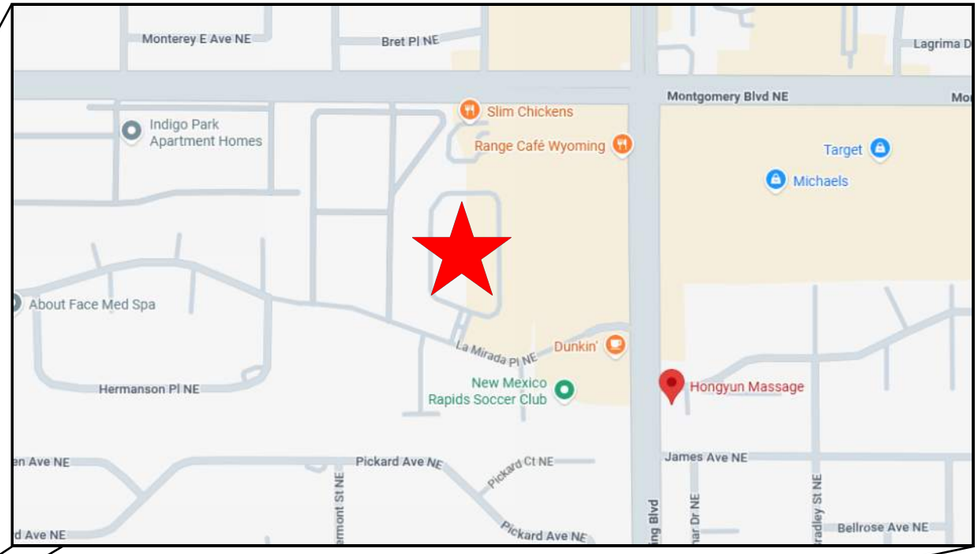
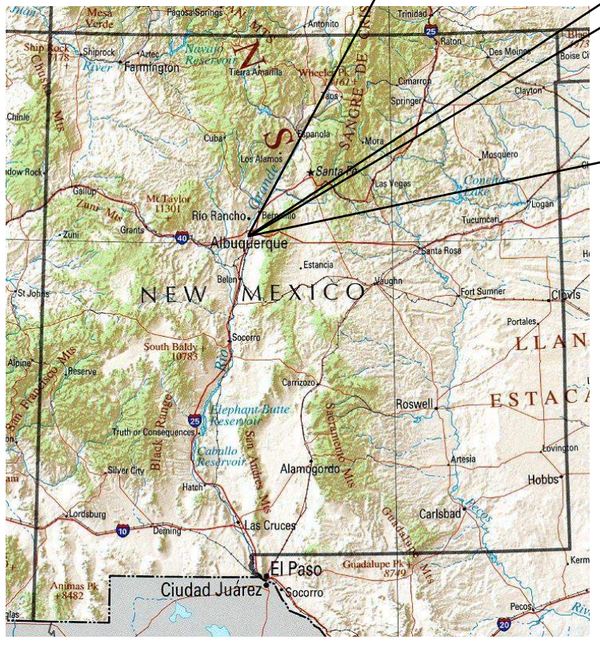
LA MIRADA SUBDIVISION

TEMPORARY SEDIMENT AND EROSION CONTROL DRAWINGS

ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO

DRAWING INDEX





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

KELLEY VINCENT FETTER
NEW MEXICO
13450
REGISTERED PROFESSIONAL ENGINEER
12/16/2025

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#	REVISION ITEM	DATE

STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
ALBUQUERQUE, NM

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
O. CHAVEZ

SHEET:
1- COVER

PROJECT DETAILS

NPDES ID: NMR1007OD

ADDRESS: WYMONT CIRCLE NE, ALBUQUERQUE, NM 87109

GPS COORDINATES: 35.128948, -106.55333

TOTAL ACREAGE: 7.08

ANTICIPATED DISTURBED ACREAGE: 1.67

FIRST RECEIVING WATER: RIO GRANDE

WATERS WITHIN ONE MILE OF PROJECT: HAHN ARROYO, NORTH DIVERSION CHANNEL, RIO GRANDE

IMPAIRED/TIERED WATERS: RIO GRANDE

ENDANGERED SPECIES: CRITERION A

SUPPORT ACTIVITIES: SEE SECTION 3.6 OF SWPPP NARRATIVE

SOIL TYPE: SEE NRCS SOIL REPORT PROVIDED IN SWPPP BINDER

TYPE PRE-CONSTRUCTION COVER: INFRASTRUCTURE DEVELOPMENT, ROADS, SIDEWALKS, LANDSCAPING

STABILIZATION MEASURES AND DEADLINES: SEE SECTION 6.0 OF SWPPP NARRATIVE

REGULATING AUTHORITY: ENVIRONMENTAL PROTECTION AGENCY (EPA)

OPERATORS

PROPERTY OWNER:
STILLBROOKE HOMES, INC.
8801 JEFFERESON NE BLDG A
ALBUQUERQUE, NM 87113

OWNER CONTACT:
CHRIS KELSEY
(505) 858-1800
CKELSEY.CLEARBROOK@STILLBROOKE.COM

GENERAL CONTRACTOR (GC):
STILLBROOKE HOMES, INC.
8801 JEFFERESON NE BLDG A
ALBUQUERQUE, NM 87113

GC CONTACT:
CHRIS KELSEY
(505) 858-1800
CKELSEY.CLEARBROOK@STILLBROOKE.COM

STORMWATER TEAM

SEE SECTION 2.0 OF THE SWPPP NARRATIVE FOR THE PROJECT'S STORMWATER TEAM, RESPONSIBILITIES AND CONTACT INFORMATION

SEQUENCE OF ACTIVITIES

REFER TO THE ANTICIPATED CONSTRUCTION SCHEDULE INCLUDED WITH THE SWPPP BINDER

PHASE I: SITE PREPARATION AND PRE – CONSTRUCTION

1.PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES, THE OPERATOR(S) WILL CLEARLY DEMARCATE THE LIMITS OF DISTURBANCE WITH STAKES, RIBBONS, CONSTRUCTION FENCING, OR OTHER APPROPRIATE METHOD. THESE DEMARCATIONS SHALL REMAIN VISIBLE FOR THE DURATION OF THE PROJECT.

2.THE INITIAL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EARTH DISTURBANCE. THE INITIAL CONTROL MEASURES MAY INCLUDE BUT ARE NOT LIMITED TO:

a.PERIMETER CONTROLS (E.G., SILT FENCE, WATTLES, CONSTRUCTION FENCE)
b.VEHICLE TRACKING PAD IF THE SITE ENTERS/EXITS ONTO A PAVED PUBLIC ROADWAY
c.NPDES NOTIFICATION POSTING
d.DESIGNATED STAGING AREA
e.ANCHORED SANILETS
f.DUMPSTERS

PHASE II: CONSTRUCTION ACTIVITIES

1.THE OPERATORS WILL MINIMIZE THE AREA DISTURBED AS MUCH AS FEASIBLY POSSIBLE.

