

- EROSION NOTES

TPS

TPS TEMPORARY PARKING AND STORAGE

---

LIMITS OF DISTURBANCE

SB

SB TEMPORARY SEDIMENT BASIN
- EROSION DETAILS

CE

CE TEMPORARY STONE CONSTRUCTION EXIT

SF

SF TEMPORARY SILT FENCE

SS

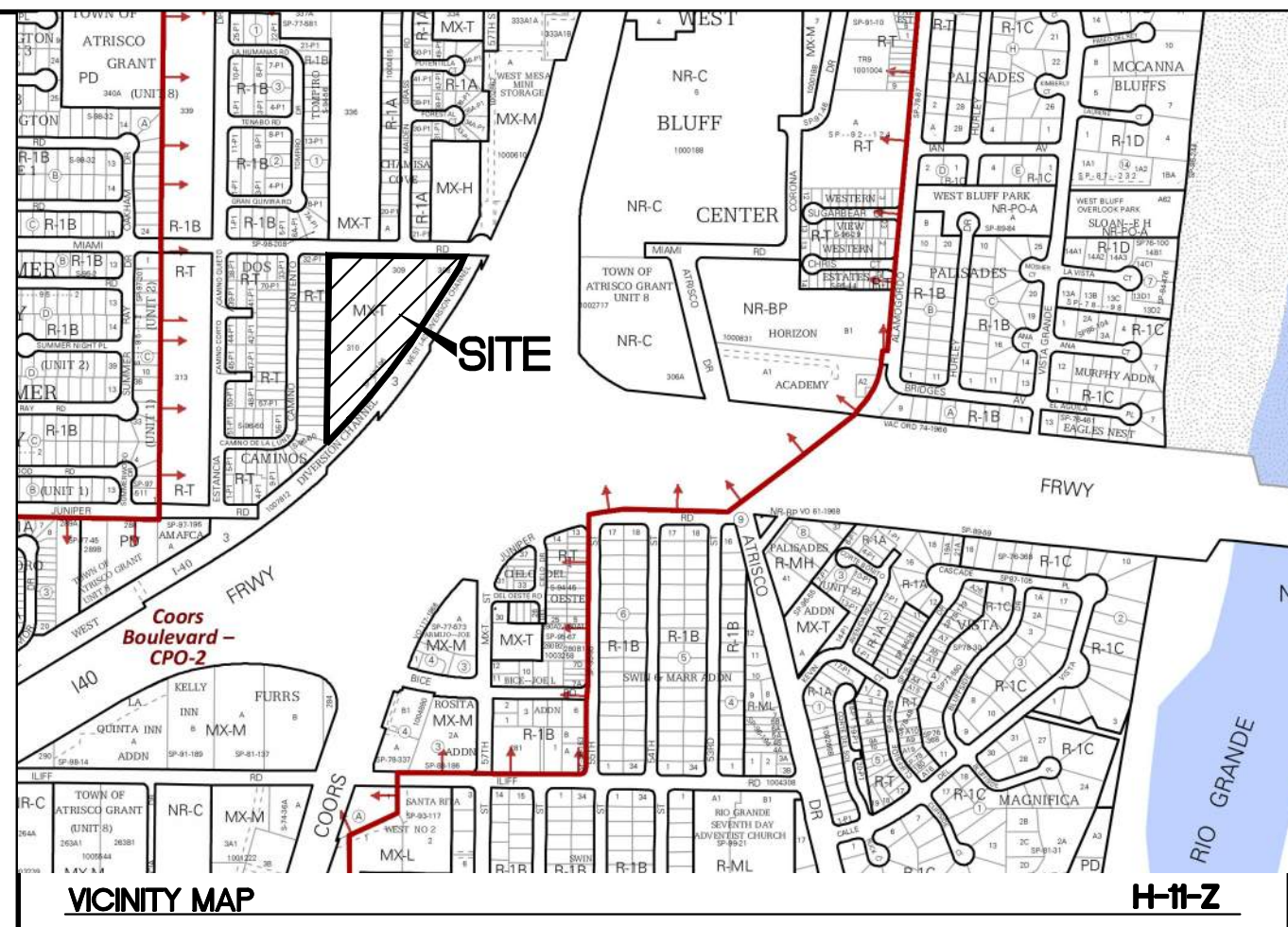
SS SWPPP SIGN

SF

SF SILT FENCE

CE

CE CONSTRUCTION EXIT



- SEQUENCE OF CONSTRUCTION:
1. INSTALL STABILIZED CONSTRUCTION ENTRANCES
  2. POST PUBLIC NOTICE PER DETAILS
  3. INSTALL DOWN GRADIENT PERIMETER CONTROLS
  4. THE ENTIRE SITE WILL BE GRADED TO DRAIN TO THE PROPOSED PONDS AT ALL TIMES DURING CONSTRUCTION. INSTALL SEDIMENT BASINS PRIOR TO CLEARING REST OF THE SITE.
  5. NOTIFY SWPPP COMPLIANCE INSPECTOR OF COMPLETION OF ABOVE.
  6. BEGIN SOIL DISTURBING ACTIVITIES
  7. PROVIDE TEMPORARY STABILIZATION OF DISTURBED AREAS OR STOCKPILES
  8. INSTALL UNDERGROUND UTILITIES
  9. FINISH GRADING THE SITE
  10. PAVE ROADS AND SIDEWALKS THAT ARE NOT DEFERRED TO HOME BUILDER.
  11. REMOVE DESILTING POND/SAND PROVIDE INLET PROTECTION TO NEWLY CONSTRUCTED INLETS.
  12. INSTALL LANDSCAPING ON SITE.
  13. STABILIZE LOTS WHERE HOME CONSTRUCTION WON'T BEGIN FOR 2 WEEKS OR MORE.
  14. PLACE WADDLES ALONG FRONT OF LOTS WHERE HOME CONSTRUCTION WON'T BEGIN FOR 2 WEEKS OR MORE.
  15. FINAL STABILIZATION OF LOTS TO BE RESPONSIBILITY OF HOME BUILDER AND IS NOT APART OF THIS PLAN.
  16. NOTIFY SWPPP COMPLIANCE INSPECTOR OF SUBSTANTIAL SITE STABILIZATION AND APPROVAL. FILE NOTICE OF TERMINATION (NOT).

GROUND COVER (PRE-CONSTRUCTION)

THE UNDISTURBED AND PRE-CONSTRUCTION GROUND COVER CONSISTS OF UNCOMPACTED SOIL WITH NATIVE GRASSES, WEEDS, AND SHRUBS WITH MINIMAL TO NO DISTURBANCES TO GRADING.

STORMWATER TEAM MEMBERS

BMP INSTALLATION, MAINTENANCE AND CORRECTIVE ACTIONS

PHONE \_\_\_\_\_  
EMAIL \_\_\_\_\_

INSPECTIONS NAME \_\_\_\_\_  
PHONE \_\_\_\_\_  
EMAIL \_\_\_\_\_

LIST OF OPERATORS

OPERATOR 1 NAME \_\_\_\_\_  
PHONE \_\_\_\_\_  
EMAIL \_\_\_\_\_

OPERATOR 2 NAME \_\_\_\_\_  
PHONE \_\_\_\_\_  
EMAIL \_\_\_\_\_

OPERATOR 3 NAME \_\_\_\_\_  
PHONE \_\_\_\_\_  
EMAIL \_\_\_\_\_

SWPPP PURPOSE

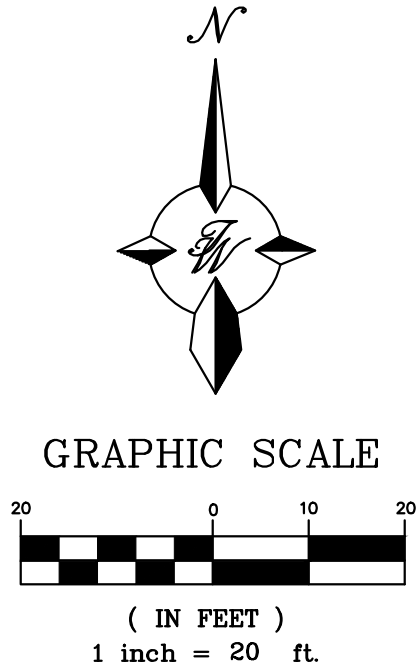
THE PURPOSE OF THIS SWPPP IS TO APPLY SWPPP CONTROLS THAT ARE REQUIRED DURING DEVELOPMENT OF SITE AND PUBLIC RIGHT OF WAYS.

EROSION CONTROL PLAN TO BE UPDATED WITH INDIVIDUAL LOT BMP'S PRIOR TO THW ISSUANCE OF A BULDIN PERMIT FOR HOUSE CONSTRUCTION. HOME BUILDER IS RESPONSIBLE FOR MAINTAINING BMP'S THROUGH CONSTRUCTION

NEW LOT OWNERS MUST FILE THEIR NOTICE OF INTENT (NOI) AT LEAST 14 DAYS PRIOR TO TAKING CONTROL OF ANY LOTS TRANSFERRED TO THEM BEFORE DEVELOPMENT AND STABILIZATION IS COMPLETE

CAUTION

ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS. PRIOR TO STARTING THE WORK, ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.



|   |  |  |
|---|--|--|
| <div>ENGINEER'S SEAL</div> <div>RONALD R. BOHANNAN<br/>NEW MEXICO<br/>PROFESSIONAL ENGINEER<br/>7868</div> <div>05/08/24</div> <div>RONALD R. BOHANNAN<br/>P.E. #7868</div> | <div>PLAYA DEL SUR<br/>COORS AND I40</div> <div>EROSION CONTROL<br/>PLAN</div>   | <div>DRAWN BY<br/>AS</div> <div>DATE<br/>05/08/24</div> <div>DRAWING<br/>2023076-SWPPP</div> |
|   | <div>Tierra West, LLC</div> <div>5571 MIDWAY PARK PL NE<br/>ALBUQUERQUE, NEW MEXICO 87109<br/>(505) 858-3100<br/>www.tierrawestllc.com</div> | <div>SHEET #<br/>SW-1</div> <div>JOB #<br/>2023024</div>                                     |

NATURE AND EXTENT OF CONSTRUCTION ACTIVITIES:

NATURE OF CONSTRUCTION ACTIVITIES: MASS ROUGH GRADING OF THE SITE, INSTALLATION OF UTILITIES (WATER AND SANITARY SEWER) AND PAVING OF INTERNAL DRIVE AISLES, PARKING AND SIDEWALKS, BUILDING CONSTRUCTION AND LANDSCAPING AND OFFSITE IMPROVEMENTS.

PROPERTY SIZE: 5.47 ACRES

DISTURBED AREA SIZE: 5.47 ACRES

MAXIMUM DISTURBED AREA SIZE: 5.47 ACRES

PROJECT SCHEDULE: SCHEDULE LENGTHS ARE TBD, SEE SEQUENCE OF CONSTRUCTION THIS SHEET SW-1 FOR SCHEDULE TASKS DESCRIPTION.

CONSTRUCTION PHASE: THE FIRST PHASE OF CONSTRUCTION, CONSISTS OF BUILDING CONSTRUCTION, TRENCHING AND INSTALLING UTILITIES FOR SERVICE AND PAVING OF PARKING AND DRIVEWAYS TO THE PROPERTY.

BMP MAINTENANCE:

ALL MEASURES STATED IN THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR UNTIL FINAL STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT THE END OF THE WORKDAY BY A QUALIFIED MEMBER OF THE SWPPP COMPLIANCE TEAM.

