

CONSTRUCTION NOTES:

1. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 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. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

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.

CITY OF ALBUQUERQUE
DEVELOPMENT & BUILDING SERVICES CENTER
PLANNING DEPARTMENT/HYDROLOGY SECTION

HYDROLOGY & TRANSPORTATION PREDESIGN CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NUMBER: F10/D5 DATE: 02-12-2009
CROSS REFERENCE NUMBERS: EPC DRB DRC HMC 2009.004.1
SUBJECT: CHAPARRAL ELEMENTARY SCHOOL ADDITIONAL & SITE IMPROVEMENTS
STREET ADDRESS: 6325 MILNE ROAD NW
SUBDIVISION NAME: TRACT B, CHAPARRAL ELEMENTARY SCHOOL

TYPE OF APPROVAL
PRELIMINARY & FINAL PLAT
X BUILDING PERMIT
X GRADING PERMIT
X SITE DEVELOPMENT PLAN FOR SUBDIVISION
X OTHER MASTER DRAINAGE PLAN UPDATE

ATTENDEE: JEFF MORTENSEN ORGANIZATION: HMC PHONE: 345-4250
BRAD BINGHAM HYDROLOGY 924-3986

FINDINGS:

BACKGROUND:

- A. THE ORIGINAL SUBMITTAL FOR THIS SITE IS DATED 2/9/83 (BY HMC).
B. SINCE THE SITE WAS ORIGINALLY DEVELOPED, ADDITIONAL PORTABLE CLSSROOMS HAVE BEEN ADDED THAT HAVE NOT BEEN DEPICTED ON SUBSEQUENT DRAINAGE SUBMITTALS.
C. NO SUBSEQUENT SUBMITTALS FOUND IN THE CITY DRAINAGE FILES EXCEPT BUS LANE AND PARKING LOT EXPANSION THAT HAVE BEEN APPROVED BUT NOT CERTIFIED BY THE ENGINEER OF RECORD (NOT HMC).
D. NEW PUBLIC STORM DRAIN CONSTRUCTED THROUGH SITE PROVIDING OUTFALL FOR RINCONADA MESA TO LADERA BASIN #16B SOUTH SUMP (NOT SHOWN ON EITHER DRAINAGE SUBMITTAL REFERENCED ABOVE).
E. THE 1983 SUBMITTAL IS BASED UPON OBSOLETE HYDROLOGY METHODS NO LONGER ACCEPTED BY THE COA.
F. THE 1983 SUBMITTAL WAS APPROVED WITHOUT REQUIRING AN ENGINEER'S DRAINAGE CERTIFICATION; 1983 SUBMITTAL PRE-DATES THE REQUIREMENT OF CERTIFICATIONS FOR CERTIFICATE OF OCCUPANCY APPROVAL.

REQUIREMENTS FOR BUILDING PERMIT:

- A. SITE SPECIFIC DRAINAGE SUBMITTAL REQUIRED TO SUPPORT BUILDING PERMIT APPROVAL.
B. SUBMITTAL FOR BUILDING PERMIT NEEDS TO REFERENCE AN UPDATE MASTER DRAINAGE PLAN (MDP) FOR THE SITE (SEE BELOW FOR REQUIREMENTS).
C. FREE DISCHARGE TO THE LADERA BASIN #16B SOUTH SUMP PERMISSIVE AS WELL AS PROGRAMMED FOR THIS SITE AS WELL AS UPSTREAM CONTRIBUTING WATERSHED.
D. DISCHARGE TO THE LADERA BASIN #16B SOUTH SUMP MUST UTILIZE EXISTING POINTS OF DISCHARGE (I.E. NO NEW PENETRATIONS INTO THE BASIN WITHOUT WORK ORDER).
E. THE LADERA BASIN #16B SOUTH SUMP IS OWNED, OPERATED AND MAINTAINED BY THE CITY OF ALBUQUERQUE.
F. CONNECTIONS TO ANY OF THE PUBLIC STORM DRAIN FACILITIES DISCHARGING INTO THE LADERA BASIN #16B SOUTH SUMP WILL REQUIRE SO #19 APPROVAL(S).
G. REFERENCE DRAINAGE BASIN(S) AS DEFINED BY THE MDP REFERENCED AND DESCRIBED BELOW.
H. IDENTIFY ANY IMPACTS (CHANGES IN BASIN BOUNDARIES, INCREASES OR DECREASES IN RUNOFF, METHODS OF DISCHARGE) TO THE DRAINAGE BASINS AS DEFINED BY THE MDP REFERENCED AND DESCRIBED BELOW.

MASTER DRAINAGE PLAN:

- A. SUBMITTAL SHOULD INCLUDE/ADDRESS THE FOLLOWING MINIMUM CRITERIA:
1) CURRENT SITE BOUNDARIES (PROPERTY REPLATTED SINCE DATE OF ORIGINAL SUBMITTAL).
2) IDENTIFY EXISTING DRAINAGE BASIN BOUNDARIES PER CURRENT CONDITIONS.
3) PROVIDE A DISCUSSION OF EXISTING DRAINAGE BASINS AS DEFINED ABOVE.
4) PROVIDE CALCULATIONS FOR THE EXISTING DRAINAGE BASINS AS DEFINED ABOVE.
5) EXISTING PUBLIC STORM DRAINAGE IMPROVEMENTS WITHIN AND IMMEDIATELY ADJACENT TO THE SITE.
6) FREE DISCHARGE REQUIREMENTS AND CRITERIA FOR SUBSEQUENT ONSITE DEVELOPMENT.
B. THE UPDATED MDP DOES NOT HAVE TO ADDRESS FUTURE PLANNED IMPROVEMENTS; IT IS INTENDED TO PROVIDE A BASIS FOR SUPPORTING SUBSEQUENT SITE SPECIFIC PLANS.
C. THE UPDATED MDP WILL DOCUMENT ALL CHANGES SINCE THE ORIGINAL 1983 PLAN AND THEREBY TAKE THE PLACE OF AN ENGINEER'S DRAINAGE CERTIFICATION OF PREVIOUSLY APPROVED SUBMITTALS AND/OR SUBMITTALS WITH NO OFFICIAL STATUS.

THE UNDERSIGNED AGREE THAT THE ABOVE FINDINGS ARE SUMMARIZED ACCURATELY AND ARE ONLY SUBJECT TO CHANGE IF FURTHER INVESTIGATION REVEALS THAT THE FINDINGS ARE NOT REASONABLE OR THAT THEY ARE BASED UPON INACCURATE INFORMATION.

SIGNED: [Signature] DATE: 02-16-2009
TITLE: CONSULTANT
SIGNED: [Signature] DATE: 2/17/09
TITLE: CITY HYDROLOGIST

NOTE: PLEASE PROVIDE A COPY OF THIS RECAP WITH EACH DRAINAGE & TRANSPORTATION SUBMITTAL.

HMC PROJECT NO. 2009.004.1

LEGAL DESCRIPTION

TRACT B, CHAPARRAL ELEMENTARY SCHOOL.

BENCHMARKS

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W. ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

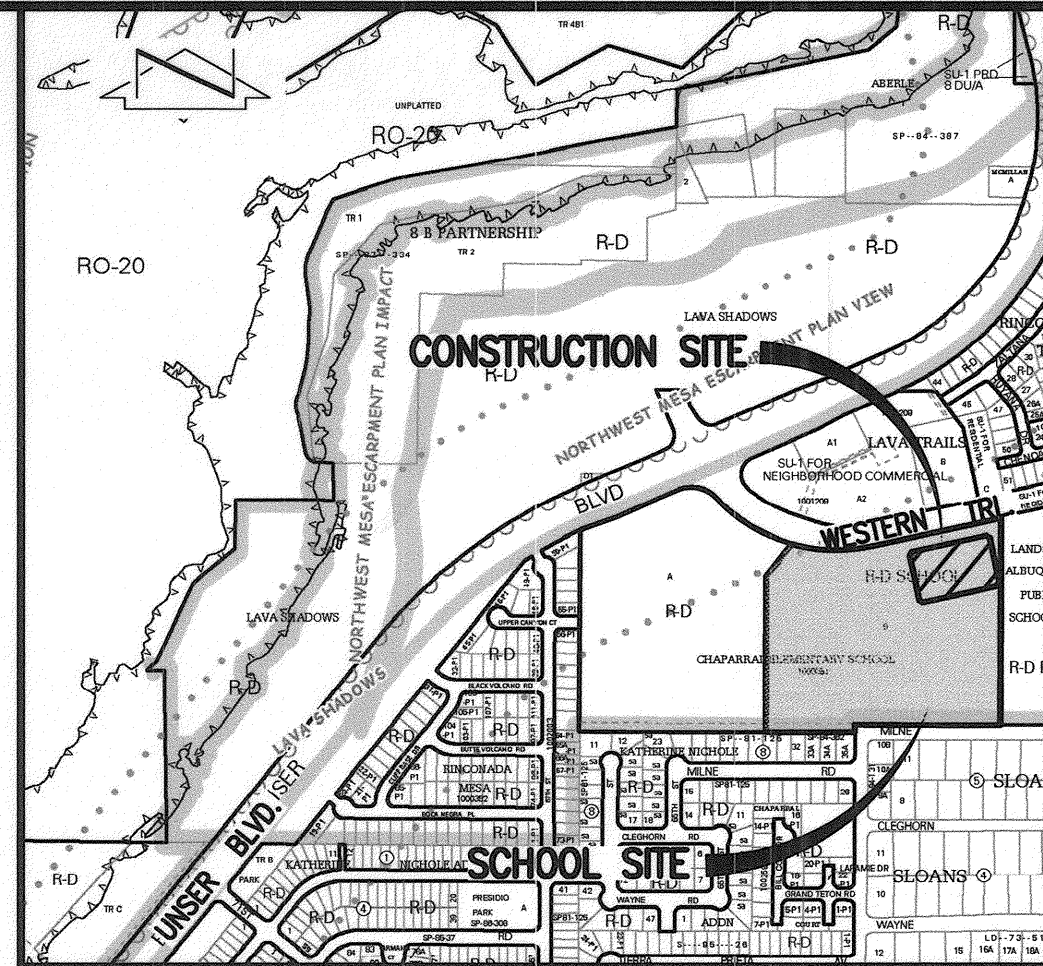
A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184" LOCATED IN MEDIAN OF WESTERN TRAIL NW NORTH OF TRACT B, AS SHOWN ON SHEET 2. ELEVATION = 5113.74 FEET (NAVD 88)

T.B.M. #2

A CHISELED "I" ON TOP OF STORM INLET LOCATED AT THE SE QUADRANT OF INTERSECTION OF UNSER BOULEVARD N.W. AND WESTERN TRAIL N.W., AS SHOWN ON SHEET 2. ELEVATION = 5111.62 FEET (NAVD 88)

T.B.M. #3

A CHISELED "+" LOCATED AT THE SE PROPERTY CORNER OF TRACT B, AS SHOWN ON SHEET 2. ELEVATION = 5109.70 FEET (NAVD 88)