2.ANY DISTURBED AREA IN WHICH CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED SHALL TEMPORARILY STABILIZED USING THE METHODS DESCRIBED IN SECTION 6.4 OF THE SWPPP NARRATIVE. SECTION 6.3 OF THE SWPPP NARRATIVE PROVIDES THE TEMPORARY STABILIZATION DEADLINES.

3.THE LOCATION OF SOME BMPS MAY REQUIRE ALTERATION IF DRAINAGE PATTERNS CHANGE DURING CONSTRUCTION. THE OPERATORS SHALL INSTALL ADDITIONAL BMPS OR UPGRADE BMPS IF NECESSARY.

4.IF CONCRETE IS USED ONSITE AND CONCRETE TRUCKS ARE UNABLE TO WASHOUT OFFSITE, THE OPERATORS WILL PROVIDE ONE OR MORE DESIGNATED CONCRETE WASHOUT AREAS. THE CONCRETE WASHOUTS MUST BE INSTALLED PRIOR TO CONCRETE USE ONSITE AND REMOVED ONLY AFTER CONCRETE WORK IS COMPLETE.

PHASE III: FINAL STABILIZATION AND CONSTRUCTION COMPLETION

1.IF APPLICABLE, REVEGETATION OR LANDSCAPING SHALL BE INITIATED IMMEDIATELY UPON KNOWING WORK IN A DISTURBED AREA HAS PERMANENTLY STOPPED AND THE AREA IS NOT COVERED BY PERMANENT STRUCTURES, UNLESS INFEASIBLE. SECTION 6.5 OF THE SWPPP NARRATIVE DISCUSSES PERMANENT STABILIZATION AND ASSOCIATED DEADLINES.

2.THE OPERATORS SHALL REMOVE TEMPORARY BMPS ONLY AFTER FINAL STABILIZATION IS COMPLETE.

KELLEY VINCENT FETTER
NEW MEXICO
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STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
SWPPP NOTES

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
O. CHAVEZ

SHEET:
2 - SWPPP NOTES

GENERAL NOTES

THE NPDES COMPLIANCE SWPPP DRAWING AND ASSOCIATED 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 (JUNE 16, 2023):

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 2022 CONSTRUCTION GENERAL PERMIT (CGP); AND
THE CITY OF ALBUQUERQUE CONSTRUCTION BMP MANUAL

ALL BEST MANAGEMENT PRACTICES (BMPS) 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.

SEE SECTION 3.5 OF THE SWPPP NARRATIVE OR THE CONTRACTOR'S SCHEDULE FOR BMP SCHEDULING OR PHASING.

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.

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.

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 "DETERMINE AS STABILIZED BY THE CITY:. THE PROPERTY OWNER/OPERATOR IS RESPONSIBLE FOR DETERMINING WHEN THE "CONDITIONS FOR TERMINATION CGP COVERAGE" PER CGP PART 8.2 ARE SATISFIED AND THE FOR FILING THEIR NOT WITH THE EPA. EACH OPERATOR MAY TERMINATE GCP 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.

WHEN DOING WORK IN THE CITY RIGHT-OF-WAY (E.G., SIDEWALK, DRIVE PADS, UTILITIES, ETC.) PREVENT SEDIMENT FROM ENTERING THE STREET. IF SEDIMENT IS PRESENT IN THE STREET, THE STREET SHOULD BE SWEPT DAILY OR PRIOR TO A RAIN EVENT OR CONTRACTOR INDUCED WATER EVENT (E.G. CURB CUT OR WATER TEST).

WHEN CUTTING THE STREET FOR UTILITIES, THE SEDIMENT SHALL BE PLACED ON THE UPHILL SIDE OF THE STREET CUT AND THE AREA SWEPT AFTER 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.

EROSION AND SEDIMENT CONTROL (ESC) PLANS MUST SHOW LONGITUDINAL STREET SLOPE AND STREET NAMES. ON STREETS WHERE THE LONGITUDINAL SLOPE IS STEEPER THAN 2.5%, WATTLES OR MULCH SOCKS OR J-HOOKED SILT FENCE SHALL BE SHOWN IN THE FRONT YARD SWALE OR ON THE SIDE OF THE STREET.

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STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
SWPPP NOTES

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
O. CHAVEZ

SHEET:
3 - GENERAL NOTES

LOT PURCHASE LOG

Lot #	Owner	Sale Date
2	Stillbrooke Homes, Inc.	6/5/2025
3	Stillbrooke Homes, Inc.	6/5/2025
4	Stillbrooke Homes, Inc.	6/5/2025
5	Stillbrooke Homes, Inc.	6/5/2025
6	Stillbrooke Homes, Inc.	6/5/2025
15	Stillbrooke Homes, Inc.	6/5/2025
16	Stillbrooke Homes, Inc.	
17	Stillbrooke Homes, Inc.	
18	Stillbrooke Homes, Inc.	
19	Stillbrooke Homes, Inc.	
20	Stillbrooke Homes, Inc.	
21	Stillbrooke Homes, Inc.	
22	Stillbrooke Homes, Inc.	
23	Stillbrooke Homes, Inc.	
24	Stillbrooke Homes, Inc.	
55	Stillbrooke Homes, Inc.	
56	Stillbrooke Homes, Inc.	
57	Stillbrooke Homes, Inc.	
58	Stillbrooke Homes, Inc.	
59	Stillbrooke Homes, Inc.	
60	Stillbrooke Homes, Inc.	
61	Stillbrooke Homes, Inc.	
62	Stillbrooke Homes, Inc.	

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STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
LOT SALE LOG

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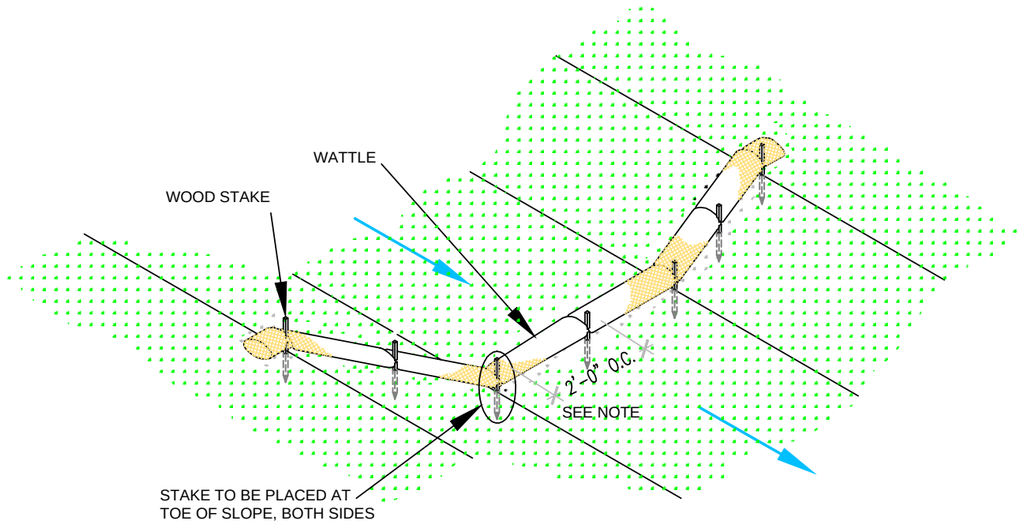
K. FETTER, P.E.
DRAWN BY:
S. FETTER