THE OPERATOR WITH CONTROL OF THE SITES DAILY ACTIVITIES IS RESPONSIBLE TO MAINTAIN, CLEAN AND REPAIR EROSION CONTROLS IN ACCORDANCE WITH THE FOLLOWING:



1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED, IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION. SEDIMENT SHALL BE REMOVED TO INSURE PROPER FLOWS; INLET PROTECTION TYPES MAY NEED TO BE MODIFIED DURING THE CONSTRUCTION PROGRESS.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND OF VEGETATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RE-SEEDED AS NEEDED.
3. SILT FENCES, WADDLES OR OTHER CONTROLS SHALL BE REPLACED OR REPAIRED TO PROPER FUNCTIONING CONDITION, IF DAMAGED. SEDIMENT AND SOIL SHALL BE REMOVED WHEN REACHES ONE-HALF THE HEIGHT OF THE CONTROL.
4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING, EXTENDING OR OTHER MODIFICATIONS TO THE CONSTRUCTION EXITS AS CONDITIONS DEMAND. SITE TRAFFIC SHOULD BE LIMITED TO THE CONTROLLED EXITS ONLY.
5. SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
6. REFERENCE THE SWPPP BOOK FOR ALL EROSION CONTROL MAINTENANCE PROCEDURES AND FREQUENCIES. CONSULT THE SWPPP PREPARER WITH ANY QUESTIONS REGARDING THIS SWPPP AND ITS REQUIREMENTS.

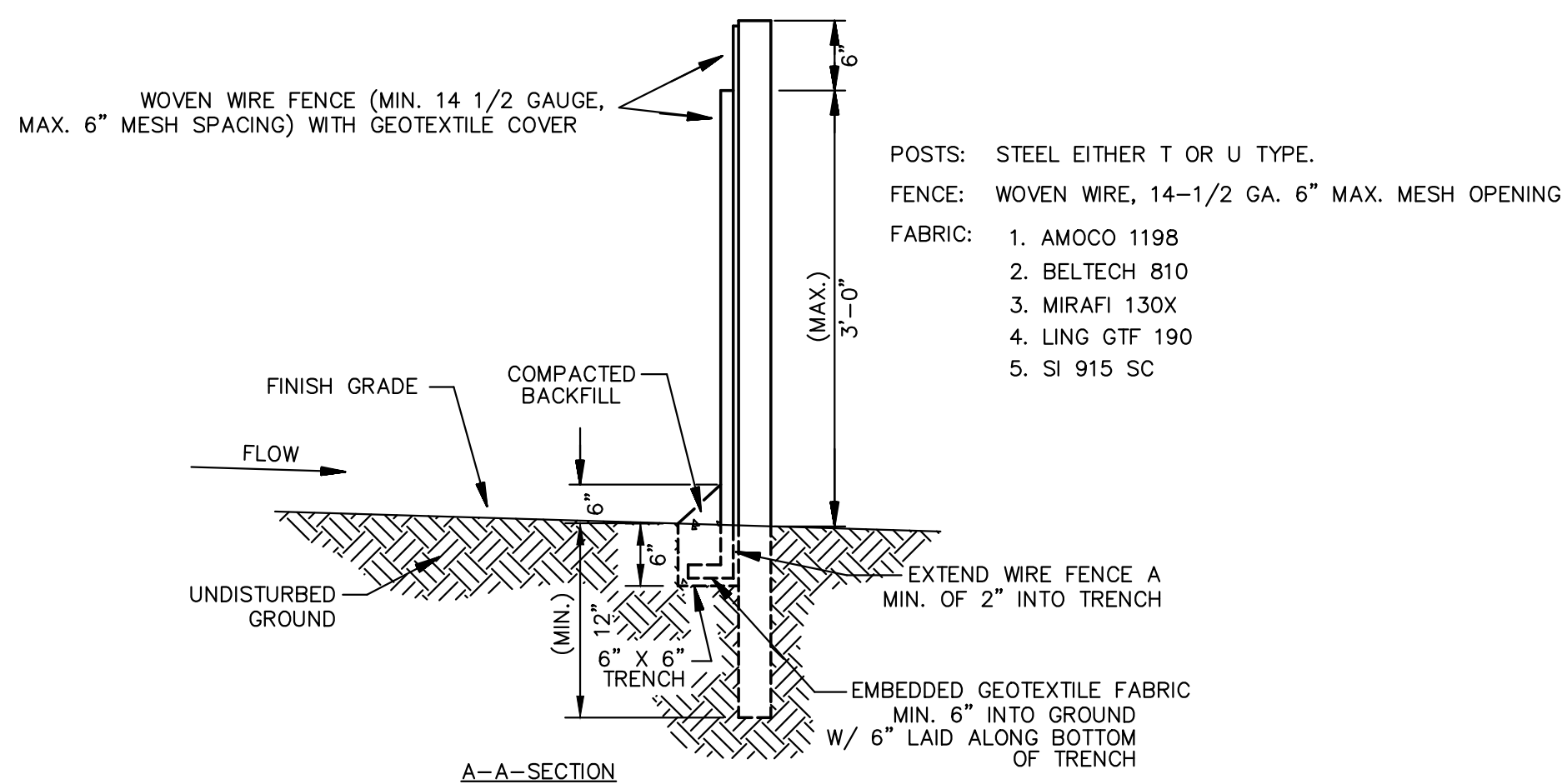
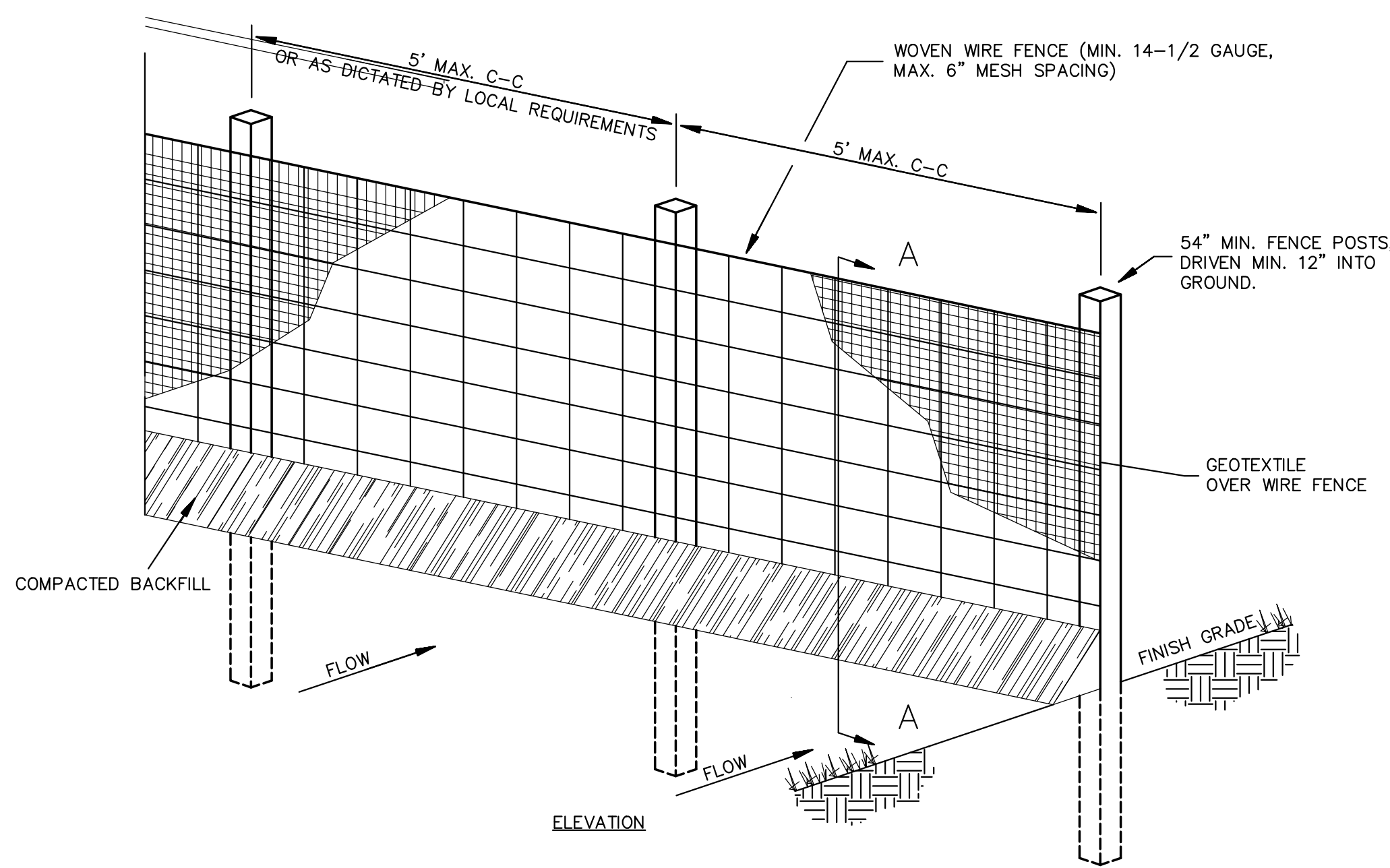
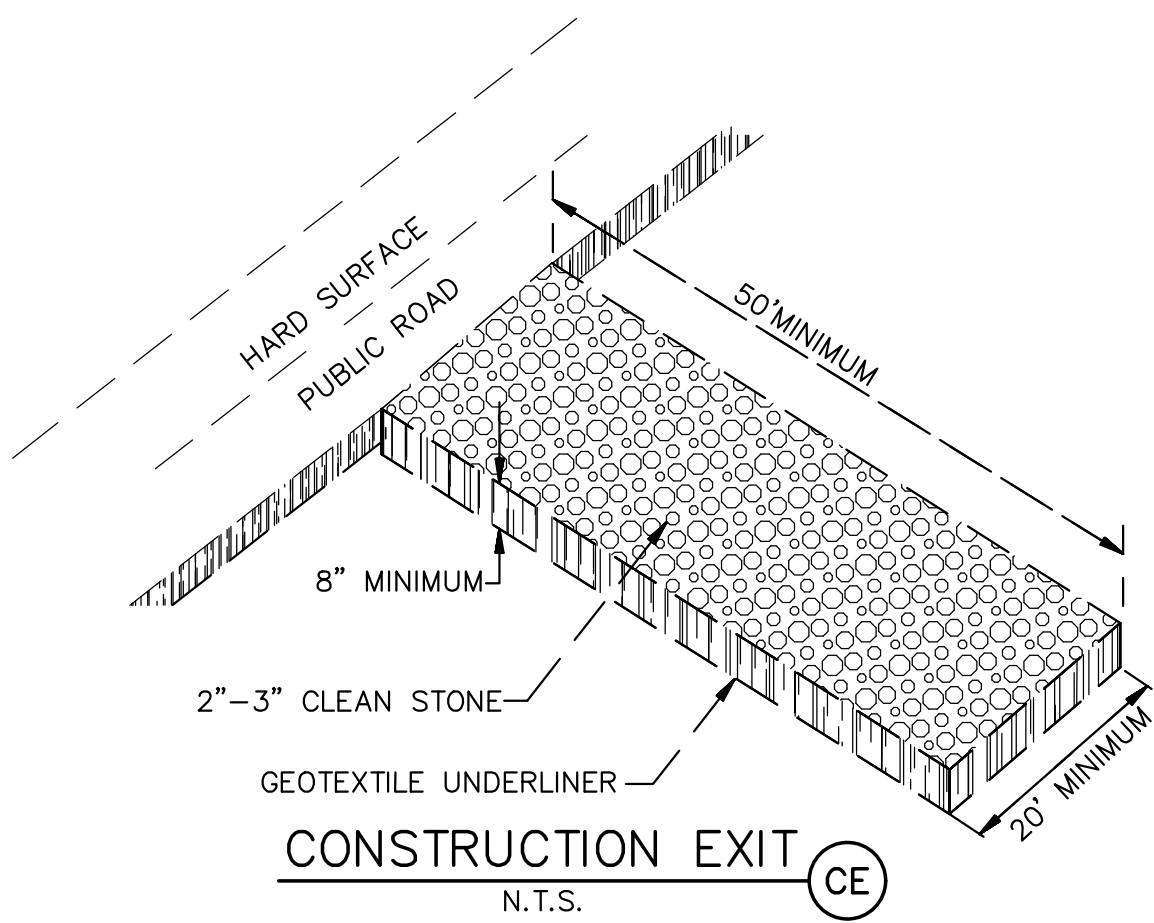
ESC PLAN STANDARD NOTES (2023-06-16)