VICINITY MAP

SCALE: 1" = 750'±

F-10

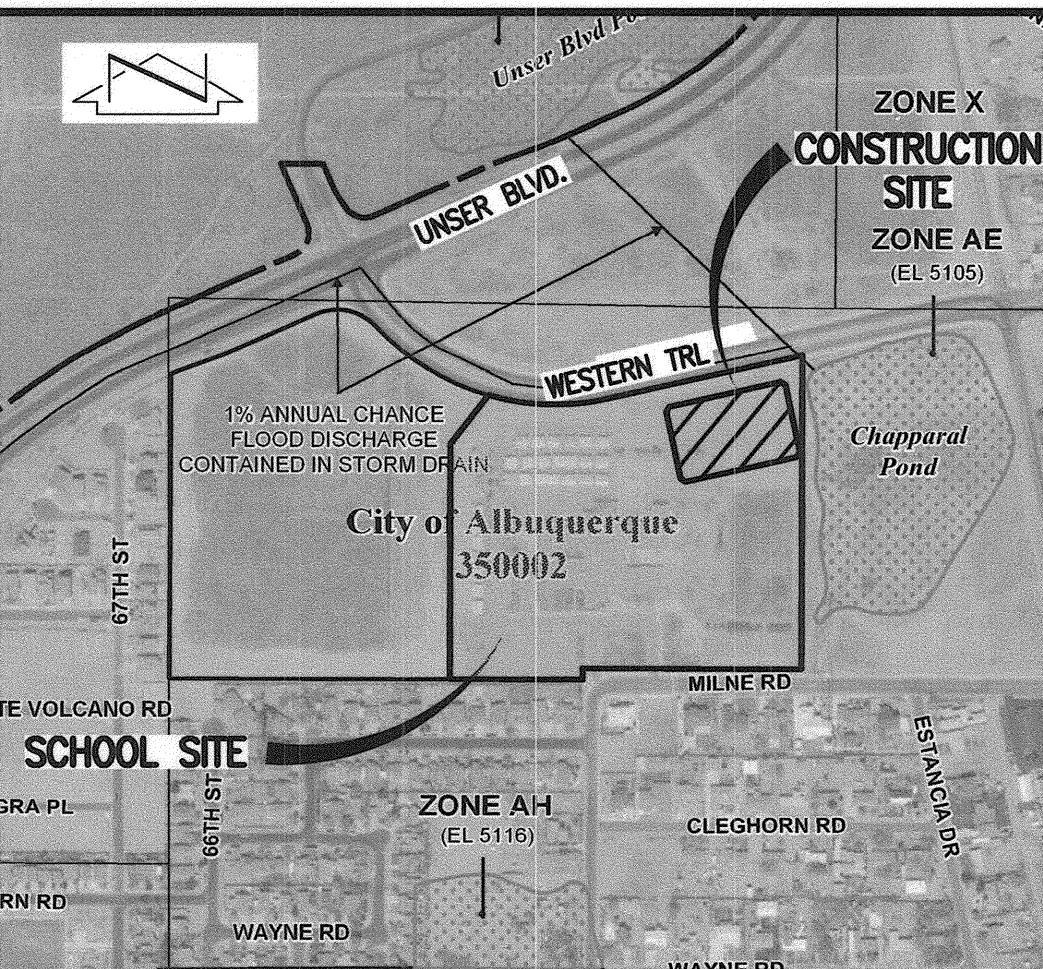
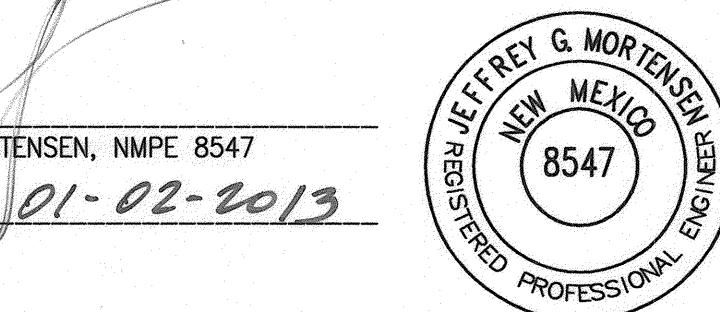
ENGINEER'S DRAINAGE CERTIFICATION

I, JEFFREY G. MORTENSEN, NMPE 8547, OF THE FIRM HIGH MESA CONSULTING GROUP, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED, DRAINED AND CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 12-22-2011 AND REVISED 05-15-2012 TO INCORPORATE AN ADJACENT BUSBUY (BY SEPARATE SUBMITTAL). THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR PERSONNEL UNDER MY DIRECT SUPERVISION AS SUPPLEMENTAL SITE DATA COMBINED WITH RECORD INFORMATION OBTAINED FROM THE AS-BUILT SURVEY DATED 11-16-2012 PERFORMED UNDER THE DIRECT SUPERVISION OF CHARLES G. CALA, JR., (NMPS 11184) OF THE FIRM HIGH MESA CONSULTING GROUP AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED TO DOCUMENT COMPLETION OF THOSE IMPROVEMENTS IDENTIFIED ON THE APPROVED PLAN FOR THE OWNER AND CITY OF ALBUQUERQUE TO SATISFY CONDITIONS OF GRADING AND PAVING APPROVAL.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE AND SPECIFIC LIMITED ASPECTS OF THIS PROJECT. THIS CERTIFICATION DOES NOT ADDRESS ADA COMPLIANCE WHICH IS BEYOND THE SCOPE OF GRADING AND DRAINAGE. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

JEFFREY G. MORTENSEN, NMPE 8547

DATE



F.I.R.M.

SCALE: 1" = 500'±

PANEL 114 OF 825

9-26-2008

INDEX OF DRAWINGS

| SHEET NO. | DESCRIPTION |
|-----------|--|
| 1 OF 11 | SUPPLEMENTAL SITE AND DRAINAGE INFORMATION |
| 2 OF 11 | OVERALL PLAN (FOR ORIENTATION) |
| 3 OF 11 | DEMOLITION PLAN (FOR EXISTING CONDITIONS) |
| 6 OF 11 | GRADING PLAN |
| 7 OF 11 | DRAINAGE PLAN AND CALCULATIONS |
| 8 OF 11 | EROSION CONTROL PLAN |
| 9 OF 11 | EROSION CONTROL DETAILS AND SECTIONS |

RECORD DRAWING

HYDROLOGY FILE NO. F10/D005

HIGH MESA 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
TRACK AND FIELD IMPROVEMENTS
CHAPARRAL
ELEMENTARY SCHOOL

| DESIGNED BY | NO. | DATE | BY | REVISIONS | JOB NO. |
|-------------|---------------|-------|--------|----------------|--------------|
| J.G.M. | 1 | 12/12 | B.E.E. | RECORD DRAWING | 2011.180.9 |
| DRAWN BY | J.Y.R./E.J.S. | | | | DATE |
| APPROVED BY | J.G.M. | | | | 12-2011 |
| | | | | | SHEET 1 OF 1 |

BOUNDARY TABLES

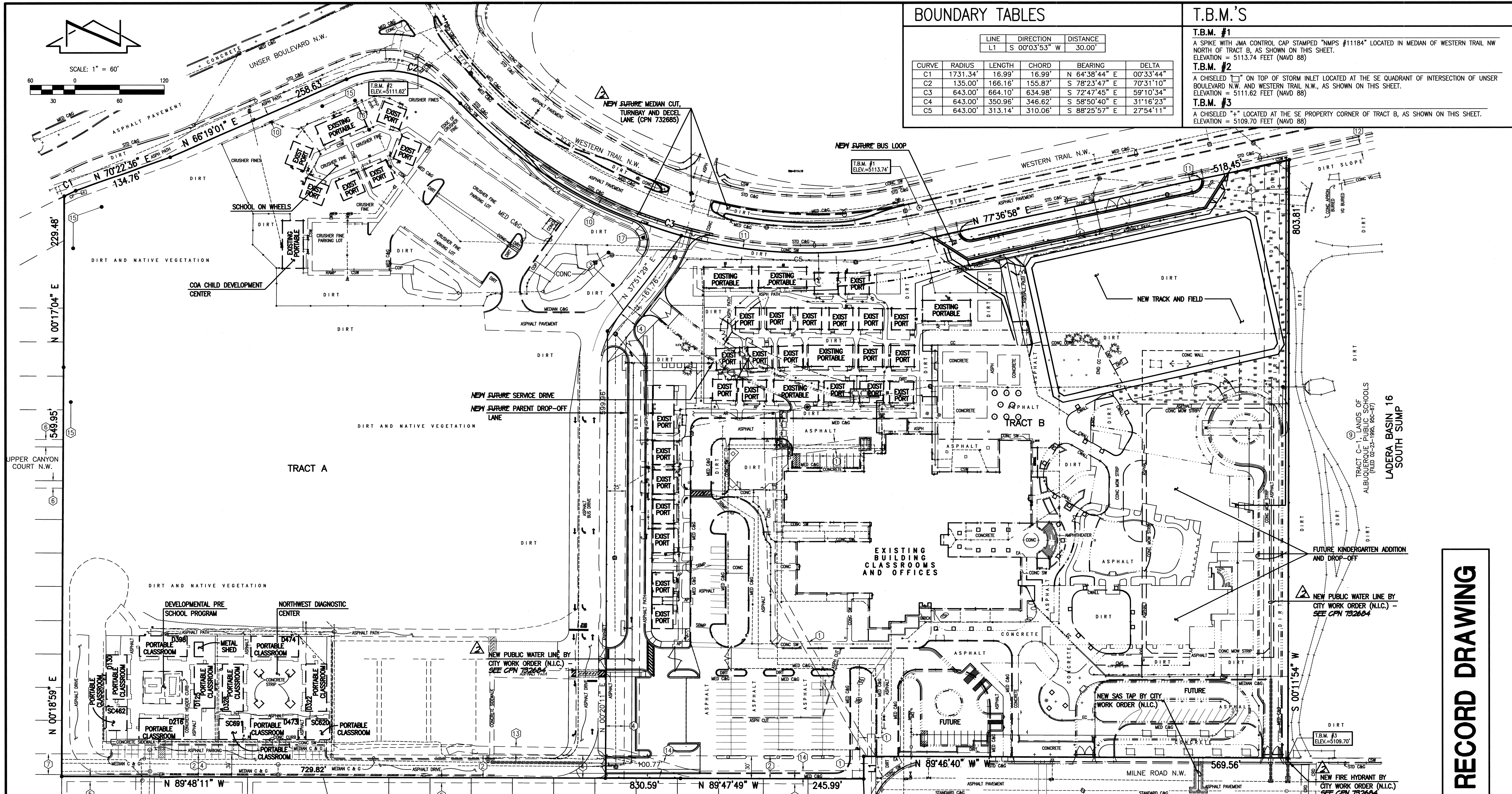
| LINE | CURVE | RADIUS | LENGTH | CHORD | BEARING | DELTA |
|------|-------|----------|---------|---------|---------------|-----------|
| | | | | | | |
| 1 | | | | | S 00°03'53" W | 30.00' |
| 2 | C1 | 1731.34' | 16.99' | 16.99' | N 64°38'44" E | 00°33'44" |
| 3 | C2 | 135.00' | 166.16' | 155.87' | S 78°23'47" E | 70°31'10" |
| 4 | C3 | 643.00' | 664.10' | 634.98' | S 72°47'45" E | 59°10'34" |
| 5 | C4 | 643.00' | 350.96' | 346.62' | S 58°50'40" E | 31°16'23" |
| 6 | C5 | 643.00' | 313.14' | 310.06' | S 88°25'57" E | 27°54'11" |

T.B.M.'S

T.B.M. #1
A SPIKE WITH JMA CONTROL CAP STAMPED "NMP5 #11184" LOCATED IN MEDIAN OF WESTERN TRAIL NW NORTH OF TRACT B, AS SHOWN ON THIS SHEET.
ELEVATION = 5113.74 FEET (NAVD 88)

T.B.M. #2
A CHISELED "X" ON TOP OF STORM INLET LOCATED AT THE SE QUADRANT OF INTERSECTION OF UNSER BOULEVARD N.W. AND WESTERN TRAIL N.W., AS SHOWN ON THIS SHEET.
ELEVATION = 5111.62 FEET (NAVD 88)

T.B.M. #3
A CHISELED "X" LOCATED AT THE SE PROPERTY CORNER OF TRACT B, AS SHOWN ON THIS SHEET.
ELEVATION = 5109.70 FEET (NAVD 88)



KEYED NOTES

- EASEMENTS**
- 10' P.N.M. AND M.S.T.&T. EASEMENT GRANTED BY DOCUMENT EXECUTED 11-15-1983 (UNRECORDED)
 - 30' WATER AND SANITARY SEWER EASEMENT GRANTED BY PLAT C20-172
 - APPROXIMATE LOCATION OF FUTURE PRIVATE ACCESS AND PUBLIC UTILITY EASEMENT (WATER, SANITARY SEWER, ELECTRIC, COMMUNICATION AND GAS) GRANTED BY PLAT 2000C-9 TO SERVE TRACT B. ULTIMATE ALIGNMENT TO BE DETERMINED IN CONJUNCTION WITH SUBSEQUENT PLATING/DEVELOPMENT OF TRACT A. MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE OWNER OF TRACT A.
 - PUBLIC STORM DRAIN EASEMENT GRANTED BY DOCUMENT FILED 05-22-2001, BOOK A19, PAGE 6814, DOC. #2001058400
 - 10' PNM ELECTRIC AND GAS EASEMENT GRANTED BY DOCUMENT EXECUTED 08-25-2006
 - 10' PNM ELECTRIC AND GAS EASEMENT GRANTED BY DOCUMENT EXECUTED 08-25-2006

- EASEMENTS**
- 10' PNM ELECTRIC AND GAS EASEMENT GRANTED BY DOCUMENT FILED 10-12-2007, DOC#2007144467, RECORDS OF BERNALILLO COUNTY, NEW MEXICO
 - 10' PNM ELECTRIC AND GAS EASEMENT GRANTED BY DOCUMENT FILED 10-12-2007, DOC#2007144466, RECORDS OF BERNALILLO COUNTY, NEW MEXICO
 - GENERAL LOCATION OF 10' PNM GAS EASEMENT (GRANT OF OPTION) GRANTED BY DOCUMENT EXECUTED 07-24-2008. EASEMENT CENTERLINE IS BASED UPON AS-INSTALLED LOCATION (NOT SURVEYED).
 - GENERAL LOCATION OF 10' PNM ELECTRIC EASEMENT (GRANT OF OPTION) GRANTED BY DOCUMENT EXECUTED 07-24-2008. EASEMENT CENTERLINE IS BASED UPON AS-INSTALLED LOCATION (NOT SURVEYED).