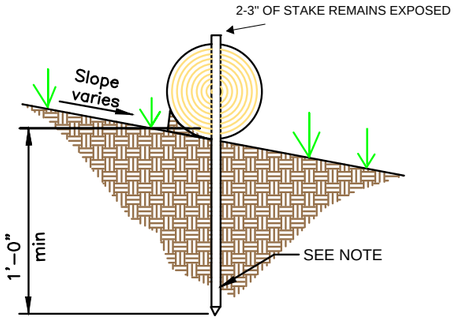
SHEET:
4 - LOT SALES

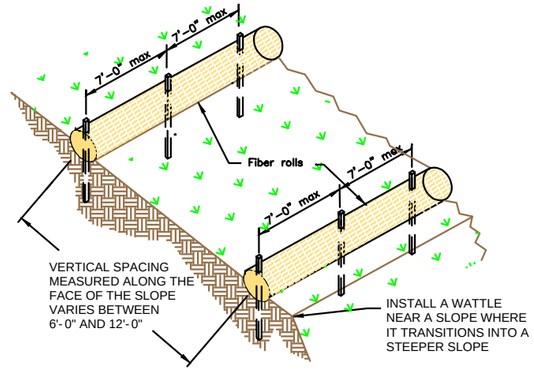


WATTLE
WITHOUT BLANKET

NTS

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





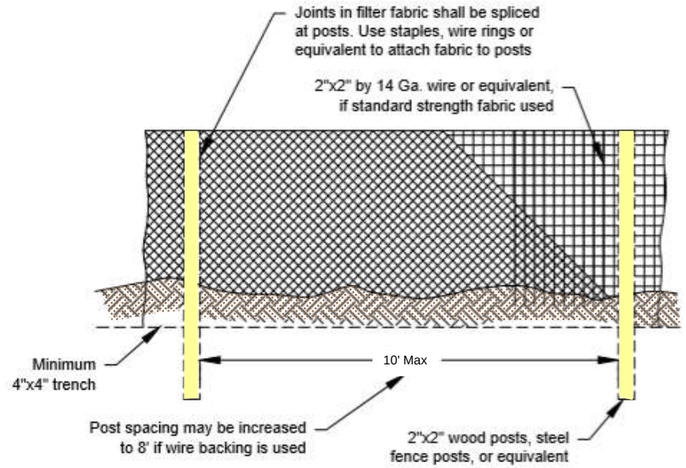
WATTLE

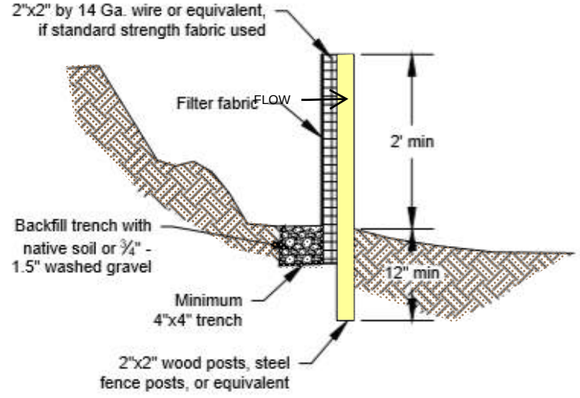
NTS

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.

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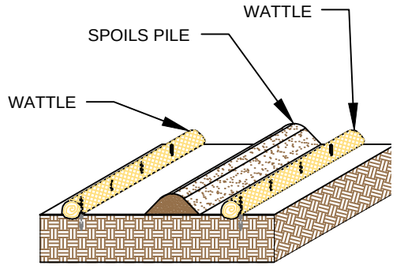


SPOILS PILE PROTECTION

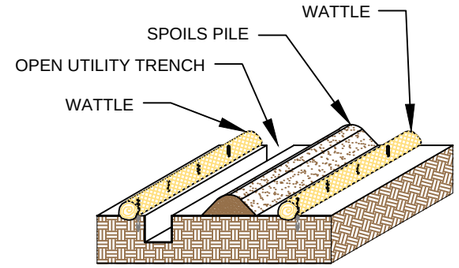
NTS

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

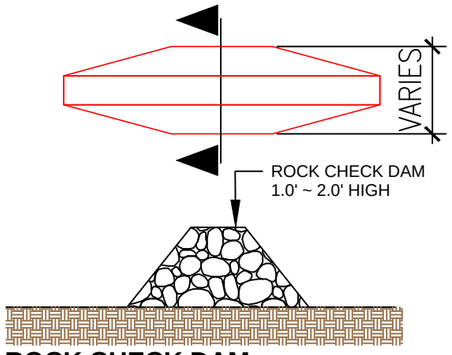
NTS

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.



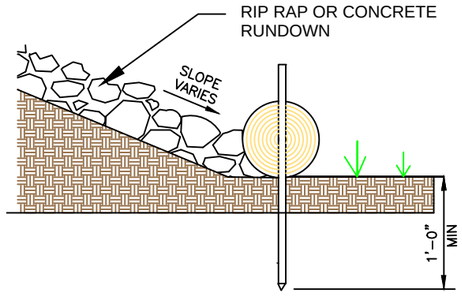
ROCK CHECK DAM

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

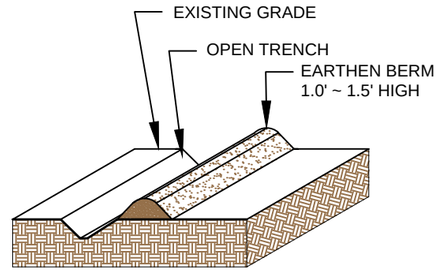
NTS

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.

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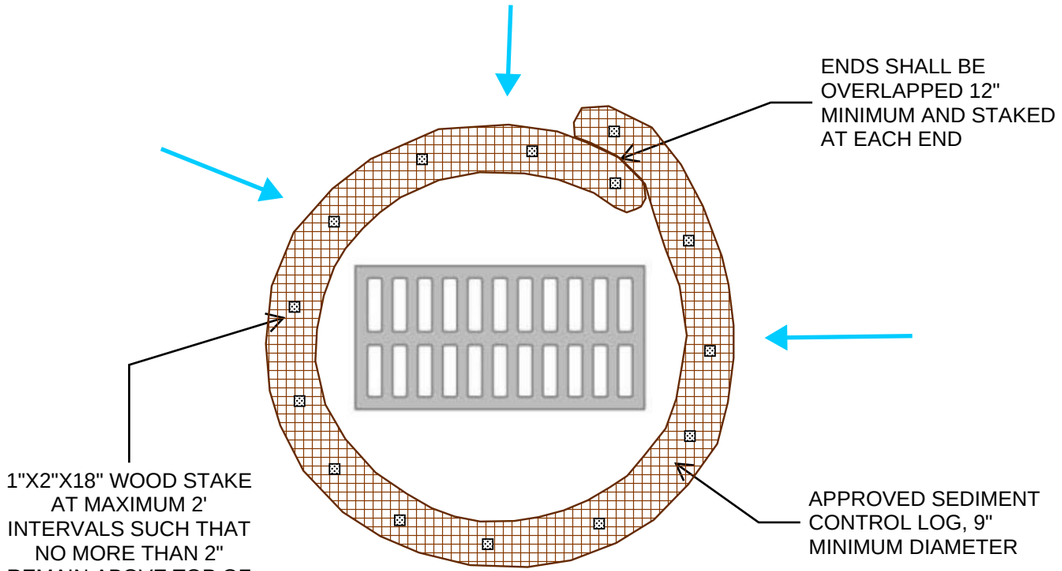
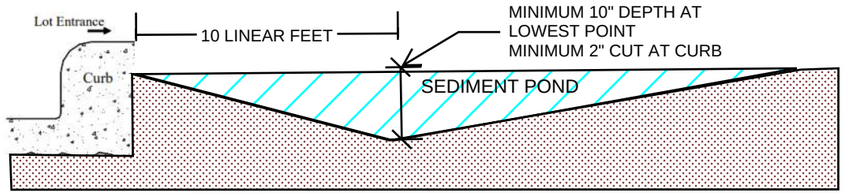
DRAWN BY:
O. CHAVEZ

