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ESC Plan Standard Notes (2021-03-24)

- 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 2017 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 - 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 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.Stabilization reports must be kept by the person or entity authorized to direct the construction activities on the site and made available upon request. Reports should include records of weed removal per City Ordinance (§ 9-8-1), sterilization, soil test results and recommendation, materials and manufacturer's specifications for application rates, estimated functional longevity, methods of application, inspection and maintenance. The reduced self-inspection schedule in CGP 4.4.1 applies to stabilized area and any damaged or worn stabilization must be identified in the reports along with weed problems. Corrective actions for stabilization shall be documented in a stabilization report including actual rates and dates of stabilization, and the materials and manufacturer's specifications used.
- 6.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 and impervious surfaces, 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 approved by the City of Albuquerque prior to removal of BMPs and discontinuation of inspections.



Project Name: La Mirada	Date: 4/10/2024
Property Owner: Twilight Homes	NPDES Permit #: NMR1006BR



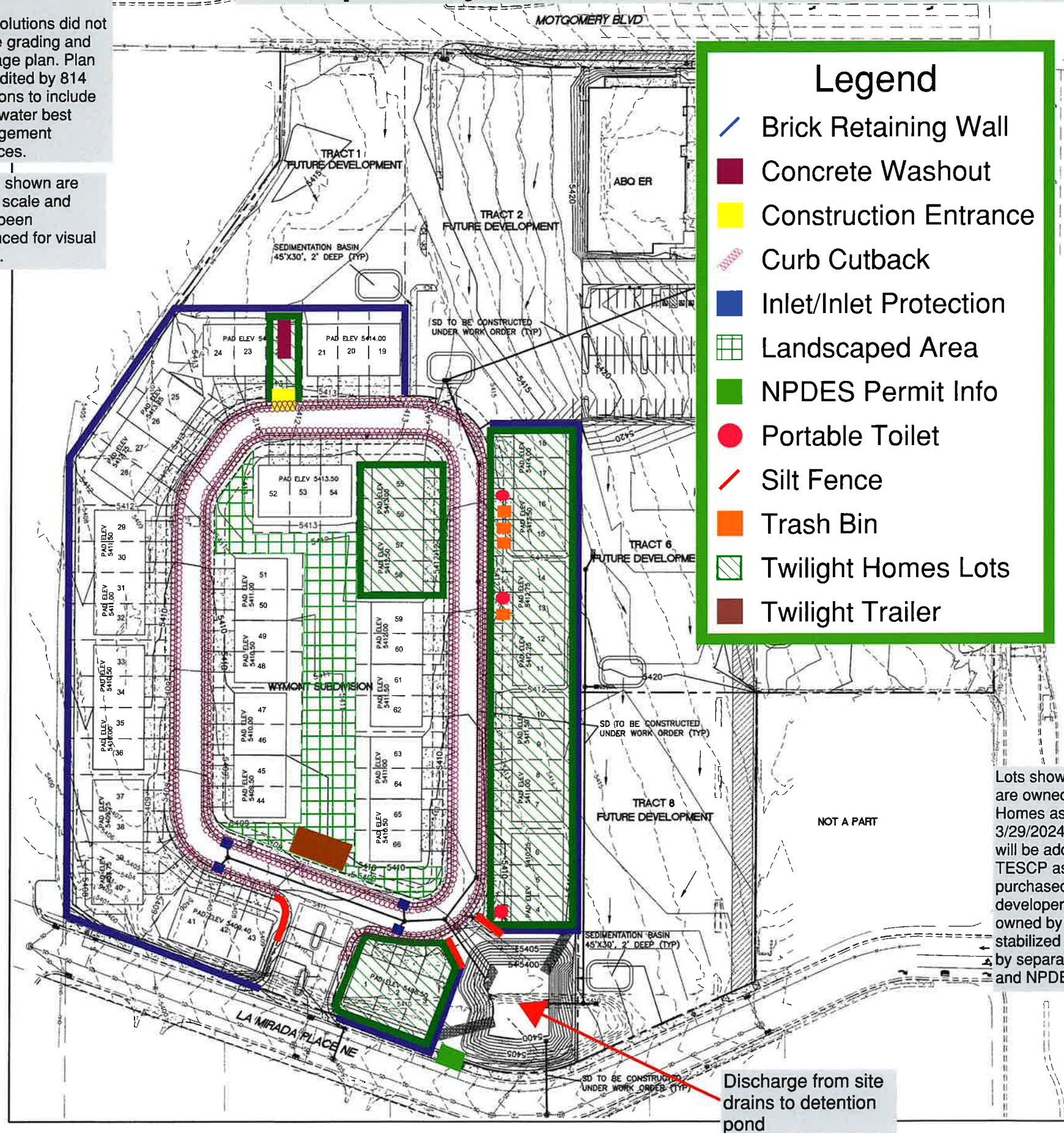
# Temporary Erosion and Sediment Control Plan

