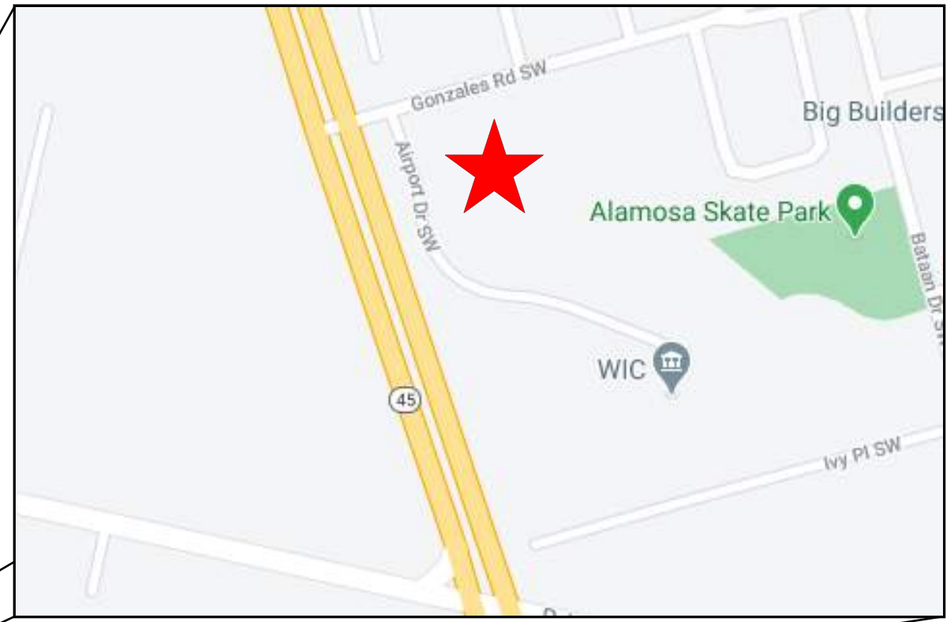
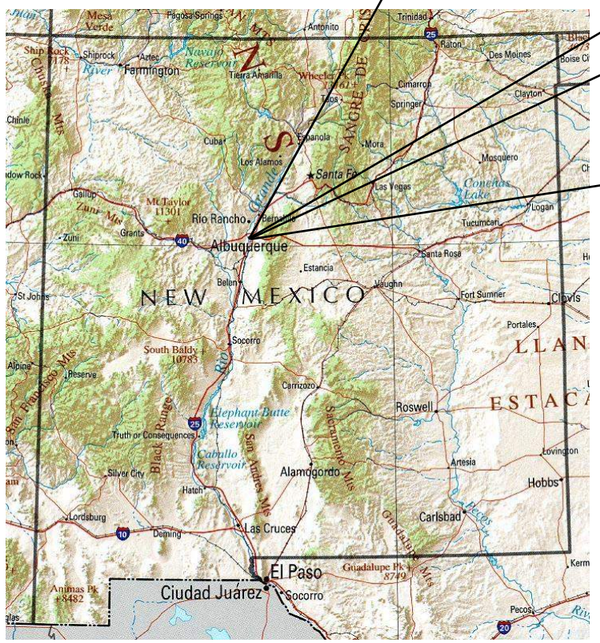
MARK ARMIJO ACADEMY MASS GRADING & DRAINAGE

TEMPORARY SEDIMENT AND EROSION CONTROL DRAWINGS

ALBUQUERQUE, BERNALILLO COUNTY, NM

DRAWING INDEX





CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ
Kelley Vincent Fetter
No. 0682

KELLEY VINCENT FETTER
NEW MEXICO
18450
REGISTERED PROFESSIONAL ENGINEER
4/202

E2RC
SWPPP
Stormwater
Erosion Control
Reclamation
Seeding

www.e2rc.com | 505.867.4040

CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ®

#	REVISION ITEM	DATE

JD&K CONSTRUCTION, LLC
MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
ALBUQUERQUE, NM

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

SHEET:
COVER

GENERAL NOTES

THE NPDES COMPLIANCE SWPPP DRAIWING AND ASSOCITAED DOCUMENTATION IS AND SHALL BE CONSIDERED A LIVING DOCUMENT ALLOWING FOR MODIFICATIONS AS SITE CONDITIONS CHANGE OR DICTATE.

ALL SITE FEATURES (EXISTING/PROPOSED GRADES, EXISTING CONSTRUCTION, FUTURE CONSTRUCTION, ETC.) SHOWN IS PER INFORMATION FROM OTHERS.

MINIMUM REQUIREMENTS TO FURTHER DEVELOP OR MODIFY THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DRAWING SHALL BE BASED ON THE CURRENT EDITION OF THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT (NMSHTD), NPDES LAW AND CITY OF ALBUQUERQUE ORDINANCE § 14-5-2-11.

ALL OPERATORS SHALL SUBMIT A NOTICE OF INTENT (NOI). THE NOI SHALL BE ACTIVE AND POSTED ON THE EPA'S WEBSITE PRIOR TO COMMENCING EARTH DISTURBING ACTIVITIES.