SHEET:
6



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.

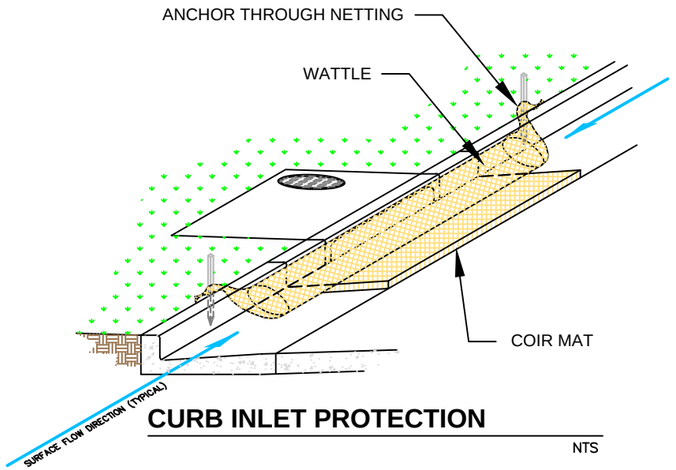
IF THE HOUSE PAD HAS BEEN STABILIZED, THE DEPTH OF THE SEDIMENT POND MAY BE REDUCED TO 4 INCHES.

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.

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DRAWN BY:
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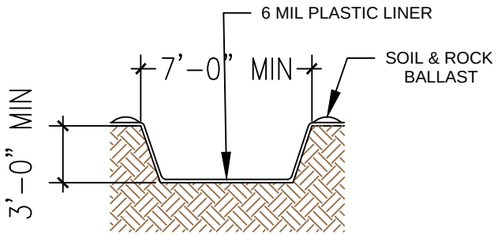
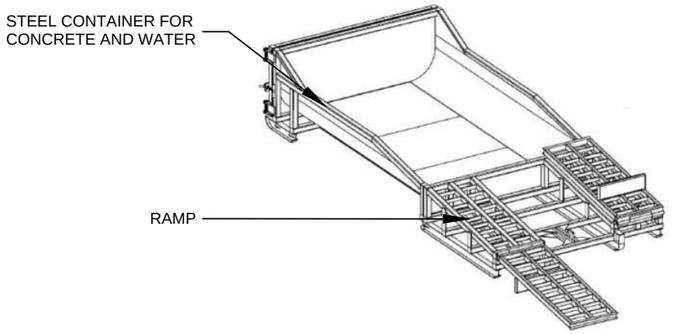
SHEET:
7



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.

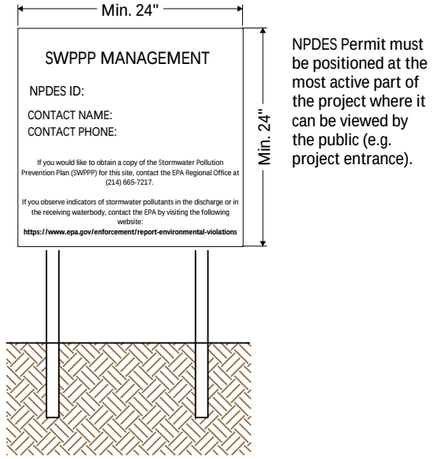
DO NOT WASH SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO THE STREET, STORMDRAIN SYSTEMS OR OFF THE PROJECT SITE.

PORTABLE TOILET STAKING

NTS

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

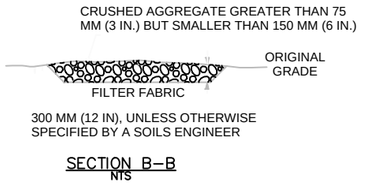
DRIVE THE STAKES OVER THE SKIDS OF THE PROTABLE TOILET, AROUND ALL SIDES.



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).

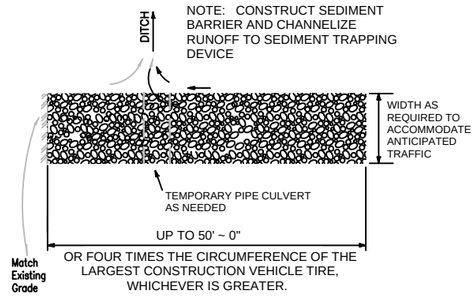
NPDES POSTING BOARD

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
- 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

