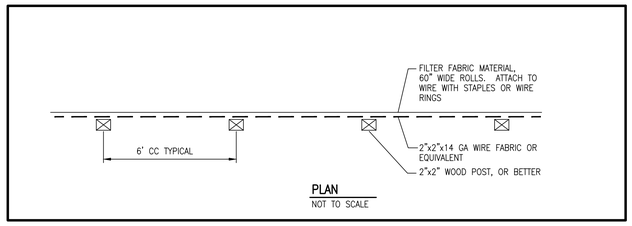

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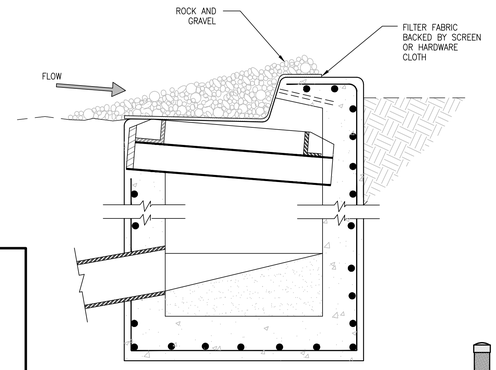
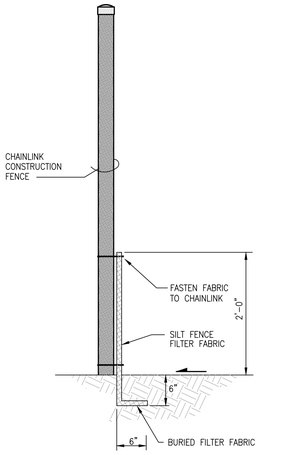


TYPICAL STORM INLET PROTECTION
SCALE: 1" = 1'-0" (OPTIONAL)



CONSTRUCTION FENCE/SILT FENCE SECTION
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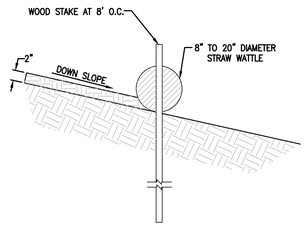


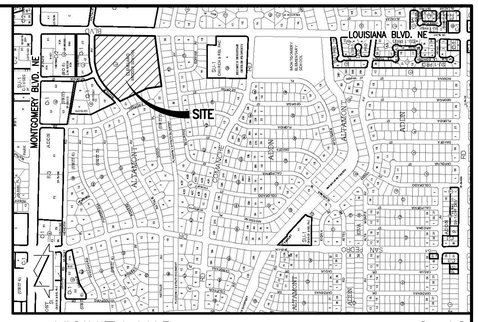
TYPICAL STRAW WATTLE INSTALLATION SECTION
SCALE: 1" = 1'-0" (OPTIONAL)

SEED MIX FOR SANDY SOILS

VARIETY/COMMON NAME	GENUS/SPECIES	PLS/ACRE
"PALOMA" INDIAN RICE GRASS	ORYZOPSIS HYMENOIDES	5.0
"VIVA" GALLETA GRASS	HILARIA JAMESII	1.0
"NINER" SIDE OATS GRAMA	BOUTELOUA CURTIPENDULA	3.0
"HATCHITA" BLUE GRAMA	BOUTELOUA GRACILIS	1.0
SAND DROPSEED (NM REGION)	SPOROBOLUS CRYPTANDRUS	1.0
FOUR-WING SALTBUSH (NM REGION)	ATRIPLEX CANESCENS (DE-WINGED)	1.0
TOTAL RATE:		12.0 LBS/ACRE

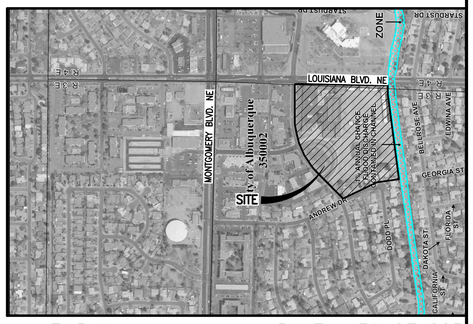
EROSION AND SEDIMENT CONTROL PLAN NOTES:

1. THIS PLAN ADDRESSES GENERAL AND SPECIFIC MEASURES FOR CONSTRUCTION PHASE EROSION, SEDIMENT AND DUST CONTROL. IT IS INTENDED TO COMPLEMENT THE PROJECT SPECIFIC STORM WATER POLLUTION AND PREVENTION PLAN (SWPPP) PREPARED FOR THIS PROJECT.
2. THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS BEFORE BEGINNING CONSTRUCTION.
3. THE CONTRACTOR SHALL INSTALL ALL PERIMETER BMPS BEFORE BEGINNING CONSTRUCTION.
4. REFER TO THE SWPPP PREPARED BY HIGH MESA CONSULTING GROUP, DATED _____ FOR PROJECT SPECIFIC PHASING AND INFORMATION. THIS PROJECT SHALL BE IMPLEMENTED IN PHASES TO MINIMIZE THE EXTENT AND DURATION OF SURFACE DISTURBANCE.
5. REFER TO THE GRADING AND DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP, DATED 2-6-17.
6. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR PRIVATE PROPERTY.
7. 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.
8. THE CONTRACTOR SHALL CLEAN AND REMOVE ALL FUGITIVE DUST, SOIL AND DEBRIS RESULTING FROM THIS PROJECT FROM THE ADJACENT STREETS AT THE END OF EACH DAY.
9. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL GOOD HOUSEKEEPING MEASURES OUTLINED IN THE SWPPP INCLUDING , BUT NOT LIMITED TO, DAILY PICKING UP TRASH , LITTER AND CONSTRUCTION DEBRIS.
10. THE CONTRACTOR SHALL PROMPTLY REMOVE SEDIMENT ACCUMULATION FROM SILT FENCES AND OTHER STRUCTURAL BMPS WITHIN 48 HOURS OF A RAINFALL EVENT.
11. THE CONTRACTOR SHALL IMPLEMENT ONSITE STRUCTURAL EROSION CONTROL MEASURES AS REQUIRED TO COMPLY WITH THE EROSION AND SEDIMENT CONTROL PLAN AND SWPPP. THESE MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO SILT FENCES, EARTHEN DIKES, DRAINAGE DIVERSIONS, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM WATER RETENTION SYSTEMS, GABIONS AND TEMPORARY OR PERMANENT SEDIMENT DETENTION BASINS. THE FOLLOWING MEASURES ARE PROPOSED FOR THIS PROJECT:
    a. PERIMETER SILT FENCE
    b. INTERIOR SILT FENCE
    c. ONSITE INLET PROTECTION
    d. SEDIMENT DETENTION BASINS
    e.
12. THE CONTRACTOR SHALL MINIMIZE OFFSITE VEHICLE TRACKING OF SEDIMENT AND DUST GENERATION.
13. CONCRETE TRUCKS SHALL BE SENT BACK TO THE PLANT FOR WASHING; THE WASHING OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THIS SITE UNLESS OTHERWISE PROVIDED FOR BY THIS PLAN. IF PROVIDED FOR BY THIS PLAN, CONCRETE TRUCKS MAY ONLY WASH OUT IN A DESIGNATED AND LINED WASHOUT FACILITY.
14. OFFSITE MATERIAL STORAGE AREAS USED BY THIS PROJECT ARE CONSIDERED PART OF THE PROJECT AND THEREFORE SUBJECT TO THE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLAN AND SWPPP.
15. UPON COMPLETION OF MASS GRADING, ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT CONSTRUCTION, LANDSCAPING, VEGETATION AND/OR GRAVEL MULCH. SILT FENCING CAN BE REMOVED UPON SUCCESSFUL ESTABLISHMENT OF VEGETATION.
16. THROUGHOUT THE DURATION OF THIS PROJECT, CONTRACTOR SHALL IMPLEMENT, MAINTAIN AND INSPECT ALL BMPS, KEEPING RECORDS OF EACH INSPECTION IN ACCORDANCE WITH THE SWPPP, AND KEEP RECORDS OF THE INSTALLATION MAINTENANCE, AND REMOVAL OF EACH BMP SPECIFIED BY THIS PLAN OR OTHERWISE PROVIDED FOR THROUGHOUT THE LIFE OF THE PROJECT.
17. THOSE PORTIONS OF THE COMPLETED PROJECT NOT STABILIZED WITH PERMANENT CONSTRUCTION OR FORMAL LANDSCAPING SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING FOR SANDY/CLAY SOILS PER THE SEED MIX SPECIFIED HEREON AND SPECIFICATIONS CONTAINED WITHIN THE SWPPP.
18. FINAL STABILIZATION OF THE PROJECT SITE WILL CONSIST OF THE FOLLOWING MEASURES:
    a. PERMANENT PAVING
    b. FORMAL LANDSCAPING
    c. _____
    d. _____
    e. _____
19. TOTAL SITE AREA = 12.3 ACRES (BASED ON 2016 BOUNDARY SURVEY)
20. TOTAL DISTURBED AREA = 4.5 ACRES