LOCATE TEMPORARY WASHOUT, ANCHORED TOILETS, CONSTRUCTION ENTRANCE AND PARKING, STAGING, REFUELING, TRASH CONTAINMENT AREA TO MINIMIZE SITE DISTURBANCE DURING CONSTRUCTION ACTIVITY.

THE OPERATOR IS REQUIRED TO REGULARLY PERFORM STREET SWEEPING AND CLEAN - UP MEASURES IN THE EVENT OF SEDIMENT TRACK - OUT.

THE FOLLOWING ARE STANDARD EROSION CONTROL REQUIREMENTS PER THE CITY OF ALBUQUERQUE STORMWATER QUALITY DEPARTMENT:

ALL EROSION AND SEDIMENT CONTROL (ESC) WORK ON THESE PLANS, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON SHALL BE PERMITTED, CONSTRUCTED, INSPECTED, AND MAINTAINED IN ACCORDANCE WITH:

THE CITY ORDINANCE § 14-5-2-11, THE ESC ORDINANCE;
THE EPA'S 2017 CONSTRUCTION GENERAL PERMIT (CGP); AND
THE CITY OF ALBUQUERUQ CONSTRUCTION BMP MANUAL

ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMPS SUCH AS SEDIMENT TRAPS, SEDIMENT BASINS, AND DIVERSION BERMS SHALL BE COMPLETED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION OR EARTHWORK. SELF-INSPECTION IS REQUIRED AFTER INSTALLATION OF THE BMPS AND PRIOR TO BEGINNING CONSTRUCTION.

SELF INSPECTIONS: AT A MINIMUM A ROUTINE COMPLIANCE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVEN OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY OF ALBUQUERQUE. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE.

BMPS SHALL BE INSPECTED AND MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED IN ACCORDANCE WITH THE FINAL STABILIZATION CRITERIA (CGP 2.2.14.B). GENERALLY, ALL DISTURBED AREAS, OTHER THAN STRUCTURES, MUST HAVE UNIFORM PERENNIAL VEGETATION THAT PROVIDES 70 PERCENT OR MORE OF THE COVER PROVIDED BY NATIVE VEGETATION OR SEED THE DISTURBED AREA AND PROVIDE NON-VEGETATIVE MULCH THAT PROVIDES COVER FOR AT LEAST THREE YEARS WITHOUT ACTIVE MAINTENANCE. FINAL STABILIZATION MUST BE DOCUMENTED ON SELF-INSPECTION REPORTS AND APPROVED BY THE CITY OF ALBUQUERQUE PRIOR TO REMOVAL OF BMPS AND DISCONTINUATION OF INSPECTIONS.

PROJECT DETAILS

NPDES ID: NMR1003JZ, NMR1003KW

ADDRESS: 99999 GONZALES ROAD SW, ALBUQUERQUE, NM 87121

GPS COORDINATE: 35.072747, -106.711726

DISTURBED ACREAGE: 3.3

RECEIVING WATERS: YERBA DRIVE POND

IMPAIRED/TIERED WATERS: N/A

ENDANGERED SPECIES: RIO GRANDE SILVERY MINNOW IS 2.07 MILES EAST OF THE PROJECT

HISTORIC PRESERVATION: NOT APPLICABLE

FINAL STABLIZATION TYPE: NM APWA 1012 SEEDING (HYDROMULCH SUBSTITUTED FOR STRAW)

REGULATING AUTHORITY: ENVIRONMENTAL PROTECTION AGENCY (EPA)