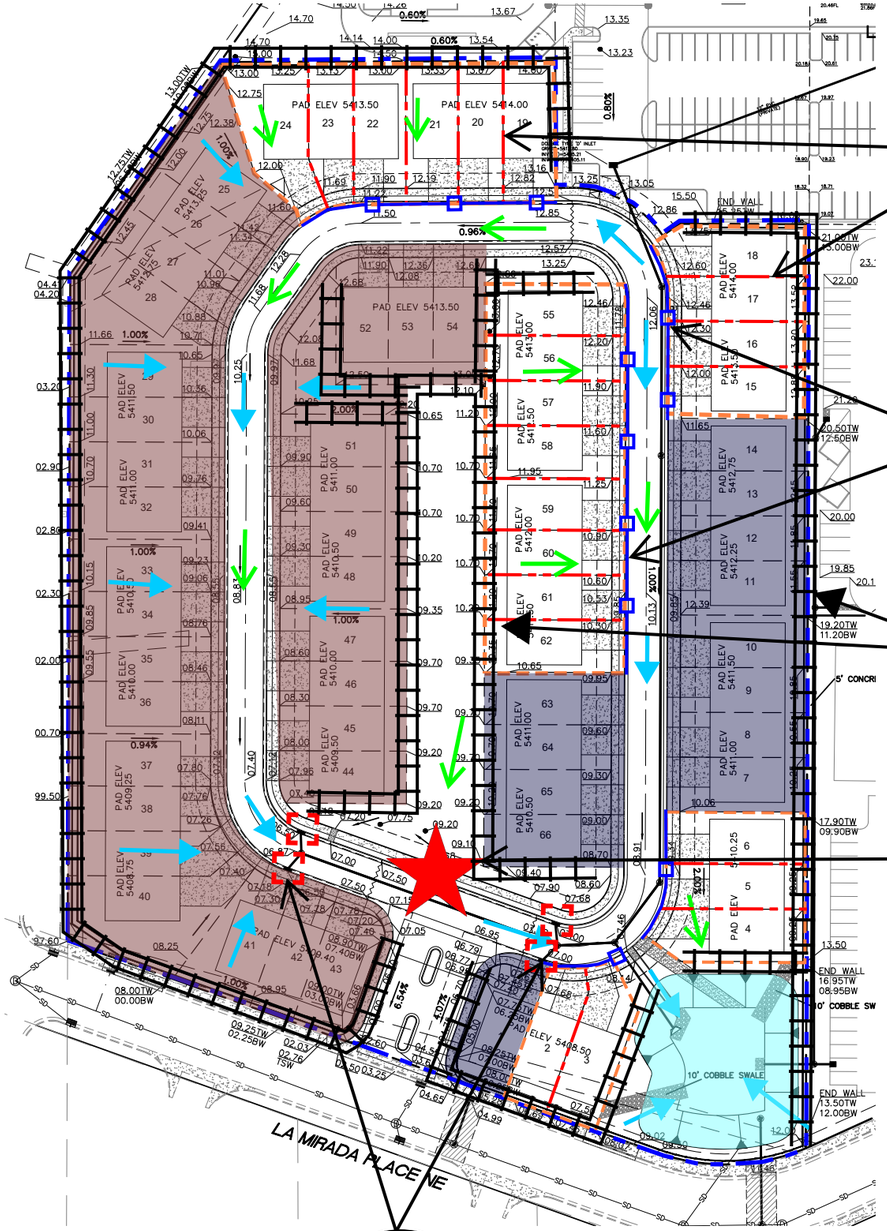
CERTIFIED PROFESSIONAL CPSWQ® IN STORM WATER QUALITY®

#	REVISION ITEM	DATE

STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
BMP DETAILS

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
O. CHAVEZ

SHEET:
8



EARTHEN BERM

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE

CUTBACK CURB

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE

RETAINING WALL

NPDES PERMITTING

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE

INLET PROTECTION

IMPLEMENTATION	
BMP INSTALL	BMP REMOVE

NPDES ID: NMR1006BR, TWILIGHT HOMES, LLC

NPDES ID: NMR10040Z, AMREP SOUTHWEST, INC.

N

OPERATOR OVERSITE:
THE HIGHLIGHTED LOTS ARE MANAGED AND THE RESPONSBILITY OF THEIR RESPECTIVE PROPERTY OWNER. THE REMAINING LOTS WILL BECOME THE RESPONSIBILITY OF STILLBROOKE HOMES, INC. UPON SALE.

SEDIMENT TRACK - OUT MANAGEMENT:
STILLBROOKE HOMES, INC. WILL SWEEP AS NEEDED TO REMOVE SEDIMENT TRACK - OUT IN LIEU OF INSTALLED A TEMPORARY SEDIMENT TRACKING PAD.

BMP MAINTENANCE:
EACH OPERATOR IS RESPONSIBLE FOR THE BMP MAINTENANCE AND SWPPP COMPLIANCE/IMPLEMENTATION FOR THEIR RESPECTIVE LOTS AS HIGHLIGHTED ON THIS SHEET.

DROP INLET IMPLEMENTATION & MAINTENANCE:
STILLBROOKE HOMES, INC. IS RESPONSIBLE FOR THE DROP INLET PROTECTION AND MAINTENANCE.

INSPECTIONS:
STILLBROOKE HOMES, INC. INSPECT ITS LOTS ONLY. THE ADDITIONAL OPERATORS WILL COMPLETE SEPARATE INSPECTIONS SPECIFIC TO THEIR PROPERTY OWNERSHIP.

RETAINING WALL:
RETAINING WALLS WERE PREVIOUSLY CONSTRUCTED.

ELEVATION NOTE:
ADD 5400 TO ALL ELEVATIONS.
ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE SPECIFIED.

0' 100' 200'

KELLEY VINCENT FETTER
NEW MEXICO
13450
REGISTERED PROFESSIONAL ENGINEER
12/16/2025

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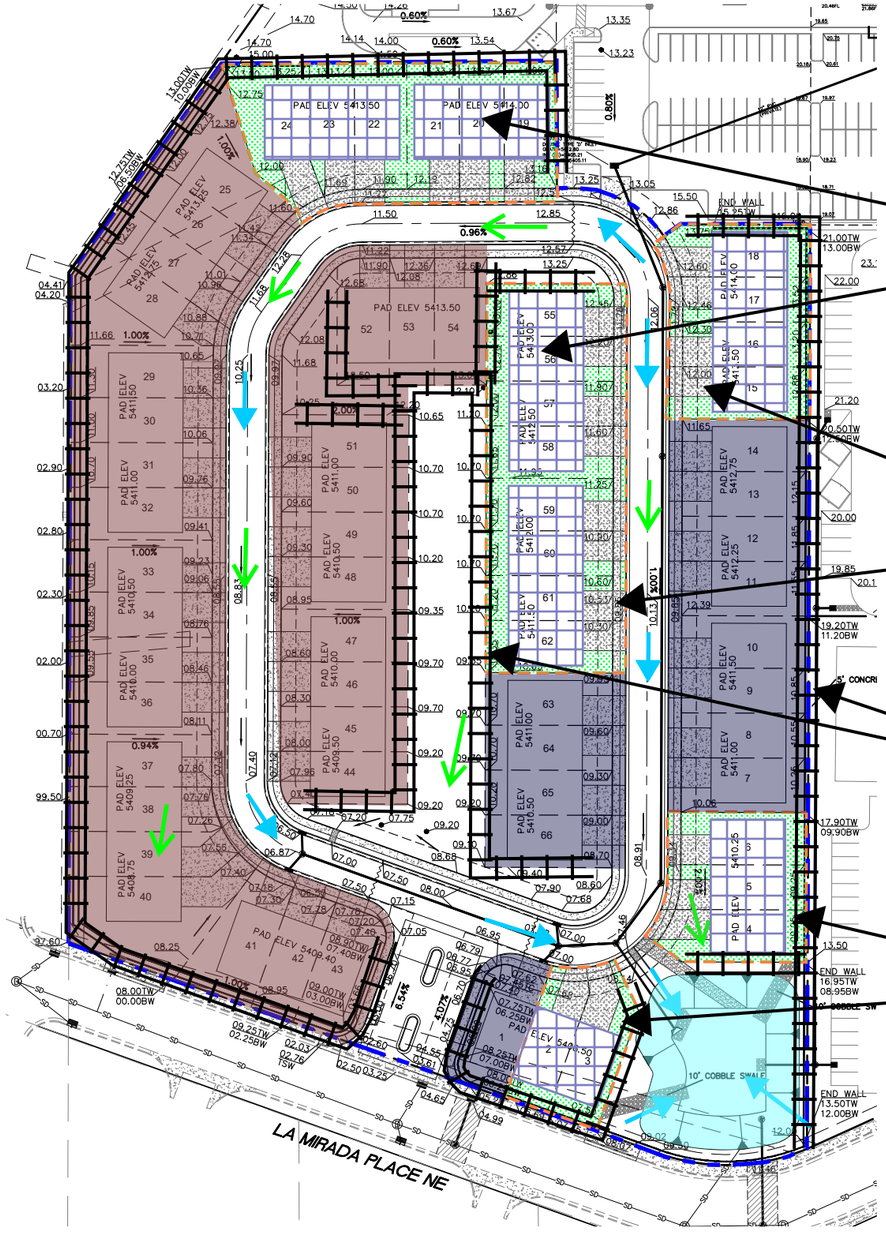
CERTIFIED PROFESSIONAL CPSWQ® IN STORM WATER QUALITY®