1. 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:
  - a. THE CITY ORDINANCE § 14-5-2-11, THE ESC ORDINANCE,
  - b. THE EPA'S 2022 CONSTRUCTION GENERAL PERMIT (CGP), AND
  - c. THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL.
2. ALL BMP'S MUST BE INSTALLED PRIOR TO BEGINNING ANY EARTH MOVING ACTIVITIES EXCEPT AS SPECIFIED HEREON IN THE PHASING PLAN. CONSTRUCTION OF EARTHEN BMP'S 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.
3. SELF-INSPECTIONS – IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), "AT A MINIMUM A ROUTINE SELF-INSPECTION IS REQUIRED TO REVIEW THE PROJECT FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT ONCE EVERY 14 DAYS AND AFTER ANY PRECIPITATION EVENT OF 1/4 INCH OR GREATER UNTIL THE SITE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE DETERMINED AS STABILIZED BY THE CITY. REPORTS OF THESE INSPECTIONS SHALL BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
4. CORRECTIVE ACTION REPORTS MUST BE KEPT BY THE PERSON OR ENTITY AUTHORIZED TO DIRECT THE CONSTRUCTION ACTIVITIES ON THE SITE AND MADE AVAILABLE UPON REQUEST.
5. FINAL STABILIZATION AND NOTICE OF TERMINATION (NOT) – IN ACCORDANCE WITH CITY ORDINANCE § 14-5-2-11(C)(1), SELF-INSPECTIONS MUST CONTINUE UNTIL THE SITE IS "DETERMINED AS STABILIZED BY THE CITY." THE PROPERTY OWNER/OPERATOR IS RESPONSIBLE FOR DETERMINING WHEN THE "CONDITIONS FOR TERMINATING CGP COVERAGE" PER CGP PART 8.2 ARE SATISFIED AND THEN FOR FILING THEIR NOTICE OF TERMINATION (NOT) WITH THE EPA. EACH OPERATOR MAY TERMINATE CGP COVERAGE ONLY IF ONE OR MORE OF THE CONDITIONS IN PART 8.2.1, 8.2.2, OR 8.2.3 HAS OCCURRED. AFTER FILING THE NOT WITH THE EPA, THE PROPERTY OWNER IS RESPONSIBLE FOR REQUESTING A DETERMINATION OF STABILIZATION FROM THE CITY.
6. WHEN DOING WORK IN THE CITY RIGHT-OF-WAY (E.G. SIDEWALK, DRIVE PADS, UTILITIES, ETC.) PREVENT DIRT FROM GETTING INTO THE STREET. IF DIRT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEEP DAILY OR PRIOR TO A RAIN EVENT OR CONTRACTOR INDUCED WATER EVENT (E.G. CURB CUT OR WATER TEST).
7. WHEN INSTALLING UTILITIES BEHIND THE CURB, THE EXCAVATED DIRT SHOULD NOT BE PLACED IN THE STREET.
8. WHEN CUTTING THE STREET FOR UTILITIES THE DIRT SHALL BE PLACED ON THE UPHILL SIDE OF THE STREET CUT AND THE AREA SWEEP AFTER THE WORK IS COMPLETE. A WATTLE OR MULCH SOCK MAY BE PLACED AT THE TOE OF THE EXCAVATED DIRT PILE IF SITE CONSTRAINTS DO NOT ALLOW PLACING THE EXCAVATED DIRT ON THE UPHILL SIDE OF THE STREET CUT.
9. ESC PLANS MUST SHOW LONGITUDINAL STREET SLOPE AND STREET NAMES. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES/MULCH SOCKS OR J-HOOD SILT FENCE SHALL BE SHOWN IN THE FRONT YARD SWALE OR ON THE SIDE OF THE STREET.

GENERAL EROSION NOTES:

- A. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE SWPPP BOOK, THE 2022 GENERAL CONSTRUCTION PERMIT, THIS DRAWING ("TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN"), STANDARD DETAILS ("TEMPORARY EROSION CONTROL AND SEDIMENTATION DETAILS"), EPA NOTICE OF INTENT PERMIT AND ALL SUBSEQUENT REPORTS, CORRECTIVE ACTIONS AND EROSION CONTROL RELATED DOCUMENTS.
- B. ALL OPERATORS AS DESIGNATED, CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH SITE ACTIVITIES RELATED TO STORM WATER POLLUTION PREVENTION SHALL REVIEW A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE 2017 CONSTRUCTION GENERAL PERMIT, THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), THE CLEAN WATER ACT OF 1972 AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. THE OPERATOR IN CONTROL OF DAILY SITE ACTIVITIES SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS THAT MAY OCCUR AT NO ADDITIONAL COST TO PROJECT OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO ALL FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. OPERATOR WITH CONTROL OF DAILY SITE ACTIVITIES SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY, LOCAL JURISDICTIONAL AUTHORITY OR SWPPP COMPLIANCE INSPECTOR.
- E. THE TEMPORARY EROSION CONTROL AND SEDIMENTATION PLAN IS A WORKING DOCUMENT AND IS REQUIRED TO BE UPDATED WITHIN 24 HOURS OF ANY CHANGES WHEN BMP'S ARE REPAIRED, RELOCATED OR REMOVED BY NOTING ON THE PLAN THE AREAS AND DATES OF THE REPAIRS, RELOCATIONS OR REMOVALS. AN ACTIVE COPY OF THE PLAN SHALL BE POSTED IN THE JOB SITE TRAILER ONSITE AND MUST BE MAINTAINED CURRENT AT ALL TIMES.
- F. CONTRACTOR SHALL MINIMIZE CLEARING AND EARTH DISTURBANCE TO THE MAXIMUM ACREAGE AS REQUIRED BY THE EPA CONSTRUCTION GENERAL PERMIT.
- G. CONTRACTOR SHALL DENOTE ON THIS PLAN, THE LOCATION OF TEMPORARY PARKING, STORAGE, PORTABLE SANITARY FACILITIES, OFFICE TRAILERS, AND ALL SUPPORT AREAS. RELOCATIONS OF EACH SHALL ALSO BE DOCUMENTED AS THEY OCCUR.
- H. ALL WASH OUT WATER USED FOR CONCRETE, MASONRY, PAINT AND OTHER MATERIALS SHALL HAVE ADEQUATE SIGNAGE WITH PROPER CONTAINMENT AND DISPOSED OF PROPERLY WHEN CAPACITY REACHES 50% OR PER VENDOR RECOMMENDATIONS. VENDORS AND TRADESMEN SHALL BE INFORMED OF THE REQUIREMENTS TO USE THE WASH OUT.
- I. A SPILL KIT SHALL BE READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS. A DISCHARGE OF ANY MATERIAL IN A QUANTITY THAT MAY WITHIN REASONABLE PROBABILITY CAUSE, INJURE OR BE DETRIMENTAL TO HUMAN HEALTH, ANIMAL OR PLANT LIFE, OR PROPERTY; OR INTERFERE WITH THE PUBLIC WELFARE MUST BE REPORTED TO THE NEW MEXICO ENVIRONMENTAL DEPARTMENT HOTLINE AT (505) 827-9329 FOR EMERGENCIES OR FOR NON EMERGENCIES AT (866)-428-6535. IF UNSURE IF THE SPILL IS OF A SIGNIFICANT QUANTITY, THE SPILL SHOULD BE REPORTED TO THE HOTLINE AND INFORMATION PROVIDED WITH DETAILS OF THE SPILL FOR FURTHER ACTIONS.
- J. DUST DURING CONSTRUCTION OPERATIONS SHALL BE FREQUENTLY CONTROLLED BY WATER SUPPRESSION METHODS ONLY. EARTH DISTURBING OPERATIONS SHALL CEASE IF HIGH WINDS ABOVE 35 MPH ARE PRESENT. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS IS STRICTLY PROHIBITED. OTHER CHEMICALS USED FOR DUST SUPPRESSION MUST BE APPROVED BY THE EPA PRIOR TO THEIR USE.
- K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED, COVERED, LEAK PROOF CONTAINERS. CONTAINERS SHALL BE DISPOSED OF PROPERLY WHEN CAPACITY IS REACHED. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER.
- L. ALL STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED PER THE SEQUENCE OF CONSTRUCTION AS NOTED.
- M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS BEEN TEMPORARILY SUSPENDED FOR 14 DAYS, SHALL HAVE TEMPORARILY STABILIZATION IN PLACE NO LATER THAN 14 DAYS FROM THE LAST DATE OF CONSTRUCTION ACTIVITY OCCURRING THESE AREAS.
- N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL HAVE PERMANENT CONTROLS IN PLACE NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- O. IF THE ACTION OF VEHICLES OR EQUIPMENTS TRAVELING OVER THE CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD FROM LEAVING THE SITE, THEN THE LENGTH OF THE EXIT SHOULD BE EXTENDED TO PROVIDE ADDITIONAL TIRE ROTATIONS, LARGER ROCK MAY BE USED TO CREATE A SUFFICIENT JARRING MOTION OR INSTALL A TIRE WASH OFF WITH A SEDIMENT TRAP BEFORE LEAVING THE SITE.
- P. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- Q. THE OPERATOR IN CHARGE OF THE DAILY SITES ACTIVITIES WILL BE RESPONSIBLE FOR REMOVING SEDIMENT OR SOILS ACCUMULATING MORE THAN 50% OF THE DESIGN CAPACITY IN DETENTION PONDS, SILT FENCING OR OTHER SIMILAR EROSION CONTROLS.
- R. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES, AS REQUIRED PER THE CONSTRUCTION GENERAL PERMIT. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE ESC PLAN AND PERMITTED IN ACCORDANCE WITH LOCAL AUTHORITIES HAVING JURISDICTIONAL CONTROL.
- S. SLOPES SHALL BE LEFT WITH CROSS SLOPE GRADING PATTERN AND IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION RILLS. EXCESSIVE SLOPES MAY REQUIRE ADDITIONAL INDUSTRY STANDARD CONTROLS TO PREVENT EROSION.
- T. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE OPERATOR IN CONTROL OF THE SITE'S DAILY ACTIVITIES SHALL BE RESPONSIBLE FOR ADJUSTING AND MAINTAINING ALL EROSION CONTROL TO PREVENT EROSION.
- U. ALL DISTURBED AREAS SHALL BE SUPPRESSED BY WATER AND ALL CONTROLS LEFT IN GOOD WORKING CONDITION AT THE END OF EACH WORKING DAY. THIS INCLUDES REPLACEMENT OF SILT FENCING AND/OR OTHER SURFACE CONTROLS, TRACK OUT SWEEP CLEAN, BACKFILL OF OPEN TRENCHES AND ANY OTHER EROSION CONTROLS.