RECORD DRAWINGS

## General notes:

814 Solutions did not create grading and drainage plan. Plan was edited by 814 Solutions to include stormwater best management practices.

BMPs shown are not to scale and have been enhanced for visual clarity.



### Legend

- Brick Retaining Wall
- Concrete Washout
- Construction Entrance
- Curb Cutback
- Inlet/Inlet Protection
- Landscaped Area
- NPDES Permit Info
- Portable Toilet
- Silt Fence
- Trash Bin
- Twilight Homes Lots
- Twilight Trailer

### LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- BUILDING
- PROPERTY LINE
- EXISTING CURB & GUTTER
- EXISTING WATERLINE
- EXISTING SAS
- RETAINING WALL
- PAVEMENT TO BE BUILT IN WORK ORDER

#### NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAIL ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1988.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 768-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

#### EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.
6. ALL SLOPES NOT STABILIZED AT THE END OF THE PROJECT SHALL BE STABILIZED IN ACCORDANCE WITH COA SPECS OR 3" GRAVEL.

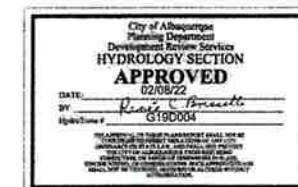
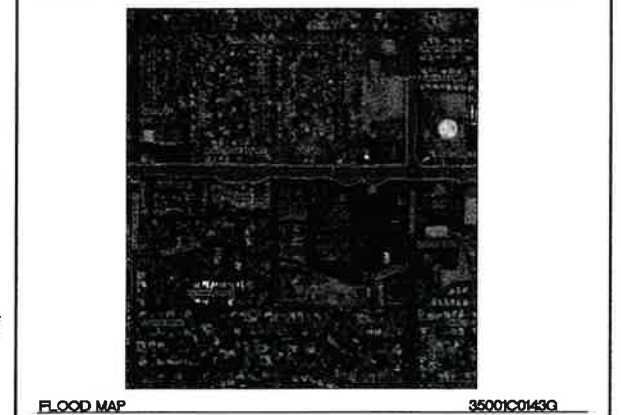
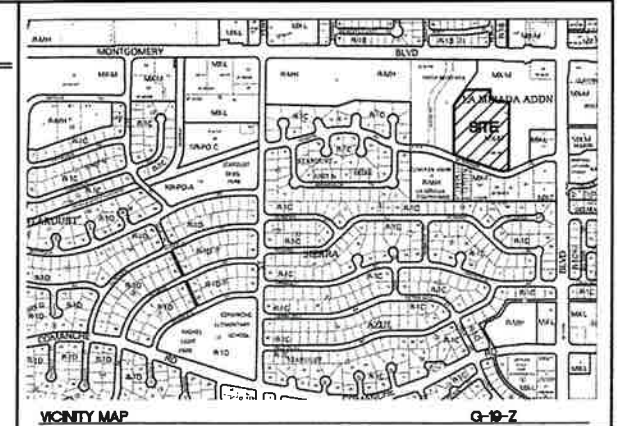
Lots shown on legend are owned by Twilight Homes as of 3/29/2024. New lots will be added to TESCP as they are purchased from developer. Lots not owned by Twilight are stabilized and covered by separate SWPPP and NPDES permit.