#	REVISION ITEM	DATE

STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
TESCP

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
O. CHAVEZ

SHEET:
9



VERTICAL STRUCTURE

FINAL STABILIZATION

CONCRETE PAVING

FINAL STABILIZATION

RETAINING WALL

LANDSCAPING BY HOMEOWNERS

FINAL STABILIZATION

RETAINING WALL:

RETAINING WALLS WERE PREVIOUSLY CONSTRUCTED.

N

0' 100' 200'

NPDES ID: NMR1006BR, TWILIGHT HOMES, LLC

NPDES ID: NMR10040Z, AMREP SOUTHWEST, INC.

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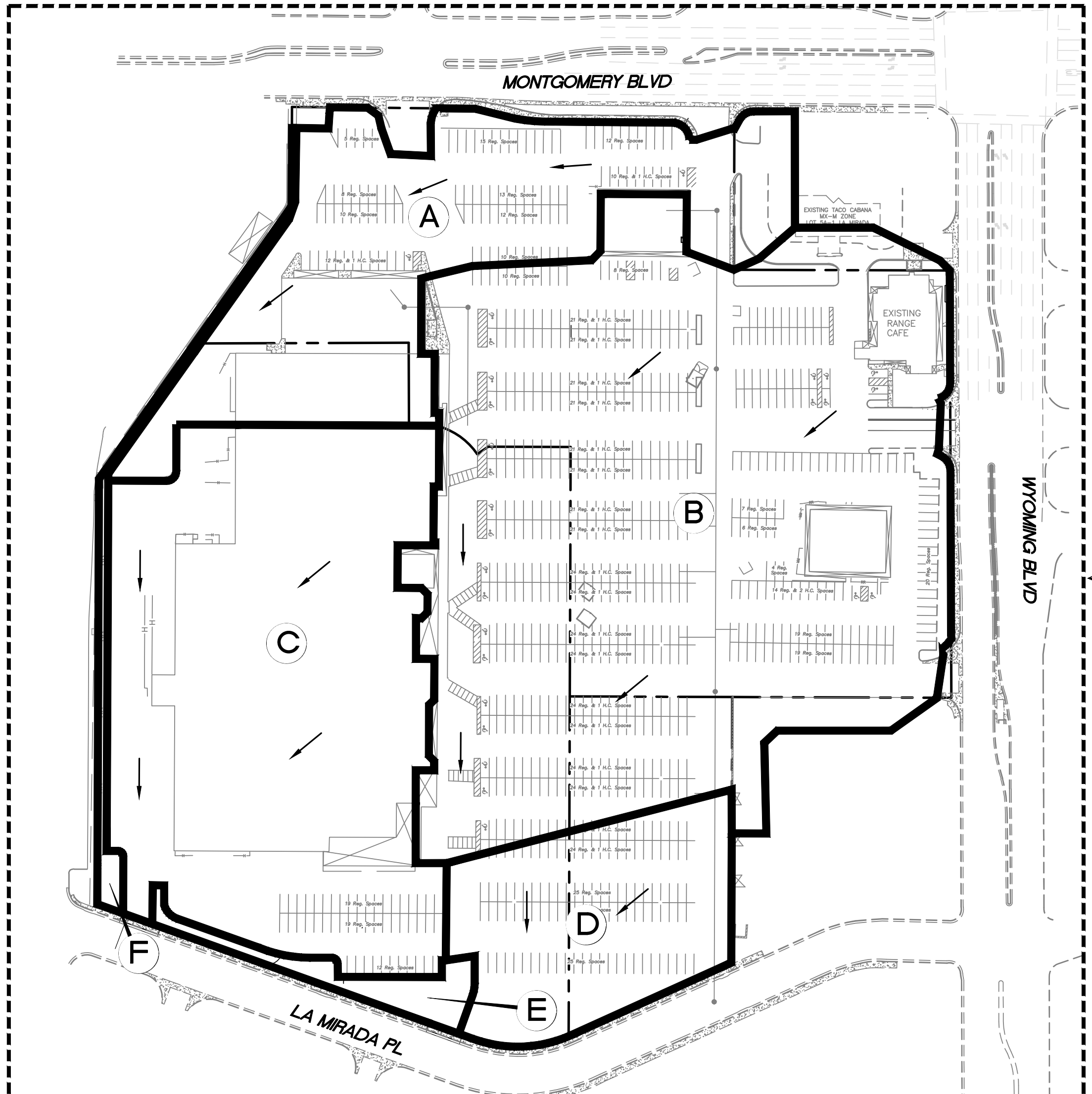
CERTIFIED PROFESSIONAL IN STORM WATER QUALITY
CPSWQ®