|  |   |                          |
|--|---|--------------------------|
| <div>ENGINEER'S SEAL</div> <div></div> <div>RONALD R. BOHANNAN<br/>P.E. #7868</div> | PLAYA DEL SUR<br>COORS AND I40  | DRAWN BY<br>AS           |
|  | EROSION CONTROL<br>NOTES  | DATE<br>05/08/24         |
|  |   | DRAWING<br>2023076-SWPPP |
|  | <div> <b>TIERRA WEST, LLC</b><br/>5571 MIDWAY PARK PL. NE<br/>ALBUQUERQUE, NEW MEXICO 87109<br/>(505) 858-3100<br/>www.tierrawestllc.com</div> | SHEET #<br><b>SW-2</b>   |
|  |   | JOB #<br>2023024         |



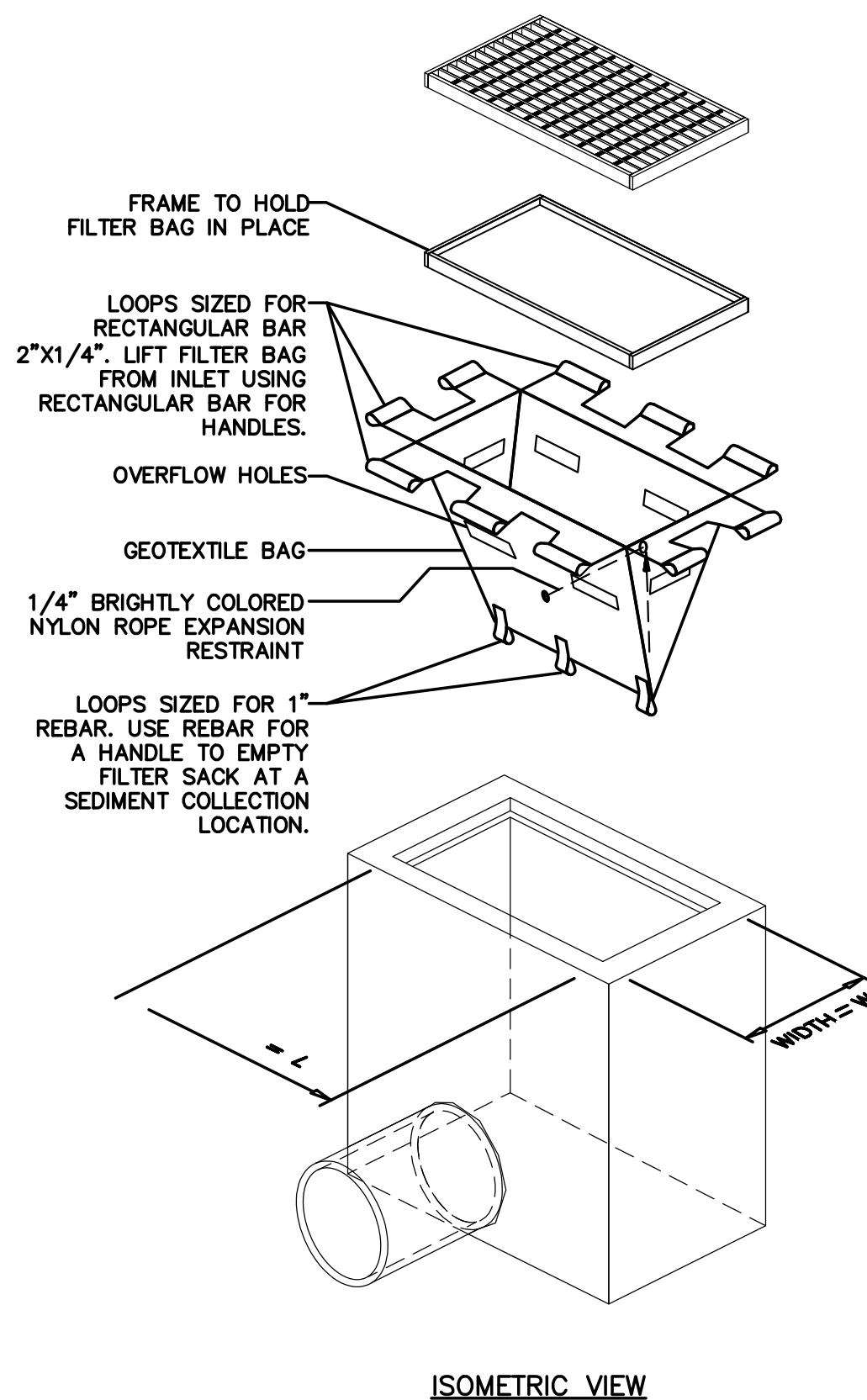
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES.
2. GEOTEXTILE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE

## SEDIMENTATION/SILT FENCE WITH WIRE SUPPORT

N.T.S.

## TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT

N.T.S.



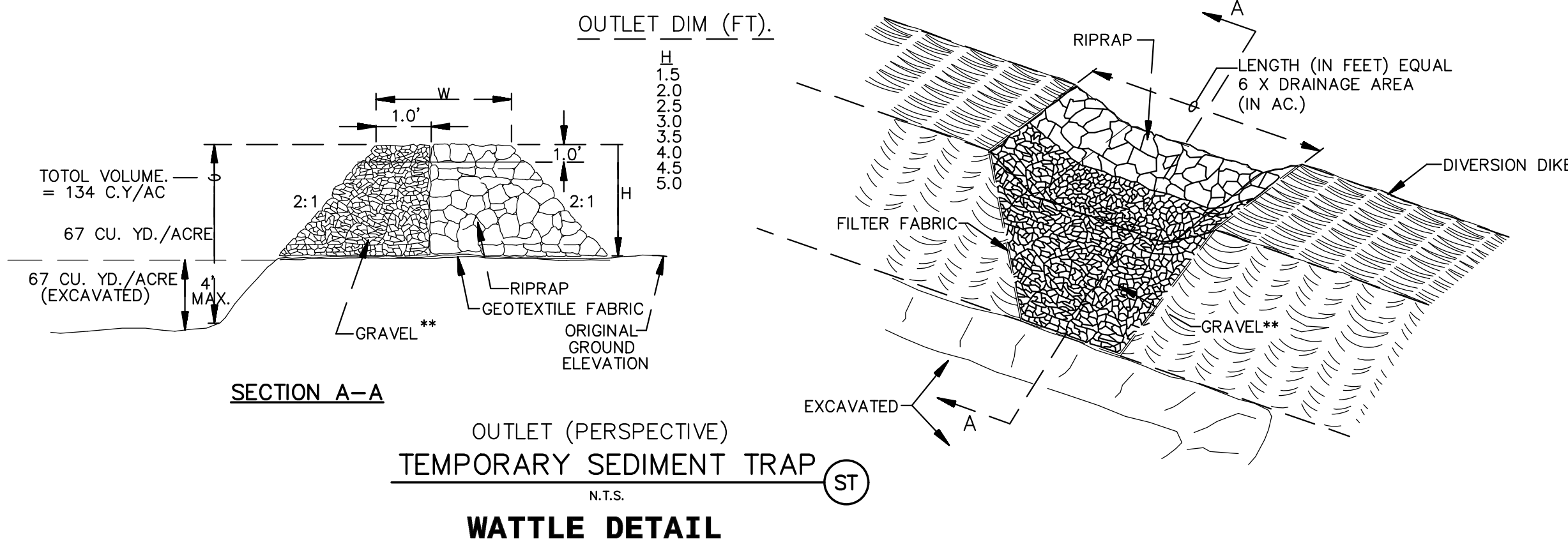
| LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE |             |                  |
|--|-------------|------------------|
| PROPERTIES   | TEST METHOD | UNITS            |
| GRAB TENSILE STRENGTH                                      | ASTM D-4632 | 300 LBS          |
| GRAB TENSILE ELONGATION                                    | ASTM D-4632 | 20 %             |
| PUNCTURE   | ASTM D-4833 | 120 LBS          |
| MULLEN BURST   | ASTM D-3786 | 800 PSI          |
| TRAPEZOID TEAR   | ASTM D-4533 | 120 LBS          |
| UV RESISTANCE  | ASTM D-4355 | 80 %             |
| APPARENT OPENING SIZE                                      | ASTM D-4751 | 40 US SIEVE      |
| FLOW RATE  | ASTM D-4491 | 40 GAL/MIN/SQ FT |
| PERMITTIVITY   | ASTM D-4491 | 0.55 SEC -1      |

| MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE |             |                   |
|---|-------------|-------------------|
| PROPERTIES  | TEST METHOD | UNITS             |
| GRAB TENSILE STRENGTH                                       | ASTM D-4632 | 265 LBS           |
| GRAB TENSILE ELONGATION                                     | ASTM D-4632 | 20 %              |
| PUNCTURE  | ASTM D-4833 | 135 LBS           |
| MULLEN BURST  | ASTM D-3786 | 420 PSI           |
| TRAPEZOID TEAR  | ASTM D-4533 | 45 LBS            |
| UV RESISTANCE   | ASTM D-4355 | 90 %              |
| APPARENT OPENING SIZE                                       | ASTM D-4751 | 20 US SIEVE       |
| FLOW RATE   | ASTM D-4491 | 200 GAL/MIN/SQ FT |
| PERMITTIVITY  | ASTM D-4491 | 1.5 SEC -1        |

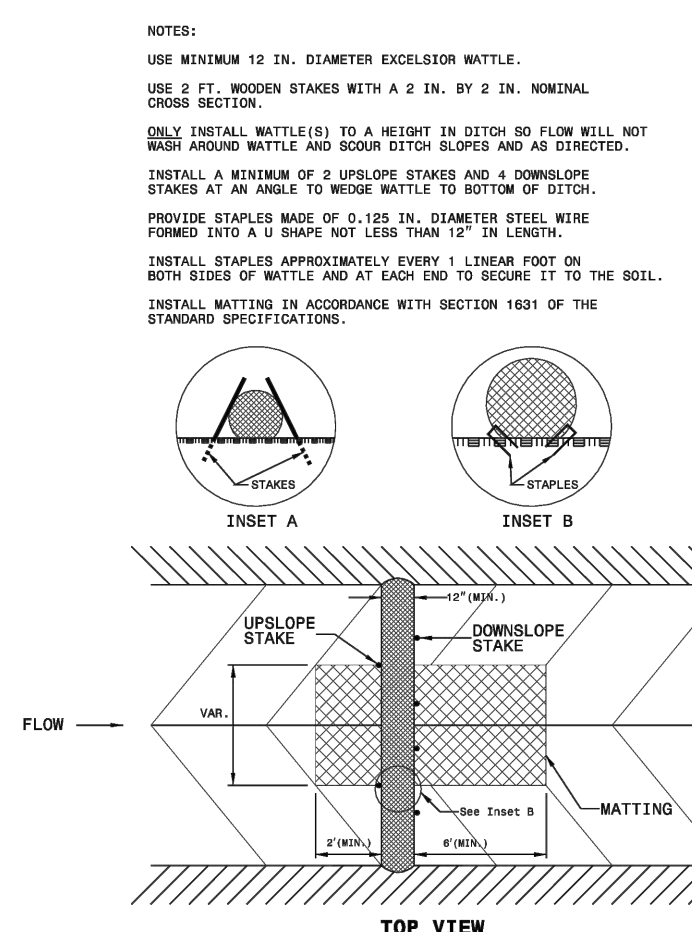
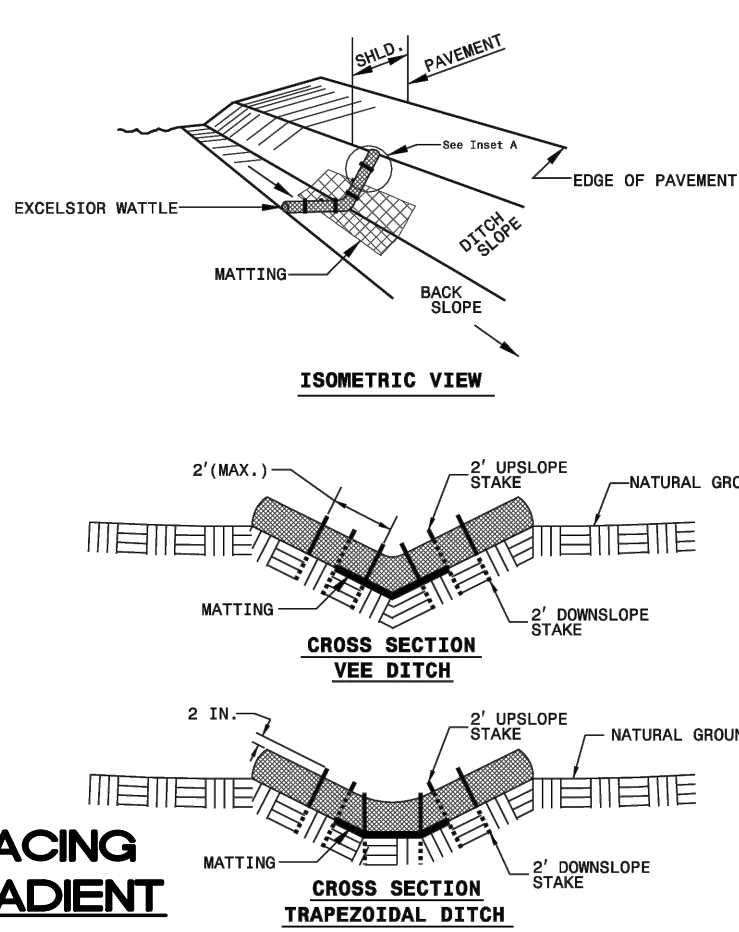
## INLET PROTECTION FILTER SACK