#### Soil Information

100% Embudo-Tijeras complex, 0 to 9 percent slopes (Web Soil Survey)

K-Factor: 0.15 (RUSLE)

Slope is 0-9%. Classified as gravelly fine sandy loam to gravelly sandy loam. Well drained with very low runoff potential.



ENGINEER'S SEAL	THE WYMONT ALBUQUERQUE, NM	DRAWN BY pm
		DATE 2-7-2022
		DRAWING
		SHEET #
RONALD R. BOHANNAN 2-7-2022	 <b>TERRA WEST, LLC</b> 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.terrawestllc.com	GR-INT
RONALD R. BOHANNAN 2-7-2022		JOB # 2021008



**Silt Fence**

**Notes:**

1. Wire mesh is not required, but it is recommended as it will help prevent tearing due to increased wind speed or sediment/water load.
2. Pole spacing is not to exceed 10 feet between poles in straight-run sheet flow areas.
3. Pole spacing in a site's lower corners should be spaced approximately 6 feet apart or closer.
4. Silt fence is not created for use in high velocity situations, where flow is heavily concentrated. If concentrated flow does drain toward silt fence, then use additional BMPs to reduce the flow's velocity.
5. Silt fence fabric transition points should have posts interlocked with no gaps in the silt fence coverage.

Source: City of Albuquerque  
Construction Site Manual 2018

**Sediment Control Log (SCL) SC-2**

**Notes:**

1. It is recommended that wattles be trenched into the ground to a depth of approximately 1/3 of the diameter of the log. If trenching to this depth is not feasible or desirable, then a lesser trenching depth may be acceptable with more robust staking. Sandbags may be used on impervious surfaces.
2. Wattles that are 8 lb/ft or more do not need to be trenched.
3. Remove sediment from the upstream side of wattle when sediment accumulation is 1/2 the height of the wattle.
4. For parallel flow past the wattle joints, make sure the upstream wattle is on the interior side of the downstream wattle.
5. Place wattle around stockpiles that are not being worked on or that are on impervious surfaces.

Wattle/Filter Sock/  
Sediment Control Log

Source: Urban Storm Drainage  
Construction Site Manual 2018

**Vehicle Tracking Control (VTC) SM-4**

**Notes:**

1. A stabilized construction entrance/exit shall be located at all access points where vehicles access the construction site from paved right-of-ways.
2. Sediment tracked onto paved roads is to be removed throughout the day and at the end of the day by shoveling or sweeping. Sediment may not be washed down storm sewer drains.
3. Some Vehicle Tracking Controls may need a wheel wash station. When a wheel wash is available, make sure to direct wash water to a sediment trap prior to discharge from the site. Wash water may not contain soaps or chemicals, unless a separate permit is acquired.
4. A metal grate can be used in conjunction with an aggregate track-out pad. The grate should be regularly cleared of sediment, and help prevent track-out.
5. Make sure the Vehicle Tracking Control is not bypassed by the construction traffic.

Vehicle Tracking Control

Source: Urban Storm Drainage  
Construction Site Manual 2018

**Access onto Curbed Sites**

**Notes:**

1. The preferred method to access a site is to cut the curb, so a ramp is not required. Placing curb cut in the same place as future entrance/exit can minimize work.
2. When cutting the curb, the cutting machine uses water, and the byproduct of the process is similar to concrete wash-out. Place byproduct in wash-out container.
3. Laying lumber parallel to curb is an alternative, but this method is not to be used on high speed (35 MPH and greater) roads due to it being a road hazard.
4. Adding cold-mix asphalt with a pipe in the gutter is acceptable, but do not extend asphalt past the gutter into the paved portion of the roadway.
5. Vehicle Tracking Controls are still needed if using a ramp over a curb.
6. Do not use dirt ramps to access sites with curbs, because the dirt can be easily washed into storm drains.
7. **WARNING!** Any injury or property damage to a motorist, cyclist, or pedestrian due to the installation of a ramp is the responsibility of the contractor/property owner.