REGULATING PERMIT: 2017 CONSTRUCTION GENERAL PERMIT

PROJECT OWNER:
MARK ARMIJO ACADEMY
6900 GONZALES ROAD SW
ALBUQUERQUE, NM 87121

OWNER CONTACT:
MONICA AGUILAR
EXECUTIVE DIRECTOR
MONICA@MARKARMIJO.COM

GENERAL CONTRACTOR (GC):
JD&K CONSTRUCTION, LLC
1911 COTTRELL LANE SW
ALBUQUERQUE, NM 87105

GC CONTACT:
JERRY VELASQUEZ
PROJECT MANAGER
JDANDKNETCOM@YAHOO.COM

KELLEY VINCENT FETTER
NEW MEXICO
13450
REGISTERED PROFESSIONAL ENGINEER
4/2022

E2RC
SWPPP
Stormwater
Erosion Control
Reclamation
Seeding

www.e2rc.com | 505.867.4040

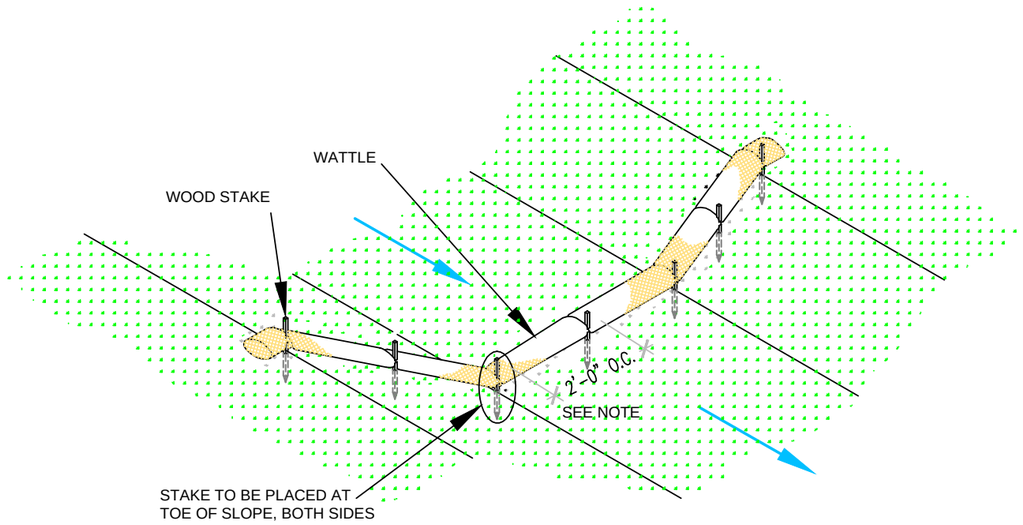
CERTIFIED PROFESSIONAL CPSWQ® IN STORM WATER QUALITY®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
SWPPP NOTES

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

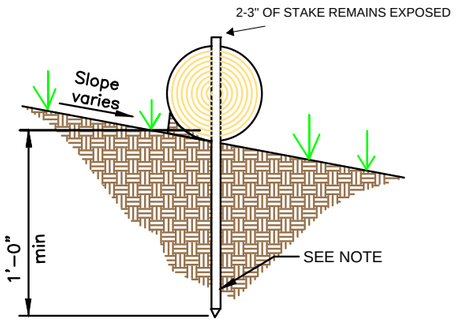
SHEET:
GENERAL NOTES

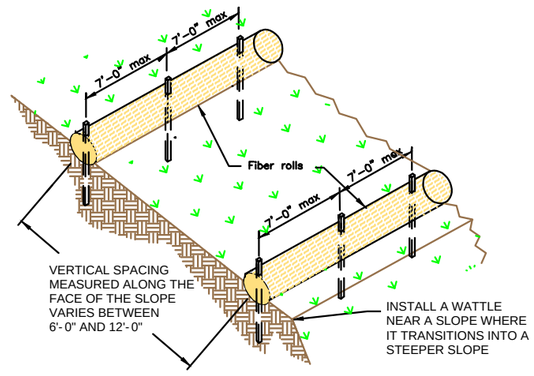


WATTLE
WITHOUT BLANKET

NTS

2' FOR DRAWING ONLY. 8' MAX
SPACING BETWEEN STAKES





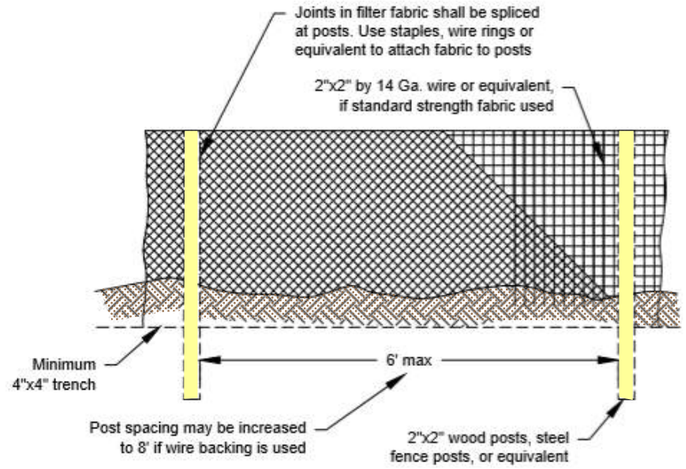
WATTLE

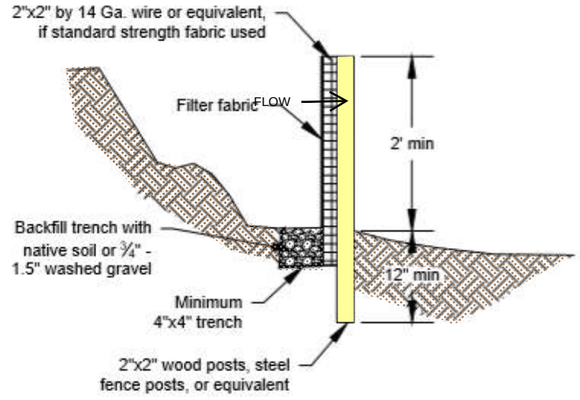
NTS

SECURE WATTLE WITH 18-24" STAKES EVERY 3-4' AND STAKES ON EACH END OF THE WATTLE.

DRIVE STAKES PERPENDICULAR TO THE SLOPE FACE AND THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2-3" OF THE STAKE ABOVE THE WATTLE.