KEYED NOTES CONTINUED

- EASEMENTS - OFFSITE**
- 7' PUBLIC UTILITY EASEMENT GRANTED BY PLAT C19-131
 - 10' PUBLIC UTILITY EASEMENT GRANTED BY PLAT 2001C-216
 - PUBLIC STORM DRAIN, PUBLIC WATERLINE AND PUBLIC SANITARY SEWER EASEMENTS GRANTED BY PLAT 2001C-216
 - 25' PUBLIC WATER AND PUBLIC SANITARY SEWER EASEMENTS GRANTED BY DOCUMENT FILED 05-18-2001, BOOK A19, PAGE 5621, DOC. #2001057207
 - A.M.A.F.C.A. FLOODWAY AND STORM DRAINAGE WORKS EASEMENT GRANTED BY DOCUMENT FILED 06-15-1983, DOC. #1983038900
 - 10' PNM ELECTRIC AND GAS EASEMENT GRANTED BY DOCUMENT EXECUTED 08-25-2006

OVERALL PLAN (FOR ORIENTATION ONLY)
TRACK AND FIELD IMPROVEMENTS
CHAPARRAL ELEMENTARY SCHOOL

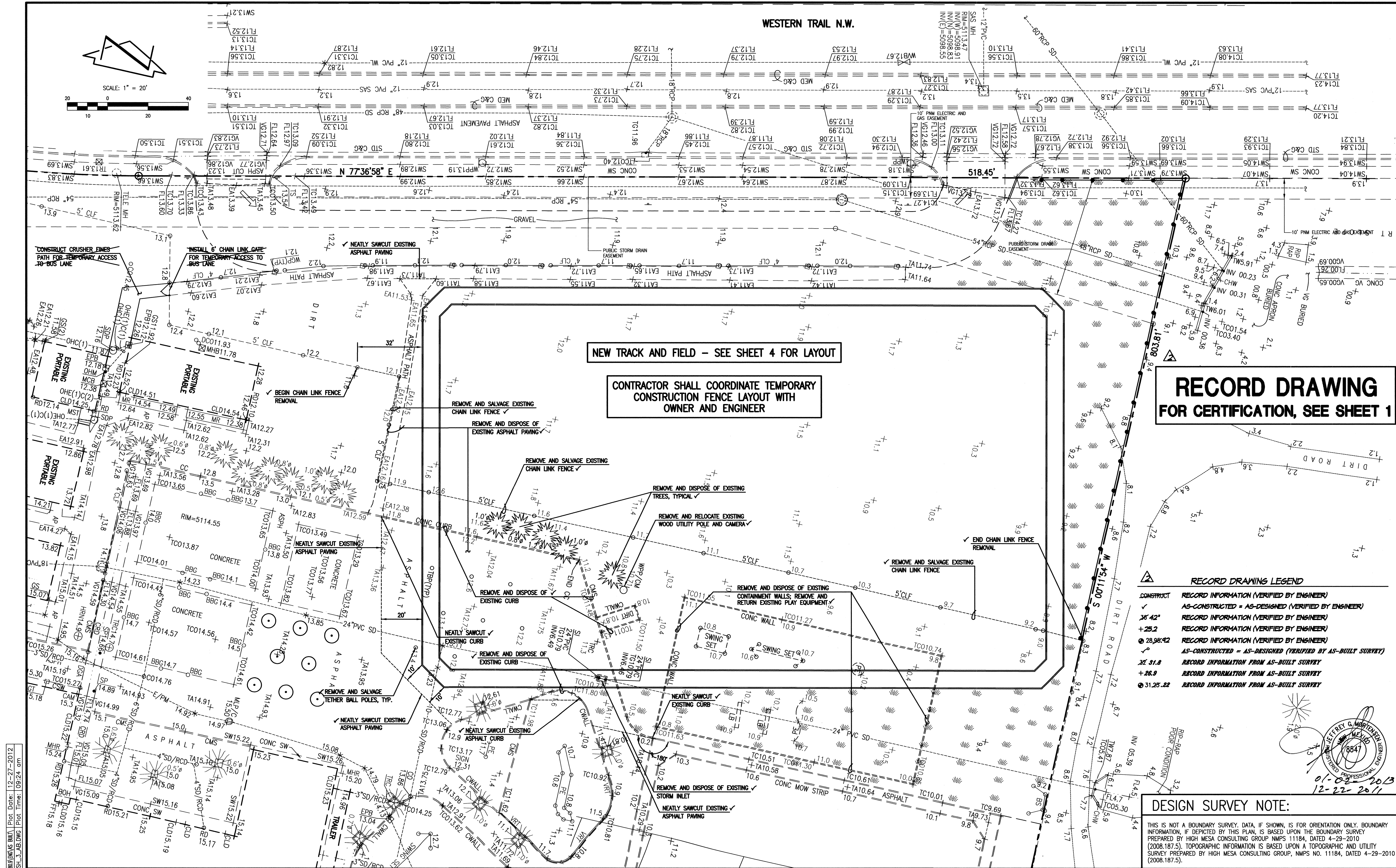
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| DESIGNED BY | J.G.M. | NO. | DATE | BY | REVISIONS | JOB NO. |
| DRAWN BY | J.Y.R./E.J.S. | 1 | 04/12 | B.E.E. | RECORD DRAWING | 2011.180.9 |
| APPROVED BY | J.G.M. | | | | | DATE |
| | | | | | | 12-2011 |
| | | | | | | SHEET |
| | | | | | | 2 OF 11 |

File Path: P:\DWG\2011\180\180.BAK Plot Date: 12-27-2012
File Name: 111809-SH-2-AD.DWG Plot Time: 10:01 am

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

RECORD DRAWING

01-02-10/13
12-22-2011



NEW TRACK AND FIELD - SEE SHEET 4 FOR LAYOUT

CONTRACTOR SHALL COORDINATE TEMPORARY CONSTRUCTION FENCE LAYOUT WITH OWNER AND ENGINEER

RECORD DRAWING FOR CERTIFICATION, SEE SHEET 1

| RECORD DRAWING LEGEND | |
|-----------------------|--|
| CONSTRUCT | RECORD INFORMATION (VERIFIED BY ENGINEER) |
| ✓ | AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY ENGINEER) |
| 36' 42" | RECORD INFORMATION (VERIFIED BY ENGINEER) |
| +25.2 | RECORD INFORMATION (VERIFIED BY ENGINEER) |
| 28.98.42 | RECORD INFORMATION (VERIFIED BY ENGINEER) |
| ✓ | AS-CONSTRUCTED = AS-DESIGNED (VERIFIED BY AS-BUILT SURVEY) |
| 31.31.8 | RECORD INFORMATION FROM AS-BUILT SURVEY |
| +26.9 | RECORD INFORMATION FROM AS-BUILT SURVEY |
| 31.25.22 | RECORD INFORMATION FROM AS-BUILT SURVEY |

DESIGN SURVEY NOTE:
THIS IS NOT A BOUNDARY SURVEY. DATA, IF SHOWN, IS FOR ORIENTATION ONLY. BOUNDARY INFORMATION, IF DEPICTED BY THIS PLAN, IS BASED UPON THE BOUNDARY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP NMP5 11184, DATED 4-29-2010 (2008.187.5). TOPOGRAPHIC INFORMATION IS BASED UPON A TOPOGRAPHIC AND UTILITY SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMP5 NO. 11184, DATED 4-29-2010 (2008.187.5).

DEMOLITION AND TEMPORARY IMPROVEMENTS PLAN
TRACK AND FIELD IMPROVEMENTS
CHAPARRAL ELEMENTARY SCHOOL

| DESIGNED BY | DATE | BY | REVISIONS | JOB NO. |
|-------------|-------|---------------|----------------------------------|---------------|
| J.G.M. | 04/12 | B.E.E. | RECORD DRAWING AND CERTIFICATION | 2011.180.9 |
| DRAWN BY | | J.Y.R./E.J.S. | | DATE |
| APPROVED BY | | J.G.M. | | 12-2011 |
| | | | | SHEET 3 OF 11 |

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

File Path: P:\MWA\2011\180\BNS BUA Plot Date: 12-27-2012
File Name: 111809-SH-6-AB.DWG Plot Time: 12:26 pm

SURVEY LEGEND:

| | |
|-------|-------------------------------------|
| ASPH | ASPHALT |
| BBG | BASKETBALL GOAL POST |
| C&G | CURB AND GUTTER |
| CLD | CENTERLINE OF DOOR |
| CLF | CHAINLINK FENCE |
| CONC | CONCRETE |
| CHW | CONCRETE HEADER WALL |
| CWALL | CONCRETE WALL |
| EA | EDGE OF ASPHALT |
| EC | EDGE OF CONCRETE |
| EPB | ELECTRIC PULLBOX |
| FL | FLOWLINE |
| INV | INVERT ELEVATION |
| MED | MEDIAN |
| MH | MANHOLE |
| MR | METAL RAMP |
| MLP | METAL LIGHT POLE |
| MLP/C | METAL LIGHT POLE WITH CONCRETE BASE |
| PVC | POLYVINYL CHLORIDE |
| RD | ROAD |
| SAS | SANITARY SEWER |
| SD | STORM DRAIN |
| SW | SIDEWALK |
| TA | TOP OF ASPHALT |
| TC | TOP OF CURB |
| TCO | TOP OF CONCRETE |
| VG | VALLEY GUTTER |
| WPP | WOOD POWER POLE |
| WL | WATERLINE |
| WVB | WATER VALVE BOX |

GRADING LEGEND:

| | |
|---------|--|
| EA | EDGE OF ASPHALT |
| FL | FLOWLINE |
| TC | TOP OF CURB |
| TA | TOP OF ASPHALT |
| ● | FIRE HYDRANT |
| ○ | REDUCER |
| □ | WATER VALVE |
| □ | WATER SERVICE |
| ○ 09.10 | PROPOSED SPOT ELEVATION |
| --- | EXISTING FLOWLINE |
| --- | PROPOSED FLOWLINE |
| --- | PROPOSED CONTOUR |
| → | EXISTING DIRECTION OF FLOW |
| → | PROPOSED SLOPE ARROW |
| → | PROPOSED DIRECTION OF FLOW |
| + | HIGH POINT / DIVIDE |
| --- | PROPOSED ASPHALT |
| --- | REVEGETATE WITH NATIVE GRASS SEEDING (SEE SHEET 8) |
| --- | EXISTING DRAINAGE BASIN BOUNDARY |

DESIGN SURVEY NOTE:

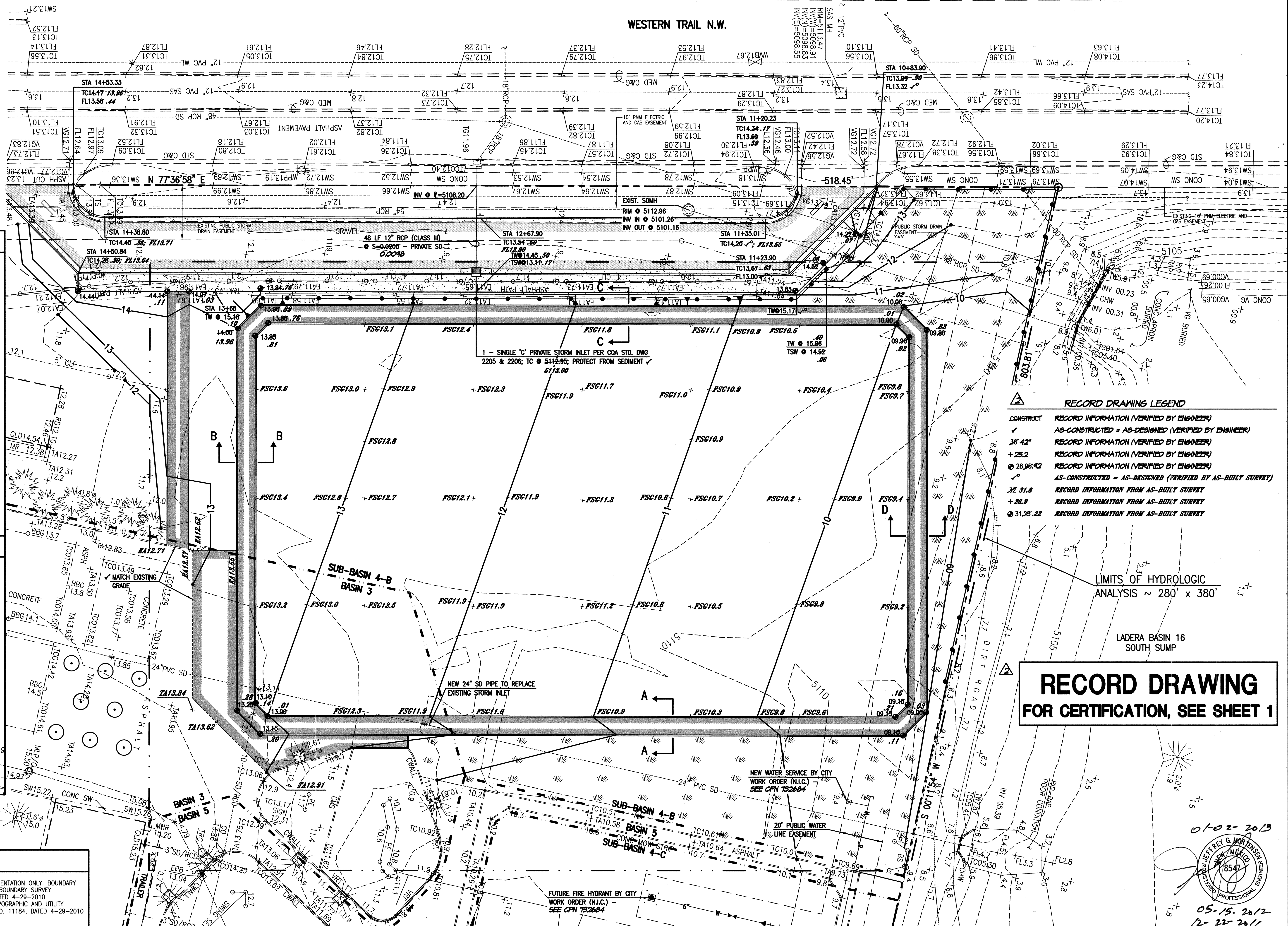
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6010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

GRADING PLAN

TRACK AND FIELD IMPROVEMENTS CHAPARRAL ELEMENTARY SCHOOL

WESTERN TRAIL N.W.



| RECORD DRAWING LEGEND | |
|-----------------------|--|
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| 31.25.22 | RECORD INFORMATION FROM AS-BUILT SURVEY |

**RECORD DRAWING
FOR CERTIFICATION, SEE SHEET 1**

01-02-2013

JEFFREY G. WORTEN
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
8547

05-15-2012
12-22-2011

| DESIGNED BY | DATE | BY | REVISIONS | JOB NO. |
|---------------|-------|--------|----------------------------------|---------------|
| J.G.M. | 04/12 | J.G.M. | ADD BUS BAY | 2011.180.9 |
| J.Y.R./E.J.S. | 11/12 | B.E.E. | RECORD DRAWING AND CERTIFICATION | DATE 12-2011 |
| J.G.M. | | | | SHEET 6 OF 11 |

DRAINAGE PLAN

I. INTRODUCTION AND EXECUTIVE SUMMARY

THIS PROJECT, LOCATED ON THE NORTHWEST MESA OF THE ALBUQUERQUE METROPOLITAN AREA, REPRESENTS A MODIFICATION TO AN EXISTING SITE WITHIN AN INFILL AREA. THE SCHOOL SITE IS LOCATED SOUTH OF WESTERN TRAIL NW BETWEEN UNSER BLVD NW AND ATRISCO DRIVE NW. THE SITE IS DEVELOPED AS AN ALBUQUERQUE PUBLIC SCHOOLS ELEMENTARY SCHOOL. THE PROJECT SITE LIES AT THE NORTHEAST CORNER OF THE SCHOOL CAMPUS. THE PROPOSED IMPROVEMENTS CONSIST OF A NEW TRACK AND TURF GRASS FIELD. THESE IMPROVEMENTS ARE BEING CONSTRUCTED IN ADVANCE OF A NEW KINDERGARTEN CLASSROOM BUILDING THAT WILL DISPLACE THE EXISTING TRACK AND FIELD. ALL PROPOSED IMPROVEMENTS LIE WITHIN BASINS 3 AND 4-B OF THE SITE.

THE PROPOSED DRAINAGE CONCEPT IS TO MAINTAIN FREE DISCHARGE FROM THE SITE TO THE LADERA BASIN 16 SOUTH SUMP, A PUBLIC DETENTION POND, PER THE APPROVED 2009 MASTER DRAINAGE PLAN.

THIS SUBMITTAL IS MADE IN SUPPORT OF GRADING AND PAVING PERMIT APPROVALS.

II. PROJECT DESCRIPTION

AS SHOWN BY THE VICINITY MAP, THE SCHOOL SITE IS LOCATED SOUTH OF WESTERN TRAIL NW, BETWEEN UNSER BLVD NW AND ATRISCO DRIVE NW. THE PROJECT SITE IS LOCATED AT THE NORTHEAST CORNER OF THE SCHOOL CAMPUS, IMMEDIATELY ADJACENT TO THE LADERA BASIN 16 SOUTH SUMP. THE CURRENT LEGAL DESCRIPTION IS TRACT B, CHAPARRAL ELEMENTARY SCHOOL, AS SHOWN BY PANEL 114 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY FEMA FOR BERNALILLO COUNTY, NEW MEXICO, DATED SEPTEMBER 26, 2008. THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE. THIS SITE DOES, HOWEVER, LIE IMMEDIATELY ADJACENT TO AN AE DESIGNATED FLOOD HAZARD ZONE THAT COINCIDES WITH THE LADERA BASIN 16 SOUTH SUMP, A PUBLIC DETENTION POND. THE PROJECT SITE IS CURRENTLY ALLOWED FREE DISCHARGE TO THE PUBLIC DETENTION POND.

III. BACKGROUND DOCUMENTS & RESEARCH

THE PREPARATION OF THIS SUBMITTAL RELIED UPON THE FOLLOWING DOCUMENTS:

- MASTER DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP, NMPE, 8547, DATED JUNE 15, 2009. THE APPROVED 2009 PLAN DEFINES THE EXISTING BASINS OF THE SCHOOL SITE AND ALLOWS FOR FREE DISCHARGE OF DEVELOPED RUNOFF FROM THE SITE TO THE LADERA BASIN 16 SOUTH SUMP, A PUBLIC DETENTION POND. THE PROPOSED WORK LIES WITHIN BASIN 4-B AND THE EAST PORTION OF BASIN 3
- TOPOGRAPHIC SURVEY PREPARED BY HIGH MESA CONSULTING GROUP, NMPS NO. 11184, DATED APRIL 06, 2009. THE SURVEY PROVIDES THE EXISTING CONDITIONS FOR THIS PROJECT.
- CHAPARRAL ELEMENTARY SCHOOL DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP (FORMERLY TOM MANN & ASSOCIATES) DATED MARCH 09, 1983. THE 1983 DRAINAGE PLAN ESTABLISHED THAT FREE DISCHARGE OF DEVELOPED RUNOFF FROM THE SCHOOL INTO THE LADERA BASIN 16 SOUTH SUMP IS PERMISSIBLE. THE 1983 PLAN PROVIDES THE BASIS FOR THE FREE DISCHARGE OF RUNOFF FROM THE SITE TO THE LADERA BASIN 16 SOUTH SUMP.

IV. EXISTING CONDITIONS

THE PROJECT SITE LIES WITHIN BASIN 4-B AND THE EAST PORTION OF BASIN 3 AT THE NORTHEAST CORNER OF THE CAMPUS. THE PROJECT SITE CONSISTS OF THE NORTHEAST CORNER OF THE DEVELOPED PLAYGROUND, INCLUDING BOTH PAVED AND UNPAVED PLAY AREAS. THE UNPAVED AREAS ARE COMPRISED OF BARE SOIL AREA AND NATIVE VEGETATED GROUND COVER. RUNOFF GENERALLY SHEETFLOWS WEST TO EAST ACROSS THE SITE TO FREE DISCHARGE DIRECTLY TO THE LADERA BASIN 16 SOUTH SUMP.

A SMALL AMOUNT OF RUNOFF FROM THE EAST PORTION OF BASIN 3 IS COLLECTED VIA PRIVATE STORM INLET LOCATED IN A SUMP CONDITION. THE INLET CONNECTS TO AN EXISTING PRIVATE STORM DRAIN SYSTEM THAT CONVEYS UPSTREAM FLOWS TO THE LADERA BASIN 16 SOUTH SUMP VIA DISCHARGE THROUGH A HEADWALL.

THERE ARE NO APPARENT OFFSITE FLOWS IMPACTING THE PROJECT SITE. IN ACCORDANCE WITH THE 2009 MDP, RUNOFF FROM ONSITE IMPROVEMENTS WEST OF THE PROJECT SITE SHEETFLOW ONTO BASINS 3 AND 4-B, ACROSS THE EXISTING PLAY AREAS, AND FREE DISCHARGE TO THE LADERA BASIN 16 SOUTH SUMP.

V. DEVELOPED CONDITIONS

THE PROPOSED IMPROVEMENTS CONSIST OF A NEW TRACK AND TURF GRASS FIELD THAT WILL DISPLACE PAVED AND UNPAVED PLAY AREAS IN BASINS 3 AND 4-B. DEVELOPED RUNOFF FROM THE PROPOSED IMPROVEMENTS WILL SHEETFLOW FROM WEST TO EAST ACROSS THE NEW TRACK AND FIELD, FREE DISCHARGING DIRECTLY TO THE LADERA BASIN 16 SOUTH SUMP, CONSISTENT WITH THE 2009 MDP.

AN EXISTING STORM INLET WITHIN BASIN 3 WILL BE REMOVED BECAUSE IT CONFLICTS WITH THE PROPOSED WORK. THE STORM INLET IS NO LONGER NECESSARY AS THE EXISTING SUMP CONDITION WILL BE ELIMINATED. ALL RUNOFF FROM BASIN 3 WILL NOW SHEETFLOW ACROSS THE NEW TRACK AND FIELD TO FREE DISCHARGE TO THE LADERA BASIN 16 SOUTH SUMP. THE GAP IN THE PRIVATE STORM DRAIN CAUSED BY REMOVING THE INLET WILL BE REPLACED WITH SOLID PIPE. THE NEW PIPE WILL MAINTAIN THE CONVEYANCE OF UPSTREAM FLOWS WITHIN THE PRIVATE STORM DRAIN TO THE LADERA BASIN 16 SOUTH SUMP. ALL RUNOFF FROM BASINS 3 AND 4-B WILL CONTINUE TO DRAIN TO THE LADERA BASIN 16 SOUTH SUMP.