Source: City of Albuquerque  
Construction Site Manual 2018

**Good Housekeeping**

**Notes:**

1. Regularly collect and dispose of garbage and waste material into designated collection areas.
2. Cover and maintain dumpsters and waste receptacles. Add additional dumpster or increase frequency of waste collection if overflowing conditions occur. Consider secondary containment around waste collection areas to minimize the likelihood of contaminated discharges.
3. Routinely inspect containers and equipment to ensure that it is functioning properly without leaking.
4. Promptly clean up leaks, drips, and other spills. Train employees on proper clean up and spill response procedures.
5. Store containers, drums, and bags away from direct traffic routes to reduce container damage.
6. Store materials in accordance with directions in Material Safety Data Sheets (MSDSs).
7. Store containers on pallets or similar devices to prevent corrosion of containers that results from containers coming into contact with moisture on the ground.
8. Store toxic or hazardous liquids within curbed areas or secondary containments.
9. Frequent and proper training in good housekeeping techniques reduces the likelihood that chemicals or equipment will be mishandled.
10. Segregate and provide proper disposal options for hazardous material wastes.
11. Make sure the site has a Spill Protection Plan, Spill kit, and individuals trained on the location and workings of the plan and kit.
12. Create a designated on-site fueling and maintenance area that is clean and dry, has a spill kit, and ideally in a covered area.
13. Locate toilet facilities away from storm drain inlets and waterways to prevent accidental contamination of stormwater.
14. or outdoor painting and sanding; conduct these operations in designated areas that are paved or have a secondary containment in place. Clean up and dispose of excess paint, paint chips, protective coatings, grit waste, etc.
15. Provide tie-downs or stake downs for portable toilets.
16. For vehicle and equipment washing; ensure there is no discharge of soaps, solvents, or detergents in equipment and vehicle wash water.
17. Recycle materials whenever possible (e.g. paper, wood, concrete, oil).

Source: Urban Storm Drainage  
Construction Site Manual 2018

**Inlet Protection Part 1**

**Notes:**

1. The proper inlet protection shall be used and maintained to prevent sediment and wastes from entering a stormwater drainage system and shall minimize the risk of flooding.
2. The type of inlet protection utilized shall depend on the inlet type, slope, and volume of flow.
3. For inlets with a throat opening and a grate, the inlet shall be protected with a BMP that covers the throat and the grate.
4. For throat type of inlet protection, sediment shall not be higher than halfway up the BMP.
5. For mat type and one-piece style of BMP, more than 50% of the inlet protection must be clear of sediment and debris.
6. The inlet protection shall be able to let water drain through.
7. **WARNING!** Any injury or property damage to a motorist, cyclist, or pedestrian due to the installation of inlet protection is the responsibility of the contractor/property owner. Try using a mat-type inlet protection to reduce possible road hazards.
8. Make sure inlet protection is secured in place, and will not be moved by stormwater.

Source: City of Albuquerque  
Construction Site Manual 2018

**Inlet Protection Part 2**

**Notes:**

10. Inlet protection constructed of silt fence surrounding the inlet may be used when the inlet is surrounded by stake-able dirt.
11. Inlet protection should be used for inlets/storm drains within the construction site/disturbed area, AND any inlets/storm drains outside the project area that may receive stormwater discharges from the construction site/disturbed area.
12. Open storm drains are considered an inlet and require protection. This also includes drains that are not actively being worked on.

Source: City of Albuquerque  
Construction Site Manual 2018

**Curb Cutbacks**

**Notes:**

1. Curb cutback is implemented when the construction project utilizes the removed section of pavement and uses the depression of the curb as a temporary containment to collect sediment before reaching a storm drain.
2. For curb cutback, excavate soil from behind the curb, sidewalk, or roadway at least 3-4 inches down from the top of the hardscape. Site conditions may allow for increase in capacity.
3. Curb cutting machines use water and therefore drainage is present and shall be treated as a non-stormwater discharge like concrete washout water.
4. Maintenance and Inspection:
  - Inspect sediment traps/curbs before, during, and after rainfall events and weekly year-round. During extended rainfall events, inspect sediment traps at least every 24 hours.
  - Inspect as part of regularly scheduled SWPPP inspection schedule
  - Clean out excess sediment discharges as required
  - Allow sediment laden water to infiltrate before cleaning