VERTICAL SPACING DEPENDENT ON SLOPE GRADIENT.





SILT FENCE

NTS

SILT FENCE IS TO BE PLACED PERPENDICULAR TO THE SLOPE OF THE SITE.

DIG A 4"X4" MINIMUM TRENCH UPSTREAM OF THE SILT FENCE. DRIVE STAKES AT LEAST 1' DEEP ON THE DOWNSTREAM EDGE.

RUN THE SILT FENCE ON THE INSIDE OF THE STAKES AND SECURE WITH HOG RINGS, WIRE, ZIP TIES OR STAPLES.

IF ONE CONTINUOUS PIECE OF FABRIC IS NOT AVAILABLE, OVERLAP THE FABRIC AT LEAST THE WIDTH OF THE STAKE AND SECURE WITH HOG RINGS, WIRE, ZIP TIES OR STAPLES.

COVER TRENCH WITH BACKFILLED COMPACTED SOIL, GRAVEL OR ROCK.

KELLEY VINCENT FETTER
NEW MEXICO
13450
REGISTERED PROFESSIONAL ENGINEER
1/4/2021

E2RC
SWPPP
Stormwater
Erosion Control
Reclamation
Seeding

www.e2rc.com | 505.867.4040

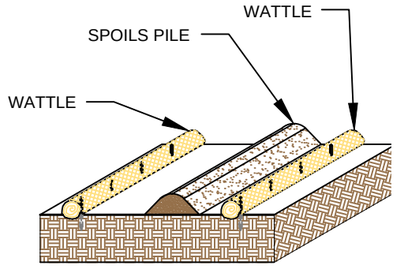
CERTIFIED PROFESSIONAL CPSWQ® IN STORM WATER QUALITY®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
BMP DETAILS

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

SHEET:
3



SPOILS PILE PROTECTION

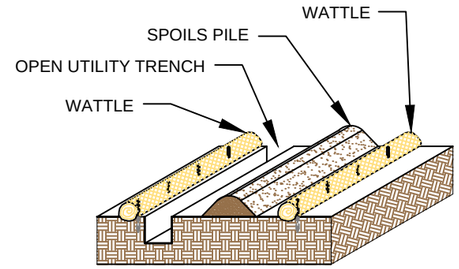
NTS

PLACE WATTLES IN FUTURE LOCATIONS OF SPOILS STOCKPILES PRIOR TO CONSTRUCTION.

PLACE WATTLES CONTINOUSLY ALONG THE EXTENT OF THE SPOILS STOCKPILE.

ANCHOR THE WATTLES USING A MINIMUM OF 1" X 2" X 18" WOODEN STAKES OR SAND BAGS.

ONCE/IF THE SPOILS STOCKPILE IS DEPLETED OR MOVED, REMOVE THE WATTLES AND REUSE THEM IN THE NEXT LOCATION.



OPEN TRENCH SPOILS PILE PROTECTION

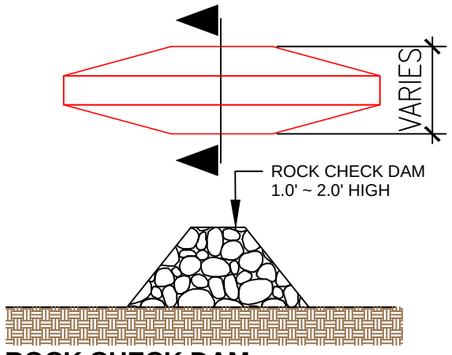
NTS

PLACE WATTLES CONTINUOUSLY ALONG THE EXTENT OF THE UTILITY TRENCH AND FUTURE LOCATION OF THE SPOILS STOCKPILE PRIOR TO EXCAVATION OF THE UTILITY.

WATTLES ARE TO REMAIN ANCHORED IN PLACE UNTIL THE UTILITY TRENCH IS BACKFILLED.

ANCHOR THE WATTLES USING A MINIMUM 1"X2"X18" WOODEN STAKE OR SANDBAGS.

ONCE THE TRANCH IS BACKFILLED, WATTLES MAY BE REMOVED AND REUSED IN THE NEXT SECTION OF EXCAVATION PROVIDED THEY ARE IN GOOD CONDITION.



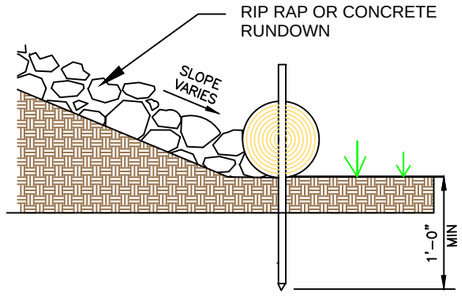
ROCK CHECK DAM

NTS

PLACE CHECK DAMS AT REGULARLY SPACED INTERVALS ALONG SWALE OR DRAINAGE DITCH.

HEIGHTS SHOULD ALLOW FOR POOLS TO DEVELOP UPSTREAM OF EACH CHECK DAM.