N.T.S.

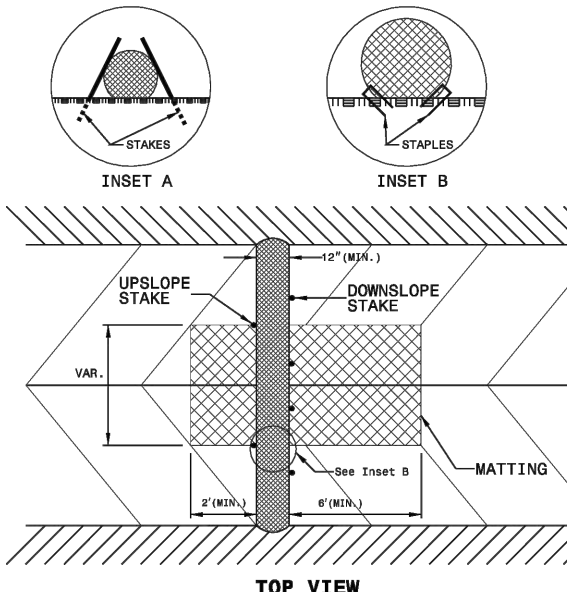
\*\* GRAVEL SHALL BE 2"-3" CLEAN STONE



## WATTLE DETAIL

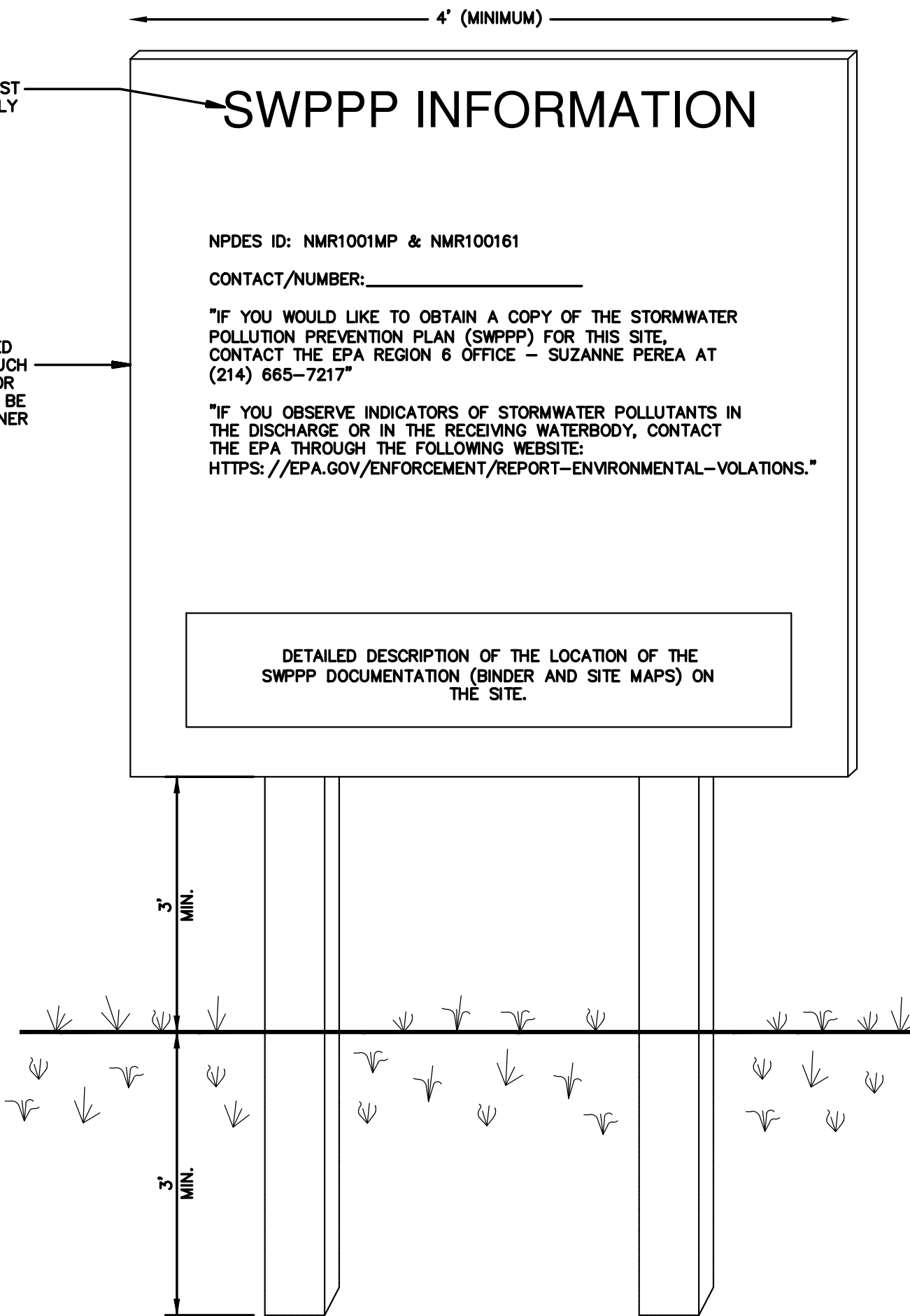


NOTES:  
USE MINIMUM 12 IN. DIAMETER EXCELSDOR WATTLE.  
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.  
ONLY INSTALL WATTLE (S) TO A HEIGHT IN SECTION SO FLOW WILL NOT BEHIND WATTLE AND DOWN SLOPE SLOPES AND AS DIRECTED.  
INSTALL A MINIMUM OF 8 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WATTLE TO SUPPORT OF BUTCH.  
PROVIDE STAKES MADE OF 1/2 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.  
INSTALL STAKES APPROXIMATELY EVERY 1' ALONG FRONT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.  
INSTALL WATTLE IN ACCORDANCE WITH SECTION 1601 OF THE STANDARD SPECIFICATIONS.



"SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.

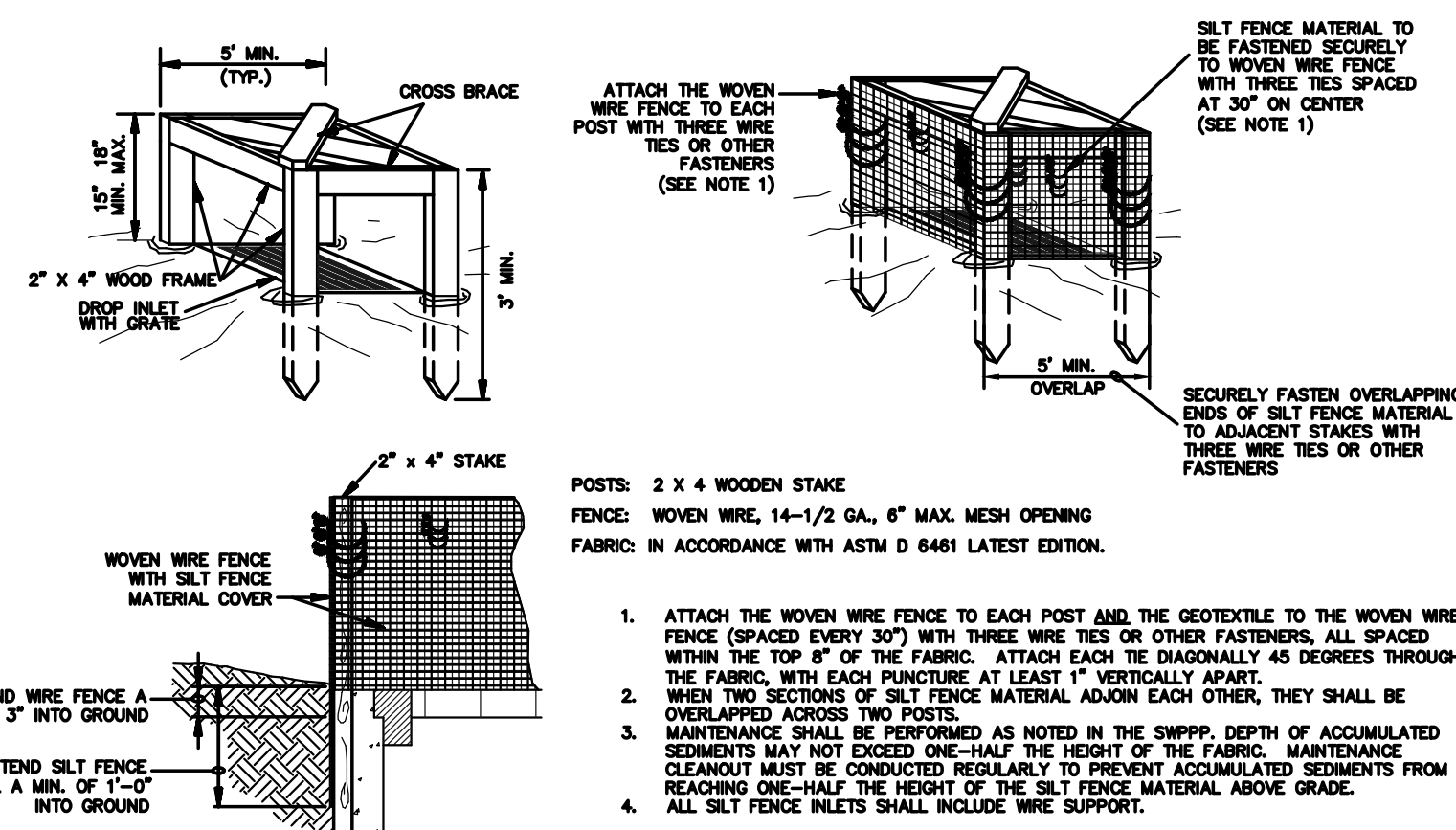
TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).



- NOTES:
- 1) THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE CONSTRUCTION EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
  - 2) ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
  - 3) CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
  - 4) SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
  - 5) CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

## SWPPP INFORMATION SIGN

N.T.S.