VI. GRADING PLAN

THE GRADING PLAN SHOWS 1.) EXISTING GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 2.) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1'-0" INTERVALS, 3.) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, 4.) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5.) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

VII. CALCULATIONS

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

VIII. CONCLUSIONS

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

- THE SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE
- THE FREE DISCHARGE OF DEVELOPED RUNOFF FROM THIS SITE TO THE LADERA BASIN 16 SOUTH SUMP IS CONSISTENT WITH PRIOR SUBMITTALS
- THE PROPOSED IMPROVEMENTS WILL RESULT IN A MINOR DECREASE IN PEAK DISCHARGE AND VOLUME OF RUNOFF GENERATED BY AND DISCHARGING FROM THE SITE DUE TO AN INCREASE IN PVIOUS LAND TREATMENTS.
- THE EXISTING APPROVED DRAINAGE CONCEPT OF FREE DISCHARGE FROM THE SITE TO LADERA BASIN 16 SOUTH SUMP WILL NOT BE ALTERED AND HENCE MAINTAINED.
- THE PROPOSED IMPROVEMENTS WILL NOT ADVERSELY IMPACT DOWNSTREAM PROPERTIES OR CONDITIONS

CALCULATIONS

I. SITE CHARACTERISTICS

- PRECIPITATION ZONE = 1
- $P_{100, 6 \text{ HR}} = P_{360} = 2.20$
- TOTAL PROJECT AREA (A_T) = 106,400 SF (280' X 380' = 106,400 SF)
2.43 AC

D. LAND TREATMENTS

1. EXISTING LAND TREATMENT

| TREATMENT | AREA (SF/AC) | % |
|-----------|---------------|----|
| B | 21,930 / 0.50 | 21 |
| C | 65,780 / 1.51 | 62 |
| D | 18,690 / 0.42 | 17 |

2. DEVELOPED LAND TREATMENT

| TREATMENT | AREA (SF/AC) | % |
|-----------|---------------|----|
| B | 53,940 / 1.24 | 51 |
| C | 31,115 / 0.71 | 29 |
| D | 21,355 / 0.48 | 20 |

II. HYDROLOGY

A. EXISTING CONDITION

1. VOLUME

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.67 * 0.50) + (0.99 * 1.51) + (1.97 * 0.42) / 2.43 = 1.09 \text{ IN}$$
$$V_{100, 6 \text{ HR}} = (E_w / 12) A_T = (1.09 / 12) 2.43 = 0.2207 \text{ AC-FT} = 9,610 \text{ CF}$$

2. PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$
$$Q_p = Q_{100} = (2.03 * 0.50) + (2.87 * 1.51) + (4.37 * 0.42) = 7.2 \text{ CFS}$$

B. DEVELOPED CONDITION

1. VOLUME

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$
$$E_w = (0.67 * 1.24) + (0.99 * 0.71) + (1.97 * 0.48) / 2.43 = 1.02 \text{ IN}$$
$$V_{100, 6 \text{ HR}} = (E_w / 12) A_T = (1.02 / 12) 2.43 = 0.2066 \text{ AC-FT} = 9,000 \text{ CF}$$

2. PEAK DISCHARGE

$$Q_p = Q_{pA} A_A + Q_{pB} A_B + Q_{pC} A_C + Q_{pD} A_D$$
$$Q_p = Q_{100} = (2.03 * 1.24) + (2.87 * 0.71) + (4.37 * 0.48) = 6.7 \text{ CFS}$$

C. COMPARISON

1. VOLUME

$$\Delta V_{100, 6 \text{ HR}} = 9,000 - 9,610 = -610 \text{ CF} \quad (\text{DECREASE})$$

2. PEAK DISCHARGE

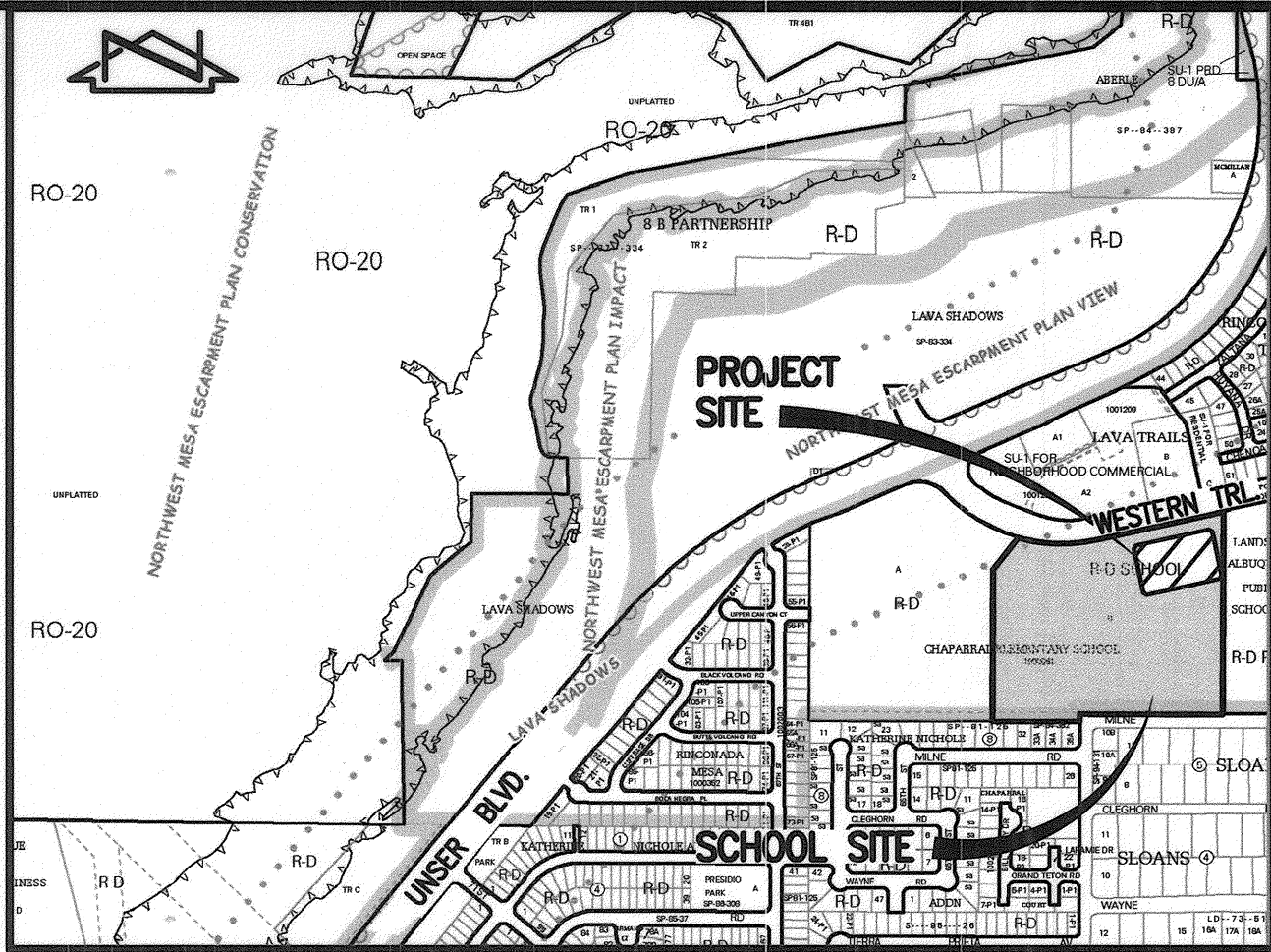
$$\Delta Q_{100} = 6.7 - 7.2 = -0.5 \text{ CFS} \quad (\text{DECREASE})$$

CONSTRUCTION NOTES:

- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM 260-1990 FOR DESIGNATION (LINE-SPOTTING) OF EXISTING PUBLIC UTILITIES AND EXISTING UTILITIES OWNED AND OPERATED BY ALBUQUERQUE PUBLIC SCHOOLS.
- 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.
- 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.
- ALL CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.

EROSION CONTROL MEASURES:

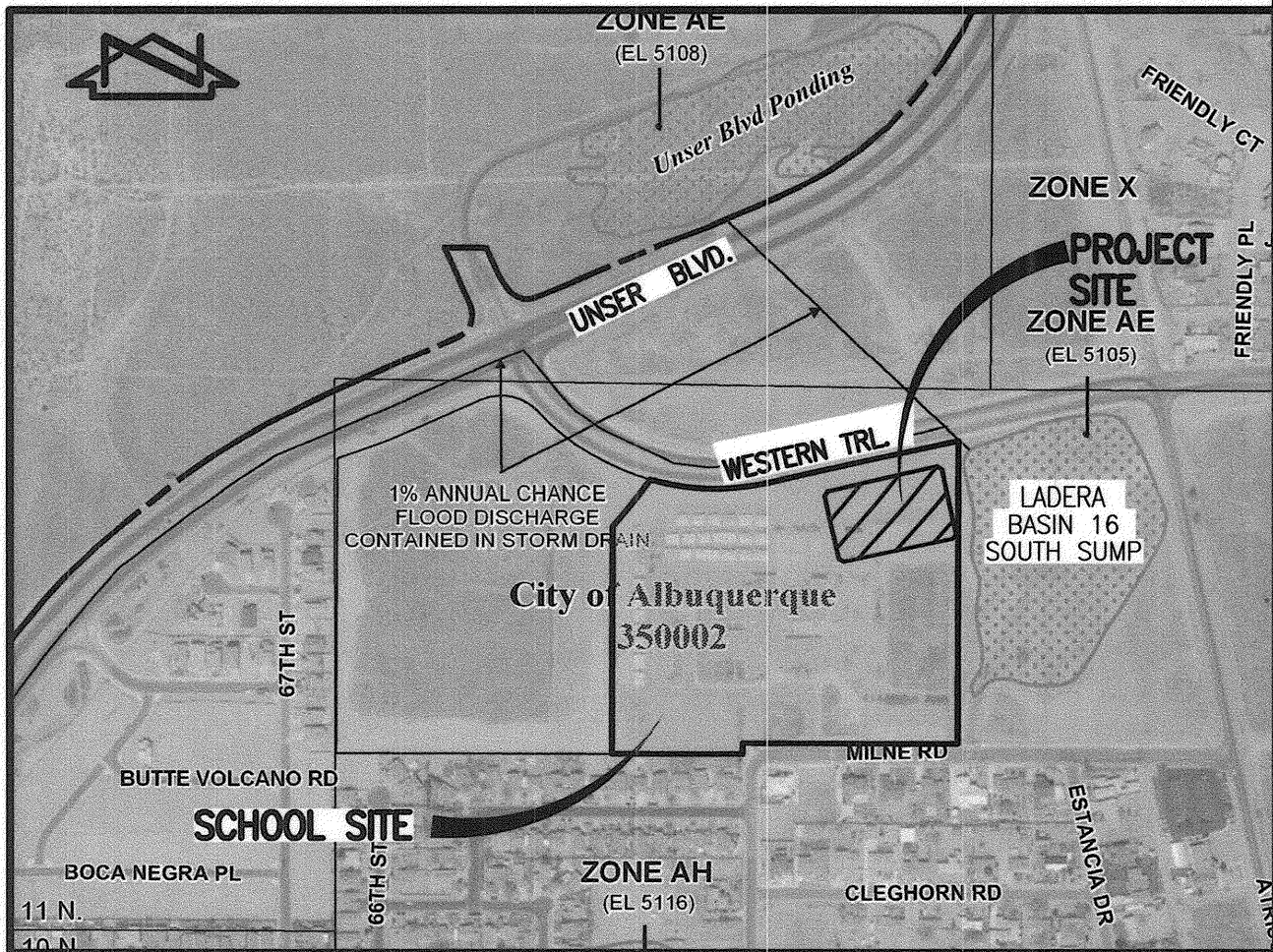
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
- WHEN APPLICABLE, 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.



VICINITY MAP

SCALE: 1" = 750'

F-10



F.I.R.M.

SCALE: 1" = 500'

PANEL 114 OF 825

LEGAL DESCRIPTION

TRACT B, CHAPARRAL ELEMENTARY SCHOOL, ALBUQUERQUE, NEW MEXICO.