E6 VICINITY MAP
SCALE: 1"=750'

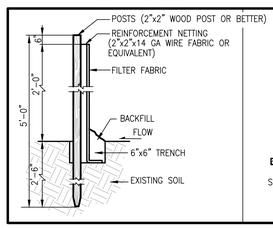
G-18



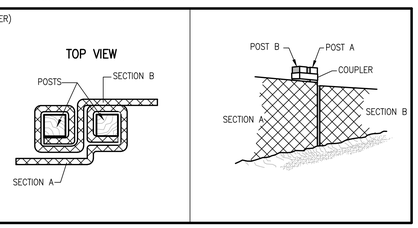
D6 F.I.R.M.
SCALE: 1" = 750'

PANEL 139 OF 825
DATED: 9-26-2008

TOE-IN METHOD



JOINING SECTIONS



PREFABRICATED SILT FENCE DETAILS
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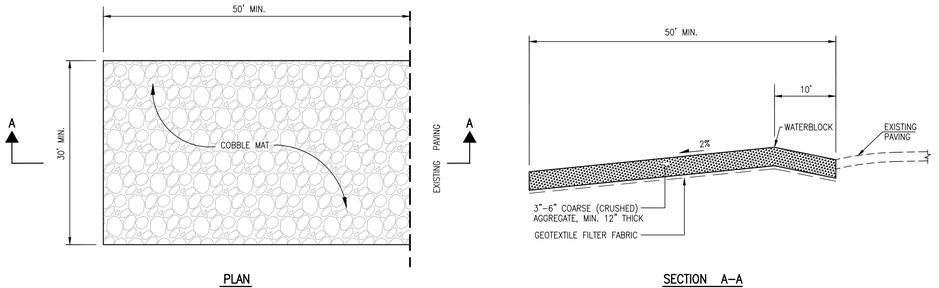

PLAN

SECTION A-A

CONSTRUCTION ENTRANCE STABILIZATION
SCALE: 1" = 10'-0" HORIZ.
1" = 2'-0" VERT.

J. GRAEME MEANS NEW MEXICO 13678 REGISTERED PROFESSIONAL ENGINEER

2-6-2017

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NO.	DATE	BY	REVISIONS

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DATE 02-2017
SHEET 9 OF 9

File Path: P:\AWA\2016\#2016.180.3\DWG | Plot Date: 02-03-2017
File Name: 161803_SH9.DWG | Plot Time: 12:30 pm