IF MULTIPLE DAMS ARE USED, THE TOP OF THE LOWER DAM SHOULD BE THE SAME HEIGHT AS THE ELEVATION AS THE TOE OF THE UPPER DAM.



RUNDOWN DETAIL

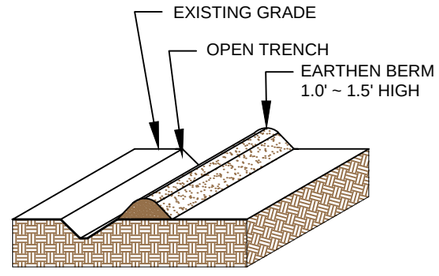
NTS

8' MAX SPACING BETWEEN STAKES

PLACE WATTLES AT THE TOE OF SLOPE. THE RIP RAP OR CONCRETE RUNDOWN SHOULD ABUT THE WATTLE.

ANCHOR THE WATTLES WITH WOODEN STAKES. DRIVE THE STAKE A MINIMUM OF 12" INTO THE MIDDLE OF THE WATTLE AND SOIL UNDERNEATH.

2-3" OF THE WOODEN STAKE SHOULD BE PRESENT ABOVE THE WATTLE.



EARTHEN BERM

NTS

CONSTRUCT AN EARTHEN BERM DOWN HILL OF THE AREA TO BE CONTROLLED.

BERM SHOULD BE A MINIMUM 12" HIGH AND 12" WIDE.

USE EQUIPMENT TO COMPACT EARTHEN BERM BY ROLLING OVER BERM TO MINIMIZE SPREAD.

E2RC
SWPPP
Stormwater
Erosion Control
Reclamation
Seeding
www.e2rc.com | 505.867.4040

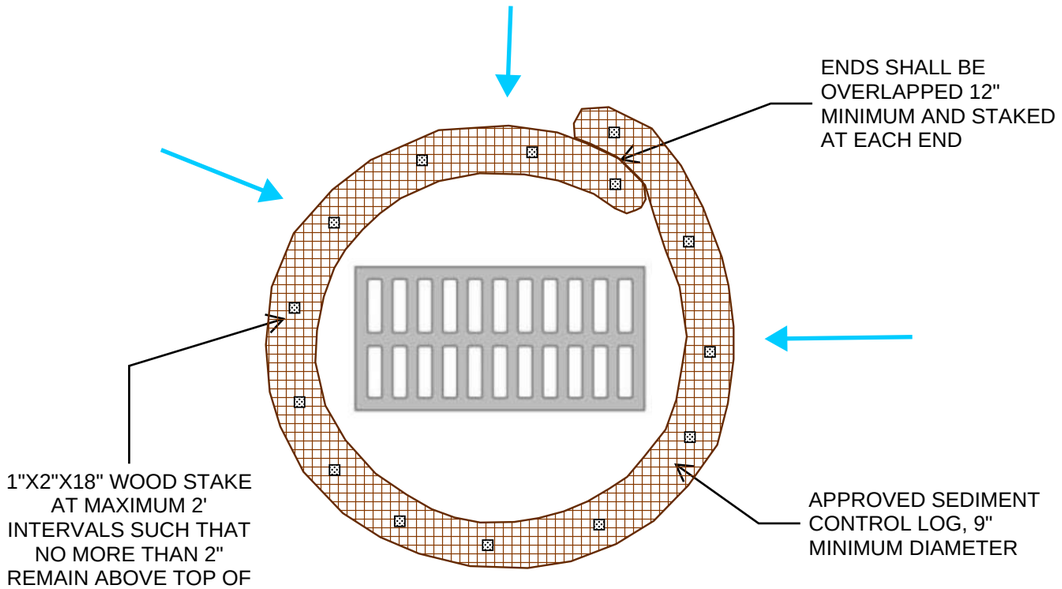
CERTIFIED PROFESSIONAL IN STORM WATER QUALITY CPSWQ®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
BMP DETAILS

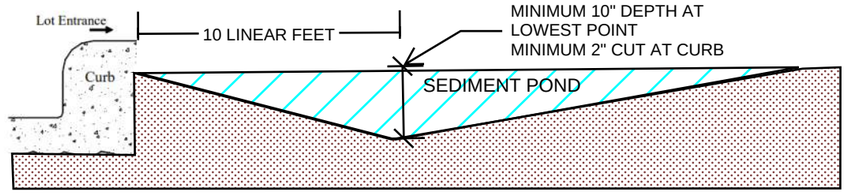
DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

SHEET:
4



AREA INLET PROTECTION

NTS



CUTBACK CURB

NTS

CUTBACK CURBS SHOULD TYPICALLY BE INSTALLED AT THE SITE ENTRANCE WHEN ACCESS IS NEEDED.

SOIL SHOULD BE CUT BACK FROM BEHIND THE CURB, SIDEWALK OR ROADWAY A MINIMUM 2" DOWN FROM THE TOP OF THE HARDSCAPE.