Source: City of Albuquerque  
Construction Site Manual 2018

**Arroyo and Channel Construction**

**Notes:**

1. When working in or adjacent to an arroyo or concrete channel, loose soil shall not be stockpiled or left in the low-flow area of the arroyo or channel. A berm or a similar BMP is to be constructed to divert flow into a low-flow area.
2. When working in or adjacent to an arroyo or concrete channel, pollutants (chemicals, debris, waste, etc.) shall not be left in the low-flow area of the arroyo or channel.
3. If there are active storm drains in the work zone, an energy dissipator is to be constructed at the pipe outfall to slow the velocity of the stormwater to less than 3 ft/sec at the end of the dissipator. A plunge pool constructed of large aggregate is the most common energy dissipator.
4. If there is an arroyo or channel draining into the work zone, an energy dissipator is to be constructed upstream of the confluence to slow the velocity of the stormwater to less than 3 ft/sec at the end of the dissipator. There are equations provided by the United States Bureau of Reclamation (USBR) and the Federal Highway Administration (FHWA) for sizing the energy dissipator and the aggregate.
5. If working adjacent to an arroyo or concrete channel, install BMPs to protect against or filter stormwater entering the drainage.

Source: City of Albuquerque  
Construction Site Manual 2018

**Wash-outs**

**Notes:**

1. Designated wash-out areas shall be provided for any concrete, stucco, mortar, or paint operations. Wash-outs should be as far away as possible from waters of the U.S., stormwater inlets, or conveyances.
2. "Wash-out shall be directed to leak-proof containers or leak proof and lined pit designed so that no overflows can occur due to inadequate sizing or precipitation." - OGP 2022
3. If the concrete/stucco/mortar is firm when it contacts the soil, then it is not considered wash-out (not wet enough to infiltrate into the soil).
4. A centralized wash-out may be effective for concrete trucks. For stucco, mortar, and paint wash-outs, a local wash-out and wash-out education has been more successful in avoiding improper wash-outs.
5. Mortar towers shall have a plastic liner beneath them to prevent the wet mortar from contacting the soil. If wet stucco or mortar contacts the ground due to mixing, it would be a compliance issue.
6. If a wash-out occurs on bare soil, the Operator is expected to remove it same day. The wash-out material, as well as the wetted soil, are to be removed and disposed of appropriately.

Source: City of Albuquerque  
Construction Site Manual 2018

# BMP Information Sheet



Project Name: La Mirada	Date: 4/10/2024
Property Owner: Twilight Homes	NPDES Permit #: NMR1006BR



# Project Roles and Responsibilities

## Owner/Operator Information

Site Owner: Twilight Homes  
Contact: Tim McNaney  
505 975-1154  
tmcnaney@twilighthomesnm.com

## Stormwater Team: 814 Solutions

Contact: Gaylen Barnett (Environmental Compliance Manager)  
505 382-4828  
gaylen@814solutions.com

2nd Contact: Eric Maez (Inspector/BMP Installation Manager)  
505 401-7843  
eric@814solutions.com

## Project Information:

Expected activities (including but not limited to):

- Homebuilding construction activities
- Concrete and concrete washout
- Landscaping