BENCHMARKS

PROJECT BENCHMARK

CITY OF ALBUQUERQUE SURVEY CONTROL 1 3/4" METALLIC DISK STAMPED "ACS BM, 15-F11", EPOXIED TO TOP OF CURB 5.20 FEET SOUTH OF THE SSE CURB RETURN OF ATRISCO ROAD N.W. AND WESTERN TRAIL N.W.
ELEVATION = 5110.03 FEET (NAVD 88)

T.B.M. #1

A SPIKE WITH JMA CONTROL CAP STAMPED "NMPS #11184" LOCATED IN MEDIAN OF WESTERN TRAIL NW NORTH OF TRACT B, AS SHOWN ON SHEET 2.
ELEVATION = 5113.74 FEET (NAVD 88)

T.B.M. #2

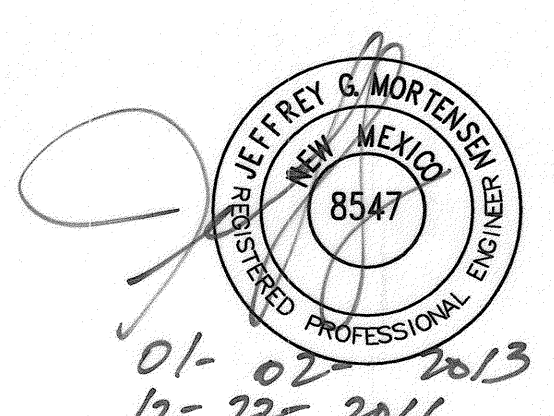
A CHISELED "I" ON TOP OF STORM INLET LOCATED AT THE SE QUADRANT OF INTERSECTION OF UNSER BOULEVARD N.W. AND WESTERN TRAIL N.W., AS SHOWN ON SHEET 2
ELEVATION = 5111.62 FEET (NAVD 88)

T.B.M. #3

A CHISELED "+" LOCATED AT THE SE PROPERTY CORNER OF TRACT B, AS SHOWN ON SHEET 2.
ELEVATION = 5109.70 FEET (NAVD 88)