#	REVISION ITEM	DATE

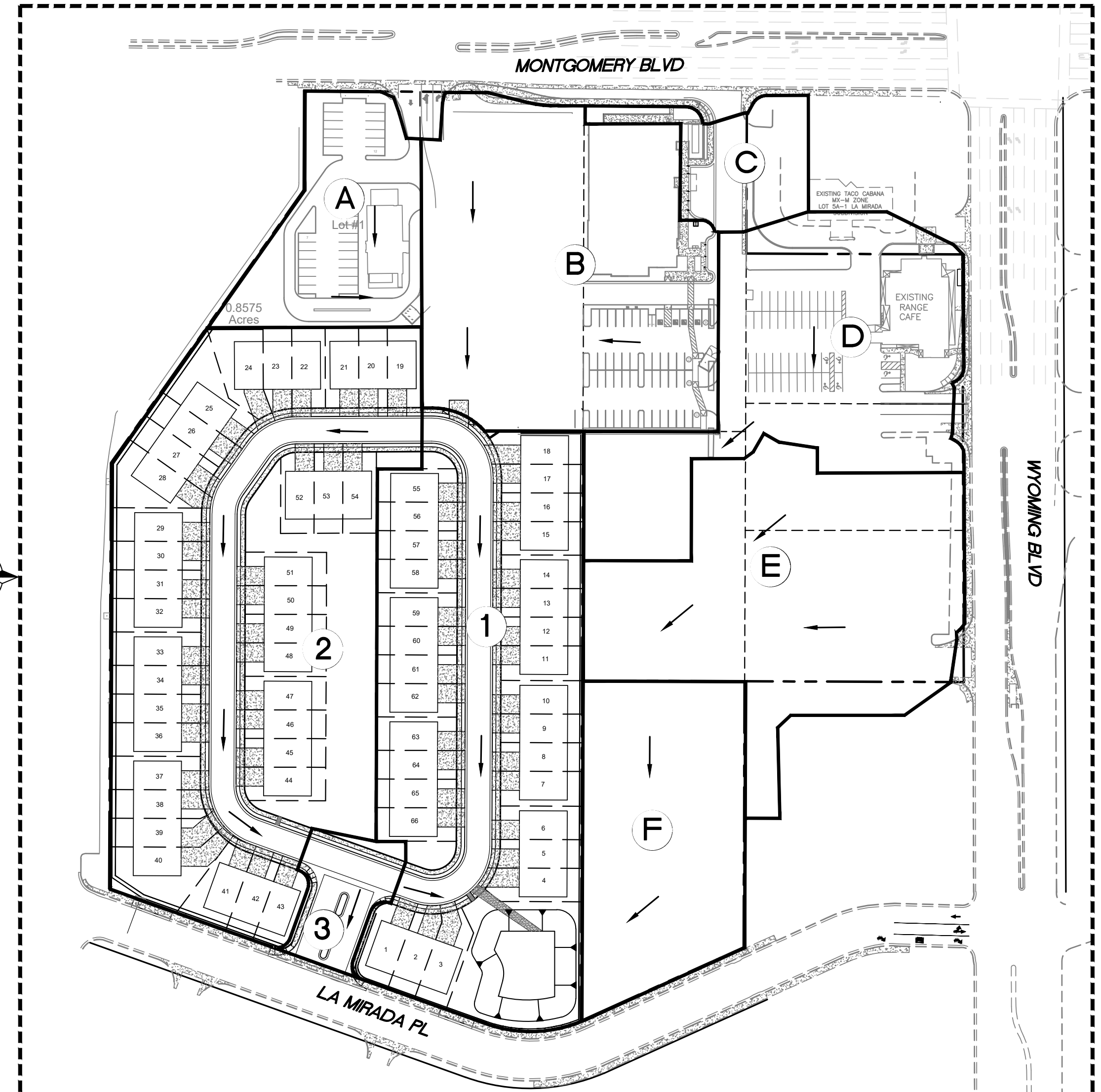
STILLBROOKS HOMES, INC.
LA MIRADA SUBDIVISION
FINAL STABILIZATION

DESIGNED BY:
K. FETTER, P.E.
DRAWN BY:
O. CHAVEZ

SHEET:
10



EXISTING BASINS



PROPOSED BASINS

EXISTING DRAINAGE:

THIS SITE IS CURRENTLY VACANT SHOPPING CENTER AND IS LOCATED ON THE SOUTHWEST CORNER OF WYOMING BOULEVARD AND MONTGOMERY BOULEVARD. THE SITE IS BOUNDED BY ROADS ON THE NORTH, SOUTH AND EAST SIDE AND A MULTIFAMILY DEVELOPMENT ON THE WEST SIDE AND CONTAINS APPROXIMATELY 15.69 ACRES. THE SITE DRAINS FROM EAST TO WEST WITH MOST OF IT DRAINING ONTO AN EXISTING DETENTION POND. A SMALL AMOUT OF FLOW ENTERS MONTGOMERY BLVD. FROM LANDSCAPED AREAS AND ENTRANCES, THE REMAINDER OF THE SITE DRAINS INTO AN EXISTING DROP INLET LOCATED AT THE SOUTHWEST ENTRANCE. ACCORDING TO AN APPROVED GRADING AND DRAINAGE PLAN (G-19/D4) COMPLETED BY JEFF MORTENSEN AND ASSOCIATES THE EXISTING POND MAY BE ELIMINATED AND ALL FLOW DISCHARGED TO THE EXISTING STORM SEWER IN HENDRIX AVENUE. THOSE IMPROVEMENTS WERE NEVER COMPLETED AND THE POND HAS REMAINED IN PLACE. BASED ON THE REVISED DRAINAGE VALUES IN THE CURRENT DPM THE TOTAL FLOW DISCHARGED FROM THIS SITE IS 68.15 CFS. THE SITE IS NOT LOCATED WITH IN A FLOOD PLAIN AS SHOWN ON THE FIRM MAP. THERE ARE NOT OFFSITE FLOWS THAT ENTER THE SITE.

PROPOSED DRAINAGE:

THE SITE IS BEING SUBDIVIDED INTO A COMMERCIAL CENTER AND A RESIDENTIAL NEIGHBORHOOD. THE RESIDENTIAL NEIGHBORHOOD IS DIVIDED INTO THREE BASINS (1-3) WHILE THE COMMERCIAL AREA IS DIVIDED INTO SIX BASINS (A-F).

RESIDENTIAL BASINS 1 AND 2 WILL DRAIN FROM NORTH TO SOUTH IN WYMONT CIRCLE AND BE COLLECTED IN PROPOSED DROP INLETS. THAT WATER WILL BE CONVEYED TO A WATER QUALITY POND LOCATED IN THE SOUTHEAST CORNER OF THE NEIGHBORHOOD. BASIN 3 CONSISTS OF THE ENTRANCE AND WILL DRAIN A SMALL AMOUNT OF FLOW TO BE COLLECTED IN DROP INLETS IN LA MIRADA. DUE TO THE GRADES BETWEEN THE NEIGHBORHOOD AND LA MIRADA THERE IS NO WAY TO CAPTURE THIS FLOW AND IT WILL FOLLOW THE SAME DRAINAGE PATTERN AS EXISTS ALONG THE STREET TODAY DISCHARGING 1.16 CFS.

COMMERCIAL BASIN "A" AND "B" WILL DRAIN SOUTH TO A PROPOSED DROP INLET LOCATED JUST NORTH OF WYMONT CIRCLE. THOSE FLOWS WILL BE CONVEYED THROUGH STORM SEWER TO THE WATER QUALITY POND. BASIN "C" WILL DISCHARGE TO A PROPOSED DROP INLET AT THE ENTRANCE ON MONTGOMERY AND DRAIN VIA STORM SEWER TO THE DROP INLET THAT CAPTURES BASINS "A" & "B". BASIN "D" WILL DRAIN TO A PROPOSED DROP INLET LOCATED NEAR THE NORTHEAST CORNER OF THE RESIDENTIAL NEIGHBORHOOD. BASIN "E"WILL DRAIN TO ANOTHER PROPOSED DROP INLET LOCATED NEAR THE MIDDLE OF THE WEST PROPERTY LINE OF THE RESIDENTIAL NEIGHBOR HOOD AND BASIN "F" WILL DRAIN TO A PROPOSED DROP INLET LOCATED NEAR THE WATER QUALITY POND. ALL OF THOSE FLOWS WILL BE CONVEYED VIAL STORM SEWER TO THE WATER QUALITY POND.