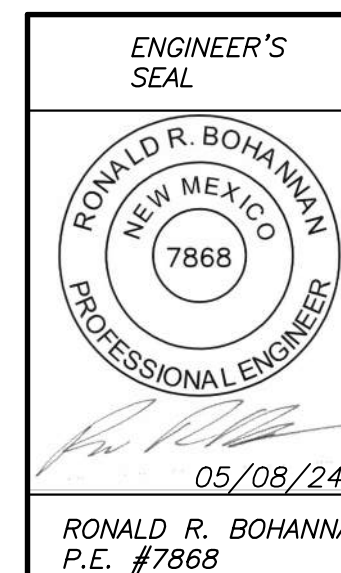


POSTS: 2 X 4 WOODEN STAKE  
FENCE: WOVEN WIRE, 14-1/2 GA., 6" MAX. MESH OPENING  
FABRIC: IN ACCORDANCE WITH ASTM D 6461 LATEST EDITION.

1. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 30") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART.
2. WHEN TWO SECTIONS OF SILT FENCE MATERIAL ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED ACROSS TWO POSTS.
3. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED ONE-HALF THE HEIGHT OF THE FABRIC. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING ONE-HALF THE HEIGHT OF THE SILT FENCE MATERIAL ABOVE GRADE.
4. ALL SILT FENCE INLETS SHALL INCLUDE WIRE SUPPORT.

## SILT FENCE INLET PROTECTION

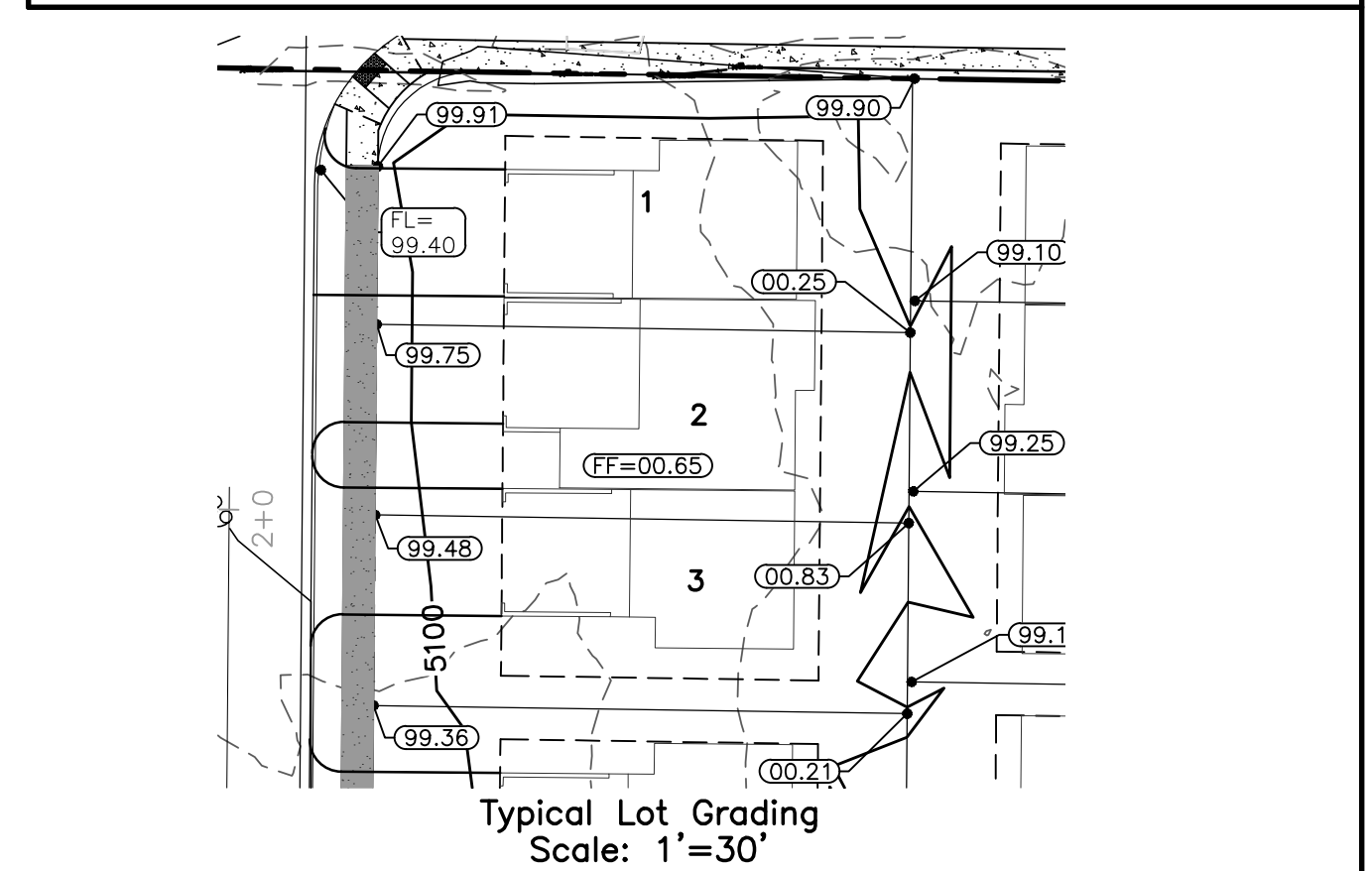
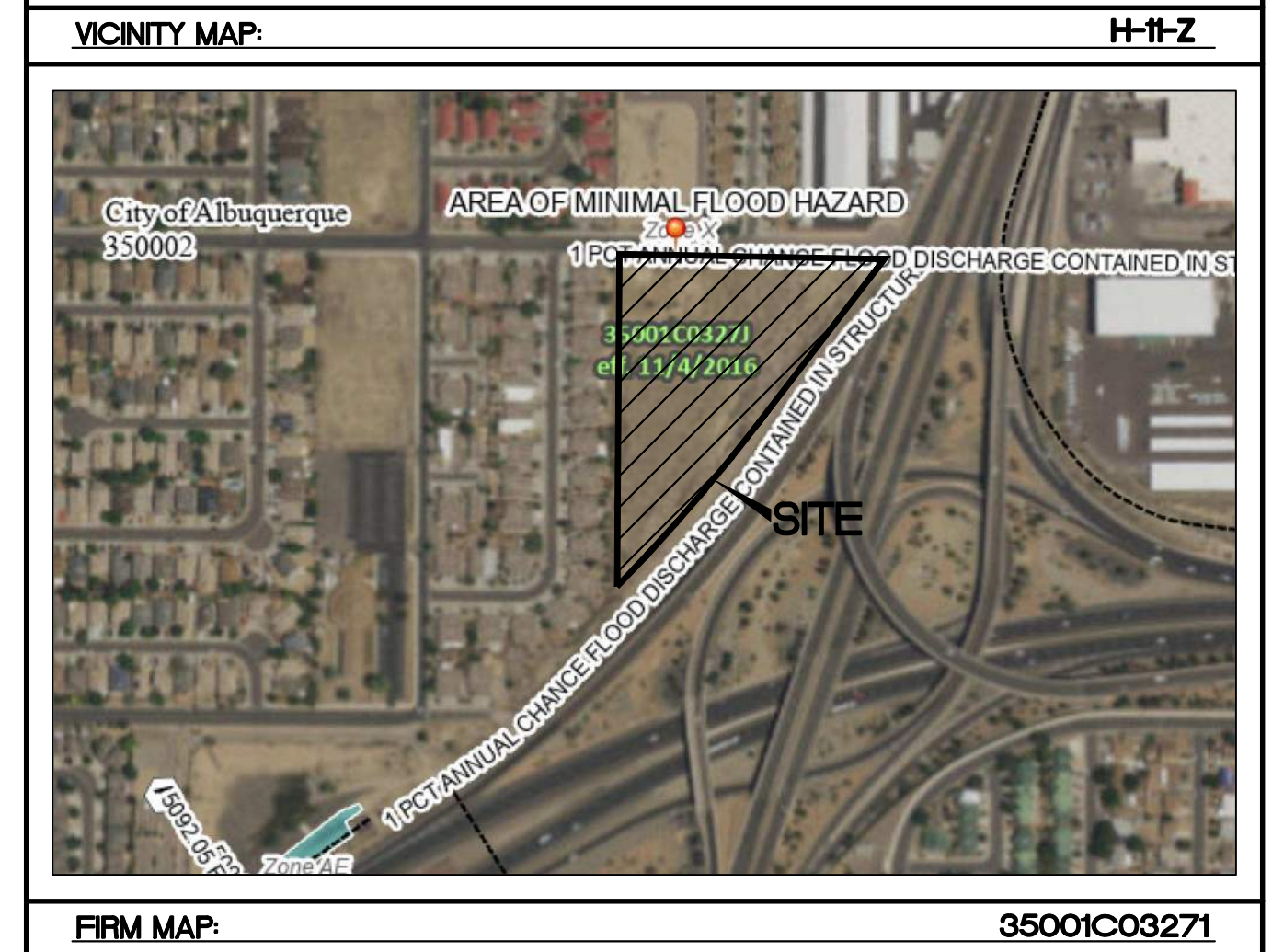
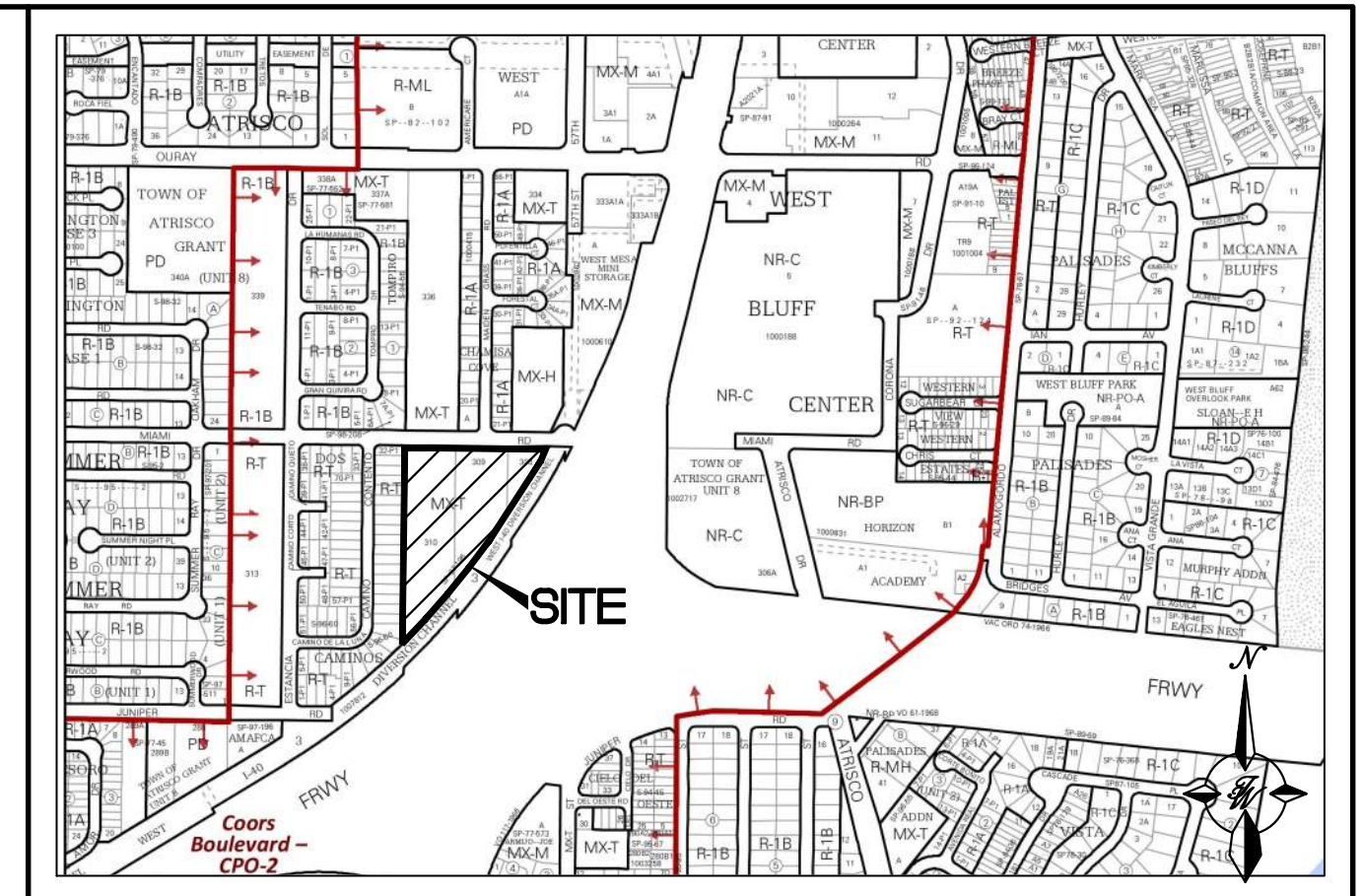
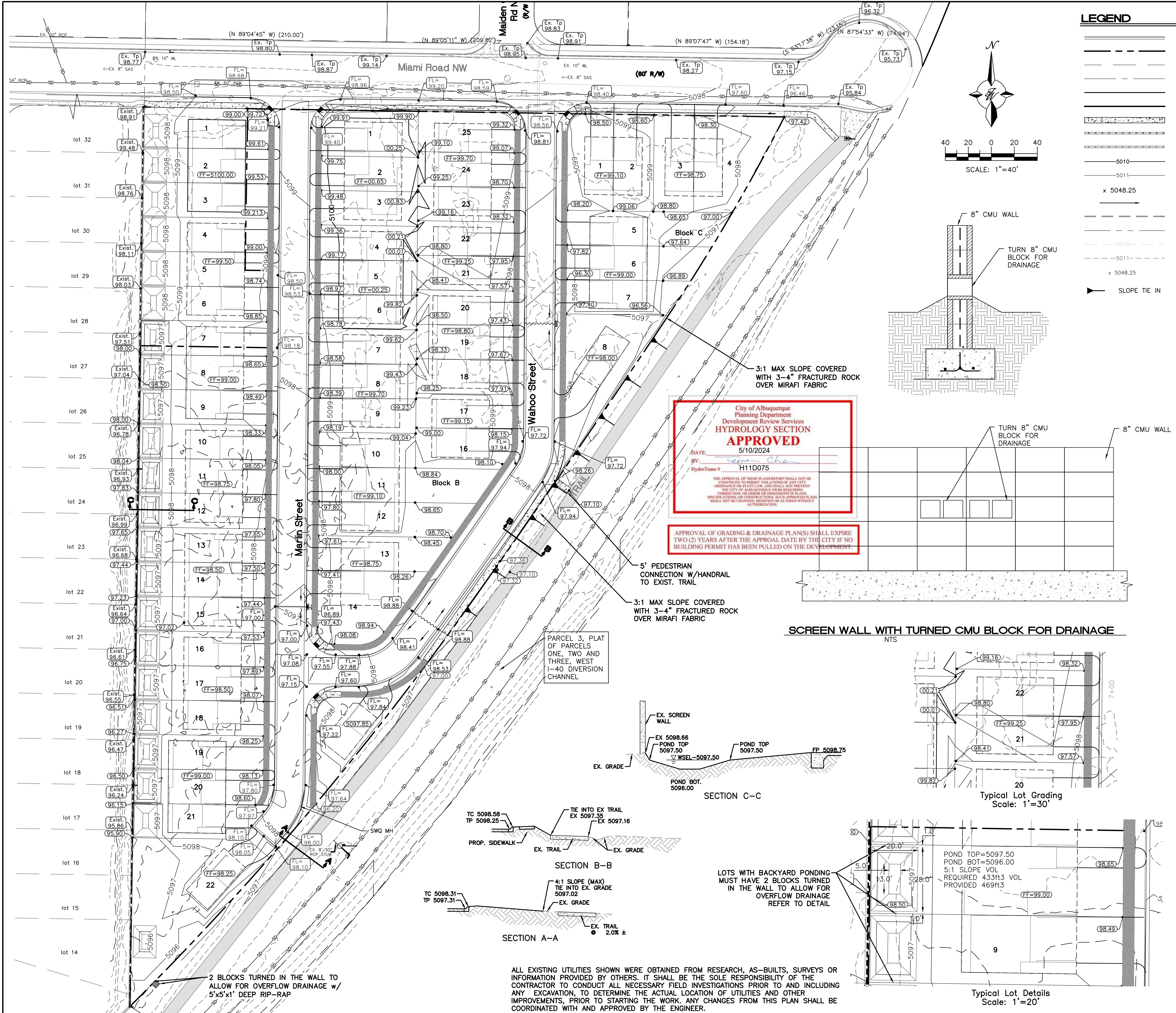
N.T.S.