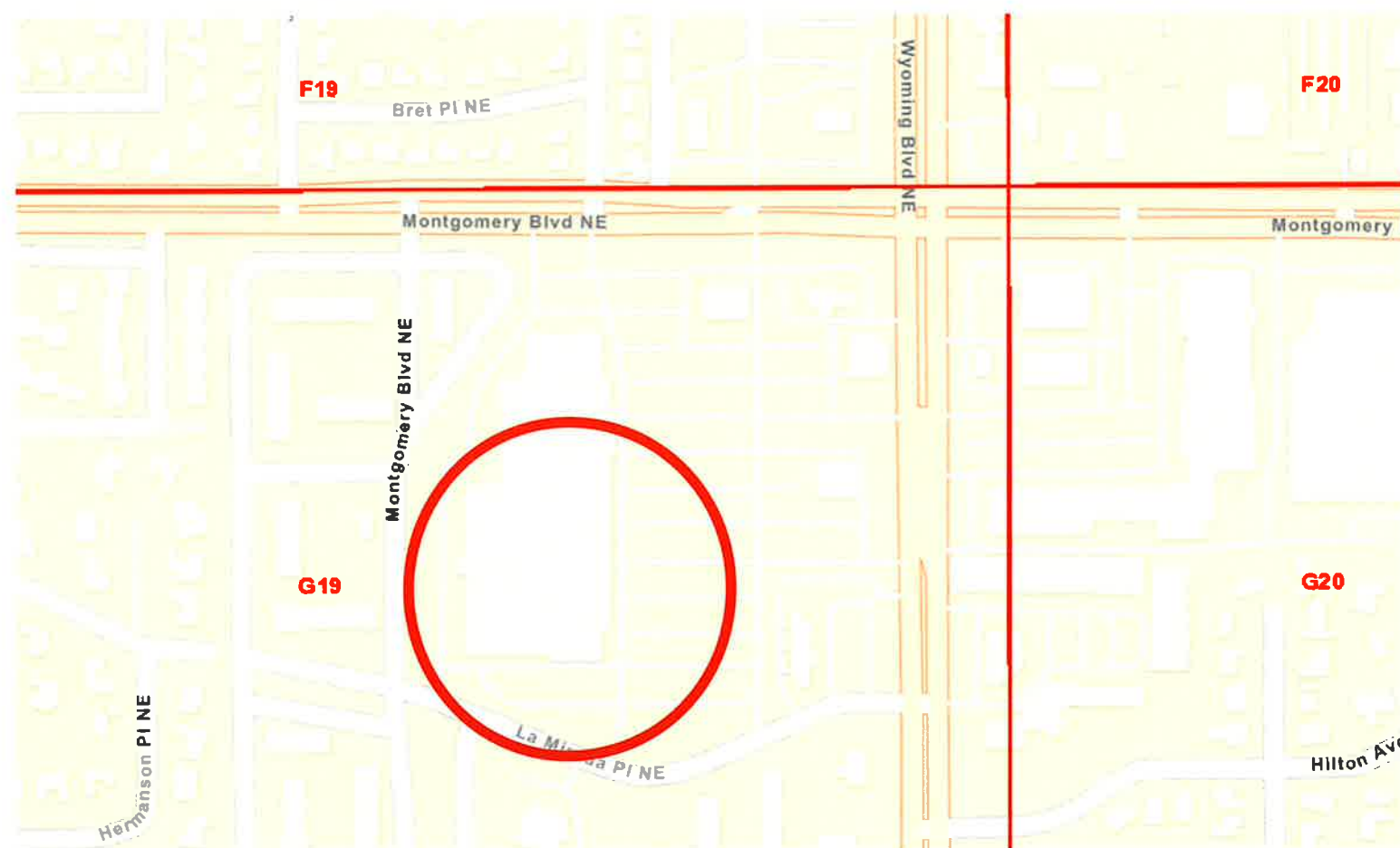
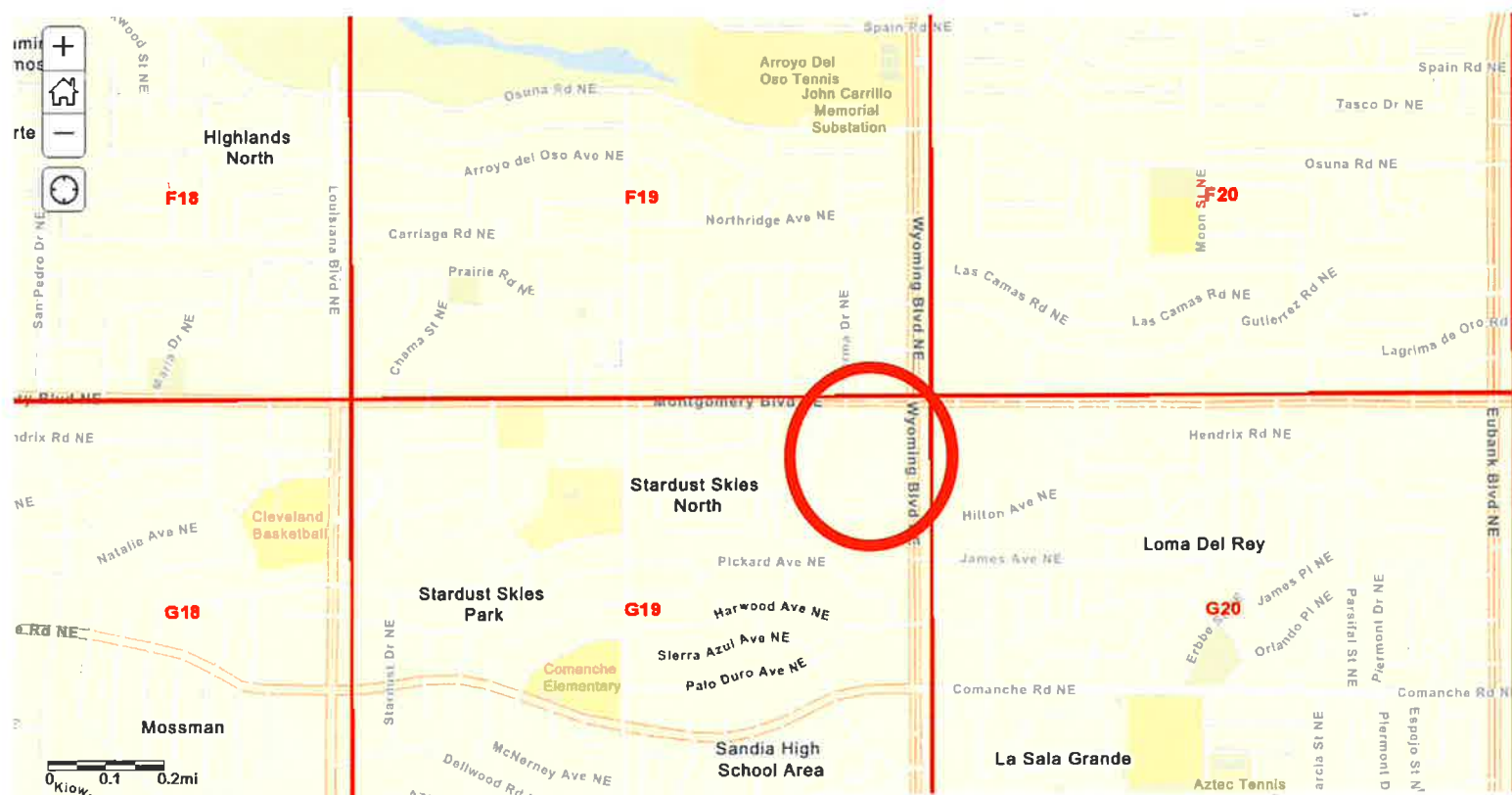
Twilight Homes owns 23 lots (lots 1-18, 22, 55-58) and will continue buying lots in the La Mirada subdivision. The lots have been developed by AMREP who has separate SWPPP and NPDES permit coverage. The TESCPS for both contractors shall be updated as lots are bought / sold and updated with lot and BMP changes.

## BMP information:

Most of the perimeter has a brick retaining wall installed. Silt fence and curb cutbacks are installed where shown on TESCPS. A stabilized construction entrance is installed on lot 22 where the concrete washout is constructed. The project shall be monitored daily to ensure BMPs are functional. If sediment trackout is observed, street sweeping shall be implemented. No significant slopes/drop-offs exist.



Project Name: La Mirada	Date: 4/10/2024
Property Owner: Twilight Homes	NPDES Permit #: NMR1006BR



## Zone Atlas Map G 19