RECORD DRAWING

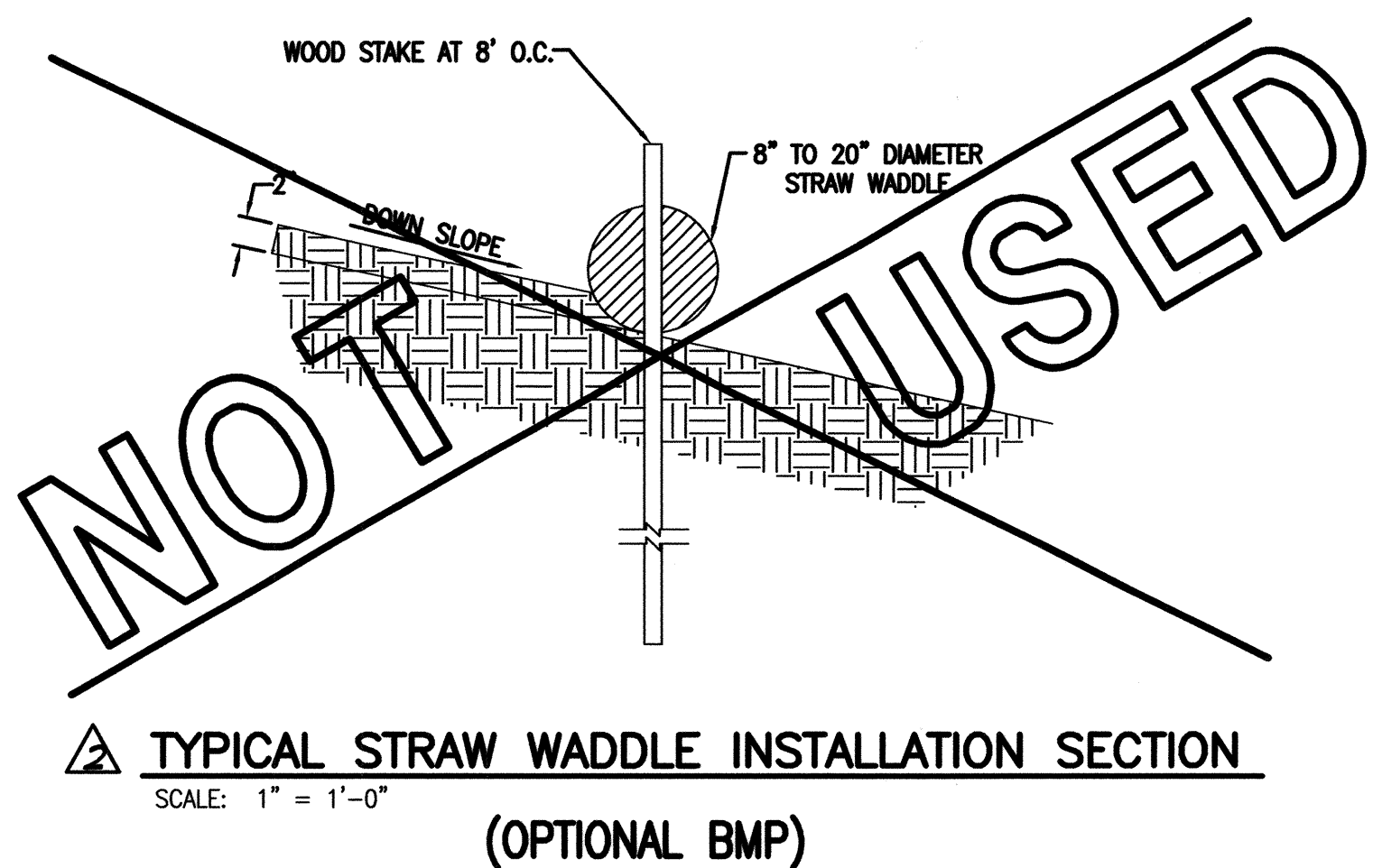
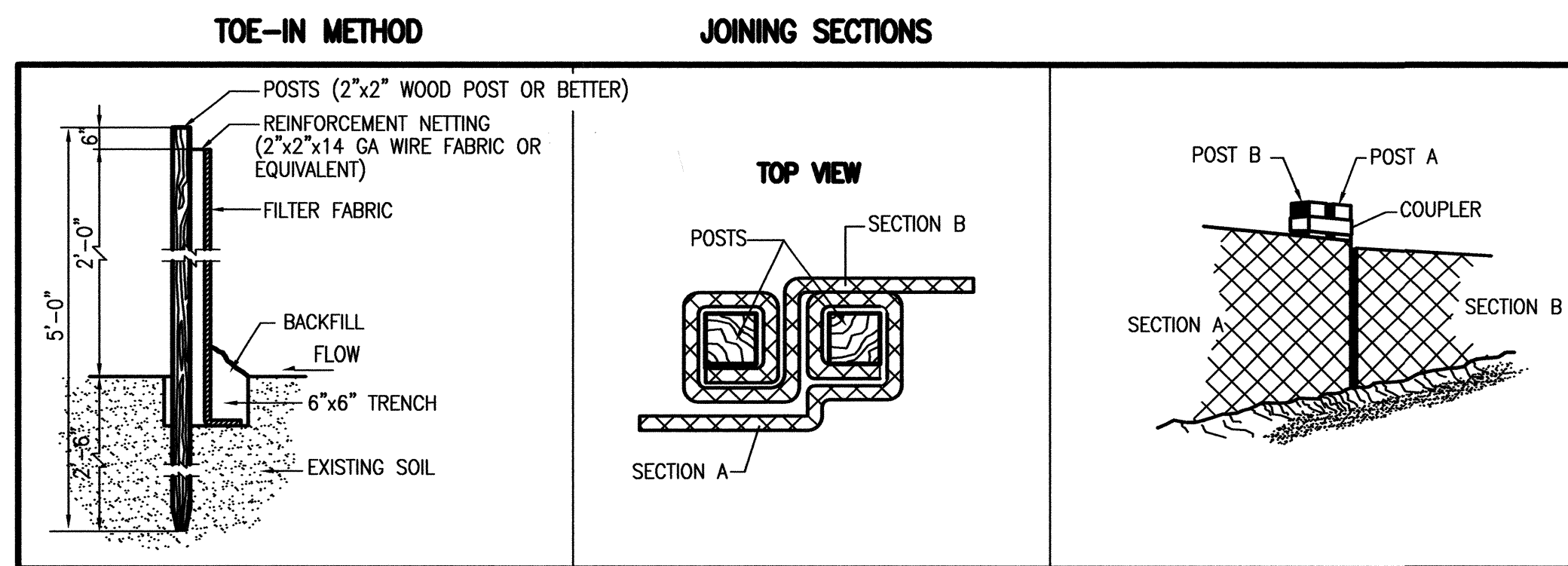
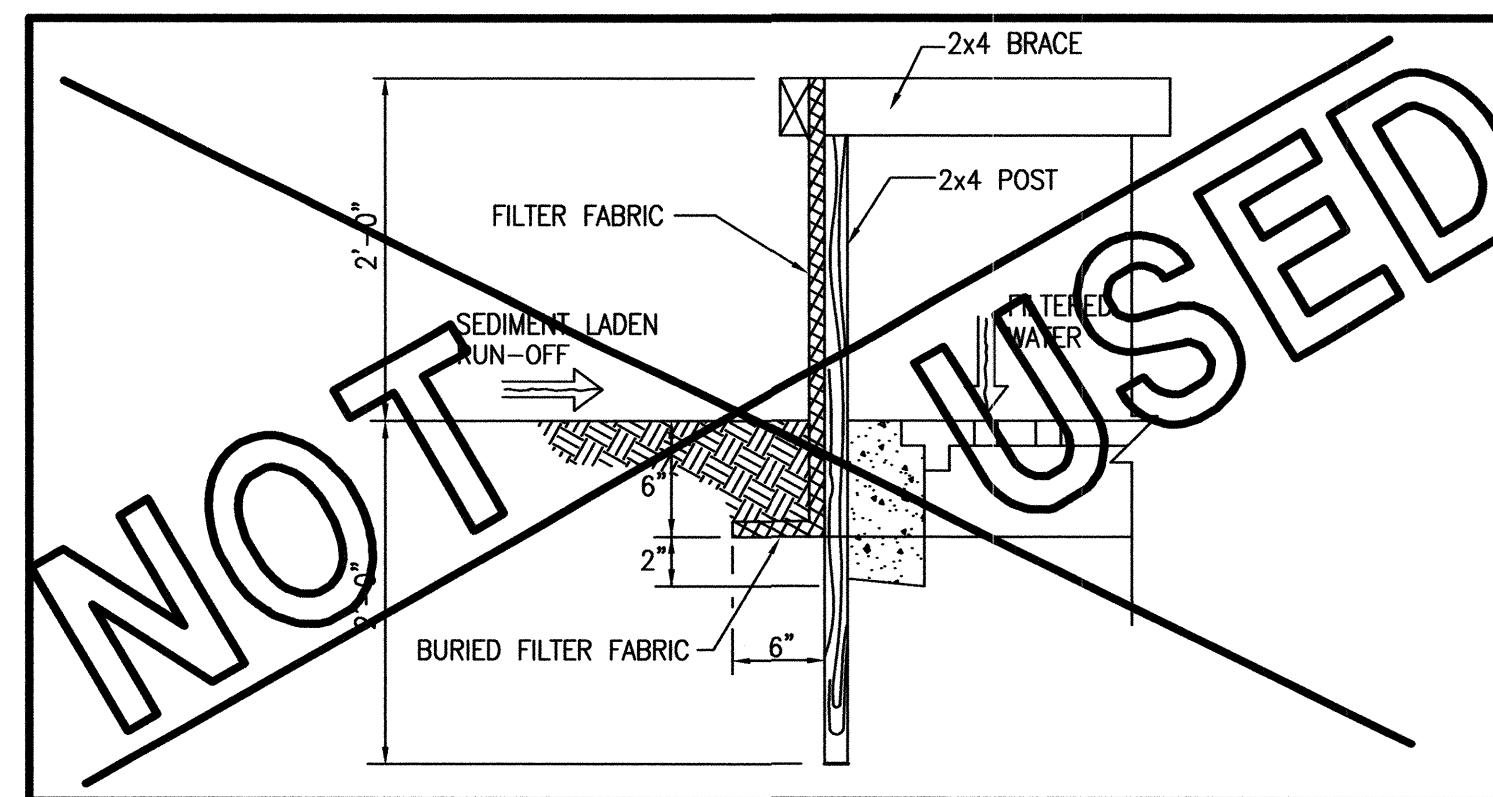
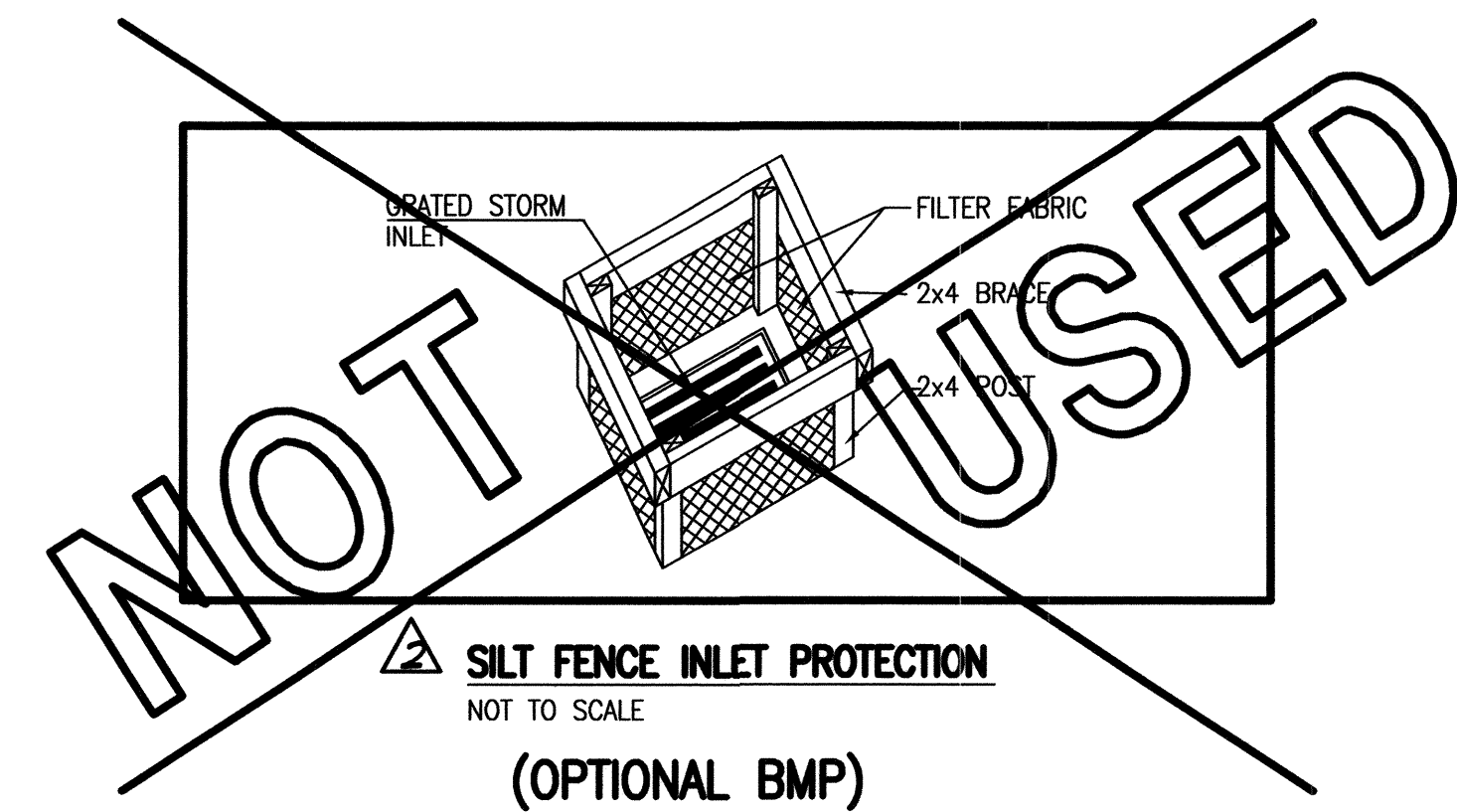
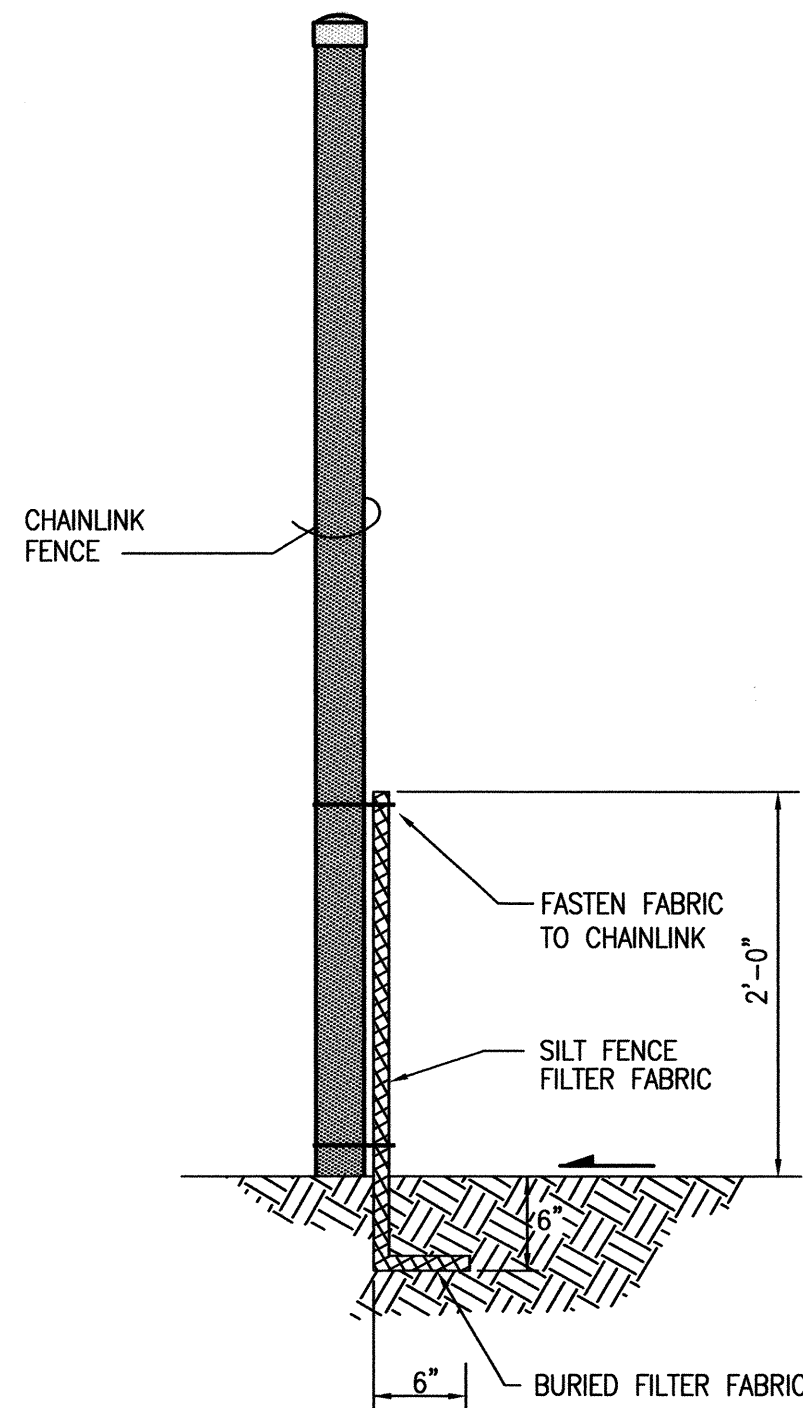
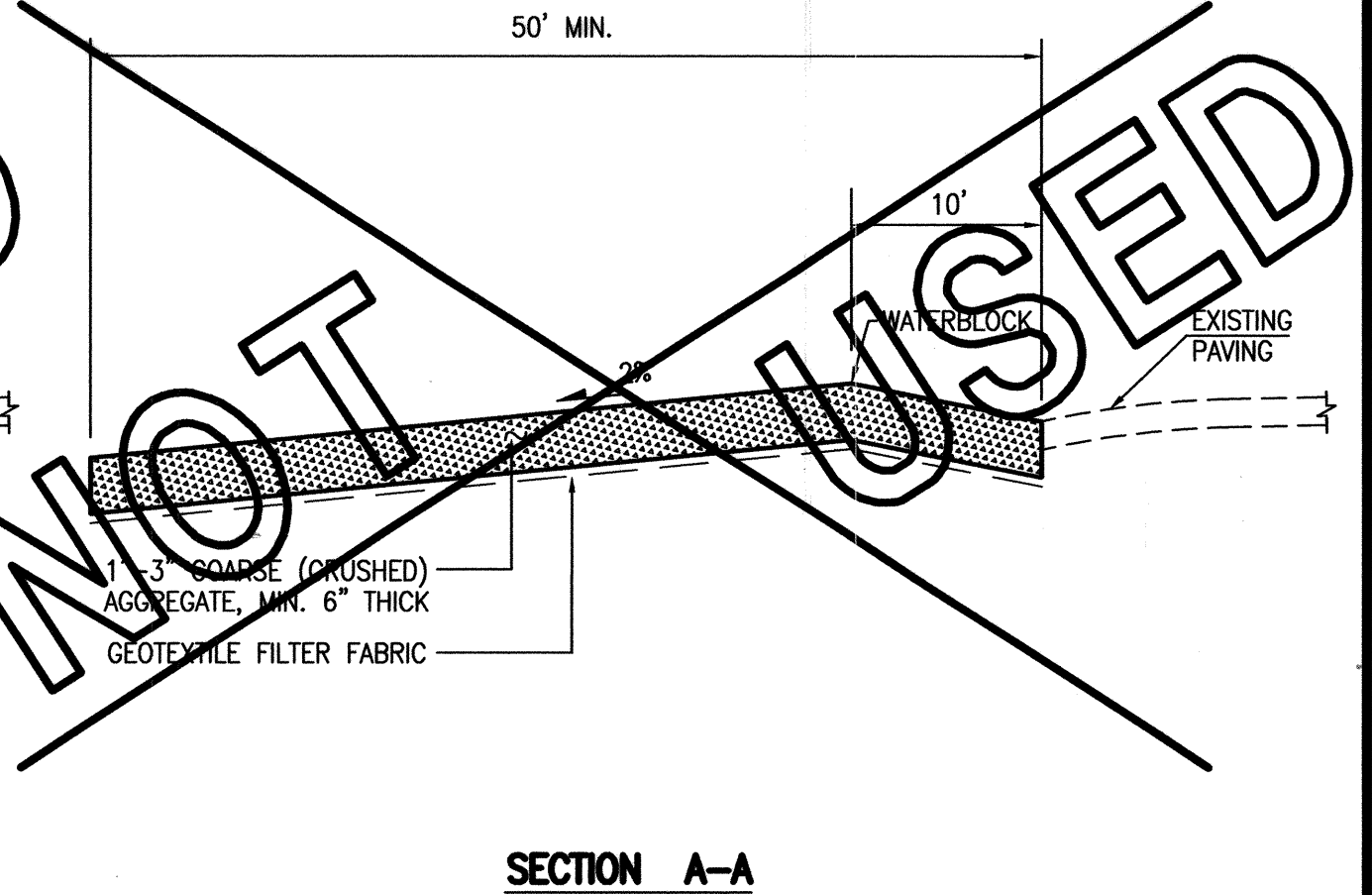
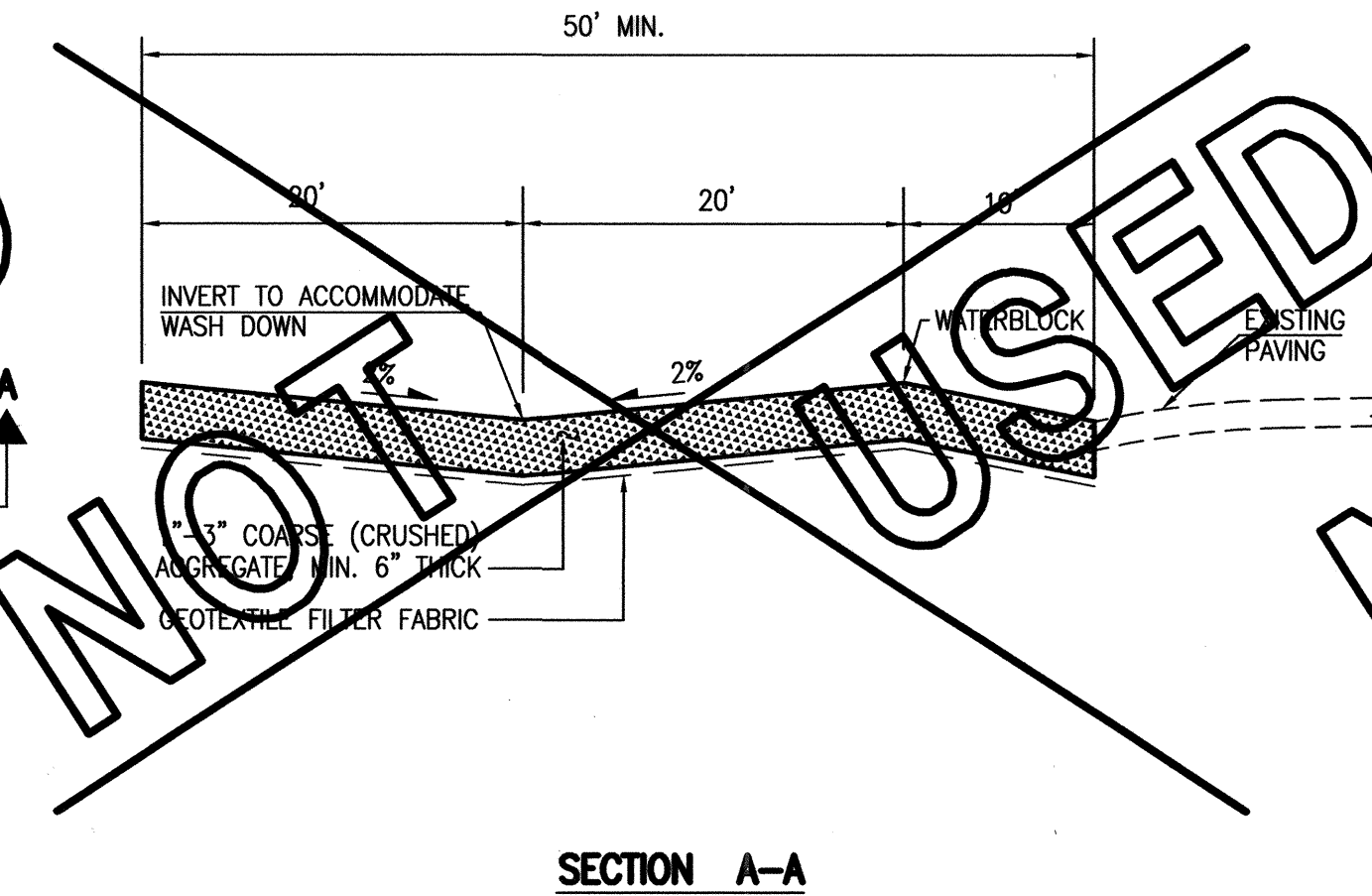
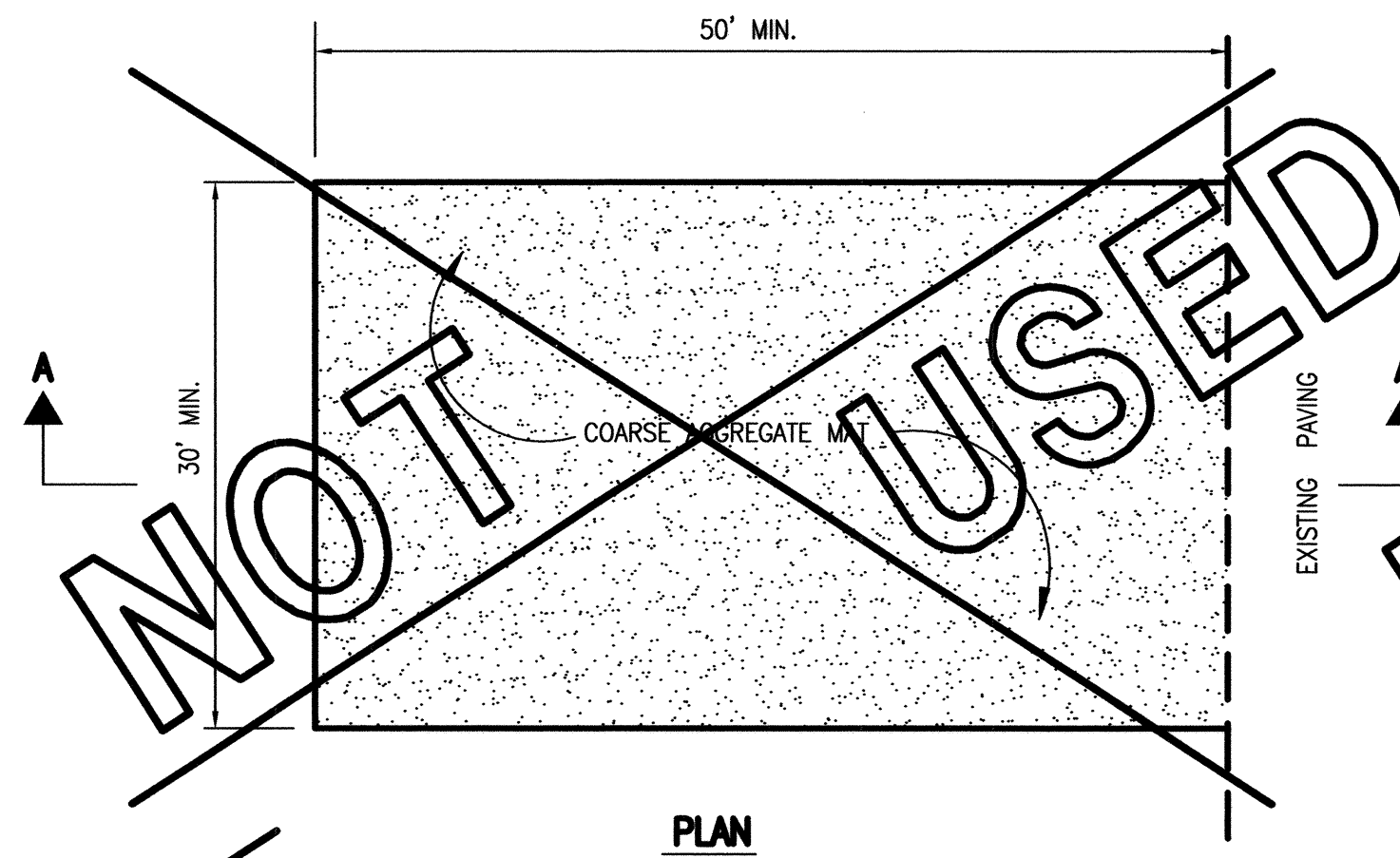
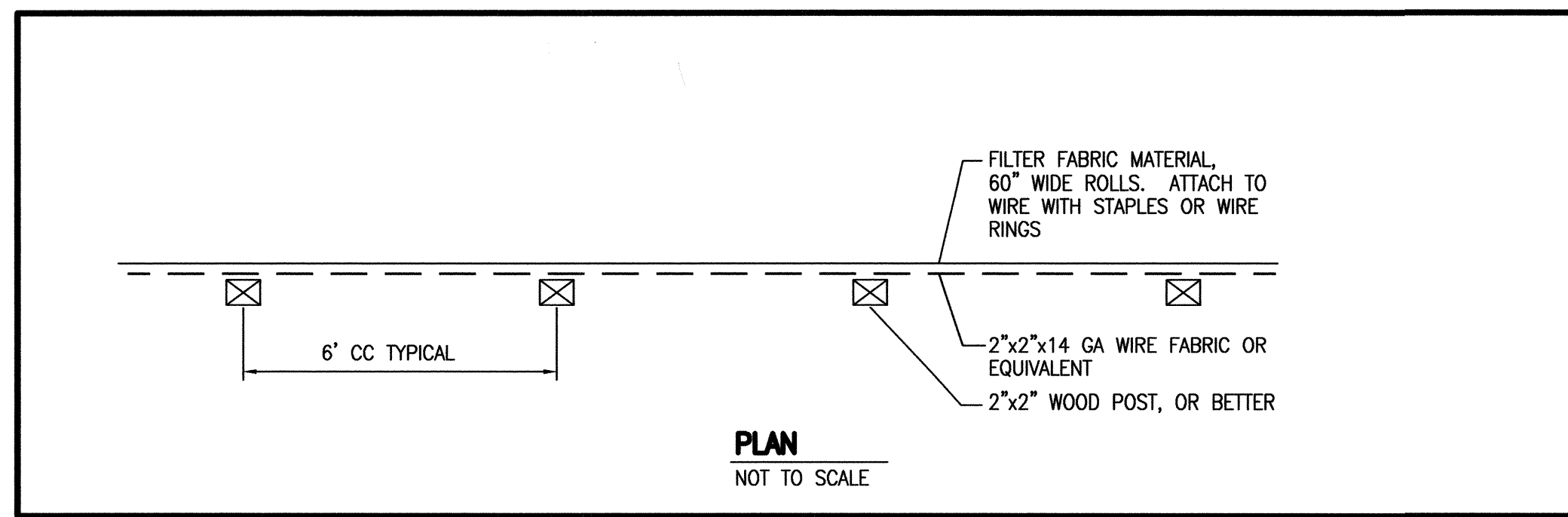