THE WATER QUALITY POND IS SIZED TO CONTAIN THE REQUIRED VOLUME FROM ALL OF THE RESIDENTIAL AND COMMERCIAL BASINS. BASED ON HE CURRENT REQUIREMENTS, THE POND WILL RETAIN A VOLUME OF 0.225 AC-FT. A WATER QUALITY OUTLET STRUCTURE WILL BE PROVIDED IN THE POND AND CONNECT TO THE EXISTING STORM SEWER LOCATED IN LA MIRADA. THE TOTAL FLOW DISCHARGED TO THE LA MIRADA STORM SEWER WILL BE 57.05 CFS WHICH IS 11.10 CFS LESS THAN WHAT IS CURRENTLY DISCHARGED TO THE SYSTEM.

ALL OF THE STORM SEWER, DROP INLETS AND WATER QUALITY POND WILL REMAIN PRIVATE AND MAINTAINED BY THE RESIDENTIAL HOA AND COMMERCIAL DEVELOPMENT AGREEMENTS.

Channel Capacity

Weir Equation:

$$Q = CLH^{3/2}$$

Q= Flow
C = 2.70
L= Length of weir
H = Height of Weir

Off Site Curb Opening

$Q = 2.70*20*0.50^{3/2}$

Q= 19.09 cfs < Q = 13.39 cfs

Pond Concrete Channel

$Q = 2.70*6*0.50^{3/2}$

Q= 5.73 cfs

Park Curb Opening

$Q = 2.70*2*0.50^{3/2}$

Q= 1.91 cfs < Q = 1.55 cfs

Weighted E Method

Existing Basins

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	100-Year Weighted E (in)	100-Year Volume (ac-ft)	100-Year Flow cfs	10-Year Weighted E (in)	10-Year Volume (ac-ft)	10-Year Flow cfs
A	114,831	2.64	0%	0	7%	0.18	0%	0.00	93%	2.45	2.460	0.540	11.47	1.549	0.340	7.09
B	314,923	7.23	0%	0	5%	0.36	0%	0.00	95%	6.87	2.494	1.503	31.74	1.575	0.949	19.69
C	178,480	4.10	0%	0	0%	0.00	0%	0.00	100%	4.10	2.580	0.881	18.40	1.640	0.560	11.51
D	57,852	1.33	0%	0	21%	0.28	0%	0.00	79%	1.05	2.219	0.246	5.41	1.367	0.151	3.25
E	9,747	0.22	0%	0	0%	0.00	100%	0.22	0%	0.00	1.090	0.020	0.71	0.520	0.010	0.38
F	7,497	0.17	0%	0	100%	0.17	0%	0.00	0%	0.00	0.860	0.012	0.43	0.340	0.005	0.18
		15.69										**3.202**	**68.15**			

Proposed Basins

Basin	Area (sf)	Area (acres)	Treatment A %	Treatment A (acres)	Treatment B %	Treatment B (acres)	Treatment C %	Treatment C (acres)	Treatment D %	Treatment D (acres)	100-Year Weighted E (in)	100-Year Volume (ac-ft)	100-Year Flow cfs	10-Year Weighted E (in)	10-Year Volume (ac-ft)	10-Year Flow cfs
A	36,215	0.83	0%	0	15%	0.12	0%	0.00	85%	0.71	2.322	0.161	3.48	1.445	0.100	2.12
B	98,174	2.25	0%	0	15%	0.34	0%	0.00	85%	1.92	2.322	0.436	9.44	1.445	0.271	5.74
C	18,240	0.42	0%	0	15%	0.06	0%	0.00	85%	0.36	2.322	0.081	1.75	1.445	0.050	1.07
D	79,808	1.83	0%	0	15%	0.27	0%	0.00	85%	1.56	2.322	0.355	7.68	1.445	0.221	4.67
E	89,758	2.06	0%	0	15%	0.31	0%	0.00	85%	1.75	2.322	0.399	8.63	1.445	0.248	5.25
F	53,725	1.23	0%	0	15%	0.19	0%	0.00	85%	1.05	2.322	0.239	5.17	1.445	0.149	3.14
1	131,235	3.01	0%	0	60%	1.81	0%	0.00	40%	1.21	1.548	0.389	9.91	0.860	0.216	5.32
2	165,562	3.80	0%	0	57%	2.17	0%	0.00	43%	1.63	1.600	0.507	12.73	0.899	0.285	6.91
Park	27,059	0.62	0%	0	100%	0.62	0%	0.00	0%	0.00	0.860	0.045	1.55	0.340	0.018	0.66
3	11,770	0.27	0%	0	10%	0.03	0%	0.00	90%	0.24	2.408	0.054	1.16	1.510	0.034	0.71
		15.71								**10.42**		**2.619**	**59.96**			

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

Excess Precipitation, E (inches)

Zone 3	100-Year	10 - Year
E_a	0.67	0.18
E_b	0.86	0.34
E_c	1.09	0.52
E_d	2.58	1.64

Peak Discharge (cfs/acre)

Zone 3	100-Year	10 - Year
Q_a	1.84	0.51
Q_b	2.49	1.07
Q_c	3.17	1.69
Q_d	4.49	2.81

Pipe Capacity

Pipe	D (in)	Slope (%)	Area (ft^2)	R	Q Provided (cfs)	Q Required (cfs)	Velocity (ft/s)
1	18	0.80	1.77	0.375	9.42	6.36	3.60
2	18	0.80	1.77	0.375	9.42	6.37	3.60
3	24	0.80	3.14	0.500	20.29	12.73	4.05
4	18	0.80	1.77	0.375	9.42	4.95	2.80
5	18	0.80	1.77	0.375	9.42	4.96	2.81
6	30	0.70	4.91	0.625	34.41	22.64	4.61
7	30	0.80	4.91	0.625	36.79	35.56	7.24
8	24	1.00	3.14	0.500	22.68	12.92	4.11
9	24	1.00	3.14	0.500	22.68	12.92	4.11
10	24	1.00	3.14	0.500	22.68	12.92	4.11
11	24	1.00	3.14	0.500	22.68	12.92	4.11
12	24	14.75	3.14	0.500	87.12	21.48	6.84
13	18	2.00	1.77	0.375	14.90	5.17	2.93
14	24	2.51	3.14	0.500	35.94	16.31	5.19
15	18	2.00	1.77	0.375	14.90	8.63	4.88
16	18	4.19	1.77	0.375	21.56	7.68	4.35
17	18	4.43	1.77	0.375	22.17	7.68	4.35
18	24	6.50	3.14	0.500	57.83	57.05	18.16

Manning's Equation:
Q = 1.49/n * A * R^(2/3) * S^(1/2)

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

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 02/08/22
BY: Renée C. Brissette
HydroTrans # G19D004

ENGINEER'S SEAL	THE WYMONT ALBUQUERQUE, NM	DRAWN BY pm
RONALD R. BOHANNAN NEW MEXICO 7868 PROFESSIONAL ENGINEER 1-27-2022	WYMONT SUBDIVISION MASTER DRAINAGE PLAN	DATE 1-27-2022
		DRAWING 2021008-GR
	TIERRA WEST, LLC 5571 MIDWAY PARK PL NE ALBUQUERQUE, NEW MEXICO 87109 (505) 858-3100 www.tierrawestllc.com	SHEET # GR-2
RONALD R. BOHANNAN P.E. #7868		JOB # 2021008