BRING THE SOIL BACK >10 FEET FT FROM THE HARDSCAPE TO FORM THE SEDIMENT TRAP.

THE LOWEST POINT OF THE SEDIMENT POND SHALL BE AT LEAST 10 INCHES.

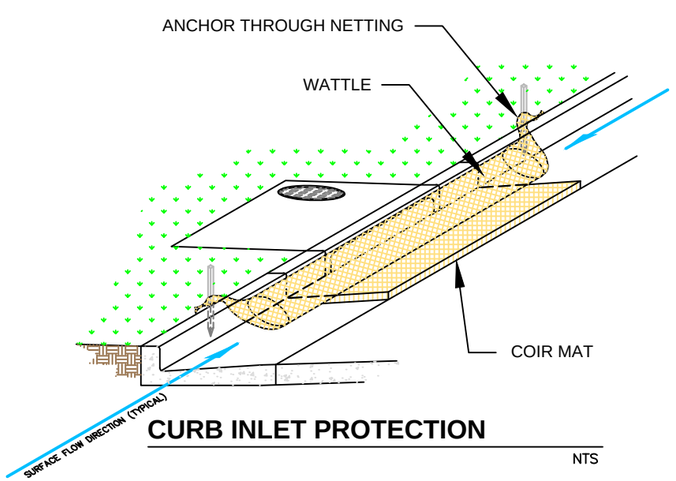
IF THE HOUSE PAD HAS BEEN STABILIZED, THE DEPTH OF THE SEDIMENT POND MAY BE REDUCED TO 4 INCHES.

THE DEPTH AND LENGTH OF THE EXCAVATED AREA CAN BE INCREASED IF MORE STORAGE IS NEEDED.

INSPECT BMPs PRIOR TO FORCAST PRCIPITATION, DAILY DURING PRECIPITATION EVENTS, AFTER PRECIPITATION EVENTS AND THROUGH THE LIFE OF THE PROJECT.

MAINTAIN PROPER DEPTH AND LENGTH OF THE CUTBACK FOR THE DURATION OF THE PROJECT.

KEEP CUTBACK AREA CLEAN AND FREE OF TRASH AND DEBRIS.



CURB INLET PROTECTION

NTS

THE MAT SHOULD EXTEND A MINIMUM OF 1" PAST ALL EDGES OF THE INLET. PLACE MAT AGAINST THE CURB INLET.

PLACE WATTLES ON TOP OF THE MAT CLOSEST TO THE INLET OPENING AND CURB.

THE MAXIMUM HEIGHT OF THE PROTECTIVE BARRIER MUST BE LOWER THAN THE TOP OF THE CURB OPENING. THIS ALLOWS OVERFLOW INTO THE INLET DURING LARGE PRECIPITATION EVENTS.

ANCHOR THE BARRIER NETTING OVER THE CURB WITH WOODEN STAKES IF ABLE. IF UNABLE TO DO THAT ANCHOR THE WATTLE WITH SAND BAGS ON EACH END.

E2RC
SWPPP
Stormwater
Erosion Control
Reclamation
Seeding
www.e2rc.com | 505.867.4040

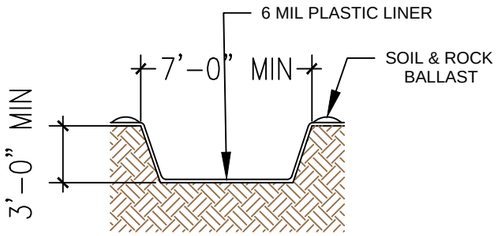
CERTIFIED PROFESSIONAL CPSWQ® IN STORM WATER QUALITY®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
BMP DETAILS

DESIGNED BY:
K. FETTER , P.E.
DRAWN BY:
S. FETTER

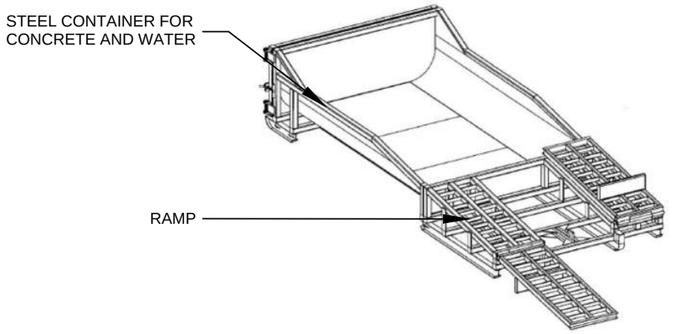
SHEET:
5



CONCRETE WASHOUT MUST BE MAINTAINED REGULARLY AND CLEANED OUT AS NEEDED

CONCRETE WASHOUT

NTS



MODULAR CONCRETE WASHOUT

NTS

LOCATE WASHOUT AT LEAST 50 FT FROM STORMDRAINS, OPEN DITCHES, WATER BODIES OR PROJECT PERIMETER. A SIGN SHOULD BE INSTALLED ADJACENTLY TO THE WASHOUT.