HIGH MESA Consulting Group

4010-B MIDWAY PARK BLVD. NE • ALBUQUERQUE, NEW MEXICO 87109
PHONE: 505.345.4250 • FAX: 505.345.4254 • www.highmesacg.com

DRAINAGE PLAN AND CALCULATIONS
TRACK AND FIELD IMPROVEMENTS
CHAPARRAL ELEMENTARY SCHOOL

| DESIGNED BY | NO. | DATE | BY | REVISIONS | JOB NO. |
|---------------|-----|-------|--------|----------------|------------|
| J.G.M. | 2 | 09/12 | B.E.E. | RECORD DRAWING | 2011.180.9 |
| DRAWN BY | | | | | DATE |
| J.Y.R./E.J.S. | | | | | 11-2011 |
| APPROVED BY | | | | | SHEET |
| J.G.M. | | | | | 7 OF 11 |



NATIVE GRASS 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 |
| FOURWING SALTBUCH (NM REGION) | ATRIPLEX CANESCENS (DE-WINGED) | 1.0 |
| TOTAL RATE: | | 12.0 LBS/ACRE |

- EROSION CONTROL NOTES:**
- THIS PLAN ADDRESSES GENERAL AND SPECIFIC MEASURES FOR CONSTRUCTION PHASE EROSION AND DUST CONTROL. REFER TO THE GRADING AND DRAINAGE PLAN PREPARED BY HIGH MESA CONSULTING GROUP FOR GRADING NOTES AND INFORMATION.
 - THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
 - 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.
 - CONCRETE TRUCKS SHALL BE SENT BACK TO PLANT FOR WASHING. THE WASHING OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ON THIS SITE.
 - THE CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL PROMPTLY REMOVE SEDIMENT ACCUMULATION FROM SILT FENCES WITHIN 48 HOURS OF A RAINFALL EVENT.
 - THE CONTRACTOR SHALL PICK UP LITTER AND CONSTRUCTION DEBRIS ON A DAILY BASIS.
 - OFFSITE MATERIAL STORAGE AREAS USED BY THIS PROJECT ARE CONSIDERED PART OF THE PROJECT AND ARE SUBJECT TO THE REQUIREMENTS OF THIS EROSION CONTROL PLAN.
 - THE CONTRACTOR SHALL IMPLEMENT ON-SITE STRUCTURAL EROSION CONTROL PRACTICES AS REQUIRED TO COMPLY WITH THE EROSION CONTROL PLAN. THESE PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: SILT FENCES, EARTHEN DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM RETAINING SYSTEM, GABIONS AND TEMPORARY OR PERMANENT SEDIMENT BASINS.
 - THE CONTRACTOR SHALL MINIMIZE OFFSITE VEHICLE TRACKING OF SEDIMENT AND DUST GENERATION.
 - 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.
 - REFER TO STORM WATER POLLUTION PREVENTION PLAN FOR PROJECT SPECIFIC PHASING AND INFORMATION. THIS PROJECT SHALL BE IMPLEMENTED IN PHASES TO MINIMIZE THE EXTENT AND DURATION OF SURFACE DISTURBANCE.
 - FOR EXAMPLES OF ADDITIONAL BMP'S, REFER TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM MANUAL - STORM WATER MANAGEMENT GUIDELINES FOR CONSTRUCTION AND INDUSTRIAL ACTIVITIES, NOVEMBER 2002.
 - THE OWNER HAS PREPARED THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND SIGNING THE SWPPP AS WELL AS PROVIDING, MAINTAINING AND INSPECTING THE BMP'S ALONG WITH ANY REVISIONS THERETO.

RECORD DRAWING



| DESIGNED BY | NO. | DATE | BY | REVISIONS | JOB NO. |
|-------------|-----|-------|---------------|----------------|------------|
| J.G.M. | 1 | 09/12 | B.E.E. | RECORD DRAWING | 2011.180.9 |
| DRAWN BY | | | J.Y.R./E.J.S. | | DATE |
| APPROVED BY | | | J.G.M. | | 12-2011 |
| | | | | | SHEET |
| | | | | | 9 OF 11 |