## PLAYA DEL SUR COORS AND I40 EROSION CONTROL DETAILS

TIERRA WEST, LLC  
5571, MIDWAY PARK BL NE,  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 858-3100  
www.tierrawestllc.com

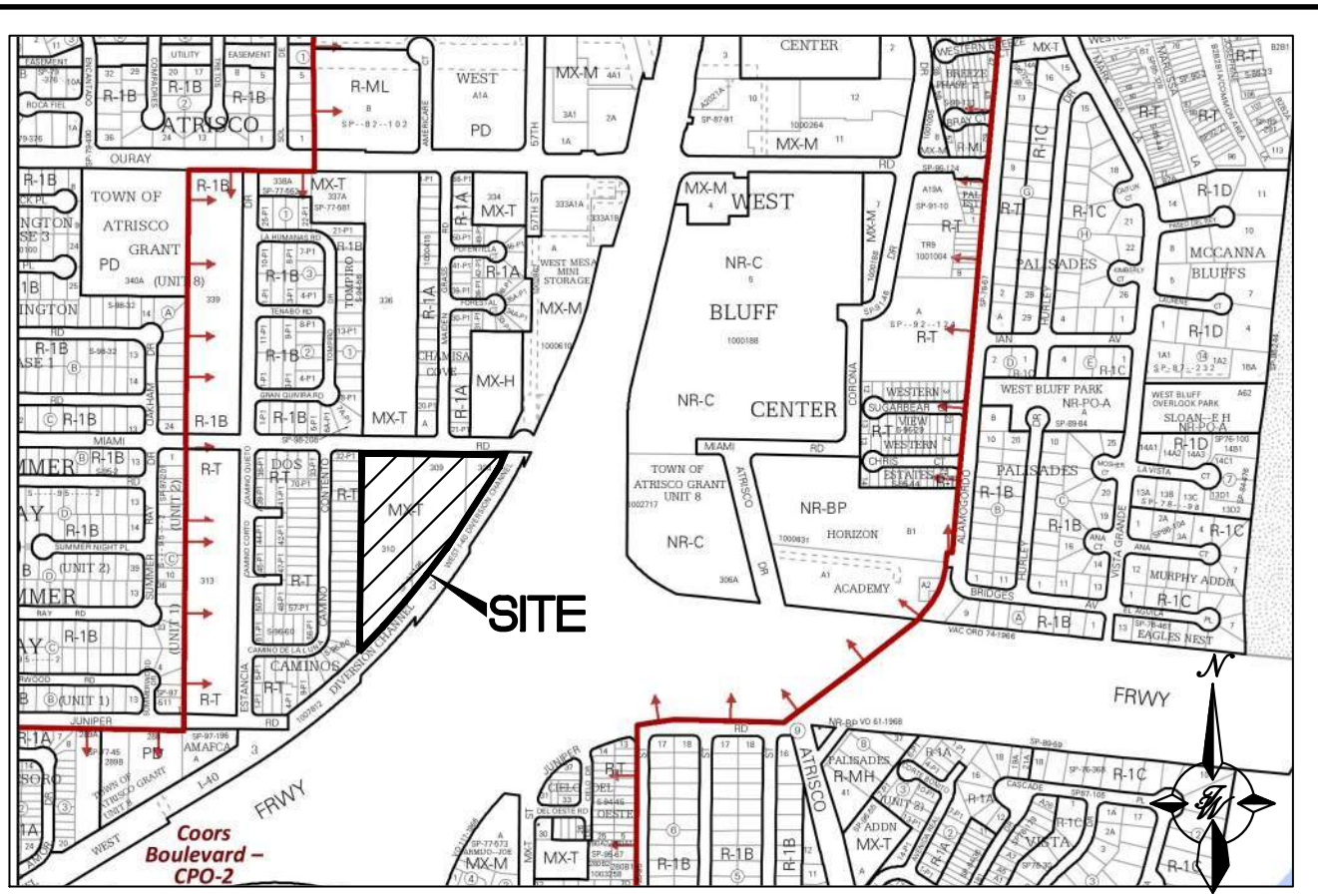
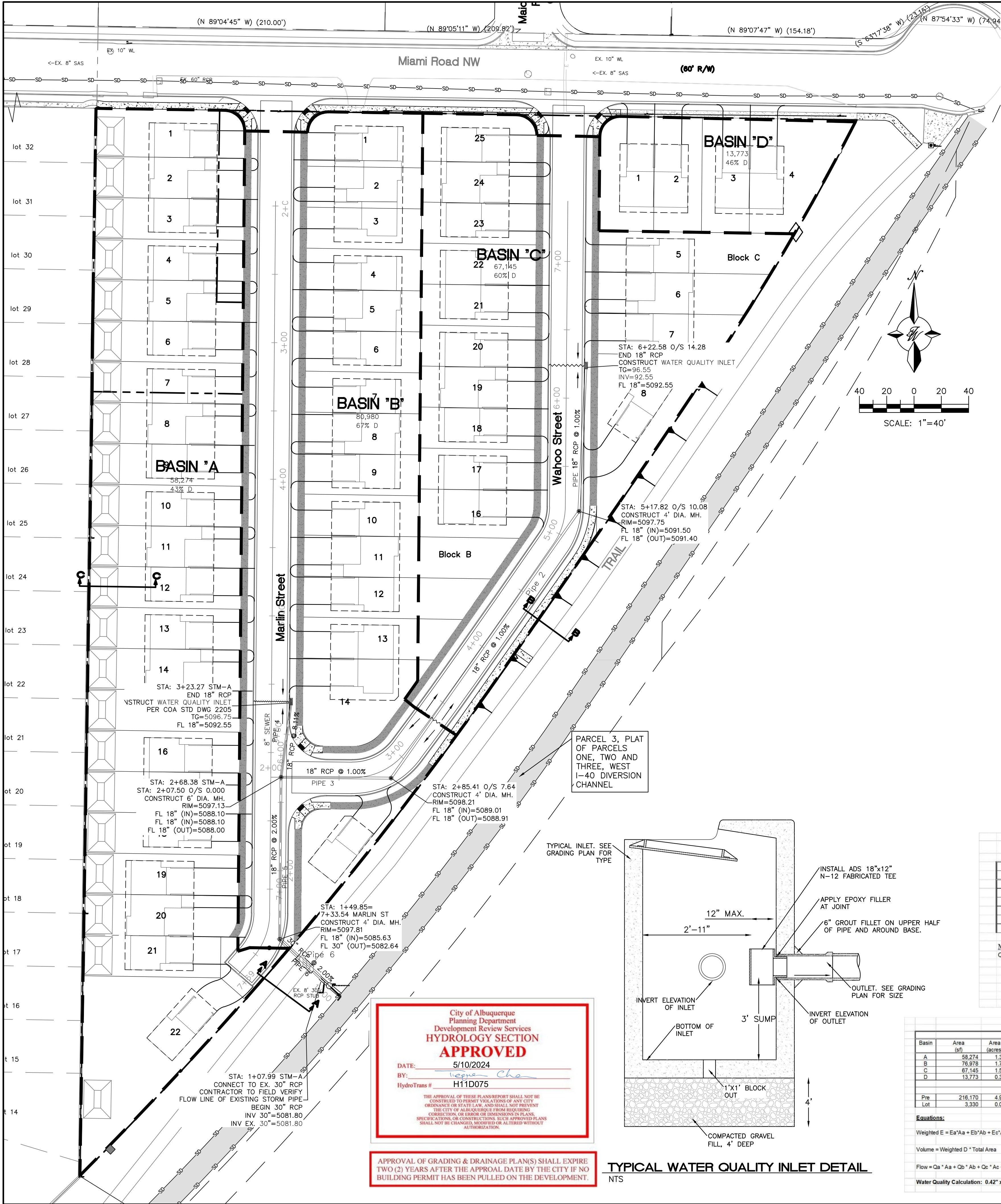
DRAWN BY  
AS  
DATE  
05/08/24  
DRAWING  
2023076-SWPPP  
SHEET #  
SW-3  
JOB #  
2023024