WASH OUT WASTE INTO THE WASHOUT WHERE THE CONCRETE CAN SET, BE BROKEN UP AND DISPOSED OF CORRECTLY.

DO NOT CREATE RUNOFF BY DRAINING WATER TO BERMED AREA OR BY COLLECTING THE WATER WASTE WHEN WASHING CONCRETE TO REMOVE PARTICLES AND EXPOSE THE AGGREGATE.

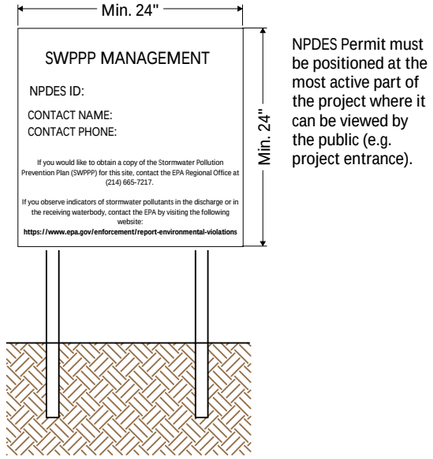
DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET, STORMDRAIN SYSTEMS OR OFF THE PROJECT SITE.

PORTABLE TOILET STAKING

NTS

PLACE THE PORTABLE TOILET ON LEVEL GROUND. A FLAT PAVED SURFACE IS BEST IF AVAILABLE.

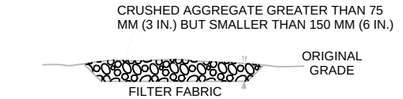
DRIVE THE STAKES OVER THE SKIDS OF THE PROTABLE TOILET, AROUND ALL SIDES.



NPDES Permit must be positioned at the most active part of the project where it can be viewed by the public (e.g. project entrance).

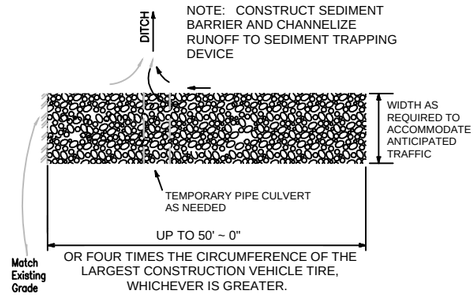
NPDES POSTING BOARD

NTS



SECTION B–B

NTS



STABILIZED CONSTRUCTION ENTRANCE

NTS

CONSTRUCT THE ENTRANCE ON A LEVEL SURFACE WHERE AN UNPAVED ROAD MEETS A PAVED ROAD. TYPICALLY AT PROJECTS ACCESS AREA.

GRADE THE ENTRANCE TOWARD THE CONSTRUCTION SITE TO PREVENT RUNOFF.

INSPECT THE ENTRANCE TO KEEP TRASH AND DEBRIS OUT OF THE WAY.

AFTER PRECIPTATION EVENTS, INSPECT THE ENTRANCE FOR ANY REPAIRS THAT MAY BE NEEDED.

DRAWING KEY

- POST - CONSTRUCTION FLOW
- PRE - CONSTRUCTION FLOW
- SILT FENCE
- WATTLE OR SOCK
- SPOILS PILE PROTECTION
- EARTHEN BERM
- INLET PROTECTION
- NATURAL BUFFER
- PARKING AND STAGING AREA
- CONCRETE WASHOUT
- STABILIZED CONSTRUCTION ENTRANCE
- VEGETATIVE STABILIZATION
- ENDANGERED/THREATENED SPECIES
- C — CHEMICAL STORAGE
- CHECK DAM
- TEMP TOILET
- LOCATION FOR PUBLIC NOTIFICATION OF NPDES
- PROJECT BOUNDRY
- DISTURBED AREA
- PROJECT AND DISTURBED BOUNDRY (–B –B –B –)
- CULVERT BLANKET
- CUTBACK CURB
- PARKING AND STAGING AREA, CHEMICAL STORAGE AND CONCRETE WASHOUT IN APPROXIMATE LOCATION. THESE AREAS ARE TO REMAIN TOGETHER IF MOVED. AREAS CAN BE MOVED AFTER START OF CONSTRUCTION.

E2RC

SWPPP
Stormwater
Erosion Control
Reclamation
Seeding

www.e2rc.com | 505.867.4040

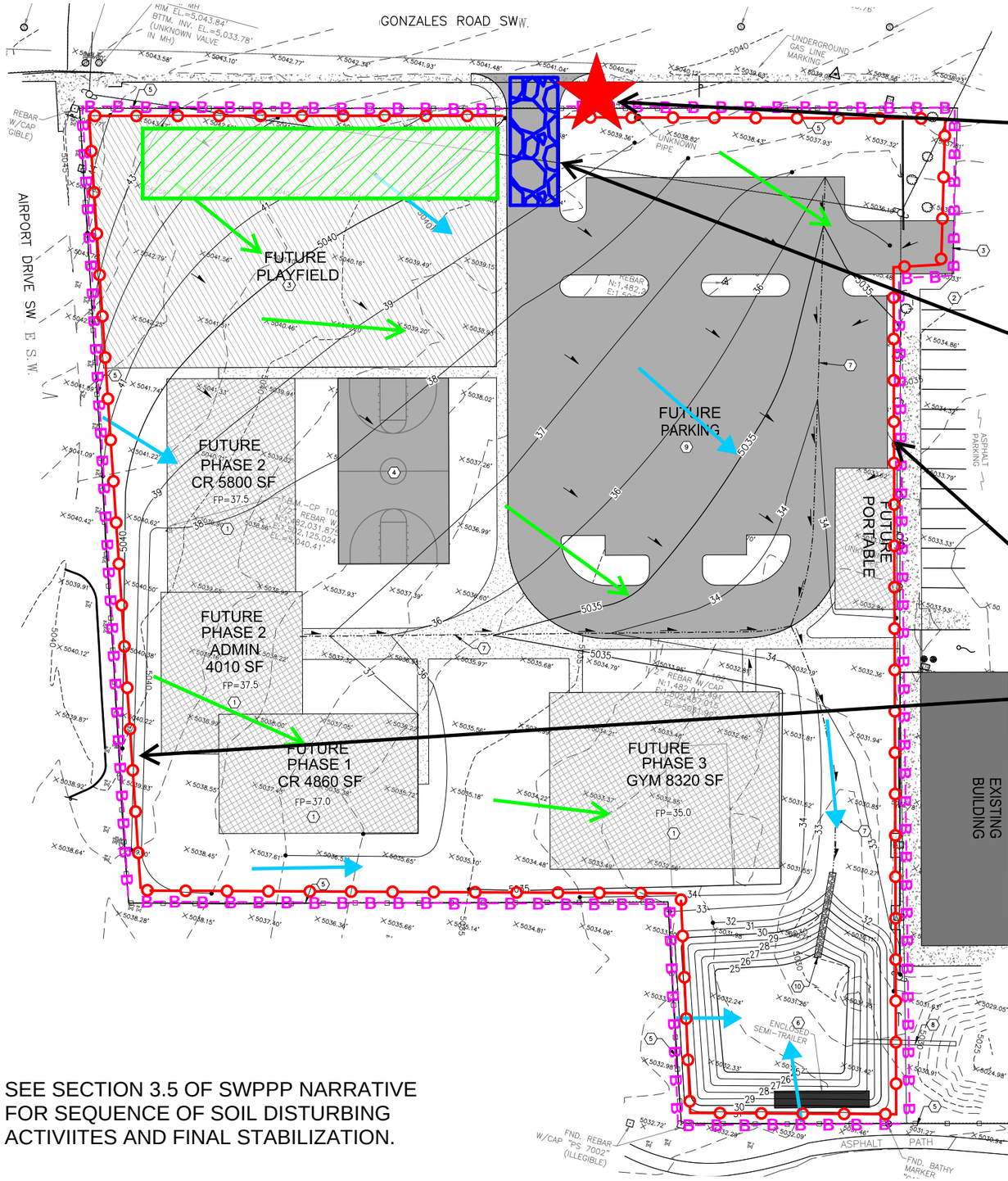
CPSWQ® CERTIFIED PROFESSIONAL IN STORM WATER QUALITY®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
BMP DETAILS

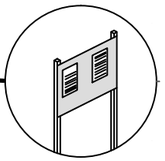
DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

SHEET:
6



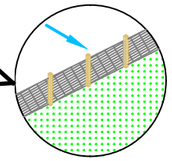
NPDES PERMITTING

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE
1/27/21	
FINAL STABILIZATION	



STABILIZED CONSTRUCTION ENTRANCE

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE
1/27/21	
FINAL STABILIZATION	



SILT FENCE

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE
1/27/21	
FINAL STABILIZATION	

SEE SECTION 3.5 OF SWPPP NARRATIVE FOR SEQUENCE OF SOIL DISTURBING ACTIVIITES AND FINAL STABILIZATION.

N

0' 75' 150'

KELLEY VINCENT FETTER NEW MEXICO 13450 REGISTERED PROFESSIONAL ENGINEER 4/2022

E2RC

SWPPP
Stormwater
Erosion Control
Reclamation
Seeding

www.e2rc.com | 505.867.4040

CERTIFIED PROFESSIONAL IN STORM WATER QUALITY CPSWQ®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
TESCP

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

SHEET:
7

Final Stabilization: Seeding per the NM APWA 1012 specification using West Side seed mix and substituting hydromulch for straw at 2,500 lb/acre.

FINAL STABILIZATION

N

0' 75' 150'

KEELEY VINCENT FETTER
NEW MEXICO
13450
REGISTERED PROFESSIONAL ENGINEER
4/2022

SWPPP
Stormwater
Erosion Control
Reclamation
Seeding

www.e2rc.com | 505.867.4040

CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ®

#	REVISION ITEM	DATE

MARK ARMIJO ACADEMY
MASS GRADING & DRAINAGE
FINAL STABILIZATION

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
S. FETTER

SHEET:
8