**PRIVATE DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY  
NOTICE TO CONTRACTOR (SPECIAL ORDER 19 - '80-19')**

- BUILD SIDEWALK CULVERT PER COA STD DWG 2236.
- CONTACT STORM MAINTENANCE AT (505)857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
- AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
- 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.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL DIAL "811" [OR (505)260-1990] FOR THE LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF ALL OBSTRUCTIONS. SHOULD CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
- WORK ON ARTERIAL STREETS MAY BE REQUIRED ON A 24-HOUR BASIS.
- CONTRACTOR MUST CONTACT STORM MAINTENANCE AT (505)857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505)924-3416.

|  |   |                          |
|--|---|--------------------------|
|  | <b>PLAYA DEL SUR<br/>COORS AND I40</b>  | DRAWN BY<br>AS           |
|  | <b>GRADING AND DRAINAGE<br/>PLAN</b>  | DATE<br>05/08/24         |
|  | <b>TIERRA WEST, LLC</b><br>5571 MIDWAY PARK PL NE<br>ALBUQUERQUE, NEW MEXICO 87109<br>(505) 858-3100<br>www.tierrawestllc.com | DRAWING<br>2023024-X_DRE |
|  |   | SHEET #<br><b>GR 1</b>   |
|  |   | JOB #<br>2023024         |



- LEGEND
- DRAINAGE BASINS
  - FLOW ARROW
  - - - EXISTING CURB & GUTTER
  - - - EXISTING BOUNDARY LINE
  - - - EXISTING CONTOUR MAJOR
  - - - EXISTING CONTOUR MINOR
  - x 5048.25 EXISTING SPOT ELEVATION

EXISTING DRAINAGE: THIS SITE IS LOCATED AT THE NORTHWEST CORNER OF THE INTERSTATE 40 AND COORS BOULEVARD INTERCHANGE. THE SITE IS BOUNDED BY A RESIDENTIAL SUBDIVISION ON THE WEST AND NORTH AND BY COORS BOULEVARD ON THE EAST AND SOUTH CONTAINING APPROXIMATELY 5.20 ACRES. THE SITE IS CURRENTLY VACANT AND DRAINS FROM NORTH TO SOUTH. THERE ARE NO OFFSITE FLOWS THAT ENTER THE SITE. THE SITE IS NOT LOCATED IN A FLOOD PLAIN AS SHOWN ON FIRM MAP 35001C0327J. THE SITE CURRENTLY DISCHARGES 10.82 CFS.

PROPOSED DRAINAGE: THE PROJECT CONSISTS OF A RESIDENTIAL SUBDIVISION. WATERBLOCKS WILL BE CREATED AT THE INTERSECTIONS WITH MIAMI ROAD TO PREVENT WATER FROM THAT STREET ENTERING THE SUBDIVISION. THE SITE IS DIVIDED INTO FOUR BASINS. BASIN "A" IS ALONG THE WEST PROPERTY LINE NEXT TO AN EXISTING SUBDIVISION. BECAUSE OF THE GRADE OF THE NEW STREET THESE LOTS ARE NOT ABLE TO DRAIN FROM BACK TO FRONT AND CONTAIN BACKYARD RETENTION PONDS SIZED TO HOLD THE 100 YR. 6-HR STORM. THESE PONDS WOULD OVERFLOW TO THE SOUTH AND EVENTUALLY TO THE AMAFCA RIGHT OF WAY IN LARGER STORMS. OPENINGS WILL BE PROVIDED IN THE WALLS BETWEEN THE LOTS TO ALLOW EXCESS STORM WATER TO FLOW TO THE SOUTH. A DRAINAGE EASEMENT FOR THESE PONDS WILL BE PROVIDED ON THE SUBDIVISION PLAT. BASIN "B" CONSISTS OF MARLIN STREET AND THE LOTS ON THE EAST SIDE OF MARLIN STREET. BASIN "B" DRAINS TO A DROP INLET AT THE INTERSECTION WITH WAHOO STREET AND CONVEYED TO THE EXISTING AMAFCA BOX CULVERT VIA STORM SEWER. BASIN "C" CONSISTS OF WAHOO STREET AND LOTS ON BOTH SIDES. BASIN "C" DRAINS TO A DROP INLET MIDBLOCK AND CONVEYED TO THE EXISTING AMAFCA BOX CULVERT VIA STORM SEWER. BASIN "D" CONSISTS OF FOUR LOTS ALONG MIAMI ROAD AND WILL DRAIN TO THAT ROAD. THE FLOWS IN MIAMI ROAD ARE COLLECTED VIA DROP INLETS AND CONVEYED VIA STORM SEWER TO THE AMAFCA BOX CULVERT. THE STORM SEWER WILL DRAIN TO AN EXISTING 30" RCP STUB FROM THE WEST BLUFF OUTFALL BOX CULVERT LOCATED ALONG THE EAST PROPERTY LINE. BASED ON THE WEST BLUFF OUTFALL PHASE II I-40 STORM SEWER INTERCEPTOR REPORT THIS PROJECT MAY DISCHARGE DEVELOPED FLOWS WHICH IS 16.27 CFS. THE EXISTING 30" STUB HAS A CAPACITY OF 58.16 CFS. THE WATER QUALITY VOLUME REQUIREMENT IS 0.107 AC-FT. BASIN "A" PONDS 0.214 AC-FT, WHICH IS TWICE WHAT IS REQUIRED.

Pipe Capacity

| Pipe | D (in) | Slope (%) | Area (ft <sup>2</sup> ) | R     | Q Provided (cfs) | Q Required (cfs) | Velocity (ft/s) |
|------|--------|-----------|-------------------------|-------|------------------|------------------|-----------------|
| 1    | 18     | 1.73      | 1.77                    | 0.375 | 13.85            | 5.14             | 2.91            |
| 2    | 18     | 1.73      | 1.77                    | 0.375 | 13.85            | 5.14             | 2.91            |
| 3    | 18     | 1.73      | 1.77                    | 0.375 | 13.85            | 5.14             | 2.91            |
| 4    | 18     | 2.00      | 1.77                    | 0.375 | 14.90            | 6.14             | 3.47            |
| 5    | 18     | 2.00      | 1.77                    | 0.375 | 14.90            | 11.28            | 6.38            |
| 6    | 30     | 1.03      | 4.91                    | 0.625 | 41.74            | 11.28            | 2.30            |

Manning's Equation:  
 $Q = 1.49 \text{ in}^3 \cdot A \cdot R^{2/3} \cdot S^{1/2}$

A = Area  
R = D/4  
S = Slope  
n = 0.013

| Basin | Area (sf) | Area (acres) | Treatment A (acres) | Treatment B (acres) | Treatment C (acres) | Treatment D (acres) | 100-Year        |                |          | 10-Year         |                |          |
|-------|-----------|--------------|---------------------|---------------------|---------------------|---------------------|-----------------|----------------|----------|-----------------|----------------|----------|
|       |           |              |                     |                     |                     |                     | Weighted E (in) | Volume (ac-ft) | Flow cfs | Weighted E (in) | Volume (ac-ft) | Flow cfs |
| A     | 58,274    | 1.34         | 0%                  | 0%                  | 0%                  | 0%                  | 1.379           | 0.154          | 4.02     | 0.763           | 0.085          | 2.10     |
| B     | 76,978    | 1.77         | 0%                  | 0%                  | 0%                  | 0%                  | 1.742           | 0.256          | 6.14     | 1.044           | 0.194          | 3.52     |
| C     | 67,145    | 1.54         | 0%                  | 0%                  | 0%                  | 0%                  | 1.636           | 0.210          | 5.14     | 0.962           | 0.124          | 2.88     |
| D     | 13,773    | 0.32         | 0%                  | 0%                  | 0%                  | 0%                  | 1.425           | 0.038          | 0.97     | 0.798           | 0.021          | 0.51     |
|       |           |              |                     |                     |                     |                     | 2.83            |                | 16.27    |                 |                |          |
| Pre   | 216,170   | 4.98         | 0%                  | 0%                  | 0%                  | 0%                  | 0.730           | 0.302          | 10.72    | 0.260           | 0.108          | 4.02     |
| Lot   | 3,330     | 0.08         | 0%                  | 0%                  | 0%                  | 0%                  | 1.581           | 0.010          | 0.25     | 0.804           | 0.006          | 0.14     |

Equations:  
Weighted E = Ea\*Aa + Eb\*Ab + Ec\*Ac + Ed\*Ad / (Total Area)  
Volume = Weighted E \* Total Area  
Flow = Qa\*Aa + Qb\*Ab + Qc\*Ac + Qd\*Ad  
Water Quality Calculation: 0.42" x 2.83 ac = 4.315 cubic feet (0.099 ac-ft)

| Excess Precipitation, E (inches) |          |         | Peak Discharge (cfs/acre) |          |         |
|----------------------------------|----------|---------|---------------------------|----------|---------|
| Zone 1                           | 100-Year | 10-Year | Zone 1                    | 100-Year | 10-Year |
| Ea                               | 0.55     | 0.11    | Qa                        | 1.54     | 0.3     |
| Eb                               | 0.73     | 0.26    | Qb                        | 2.16     | 0.81    |
| Ec                               | 0.85     | 0.43    | Qc                        | 2.87     | 1.46    |
| Ed                               | 2.24     | 1.43    | Qd                        | 4.12     | 2.87    |

City of Albuquerque  
Planning Department  
Development Review Services  
HYDROLOGY SECTION  
APPROVED  
DATE: 5/10/2024  
BY: [Signature]  
HydroTrans # H11D075  
THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSIDERED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM INITIATING ANY CORRECTION, OR ERROR OR OMISSIONS IN PLANS, SPECIFICATIONS OR CONSTRUCTION, SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

TYPICAL WATER QUALITY INLET DETAIL  
NTS

ENGINEER'S SEAL  
RONALD R. BOHANNAN  
NEW MEXICO  
7868  
05/08/24  
RONALD R. BOHANNAN  
P.E. #7868

PLAYA DEL SUR  
COORS AND I40  
GRADING AND DRAINAGE  
PLAN  
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www.tierrowestllc.com  
DRAWN BY AS  
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